

EC 826380			PN 2597096
27MAY83			

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MAP NUMB	MAP D H   C	MAP TITLE	PART NUMBER	EC NUMBER
----- MAP -----				
Volume A1				
00XX		Miscellaneous Hardmaps		
0000	X	Map Table of Contents	4177263	842375B
0011	X	Map Descriptions	4177264	842375
01XX		System Main Entry Hardmaps		
0101	X	First System Entry MAP	4177265	842375
0105	X	Diskette CSIPL	4177266	842375
0113	X	System Reference Codes (0000 thru 19FF)	2596199	842375B
0114	X	System Reference Codes (1A00 thru 1AFF)	4177421	842375B
0115	X	System Reference Codes (1b00 thru 9FFF)	4177267	842375B
0116	X	System Reference Codes (A000 thru FFFF)	4177268	842375B
0118	X	Power Reference Codes (91 thru FF)	2596248	842375
0121	X	CSIPL Start CSP/Channel	4177269	842375
0179	X	Diskette CSIPL	4177271	842350
0190	X	Channel Error Isolation	4177272	842375
0199	X	System Entry - MDIs	4177273	839954
03XX		Intermittent & Error Log Hardmaps		
0300	X	Intermittent Introduction and Index	4177274	826487A
0301	X	CSP Intermittent Failure MAP	4177338	842350
0305	X	Intermittent Power Faults	2597069	826487
0309	X	Electrostatic Discharge (ESD) Problems	4177275	826487
0310	X	Main Storage Processor IFRL MAP 1	4177276	842375
0312	X	Main Storage Processor IFRL MAP 2	4177277	842375
0350	X	3262 Printer Intermittent MAP	4177278	826487

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0370	X		Work station Intermittent MAP	4177286	842350
0391	X		Diskette Intermittent MAP	4177339	826487
0395	X		21ED Intermittent MAP	4177270	826487
0397	X		10SR Intermittent MAP	4177340	826487
0399	X		8809 Tape Intermittent Map	2597080	842375
05XX			Power Hardmaps		
0500	X		Power Entry	4177287	839954
0501	X		Power Logic Reset	4177288	826487
0502	X		Dead Machine Entry	4177289	826487
0503	X		Power Check Entry	4177290	839954
0505	X		Cable Unseated - Base Assemblies	4177292	826487
0506	X		Cable Unseated - A2 Power	4177293	826487
0507	X		Cable Unseated - A3 Supply	4177294	839954
0508	X		Cable Unseated - Expansion	4177337	826487
0509	X		CS Light Status Entry	4177295	826487
0511	X		Power Logic Interface Problem	4177297	826487
0512	X		Base Power All UV Entry	4177298	842350
0513	X		Base Power All Levels with F2 Bad	4177299	826487
0515	X		Power Supply All UV	4177300	826487
0516	X		A2 Supply - Any UV	4177301	839954
0518	X		A2 1.7V Regulator UV	4177302	826487
0519	X		Overcurrent Isolation On 21ED drive	2596198	826487
0520	X		Overcurrent Isolation	4177303	826487
0521	X		No AC to Disk Drive A and B	4177304	826487
0522	X		No AC Voltage to Power Fan	4177305	826487
0523	X		No AC Voltage To Gate Fans	4177306	826487
0524	X		No AC To Diskette AC Motor	4177307	826487
0525	X		No AC to Disk Fan	4177308	826487
0527	X		A2 Supply - Disk Drive OC	4177309	826487
0528	X		A2 Supply - +5V Level	4177310	826487
0529	X		A2 1.7V Regulator OC	4177311	826487
0530	X		A3 Supply - All UV	4177312	839954
0531	X		A3 Supply - Any UV	4177313	842375
0532	X		A3 Supply - Any OV	4177314	842375
0533	X		A3 Supply - OC	4177315	839954
0535	X		Base Power +5V Level OC	4177317	842375
0536	X		Base Power +12V Level OC	4177318	826487
0537	X		Base Power +24V Level OC	4177319	826487
0538	X		Base Power -5V Level OC	4177320	826487

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0539	X	Base Power +8.5V or -12V Level OC	4177321	826487
0540	X	Base 1.7V Regulator OC	4177322	842375
0541	X	Base Power - All UV	4177323	842350
0542	X	Base Power +5V level UV	4177324	826487
0543	X	Base Power +12V Level UV	4177325	826487
0544	X	Base Power +24V Level UV	4177326	826487
0545	X	Base Power -5V Level UV	4177327	839954
0546	X	Base Power +8.5V or -12V Regulator UV	4177328	842350
0548	X	Base 1.7V Regulator UV	4177329	842350
0551	X	Base Power -5 Level OV	4177331	826487
0552	X	Base Power +8.5V or -12V Level OV	4177332	826487
0553	X	Base 1.7V Regulator OV	4177333	826487
0555	X	A2 Power Supply - Any OV	4177334	826487
0556	X	A2 1.7V Regulator OV	4177335	826487
0561	X	Dead Machine (CB1)	4177336	826487
0572	X	Bad Fuses or Missing CS level	4177341	842375
0574	X	Relay K1 Control Circuit	4177342	826487
0576	X	No Response To Power Key	4177343	842350
0577	X	Unit Emergency Switch Power Off	4177344	826487
0582	X	Temperature Check	4177345	826487
0584	X	Lamp Circuit MAP	4177346	842375
0588	X	Dead Machine Entry	2597086	839954
0589	X	Dead Machine (CB1) Dual Phase	2597081	826487
0590	X	All UV Expansion	2597082	826487
0591	X	Expansion Supply - Any UV Expansion	2597083	826487
0592	X	A2 Supply - Any OV Expansion	2597084	826487
0593	X	Expansion Supply - Any OC Expansion	2597085	826487
0599	X	Voltage Missing MAP	4177347	839954
11XX		Main Storage Processor Hardmaps		
1100	X	MSP Entry IPL MAP	4177348	842375
1102	X	CSP Timeout MAP	2596196	826487
1103	X	External System Bus MAP	2596200	826487
1104	X	MSP CSP IPL MAP	4177349	826487A
1105	X	MSP Unexpected Error MAP	4177350	826487A
1106	X	MSP Load Register Time Out MAP	4177351	826487A
1107	X	MSP MSAR Parity Check MAP 1	4177352	842350
1108	X	MSP MSAR Parity Check MAP 2	4177353	826487A
1109	X	MSP MSAR Parity Check MAP 3	4177354	826487A
1110	X	Cause MSAR Parity Check	4177355	826487A

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1112	X			Checks During Sense MSP Registers	4177356	826487A
1114	X			Sense Status Bytes 0, 2 and PSR MAP 3	4177357	826487A
1116	X			Sense Status Byte 2	4177358	826487
1118	X			Sense Status Byte 0 and PSR	4177359	826487
1120	X			Sense Status Byte 0, 2 and PSR MAP 1	4177360	826487
1122	X			Sense Status Byte 0, 2 and PSR MAP 2	4177361	826487A
1124	X			Load and Sense PSR MAP 1	4177362	826487A
1126	X			Load and Sense PSR MAP 2	4177363	826487
1128	X			MSP LSR Load and Sense MAP	4177364	826487A
1129	X			MSP Two Byte Sense/Load MAP	4177365	826487A
1130	X			MSP Interrupt Level 5 MAP	4177366	826487A
1131	X			MSP CCR MAP	4177367	826487
1132	X			MSP PMR and CMR Load and Sense	4177368	826487
1133	X			MSP Control Parity MAP	4177369	826487A
1134	X			Invalid Address Check	4177370	826487A
1135	X			MSP Interrupt 5 MAP	4177371	826487A
1136	X			Load and Sense MSP ATRs	4177372	842350
1137	X			MSP Time Out MAP	4177373	826487A
1140	X			MSP SVC Instruction MAP 1	4177374	826487
1142	X			MSP SVC Instruction MAP 2	4177375	826487
1144	X			MSP SVC Instruction MAP 3	4177376	826487
1146	X			MSP SVC Instruction MAP 4	4177377	842350
1148	X			MSP Load Register Instruction MAP	4177378	842350
1150	X			MSP Branch On Condition MAP	4177379	826487
1152	X			MSP Jump Backward MAP	4177380	826487
1154	X			MSP Load PMR MAP	4177381	826487
1156	X			MSP Store Register Instruction MAP	4177382	826487
1158	X			MSP Compare Logical Immediate MAP	4177383	826487
1160	X			MSP Test Bits On/Off MAP	4177384	842350
1162	X			MSP Add To Register MAP	4177385	842350
1163	X			MSP Edit Instruction MAP	4177386	826487
1164	X			MSP Performance MAP	4177387	826487
1165	X			MSP Insert and Test Character MAP	4177388	826487
1166	X			MSP Add Logical Character MAP	4177389	826487
1167	X			MSP Pact MAP	4177390	826487
1168	X			MSP Alternate Mode MAP	4177391	826487
1170	X			R/W Main Storage MAP 1	2596822	842375
1175	X			MS Parity MAP	2596216	842375
1176	X			Address Bit 6 Error	4177280	842375
1177	X			Write and Read Main Storage MAP 1	4177281	842375

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1179		X	Write and Read Main Storage MAP 3	4177392	842375
1180		X	Storage Swap MAP 3	4177283	842375
1181		X	Storage Swap MAP 2	4177394	842375
1182		X	Isolate Main Storage Error MAP 1	4177395	826487A
1183		X	Main Storage Card Select MAP	4177396	842350
1184		X	Main Storage SBME MAP	4177397	842375
1185		X	MS Multiple Bit Error MAP	4177398	842350
1186		X	Main Storage Time Out Check	4177399	826487
1187		X	Main Storage Access Time 1	4177400	842350
1188		X	Main Storage Parity Error	4177401	826487
1189		X	R/W, Byte Select MAP	2596217	842375
1190		X	Write and Read Main Storage MAP 4	4177402	842375
1191		X	Isolate Main Storage Error MAP 2	4177403	842375
1192		X	Storage Swap MAP 3	4177404	842375
1193		X	Read Buffer Always Down	4177405	826487
1194		X	Main Storage Access Time 2	4177284	842375
1195		X	Main Storage Access Time 3	4177285	842375
1197		X	MS Multiple Bit Error MAP 2	2596239	842375
1198		X	MS Address MAP	2596242	842375
1199		X	MS Data MAP	2596243	842375
17XX			Control Panel Hardmaps		
1700		X	Control Panel MAP 1	4177406	842375
1701		X	Control Panel MAP 2	4177407	842375
1702		X	Control Panel MAP 3	2597087	842375
1703		X	Control Panel MAP 4	2597088	842375
1704		X	Control Panel MAP 5	2596825	842375
30XX			Communications Hardmaps		
			Volume A2		
3000		X	Data Communications Entry (ELCA)	4233805	842375
3001		X	MLCA Controller Errors	4177409	826487
3002		X	Multiple Adaptor Error	4177410	842375
3003		X	Data Communications Entry (SLCA, MLCA)	4177411	842375
3004		X	Data Communications (MLCA) (Line 1)	4177412	826487
3005		X	Data Communications (MLCA) (Line 2)	4177413	826487
3006		X	Data Communications (MLCA) (Line 3)	4177414	826487
3007		X	Data Communications (MLCA) (Line 4)	4177415	826487
3008		X	Data Communications Error Log MAP	4177416	826487

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3010		X	Data Communications Entry MAP Line 1	4177418	826487
3011		X	Data Comm Indicator MAP (SLCA, MLCA)	4177419	839954
3012		X	Data Communications (SLCA)	2597060	826487
3014		X	Autocall Interface Chart Line 1-4	4177420	826487
3020		X	EIA/CCITT Interface Chart Line 1-4	4177422	826487
3021		X	EIA On Line Test	4177423	826487
3023		X	DDSA Remote Loop-Back Test	4177424	826487
3024		X	DDSA Interface Chart MLCA Line 1	4177425	826487
3025		X	DDSA Interface Chart Line 2	4177426	826487
3026		X	DDSA Interface Chart Line 3	4177427	826487
3027		X	DDSA Interface Chart Line 4	4177428	826487
3028		X	DDSA Online Test	4177429	826487
3029		X	DDSA Interface Chart SLCA	2597061	826487
3031		X	1200 I.M. Auto Answer SLCA	2597062	826487
3032		X	1200 I.M. Interface Chart SLCA	2597063	826487
3033		X	1200 I.M. (PSN) SLCA	2597064	826487
3034		X	1200 I.M. Answer Tone Line 4	2597065	826487
3035		X	1200 I.M. No Answer SLCA	2597066	826487
3036		X	Data Comm Indicator MAP (ELCA)	4233806	842375
3037		X	EIA/CCITT and Autocall Interface Chart ELCA	4233807	842375
3038		X	DDSA Interface Chart ELCA	4233808	842375
3039		X	X.21 Interface Chart ELCA	4233809	842375
3040		X	Data Comm Error MAP ELCA	4233810	842375
3049		X	V.35 Interface Chart (ELCA)	4233819	839954
3050		X	1200 I.M. Auto Answer Line 1	2596036	826487
3051		X	1200 I.M. Auto Answer Line 2	2596037	826487
3052		X	1200 I.M. Auto Answer Line 3	2596038	826487
3053		X	1200 I.M. Auto Answer Line 4	2596039	826487
3054		X	1200 I.M. Online Test	2596040	826487
3055		X	1200 I.M. Interface Chart MLCA Line 1	2596041	826487
3056		X	1200 I.M. Interface Chart Line 2	2596042	826487
3057		X	1200 I.M. Interface Chart Line 3	2596043	826487
3058		X	1200 I.M. Interface Chart Line 4	2596044	826487
3059		X	1200 I.M. (PSN) line 1	2596045	826487
3060		X	1200 I.M. (PSN) line 2	2596046	826487
3061		X	1200 I.M. (PSN) line 3	2596047	826487
3062		X	1200 I.M. (PSN) line 4	2506048	826487
3063		X	1200 IM Answer Tone MLCA Line 1	2596049	826487

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3064	X		1200 IM Answer Tone Line 2	2596050	826487
3065	X		1200 IM Answer Tone Line 3	2596051	826487
3066	X		1200 IM Answer Tone Line 4	2596052	826487
3067	X		1200 IM No Answer MLCA Line 1	2596053	826487
3068	X		1200 IM No Answer Line 2	2596054	826487
3069	X		1200 IM No Answer Line 3	2596055	826487
3070	X		1200 IM No Answer Line 4	2596056	826487
3073	X		X.21 I.M. Interface Chart SLCA	2597067	839954
3074	X		X.21 I.M. Interface Chart MLCA Line 1	2596057	826487
3075	X		X.21 I.M. Interface Chart Line 2	2596058	826487
3076	X		X.21 I.M. Interface Chart Line 3	2596059	826487
3077	X		X.21 I.M. Interface Chart Line 4	2596060	826487
3078	X		X.21 Online Test	2596061	826487
3080	X		V.35 Interface Chart Line 4	2596062	826487
3090	X		ELCA Online Tests	4233829	842375
3091	X		Communications Controller Error MAP	2596294	839954
40XX			1255 MCR Softmaps		
4001	X		1255 Channel Interface Test 1		
4003	X		1255 Channel Interface Test 2		
4004	X		1255 Ctrlr Command Latch Test		
4005	X		1255 Ctrlr Register Test		
4007	X		1255 Ctrlr PCR Test		
4009	X		1255 Ctrlr Storage Test		
4011	X		1255 Ctrlr INT, LTO, & BAL Test		
4013	X		1255 Ctrlr Instruction Test 1		
4015	X		1255 Ctrlr Instruction Test 2		
4017	X		1255 Driver/Receiver/Cable Test1		
4019	X		1255 Driver/Receiver/Cable Test2		
4021	X		1255 MCR A4 Logic Board Test 1		
4023	X		1255 MCR A4 Logic Board Test 2		
4031	X		1255 Channel Interface Failure		
4033	X		1255 Ctrlr Datapath Failure Test		
4035	X		1255 Ctrlr Data Bus Error Test 1		
4037	X		1255 Ctrlr Data Bus Error Test 2		
4041	X		1255 Controller & Memory Test		
4051	X		1255 Dr/Rec Failure Test 1		
4053	X		1255 Dr/Rec Failure Test 2		
4055	X		1255 Dr/Rec/Cbl Failure In T40B1		
4057	X		1255 Dr/Rec/Cbl All Wraps Fail		

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MAP NUMB	D	H	C	MAP TITLE	PART NUMBER	EC NUMBER
4058	X			1255 CPU Stopped Wrap Error		
4059	X			1255 Start Reset Wrap Error		
4060	X			1255 T-R Valid Wrap Error Test		
4061	X			1255 Acct No. Valid Wrap Error		
4062	X			1255 I-0 Ready Wrap Error Test		
4063	X			1255 Ext I-0 Light Wrap Error		
4065	X			1255 Dr/Rec/Cbl Failure in T40B2		
4066	X			1255 Read Call Wrap Error Test		
4067	X			1255 Doc Under Rd Hd Wrap Error		
4068	X			1255 Doc To Be Read Wrap Error		
4069	X			1255 Engage Wrap Error Test		
4070	X			1255 Dr/Rec/Cbl Failure in T40B4		
4071	X			1255 Disengage Wrap Error Test		
4072	X			1255 Auto Sel Wrap Error Test		
4073	X			1255 Ser No Valid Wrap Error		
4074	X			1255 Dr/Rec/Cbl Failure in T40B5		
4075	X			1255 Service Resp Wrap Error		
4076	X			1255 Amt Fld Valid Wrap Error		
4077	X			1255 Proc Ctrl Vld Wrap Error		
4078	X			1255 I/O Disconnect Wrap Error		
4079	X			1255 Stacker 0 Wrap Error Test		
4080	X			1255 Stacker 1 Wrap Error Test		
4081	X			1255 Stacker 2 Wrap Error Test		
4082	X			1255 Stacker 3 Wrap Error Test		
4083	X			1255 Stacker 4 Wrap Error Test		
4084	X			1255 Stacker 5 Wrap Error Test		
4085	X			1255 Stacker 6 Wrap Error Test		
4086	X			1255 Stacker 7 Wrap Error Test		
4087	X			1255 Stacker 8 Wrap Error Test		
4088	X			1255 Stacker 9 Wrap Error Test		
4089	X			1255 Dr/Rec/Cbl Failure in T40C7		
4090	X			1255 Stacker R Wrap Error Test		
4091	X			1255 Sorter Stopped Wrap Error		
4092	X			1255 Fld 6 Vld Wrap Error Test		
4093	X			1255 Stacker A Wrap Error Test		
4094	X			1255 Stacker Bit 0-3 Failure		
4095	X			1255 MCR Init Error Test 1		
4096	X			1255 MCR Init Error Test 2		
4097	X			1255 MCR Feed Error Test		
4098	X			1255 MCR Char Read Error Test		

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4099	X		1255 MCR Check Read Error Test		
41XX			1255 MCR Hardmaps		
4100	X		1255-MCR Entry MAP	2597000	839954
4101	X		Adapter Reset	2597001	826487
4102	X		Controller Load	2597002	826487
4103	X		Single Cycle	2597003	826487
4104	X		Controller Reset	2597004	826487
4106	X		Data Bus Wrap Bit 0	2597005	826487
4107	X		Data Bus Wrap Bit 1	2597006	826487
4108	X		Data Bus Wrap Bit 2	2597007	826487
4109	X		Data Bus Wrap Bit 3	2597008	826487
4110	X		Data Bus Wrap Bit 4	2597009	826487
4111	X		Data Bus Wrap Bit 5	2597010	826487
4112	X		Data Bus Wrap Bit 6	2597011	826487
4113	X		Data Bus Wrap Bit 7	2597012	826487
4114	X		Data Bus Wrap Bit P	2597013	826487
4115	X		Data Bus Wrap Multi Bit Failure	2597014	826487
4116	X		Storage Address Test Failure	2597015	826487
4117	X		Storage Test Failure	2597016	826487
4118	X		Controller SAR,IAR	2597017	826487
4122	X		Reg/Aux Reg Selection	2597018	826487
4125	X		Controller ALU Zero Ind	2597019	826487
4126	X		Controller ALU Non-Zero Ind	2597020	826487
4127	X		Controller ALU Carry Ind	2597021	826487
4131	X		1255 Controller Is Stopped	2597022	826487
4132	X		Transit Routing FLD Valid	2597023	826487
4133	X		Account Number Field Valid	2597024	826487
4134	X		I-0 Ready	2597025	826487
4135	X		External I-0 Light	2597026	826487
4136	X		Read Call	2597027	826487
4137	X		Document Under Read Head	2597028	826487
4138	X		Document To Be Read	2597029	826487
4139	X		Engage	2597030	826487
4140	X		Field Seven Valid	2597031	826487
4141	X		Disengage	2597032	826487
4142	X		Auto Select	2597033	826487
4143	X		Serial Number FLD Valid	2597034	826487
4144	X		Service Response	2597035	826487
4145	X		Amount Field Valid	2597036	826487
4146	X		Process Control FLD Valid	2597037	826487

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4147		X		2597038	826487
4148		X		2597039	826487
4149		X		2597040	826487
4150		X		2597041	826487
4151		X		2597042	826487
4152		X		2597043	826487
4153		X		2597044	826487
4154		X		2597045	826487
4155		X		2597046	826487
4156		X		2597047	826487
4157		X		2597048	826487
4158		X		2597049	826487
4159		X		2597050	826487
4160		X		2597051	826487
4161		X		2597052	826487
4162		X		2597053	826487
4163		X		2597054	826487
4164		X		2597055	826487
4165		X		2597056	826487
4171		X		2597057	826487
50XX					
5000		X		2596063	826487
5001		X		2596064	826487
5002		X		2596065	826487
5004		X		2596066	826487
5006		X		2596067	826487
5008		X		2596068	826487
5010		X		2596069	826487
5012		X		2596070	826487
5014		X		2596071	826487
5016		X		2596072	826487
5018		X		2596073	826487
5020		X		2596074	826487
5022		X		2596075	826487
5024		X		2596076	826487
5026		X		2596077	826487
5028		X		2596078	826487
5030		X		2596079	826487
5032		X		2596080	826487

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MAP NUMB	D 	H 	C 	MAP TITLE	PART NUMBER	EC NUMBER
5034		X		Hammer Sample Test MAP	2596081	826487
5036		X		Cable Interlock MAP	2596082	826487
5038		X		Wrap Return Bit Error MAP	2596083	826487
5040		X		Cable Test MAP	2596084	826487
5042		X		Thermal and Carriage Pedestal Check	2596085	826487
5044		X		Printer Data Protect Error MAP	2596086	826487
61XX		X		Controller Softmaps		
6101		X		Controller Good Machine Path MAP		
6102		X		6102 Controller Call MAP		
6105		X		6105 Controller Coupler Call MA		
65XX		X		DSA Softmaps		
65FF		X		Introductory MAP		
6501		X		DSA Good Machine Path 1		
6502		X		DSA Good Machine Path 2		
70XX				Work station Hardmaps		
7001		X		Work station Subsystem Entry Point	2596087	842350
81XX				Communications Softmaps		
8101		X		8101 Comm MLCA Control MAP 1		
8102		X		8102 Comm MLCA Control MAP 2		
8103		X		8103 Comm SLCA Control MAP 1		
8106		X		8106 Comm Transparent TU Call MAP		
8107		X		8107 Comm Adapter TU Call MAP		
8108		X		8108 Comm Indicator Check MAP		
8110		X		8110 Comm External Modem Wrap (38LS)		
8111		X		8111 Comm EIA End Of Cable Wrap		
8112		X		8112 Comm EIA Cable Tower Wrap		
8113		X		8113 Comm EIA Cable Socket Wrap		
8114		X		8114 Comm Adapter VTL Wrap		
8116		X		8116 Comm External Modem Wrap (LPDA)		
8117		X		8117 Comm DDSA Int/Cable Wrap		
8118		X		8118 Comm DDSA Cable Tower Wrap		
8119		X		8119 Comm DDSA Cable Socket Wrap		
8120		X		8120 Comm DDSA VTL Wrap		
8125		X		8125 Comm Acall End Of Cable Wrap		
8131		X		8131 Comm Transparent Isolation E1		

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MAP NUMB	DIH  C	MAP TITLE	PART NUMBER	EC NUMBER
8132	X	8132 Comm Transparent Isolation E2		
8133	X	8133 Comm Transparent Isolation E3		
8136	X	8136 Comm 1200 Int/Cable Wrap (LL)		
8137	X	8137 Comm 1200 (LL) Cable Tower Wrap		
8138	X	8138 Comm 1200 (LL) Cable Socket Wrap		
8139	X	8139 Comm 1200 VTL Wrap		
8140	X	8140 Comm X.21 Cab Twr Wrp (SW, No DCE)		
8141	X	8141 Comm X.21 Int/DCE Wrap (sw)		
8142	X	8142 Comm X.21 Cab Twr Wrp (LL, No DCE)		
8143	X	8143 Comm X.21 Cab Twr Wrp (LL, DCE)		
8144	X	8144 Comm X.21 Rcve Clock Error		
8151	X	Comm V.35 Ext Cab/DCE Wrap		
8161	X	8161 Comm EIA (X.25) Duplex Wrap		
8162	X	8162 Comm X.21 (X.25) Duplex Wrap		
8152	X	Comm V.35 Cable Tower Wrap		
93XX		72MD Disk Hardmaps		
9300	X	72MD Autoloader Bed Errors	2596190	826487
9301	X	72MD Autoloader Picker Errors	2596191	826487
95XX		21ED Disk Entry Hardmaps		
9500	X	21ED Disk Entry MAP	4177279	842375
97XX		10SR Hardmaps		
9700	X	10SR Disk Entry MAP	2596192	842375
9730	X	10SR Hardmap	2596193	842375
9750	X	10SR Power MAP	4177393	826487
99XX		8809 Tape Attachment Hardmaps		
9900	X	8809 Attachment Entry MAP	2596245	842375
9905	X	8809 Attachment (Swap DSA Cards)	2597068	842375
9910	X	8809 Attachment (Cable Wrap)	2596244	842375
A2XX		21ED File Attachment Softmaps		
A201	X	21ED MAP 01		
A220	X	21ED MAP 20		
A221	X	21ED MAP 21		
A222	X	21ED MAP 22		
A223	X	21ED MAP 23		

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MAP NUMB	D	H	C	MAP TITLE	PART NUMBER	EC NUMBER
A224	X			21ED MAP 24		
A225	X			21ED MAP 25		
A226	X			21ED MAP 26		
A227	X			21ED MAP 27		
A228	X			21ED MAP 28		
A229	X			21ED MAP 29		
A230	X			21ED MAP 30		
A231	X			21ED MAP 31		
A233	X			21ED MAP 33		
A234	X			21ED MAP 34		
A235	X			21ED MAP 35		
A236	X			21ED MAP 36		
A237	X			21ED MAP 37		
A3XX				10SR Adapter Softmaps		
A301	X			Good Machine Path MAP 1		
A302	X			Good Machine Path MAP 2		
A310	X			TA301 Error Isolation MAP		
A311	X			TA302 Error Isolation MAP 1		
A312	X			TA302 Error Isolation MAP 2		
A313	X			TA305 Error Isolation MAP		
A314	X			TA306 Error Isolation MAP		
A315	X			TA307 Error Isolation MAP		
A319	X			Cable Continuity Isolation MAP		
A320	X			TA312 Error Isolation MAP 1		
A321	X			TA311 Error Isolation MAP 1		
A322	X			TA312 Error Isolation MAP 2		
A323	X			TA313 Error Isolation MAP		
A330	X			Good Machine Path		
A331	X			Select Fix MAP 2		
A332	X			Select Fix MAP 1		
A333	X			Changing TU Results		
A335	X			Interlock/Motor Path Part 1		
A336	X			Motor Stopped		
A339	X			Servo Probe MAP		
A340	X			Read Probe MAP 2		
A341	X			Write Probe MAP		
A344	X			Fix MAP B1 Part 1		
A345	X			Servo Clock		
A346	X			Control Bus Part 1		

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MAP	DIH	MAP TITLE	PART NUMBER	EC NUMBER
A347	X	Tag Parity		
A348	X	Write Tests		
A349	X	Read Tests		
A350	X	VCM Driver Assembly Part 1		
A351	X	Read Probe MAP 1		
A355	X	Fix MAP A1		
A357	X	Guard Band Early		
A358	X	Guard Band Late		
A359	X	Guard Band Pulsing		
A360	X	Fix MAP B1 Part 2		
A361	X	Fix MAP B1 Part 3		
A362	X	Fix MAP B1 Part 4		
A363	X	Fix MAP B1 Part 5		
A370	X	Interlock/Motor Path Part 2		
A372	X	Control Bus Part 2		
A373	X	VCM Driver Assembly Part 2		
A380	X	Fix MAP C1 Part 1		
A381	X	Fix MAP C1 Part 2		
A382	X	Fix MAP C1 Part 3		
B1XX		8809 Tape Adapter Softmaps		
B101	X	Data Storage/8809 Tape Entry		
B102	X	8809 Adapter - Good Machine Path		
B103	X	8809 Adapter - Good Machine Path		
B104	X	8809 Adapter - Interface Entry		
B105	X	8809 Adapter - Interface Test 1		
B106	X	8809 Adapter - Interface Test 2		
B107	X	8809 Adapter - Interface Test 3		
B108	X	8809 Adapter - Interface Test 3		
B109	X	8809 Adapter - Interface Test 5		
B110	X	8809 Adapter - Interface Test 6		
D2XX		Diskette Softmaps		
D201	X	DLC Bus and Configuration Check		
D202	X	72MD Autoloader Interface and Command		
D203	X	51TD Diskette Seek and Read Tests		
D204	X	51TD Write Tests		
D205	X	72MD Seek and Read Tests		
D206	X	72MD Diskette Write Tests		

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---- MAP -----				PART	EC
MAP	D	H		NUMBER	NUMBER
NUMB	C	MAP TITLE			
-----+-----					
D207	X		51TD Head Load and Read Loop Tests		
D208	X		51TD Diskette Write Loop Tests		
D209	X		72MD Head Load and Read Loop Tests		
D210	X		72MD Diskette Write Loop Tests		
E2XX			3262 Printer Softmaps		
E201	X		3262 Channel Interface Test		
E253	X		3262 Controller Instruction Test 1		
E255	X		3262 Controller Instruction Test 2		
E257	X		3262 Printer Console Lamp Test		
E259	X		3262 Printer Interface Test 1		
E261	X		3262 Printer Interface Test 2		
E263	X		3262 Functional Printing Test		
E265	X		3262 Printer Control Switch Test		
E267	X		3262 Printer Console Switch Test		
E269	X		3262 Status Error Decode 1		
E271	X		3262 Status Error Decode 2		
E273	X		3262 State Sequencer Test		
E275	X		3262 Console Sw/Int Failure Test		
E277	X		3262 Printer Interface Failure 1		
E279	X		3262 Printer Interface Failure 2		
E281	X		3262 Printer Interface FAilure 3		
E283	X		3262 Printer Interface Failure 4		
E285	X		3262 Printer Interface Failure 5		
E287	X		3262 Printer Interface Failure 6		
E289	X		3262 Printer Interface Failure 7		
E295	X		3262 Carriage Failure Test		
E297	X		3262 Belt Interface Failure Test		

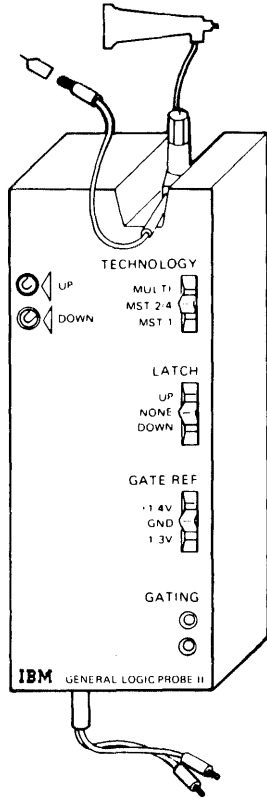
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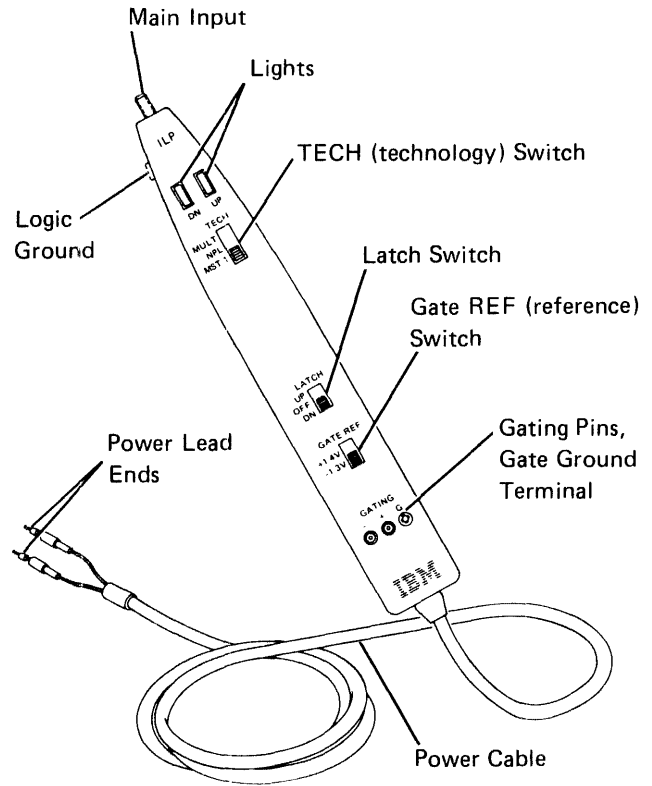
MAP 0000-15



### General Logic Probe II



### Integrated Logic Probe



### Logic Probe Power Sources

	POWER (red lead)	GROUND (black lead)
5360 Logic Gate	any D03 pin (card sockets C through T)	any D08 pin
10SR Disk Logic Gate	any D03 pin	any D08 pin

**MAP Descriptions**  
**5360 Systems Unit**

MAP 0011-1

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MAP NUMBER	MDI MAP	MAP DESCRIPTION
01XX		System Main Entry MAPs
0101		This MAP is the entry point for all S/36 MAPs.
0105		This MAP is part of the good machine path through the system entry MAPs. CS IPL from the diskette to load DCP. If that fails, then CS IPL from disk is attempted to load SSP.
0113		This MAP contains the system reference codes 0000 through 19FF. Any code which is not listed in 0113, MAP 0114, MAP 0115, MAP 0116 or MAP 0118 is not a valid reference code.
0114		This MAP contains the system reference codes 1A00 through 1AFF. Any code which is not listed in MAP 0113, MAP 0114, MAP 0115, MAP 0116 or MAP 0118 is not a valid reference code.
0115		This MAP contains the system reference codes 1b00 through 9FFF. Any code not listed in this MAP, MAP 0113, MAP 0114, MAP 0116 or MAP 0118 are not valid.
0116		This MAP contains the system reference codes A000 through FFFF. Any code not listed in this MAP, MAP 0113, 0114, 0115 or 0118 are not valid.
0118		This MAP is a quick fix MAP. You have the option of replacing the FRUs in order of probability specified by the power reference codes or in proceeding with the MAP reference provided to reduce the number of probable FRUs.
0121		This MAP checks basic CSP functions to determine if voltage or the CSP is causing CS IPL start failures.
0179		This MAP instructs the CE/CSR to run the drive test diskette and MDI tests for the diskette.
0190		This MAP will remove all I/O adapters that interface to the channel bus that are not required for IPL.

**MAP Descriptions**  
**5360 Systems Unit**

MAP 0011-2

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0199			This MAP supplies a MAP index to run all the MDI MAPs in the system. It also has a list of other diagnostic tests that can be run to aid in isolating system problems.
03XX			Intermittent & Error Log MAPs
0300			Intermittent introduction and index.
0301			This MAP points to FRU's based on CSP proc error byte, ECC error byte, channel error byte and status bytes 4 and 5 in the ERAP display. This MAP should only be used after MAP 0113, 0114, 0115 and 0116 is used to translate the system reference code.
0305			
0309			Electrostatic discharge checkout procedure.
0310			This MAP attempts to find intermittent errors in the main storage and main storage processor.
0312			This MAP points to FRU's based on status bytes 4 and 5 in the ERAP MSP display. This MAP should only be used after MAP 0113 is used to translate the system reference code.
0350			This MAP provides information for fixing an intermittent 3262 printer problem.
0370			Work station maintenance strategy for detecting intermittent failures.
0391			This is this diskette intermittent failure MAP. This MAP will use the diskette MIM and ERAP to identify action.
0395			This is this 21ED intermittent failure and 21ED system reference code MAP.
0397			This is this 10SR intermittent failure and 10SR system reference code MAP.

**MAP Descriptions**  
**5360 Systems Unit**

MAP 0011-3

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0399	8809 Tape Intermittent Map
05XX	System Power MAPs
0500	This MAP determines the type of power failure.
0501	This MAP locates the source of bad information after the logic has been reset.
0502	This MAP checks the AC and DC fuses, CB1 and other causes of a dead machine.
0503	This MAP displays the power check condition.
0505	This MAP guides the CE/CSR to the base assemblies which shows a cable unseated condition.
0506	This MAP guides the CE/CSR to the A2 power which shows a cable unseated condition.
0507	This MAP guides the CE/CSR to the A3 power supply with built-in 1.7-volt regulator and the A3 power supply with separate 1.7-volt regulator/preload assembly which shows a Cable Unseated condition.
0508	This MAP guides the CE/CSR to the Cable Unseated condition.
0509	This MAP determines the cause of the CS light not on.
0511	This MAP separates AC, DC and signal problems.
0512	This MAP determines if the cause of the failure is in the AC box, controller, or assemblies.
0513	This MAP locates a failing FRU in the base power when fuse F2 is bad.
0515	This MAP locates the failing FRU for the A2 power supply.
0516	This MAP locates the failing FRU for the A2 power supply.

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MAP 0011-3

**MAP Descriptions**

MAP 0011-4

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- 0518 | | This MAP locates the failing FRU causing a UV on the A2 1.7V regulator.
- 0519 | | This MAP isolates a FRU with a short circuit in the 21ED file.
- 0520 | | This MAP isolates a FRU with a short circuit.
- 0521 | | This MAP leads to the failing FRU that caused the no AC to drive symptom.
- 0522 | | This MAP leads the CE/CSR to the failing FRU that caused the power fan not to turn.
- 0523 | | This MAP leads the CE/CSR to the failing FRU that caused the fan failure.
- 0524 | | This MAP leads the CE/CSR to the failing FRU that caused AC to be missing at diskette drive.
- 0525 | | This MAP leads the CE/CSR to the failing FRU that caused the fan failure.
- 0527 | | This MAP locates the failing FRU for the A2 power supply.
- 0528 | | This MAP locates the failing FRU for the A2 power supply.
- 0529 | | This MAP locates the cause of the OC condition. The A2 1.7V regulator has an overcurrent condition.
- 0530 | | This MAP locates the failing FRU for the A3 power supply with built-in 1.7-volt regulator and the A3 power supply with separate 1.7-volt regulator/preload assembly.
- 0531 | | This MAP locates the failing FRU for the A3 power supply with built-in 1.7-volt regulator and the A3 power supply with separate 1.7-volt regulator/preload assembly.
- 0532 | | This MAP locates the failing FRU for the A3 power supply with built-in 1.7-volt regulator and the A3

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**MAP Descriptions**  
**5360 Systems Unit**

MAP 0011-5

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- power supply with separate 1.7-volt regulator/preload assembly.
- 0533 | This MAP locates the failing FRU for the A3 power supply with built-in 1.7-volt regulator and the A3 power supply with separate 1.7-volt regulator/preload assembly.
- 0535 | This MAP locates the cause of the 0C condition.
- 0536 | This MAP locates the cause of the 0C condition.
- 0537 | This MAP locates the cause of the 0C condition.
- 0538 | This MAP locates the cause of the 0C condition.
- 0539 | This MAP locates the cause of the 0C condition.
- 0540 | This MAP locates the cause of the 0C condition.
- 0541 | This MAP locates a failing FRU or goes to another MAP.
- 0542 | This MAP locates the area of failure in the base power.
- 0543 | This MAP locates a failing FRU in the base power.
- 0544 | This MAP locates a failing FRU in the base power.
- 0545 | This MAP locates a failing FRU in the base power.
- 0546 | This MAP locates a failing FRU in the base power.
- 0548 | This MAP locates the failing FRU in the base power.
- 0551 | This MAP locates the cause of the 0V condition.
- 0552 | This MAP locates the cause of the 0V condition.
- 0553 | This MAP locates the cause of the 0V condition.
- 0555 | This MAP locates the failing FRU for the A2 power supply.
- 0556 | This MAP locates the cause of the 0V condition.

**MAP Descriptions**

MAP 0011-6

**5360 Systems Unit**

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- 0561 | This MAP leads to the failing FRU (inside the AC box) that caused the dead machine (CB1).
- 0572 | This MAP finds the failing FRU which causes a DC voltage fuse to be bad or a control supply voltage to be missing.
- 0574 | This MAP checks the contactor control line for an open before assuming the module is bad.
- 0576 | This MAP isolates the cause of no response to the Power key.
- 0577 | This MAP checks for a short circuit.
- 0582 | This MAP verifies the thermal switches.
- 0584 | This MAP verifies lamp circuits.
- 0588 | This MAP checks the AC and DC fuses, CB1 and other causes of a dead machine.
- 0589 | This MAP leads to the failing FRU (inside the AC box) that caused the dead machine (CB1).
- 0590 | This MAP locates the failing FRU for the Expansion Power Supply.
- 0591 | This MAP locates the failing FRU for the Expansion Power Supply.
- 0592 | This MAP locates the failing FRU for the Expansion Power Supply.
- 0593 | This MAP locates the failing FRU for the Expansion Power Supply.
- 0599 | This MAP is used when the symptom is a missing voltage and the system does not power down with a power check. This MAP will isolate the missing voltage between the power supply, the DC distribution cables and the logic boards.

**MAP Descriptions**  
**5360 Systems Unit**

MAP 0011-7

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11XX	Main Storage Processor MAPs
1100	This MAP instructs the CE/CSR to loop on the IPL third load diagnostics. If that fails to find an error, the CE/CSR is instructed to run the IPL diagnostics.
1102	A CSP timeout error has occurred. This can be caused by cards A-A1N2, A-A1P2 or A-A1Q2.
1103	The CSP is attempting to load different addresses into the MSAR and is getting an MSP checks in TU 81 for some addresses used. This could be caused by the MSP wrongly executing the CSP register load storage and causing storage checks or it could be caused by the problem with the external system bus.
1104	The MSP prevents the CSP IPL diagnostics from running because the MSP wrongly gates data to the external system bus. The first steps of this MAP verify clock signals to ensure the MSP is not hung because of missing clocks.
1105	An unexpected error occurred while running the MSP diagnostics. There are several lines that can cause the MSP diagnostics to fail.
1106	The CSP is attempting to load different addresses into the MSAR and is getting a time out check in TU 2080.
1107	The CSP is attempting to load different addresses into the MSAR and is getting an MSP check in TU 2080 or 2081 for some addresses used. This could be caused by the MSP wrongly executing the CSP register load as a storage access and causing storage checks. Storage is not initialized now.
1108	The CSP is attempting to load different addresses into the MSAR and is getting an MSP check in TU 2080 or 2081 for most addresses used. The error is not caused by a data bus.
1109	In TU 2080 the CSP is attempting to load different addresses into the MSAR and gets an MSP parity check for some addresses used. This results if the MSP

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MAP 0011-7



- |         |  |
|---------|--|
| control | decodes that a load of an illegal register is attempted and the load operation C2 clock is not extended. |
|---------|--|
- |      |   |
|------|---|
| 1110 | The CSP does not cause an MSP check if loading MSP registers using addresses with wrong parity in TU T2082. |
|------|---|
- |      |  |
|------|--|
| 1112 | The CSP gets an SDR parity check while sensing status bytes 0 or 2 or the PSR in TU 2071. This MAP interprets the result bytes of TU 2071 to determine which bit in the flow of data from the MSP control card to the MSP data flow card is not correct. |
|------|--|
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|------|--|
| 1114 | A check other than an SDR parity check occurred when sensing status bytes 0,2 or the program status register after a reset in TU 2071. |
|------|--|
- |      |  |
|------|--|
| 1116 | In TU 2071 the CSP gets the wrong results sensing status byte 2 after a reset. The error could be that this status byte is not addressed correctly or that some of the status bits passed are not correct. |
|------|--|
- |      |   |
|------|---|
| 1118 | In TU 2071 the CSP gets the wrong results when sensing status byte 0 and the program status register after a reset. |
|------|---|
- |      |  |
|------|--|
| 1120 | The CSP gets the wrong results when sensing status byte 0 or 2 and the program status register after a reset in TU 2071. |
|------|--|
- |      |  |
|------|--|
| 1122 | The CSP receives the wrong results when sensing status bytes 0, 2 and the program status register after a reset in TU 2071. This is the first MSP register sense. The status bytes are addressed by the op reg. The status bytes are placed on the x gate control, y gate control and ALU control lines are passed from the MSP control card to the MSP data flow card. The MSP control card instructs the data flow card to pass the data to the external system bus using control lines. |
|------|--|
- |      |   |
|------|---|
| 1124 | The CSP loads different data patterns into the program status register and senses the program status register in TU 2072. None of the senses are correct. This is |
|------|---|

- the first register load. The lines that the MSP uses to determine a load or a sense will be probed in this MAP.
- 1126 | The CSP loads various data patterns into the program status register and senses the program status register in TU 2072. Some the the patterns fail. The data is passed from the MSP data flow card to the control card through the q register.
- 1128 | The CSP gets the wrong results when loading and sensing the MSP LSR in TU 2073.
- 1129 | The CSP is not getting the correct results when doing two byte loads and senses of the MSP LSR in TU 2088.
- 1130 | In TU 2064 an interrupt on level 5 from the MSP is not occurring.
- 1131 | In TU T2070 the CCR is not loaded or sensed correctly.
- 1132 | The CSP cannot load and sense the MSP registers, PMR and CMR in TU T2075. There could be an address error or an error in these registers, which are in the A-A1Q2 card.
- 1133 | In TU T2060 a control parity check is not caused by loading status byte 1. The check is verified by sensing status byte 2.
- 1134 | The CSP attempts to cause main storage invalid address checks in TU T2076. Either an invalid address check did not occur if it should have or it occurred if it should not. The error may be that the MSP performs a register load instead of a storage write, that the wrong address translation register is used for the storage write, or that the invalid address check logic on the MSP data flow is failing.
- 1135 | In TU T2064 an interrupt from the MSP is not reset or a machine check occurs while attempting to reset the interrupt request.
- 1136 | The CSP loads and senses the MSP address translation

registers in TU T2077. This test failed. A possible address error will be tested.

1137 | In TU T2069 a CSP time out check occurred during a write or read of main storage. This occurs if the MSP control or data flow card lines fail to indicate a storage read or write correctly, but the time out period is so long that probing cannot be done.

1140 | In TU T2020 the MSP fails to execute an SVC instruction correctly if using the ATR group 0 address translation.

1142 | In TU T2020 the MSP fails to execute the second SVC instruction correctly if using the address translation registers group 1 address translation.

1144 | In TU T2020 the MSP attempts to execute the first instruction, an SVC, using a PACT register. During the second storage read the MSP got FF from main storage.

1146 | In TU T2020 the MSP fails to correctly execute the first instruction, an SVC, using a PACT register.

1148 | In TU T2025 the MSP fails to execute the load register instruction correctly. This is the first one operand instruction to be executed.

1150 | In TU T2021 the MSP fails to execute the branch on condition instruction correctly.

1152 | In TU T2023 the MSP fails to execute the jump backward instruction correctly.

1154 | In TU T2024 the MSP fails to execute the load program mode register instruction correctly.

1156 | In TU T2026 the MSP fails to execute the store register instruction correctly. This is the first instruction that writes main storage to be tested.

1158 | In TU T2027 the MSP fails to execute the compare logical immediate instruction correctly. In this instruction the ALU is used to compare two bytes.

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- 1160 | | In TU T2031 the MSP fails to correctly execute a test bits on or test bits off instruction.
- 1162 | | In TU 2032 the MSP fails to execute the add to register instruction correctly. TU 2082 is used to verify q register decodes.
- 1163 | | In TU T2041 the MSP fails to execute the edit instruction correctly. TU 2032 is used for probing.
- 1164 | | In TU T2051 the MSP executes a group of instructions too slowly. This could occur if the main storage buffer is not being correctly used or if too many MSP clock times are being extended an extra 100 nanoseconds.
- 1165 | | In TU T2042 the MSP fails to execute the insert and test character instruction correctly. TU 3028 is used to verify an MSP data flow decode.
- 1166 | | In TU T2044 the MSP fails to execute the add logical character instruction correctly. TU 2020 is used to verify an MSP control signal.
- 1167 | | In TU T2052 the MSP fails to correctly execute an instruction using a PACT register.
- 1168 | | In TU T2046 the MSP fails to correctly execute instructions while the CSP does main storage accesses. TU 2020 is used to check several MSP control signals.
- 1175 | | This a Bi-di parity problem. This can be caused by either the A-A1Q2 or A-A1U2 card. This MAP determines which card is bad.
- 1176 | | TU 20A7 failed. A (+ address bit 6) has caused the problem. This MAP tests the (+ address bit 6) signal to determine if it is a bad A-A1Q2 card or a bad A-A1U2 card.
- 1179 | | Main storage write and read tests failed. This can be caused by card A-A1P2, A-A1Q2 or any bad main storage card. This MAP determines which card is bad. The card A-A1U2 location is used as a card test location. The

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- 1180 | 128Kb main storage cards are inserted into this location one at a time and tested. If it is determined that every main storage card is good, then go to MAP 1101 to determine if it is an A-A1P2 or A-A1Q2 card that is bad.
- 1180 | A main storage write and read test failed. This can be caused by cards A-A1P2, A-A1Q2 or any bad main storage card. This MAP determines if a 256 Kb storage card is bad. The main storage and control storage cards are swapped and the CS IPL first and second loads are then run. For the 256 Kb card, this test is run twice; once to test the upper half and once to test the lower half. If these loads are completed correctly, then either the A-A1P2 or A-A1Q2 card is bad and MAP 1191 determines which card is bad. If these loads are not ok, then the main storage card swapped into the A-A1N2 location is bad.
- 1182 | Main storage accesses fail for every main storage card. This MAP attempts to isolate the problem between the two MSP cards. Main storage is assumed to be good.
- 1183 | Main storage write and read tests failed. This can be caused by card A-A1Q2 or any bad main storage card. It has been determined that a main storage card select (- clock enable) has caused the problem. This MAP tests the appropriate card select and determines if it is a bad A-A1Q2 or a main storage card.
- 1184 | In TU T2061, the MSP cannot cause a single bit storage error on one or more of the main storage cards. Either a bad MSP data flow card (A-A1Q2) or any main storage card can cause this.
- 1185 | In TU T2061, the MSP cannot cause a multiple bit storage error on one or more of the main storage cards. This can be caused by either a bad MSP data flow card (A-A1Q2) or any main storage card.
- 1186 | A main storage write and read test failed because of a main storage time out check. This can be caused by card A-A1Q2 or any bad main storage card. This MAP tests (- MS clock enable) and (- MS card select 1) signal to

- determine if it is a bad A-A1Q2 card or a main storage card.
- 1187 | A main storage write and read test (T2068) failed. The main storage access time to do a storage write or read is too long. This can be caused by cards A-A1Q2 or any bad main storage card. This MAP tests (- MS clock enable) signal to determine if it is a bad A-A1Q2 card or go to MAP 1179 to determine which 128 Kb main storage card is bad.
- 1188 | In TU T2094 the MSP cannot cause a storage parity check. This can be caused by card A-A1Q2 or any bad main storage card. It has been determined that a (- MS parity error) has caused the problem. This MAP tests the (- MS parity error) signal to determine if it is a bad A-A1Q2 card or a main storage card.
- 1189 | There is a Read/Write problem. This can be caused by cards A-A1Q2 or A-A1U2. This MAP determines whether the A-A1Q2 or A-A1U2 card is bad.
- 1193 | In TU T2089, it was determined that (- read buffer) is always down. This can be caused by cards A-A1Q2 or A-A1U2. This MAP tests the read buffer signal to determine if it is a bad A-A1Q2 or A-A1U2 card.
- 1197 | TU 20A3 failed. A (- MS multiple bit error) is causing the problem. This can be caused by cards A-A1Q2 or a bad main storage card. This MAP determines if it is a bad A-A1Q2 card or a bad A-A1U2 card.
- 1198 | It has been determined that there is an address problem. TU20A9 determines which address bit is stuck. The problem could be caused by the A-A1Q2 card or the A-A1U2 card. This MAP determines which card is bad.
- 1199 | TU 20A8 failed. It has been determined that a single data line is causing the problem. This could be caused by the A-A1Q2 card or the A-A1U2 card. This MAP determines which card is bad.
- 17XX | Control Panel MAPs

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1700			This MAP checks out display lights on the control panel and determines what causes display problem.
1701			This MAP checks out key failures.
1702			This MAP checks out display lights on the control panel and determines what causes display problem.
1703			This MAP checks out key failures.
30XX			Communications MAPs
3000			This MAP instructs the CE to run the concurrent diagnostic tests for data communications (ELCA).
3001			This MAP provides the FRU isolation between the data communications controller card and the channel cables.
3002			This MAP is used to direct the CE/CSR during periods when the machine has to be powered down.
3003			This MAP instructs the CE to run the MDI tests for data communications (MLCA, SLCA).
3004			This MAP describes how to install the diagnostic wrap card on the communications logic board for SLCA line 1 problems.
3005			This MAP describes how to install the diagnostic wrap card on the communications logic board for SLCA line 2 problems.
3006			This MAP describes how to install the diagnostic wrap card on the communications logic board for SLCA line 3 problems.
3007			This MAP describes how to install the diagnostic wrap card on the communications logic board for SLCA line 4 problems.
3008			This MAP instructs the CE/CSR to analyze the data communications error logs. This MAP also instructs the CE/CSR to attempt to trap or obtain a trace of the

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- transmitted and received data while attempting to duplicate an error condition. This MAP also lists specific data communications failures that are assumed to have a feature visibility, some of them during a trap or trace.
- 3009 | This MAP lists all the cards pertaining to the SLCA, MLCA and ELCA Data Communications area and their configurations. Because there is no specific symptom to be listed, the user may install the cards in any sequence.
- 3010 | This is the Data Communications Entry MAP.
- 3011 | This MAP will isolate a data communications indicator problem to the failing FRU.
- 3012 | This MAP describes how to install the diagnostic wrap card on the communications logic board for SLCA line problems.
- 3014 | This MAP is an autocal interface chart. It shows all the interface pins or the logic cards and cables supplying the interface. The chart can be used to trace cable problems.
- 3020 | This MAP is an EIA/CCITT interface chart. It shows all the interface pins or the logic cards and cables supplying the interface. The chart can be used to trace cable problems.
- 3021 | This MAP runs the Online test.
- 3023 | This MAP tests the remote DDSA Loop-back test. Do not use this MAP on a multipoint network. Aid from a remote system is necessary to complete this test.
- 3024 | This MAP contains the DDSA interface charts. It shows all the interface pins on the logic cards and cables supplying the interface. Use the charts to trace any cable problems and to free-lance scoping (line 1).
- 3025 | This MAP contains the DDSA interface charts. It shows all the interface pins on the logic cards and cables

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- 3026 | supplying the interface. Use the charts to trace any cable problems and to free-lance scoping (line 2).  
This MAP contains the DDSA interface charts. It shows all the interface pins on the logic cards and cables supplying the interface. Use the charts to trace any cable problems and to free-lance scoping (line 3).
- 3027 | This MAP contains the DDSA interface charts. It shows all the interface pins on the logic cards and cables supplying the interface. Use the charts to trace any cable problems and to free-lance scoping (line 4).
- 3028 | This MAP runs the DDSA Online test.
- 3029 | This MAP contains the DDSA interface charts. It shows all the interface pins on the logic cards and cables supplying the interface. Use the charts to trace any cable problems and free-lance scoping (SLCA).
- 3031 | This MAP tests the auto-answer function of the 1200 BPS integrated modem (SLCA).
- 3032 | This charts show the 1200 BPS integrated modem board and cable interface wiring. Use these charts to check continuity and as a free-lance tool in trouble shooting trace signals and data flow for the 1200 IM SLCA.
- 3033 | This MAP checks the World Trade Public Switched Network (PSN) 1200 integrated modem connection to the telephone network (SLCA).
- 3034 | This MAP determines why no answer tone is supplied to incoming calls.
- 3035 | This MAP determines why the system does not answer incoming calls.
- 3036 | This MAP will isolate a data communications indicator problem to the failing FRU.
- 3037 | This MAP is an EIA/CCITT and autocal interface chart. It shows all the interface pins of the logic cards and

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- 3038 | | cables supplying the interface. The chart can be used to trace cable problems.
- 3039 | | This MAP contains the DDSA interface charts. It shows all the interface pins on the logic cards and cables supplying the interface. Use the charts to trace any cable problems and to free-lance scoping.
- 3040 | | This MAP contains the charts showing the X.21 adapter board and cable wiring. Use these charts for continuity checking and as a free-lance tool in trouble shooting trace signals and data flow for the X.21 adapter.
- 3041 | | This is the Data Communications Error MAP.
- 3042 | | This MAP is a V.35 interface chart. It shows all the interface pins of the logic cards and cables supplying the interface. The chart can be used to trace cable problems and free-lance scoping.
- 3043 | | This MAP tests the auto-answer function of the 1200 BPS integrated modem (MLCA line 1).
- 3044 | | This MAP tests the auto-answer function of the 1200 BPS integrated modem (MLCA line 2).
- 3045 | | This MAP tests the auto-answer function of the 1200 BPS integrated modem (MLCA line 3).
- 3046 | | This MAP tests the auto-answer function of the 1200 BPS integrated modem (MLCA line 4).
- 3047 | | This MAP attempts to establish an Online test with a remote system.
- 3048 | | The charts in this MAP show the 1200 BPS integrated modem board and cable interface wiring. Use these charts to check continuity and as a free-lance tool in trouble shooting trace signals and data flow for the 1200 IM line 1.
- 3049 | | The charts in this MAP show the 1200 BPS integrated modem board and cable interface wiring. Use these

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- charts to check continuity and as a free-lance tool in trouble shooting trace signals and data flow for the 1200 IM line 2.
- 3057 | The charts in this MAP show the 1200 BPS integrated modem board and cable interface wiring. Use these charts to check continuity and as a free-lance tool in trouble shooting trace signals and data flow for the 1200 IM line 3.
- 3058 | The charts in this MAP show the 1200 BPS integrated modem board and cable interface wiring. Use these charts to check continuity and as a free-lance tool in trouble shooting trace signals and data flow for the 1200 IM line 4.
- 3059 | This MAP checks the World Trade Public Switched Network (PSN) 1200 integrated modem connection to the telephone network (line 1).
- 3060 | This MAP checks the World Trade Public Switched Network (PSN) 1200 integrated modem connection to the telephone network (line 2).
- 3061 | This MAP checks the World Trade Public Switched Network (PSN) 1200 integrated modem connection to the telephone network (line 3).
- 3062 | This MAP checks the World Trade Public Switched Network (PSN) 1200 integrated modem connection to the telephone network (line 4).
- 3063 | This MAP determines why no answer tone is supplied to incoming calls.
- 3064 | This MAP determines why no answer tone is supplied to incoming calls.
- 3065 | This MAP determines why no answer tone is supplied to incoming calls.
- 3066 | This MAP determines why no answer tone is supplied to incoming calls.

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- 3067 | | This MAP determines why the system does not answer incoming calls.
- 3068 | | This MAP determines why the system does not answer incoming calls.
- 3069 | | This MAP determines why the system does not answer incoming calls.
- 3070 | | This MAP determines why the system does not answer incoming calls.
- 3073 | | The charts in this MAP show the X.21 adapter board and cable wiring. Use these charts for continuity checking and as a free-lance tool in trouble shooting trace signals and data flow for the X.21 adapter SLCA.
- 3074 | | The charts in this MAP show the X.21 adapter board and cable wiring. Use these charts for continuity checking and as a free-lance tool in trouble shooting trace signals and data flow for the X.21 adapter 1.
- 3075 | | The charts in this MAP show the X.21 adapter board and cable wiring. Use these charts for continuity checking and as a free-lance tool in trouble shooting trace signals and data flow for the X.21 adapter 2.
- 3076 | | The charts in this MAP show the X.21 adapter board and cable wiring. Use these charts for continuity checking and as a free-lance tool in trouble shooting trace signals and data flow for the X.21 adapter 3.
- 3077 | | The charts in this MAP show the X.21 adapter board and cable wiring. Use these charts for continuity checking and as a free-lance tool in trouble shooting trace signals and data flow for the X.21 adapter 4.
- 3078 | | This MAP attempts to establish an on-line test with a remote system.
- 3080 | | This MAP is a V.35 interface chart. It shows all the interface pins of the logic cards and cables supplying the interface. The chart can be used to trace cable problems and free-lance scoping.

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3090		This procedure uses SSP procedures to display status and diagnose difficult communications problems.
3091		This procedure uses COMMTEST (an SSP procedure) to diagnose communications controller problems.
40XX		1255 MCR MAPs
4001	X	This MAP tests the ability of the Channel to communicate with the 1255 Attachment card.
4003	X	This MAP tests the ability of the Channel to communicate with the 1255 Controller via the Attachment card.
4004	X	This MAP tests the ability of the 1255 Controller to set its 1255 Command latches.
4005	X	This MAP tests the 1255 Controller's Internal Registers and ALU PCR bits (zero, non-zero, and carry).
4007	X	This MAP tests the 1255 Controller's ALU status conditions.
4009	X	This MAP tests storage used by the 1255 Attachment. Base Storage is on A2N2 and P2 cards, while the Extended Storage Feature uses A2L4 and M4 cards. This MAP tests Base addressing, then Base storage, then Extended addressing, then Extended storage.
4011	X	This MAP tests the 1255 Controller Branch and Link and Long Timeout circuits.
4013	X	This MAP tests the 1255 Controller's ability to perform instructions correctly.
4015	X	This MAP tests the 1255 Controller's ability to perform instructions correctly.
4017	X	This MAP tests half of the 1255 Attachment Drivers, Receivers, and Cabling.

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4019	X	This MAP tests half of the 1255 Attachment Drivers, Receivers, and Cabling.
4021	X	This MAP tests the 1255 hardware used to interface to the Host System.
4023	X	This MAP tests the 1255 hardware used to interface to the Host System.
4031	X	This MAP tests the Channel's ability to communicate with the 1255 Controller.
4033	X	This MAP tests the 1255 Controller's Data paths.
4035	X	This MAP isolates 1255 Controller data problems to a bit or many bits.
4037	X	This MAP isolates 1255 Controller data problems to a bit or many bits.
4041	X	A wrap error has been isolated to '-Disengage'.
4051	X	This MAP determines which Driver/Receiver combination is always active.
4053	X	This MAP determines which Driver/Receiver combination is always active.
4055	X	This MAP determines which Driver or Receiver tested in T40B1 is failing.
4057	X	This MAP determines why the first Wrap test fails completely.
4058	X	A 'CPU' is Stopped wrap failure is isolated to the failing FRU.
4059	X	A 'Start Reset' wrap failure is isolated to the failing FRU.
4060	X	A 'Transit Routing' wrap failure is isolated to the failing FRU.
4061	X	An 'Account Number' wrap failure is isolated to the

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		failing FRU.
4062	X	An 'I-0 Ready' wrap failure is isolated to the failing FRU.
4063	X	An 'External I/O Light' wrap failure is isolated to the failing FRU.
4065	X	This MAP determines which Driver or Receiver tested in T40B2 is failing.
4066	X	A 'Read Call' wrap failure is isolated to the failing FRU.
4067	X	A 'Document Under Read Head' wrap failure is isolated to the failing FRU.
4068	X	A 'Document To Be Read' wrap failure is isolated to the failing FRU.
4069	X	The 'Engage' wrap failure is isolated to the failing FRU.
4070	X	This MAP determines which Driver or Receiver tested in T40B4 is failing.
4071	X	A 'Disengage' wrap failure is isolated to the failing FRU.
4072	X	An 'Auto Select' wrap failure is isolated to the failing FRU.
4073	X	A 'Serial Number Field Valid' wrap failure is isolated to the failing FRU.
4074	X	This MAP determines which Driver or Receiver tested in T40B5 is failing.
4075	X	A 'Service Response' wrap failure is isolated to the failing FRU.
4076	X	An 'Amount Field Valid' wrap failure is isolated to the failing FRU.

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4077	X	A 'Process Control Field Valid' wrap failure is isolated to the failing FRU.
4078	X	The 'I-0 Disconnect' wrap failure is isolated to the failing FRU.
4079	X	The 'Stacker 0' wrap failure is isolated to the failing FRU.
4080	X	The 'Stacker 1' wrap failure is isolated to the failing FRU.
4081	X	The 'Stacker 2' wrap failure is isolated to the failing FRU.
4082	X	The 'Stacker 3' wrap failure is isolated to the failing FRU.
4083	X	The 'Stacker 4' wrap failure is isolated to the failing FRU.
4084	X	The 'Stacker 5' wrap failure is isolated to the failing FRU.
4085	X	The 'Stacker 6' wrap failure is isolated to the failing FRU.
4086	X	The 'Stacker 7' wrap failure is isolated to the failing FRU.
4087	X	The 'Stacker 8' wrap failure is isolated to the failing FRU.
4088	X	The 'Stacker 9' wrap failure is isolated to the failing FRU.
4089	X	This MAP determines which Driver or Receiver tested in T40C7 is failing.
4090	X	A 'Stacker R' wrap failure is isolated to the failing FRU.
4091	X	A 'Sorter Is Stopped' wrap failure is isolated to the failing FRU.

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4092	X	A 'Field 6 Valid' wrap failure is isolated to the failing FRU.
4093	X	The 'Stacker A' wrap failure is isolated to the failing FRU.
4094	X	A 1255 Attach Stacker Select failure is isolated to the failing FRU.
4095	X	The incorrect 1255 status condition at initialization time is isolated.
4096	X	The incorrect 1255 status condition at initialization time is isolated.
4097	X	The incorrect 1255 status following a command to feed a check without reading is analyzed to find the failing area in the 1255.
4098	X	The 1255 incorrect status following a command to read only a single character from a check is analyzed to find the failing area in the 1255.
4099	X	The incorrect 1255 status following a command to read two complete checks is analyzed to find the failing area in the 1255.
41XX		3262 MCR MAPs
4100		This Entry MAP isolates a failure to the 1255 or 1255 Attachment Feature, and it gives instructions on use of the 1255 Aoftmaps (MDIs).
4101		This MAP isolates the failure of the Adapter Reset function to either the controller card or the attachment card. All lines are correct except one, the controller error.
4102		This MAP isolates the failure of the Controller load latch to either card A-A2N2 (1255 Attachment) or card A-A2P2 (1255 Controller).
4103		This MAP isolates the failure of the Single cycle

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- latch to either card A-A2N2 (1255 Attachment) or card A-A2P2 (1255 Controller).
- 4104 | This MAP isolates the failure of the Controller reset latch to either card A-A2N2 (1255 Attachment) or card A-A2P2 (1255 Controller).
- 4106 | A single bit failure has been found in the 1255 Controller's data bus (bit 0).
- 4107 | A single bit failure has been found in the 1255 Controller's data bus (bit 1).
- 4108 | A single bit failure has been found in the 1255 Controller's data bus (bit 2).
- 4109 | A single bit failure has been found in the 1255 Controller's data bus (bit 3).
- 4110 | A single bit failure has been found in the 1255 Controller's data bus (bit 4).
- 4111 | A single bit failure has been found in the 1255 Controller's data bus (bit 5).
- 4112 | A single bit failure has been found in the 1255 Controller's data bus (bit 6).
- 4113 | A single bit failure has been found in the 1255 Controller's data bus (bit 7).
- 4114 | A single bit failure has been found in the 1255 Controller's data bus (bit P).
- 4115 | This MAP isolates failures of more than one bit in the data bus wrap test.
- 4116 | This MAP isolates storage failures between the Storage Expansion Feature and basic Storage.
- 4117 | This MAP isolates the failure between the Storage Expansion Feature and basic Storage.
- 4118 | A wrap of the 1255 Controller's data buses has

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- failed.
- 4122 | This MAP isolates failures found in the Controller register selection function.
- 4125 | This MAP isolates a failure of the 1255 controller ALU zero indicator.
- 4126 | This MAP isolates a failure of the 1255 controller ALU non-zero indicator.
- 4127 | This MAP isolates a failure of the 1255 controller ALU carry indicator.
- 4131 | A wrap error has been isolated to -CPU (1255 Controller) is stopped.
- 4132 | A wrap error has been isolated to +Transit routing field valid.
- 4133 | A wrap error has been isolated to +Account number field valid.
- 4134 | A wrap error has been isolated to +I-0 Ready.
- 4135 | A wrap error has been isolated to +External I-0 light.
- 4136 | A wrap error has been isolated to -Read call.
- 4137 | A wrap error has been isolated to +Document under read head.
- 4138 | A wrap error has been isolated to +Document to be read.
- 4139 | A wrap error has been isolated to -Engage.
- 4140 | A wrap error has been isolated to +Field seven valid.
- 4141 | A wrap error has been isolated to -Disengage.
- 4142 | A wrap error has been isolated to +Auto select.

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- 4143 | A wrap error has been isolated to +Serial number field valid.
- 4144 | A wrap error has been isolated to +Service response.
- 4145 | A wrap error has been isolated to +Amount field valid.
- 4146 | A wrap error has been isolated to +Process control field valid.
- 4147 | A wrap error has been isolated to -I-0 Disconnect.
- 4148 | A wrap error has been isolated to +Permit service request.
- 4149 | A wrap error has been isolated to +1255 data bit 5.
- 4150 | A wrap error has been isolated to +1255 data bit 6.
- 4151 | A wrap error has been isolated to +1255 data bit 7.
- 4152 | A wrap error has been isolated to +End transmission.
- 4153 | A wrap error has been isolated to +Service request.
- 4154 | A wrap error has been isolated to +1255 data parity bit.
- 4155 | A wrap error has been isolated to +1255 data bit 0.
- 4156 | A wrap error has been isolated to +1255 data bit 1.
- 4157 | A wrap error has been isolated to +1255 data bit 2.
- 4158 | A wrap error has been isolated to +1255 data bit 3.
- 4159 | A wrap error has been isolated to +Sorter is stopped.

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4160	A wrap error has been isolated to +Field 6 valid.
4161	A wrap error has been isolated to +1255 data bit 4.
4162	A wrap error has been isolated to -Stacker 0 bit.
4163	A wrap error has been isolated to -Stacker 1 bit.
4164	A wrap error has been isolated to -Stacker 2 bit.
4165	A wrap error has been isolated to -Stacker 3 bit.
4171	This MAP is a guide to using an exerciser to run the 1255 online.
50XX	3262 Printer MAPs
5000	This is the printer error symptom MAP. It goes to the correct MAP for the symptom indicated.
5001	This is the printer entry MAP. This MAP aids in determining the correct action to take in diagnosing failures in the printer and the printer attachment.
5002	This MAP will determine if the print transport mechanism is operating properly. It will also analyze the print quality of the output.
5004	This MAP aids you in determining the cause of the printer power problem.
5006	This is the printer controller error MAP.
5008	This is the printer console light error MAP. This MAP finds the failing FRU or, if necessary, goes to the 3262 printer entry MAP.
5010	This is the printer console key error MAP. This MAP finds the failing FRU or goes to the correct printer box MAP if necessary.
5012	This is the printer control switch and CE error MAP. This MAP finds the failing FRU or goes to the 3262

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- printer entry MAP.
- 5014 | This is the printer -belt go error MAP. This MAP finds the failing FRU or, if necessary, goes to the 3262 printer entry MAP.
- 5016 | This is the printer belt up to speed, ribbon check and printer busy error test MAP. This MAP finds the failing FRU or, if necessary, goes to the 3262 printer entry MAP.
- 5018 | This is the printer data parity check and power problem MAP. This MAP finds the failing FRU or, if necessary, goes to the 3262 printer entry MAP.
- 5020 | This is the printer belt timing error MAP.
- 5022 | This is the fire tier (1-5) error MAP. This MAP finds the failing FRU or, if necessary, goes to the 3262 printer entry MAP.
- 5024 | This is the printer carriage advance test MAP. This MAP finds the failing FRU or, if necessary, goes to the 3262 printer entry MAP.
- 5026 | This is the data bit (0-7) and parity bit wrap error MAP. This MAP finds the failing FRU or, if necessary, goes to the 3262 printer entry MAP.
- 5028 | This is the printer forms jam test MAP. This MAP finds the failing FRU or, if necessary, goes to the 3262 printer entry MAP.
- 5030 | This is the printer hammer echo return test MAP. This MAP finds the failing FRU or, if necessary, goes to the 3262 printer entry MAP.
- 5032 | This is the printer reset test MAP. This MAP finds the failing FRU or, if necessary, goes to the 3262 printer entry MAP.
- 5034 | This MAP is the hammer sample test MAP. This MAP finds the failing FRU or, if necessary, goes to the 3262 printer entry MAP.

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**MAP Descriptions**

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5036		This is the cable interlock MAP. This MAP aids you in finding the cause of a cable interlock problem between the 3262 printer and the attachment.
5038		This is the printer wrap, return bit error MAP. This MAP finds the failing FRU.
5040		This MAP tests three interface lines - hammer echo return, + POR (power on reset) or - close contactor for an open. If necessary it will go to the 3262 printer entry MAP.
5042		This is the thermal check and carriage pedestal check MAP. This MAP finds the failing FRU or, if necessary, goes to the 3262 printer entry MAP.
5044		This is the printer - data protect MAP. This MAP finds the failing FRU.
61XX		Controller MAPs
6101	X	Controller Good Machine Path MAP.
6102	X	Controller call MAP.
6105	X	Controller Good Machine Path MAP.
65XX		DSA MAPs
65FF	X	This map permits the CE/CSR to bypass selected sections of the Good Machine Path.
6501	X	This MAP tests the channel/DSA interface.
6502	X	This map tests the DSA/adaptor interface.
70XX		Work station MAPs
7001		This is the entry point to the work station subsystem MAPs. Directions will be provided to assist in isolating local work station problems.
81XX		Communications Softmaps

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8101	X	This is the data communications entry MAP. The correct diagnostics will be executed depending on the hardware configuration.
8102	X	This is the data communications entry MAP. The correct diagnostics will be executed depending on the hardware configuration.
8103	X	This is the data communications entry MAP. The correct diagnostics will be executed depending on the hardware configuration.
8106	X	This MAP executes two transparent TUs to the communications adapter cards.
8107	X	This MAP tests the data communications adapter card for good operation.
8108	X	This MAP tests the communications adapter card and display lights.
8110	X	This MAP will test an IBM standalone modem with wrap for good machine operation.
8111	X	This MAP tests the EIA card and cables that make up an EIA configuration. Wraps are made to the end of the external cable.
8112	X	This MAP isolates the external cable by performing a cable tower wrap.
8113	X	This error MAP isolates the internal cable by performing a wrap at the board cable socket.
8114	X	This MAP isolates the line adapter by performing a wrap at the communications adapter card.
8116	X	This MAP tests standalone 3863, 3864 and 3865 modems by executing an LPDA self test and checks the data quality with an LPDA status test.
8117	X	This MAP tests the DDSA card with an internal wrap and the cables with a data wrap to the end of the external

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		cable.
8118	X	This MAP assumes the external cable data wrap test T8150 failed. A cable tower data wrap will now be run to isolate the external cable.
8119	X	This error MAP isolates the internal cable by performing a wrap at the board cable socket.
8120	X	This MAP isolates the line adapter with a communications adapter wrap.
8125	X	This MAP tests the autocal hardware for good operation.
8131	X	This MAP isolates the controller when multiple adapter errors have been found.
8132	X	This MAP isolates the controller or adapter when multiple adapter errors have been found.
8133	X	This MAP isolates the adapter when multiple adapter errors have been found.
8136	X	This MAP runs internal wraps to the 1200 BPS integrated modem hardware.
8137	X	This MAP wraps data to the cable tower on a 4 wire non-switched configuration.
8138	X	This MAP wraps data to the board cable socket on a 4 wire non-switched configuration.
8139	X	This MAP wraps data to the 1200 line adapter socket.
8140	X	This MAP tests the X.21 switched adapter card for good operation.
8141	X	This MAP tests the X.21 switched adapter card for good operation.
8142	X	This MAP tests the X.21 non-switched adapter card for good operation.

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MAP 0011-33

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8143	X	This MAP tests the X.21 non-switched adapter card for good operation.
8144	X	This error MAP isolates the Receive Clock test failure.
8151	X	This MAP tests the V.35 hardware for good operation.
8152	X	A wrap to the cable tower will be done to isolate the failing FRU.
93XX		72MD Disk MAPs
9300		This MAP isolates the carriage bed failures (72MD).
9301		This MAP isolates the picker failures (72MD).
95XX		21ED Disk Failure MAP
9500		This MAP instructs the CE/CSR to run the MDI tests for the 21ED disk drives.
97XX		10SR MAPs
9700		The MAP is the Disk Entry MAP. It instructs the CE/CSR in isolating solid, media and intermittent errors.
9730		This MAP is for FRU isolation on the 10SR disk drive that requires the system to be powered off.
9750		This MAP will isolate the FRU on the 10SR disk drive that is short cicuiting a voltage.
99XX		8809 MAPs
9900		Tape and Data Storage subsystem.
9905		Swap A2K2 and A2E2 cards.
9910		Cable wrap test procedure.
A2XX		21ED File Attachment Softmaps
A201	X	This MAP calls in the introductory MAP (65FF) which checks processors and buffers in the system channel.

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		If no problems are found in the up-channel devices, control goes to the 21ED/ADAPTER MDIs.
A220	X	This MAP begins the good machine path. This MAP performs data WRAPs to the ADAPTER and 21ED drive interface in attempts to distinguish between ADAPTER, cable, or 21ED drive failures. The cable continuity is checked. The following 21ED drive functions are tested: motor start and ready, gain control, seek and settle times, servo control, baseline adjust control.
A221	X	This MAP performs data WRAPs to the ADAPTER and 21ED drive interface in attempts to distinguish between ADAPTER, cable, or 21ED drive failures. The cable continuity is checked. Power to the ADAPTER CARD is also checked.
A222	X	This MAP performs data WRAPs to the ADAPTER and 21ED drive interface in attempts to distinguish between ADAPTER, cable, or 21ED drive failures. The cable continuity is checked.
A223	X	This MAP performs data WRAPs to the ADAPTER and 21ED drive interface in attempts to distinguish between ADAPTER, cable, or 21ED drive failures. The cable continuity and cable interlock are checked. The following 21ED drive functions are tested to verify that the DIGITAL CARD is failing: power on and motor start, motor overcurrent, the operation of modules on the DIGITAL CARD, gain control, reset and recalibrate.
A224	X	This MAP performs motor tests in attempts to distinguish between DIGITAL CARD, DRIVE CARD, or DISK ENCLOSURE failures. The motor tests include: motor phase, motor turn, motor overcurrent. The power to the DRIVE CARD is checked. The motor is checked for shorted or open windings. The motor cable is checked. The motor phase and hall snesors are checded.
A225	X	This MAP checks sector and index ratios, and performs recalibrations and resets in attempts to distinguish between DIGITAL, ANALOG, or DISK ENCLOSURE failures.

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A226	X	This MAP performs 21ED drive functions in attempts to distinguish between failures in any of the drive subsystem FRUs. The following 21ED drive functions are tested: servo control, sector and indexes ratios, actuator advance and resistance, recalibration, position error signals. The power to the DRIVE CARD is checked also the voltage on a DRIVE CARD capacitor.
A227	X	This MAP performs 21ED drive functions in attempts to distinguish between DIGITAL and DISK ENCLOSURE failures. The following 21ED drive functions are tested: read ID and head select, recalibrate and reset, VFO, sector and indexes ratios, track seeks, servo and actuator.
A228	X	The following 21ED drive tests are performed in attempt to distinguish between DIGITAL, ANALOG, or DISK ENCLOSURE failures: version status, write, recalibration and reset, track seek, drive ready, servo, read IDs.
A229	X	This MAP attempts to distinguish between 21ED drive subsystem FRUs. The following tests are performed: read IDs, read data, write data, head select. The cable continuity is checked.
A230	X	This MAP tests motor functions in attempts to distinguish between ADAPTER, DIGITAL, or DRIVE card failures. The cable continuity is checked. The following 21ED drive functions are tested: power on and reset, module tests on the DIGITAL card, motor start and drive, motor phase.
A231	X	This MAP checks DRIVE card capacitor control voltages and actuator movement in attempts to distinguish between failing 21ED drive subsystem FRUs.
A232	X	This MAP checks the hall sensors to detect DIGITAL, DRIVE or DISK ENCLOSURE failures.
A233	X	This MAP performs drive functions to distinguish between failing FRUs. The following functions are tested: wraps, motor turn, motor start, sector/index ratio. The cable continuity is checked. The card

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		interlocks are checked. The power to the ANALOG card is checked.
A234	X	This MAP continues the good machine path. This MAP performs the following functions to distinguish between 21ED drive subsystem failures: position error signal (pes), read ID, sector/index ratio (sid), access, VFO, read ID/head select. The power to the ADAPTER card is checked.
A235	X	This MAP continues the good machine path. This MAP reads and writes data to check for a failing ADAPTER card.
A236	X	This MAP performs the following tests to isolate a failure in the 21ED subsystem FRUs: motor start, motor safe speed, drive ready, motor turn, read ID, auto gain control, actuator, head select, sector/index ratio. The power to the DRIVE and ANALOG cards is checked.
A237	X	This MAP tests the following functions to isolate a failure in the 21ED drive subsystem FRUs: servo/actuator, read ID, unlock solenoid. The actuator unlock assembly is checked. The power to the DRIVE card is checked.
A3XX		10SR Adapter Softmaps
A301	X	This MAP is the good machine path for the 10SR adapter card.
A302	X	This MAP is the good machine path for the 10SR adapter card/10SR disk drive interface.
A310	X	This MAP isolates the FRU if TU TA301 senses an error.
A311	X	This MAP isolates the FRU if TU TA302 senses an error and the result is 88 00.
A312	X	This map isolates the FRU if TU TA302 senses an error and the result is not 88 00.
A313	X	This MAP isolates the FRU if TU TA305 senses an

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		error.
A314	X	This MAP isolates the FRU if TU TA306 senses an error.
A315	X	This MAP isolates the FRU if TU TA307 senses an error.
A319	X	This MAP isolates the FRU if cable continuity error is sensed.
A320	X	This MAP isolates the FRU if TU TA312 senses an error and the disk sense parity check bit is off.
A321	X	This MAP isolates the FRU if TU TA311 senses an error.
A322	X	This MAP isolates the FRU if TU TA312 senses an error
A323	X	This MAP isolates the FRU if TU TA313 senses an error.
A330	X	10SR Good Machine Path.
A331	X	This MAP is a sorting MAP for servo related problems.
A332	X	This MAP is a sorting MAP that determines the general area of failure.
A333	X	This MAP isolates the problem if TU results are changing.
A335	X	This MAP isolates problems with the motor and the interlock link.
A336	X	This MAP isolates the problem when there is a motor stopped condition.
A339	X	This MAP probes the servo circuits to isolate the problem.
A340	X	This MAP probes the read circuits to isolate the problem.

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**MAP Descriptions**

MAP 0011-38

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A341	X	This MAP probes the write circuits to isolate the problem.
A344	X	This MAP contains the final steps of problem isolation.
A345	X	This MAP isolates servo clock problems.
A346	X	This MAP isolates control bus problems.
A347	X	This MAP isolates tag parity problems.
A348	X	This MAP isolates write problems.
A349	X	This MAP isolates read problems.
A350	X	This MAP isolates VCM Driver Assembly problems.
A351	X	This MAP probes the read circuits to isolate the problem.
A355	X	This MAP uses TU results to perform general problem isolation.
A357	X	This MAP isolates guard band early problems.
A358	X	This MAP isolates guard band late problems.
A359	X	This MAP isolates guard band pulsing problems.
A360	X	This MAP contains the final steps of problem isolation.
A361	X	This MAP contains the final steps of problem isolation.
A362	X	This MAP contains the final steps of problem isolation.
A363	X	This MAP contains the final steps of problem isolation.
A370	X	This MAP isolates problems with the motor and the

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		interlock link.
A372	X	This MAP isolates control bus problems.
A373	X	This MAP isolates VCM Driver Assembly problems.
A380	X	This MAP contains the final steps of problem isolation.
A381	X	This MAP contains the final steps of problem isolation.
A382	X	This MAP contains the final steps of problem isolation.
B1XX		8809 Tape Adapter Softmaps
B101	X	MDI running TU120 and TU121.
B102	X	MDI running TU121 and 122.
B103	X	MDI running TU123 through TU136.
B104	X	MDI running TU137.
B105	X	MDI isolates DB0 bits 0, 1, 2 and Tag Bus bits 0, 4, 6.
B106	X	MDI isolates DBI bits 0-3 line failures.
B107	X	MDI isolates DBI bits 4-7 line failures.
B108	X	MDI isolates DBI bit P, Normal End, Tag Valid, and Select Alert line failures.
B109	X	MDI isolates DB0, Tag and Select line failures.
B110	X	MDI isolates Check End and Select Alert line failures.
D2XX		Diskette Softmaps
D201		This MAP executes TDs 201, 202, 203, and 204.
D202		This MAP executes TDs 210, 211, 212, 213, and 214.

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MAP 0011-39



MAP Descriptions

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D203		This MAP executes TDs 215 and 216.
D204		This MAP executes TDs 217, 218, 219, 220, and 234.
D205		This MAP executes TDs 215 and 216.
D206		This MAP executes TDs 217, 218, 219, 220 and 234.
D207		This MAP executes TDs 231 and 232.
D208		This MAP executes TD 230.
D209		This MAP executes TDs 231 and 232.
D210		This MAP executes TD230.
E2XX		3262 Printer Softmaps
E201	X	Printer adapter good machine path. This MAP tests the System/Adapter interface. This MAP also finds the failing FRU or goes to another MAP if necessary.
E253	X	Printer adapter good machine path. This MAP partially tests the printer Controller card A-A2R2. It includes all the storage addressing and data wrap tests. It finds the failing FRU or goes to another MAP if necessary.
E255	X	Printer adapter good machine path. This MAP partially tests the printer Controller card A-A2R2. This MAP finds the failing FRU or goes to another MAP if necessary.
E257	X	Printer adapter good machine path. This MAP performs a software lamp test for the 3262 printer unit console. This MAP does not include a test for the printer unit Power On indicator. If you suspect a problem in this area, go to MAP 5004, Entry Point A.
E259	X	Printer adapter good machine path. This MAP will test all the various printer control registers on the adapter card A-A2S2 and will test the remaining printer interface lines. It also finds the failing FRU

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		or goes to the correct MAP if necessary.
E261	X	Printer adapter good machine path. This MAP will test all the various printer control registers on the adapter card A-A2S2 and will test the remaining printer interface lines. It also finds the failing FRU or goes to the correct MAP if necessary.
E263	X	Printer adapter good machine path. This MAP runs the following function tests: Hammer Matrix Print test, H Pattern Print test, T Pattern Print test, Ripple Print test and Carriage Space/Skip test. If an error occurs, it will be displayed on the screen along with the corrective action to take.
E265	X	This MAP is the Throat Interlock/End of Forms switch MAP.
E267	X	Printer adapter good machine path. This MAP finds the failing FRU or goes to the 3262 printer entry MAP if necessary.
E269	X	This MAP will decode the error status as it is returned to the diagnostic function test being run. This is the same status that is reported to the system and recorded in the error log. The error MAPs and descriptions should be used to diagnose the error.
E271	X	This MAP will decode the error status as it is returned to the diagnostic function test being run. This is the same status that is reported to the system and recorded in the error log. The error MAPs and descriptions should be used to diagnose the error.
E273	X	Printer adapter good machine path. This MAP partially tests the State Sequencer card A-A2T2. This MAP also finds the failing FRU or goes to another MAP if necessary.
E275	X	There is a failure in the printer console interface. This MAP identifies the failing line or FRU.
E277	X	There is a failure in the printer/adapter interface. This MAP identifies the failing interface line and

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MAP 0011-41

**MAP Descriptions**

MAP 0011-42

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		goes to a MAP which isolates the error to one of the following: 1.printer adapter card, 2.printer cables (system or interface), 3.printer unit.
E279	X	There is a failure in the printer/adapter interface. This MAP identifies the failing line or FRU.
E281	X	There is a failure in the printer/adapter interface. This MAP identifies the failing line or FRU.
E283	X	There is a failure in the printer/adapter interface. This MAP identifies the failing line or FRU.
E285	X	There is a failure in the printer/adapter interface. This MAP identifies the failing line or FRU.
E287	X	There is a failure in the printer/adapter interface. This MAP identifies the failing line or FRU.
E289	X	There is a failure in the printer/adapter interface. This MAP identifies the failing line or FRU.
E295	X	There is a failure in the printer carriage interface. This MAP identifies the failing line or FRU.
E297	X	There is a failure in the printer/adapter interface. This MAP identifies the failing interface line and goes to a MAP which isolates the error to one of the following: 1.printer adapter card, 2.printer cables (system or interface), 3.printer unit.

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MAP 0011-42

EC 826380			PN 2597097
27MAY83			

**First System Entry MAP**

MAP 0101-1

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**ENTRY POINTS**

FROM	ENTER THIS MAP		
MAP NUMBER	ENTRY POINT	PAGE NUMBER	STEP NUMBER
A2XX	B	4	008
A3XX	B	4	008
0105	A	2	001
0105	B	4	008
0105	G	7	030
0199	A	2	001
0511	A	2	001
1100	A	2	001
1700	N	11	062
1701	A	2	001
3002	A	2	001
3003	A	2	001
9500	A	2	001
9700	A	2	001
9700	C	5	010

**EXIT POINTS**

EXIT THIS MAP		TO	
PAGE NUMBER	STEP NUMBER	MAP NUMBER	ENTRY POINT
11	067	0105	A
13	095	0105	A
13	100	0105	A
13	099	0105	A
6	020	0118	A
16	126	0118	A
17	137	0121	A
6	019	0500	A
17	136	0500	A
7	024	0500	A
8	035	0500	A
10	047	0500	A
10	055	0500	A
10	059	0500	A
9	045	0584	A
16	125	0584	A
10	052	0584	A
10	048	1700	A
10	056	1700	A
10	057	1700	A
11	061	1700	B
12	071	1700	B
11	063	1701	A
11	066	1701	A
12	069	1701	A
12	073	1701	A
12	075	1701	A
12	077	1701	A
12	083	1701	A
12	085	1701	A
13	087	1701	A
13	089	1701	A
13	091	1701	A
8	033	1701	D
16	121	1701	E
12	079	1701	E
12	081	1701	F

## System Entry MAP

MAP 0101-2

### 5360 Systems Unit

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#### EXIT POINTS

EXIT THIS MAP		TO	
PAGE NUMBER	STEP NUMBER	MAP NUMBER	ENTRY POINT
7	027	1701	G
8	039	1701	G
9	041	1701	G
16	127	3011	A
16	128	3011	A
18	139	4100	A
16	118	5001	A
18	141	9900	A

#### 001

##### (Entry Point A)

The following sections in the General Maintenance Information Manual (VOL B1) should be read before going on:

- 01-000 Safety and Maintenance Overview
- 01-100 Starting the System
- 01-200 Displaying and Changing System Information

MAPs or MDIs are designed to diagnose a solid symptom (indicator) to a fault (FRU). If the symptom is not solid, use the MAPs and MDIs to attempt isolating the problem. Also, review the intermittent MAPs 0300. If the MAPs and MDIs fail to find the fault (FRU), do the following:

- Unless directed to do otherwise, always power off the system before attempting to remove or replace or reinstall any FRU.

When probing, the general logic probe is to be set as follows unless directed to set in another position:

Technology switch = multi  
Latch switch = none  
Gate ref = +1.4V

(Step 001 continues)

#### MAP DESCRIPTION:

This MAP is the entry point for all S/36 maps.

#### START CONDITIONS:

This is the first entry point in the MAPs.

#### FRUs TESTED:

None

The MAP collects the failing symptoms and determines the FRU causing the problem.

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MAP 0101-2

**System Entry MAP**

**5360 Systems Unit**

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(Step 001 continued)

- If the system is left with an error indication, record on/off status of all lights on the control panel and on the printer unit console (if installed).
- See General MIM Section 01-300 for information on displaying checks/status.

A 4 character reference code may be provided by the customer or the system may be displaying one either on the system console or in the control panel display.

System reference codes appearing in the control panel display that are 0000 through 0255 with the program check lights on are programming type errors and you should contact a PSR. If any of these codes appear and the program check light is not on, it means the CSP is not running and the SRC is invalid. (See General MIM section 01-340.)

- Record any pertinent information the system operator has observed, include MIC and or system reference code (SRC) and/or wrap errors.

If the customer is using the system, you may be able to perform some concurrent maintenance activities with customer approval. Concurrent maintenance can be performed on the 8809 tape drive unit and the 6157 tape. (See MIM section 01-020 for other concurrent activities)

**Do you have a 4 character SRC between 1b40 and 1bFF or a suspected 8809 tape problem?**

Y N

002

**Do you have a 4 character SRC 17xx or a suspected 6157 tape problem?**

Y N

003

**Do you suspect a 1255 MCR problem?**

Y N

1 1 1  
8 8 8  
A B C D

D

MAP 0101-3

004

To use these MAPs beyond this point requires a dedicated system.

- Be sure that the cards/cables are seated properly. (make sure top card connectors are oriented properly and are in proper position).
- See FLD's AB100 and AB200.

- Place the security switch in the service position before starting through these MAPs and place the security switch to the normal position before returning the system to the customer.

- Refer to General MIM sections 01-380 and 01-390 for IPL error definition and display information.

- If you have a reference code but cannot find it in the reference code list (MAP 0113, 0114, 0115 and 0116), take the no leg.

**Do you have a 4 character system reference code?**

Y N

005

**Go to Page 5, Step 010, Entry Point C.**

006

**Have you already replaced the FRU'S called out by the reference code?**

Y N

007

MAP 0113, 0114, 0115 and 0116 are quick fix MAPs.

- Read the System Reference Code (SRC) comment section for additional information about the problem and for further directions on how to proceed.

- If the comment section does not give directions on how to proceed, you have the following options:

- Replace FRU(S) in the order of probability specified by the SRC.
- Proceed with the MAP or MDI referenced without replacing FRU(S) in an effort to reduce (Step 007 continues)

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4  
E

MAP 0101-3

E  
3

**System Entry MAP**

MAP 0101-4

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(Step 007 continued)  
the number of probable FRU(S).

Note: If there are multiple SRCs read the comment section to see if some codes can be ignored. If the comment section does not identify the predominate reference code then proceed as follows:

- If the SRCs point to common FRU(s) then add the probabilities for each FRU to create a combined FRU probability list.
- If the SRCs do not point to common FRU(s) then treat them as multiple failures.
- If the MAP specified does not reduce the FRU(s) called or if there is no MAP or MDI reference then replace the FRU(S) in the order of probability.
- Complete the action specified in the respective SRC MAP.

**Go to Step 008, Entry Point B.**

**008**

**(Entry Point B)**

- If you have not replaced any FRUs or the FRUs replaced did not fix the problem, take the no leg.

**Did the FRU replaced fix the problem?**

**Y N**

--	--

1  
7 F 5  
G

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MAP 0101-4



**System Entry MAP**

**5360 Systems Unit**

009

- Select mode 6.
- Press the Power key (power off).
- Remove any new cards you may have installed because of an SRC; reinstall the old cards in their places. This is to return the system to its original state.
- Press the Power key (power on).
- Compare the location of the FRU/FRUs called out by the reference code with the following list:
  - A-A1E2    A-A2E2    A-A3S2
  - A-A1H2    A-A2J2    A-A3P2
  - A-A1K2    A-A2N2
  - A-A1L2    A-A2S2
  - A-A1N2    A-A2T2

These cards all interface to the channel.

**Was any card called out located in one of the above locations?**

Y N

010

(Entry Point C)

**Is the Power Check light or Temperature Check light on?**

Y N

011

**Is system power on?**

Y N

012

- Make sure that the security switch is in the service position.

- Press the Power key (power on).

**Did the system power up and remain up?**

Y N

013

- Set the security switch to the normal position.

- Press the Power key (power on).

**Did system power up and remain up?**

Y N

1	1	1			
7	7	6	7	7	6
H	J	K	L	M	N

**014**

- Press Lamp Test and observe the CS light on the control panel.

The CS light coming on means that CB1 is on and that power is getting to the system.

**Did the CS light come on?**

Y N

**015**

- Set CB1 to the On position (05-215).
- Press the Power key (power on).

**Did system power up and remain up?**

Y N

**016**

**(Entry Point D)**

- Check to see that the UEPO (Unit Emergency Power Off) witch is on (left end of system).

**Was the UEPO switch on?**

Y N

**017**

- Set the UEPO switch on.
- Press the Power key (power on).

**Did the system power up and remain up?**

Y N

**018**

**Did the Power Check light come on?**

Y N

**019**

**Go To Map 0500, Entry Point A.**

**020**

**Go To Map 0118, Entry Point A.**

**021**

**(Entry Point E)**

**Was power the only problem?**

Y N

**022**

**Go to Page 7, Step 028, Entry Point F.**

**5360 Systems Unit**

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**023**

- Return system to operator.

**024**

Go To Map 0500, Entry Point A.

**025**

Go to Page 6, Step 021, Entry Point E.

**026**

Go to Page 6, Step 016, Entry Point D.

**027**

Go To Map 1701, Entry Point G.

**028**

(Entry Point F)

- If you are satisfied that power and the control panel are functioning correctly, take the no leg.
- If you are in doubt, take the yes leg.

**Do you want to check out the control panel or power sequencing?**

**Y N**

**029**

Go to Page 9, Step 043, Entry Point H.

**030**

(Entry Point G)

This step starts power off sequence. See note.

- Select mode 6.
- Do not press the Power key at this time.

**Is 6 displayed in the Mode Select display?**

**Y N**

**031**

- Set CB1 to the Off position (05-215).
- Set CB1 to the On position (05-215).
- Press the Power key (power on).

Go to Page 10, Step 050, Entry Point I.

If you are satisfied that the problem is not in the control panel or in the power on/off sequencing then you should take the no leg. The yes leg will take you through power off then power on and then through several steps checking out control panel lights and functions.

**Note:** Power off will reset any error conditions or information in registers, main storage or control storage. Be sure you have recorded all possible status and error information before continuing. See General MIM 01-300.

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MAP 0101-7

T  
7

**System Entry MAP**

MAP 0101-8

**5360 Systems Unit**

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032

Did the system power remain on?

Y N

033

Go To Map 1701, Entry Point D.

034

- Press the power key (power off).

Note: After pressing the Power key, the Power Check light will flash until the power sequences down.

Did the system power down?

Y N

035

Go To Map 0500, Entry Point A.

036

- Check the control panel to see if any power status lights are on without pressing the Power Status key.

None of the communications/power status lights located in the lower left corner of the control panel should be on at this time.

Are any power status lights on?

Y N

037

- Set the security switch to the locked position.
- Press the Power key (power on).

Did the system power up?

Y N

038

- Set the security switch to the normal position.
- Press the Power key (power on).

Did the system power up and remain up?

Y N

039

Go To Map 1701, Entry Point G.

1 1 9  
6 6 W  
U V

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MAP 0101-8

**System Entry MAP**

**5360 Systems Unit**

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040

- Select mode 6.
- Press the Power key (power off).
- Set the security switch to the service position.
- Press the Power key (power on).

**Did the system power up?**

Y N

041

Go To Map 1701, Entry Point G.

042

- If you are satisfied that the control panel is functioning correctly, take the no leg.
- If you have any doubts, take the yes leg.

This completes the power on/off sequence check. The control panel check out is next.

**Do you want to continue with the control panel check out?**

Y N

043

(Entry Point H)

The following step is to give a quick check of the control panel indicators.

- Press and hold the Lamp Test key.

**Did all indicators come on and all displays show 8's?**

Y N

044

The Power Check, Temperature Check and all Power Status lights should all come on when Lamp test is pressed.

**Did all these lights come on?**

Y N

045

Go To Map 0584, Entry Point A.

046

- Press the Power Status key.

**Did the CS light come on?**

Y N

1	1	1	1
0	0	0	0
X	Y	Z	A

X  
9  
Y  
9  
Z  
9  
A  
9

**System Entry MAP**  
**5360 Systems Unit**

PAGE 10 OF 18

047  
Go To Map 0500, Entry Point A.

048  
Go To Map 1700, Entry Point A.

049  
Go to Page 13, Step 092, Entry Point K.

050  
(Entry Point I)  
- Press and hold the Lamp Test key.  
All indicator lights should be on and all character displays should show 8's.  
**Are all lights and displays correct?**

Y N

051  
The Power Check, Temperature Check and all Power Status lights should all come on when Lamp test is pressed.  
**Did all these lights come on?**

Y N

052  
Go To Map 0584, Entry Point A.

053  
Power On Reset may be active.  
- Probe the following pin for good condition:

Up Light: On  
Down Light: Off

A-A1A5D04 (- Power On Reset).  
**Are the lights correct?**

Y N

A  
B  
A  
C  
A  
D

MAP 0101-10

A  
B  
A  
C  
A  
D

054

Up Light: Off  
Down Light: On

A-A1A5D12 (+ Power On Reset).  
**Are the lights correct?**

Y N

055  
Go To Map 0500, Entry Point A.

056  
Go To Map 1700, Entry Point A.

057  
Go To Map 1700, Entry Point A.

058  
- Press the Power Status key.  
**Did the CS light come on?**

Y N

059  
Go To Map 0500, Entry Point A.

060  
- Check for the following normal conditions after power up:  
Power light is on  
Parity Check light - on or off (Note: Parity Check light forced off on Stage 2 systems)  
Mode select - 0  
Output Display light - on or off  
Interrupt Level - blank  
MSP Run light - off  
CSP Run light - off  
Diskette In Use light off  
System In Use light off  
All check lights on right end of control panel off  
Load light off  
Display - any 4 valid characters  
Adr Cmp Stop CSP light - off  
Main Storage Sel light - off  
(Step 060 continues)

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MAP 0101-10

**System Entry MAP**

MAP 0101-11

**5360 Systems Unit**

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(Step 060 continued)

MSP Stop light - off

Force CSP Run light - off

**Are the light/displays correct?**

Y N

061

Go To Map 1700, Entry Point B.

062

**(Entry Point N)**

- Press the Line Select key.
- Press input key O.
- Observe Line Select Display for 'O' select indication.
- Repeat above sequence using each input key in turn until all line selections have been tried ('O' through 'F').

This routine checks both the line select display and the input keys.

**Were all line select indications correct?**

Y N

063

Go To Map 1701, Entry Point A.

064

Do not insert a diskette or close the cover.

- Select mode E.
- Press the Load key.

**Did the Load light come on and remain on?**

Y N

065

**Did the sign-on screen come up on the work station?**

Y N

066

Go To Map 1701, Entry Point A.

067

Go To Map 0105, Entry Point A.

A  
E  
I  
I

**System Entry MAP**  
**5360 Systems Unit**  
PAGE 12 OF 18

068

- Press the Clear Input key.

**Does the display show 0000?**

Y N

069

Go To Map 1701, Entry Point A.

070

**Is the Output Displayed light off?**

Y N

071

Go To Map 1700, Entry Point B.

072

- Press the Display Output key.

**Is the Output Displayed light on?**

Y N

073

Go To Map 1701, Entry Point A.

074

- Press the Display Input key.

**Is the Output Displayed light off and the display shows 0000?**

Y N

075

Go To Map 1701, Entry Point A.

076

- Press and hold the Input + 1 key.

**Does the display show 0001?**

Y N

077

Go To Map 1701, Entry Point A.

A  
F

A  
F

MAP 0101-12

078

- Release the Input + 1 Key.

- Set the security switch to the normal position.

- Press the MSP Stop key (the Stop light should not appear).

**Did the Stop light remain off?**

Y N

079

Go To Map 1701, Entry Point E.

080

- Set the security switch to the service position.

- Press the MSP Stop key.

**Did the Stop light come on?**

Y N

081

Go To Map 1701, Entry Point F.

082

- Press the CSP Start key and observe the CSP Run light.

**Did the CSP Run appear?**

Y N

083

Go To Map 1701, Entry Point A.

084

- Press the Force CSP Run key twice and observe the Force CSP Run light.

**Did the Force CSP Run light appear when the key is pressed and disappear when the key is pressed again?**

Y N

085

Go To Map 1701, Entry Point A.

1  
3  
A  
G

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MAP 0101-12



A  
G  
1  
2

**System Entry MAP**  
**5360 Systems Unit**  
PAGE 13 OF 18

086

- Select mode 1.
- Press the System Reset key.

Is the Load light off?

Y N

087

Go To Map 1701, Entry Point A.

088

- Press the Adr Cmp Stop CSP key twice and observe the Adr Cmp Stop CSP light.

Did the Adr Cmp Stop light appear when the key is pressed and disappear when the key is pressed again?

Y N

089

Go To Map 1701, Entry Point A.

090

- Press the Main Stg Sel key twice and observe the Main Stg Sel light.

Did the Main Stg Sel light appear when the key is pressed and disappear when the key is pressed again?

Y N

091

Go To Map 1701, Entry Point A.

092

(Entry Point K)

Is a 3262 Printer installed on the system?

Y N

093

(Entry Point P)

Is there an 8809 tape drive installed on the system?

Y N

1  
4  
A  
H  
A  
J  
A  
K

A  
A  
J  
K

MAP 0101-13

094

(Entry Point R)

Is there a 1255 MCR installed on the system?

Y N

095

Go To Map 0105, Entry Point A.

096

Is the 1255 Power On light on?

Y N

097

- Press the 1255 Power On key.

Did the 1255 Power Up?

Y N

098

Go to 1255 TMM SY24-3555 Section 10.2.

099

Go To Map 0105, Entry Point A.

100

Go To Map 0105, Entry Point A.

101

Is the 8809 tape drive Ready light on for Drive 1 and Drive 2 if installed (drive console)?

Y N

102

Is the 8809 tape drive Power light for Drive 1 and Drive 2 if installed (drive console)?

Y N

103

- Check line cord to see that it plugged into an outlet.

- Press the tape drive Power Off key.

- Press the tape drive Power On key.

Is the tape drive Power light on?

Y N

1  
4  
A  
L  
1  
4  
A  
M  
1  
4  
A  
N  
1  
4  
A  
P

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MAP 0101-13

A H L M N P  
1 1 1 1 1  
3 3 3 3 3

**System Entry MAP**  
**5360 Systems Unit**

MAP 0101-14

PAGE 14 OF 18

**104**  
Go To 8809 Tape Drive MIM, Start section.

**105**  
- Make sure a reel of tape is mounted and properly threaded on Drive 1 and Drive 2 if installed.  
- Press the Load Rewind key (tape console).  
- Watch the tape movement.  
**Did the tape move to the BOT (beginning of tape) marker and the Ready light come on?**  
Y N

**106**  
Go To 8809 Tape Drive MIM, Start section.

**107**  
Go to Page 13, Step 094, Entry Point R.

**108**  
- Make sure a reel of tape is mounted and properly threaded on Drive 1 and Drive 2 if installed.  
- Secure the drive cover.  
- Press the Load Rewind key (tape console).  
**Does the tape drive Ready light come on?**  
Y N

**109**  
Go To 8809 Tape Drive MIM, Start section.

**110**  
Go to Page 13, Step 094, Entry Point R.

**111**  
Go to Page 13, Step 094, Entry Point R.

**112**  
**Is the printer Power On light on (printer unit console)?**  
Y N

1 1  
6 5  
A A  
Q R

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MAP 0101-14

113

This is the main power switch on the side of the printer.

**Is the printer Power On/Off switch in the On position?**

**Y N**

114

- Select mode 6.
- Press the Power key on the control panel (power off).
- Press the Power key on the control panel (power on).
- Set the printer Power On/Off switch to On.

The printer power on is controlled by the system power on sequence.

**Did the printer Power light come on and remain on?**

**Y N**

115

The printer will not power up.  
**Go to Step 117, Entry Point M.**

116

**Go to Page 13, Step 093, Entry Point P.**

117

**(Entry Point M)**

The printer will not power up.

- Set the printer Power On/Off switch to Off.
- Ensure that the circuit breakers CP1, CP2, CP3, CP4, and CB01 in the printer unit are in the up position. See 3262 Printer MIM, 11-100.
- Set the printer Power On/Off switch to On.
- Select mode 6.
- Press the Power key (power off).

Note: Security switch must be in either the Normal or Service position before power on can be accomplished.

- Press the Power key (power on).

**Did the printer Power On light appear and remain on?**

**Y N**

1 1  
6 6  
A A  
S T

K U V A A A  
5 8 8 Q S T  
4 5 5

**System Entry MAP**  
**5360 Systems Unit**

MAP 0101-16

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118  
Printer power problem.  
Go To Map 5001, Entry Point A.

119  
Go to Page 13, Step 093, Entry Point P.

120  
Go to Page 13, Step 093, Entry Point P.

121  
Go To Map 1701, Entry Point E.

122  
Is there an A-A3 board installed?  
Y N

123  
Is there a card in slot A-A1K2?  
Y N

124  
Is there a 2 character power reference  
code?  
Y N

125  
Go To Map 0584, Entry Point A.

126  
Go To Map 0118, Entry Point A.

127  
Go To Map 3011, Entry Point A.

128  
Go To Map 3011, Entry Point A.

129  
Is the system stopped? (both MSP Run and CSP  
Run lights off)  
Y N

1 1  
7 7  
A A  
U V

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MAP 0101-16

F H J A A  
4 5 5 U V  
6 1 6

## System Entry MAP

MAP 0101-17

### 5360 Systems Unit

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130

- Press mode select.
- Press 1 key.

Is 1 displayed in mode select display?

Y N

131

Go to Page 7, Step 030, Entry Point G.

132

- Enter 000b.

Is 000b displayed?

Y N

133

Go to Page 7, Step 030, Entry Point G.

134

- Press the Display Output key.
- Record the results displayed.
- Look up the reference code in MAP 0113, 0114, 0115 and 0116.
- If you find a match, perform the FRU replacement unless directed to perform some other function by the comments section. If no match is found or if FRUs have already been replaced, then,

Go to Page 7, Step 030, Entry Point G.

Register 000b may contain a valid reference code and because we are about to power down the system, we record the code first.

135

Go to Page 7, Step 028, Entry Point F.

136

Go To Map 0500, Entry Point A.

137

Indications are that a card on the channel bus is causing the problem. MAP 0121 will start checking the channel.

Go To Map 0121, Entry Point A.

138

- Verify that the system is fixed and return it to the operator.

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MAP 0101-17

A B C  
3 3 3

**System Entry MAP**

MAP 0101-18

**5360 Systems Unit**

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**139**

**Go To Map 4100, Entry Point A.**

**140**

The 6157 tape supports only SRC maps. OLPD is the main diagnostic tool and systest is used for intermittent problems.

**141**

**Go To Map 9900, Entry Point A.**

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MAP 0101-18

**ENTRY POINTS**

FROM	ENTER THIS MAP		
MAP NUMBER	ENTRY POINT	PAGE NUMBER	STEP NUMBER
0101	A	1	001
0116	G	13	082
0159	A	1	001
0159	B	4	013
0179	A	1	001
0199	A	1	001

**EXIT POINTS**

EXIT THIS MAP		TO	
PAGE NUMBER	STEP NUMBER	MAP NUMBER	ENTRY POINT
9	050	0101	B
9	044	0101	B
10	054	0101	B
6	025	0101	G
8	031	0121	A
13	084	0121	A
9	048	0179	A
9	053	0179	A
13	085	0179	A
11	078	0199	A
7	030	1701	H
10	057	7001	AA
9	043	9500	A
13	088	9500	A
9	042	9700	A
13	087	9700	A

**001**  
**(Entry Point A)**

**MAP DESCRIPTION:**

This MAP is part of the good machine path through the system entry MAPs. CSIPL from the diskette to load DCP. If that fails, then CSIPL from disk is attempted to load SSP.

**START CONDITIONS:**

The machine powers up correctly and the control panel has been checked out.

**FRUs PARTIALLY TESTED:**

A-A1E2, A-A2E2, A-A1F2, A-A2F2, A-A1C2, A-A2C2, A-A2J2, A-A2K2  
diskette CSIPL

To CSIPL from the diskette, do the following:  
- Select mode 1.  
(Step 001 continues)

By entering '0000' all IPL diagnostics and wraps will be run. This takes approximately 3 and one half minutes. This is the first attempt for the system entry (Step 001 continues)

**Diskette CSIPL  
5360 Systems Unit**

MAP 0105-2

PAGE 2 OF 13

(Step 001 continued)

- Press the System Reset key.
- Select mode E.
- Enter 0000.
- Insert DIAG21 (DIAG41 for Stage 3 as indicated on top of panel decal) or magazine M1.
- Make sure diskette drive cover switch is closed (72MD drive).
- Press and release the Load key (Load light should come on and go off).

(Step 001 continued)

MAPs to CSIPL the system.

**Did the Load light come on and then go off?**

Y N

**002**

**Is this the first time you have been here on this problem?**

Y N

**003**

**Go to Page 4, Step 015, Entry Point D.**

**004**

- Look for obvious problems with diskette and drive:
  - Foreign material in or on diskette or diskette drive.
  - No diskette inserted.
  - The cover is open.
  - Diskette is not inserted correctly.
  - The AC motor capacitor is broken or distorted.
  - The AC motor is not turning.
  - The drive band is broken or damaged.
  - The belt is off of the pulley or is damaged.
  - Pulley is not turning or is slipping.
  - The cables for attachment or power are not seated.

**Did you find the problem in the list?**

Y N

**005**

**Go to Page 4, Step 015, Entry Point D.**

**006**

- Fix the obvious problem and try again.
- Go to Page 1, Step 001, Entry Point A.**



007

- IPL may take up to 20 minutes.

Did the DCP Menu appear on the system console?

Y N

008

If the SSP Sign-on screen appears instead of the DCP Menu, this means that the system loaded from disk instead of diskette.

Did the SSP Sign-on screen appear?

Y N

009

Did the Console Check light come on (control panel)?

Y N

010

Is there one or more system reference codes displayed on the system console (workstation display)?

Y N

011

Is the system stopped (both CSP Run and MSP Run lights off)?

Y N

012

- Look for a reference code in the MAB register.
- Select mode 1.
- Press the System Reset key.
- Enter 000b.
- Press the Display Output key.
- Record the reference code displayed for possible use in step 014.

Register 000b may contain a valid reference code. If the system is looping, this is the only way to display it.

Go to Page 4, Step 013, Entry Point B.

1 1 1 1  
0 0 0 0  
B C D E F

F  
3

**Diskette CS IPL**  
**5360 Systems Unit**  
PAGE 4 OF 13

MAP 0105-4

013

(Entry Point B)

Does control panel display show FFFF or F090?

Y N

014

- Compare control panel display or the reference code recorded in step 012 above, with the system reference code list (MAP 0113, 0114, 0115 and 0116).

Did you find the displayed code in the list and does it call out a FRU or give a MAP entry point?

Y N

015

(Entry Point D)

- Select mode 1.
- Press the System Reset key.
- Select mode 0.
- Enter 0000.
- Press the Load key.

Did the SSP Sign-on screen appear (system console)?

Y N

016

Does control panel display show FFFF or F090?

Y N

017

Have you been through these steps before on this problem?

Y N

At this point, we have determined that the system will not CS IPL from diskette, no useable reference code is displayed. CS IPL from disk, run wraps and load SSP.

1 1  
0 0 9 9 9 5  
G H J K L M

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MAP 0105-4

M  
4

**Diskette CSIPL  
5360 Systems Unit**

MAP 0105-5

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018

- Compare control panel with the system reference code list MAP 0113, 0114, 0115 and 0116.

**Did you find the displayed code in the list and does it call out a FRU or give a MAP entry point?**

Y N

019

**(Entry Point E)**

- Select mode 1.
- Press the System Reset key.
- Select mode 0.
- Enter FF00.
- Press the Load key.

CSIPL from disk, bypass wraps and load SSP.

**Did the SSP Sign-on screen appear?**

Y N

020

**Does the control panel display show FFFF or F090?**

Y N

021

**Have you been through these steps before on this problem?**

Y N

022

- Compare control panel with the system reference code list MAP 0113, 0114, 0115 and 0116.

**Did you find the displayed code in the list and does it call out a FRU or give a MAP entry point?**

Y N

9 9 9 9 9 6  
N P Q R S T

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EC 842375 PEC 842350

MAP 0105-5

**023**

**(Entry Point F)**

- Select mode 1.
- Press the System Reset key.
- Select mode E.
- Enter FF00.
- Press the Load key.

**Did the DCP menu appear?**

**Y N**

The load from disk, bypassing wraps has failed. Load DCP from diskette and bypass wraps.

**024**

- Select mode 6.
- Press the Power key (power off).

**Did system power off?**

**Y N**

**025**

**Go To Map 0101, Entry Point G.**

**026**

**CAUTION**

When the 6157 adapter card (A-A1E2) is installed, the disk adapter card will be on the A2 board. To prevent damage to the 21ED disk drives, if installed, disconnect cables from J25 and J26 (05-240) before removing A-A1C2 and A-A1D2 (if present) or A-A2C2 and A-A2D2 (if present).

- Remove the disk adapter card at A-A1C2 (and A-A1D2 if present) or A-A2C2 (and A-A2D2 and A-A2C4 and A-A2D4 if present)
  - Reinstall the TCC on remaining cards. The TCC plugs in the X location.
- Note: The connector must be oriented properly before it will plug in.
- Press the Power key (power on).
  - Select mode E.
  - Enter FF00.
  - Press the Load key.

**Did the DCP menu appear?**

**Y N**

The disk adapter card is removed to see if it is causing the problem.

TCC = Top card connector

**027**

- Select mode 6.
  - Press the Power key (power off).
  - Reinstall the disk adapter card at A-A1C2 (and A-A1D2 if present) or A-A2C2 (and A-A2D2 and A-A2C4 and A-A2D4 if present).
  - If 21ED, reconnect cables at J25 and J26 (05-240).
  - Remove the diskette adapter card at A-A1F2 or A-A2F2.
  - Reinstall the TCC(s) on remaining cards.
- The TCC plugs in the X (and Z)).
- See FLD AB100 and AB200.
  - Press the Power key (power on).
  - Select mode 0.
  - Enter FF00.
  - Press the Load key.

Load should start after disk comes ready (about 20 seconds)

**Did the SSP Sign-on screen appear?**

Y N

**028**

**Is there an 8809 tape drive attached to the system?**

Y N

**029**

**(Entry Point H)**

- Select mode 6.
- Press the Power key (power off).
- Reinstall diskette adapter card at A-A1F2 or A-A2F2.
- Reinstall the top card connector.
- Connect probe to A-A1A5D12.
- Press the Power key and observe the down light on the probe as the power appears.

**Did the down light flicker before coming on solid?**

Y N

**030**

**Go To Map 1701, Entry Point H.**

Still fails so we reinstall the disk adapter card and remove the diskette adapter card.

Note: The connector must be oriented properly before it will plug in.

The problem appears to be something that is common to the disk and diskette or the channel bus. MAP 0121 will start checking out the CSP.

Y Z  
7 7

**Diskette CSIPL**  
**5360 Systems Unit**  
PAGE 8 OF 13

**031**

Go To Map 0121, Entry Point A.

**032**

- Select mode 6.
- Press the Power key (power off).
- Reinstall the diskette or adapter card at A-A1F2 or A-A2F2.
- Remove the tape DSA card at A-A2K2 and TCC at X position.
- Press the Power key (power on).
- Select mode 0.
- Enter FF00.
- Press the Load key.

**Did '135b' appear in the control panel display with a processor check?**

Y N

**033**

- Select mode 6.
- Press the Power key (power off).
- Remove card at A-A2E2.
- Install the card removed from A-A2K2 in the A-A2E2 position.
- Reinstall TCC in the X and Z position (if present).
- Press the Power key (power on).
- Select mode 0.
- Enter FF00.
- Press the Load key.

**Did '135b' appear in the control panel display with a processor check?**

Y N

**034**

- Select mode 6.
- Press the Power key (power off).
- Remove the card at A-A2E2 and reinstall it in the A-A2K2 position.
- Reinstall the TCC in the X position.
- Reinstall the A-A2E2 card.

Go to Page 7, Step 029, Entry Point H.

**035**

The card just removed from A-A2E2 is bad.

A  
A

V X A  
6 7 A

MAP 0105-8

**036**

Bad card:  
A-A2K2.

**037**

Bad diskette adapter card - replace it.  
A-A1F2  
A-A2F2 (only one will be in the system)  
---or---  
A-A1E2  
A-A2E2 (only one will be in the system).

**038**

- Select mode 6.
- Press the Power key (power off).
- Reinstall disk adapter card at A-A1C2 or A-A2C2 (and A-A2C4 if present).
- Reinstall the TCC(s) on the remaining cards. TCC(s) plug in the X (and Z).
- Press the Power key (power on).
- Select mode E.
- Enter FF00.
- Press the Load key.

**Did the DCP menu appear?**

Y N

**039**

Bad disk adapter card - replace it.  
A-A1C2  
A-A2C2  
A-A2C4 (if present)  
---or---  
A-A1E2  
A-A2E2 (only one will be in the system).  
- If 21ED, reconnect cables at J25 and J26 (05-240).

9  
A  
B

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Q R S U A  
5 5 5 6 B  
8

**Diskette CSIPL**  
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**040**

Bad disk adapter card - replace it.  
A-A1D2 (if present)  
A-A2D2 (if present)  
A-A2D4 (if present)  
---or---  
A-A1E2  
A-A2E2 (only one will be in the system).  
- If 21ED, reconnect cables at J25 and J26  
(05-240).

**041**

Loads correctly from diskette when wraps are bypassed and fails from disk when wraps are bypassed.  
- Go run disk MDIs.

**Does the system have 21ED disk drives?**

Y N

**042**

Go To Map 9700, Entry Point A.

**043**

Go To Map 9500, Entry Point A.

**044**

- Replace FRU or go to MAP indicated in the list.  
If you replace a FRU,  
Go To Map 0101, Entry Point B.

**045**

Go to Page 6, Step 023, Entry Point F.

**046**

Go to Page 6, Step 023, Entry Point F.

J K L N P  
4 4 4 5 5

MAP 0105-9

**047**

- Select mode 1.
- Press the System Reset key.
- Select mode E.
- Enter FF00.
- Press the Load key.

**Did DCP menu appear?**

Y N

**048**

Loads correctly from disk when bypassing wraps and fails from diskette when bypassing wraps.  
- Go run diskette diagnostics and MDI.  
Go To Map 0179, Entry Point A.

**049**

Loads correctly from both disk and diskette when wraps are bypassed.  
- Make sure all cards and cables are seated properly.  
- Run device MDIs in this sequence: printer, communications, diskette, disk, workstation, then tape (if tape is installed).

**050**

- Replace FRU or go to MAP indicated in the list. If you replace a FRU,  
Go To Map 0101, Entry Point B.

**051**

Go to Page 5, Step 019, Entry Point E.

**052**

Go to Page 5, Step 019, Entry Point E.

**053**

Go To Map 0179, Entry Point A.

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MAP 0105-9

C D E G H  
3 3 3 4 4

**Diskette CSIPL**

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**054**

- Replace FRU or go to MAP indicated in the list. If you replace a FRU,  
**Go To Map 0101, Entry Point B.**

**055**

**Go to Page 4, Step 015, Entry Point D.**

**056**

- Refer to General MIM sections 01-370 and 01-380 for wrap error definition and display information.
- Find the wrap error reference code in MAP 0116 for the FRU to replace or other action to be performed.

**057**

Work station problem.  
**Go To Map 7001, Entry Point AA.**

**058**

- Select mode E.  
**Is there a card in A-A1E2?**

Y N

**059**

Probe the following pin for good condition:

Up Light: Off  
Down Light: On

A-A2E2P06.

**Are the lights correct?**

Y N

**060**

**Go to Page 11, Step 070, Entry Point C.**

**061**

Bad card:  
A-A2E2.

A  
C

B A  
3 C

MAP 0105-10

**062**

Probe the following pin for good condition:

Up Light: Off  
Down Light: On

A-A1E2P06.

**Are the lights correct?**

Y N

**063**

**Go to Page 11, Step 070, Entry Point C.**

**064**

Bad card:  
A-A1E2.

**065**

CSIPL from diskette is correct.

- Do a power off/on sequence to establish a known system condition.
- Select mode 6.
- Press the Power key (power off) after the system powers down, then power up.
- Press the Power key (power on).  
CSIPL from disk is being tested.
- Press the Load key.

**Did SSP Sign-on screen appear (system console)?**

Y N

**066**

**Did the DCP menu appear?**

Y N

**067**

**Go to Page 5, Step 019, Entry Point E.**

**068**

**Is there a card in A-A1E2?**

Y N

1 1 1  
1 1 1  
A A A  
D E F

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MAP 0105-10



**069**

- Select mode 6.
- Press the Power key (power off).
- Remove card from A-A2E2.
- Press the Power key (power on).
- Select mode 0.
- Probe the following pin for good condition:

Up Light: Don't care  
Down Light: Off

A-A2E2P06.

**Are the lights correct?**

Y N

**070**

(Entry Point C)  
**Is A1M2 a 2-wide card?**

Y N

**071**

Bad card:  
A-A1B4  
---or---  
Bad cable:  
(if installed)  
from A-A1Z1 to A-A2Y1.

**072**

Bad card:  
A-A1M2  
---or---  
Bad cable:  
(if installed)  
from A-A1Z1 to A-A2Y1.

**073**

Bad card:  
A-A2E2.

**074**

- Select mode 6.
- Press the Power key (power off).
- Remove card from A-A1E2.
- Press the Power key (power on).
- Select mode 0.
- Probe the following pin for good condition:

Up Light: Don't care  
Down Light: Off

A-A1E2P06.

**Are the lights correct?**

Y N

**075**

**Go to Step 070, Entry Point C.**

**076**

Bad card:  
A-A1E2.

**077**

CSIPL worked correctly from both disk and diskette.  
**Do you have a failure symptom (given to you by the customer or by observation)**

Y N

**078**

MAP 0199 will CSIPL disk, run ERAP, run SYSTEST and the MDIs to check out the remainder of the system.  
**Go To Map 0199, Entry Point A.**

079

- See the symptom chart to see if the symptom you have is contained in the chart.

Symptom Chart

Failing symptoms	MAP or action
Power checks	0500,A
Temperature checks	0500,A
Won't power up	0101,C
Won't power down	0500,A
Won't IPL	0105,A
Processor checks	0105,A
Program checks	Talk to PSR
Work station problems	7001,AA
Wrap errors	0116,A
MIC messages	customer PD
Diskette failures	0179,A diskette MDI
Printer failures	5001,A printer MDI
10SR disk problem	9700,A
21ED disk problem	9500,A
Communications failures	3003,A
Tape drive	9900,A
1255 MCR	4100,A
Jobs run slow	0199,A
Media problems	Diskette, tape, commun- cations
CSU failure	CSU manual customer PD

Does the symptom you have match any in the chart?

Y N

080

MAP 0199 will continue to check out the system to isolate the problem.

081

- Go to MAP or procedure indicated by the chart.

**082**

**(Entry Point G)**

- Insert DIAG21/41.
- Select mode 1.
- Press the System Reset key.
- Select mode E.
- Enter FFF0.
- Press the Load key.

**Did the DCP menu appear?**

**Y N**

**083**

- Select mode 0.
- Enter FF00.
- Press the Load key.

**Did the SSP screen appear?**

**Y N**

**084**

**Go To Map 0121, Entry Point A.**

**085**

**Go To Map 0179, Entry Point A.**

**086**

**Does the system have 21ED disk(s)?**

**Y N**

**087**

**Go To Map 9700, Entry Point A.**

**088**

**Go To Map 9500, Entry Point A.**



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ENTRY POINTS

-----			
FROM	ENTER THIS MAP		
-----			
MAP	ENTRY	PAGE	STEP
NUMBER	POINT	NUMBER	NUMBER
-----			
0101	A	1	001
0199	A	1	001

001  
(Entry Point A)

MAP DESCRIPTION:  
This MAP contains the system reference codes 0000 through 19FF. Any code which is not listed in 0113, MAP 0114, MAP 0115, MAP 0116 or MAP 0118 is not a valid reference code.

Note: SRCs that have 00 in the left two positions normally indicates a program problem and a PSR should be informed. Any SRC with 00, 01 or 02 in the left two positions that show up in the CSP error log are program errors and are to be given to a PSR.

START CONDITIONS:  
A failure has occurred and has resulted in a 4 character code being logged or displayed. Each code represents a condition of failure.  
- Use the MAP reference to isolate to the failing FRU or FRU group.

Multiple Unit:  
- If a SRC points to two or more units (such as Drive A, Drive B), use ERAP to determine the failing unit.

Reference Code Index for MAP 0113

SRC	Device or Function	Device MAP Entry
01xx	Work station Display	7001,AA
02xx	Work station Printer	7001,AA
10xx	CSP/Channel	0105,A
12xx	MSP	1100,A
13xx	Data Storage Controller	9900,A, 0179,A
15xx	1255 MCR	1255 TM/DM
16xx	CSP/SS	0105,A
17xx	6157 Tape	None
18xx	Communications	3003,A
19xx	21ED Disk	9500,A

**System Reference Codes**

MAP 0113-3

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*****		Programming SRCs				*****	
0000	Program					With program check on--- Storage dump has been requested.	
0001	Program					With program check on--- Module ID not found in control storage library.	
0002	Program					With program check on--- Attempt to relocate a module that has no RLDs.	
0003	Program					With program check on--- Control storage module link, load addrs unequal.	
0004	Program					With program check on--- Dump requested by pressing stop key.	
0005	Program					With program check on--- Quiesce counter has negative value.	
0006	Program					With program check on--- Privileged operation issued in nonprivileged mode.	
0007	Program					With program check on--- Register stack underflow or overflow.	
0008	Program					With program check on--- Address translation error logging comm line data.	
0009	Program					With program check on--- Address translation error relocating MS module.	
0010	Program					With program check on--- Disk IOB parameters not	

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MAP 0113-3

**System Reference Codes**

MAP 0113-4

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						valid.
0011	Program					With program check on--- Permanent disk read error.
0012	Program					With program check on--- Dump requested because of hardware error.
0013	Program					With program check on--- Main storage program exception.
0014	Program					With program check on--- Main storage address access by MSP not valid.
0015	Program					With program check on--- Main storage op code not valid.
0016	Program					With program check on--- Storage dump has been requested.
0017	Program					With program check on--- Address translation error during load SVC.
0018	Program					With program check on--- Error stack overflow.
0020	Program					With program check on--- Timer queue part not valid
0021	Program					With program check on--- Address translation error on \$TRB parameter list.
0022	Program					With program check on--- System date flag found in Syscom not valid.
0023	Program					With program check on---

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MAP 0113-4



System Reference Codes

MAP 0113-5

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						Nonprivileged program issued timer load request.
0024	Program					With program check on--- Type specified with timer request not valid.
0025	Program					With program check on--- Nonprivileged pgm issued multitplewait timer req.
0026	Program					With program check on--- ITYPE specified with timer request not valid.
0027	Program					With program check on--- Negative time value specified with timer request.
0028	Program					With program check on--- Inline parm specified with timer request not valid.
0029	Program					With program check on--- Timer ID from \$SIT or \$RIT not valid.
0030	Program					With program check on--- Disk error during translated assign recovery
0031	Program					With program check on--- Permanent diskette error during IPL from diskette.
0032	Program					With program check on--- Address translation error moving main storage pgm.
0033	Program					With program check on--- Disk error--unrecoverable disk operation.

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MAP 0113-5

**System Reference Codes**

MAP 0113-6

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0034	Program					With program check on--- Disk error--unrecoverable hardware error.
0035	Program					With program check on--- Disk error--unrecoverable or sector not valid.
0036	Program					With program check on--- Disk error--no alternative sectors available.
0037	Program					With program check on--- Error TB address is not valid.
0038	Program					With program check on--- Disk error--data accessed may not be valid.
0039	Program					This is a test
***** Work station Controller SRCs *****						
0040	Hdwre - Program					Data set ready line inactive. --- OR --- With program check on--- Branch to a relocatable CS module that is not loaded.
0041	Hdwre - Program					Idle detected. --- OR --- With program check on--- System is in a wait or infinite loop.
0042	Hdwre					Receive clock failed.
0043	Hdwre					Data set ready line active (switched only).
0044	Hdwre					30 second time out

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MAP 0113-6

System Reference Codes

MAP 0113-7

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	-					(switched only).
	-					--- OR ---
	Program					With program check on--- Program is larger than main storage user area.
0045	Hdwre					Data set will not activate (X.25 only).
	-					--- OR ---
	Program					With program check on--- Task already in abnormal termination.
0046	Hdwre					Frame reject received (X.25 only).
	-					--- OR ---
	Program					With program check on--- Error ACE is the dump ACE.
0047	Hdwre					DM/Disc received (X.25 only).
	-					--- OR ---
	Program					With program check on--- Main storage 2K segment error.
0048	Program					With program check on--- Tape IOB parameters not valid.
0049	Program					With program check on--- Device-to-device IOB parameter not valid.
0050	Hdwre					Clear to send error.
	-					--- OR ---
	Program					With program check on--- Disk error--loading control storage module.
0051	Hdwre					Transmit clock failed.
0052	Hdwre					Transmit hardware error.
	-					--- OR ---

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MAP 0113-7

**System Reference Codes**

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	Program									With program check on--- Assign SVC or free SVC parameters not valid.
0053	Hdwre - - Program									T1 timer retry count expired (X.25 only). --- OR --- With program check on--- Disk error--loading control storage transient.
0054	Program									With program check on--- Sector address calculated on task work area request not valid.
0055	Program									With program check on--- Nonprivileged pgm accessing privileged transient.
0056	Program									With program check on--- Dump requested by SETDUMP utility.
0058	Program									With program check on--- I/O device address in a work station IOB not valid.
0059	Program									With program check on--- Permanent work station error during MSIFL.
****	Some 006x SRCs are counters set up to track remote									*****
****	Work station controller functions, or with program									*****
****	check ON, they are program errors.									*****
****	Read comments section carefully									*****
0060	RemWSC - - - - -									Appears in ERAP table for remote work station controller. (SDLC only) Counts the test frames received from the host system with CRC

System Reference Codes

MAP 0113-9

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	-				errors during a link test.
	-				--- OR ---
	-				(X.25 only) Counts all the
	-				'receive not ready'
	-				commands sent to the host
	-				system.
	-				--- OR ---
	Program				With program check on---
					Permanent assign failure.
0061	RemWSC				Appears in ERAP table for
	-				remote work station
	-				controller.
	-				(SDLC only) Counts the
	-				test frames received from
	-				the host system without
	-				CRC errors during a link
	-				test.
	-				--- OR ---
	-				(X.25 only) Counts all the
	-				'receive not ready'
	-				commands sent to the host
	-				system.
	-				--- OR ---
	Program				With program check on---
					Emulation instruction not
					valid.
0062	RemWSC				Appears in ERAP table for
	-				remote work station
	-				controller.
	-				Counts the underrun
	-				conditions found by the
	-				communications adapter.
	-				--- OR ---
	Program				With program check on---
					MCR IOB parameter not
					valid.
0063	RemWSC				Appears in ERAP table for
	-				remote work station
	-				controller.
	-				Counts the overrun

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	- - - Program				conditions found by the communications adapter. --- OR --- With program check on--- MCR IOB address must be a real address.
0064	RemWSC - - - - - - Program				Appears in ERAP table for remote work station Controller. Counts the loss of the 'receive line signal detect' signal during a receive operation. --- OR --- With program check on--- ATR load error on MCR IOB data buffer address.
0065	RemWSC - - - - - - Program				Appears in ERAP table for remote work station controller. Counts the loss of the 'clear to send' line during a transmit operation. --- OR --- With program check on--- ATR load error on logging MCR data.
0066	RemWSC - - - - - - Program				Appears in ERAP table for remote work station controller. Counts the loss of the 'data set ready' line during a transmit or receive operation. --- OR --- With program check on--- MCR ERB not found.
0067	RemWSC -				Appears in ERAP table for remote work station

System Reference Codes

MAP 0113-11

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	- - - - - - Program				controller. Counts the loss of the 'reject' commands sent by the work station controller. --- OR --- With program check on--- Disk error during MCR controller load.
0068	RemWSC - - - - - - - - - - Program				Appears in ERAP table for remote work station controller. Counts the frame or groups of frames that must be transmitted again by the work station controller to the host system because the host system did not receive them correctly. --- OR --- With program check on--- Program exceeds MAPMAX value.
0069	RemWSC - - - - - Program				Appears in ERAP table for remote work station controller. Counts the frames that were received that have a CRC error. --- OR --- With program check on--- Storage management failure
006A	RemWSC				Appears in ERAP table for remote work station controller. Counts the number of times an abort is received by the work station controller.
006b	RemWSC				Appears in ERAP table for

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MAP 0113-11

**System Reference Codes**

MAP 0113-12

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						remote work station controller. Counts the detected failures of the XLCA communications card.
006C	RemWSC					Appears in ERAP table for remote work station controller. Counts the number of times the T1 counter expires.
006d	RemWSC					Appears in ERAP table for remote work station controller. PDU retransmission (X.25 with ELLC).
006E	RemWSC					Appears in ERAP table for remote work station controller. Counts the number of information frames transmitted.
006F	RemWSC					Appears in ERAP table for remote work station controller. Counts the number of valid information frames received.
***** Work Station SRCs *****						
0070	Hdwre - - Program					Remote cluster feature hardware error. --- OR --- With program check on-- Diskette sector address not valid.
0071	Program					With program check on-- Emulation address not valid.



System Reference Codes

MAP 0113-13

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0072	Hdwre - - Program					Remote cluster feature  overrun.     --- OR ---   With program check on--  Read DSC storage IOB  parameter not valid.
0073	Hdwre					Remote cluster feature  write error.
0075	Program					With program check on--  Disk error--no disk  recovery block found.
0079	Program					With program check on--  SVC requested not valid.
0080	Program					With program check on--  Translated IOB not valid--  not mapped or not  permitted.
0081	Program					With program check on--  Translated buffer not  valid -- not aligned or  not mapped.
0082	Program					With program check on--  Translated parameter list  not valid--not mapped.
0083	Program					With program check on--  SVC map parameter list is  in error.
0084	Program					With program check on--  Zero quick-lock address  passed.
0085	Program					With program check on--  Communication IOB has  header length which is not  valid.

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MAP 0113-13

System Reference Codes

MAP 0113-14

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0086	Program									With program check on-- Post of communication ERB not valid.
0087	Program									With program check on-- XASGN request not valid.
0088	Program									With program check on-- XFREE request not valid.
0089	Program									With program check on-- CSP main storage program exception.
0090	Program									With program check on-- CSP main storage program exception.
0092	Program									With program check on-- I/O buffer is aligned on an odd byte boundry.
0093	Program									With program check on-- Control storage address not valid.
0094	Program									With program check on-- Control storage program timed out while looping.
0095	Program									With program check on-- Wild branch taken by a control storage program.
0096	Program									With program check on-- Power off command not valid.
0097	Program									With program check on-- Task work area deallocate request not valid.
0098	Hdwre -									Undefined remote hardware error.

System Reference Codes

MAP 0113-15

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	- Program					--- OR --- With program check on-- Not enough task work area reserved.
0100	36 W/S Display 60 WS cb1 30 A-A1J2 5 A-A1V4 4 - 72 W/S Display 60 WS cb1 30 A-A3T2 5 A-A3V4 4				WJ-100	The work station display has not responded to a command in the specified amount of time (127 micro seconds). Twinax/IBM cabling system Run network analysis.
0101	36 W/S A-A1J2 50 WS cb1 30 Display 16 A-A1V4 3 72 W/S A-A3T2 50 WS cb1 30 Display 16 A-A3V4 3 - Program	7001AA			WJ-100	Some condition is causing the twin-axial driver/ receiver to fail.  --- OR --- With program check on-- Device unit block has a device ID which is not valid. Twinax/IBM cabling system Run network analysis.
0102	Program					With program check on-- \$NUPD was called for an unsupported function.
0103	36 W/S Noise 60 WS cb1 30 A-A1V4 5 Display 3 A-A1J2 2 - 72 W/S Noise 60 WS cb1 30	7001AA			WJ-100	A parity error has been detected by the work station attachment. The most probable cause is noise. Twinax/IBM cabling system Run network analysis.

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MAP 0113-15

System Reference Codes:

MAP 0113-16

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	A-A3V4	5				
	Display	3				
	A-A3T2	2				
0104	36 W/S					A parity error has been detected by the work station attachment. The most probable cause is noise.
	Noise	60				
	WS cb1	30				
	Display	4				
	A-A1V4	4				
	A-A1J2	2			WJ-100	
	-					Twinax/IBM cabling system
	72 W/S					Run network analysis.
	Noise	60				
	WS cb1	30				
	Display	4				
	A-A3V4	4				
	A-A3T2	2				
0105	Hdwre					Work station not accessible.
	-					--- OR ---
	-					With program check on--
	Program					POSTI failure of a task.
0106	36 W/S					A byte count error has been detected by the work station attachment.
	Display	40	7001AA			
	WS cb1	8				
	A-A1J2	4			WJ-100	
	A-A1V4	2				
	72 W/S					--- OR ---
	Display	40				With program check on--
	WS cb1	8				Task work area SVC cannot honor WSWA get/put request.
	A-A3T2	4				Twinax/IBM cabling system
	A-A3V4	2				Run network analysis.
	-					
	Program					
0107	Hdwre					Wrong work station responded.
	-					--- OR ---
	-					With program check on--
	Program					Task work area deallocate request not valid.

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MAP 0113-16

System Reference Codes

MAP 0113-17

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0108	36 W/S Display 95 A-A1J2 2 WS cb1 1 A-A1V4 1 72 W/S Display 95 A-A3T2 2 WS cb1 1 A-A3V4 1 - Program	7001AA	WJ-100	The work station display was reset at the wrong time.  --- OR --- With program check on-- Task work area base ID does not exist. Twinax/IBM cabling system Run network analysis.
0109	36 W/S Noise 40 Display 30 A-A1J2 20 WS cb1 8 A-A1V4 2 72 W/S Noice 40 Display 30 A-A3T2 20 WS cb1 8 A-A3V4 2 Program	7001AA	WJ-100	The work station display did not respond to a command from the work station attachment. Noise is the most probable cause  --- OR --- With program check on-- Task work area operation not valid. Twinax/IBM cabling system Run network analysis.
0110	Program			With program check on-- WRK SVC parameter list is in error.
0111	36 W/S Display 80 WS cb1 10 A-A1J2 5 A-A1H2 4 A-A1V4 1 - 72 W/S Display 80 WS cb1 10 A-A3T2 5 A-A3S2 4 A-A3V4 1		WJ-100 WH-100	Scan code for work station display not valid.

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	- Program					--- OR --- With program check on-- Active mapping count underflow. Twinax/IBM cabling system Run network analysis.
0112	Program					With program check on-- CSP accessed a main storage address which is not valid.
0113	Program					With program check on-- I/O operation issued to active IOB.
0120	36 W/S Noise 40 Display 25 A-A1J2 20 WS cb1 8 A-A1H2 5 A-A1V4 2 72 W/S Noise 40 Display 25 A-A3T2 20 WS cb1 8 A-A3S2 5 A-A3V4 2	7001AA				The command sent to the work station display was not a valid command. WJ-100 Noise is the most probable cause. WH-100 Twinax/IBM cabling system Run network analysis.
0121	36 W/S Noise 40 Display 25 A-A1J2 20 WS cb1 8 A-A1H2 5 A-A1V4 2 72 W/S Noise 40 Display 25 A-A3T2 20 WS cb1 8 A-A3S2 5	7001AA				The address counter value sent to the work station display was too large. WJ-100 Noise is the most probable cause. WH-100 Twinax/IBM cabling system Run network analysis.

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	A-A3V4	2				
0122	36 W/S					
	A-A1J2	35	7001AA		WJ-100	The amount of command bytes sent to the work station display was too large.
	A-A1H2	35			WH-100	
	Display	20				Twinax/IBM cabling system Run network analysis.
	WS cb1	8				
	A-A1V4	1				
	72 W/S					
	A-A3T2	35				
	A-A3S2	35				
	Display	20				
	WS cb1	8				
	A-A3V4	1				
0123	36 W/S					
	Noise	40	7001AA			The address counter value sent to the work station display was not a valid value. Noise is the most probable cause.
	Display	25			WJ-100	
	A-A1J2	20			WH-100	Twinax/IBM cabling system Run network analysis.
	WS cb1	8				
	A-A1H2	5				
	A-A1V4	2				
	72 W/S					
	Noise	40				
	Display	25				
	A-A3T2	20				
	WS cb1	8				
	A-A3S2	5				
	A-A3V4	2				
0124	36 W/S					
	Noise	40	7001AA			A not valid activate command was sent to the work station display Noise is the most probable cause.
	Display	25			WJ-100	
	A-A1J2	20			WH-100	Twinax/IBM cabling system Run network analysis.
	WS cb1	8				
	A-A1H2	5				
	A-A1V4	2				
	72 W/S					
	Noise	40				
	Display	25				
	A-A3T2	20				
	WS cb1	8				
	A-A3S2	5				
	A-A3V4	2				

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0125	36 W/S Display	30	7001AA			The work station display has reported an error, but the status is not valid.
	WS cb1	8				
	A-A1H2	5			WH-100	
	A-A1J2	5			WJ-100	
	A-A1V4	2				Twinax/IBM cabling system
	72 W/S Display	30				Run network analysis.
	WS cb1	8				
	A-A3S2	5				
	A-A3T2	5				
	A-A3V4	2				
0127	36 W/S Display	25	7001AA			The address counter value sent to an IGC work station display in extended character mode was too large.
	A-A1J2	20			WJ-100	
	WS cb1	8				
	A-A1H2	5			WH-100	
	A-A1V4	2				Twinax/IBM cabling system
	72 W/S Display	25				Run network analysis.
	A-A3T2	20				
	WS cb1	8				
	A-A3S2	5				
	A-A3V4	2				
0149	A-A1H2	40	7001AA		WH-100	The work station attachment has reported an error, but the error status is not valid.
0181	Hdwre					Magnetic stripe reader error.
0182	Hdwre					Device type error.
0183	Hdwre					Wrong size display assemble.
0184	Hdwre					Wrong keyboard ID.
0185	Hdwre					Wrong keyboard specified.

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	A-A1V4	4							Twinax/IBM cabling system
	72 W/S								
	Printer	60							
	WS cb1	30							
	A-A3T2	5							
	A-A3V4	4							
0201	36 W/S								
	A-A1J2	50	7001AA					WJ-100	Some condition is causing the twinax driver receiver to fail work station.
	WS cb1	30							
	Printer	16							
	A-A1V4	3							
	72 W/S								
	A-A3T2	50							
	WS cb1	30							
	Printer	16							
	A-A3V4	3							
	-								
	Program								--- OR --- With program check on-- Assign failure on external DCB. Twinax/IBM cabling system
0202	Program								With program check on-- Disk error--loading file subsystem transient.
0203	36 W/S								
	Noise	60	7001AA						A parity error has been detected by the work station attachment. The most probable cause is noise.
	WS cb1	30							
	A-A1V4	5							
	Printer	3							
	A-A1J2	2						WJ-100	
	72 W/S								
	Noise	60							
	WS cb1	30							
	A-A3T2	2							
	Printer	3							
	A-A3V4	5							
	-								
	Program								--- OR --- With program check on-- Block count < threshold on assign of internal DCB. Twinax/IBM cabling system
0204	36 W/S								
	Noise	60	7001AA						A parity error has been detected by the work station printer. The most probable cause is noise.
	WS cb1	30							
	Printer	4							
	A-A1V4								

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	A-A1J2	2			WJ-100	
	72 W/S					
	Noise	60				
	WS cbl	30				
	A-A3V4	4				---
	Printer	4				OR ---
	A-A3T2	2				With program check on--
	-					Block count < threshold on
	Program					free of external DCB.
						Twinax/IBM cabling system
0205	Hdwre					Work station not
	-					accessible.
	-					---
	Program					OR ---
						With program check on--
						DSC register stack
						underflow/overflow.
0206	36 W/S					A byte count error has
	Printer	40	7001AA		WJ-100	been detected by the work
	A-A1J2	20				station attachment.
	WS cbl	8				
	A-A1V4	2				
	72 W/S					
	Printer	40				
	A-A3T2	20				---
	WS cbl	8				OR ---
	A-A3V4	2				With program check on--
	-					IOB found in DCB not
	Program					valid.
						Twinax/IBM cabling system
0207	Hdwre					Wrong work station
	-					responded.
	-					---
	Program					OR ---
						With program check on--
						ATR error from DSC -- data
						buffer length is not
						valid.
0208	36 W/S					The work station printer
	Printer	95	7001AA		WJ-100	was reset at the wrong
	A-A1J2	2				time.
	A-A1V4	1				---
	WS cbl	1				OR ---
	72 W/S					With program check on--
						Buffer address in buffer

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	Printer	95								deallocation in the DSC not valid.
	A-A3T2	2								Twinax/IBM cabling system.
	A-A3V4	1								
	WS cbl	1								
	-									
	Program									
0209	36 W/S									
	Noise	40	7001AA							The work station printer did not respond to a command from the work station attachment. Noise is the most probable cause
	Printer	30								---
	A-A1J2	20								OR
	WS cbl	8								---
	A-A1V4	2								With program check on--
	-									No buffer space for diskette ERP under device-to-device.
	72 W/S									Twinax/IBM cabling system.
	Noise	40								
	Printer	30								
	A-A3T2	20								
	WS cbl	8								
	A-A3V4	2								
	-									
	Program									
0211	Hdwre									Machine check - 5219/5224/5225/4234/work station printers.
	-									---
	-									OR
	-									---
	-									DMA operation time-out for 5553/5557 work station printers.
	-									---
	-									OR
	-									---
	Program									With program check on-- Device ID in IOB on return from DSC not valid.
0212	Hdwre									Machine check - 5219 work station printers.
	-									---
	-									OR
	Program									---
										With program check on-- SIO logging IOB not valid.
0214	Program									With program check on-- SMF IOB not valid.

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0220	36 W/S						The command sent to the work station was not a valid command. Noise is most probable cause.
	Noise	40	7001AA				
	Printer	25					
	A-A1J2	20			WJ-100		
	WS cb1	8					
	A-A1H2	5			WH-100		
	A-A1V4	2				Twinax/IBM cabling system	
	-						
	72 W/S						
	Noise	40					
	Printer	25					
	A-A3T2	20					
	WS cb1	8					
	A-A3S2	5					
A-A3V4	2						
-----							
0221	36 W/S						The work station printer has reported an error. The exception status is not valid.
	Printer	30	7001AA				
	WS cb1	8					
	A-A1H2	5			WH-100		
	A-A1J2	5			WJ-100		
	A-A1V4	2				Twinax/IBM cabling system	
	-						
	72 W/S						
	Printer	30					
	WS cb1	8					
	A-A3S2	5					
	A-A3T2	5					
	A-A3V4	2					
	-----						
0222	36 W/S						The number of command bytes sent to the work station printer was too large.
	A-A1H2	35	7001AA			WH-100	
	A-A1J2	35			WJ-100		
	Printer	20					
	WS cb1	5					
	A-A1V4	1				Twinax/IBM cabling system	
	-						
	72 W/S						
	A-A3S2	35					
	A-A3T2	35					
	Printer	20					
	WS cb1	5					
	A-A3V4	1					
	-----						

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0223	36 W/S Printer	50	7001AA			The work station printer did not respond to an active command and did not report a parity error.
	WS cb1	8				
	A-A1H2	5			WH-100	
	A-A1J2	5			WJ-100	
	A-A1V4	2				Twinax/IBM cabling system
	-					
	72 W/S Printer	50				
	WS cb1	8				
	A-A3S2	5				
	A-A3T2	5				
	A-A3V4	2				
-----						
0224	36 W/S Noise Printer	40 25	7001AA			A not valid activate command was sent to the work station printer.
	A-A1J2	20			WJ-100	Noise is the most probable cause.
	WS cb1	8				
	A-A1H2	2			WH-100	
	A-A1V4	2				Twinax/IBM cabling system
	-					
	72 W/S Noise Printer	40 25				
	A-A3T2	20				
	WS cb1	8				
	A-A3S2	2				
	A-A3V4	2				
-----						
0225	36 W/S Printer	30	7001AA			The work station printer has reported an error. Undefined exception status
	WS cb1	8				
	A-A1H2	5			WH-100	
	A-A1J2	5			WJ-100	
	A-A1V4	2				Twinax/IBM cabling system
	-					
	72 W/S Printer	30				
	WS cb1	8				
	A-A3S2	5				
	A-A3T2	5				
	A-A3V4	2				
-----						

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0226	Printer	99	7001AA					The work station printer has reported an unprintable character. See the work station printer MIM.
0228	Printer	99	7001AA					Printer data stream command not valid. See the work station printer MIM.
0229	Printer	99	7001AA					Printer data stream parameter not valid. See the work station printer MIM.
0230	Printer	99	7001AA					Printer mechanism not ready. See the work station printer MIM.
0231	Printer	99	7001AA					Print check. See the work station printer MIM.
0232	Printer - - - - Program	99	7001AA					The work station printer has reported a unit error. See the work station printer MIM. --- OR --- With program check on-- OXREF resident table exceeded.
0233	Printer - - - - Program	99	7001AA					The work station printer has reported a unit error. See the work station printer MIM. --- OR --- With program check on-- Cannot free this library format-1 -- has active owners.

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0234	Printer	99				The work station printer  has reported a unit error.  See the work station  printer MIM.
0235	Printer - - - Program	99	7001AA			The work station printer  has reported a unit error.  See the work station  printer MIM.   --- OR ---   With program check on--  Program check in  termination exit routine.
0236	Printer	99				Print check.  See the work station  printer MIM.
0237	Printer	99				Print check.  See the work station  printer MIM.
0238	Printer	99				Print check.  See the work station  printer MIM.
0239	Printer - - - Program	99	7001AA			The work station printer  has reported a unit error.  See the work station  printer MIM.   --- OR ---   With program check on--  SSP not valid.
0240	Printer - - - Program	99	7001AA			The work station printer  has reported a unit error.  See the work station  printer MIM.   --- OR ---   With program check on--  Program tried to cancel a  noncancelable task.
0241	Printer	99	7001AA			The work station printer



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	- - - - Program					has reported a unit error. See the work station printer MIM. --- OR --- With program check on-- Disk error while condensing the system library.
0242	Printer - - - Program	99	7001AA			The work station printer has reported a unit error. See the work station printer MIM. --- OR --- With program check on-- Deallocate or termination found PSB with no TUB.
0243	Printer - - - Program	99	7001AA			The work station printer has reported a unit error. See the work station printer MIM. --- OR --- With program check on-- Command processor task or user task has no JCB.
0244	Printer - - - Program	99	7001AA			The work station printer has reported a unit error. See the work station printer MIM. --- OR --- With program check on-- MICs 3700, 3712, 3713 not found in ##MSG2 member.
0245	Printer - - - Program	99	7001AA			The work station printer has reported a unit error. See the work station printer MIM. --- OR --- With program check on-- MICs 3710 or 3711 not found in ##MSG2 member.

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0246	Printer	99	7001AA		<p>The work station printer has reported a unit error. See the work station printer MIM.</p> <p>--- OR ---</p> <p>With program check on-- Syslog function called by the command processor.</p>
0247	Printer	99	7001AA		<p>The work station printer has reported a unit error. See the work station printer MIM.</p> <p>--- OR ---</p> <p>With program check on-- IBM module has WTG table which is not valid or format index table.</p>
0248	Printer	99	7001AA		<p>The work station printer has reported a unit error. See the work station printer MIM.</p> <p>--- OR ---</p> <p>With program check on-- Library/file use count is less than zero.</p>
0249	Printer	99	7001AA		<p>The work station printer has undefined error status See the work station printer MIM.</p> <p>--- OR ---</p> <p>With program check on-- Required SSP module not found during MS IPL.</p>
0250	Printer	99	7001AA		<p>Forms jam or end of forms. See the work station printer MIM.</p> <p>--- OR ---</p> <p>With program check on-- Format-5 extents partially</p>

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						free during file delete.
0251	Printer	99	7001AA			Printer not available. See the work station printer MIM. --- OR --- With program check on-- Format-5 file count is less than zero.
0252	Program					With program check on-- An AFA Format 1 has a file type not valid.
0253	Program					With program check on-- Unexpected return code from diskette VTOC R/W.
0254	Program					With program check on-- Unexpected return code from disk VTOC access.
0255	Printer					Shared printer busy. --- OR --- With program check on-- SDLC detected communications failure.
0258	Printer	99	7001AA			End of ribbon. See the work station printer MIM.
0259	36 W/S					Some condition is causing the twinaxial driver/ receiver to fail. See MAP 7001. Twinax/IBM cabling system
	A-A1J2	50				
	WS cb1	30				
	Wrkstn	16				
	A-A1V4	3				
	-					
	72 W/S					
	A-A3T2	50				
	WS cb1	30				
	Wrkstn	16				
	A-A3V4	3				

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0260	36 W/S					The work station failed its hardware interrupts level test. See MAP 7001.
	A-A1J2	40				
	A-A1H2	30				
	Wrkstn	20				
	WS cb1	8				
	A-A1V4	2				Twinax/IBM cabling system
	-					
	72 W/S					
	A-A3T2	40				
	A-A3S2	30				
	Wrkstn	20				
	WS cb1	8				
	A-A3V4	2				
-----						
0261	Wrkstn	75				Display stations and/or printers on a port are not responding. Go to the device maintenance manual(s) and MAP 7001. Twinax/IBM cabling system
	WS cb1	25				
-----						
0266	Printer	99	7001AA			The work station printer (5219) has a data stream error. See the work station printer MIM.
-----						
0267	Printer	99	7001AA			The work station printer (5219) has a data stream error. See the work station printer MIM.
-----						
0268	Printer	99	7001AA			The work station printer (5219) has a data stream error. See the work station printer MIM.
-----						
0269	Printer	99	7001AA			The work station printer (5219) has a data stream error. See the work station printer MIM.

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0281	Printer	99	7001AA			The work station printer has a cover check or machine check. See the work station printer MIM.
0283	Printer	99	7001AA			The work station printer has a print check. See the work station printer MIM.
0284	Printer	99	7001AA			The work station printer has a print check. See the work station printer MIM.
0285	Printer	99	7001AA			The work station printer has a print check. See the work station printer MIM.
0286	Printer	99	7001AA			The work station printer has a print check. See the work station printer MIM.
0287	Printer	99	7001AA			The work station printer has a machine check. See the work station printer MIM.
0288	Printer	99	7001AA			The work station printer has a ribbon jam. See the work station printer MIM.
0289	Printer	99	7001AA			The work station printer has a ribbon jam. See the work station printer MIM.
0290	Printer	99	7001AA			The work station printer has not changed the even/

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					odd time out bit in 8 seconds indicating a work station printer error.
0291	Printer	99	7001AA		The work station printer has not completed a command inside of 8 seconds indicating a work station printer error.
***** MSP 0bxx *****					
0bXX			0105A		Display LSR 0d. XX may be 00 to FF. If the contents are between dA01-dAff and the Processor Check light is on, replace A-A1P2 and A-A1Q2 with new FRUs.
***** CSP and Channel 10xx *****					
1001	A-A1N2	92			CN-1XX A system bus P check occurred during I/O instruction.
	A-A1M2	2			CL-1XX
	A-A1L2	2			CK-1XX MS = main storage
	MS	1			CQ-1XX
	A-A1Q2	1			CP-1XX
	A-A1P2	1			AB-1XX
	A-A1 Bd	1			
1002	A-A1N2	95			CN-1XX A sys bus P check occurred during cycle steal.
	A-A1M2	1			CL-1XX
	MS	1			CU-1XX MS = main storage.
	A-A1Q2	1			CQ-1XX
	A-A1P2	1			CP-1XX
	A-A1L2	1			CK-1XX
1003	A-A1N2	92			CN-1XX A SDR P check occurred.
	A-A1M2	2			CL-1XX
	A-A1L2	2			CK-1XX MS = main storage.
	MS	1			CQ-1XX
	A-A1Q2	1			CP-1XX
	A-A1P2	1			AB-1XX
	A-A1 Bd	1			
1004	A-A1N2	92			CN-1XX A SDR P check occurred.
	A-A1M2	2			CL-1XX

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	A-A1L2	2			CK-1XX	
	MS	1				MS = main storage.
	A-A1Q2	1			CQ-1XX	
	A-A1P2	1			CP-1XX	
	A-A1 Bd	1			AB-1XX	
1005	A-A1N2	96			CN-1XX	A MDR parity check
	A-A1M2	1			CL-1XX	occurred.
	A-A1L2	1			CK-1XX	
	A-A1Q2	1			CQ-1XX	
	A-A1 Bd	1			AB-1XX	
1041	A-A1N2	73			CN-1XX	The data written to
	A-A1L2	23			CK-1XX	storage had bad parity.
	A-A1Q2	1			CQ-1XX	
	A-A1M2	1			CL-1XX	
	A-A1P2	1			CP-1XX	
	A-A1 Bd	1			AB-1XX	
1042	A-A1L2	77			CP-1XX	The data written to
	A-A1N2	19			CN-1XX	storage during a cycle
	A-A1M2	1			CL-1XX	steal had bad parity.
	A-A1P2	1			CP-1XX	
	A-A1Q2	1			CQ-1XX	
	A-A1 Bd	1			AB-1XX	
1043	A-A1N2	99			CN-1XX	There was an unrecoverable
						error when data was read
						from storage.
1044	A-A1N2	99			CN-1XX	There was an unrecoverable
						error when data was read
						from storage during a
						cycle steal.
1045	A-A1N2	34			CN-1XX	A SDR parity check
	A-A1M2	31			CL-1XX	occurred.
	A-A1L2	25			CK-1XX	
	MS	6				MS = main storage
	A-A1Q2	2			CQ-1XX	
	A-A1P2	1			CP-1XX	
	A-A1 Bd	1			AB-1XX	
1046	A-A1N2	73			CN-1XX	A MDR parity check

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	A-A1M2	23				CL-1XX	occurred.
	A-A1Q2	1				CQ-1XX	
	A-A1L2	1				CQ-1XX	
	A-A1P2	1				CP-1XX	
	A-A1 Bd	1				AB-1XX	
1070	A-A1M2	79					The data written to
	A-A1Q2	12					storage had bad parity
	A-A1U2	6					A-A1U2 is a 512Kb storage
	A-A1L2	1					card.
	A-A1P2	1					
	A-A1 Bd	1					
1071	A-A1M2	79					The data written to
	A-A1Q2	12					storage had bad parity
	A-A1T2	6					A-A1T2 is a 512Kb storage
	A-A1L2	2					card.
	A-A1P2	1					
1072	A-A1M2	79					The data written to
	A-A1Q2	12					storage had bad parity
	A-A1S2	6					A-A1S2 is a 512Kb storage
	A-A1L2	2					card.
	A-A1P2	1					
1073	A-A1M2	75				CL-1XX	The data written to
	A-A1Q2	12				CQ-1XX	storage had bad parity.
	A-A1R2	10				CR-1XX	A1R2 is a 256Kb storage
	A-A1L2	1				CK-1XX	card.
	A-A1P2	1				CP-1XX	
1074	A-A1U2	50				CU-1XX	The data written to
	A-A1M2	40				CU-1XX	storage had bad parity.
	A-A1Q2	7				CL-1XX	A1U2 is a 128kb storage
	A-A1L2	1				CQ-1XX	card.
	A-A1P2	1				CK-1XX	
	A-A1 Bd	1				CP-1XX	
						AB-1XX	
1075	A-A1T2	50				CT-1XX	Main storage write parity
	A-A1M2	40				CL-1XX	check. A1T2 is a 128Kb
	A-A1Q2	7				CQ-1XX	storage card.
	A-A1L2	1				CK-1XX	
	A-A1P2	1				CP-1XX	

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1076	A-A1S2	50					The data written to storage had bad parity
	A-A1M2	40					A-A1S2 is a 128Kb storage card.
	A-A1Q2	7					
	A-A1L2	1					
	A-A1P2	1					
1077	A-A1R2	50					The data written to storage had bad parity
	A-A1M2	40					A-A1S2 is a 128Kb storage card.
	A-A1Q2	7					
	A-A1L2	1					
	A-A1P2	1					
1078	A-A1M2	74			CU-1XX		The data written to storage had bad parity.
	A-A1Q2	12			CL-1XX		A1U2 is a 256Kb storage card.
	A-A1U2	10			CQ-1XX		
	A-A1L2	1			CK-1XX		
	A-A1P2	1			CP-1XX		
	A-A1 Bd	1			AB-1XX		
1079	A-A1M2	75			CT-1XX		Main storage write parity check.
	A-A1Q2	12			CL-1XX		A1T2 is a 256Kb storage card.
	A-A1T2	10			CQ-1XX		
	A-A1L2	1			CK-1XX		
	A-A1P2	1			CP-1XX		
107A	A-A1M2	75			CL-1XX		The data written to storage had bad parity.
	A-A1Q2	12			CQ-1XX		A1S2 is a 256Kb storage card.
	A-A1S2	10			CS-1XX		
	A-A1L2	1			CK-1XX		
	A-A1P2	1			CP-1XX		
107C	A-A1M2	79					The data written to storage had bad parity
	A-A1Q2	12					A-A1R2 is a 512Kb storage card.
	A-A1R2	6					
	A-A1L2	2					
	A-A1P2	1					
1080	A-A1Q2	60					Main storage write parity check.
	A-A1U2	38					A-A1U2 is a 512Kb storage card.
	A-A1P2	1					
	A-A1L2	1					
1081	A-A1Q2	60					Main storage write

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	A-A1T2  38				parity check.
	A-A1P2   1				A-A1T2 is a 512Kb storage
	A-A1L2   1				card.
1082	A-A1Q2  60				Main storage write
	A-A1S2  38				parity check.
	A-A1P2   1				A-A1S2 is a 512Kb storage
	A-A1L2   1				card.
1083	A-A1R2  50			CR-1XX	Main storage write
	A-A1Q2  48			CQ-1XX	parity check.
	A-A1P2   1			CP-1XX	A1R2 is a 256Kb storage
	A-A1L2   1			CK-1XX	card.
1084	A-A1U2  87			CU-1XX	Main storage write parity
	A-A1Q2  11			CQ-1XX	check. A1U2 is a 128Kb
	A-A1P2   1			CP-1XX	storage card.
	A-A1L2   1			CK-1XX	
1085	A-A1T2  87			CT-1XX	Main storage write parity
	A-A1Q2  11			CQ-1XX	check. A1T2 is a 128Kb
	A-A1P2   1			CP-1XX	storage card.
	A-A1L2   1			CK-1XX	
1086	A-A1S2  87				Main storage write
	A-A1Q2  11				parity check.
	A-A1P2   1				A-A1S2 is a 128Kb storage
	A-A1L2   1				card.
1087	A-A1R2  87				Main storage write
	A-A1Q2  11				parity check.
	A-A1P2   1				A-A1R2 is a 128Kb storage
	A-A1L2   1				card.
1088	A-A1U2  50			CU-1XX	Main storage write parity
	A-A1Q2  48			CQ-1XX	check. A1U2 is a 256Kb
	A-A1P2   1			CP-1XX	storage card.
	A-A1L2   1			CK-1XX	
1089	A-A1T2  50			CT-1XX	Main storage write parity
	A-A1Q2  48			CQ-1XX	check. A1T2 is a 256Kb
	A-A1P2   1			CP-1XX	storage card.
	A-A1L2   1			CK-1XX	

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108A	A-A1S2	50			CS-1XX	Main storage write
	A-A1Q2	48			CQ-1XX	parity check.
	A-A1P2	1			CP-1XX	A1S2 is a 256Kb storage
	A-A1L2	1			CK-1XX	card.
-----						
108C	A-A1Q2	60				Main storage write
	A-A1R2	38				parity check.
	A-A1P2	1				A-A1R2 is a 512Kb storage
	A-A1L2	1				card.
-----						
1091	A-A1E2/	75			CE-1XX	DBI parity check during
	A-A2E2/				CK-1XX	a cycle steal from the
	A-A2J2					disk or diskette.
	A-A1L2	20				
	X-0ver	5				
-----						
1092	A-A3S2/	75			CS-1XX	DBI parity check during
	A-A3P2				CK-1XX	a cycle steal from the
	A-A1L2	20				Communications controller.
	X-0ver	5				
-----						
1093	A-A1N2	75			CN-1XX	DBI parity check during
	A-A1L2	25			CK-1XX	a cycle steal from the
						work station controller.
-----						
1094	A-A1H2	25			CH-1XX	Not valid device address
	A-A1E2/	25			CE-1XX	during a cycle steal.
	A-A2E2/				CS-1XX	
	A-A2J2				CK-1XX	
	A-A3S2/	25				
	A-A3P2					
	A-A1L2	25				
-----						
1095	A-A1E2/	20			CE-1XX	Wrong response to a sense
	A-A2E2/				CH-1XX	interrupt level status
	A-A2J2				CS-1XX	byte (SISLB) command on
	A-A1H2	20			CT-1XX	IL4.
	A-A2S2	20			CK-1XX	
	A-A2T2	20				
	A-A2K2	20				
-----						
1096	A-A1E2/	33			CE-1XX	Not a valid main storage
	A-A2E2/				CL-1XX	address and sys bus P
	A-A2J2				CK-1XX	check during a cycle

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	A-A1M2	33					steal to the DSA.
	A-A1L2	33					
10A1	A-A3S2/	80				CS-1XX	Not a valid main storage
	A-A3P2					CL-1XX	Address during a cycle
	A-A1M2	10				CK-1XX	steal from/to the
	A-A1L2	10					communications controller.
10A2	A-A1E2/	80				CE-1XX	Not a valid main storage
	A-A2E2/					CL-1XX	Address during a cycle
	A-A2J2					CK-1XX	steal from/to the file.
	A-A1M2	10					
	A-A1L2	10					
10A3	A-A1H2	80				CH-1XX	Not a valid main storage
	A-A1M2	10				CL-1XX	address during a cycle
	A-A1L2	10				CK-1XX	steal from/to the work
							station.
10A4	A-A1E2/	33				CE-1XX	Cycle steal timeout during
	A-A2E2/					CL-1XX	a cycle steal to/from the
	A-A2J2					CK-1XX	disk or diskette.
	A-A1M2	33					
	A-A1L2	33					
10A5	A-A3S2/	33				CS-1XX	Cycle steal timeout during
	A-A3P2					CL-1XX	a cycle steal to/from the
	A-A1M2	33				CK-1XX	Communications controller.
	A-A1L2	33					
10A6	A-A1H2	80				CH-1XX	Cycle steal timeout during
	A-A1M2	10				CL-1XX	a cycle steal to/from the
	A-A1L2	10				CK-1XX	work station controller.
10d3	A-A1M2	51				CL-1XX	System bus check during a
	A-A1N2	17				CN-1XX	cycle steal to the disk
	A-A1U2	16				CU-1XX	or diskette.
	A-A1Q2	10				CQ-1XX	
	A-A1L2	4				CK-1XX	
	A-A1P2	1				CP-1XX	
	A-A1E2/	1				CE-1XX	
	A-A2E2/						
	A-A2J2						

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10d4	A-A3S2/	33				CS-1XX	Not a valid main storage
	A-A3P2					CK-1XX	address and sys bus P
	A-A1M2	33				CK-1XX	check during a cycle steal
	A-A1L2	33					to the communications controller.
-----							
10d5	A-A1H2	33				CH-1XX	Not a valid main storage
	A-A1M2	33				CK-1XX	address and a sys bus P
	A-A1L2	33				CK-1XX	check during a CS to/from the work station controller.
-----							
10d8	A-A3S2/	90				CS-1XX	A channel check occurred
	A-A1K2					CT-1XX	during an I/O instruction
	A-A1L2	10				CK-1XX	to the data communications attachment (DBO P chk, DBI P chk, I/O timeout, not valid adr).
-----							
10d9	A-A3P2	90					
	A-A1L2	10					
-----							
10dA	A-A1E2/	90				CE-1XX	A channel check occurred
	A-A2E2/					CK-1XX	during an I/O instruction
	A-A2J2					CK-1XX	to the disk or diskette
	A-A1L2	10					(DBO P chk, DBI P chk, I/O timeout, not valid adr).
-----							
10db	A-A3S2/	50				CS-1XX	Wrong response to a sense
	A-A3P2/					CT-1XX	interrupt level status
	A-A1K2					CK-1XX	byte (SILSB) command on
	A-A1L2	50					I/L2.
-----							
10dC	A-A1H2	90				CH-1XX	A channel check occurred
	A-A1L2	10				CK-1XX	during an I/O instruction
						CK-1XX	to the work station controller (DBO P chk, DBI P chk, I/O timeout, not valid adr).
-----							
10dE	A-A2T2	45				CT1XXX	A channel check occurred
	A-A1L2	45				CK-1XX	during an I/O instruction
						CK-1XX	to the 3262 printer (DBO P chk, DBI P chk, I/O

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						timeout, not valid adr).
10E1	A-A1M2	90			CL-1XX	X-register parity check.
	A-A1N2	10				
10E2	A-A1M2	90			CL-1XX	SAR parity check.
	A-A1N2	10				
10E3	A-A1M2	90			CL-1XX	Not a valid control storage address.
	A-A1N2	10				
10E4	A-A1M2	90			CL-1XX	Storage time out check.
	A-A1N2	10				
10E5	A-A1M2	90			CL-1XX	Storage time out check.
	A-A1N2	10				
10E6	A-A1M2	90			CL-1XX	SAR parity check during
	A-A1N2	10				
10E7	A-A1M2	62			CL-1XX	Time out check.
	A-A1Q2	17			CQ-1XX	
	A-A1N2	17			CK-1XX	
	A-A1P2	3			CP-1XX	
	A-A1 Bd	1				
10E8	A-A1M2	59			CL-1XX	Wrong ECC write parity error.
	A-A1Q2	41			CQ-1XX	
	A-A1N2	1				
10E9	A-A1M2	51			CL-1XX	A system bus P check during a cycle steal.
	A-A1N2	17			CN-1XX	MS = main storage
	MS	16				
	A-A1Q2	10			CQ-1XX	
	A-A1P2	1			CK-1XX	
	A-A3S2/	1			CP-1XX	
	A-A3P2					
10EA	A-A1M2	94			CL-1XX	MSP MSAR parity check.
	A-A1Q2	6			CQ-1XX	
	A-A1N2	1				
10Eb	A-A1M2	58			CL-1XX	wrong ECC wrt P check during cycle steal to
	A-A1Q2	40			CQ-1XX	

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	A-A1N2	2			CK-1XX	main storage.
10EC	A-A1M2	79			CL-1XX	MSP MSAR parity check
	A-A1N2	16			CK-1XX	during cycle steal.
	A-A1Q2	5			CQ-1XX	
10F0	A-A1M2	30	0105A			A CSP error occurred.
	A-A1N2	20				REIPL the system then
	A-A1L2	15				run the new SRC in ERAP
	MS	15				CSP error history table
						and use MAP 0113, 0114,
						0115, and 0116 for
						definition of new SRC.
10F1			0105A			MSP error: main storage
						access timeout.
						REIPL the system then
						run the new SRC in ERAP
						CSP error history table
						and use MAP 0113, 0114,
						0115, and 0116 for
						definition of new SRC.
10F2	A-A1P2	80	0105A			MSP error: parity checks.
						REIPL the system then
						run the new SRC in ERAP
						CSP error history table
						and use MAP 0113, 0114,
						0115, and 0116 for
						definition of new SRC.
10F3	A-A1L2	10	0105A			A channel error occurred.
	A-A1H2	10				REIPL the system then
	A-A3S2/	10				run the new SRC in ERAP
	A-A3P2					CSP error history table
	A-A2N2	10				and use MAP 0113, 0114,
	A-A1K2	10				0115, and 0116 for
	A-A1M2	5				definition of new SRC.
	A-A1N2	5				Check all DC voltages on
	A-A2J2	5				all boards to insure
	A-A1E2/	5				proper tolerances. Ref:
	A-A2E2					FLD AE100-AE300 for
	A-A2T2	5				probe points. Ref: MIM
	A-A1J2	5				05-400 for tolerances.

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	A-A2S2	5							NOTE: Check for bad channel terminator card. Only one will be present at either A1B3, A2U3, A3U3 or A3U4. Terminator cd P/N 4234073
	A-A3T2	5							
	Term								
10F4	A-A1N2	50	0105A						A control storage ECC occurred. REIPL the system then run the new SRC in ERAP CSP error history table and use MAP 0113, 0114, 0115, and 0116 for definition of new SRC.
10F5			0101C						Interrupt level 1 occurred for an unknown device. REIPL the system then run the new SRC in ERAP CSP error history table and use MAP 0113, 0114, 0115, and 0116 for definition of new SRC.
10F6	A-A1L2	30	0101C						Interrupt level 2 occurred for an unknown device. Could be any card on the channel bus causing the problem. REIPL the system then run the new SRC in ERAP CSP error history table and use MAP 0113, 0114, 0115, and 0116 for definition of new SRC.
	A-A1K2	30							
	A-A3S2/	30							
	A-A3P2								
10F7			0101C						Interrupt level 3 occurred for an unknown device. REIPL the system then run the new SRC in ERAP CSP error history table and use MAP 0113, 0114, 0115, and 0116 for

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					definition of new SRC.
10F8			0101C		Interrupt level 4 occurred for an unknown device. REIPL the system then run the new SRC in ERAP CSP error history table and use MAP 0113, 0114, 0115, and 0116 for definition of new SRC.
10FF	A-A1L2	10	0301		See MAP 0301 for more information on this system reference code. Check all DC voltages on all boards to insure proper tolerance Ref: FLD AE100-AE300 for probe points. Ref: MIM 05-400 for tolerances.
	A-A1M2	10			
	A-A1N2	10			
	A-A1P2	10			
	A-A1Q2	10			
	A-A1R2	10			
	A-A1S2	10			
	A-A1T2	10			
	A-A1U2	10			
	A-A1Z2	10			
***** Default Code *****					
1111					This is the hardware default code and indicates that no hardware error condition was evaluated. RE-IPL to obtain a refined SRC. If system completes IPL, look in ERAP for SRCs at the time of the RE-IPL.
***** MSP 12xx *****					
1200	A-A1U2	99			ReIPL, if no failure replace FRU(s), if failure go to 0301A.
1201	A-A1T2	94			ReIPL, if no failure replace FRU(s), if failure go to 0301A.
	A-A1Q2	4			
1202	A-A1S2	94			ReIPL, if no failure replace FRU(s), if failure go to 0301A.
	A-A1Q2	4			

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1203	A-A1R2 A-A1Q2	95 4				CR-1XX CQ-1XX	A1R2 is a 256Kb storage card. REIPL, if no failure replace FRU(s), if failure go to 0301A.
1204	A-A1U2	99	0310A			CU-1XX	A1U2 is a 128Kb storage card.
1205	A-A1T2 A-A1Q2	95 4				CT-1XX CQ-1XX	A1T2 is a 128Kb storage card. REIPL, if no failure replace FRU(s), if failure go to 0301A.
1206	A-A1S2 A-A1Q2	94 4					REIPL, if no failure replace FRU(s), if failure go to 0301A.
1207	A-A1R2 A-A1Q2	94 4					REIPL, if no failure replace FRU(s), if failure go to 0301A.
1208	A-A1U2	99				CU-1XX	A1U2 is a 256Kb storage card.
1209	A-A1T2 A-A1Q2	95 4				CT-1XX CQ-1XX	A1T2 is a 256Kb storage card. REIPL, if no failure replace FRU(s), if failure go to 0301A.
120A	A-A1S2 A-A1Q2	95 4				CS-1XX CQ-1XX	A1S2 is a 256Kb storage card. REIPL, if no failure replace FRU(s), if failure go to 0301A.
120C	A-A1R2 A-A1Q2	94 4					REIPL, if no failure replace FRU(s), if failure go to 0301A.
120d	A-A1Q2	96				CQ-1XX	REIPL, if no failure

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	A-A1P2	3				CP-1XX	replace FRU(s), if failure go to 0310A.
120E	A-A1Q2	97				CQ-1XX	REIPL, if no failure
	A-A1P2	2				CP-1XX	replace FRU(s), if failure go to 0310A.
1210	A-A1Q2	87					ReIPL, if no failure
	A-A1U2	11					replace FRU(s), if
	A-A1P2	1					failure go to 0301A.
1211	A-A1Q2	87					ReIPL, if no failure
	A-A1T2	11					replace FRU(s), if
	A-A1P2	1					failure go to 0301A.
1212	A-A1Q2	87					ReIPL, if no failure
	A-A1S2	11					replace FRU(s), if
	A-A1P2	1					failure go to 0301A.
1213	A-A1Q2	74				CQ-1XX	A1R2 is a 256Kb storage
	A-A1R2	24				CR-1XX	card.
	A-A1P2	1				CP-1XX	REIPL, if no failure
							replace FRU(s), if failure go to 0310A.
1214	A-A1Q2	60				CQ-1XX	A1U2 is a 128Kb storage
	A-A1U2	35				CU-1XX	card.
	A-A1P2	5				CP-1XX	REIPL, if no failure
							replace FRU(s), if failure go to 0310A.
1215	A-A1Q2	60				CQ-1XX	A1T2 is a 128Kb storage
	A-A1T2	35				CT-1XX	card.
	A-A1P2	5				CP-1XX	REIPL, if no failure
							replace FRU(s), if failure go to 0310A.
1216	A-A1Q2	60					ReIPL, if no failure
	A-A1S2	35					replace FRU(s), if
	A-A1P2	5					failure go to 0301A.
1217	A-A1Q2	60					ReIPL, if no failure
	A-A1R2	35					replace FRU(s), if
	A-A1P2	5					failure go to 0301A.

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1218	A-A1Q2	74				CQ-1XX	A1U2 is a 256Kb storage
	A-A1U2	24				CU-1XX	card.
	A-A1P2	1				CP-1XX	REIPL, if no failure
	A-A1T2	1					replace FRU(s), if
							failure go to 0310A.
1219	A-A1Q2	74				CQ-1XX	A1T2 is a 256Kb storage
	A-A1T2	24				CT-1XX	card.
	A-A1P2	1				CP-1XX	REIPL, if no failure
							replace FRU(s), if
							failure go to 0310A.
121A	A-A1Q2	74				CQ-1XX	A1S2 is a 256Kb storage
	A-A1S2	24				CS-1XX	card.
	A-A1P2	1				CP-1XX	REIPL, if no failure
							replace FRU(s), if
							failure go to 0310A.
121C	A-A1Q2	87					REIPL, if no failure
	A-A1R2	11					replace FRU(s), if
	A-A1P2	1					failure go to 0301A.
121d	A-A1P2	98				CP-1XX	REIPL, if no failure
	A-A1Q2	1				CQ-1XX	replace FRU(s), if
							failure go to 0310A.
121E	A-A1P2	98				CP-1XX	REIPL, if no failure
	A-A1Q2	1				CQ-1XX	replace FRU(s), if
							failure go to 0310A.
1220	A-A1Q2	86					REIPL, if no failure
	A-A1U2	12					replace FRU(s), if
	A-A1P2	1					failure go to 0301A.
1221	A-A1Q2	86					REIPL, if no failure
	A-A1T2	12					replace FRU(s), if
	A-A1P2	1					failure go to 0301A.
1222	A-A1Q2	86					REIPL, if no failure
	A-A1S2	12					replace FRU(s), if
	A-A1P2	1					failure go to 0301A.
1223	A-A1Q2	72				CQ-1XX	A1R2 is a 256Kb storage

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	A-A1R2	26			CR-1XX	card.
	A-A1P2	1			CP-1XX	REIPL, if no failure replace FRU(s), if failure go to 0310A.
1224	A-A1Q2	60			CQ-1XX	A1U2 is a 128Kb storage
	A-A1U2	38			CU-1XX	card.
	A-A1P2	2			CP-1XX	REIPL, if no failure replace FRU(s), if failure go to 0310A.
1225	A-A1Q2	60			CQ-1XX	A1T2 is a 128Kb storage
	A-A1T2	38			CT-1XX	card.
	A-A1P2	2			CP-1XX	REIPL, if no failure replace FRU(s), if failure go to 0310A.
1226	A-A1Q2	60				REIPL, if no failure replace FRU(s), if failure go to 0301A.
	A-A1S2	38				
	A-A1P2	2				
1227	A-A1Q2	60				REIPL, if no failure replace FRU(s), if failure go to 0301A.
	A-A1R2	38				
	A-A1P2	2				
1228	A-A1Q2	72			CQ-1XX	A1U2 is a 256Kb storage
	A-A1U2	26			CU-1XX	card.
	A-A1P2	1			CP-1XX	REIPL, if no failure replace FRU(s), if failure go to 0310A.
1229	A-A1Q2	72			CQ-1XX	A1T2 is a 256Kb storage
	A-A1T2	26			CT-1XX	card.
	A-A1P2	1			CP-1XX	REIPL, if no failure replace FRU(s), if failure go to 0310A.
122A	A-A1Q2	72			CQ-1XX	A1S2 is a 256Kb storage
	A-A1S2	26			CS-1XX	card.
	A-A1P2	1			CP-1XX	REIPL, if no failure replace FRU(s), if failure go to 0310A.
122C	A-A1Q2	86				REIPL, if no failure

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	A-A1R2	12							replace FRU(s), if failure go to 0301A.
	A-A1P2	1							
122d	A-A1Q2	99	0310A					CQ-1XX	
122E	A-A1Q2	99	0310A					CQ-1XX	
1230	A-A1Q2	88							ReIPL, if no failure replace FRU(s), if failure go to 0301A.
	A-A1U2	9							
	A-A1P2	3							
1231	A-A1Q2	88							ReIPL, if no failure replace FRU(s), if failure go to 0301A.
	A-A1T2	9							
	A-A1P2	2							
1232	A-A1Q2	88							ReIPL, if no failure replace FRU(s), if failure go to 0301A.
	A-A1S2	9							
	A-A1P2	2							
1233	A-A1Q2	78						CQ-1XX	A1R2 is a 256Kb storage
	A-A1R2	19						CR-1XX	card.
	A-A1P2	1						CP-1XX	REIPL, if no failure replace FRU(s), if failure go to 0301A.
1234	A-A1Q2	70						CQ-1XX	A1U2 is a 128Kb storage
	A-A1U2	25						CU-1XX	card.
	A-A1P2	5						CP-1XX	REIPL, if no failure replace FRU(s), if failure go to 0301A.
1235	A-A1Q2	70						CQ-1XX	A1T2 is a 128Kb storage
	A-A1T2	25						CT-1XX	card.
	A-A1P2	5						CP-1XX	REIPL, if no failure replace FRU(s), if failure go to 0301A.
1236	A-A1Q2	70							ReIPL, if no failure replace FRU(s), if failure go to 0301A.
	A-A1S2	25							
	A-A1P2	5							
1237	A-A1Q2	70							ReIPL, if no failure replace FRU(s), if failure go to 0301A.
	A-A1R2	25							
	A-A1P2	5							

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1238	A-A1Q2	78				CQ-1XX	A1U2 is a 256Kb storage
	A-A1U2	19				CU-1XX	card.
	A-A1P2	2				CP-1XX	REIPL, if no failure
							replace FRU(s), if
							failure go to 0310A.
1239	A-A1Q2	78				CQ-1XX	A1T2 is a 256Kb storage
	A-A1T2	19				CT-1XX	card.
	A-A1P2	1				CP-1XX	REIPL, if no failure
							replace FRU(s), if
							failure go to 0310A.
123A	A-A1Q2	78				CQ-1XX	A1S2 is a 256Kb storage
	A-A1S2	19				CS-1XX	card.
	A-A1P2	1				CP-1XX	REIPL, if no failure
							replace FRU(s), if
							failure go to 0310A.
123C	A-A1Q2	88					REIPL, if no failure
	A-A1R2	9					replace FRU(s), if
	A-A1P2	2					failure go to 0301A.
123d	A-A1P2	98				CP-1XX	REIPL, if no failure
	A-A1Q2	1				CQ-1XX	replace FRU(s), if
							failure go to 0310A.
123E	A-A1P2	97				CP-1XX	REIPL, if no failure
	A-A1Q2	2				CQ-1XX	replace FRU(s), if
							failure go to 0310A.
1240	A-A1Q2	74					REIPL, if no failure
	A-A1U2	25					replace FRU(s), if
	A-A1P2	1					failure go to 0301A.
1241	A-A1Q2	74					REIPL, if no failure
	A-A1T2	25					replace FRU(s), if
	A-A1P2	1					failure go to 0301A.
1242	A-A1Q2	74					REIPL, if no failure
	A-A1S2	25					replace FRU(s), if
	A-A1P2	1					failure go to 0301A.
1243	A-A1Q2	53				CQ-1XX	A1R2 is a 256Kb storage

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	A-A1R2	45				CR-1XX	card.
	A-A1P2	1				CP-1XX	REIPL, if no failure replace FRU(s), if failure go to 0310A.
1244	A-A1Q2	50				CQ-1XX	A1U2 is a 128Kb storage
	A-A1U2	48				CU-1XX	card.
	A-A1P2	2				CP-1XX	REIPL, if no failure replace FRU(s), if failure go to 0310A.
1245	A-A1Q2	50				CQ-1XX	A1T2 is a 128Kb storage
	A-A1T2	48				CT-1XX	card.
	A-A1P2	2				CP-1XX	REIPL, if no failure replace FRU(s), if failure go to 0310A.
1246	A-A1Q2	50					ReIPL, if no failure replace FRU(s), if failure go to 0301A.
	A-A1S2	48					
	A-A1P2	2					
1247	A-A1Q2	50					ReIPL, if no failure replace FRU(s), if failure go to 0301A.
	A-A1R2	48					
	A-A1P2	2					
1248	A-A1Q2	53				CQ-1XX	A1U2 is a 256Kb storage
	A-A1U2	45				CU-1XX	card.
	A-A1P2	1				CP-1XX	REIPL, if no failure replace FRU(s), if failure go to 0310A.
1249	A-A1Q2	53				CQ-1XX	A1T2 is a 256Kb storage
	A-A1T2	45				CT-1XX	card.
	A-A1P2	1				CP-1XX	REIPL, if no failure replace FRU(s), if failure go to 0310A.
124A	A-A1Q2	53				CQ-1XX	A1S2 is a 256Kb storage
	A-A1S2	45				CS-1XX	card.
	A-A1P2	1				CP-1XX	REIPL, if no failure replace FRU(s), if failure go to 0310A.
124C	A-A1Q2	74					ReIPL, if no failure

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	A-A1R2	25							replace FRU(s), if failure go to 0301A.
	A-A1P2	1							
124d	A-A1P2	99	0310A					CP-1XX	
124E	A-A1P2	99	0310A					CP-1XX	
1250	A-A1Q2	68							REIPL, if no failure replace FRU(s), if failure go to 0301A.
	A-A1U2	30							
	A-A1P2	1							
1251	A-A1Q2	68							REIPL, if no failure replace FRU(s), if failure go to 0301A.
	A-A1T2	30							
	A-A1P2	1							
1252	A-A1Q2	68							REIPL, if no failure replace FRU(s), if failure go to 0301A.
	A-A1S2	30							
	A-A1P2	1							
1253	A-A1R2	50						CR-1XX	A1R2 is a 256Kb storage
	A-A1Q2	48						CQ-1XX	card.
	A-A1P2	1						CP-1XX	REIPL, if no failure replace FRU(s), if failure go to 0310A.
1254	A-A1Q2	48						CQ-1XX	A1U2 is a 128Kb storage
	A-A1U2	46						CU-1XX	card.
	A-A1P2	4						CP-1XX	REIPL, if no failure replace FRU(s), if failure go to 0310A.
1255	A-A1Q2	48						CQ-1XX	A1T2 is a 128Kb storage
	A-A1T2	46						CT-1XX	card.
	A-A1P2	4						CP-1XX	REIPL, if no failure replace FRU(s), if failure go to 0310A.
1256	A-A1Q2	48							REIPL, if no failure replace FRU(s), if failure go to 0301A.
	A-A1S2	46							
	A-A1P2	4							
1257	A-A1Q2	48							REIPL, if no failure replace FRU(s), if failure go to 0301A.
	A-A1R2	46							
	A-A1P2	4							

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1258	A-A1U2	50				CU-1XX	A1U2 is a 256Kb storage
	A-A1Q2	48				CQ-1XX	card.
	A-A1P2	1				CP-1XX	REIPL, if no failure
							replace FRU(s), if
							failure go to 0310A.
1259	A-A1T2	50				CT-1XX	A1T2 is a 256Kb storage
	A-A1Q2	48				CQ-1XX	card.
	A-A1P2	1				CP-1XX	REIPL, if no failure
							replace FRU(s), if
							failure go to 0310A.
125A	A-A1S2	50				CS-1XX	A1S2 is a 256Kb storage
	A-A1Q2	48				CQ-1XX	card.
	A-A1P2	1				CP-1XX	REIPL, if no failure
							replace FRU(s), if
							failure go to 0310A.
125C	A-A1Q2	68					ReIPL, if no failure
	A-A1R2	30					replace FRU(s), if
	A-A1P2	1					failure go to 0301A.
125E	A-A1P2	99	0310A			CP-1XX	
1260	A-A1Q2	80					ReIPL, if no failure
	A-A1P2	10					replace FRU(s), if
	A-A1U2	9					failure go to 0301A.
1261	A-A1Q2	80					ReIPL, if no failure
	A-A1P2	10					replace FRU(s), if
	A-A1T2	9					failure go to 0301A.
1262	A-A1Q2	80					ReIPL, if no failure
	A-A1P2	10					replace FRU(s), if
	A-A1S2	9					failure go to 0301A.
1263	A-A1Q2	59				CQ-1XX	A1R2 is a 256Kb storage
	A-A1R2	36				CR-1XX	card.
	A-A1P2	4				CP-1XX	REIPL, if no failure
							replace FRU(s), if
							failure go to 0310A.
1264	A-A1Q2	53				CQ-1XX	A1U2 is a 128Kb storage

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	A-A1U2	43			CU-1XX	card.
	A-A1P2	4			CP-1XX	REIPL, if no failure replace FRU(s), if failure go to 0310A.
1265	A-A1Q2	53			CQ-1XX	A1T2 is a 128Kb storage
	A-A1T2	43			CT-1XX	card.
	A-A1P2	4			CP-1XX	REIPL, if no failure replace FRU(s), if failure go to 0310A.
1266	A-A1Q2	53				ReIPL, if no failure replace FRU(s), if failure go to 0301A.
	A-A1S2	43				
	A-A1P2	4				
1267	A-A1Q2	53				ReIPL, if no failure replace FRU(s), if failure go to 0301A.
	A-A1R2	43				
	A-A1P2	4				
1268	A-A1Q2	76			CQ-1XX	A1U2 is a 256Kb storage
	A-A1U2	13			CU-1XX	card.
	A-A1P2	10			CP-1XX	REIPL, if no failure replace FRU(s), if failure go to 0310A.
1269	A-A1Q2	76			CQ-1XX	A1T2 is a 256Kb storage
	A-A1T2	13			CT-1XX	card.
	A-A1P2	10			CP-1XX	REIPL, if no failure replace FRU(s), if failure go to 0310A.
126A	A-A1Q2	59			CQ-1XX	A1S2 is a 256Kb storage
	A-A1S2	36			CS-1XX	card.
	A-A1P2	4			CP-1XX	REIPL, if no failure replace FRU(s), if failure go to 0310A.
126C	A-A1Q2	80				ReIPL, if no failure replace FRU(s), if failure go to 0301A.
	A-A1P2	10				
	A-A1R2	9				
126E	A-A1P2	99	0310A		CP-1XX	
1270	A-A1U2	66				ReIPL, if no failure

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	A-A1Q2	19							replace FRU(s), if failure go to 0301A.
	A-A1P2	14							
1271	A-A1T2	66							RelPL, if no failure
	A-A1Q2	19							replace FRU(s), if failure go to 0301A.
	A-A1P2	14							
1272	A-A1S2	66							RelPL, if no failure
	A-A1Q2	19							replace FRU(s), if failure go to 0301A.
	A-A1P2	14							
1273	A-A1R2	86				CR-1XX	A1R2 is a 256Kb storage		
	A-A1Q2	8				CQ-1XX	card.		
	A-A1P2	5				CP-1XX	REIPL, if no failure		replace FRU(s), if failure go to 0310A.
1274	A-A1U2	70				CU-1XX	A1U2 is a 128Kb storage		
	A-A1Q2	20				CQ-1XX	card.		
	A-A1P2	10				CP-1XX	REIPL, if no failure		replace FRU(s), if failure go to 0310A.
1275	A-A1T2	70				CT-1XX	A1T2 is a 128Kb storage		
	A-A1Q2	20				CQ-1XX	card.		
	A-A1P2	10				CP-1XX	REIPL, if no failure		replace FRU(s), if failure go to 0310A.
1276	A-A1S2	70							RelPL, if no failure
	A-A1Q2	20							replace FRU(s), if failure go to 0301A.
	A-A1P2	10							
1277	A-A1R2	70							RelPL, if no failure
	A-A1Q2	20							replace FRU(s), if failure go to 0301A.
	A-A1P2	10							
1278	A-A1U2	86				CU-1XX	A1U2 is a 256Kb storage		
	A-A1Q2	8				CQ-1XX	card.		
	A-A1P2	5				CP-1XX	REIPL, if no failure		replace FRU(s), if failure go to 0310A.
1279	A-A1T2	86				CT-1XX	A1T2 is a 256Kb storage		

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	A-A1Q2	8				CQ-1XX	card.
	A-A1P2	5				CP-1XX	REIPL, if no failure replace FRU(s), if failure go to 0310A.
127A	A-A1S2	86				CS-1XX	A1S2 is a 256Kb storage
	A-A1Q2	8				CQ-1XX	card.
	A-A1P2	5				CP-1XX	REIPL, if no failure replace FRU(s), if failure go to 0310A.
127C	A-A1R2	66					REIPL, if no failure replace FRU(s), if failure go to 0301A.
	A-A1Q2	19					
	A-A1P2	14					
127d	A-A1Q2	92				CQ-1XX	REIPL, if no failure replace FRU(s), if failure go to 0310A.
	A-A1P2	7				CP-1XX	
1280	A-A1U2	98					REIPL, if no failure replace FRU(s), if failure go to 0301A.
	A-A1Q2	1					
1281	A-A1T2	98					REIPL, if no failure replace FRU(s), if failure go to 0301A.
	A-A1Q2	1					
1282	A-A1S2	98					REIPL, if no failure replace FRU(s), if failure go to 0301A.
	A-A1Q2	1					
1283	A-A1R2	98				CR-1XX	A1R2 is a 256Kb storage
	A-A1Q2	1				CQ-1XX	card.
						CP-1XX	REIPL, if no failure replace FRU(s), if failure go to 0310A.
1284	A-A1U2	98				CU-1XX	A1U2 is a 128Kb storage
	A-A1Q2	1				CQ-1XX	card.
							REIPL, if no failure replace FRU(s), if failure go to 0310A.
1285	A-A1T2	98				CT-1XX	A1T2 is a 128Kb storage

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	A-A1Q2	1				CQ-1XX	card. REIPL, if no failure replace FRU(s), if failure go to 0310A.
1286	A-A1S2 A-A1Q2	98 1					ReIPL, if no failure replace FRU(s), if failure go to 0301A.
1287	A-A1R2 A-A1Q2	98 1					ReIPL, if no failure replace FRU(s), if failure go to 0301A.
1288	A-A1U2 A-A1Q2	98 1				CU-1XX CQ-1XX	A1U2 is a 256Kb storage card. REIPL, if no failure replace FRU(s), if failure go to 0310A.
1289	A-A1T2 A-A1Q2	98 1				CT-1XX CQ-1XX	A1T2 is a 256Kb storage card. REIPL, if no failure replace FRU(s), if failure go to 0310A.
128A	A-A1S2 A-A1Q2	98 1				CS-1XX CQ-1XX CP-1XX	A1S2 is a 256Kb storage card. REIPL, if no failure replace FRU(s), if failure go to 0310A.
128C	A-A1R2 A-A1Q2	98 1					ReIPL, if no failure replace FRU(s), if failure go to 0301A.
12d0	A-A1Q2 A-A1U2 A-A1P2	51 47 1					ReIPL, if no failure replace FRU(s), if failure go to 0301A.
12d1	A-A1Q2 A-A1T2 A-A1P2	51 47 1					ReIPL, if no failure replace FRU(s), if failure go to 0301A.
12d2	A-A1Q2	51					ReIPL, if no failure

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	A-A1S2	47					replace FRU(s), if
	A-A1P2	1					failure go to 0301A.
12d3	A-A1Q2	51				CQ-1XX	A1R2 is a 256Kb storage
	A-A1R2	47				CR-1XX	card.
	A-A1P2	1				CP-1XX	REIPL, if no failure
							replace FRU(s), if
							failure go to 0310A.
12d4	A-A1Q2	51				CQ-1XX	A1U2 is 128Kb storage
	A-A1U2	47				CU-1XX	card.
	A-A1P2	1				CP-1XX	REIPL, if no failure
							replace FRU(s), if
							failure go to 0310A.
12d5	A-A1Q2	51				CQ-1XX	A1T2 is 128Kb storage
	A-A1T2	47				CT-1XX	card.
	A-A1P2	1				CP-1XX	REIPL, if no failure
							replace FRU(s), if
							failure go to 0310A.
12d6	A-A1Q2	51					REIPL, if no failure
	A-A1S2	47					replace FRU(s), if
	A-A1P2	1					failure go to 0301A.
12d7	A-A1Q2	51					REIPL, if no failure
	A-A1R2	47					replace FRU(s), if
	A-A1P2	1					failure go to 0301A.
12d8	A-A1Q2	51				CQ-1XX	A1U2 is 256Kb storage
	A-A1U2	47				CU-1XX	card.
	A-A1P2	1				CP-1XX	REIPL, if no failure
							replace FRU(s), if
							failure go to 0310A.
12d9	A-A1Q2	51				CQ-1XX	A1T2 is 256Kb storage
	A-A1T2	47				CT-1XX	card.
	A-A1P2	1				CP-1XX	REIPL, if no failure
							replace FRU(s), if
							failure go to 0310A.
12dA	A-A1Q2	51				CQ-1XX	A1S2 is a 256Kb storage
	A-A1S2	47				CS-1XX	card.
	A-A1P2	1				CP-1XX	REIPL, if no failure

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									replace FRU(s), if failure go to 0310A.
12dC	A-A1Q2	51							ReIPL, if no failure
	A-A1R2	47							replace FRU(s), if
	A-A1P2	1							failure go to 0301A.
12E0	A-A1U2	63							ReIPL, if no failure
	A-A1Q2	19							replace FRU(s), if
	A-A1P2	17							failure go to 0301A.
12E1	A-A1T2	63							ReIPL, if no failure
	A-A1Q2	19							replace FRU(s), if
	A-A1P2	17							failure go to 0301A.
12E2	A-A1S2	63							ReIPL, if no failure
	A-A1Q2	19							replace FRU(s), if
	A-A1P2	17							failure go to 0301A.
12E3	A-A1R2	84				CR-1XX	A1R2 is a 256Kb storage		
	A-A1Q2	8				CQ-1XX	card.		
	A-A1P2	7				CP-1XX	REIPL, if no failure		
							replace FRU(s), if		failure go to 0310A.
12E4	A-A1U2	70				CU-1XX	A1U2 is a 128Kb storage		
	A-A1Q2	20				CQ-1XX	card.		
	A-A1P2	10				CP-1XX	REIPL, if no failure		
							replace FRU(s), if		failure go to 0310A.
12E5	A-A1U2	70				CT-1XX	A1T2 is a 128Kb storage		
	A-A1Q2	20				CQ-1XX	card.		
	A-A1P2	10				CP-1XX	REIPL, if no failure		
							replace FRU(s), if		failure go to 0310A.
12E6	A-A1S2	70							ReIPL, if no failure
	A-A1Q2	20							replace FRU(s), if
	A-A1P2	10							failure go to 0301A.
12E7	A-A1R2	70							ReIPL, if no failure
	A-A1Q2	20							replace FRU(s), if
	A-A1P2	10							failure go to 0301A.

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12E7	A-A1R2	88				CR-1XX	REIPL, if no failure
	A-A1Q2	6				CQ-1XX	replace FRU(s), if
	A-A1P2	5				CP-1XX	failure go to 0310A.
12E8	A-A1U2	84				CU-1XX	A1U2 is a 256Kb storage
	A-A1Q2	8				CQ-1XX	card.
	A-A1P2	7				CP-1XX	REIPL, if no failure
							replace FRU(s), if
							failure go to 0310A.
12E9	A-A1T2	84				CT-1XX	A1T2 is a 256Kb storage
	A-A1Q2	8				CQ-1XX	card.
	A-A1P2	7				CP-1XX	REIPL, if no failure
							replace FRU(s), if
							failure go to 0310A.
12EA	A-A1S2	84				CS-1XX	A1S2 is a 256Kb storage
	A-A1Q2	8				CQ-1XX	card.
	A-A1P2	7				CP-1XX	REIPL, if no failure
							replace FRU(s), if
							failure go to 0310A.
12EC	A-A1R2	63					REIPL, if no failure
	A-A1Q2	19					replace FRU(s), if
	A-A1P2	17					failure go to 0301A.
12F0	A-A1U2	97					REIPL, if no failure
	A-A1Q2	2					replace FRU(s), if
							failure go to 0301A.
12F1	A-A1T2	97					REIPL, if no failure
	A-A1Q2	2					replace FRU(s), if
							failure go to 0301A.
12F2	A-A1S2	97					REIPL, if no failure
	A-A1Q2	2					replace FRU(s), if
							failure go to 0301A.
12F3	A-A1R2	98				CR-1XX	A1R2 is a 256Kb storage
	A-A1Q2	1				CQ-1XX	card.
						CP-1XX	REIPL, if no failure
							replace FRU(s), if
							failure go to 0310A.

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12F4	A-A1U2 A-A1Q2	98 1				CU-1XX CQ-1XX	A1U2 is a 128Kb storage card. REIPL, if no failure replace FRU(s), if failure go to 0310A.
12F5	A-A1T2 A-A1Q2	98 1				CT-1XX CQ-1XX	A1T2 is a 128Kb storage card. REIPL, if no failure replace FRU(s), if
12F6	A-A1S2 A-A1Q2	98 1					ReIPL, if no failure replace FRU(s), if failure go to 0301A.
12F7	A-A1R2 A-A1Q2	98 1					ReIPL, if no failure replace FRU(s), if failure go to 0301A.
12F8	A-A1U2 A-A1Q2	98 1				CU-1XX CQ-1XX	A1U2 is a 256Kb storage card. REIPL, if no failure replace FRU(s), if failure go to 0310A.
12F9	A-A1T2 A-A1Q2	98 1				CT-1XX CQ-1XX	A1T2 is a 256Kb storage card. REIPL, if no failure replace FRU(s), if failure go to 0310A.
12FA	A-A1S2 A-A1Q2	98 1				CS-1XX CQ-1XX CP-1XX	A1S2 is a 256Kb storage card. REIPL, if no failure replace FRU(s), if failure go to 0310A.
12FC	A-A1R2 A-A1Q2	97 2					eIPL, if no failure replace FRU(s), if failure go to 0301A.
12FE	A-A1P2 A-A1Q2	38 38				CP-1XX CQ-1XX	MSP/MS error occurred, but could not be

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	MS	20				CR-1XX	logged.
						CS-1XX	REIPL, if no failure
						CT-1XX	replace FRU(s), if
						CU-1XX	failure go to 0310A.
12FF	A-A1P2	38				CP-1XX	Unexpected error. Use
	A-A1Q2	38				CQ-1XX	MAP 0312 to interpret the
	MS	20				CR-1XX	MSP check. R2, S2 or T2
						CS-1XX	may not be present
						CT-1XX	depending on main store
						CU-1XX	size.
							* = REIPL, if no failure
							replace FRU(s), if
							failure go to 0312A.
***** Data Storage Controller 13xx *****							
1301			9900A		90-110		Data storage controller
							not valid IL4 condition.
1302	A-A2J2	99					Data storage controller
							invalid IL2 condition.
1303							Data storage controller
							Error during IPL.
135b	A-A2J2	70	9900A		90-110	TJ-200	Data storage controller
	A-A2K2	30				TK-200	not valid device assigned
							(ID).
135d	A-A2J2	70	9900A		90-110	TJ-200	Data storage controller
	A-A2K2	30				TK-200	not valid CS address.
135E	A-A2J2	90	9900A		90-110	TJ-200	Data storage controller
	A-A2K2	3				TK-200	2 second timeout.
	A-A2L2	3				TL-200	
135F	A-A2J2	70	9900A		90-110	TJ-200	Data storage controller
	A-A2K2	20				TK-200	wild branch.
13F0	A-A2J2	90	9900A		90-110	TJ-200	Data storage controller
	A-A2K2	10				TK-200	LSR parity check.
13F3	A-A2J2	80	9900A		90-110	TJ-200	Data storage controller
	A-A2K2	20				TK-200	DBI/DBO parity check.

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13F4	A-A2J2	99	9900A		90-110	TJ-200	Data storage controller store parity check.
13F5	A-A2J2 A-A2K2 A-A2E2	80 5 5	9900A		90-110	TJ-200 TK-200	Data storage controller device timeout. Data storage controller channel.
13F6	A-A2J2	99	9900A				Data storage controller is in a hung state to the CPU channel.
***** 1255 MCR *****							
1503	A-A2P2 A-A2N2 I/E Cb1 A-A2	70 25 1 1	4100A			MP-200 MM-200	DBI/DB0 parity check (sense byte 0, bit 3).
1505	A-A2L4 A-A2M4 A-A2P2 A-A2N2 I/E cb1 A-A2	30 30 10 10 1 1	4100A			ML-220 MM-220 MP-200 MN-200	Memory parity check (sense byte 0, bit 5).
1506	A-A2P2	90	4100A			MP-200	Long time-out check (sense byte 0, bit 6).
1507	1255 A-A2P2 A-A2N2 A-A2Q2 I/E cb1 A-A2	70 15 10 3 1 1	4100A			MP-200 MN-200	Sorter stopped (sense byte 0, bit 7).
15FF	1255 A-A2 I/E cb1	90 1 1	4100A				Run 1255 I/O Exerciser. See 1255 MIM.
***** CSP/SS (Stage 2 CSP) *****							
1600	A-A1N2 A-A3S2 X-Over	45 45 1	0105A				Error during cycle steal to communications controller.

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1601	A-A1N2 A-A1K2/ A-A3S2 X-Over	45 45   1	0105A				I/O time out, P check or address not valid during data communications.
1602	A-A1N2 A-A3P2 X-Over	45 45   1	0105A				I/O time out, P check or address not valid during data communications.
1605	A-A1N2 A-A1E2/ A-A2E2/ A-A2J2 X-Over	45 45     1	0105A				Error during cycle steal to/from DSA or controller. Error during I/O instruction.
1606	A-A1N2 A-A3P2 X-Over	45 45   1	0105A				Error during cycle steal to communications controller.
1607	A-A1N2 A-A3S2 X-Over	45 45   1					Error during cycle steal or I/O instruction to/from 2nd work station controller.
160A	A-A1N2 A-A1H2/ A-A1J2 X-Over	45 45   1	0105A				Error during cycle steal with work station controller or error during I/O instruction.
160F							See MAP 0301 for more information on this system reference code.
1611							See MAP 0301 for more information on this system reference code.
1616							See MAP 0301 for more information on this system reference code.
161C	A-A1N2 A-A1Q2	30 30	0105A				Error during cycle steal between MSP and

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	A-A3S2	30					communications controller.
	X-Over	1					
161E	A-A1N2	30	0105A				Error during cycle steal
	A-A1Q2	30					between MSP and DSA or
	A-A1E2/	30					controller.
	A-A2E2/						
	A-A2J2						
	X-Over	1					
1620	A-A1N2	30	0105A				Error during cycle steal
	A-A1Q2	30					between MSP and work
	A-A1H2	30					station controller.
	X-Over	1					
1622	A-A1N2	30	0105A				Error during cycle steal
	A-A1Q2	30					between MSP and comm
	A-A3P2	30					controller.
	X-Over	1					
1623	A-A1N2	30					Error during cycle steal
	A-A1Q2	30					between MSP and 2nd work
	A-A3S2	30					station controller.
	X-Over	1					
1625							See MAP 0301 for more
							information on this system
							reference code.
162A							See MAP 0301 for more
							information on this system
							reference code.
162F							See MAP 0301 for more
							information on this system
							reference code.
1630	A-A1N2	33	0105A				3 second time out during
	A-A1Q2	33					cycle steal.
	MS	33					
1635	A-A1N2	90	0105A				Storage check or LSR
	A-A1M2	5					check.

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163A	A-A1N2	45	0105A				Error during I/O instruction to 1255/MCR.
	A-A2N2	45					
	X-Over	1					
163F	A-A1N2	45	0105A				Error during I/O instruction to 3262 printer.
	A-A2S2/	45					
	A-A2T2/						
	A-A2R2						
	X-Over	1					
1640	A-A1N2	48	0105A				DBO P check during I/O instruction to SLCA.
	A-A1K2	48					
	X-Over	1					
1645	A-A1N2	15	0105A				Error during SILSB on interrupt level 4.
	A-A2N2	15					
	A-A1H2	15					
	A-A1E2/	15					
	A-A2E2/						
	A-A2J2						
	A-A2S2/	15					
	A-A2R2						
	A-A2N2	15					
	X-Over	1					
164A	A-A1N2	45	0105A				Error during SILSB on interrupt level 2.
	A-A1K2/	45					
	A-A1H2/						
	A-A3S2						
	A-A3P2						
	X-Over	1					
164F	A-A1N2	30	0105A				DPO P check during SILSB.
	A-A1K2/	30					
	A-A2N2	30					
	X-Over	1					
1650	A-A1N2	75	0105A				3 or 4 second time out.
	A-A1Q2	10					
	A-A1M2	10					
1670	A-A1N2	80					The data written to storage had bad parity.
	A-A1Q2	12					A-A1U2 is a 512Kb storage
	A-A1U2	6					

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	A-A1P2   1				card.
	A-A1 Bd  1				
1671	A-A1N2   8				The data written to
	A-A1Q2   12				storage had bad parity.
	A-A1T2   6				A-A1T2 is a 512Kb storage
	A-A1P2   1				card.
1672	A-A1N2   8				The data written to
	A-A1Q2   12				storage had bad parity.
	A-A1S2   6				A-A1R2 is a 512Kb storage
	A-A1P2   1				card.
1673	A-A1N2   7				The data written in to
	A-A1Q2   12				storage had bad parity.
	A-A1R2   10				A1R2 is a 256Kb storage
	A-A1P2   1				card.
1674	A-A1N2   4				The data written to stg
	A-A1U2   4				had bad parity. A1U2 is a
	A-A1Q2   6				128Kb storage card.
	A-A1P2   3				
	A-A1 Bd  1				
1675	A-A1N2   4				Main stg write parity
	A-A1T2   4				check. A1T2 is a 128Kb
	A-A1Q2   6				storage card.
	A-A1P2   4				
1676	A-A1N2   4				The data written to
	A-A1Q2   4				storage had bad parity.
	A-A1S2   6				A-A1S2 is a 128Kb storage
	A-A1P2   3				card.
	A-A1 Bd  1				
1677	A-A1N2   4				The data written to
	A-A1Q2   4				storage had bad parity.
	A-A1R2   6				A-A1R2 is a 128Kb storage
	A-A1P2   4				card.
1678	A-A1N2   7				The data written to stg
	A-A1Q2   12				had bad parity. A1U2 is a
	A-A1U2   10				256Kb storage card.
	A-A1P2   1				

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	A-A1 Bd	1				
1679	A-A1N2	76				Main stg write parity chk. A1T2 is a 256Kb storage card.
	A-A1Q2	12				
	A-A1T2	10				
	A-A1P2	1				
167A	A-A1N2	76				The data written in to storage had bad parity. A1S2 is a 256Kb storage card.
	A-A1Q2	12				
	A-A1S2	10				
	A-A1P2	1				
167C	A-A1N2	81				The data written to storage had bad parity. A-A1R2 is a 512Kb storage card.
	A-A1Q2	12				
	A-A1R2	6				
	A-A1P2	1				
1680	A-A1Q2	60				Main storage write parity check. A-A1U2 is a 512Kb storage card.
	A-A1U2	38				
	A-A1P2	1				
	A-A1N2	1				
1681	A-A1Q2	60				Main storage write parity check. A-A1T2 is a 512Kb storage card.
	A-A1T2	38				
	A-A1P2	1				
	A-A1N2	1				
1682	A-A1Q2	60				Main storage write parity check. A-A1S2 is a 512Kb storage card.
	A-A1S2	38				
	A-A1P2	1				
	A-A1N2	1				
1683	A-A1R2	50				Main stg write parity check. A1R2 is a 256Kb storage card.
	A-A1Q2	48				
	A-A1P2	1				
	A-A1N2	1				
1684	A-A1U2	87				Main stg write parity check. A1U2 is a 128Kb storage card.
	A-A1Q2	11				
	A-A1P2	1				
	A-A1N2	1				
1685	A-A1T2	87				Main stg write parity check. A1T2 is a 128Kb
	A-A1Q2	11				

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	A-A1P2   1					storage card.
	A-A1N2   1					
1686	A-A1S2   87					Main storage write parity check.
	A-A1Q2   11					A-A1S2 is a 128Kb storage card.
	A-A1P2   1					
	A-A1N2   1					
1687	A-A1R2   87					Main storage write parity check.
	A-A1Q2   11					A-A1R2 is a 128Kb storage card.
	A-A1P2   1					
	A-A1N2   1					
1688	A-A1U2   50					Main stg write parity check. A1U2 is a 256Kb storage card.
	A-A1Q2   48					
	A-A1P2   1					
	A-A1N2   1					
1689	A-A1T2   50					Main stg write parity check. A1T2 is a 256Kb storage card.
	A-A1Q2   48					
	A-A1P2   1					
	A-A1N2   1					
168A	A-A1S2   50					Main stg write parity check. A1S2 is a 256Kb storage card.
	A-A1Q2   48					
	A-A1P2   1					
	A-A1N2   1					
168C	A-A1Q2   60					Main storage write parity check.
	A-A1R2   38					A-A1R2 is a 512Kb storage card.
	A-A1P2   1					
	A-A1N2   1					
16E8	A-A1N2   59					Wrong MSP error.
	A-A1Q2   41					
16EA	A-A1N2   94					MSP MSAR Parity Check.
	A-A1Q2   6					
16Eb	A-A1N2   60					Wrong MSP error during cycle steal.
	A-A1Q2   40					
16EC	A-A1N2   60					MSP MSAR Parity Check during cycle steal.
	A-A1Q2   40					

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16F0	A-A1N2 A-A1M2	90 5	0105A			A CSP error occurred. REIPL the system then look up the new SRC in ERAP CSP error history table and use MAP 0113, 0114, 0115, and 0116 for definition of new SRC.
16F1	MS A-A1Q2	75 20	0105A			MSP error: main storage access timeout. REIPL the system then run the new SRC in ERAP CSP error history table and use MAP 0113, 0114, 0115, and 0116 for definition of new SRC.
16F2	A-A1P2 A-A1Q2 MS A-A1N2	50 30 15 2	0105A			MSP error: parity checks. REIPL the system then run the new SRC in ERAP CSP error history table and use MAP 0113, 0114, 0115, and 0116 for definition of new SRC.
16F3	A-A1N2 A-A1E2/ A-A2E2/ A-A2J2 A-A1H2 A-A1K2/ A-A3S2/ A-A3P2 A-A2N2 A-A2S2/ A-A2T2 A-A1J2 X-Over A-A1L2	10 10  10 10  10 10 10 10 5 5 1	0105A			A channel error occurred. REIPL the system then run the new SRC in ERAP CSP error history table and use MAP 0113, 0114, 0115, and 0116 for definition of new SRC. Check for bad Channel terminator card. Only one will be present at either A1B5, A2U3, A3U3 or A3U4. Terminator cd P/N 4234073.
16F4	A-A1N2 A-A1M2	90 5	0105A			A control storage ECC occurred. REIPL the system then

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												run the new SRC in ERAP CSP error history table and use MAP 0113, 0114, 0115, and 0116 for definition of new SRC.
16F5	A-A1N2	75	0101C									Interrupt level 1 occurred for an unknown device. REIPL the system then run the new SRC in ERAP CSP error history table and use MAP 0113, 0114, 0115, and 0116 for definition of new SRC.
16F6	A-A1N2 A-A1K2/ A-A3S2/ A-A3P2	45 45	0101C									Interrupt level 2 occurred for an unknown device. Could be any card on the channel bus causing the problem. REIPL the system then run the new SRC in ERAP CSP error history table and use MAP 0113, 0114, 0115, and 0116 for definition of new SRC.
16F7	A-A1N2	75	0101C									Interrupt level 3 occurred for an unknown device. REIPL the system then run the new SRC in ERAP CSP error history table and use MAP 0113, 0114, 0115, and 0116 for definition of new SRC.
16F8	A-A1N2 A-A1H2 A-A3S2 A-A1E2/ A-A2E2/ A-A2J2 A-A2N2 A-A2S2	10 10 10 10  10 10	0101C									Interrupt level 4 occurred for an unknown device. REIPL the system then run the new SRC in ERAP CSP error history table and use MAP 0113, 0114, 0115, and 0116 for definition of new SRC.

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16FF	A-A1N2	10	0301				See MAP 0301 for more information on this system reference code.
	A-A1P2	10					
	A-A1Q2	10					
	MS	10					
	A-A1M2	10					
	A-A1Z2	10					
	X-Over	5					
***** 6157 Tape *****							
1702	A-A1E2	95					DSA3 cycle steal parity check on read.
1703	A-A1E2	95					DSA3 cycle steal parity check on write.
1704	A-A1E2	60					DSA3 Tactical Bus out parity check.
	A-A1D2	35					* Run tape OLPD. Reseat A-A1D2 and topcard connector before replacing FRUs.
1705	A-A1D2	65					DSA3 Tactical Bus in parity check.
	A-A1E2	30					* Run tape OLPD. Reseat A-A1D2 and topcard connector before replacing FRUs.
1706	A-A1E2	65					DSA3 data out parity check detected by DLC (tactical bus)
	A-A1D2	30					* Run tape OLPD. Reseat A-A1D2 and topcard connector before replacing FRUs.
1707	A-A1E2	60					Incorrect end op conditions
	A-A1D2	30					* Run tape OLPD.
	A-A1N2	5					Reseat A-A1D2 and topcard connector before

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					replacing FRUs.
1708	A-A1E2 A-A1D2 A-A1N2	45 30 20			DSA3 system DPC load/ sense parity check * Run tape OLPD. Reseat A-A1D2 and topcard connector before replacing FRUs.
1709	A-A1E2 A-A1D2	50 45			Incorrect DSA3 DLC address counter value * Run tape OLPD procedures before replacing FRUs. Reseat card (A-A1D2) and topcard connector before replacing FRUs. Run OLPD.
170A	A-A1D2	95			Data length check (HDW) * Run tape OLPD. Reseat card (A-A1D2) and topcard connector before replacing FRUs.
170b	A-A1D2 A-A1E2 T Unit	65 15 15			DLC Transfer complete not active * Run tape OLPD. Reseat A-A1D2 and topcard connector before replacing FRUs.
170C	A-A1E2 A-A1N2	65 30			Cycle steal LSR ending value incorrect
170d	A-A1D2 A-A1E2	50 45			DSA3 Transfer Ready not active for data transfer * Run tape OLPD. Reseat A-A1D2 and topcard connector before replacing FRUs.
170E	Program				Invalid tape volume sequence check * Wrong tape volume -

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1710	Program							Command not valid
1711	Program							End of Volume encountered normal - completion.
1712	Program							Stack pointer overflow
1713	Program							Invalid command modifier.
1714	Program							Invalid tape data length associated with command.
1716	Program							Invalid command in write mode.
1717	Program							Invalid command in read mode.
1718	Program							Invalid command with file open.
1719	Program							Invalid command with file closed.
171A	Program							Invalid command with file suspended.
171C	Program							Invalid command with tape at beginning of tape.
171E	Program							Invalid command with file not suspended.
171F	Program							Invalid command sequence.
1721	Program							Invalid command invalid label.
1722	Program							Stack pointer underflow
1723	Program							Command not valid with tape not at Gap 0
1726	Program							Invalid file number

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						specified.
1728	Program					Indeterminate error
1729	A-A1E2 A-A1D2 T Unit	60 20 15				Permanent tape subsystem error. * Run tape OLPD. Reseat A-A1D2 and topcard connector before replacing FRUs.
172A	Program					MSP buffer not large enough on a read / write block command
172b	T Unit Program	95				Data block contains invalid data on a read command
172F	Program					File is on previous tape volume. * Wrong tape cartridge, file not on this tape.
1730	Program					Tape drive is unable to receive or send data * Busy executing command.
1734	Program					Data length shorter than requested
1735	T Unit A-A1D2 Program	85 10				Invalid volume ID * Blank cartridge or not IBM SL format.
1736	T Unit Program	95				LE0T found searching for label * Wrong cartridge, file not on tape
1738	T Unit A-A1D2 Program	85 10				File block counter not equal to count in trailer label or block descriptor * 10CH code

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1739	T Unit A-A1D2 Program	85 10					Invalid header label Cartridge not IBM format.
173A	T Unit	95					Beginning of tape found, but not expected.
173b	T Unit A-A1D2 Program	85 10					Invalid trailer label Cartridge not IBM format.
173C	Program						Previous device-to- device op failed
173d	T Unit Program	95					Invalid file mark encountered Cartridge not IBM format.
173E	T Unit A-A1D2 Program	85 10					Invalid tape format.
173F	Program						Write attempted without retension or erase.
1740	A-A1D2 T Unit A-A1A3	50 40 5					Timeout waiting for command to be accepted * Run tape OLPD. Reseat A-A1D2, top card connector and internal cable A-A1A3 before replacing FRUs.
1741	T Unit A-A1D2 A-A1A3	50 40 5					Bad parity on tape bus during read * Run tape OLPD. Reseat A-A1D2, top card connector and internal cable A-A1A3 before replacing FRUs.
1742	A-A1D2 T Unit A-A1A3	50 40 5					Unable to reset ready end or exception interrupt. * Run tape OLPD. Reseat A-A1D2, top card connector

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						land internal cable A-A1A3 before replacing FRUs.
1743	T Unit A-A1D2 A-A1A3	50 40 5				Timeout waiting for command termination * Run tape OLPD. Reseat A-A1D2, top card connector and internal cable A-A1A3 before replacing FRUs.
1744	A-A1D2 A-A1E2	70 25				Tape data in parity check is stuck on. * Run tape OLPD. Reseat A-A1D2, top card connector and internal cable A-A1A3 before replacing FRUs.
1745	Program					Data length longer than requested
1746	T Unit A-A1D2 A-A1A3	70 20 5				Exception is on unexpectedly * Run tape OLPD. Reseat A-A1D2, top card connector and internal cable A-A1A3 before replacing FRUs.
1747	T Unit A-A1D2 A-A1A3	45 40 10				Drive not ready to accept command * Run tape OLPD. Reseat A-A1D2, top card connector and internal cable A-A1A3 before replacing FRUs.
1748	T Unit A-A1D2 A-A1A3	45 40 10				No ready response when command issued * Run tape OLPD. Reseat A-A1D2, top card connector and internal cable A-A1A3 before replacing FRUs.
174A	A-A1N2 Program	80 15				Second error during error recovery

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174b	A-A1D2 T Unit A-A1A3	85 5 5				Unexpected interrupt by the Tape DLC * Run tape OLPD. Reseat A-A1D2, top card connector and internal cable A-A1A3 before replacing FRUs.
1750	T Unit A-A1D2 A-A1A3	60 35 5				Reset command failed to reset interface. Drive not powered on or unit not connected properly. * Run tape OLPD. Reseat A-A1D2, top card connector and internal cable A-A1A3 before replacing FRUs.
1751	T Unit A-A1D2 A-A1A3	85 5 5				Reset command failed * Run tape OLPD. Reseat A-A1D2, top card connector and internal cable A-A1A3 before replacing FRUs.
1752	A-A1D2 T Unit	50 45				No ready end to indicate a status byte is available. * Run tape OLPD. Reseat A-A1D2, top card connector and internal cable A-A1A3 before replacing FRUs.
1753	A-A1D2 T Unit A-A1A3	60 30 5				Tape data in parity check during command response (DPC) * Run tape OLPD. Reseat A-A1D2, top card connector and internal cable A-A1A3 before replacing FRUs.
1755	T Unit A-A1D2	80 15				Ready not off after reading status byte * Run tape OLPD. Reseat A-A1D2, top card connector and internal cable A-A1A3 before replacing FRUs.

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1766	Media T Unit	90 5								Write abort. * Operator may have moved loading lever on tape drive unit while drive in operation. If unable to separate media/operator/ hardware run tape OLPD.
1768	Media T Unit	90 5								EOM detected while executing command * If unable to separate media/operator/hardware run tape OLPD.
1769	Media T Unit	90 5								Read error. No data detected & EOM detected. Run Tape OLPD.
176b	Media T Unit	90 5								Read error. Bad block transferred. * If unable to separate media/operator/hardware run tape OLPD.
176c	Media T Unit	90 5								Read error. Filler block transferred * If unable to separate media/operator/hardware run tape OLPD.
176d	Media T Unit	90 5								Read error. No data detected & BOM detected. * If unable to separate media/operator/hardware run tape OLPD.
1770	A-A1D2 T Unit A-A1A3	60 30 5								Illegal Tape command specified * Run tape OLPD. Reseat A-A1D2, top card connector and internal cable A-A1A3 before replacing FRUs.
1771	A-A1D2	60								Bad parity on Tape bus

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	T Unit	30				during write
	A-A1A3	5				* Run tape OLPD. Reseat A-A1D2, top card connector and internal cable A-A1A3 before replacing FRUs.
1772	Media	70				Device fault error.
	T Unit	30				* Media potential. Verify cartridge turns freely, etc. Run OLPD.
1773	T Unit	50				Unexpected exception
	A-A1D2	35				(status byte) condition
	A-A1E2	10				Invalid status from drive.
1774	T Unit	95				Unexpected power
						On/Reset detected
1781	User	90				* No tape cartridge or
	T Unit	5				cartridge not in place. Operator may have moved loading lever on tape drive unit while drive in operation. If unable to separate media/operator/hardware run tape OLPD.
17A6	User	70				Tape file protected on
	T Unit	5				write operation * Inspect cartridge case to verify the media is wound on both reels and is visible through the door on the cartridge. If unable to separate media/operator/hardware run tape OLPD.
17E0	T Unit	50				Self Test Invalid format
	A-A1D2	25				results returned from
	A-A1A3	20				drive * Run tape OLPD. Reseat A-A1D2, top card connector

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						and internal cable A-A1A3 before replacing FRUs.
17E1	T Unit Media	95 3				Self Test Speed or Sensor error encountered. * Verify the media is wound on both reels and is visible through the door on the cartridge. Verify the cartridge is installed correctly.
17F0	A-A1D2 A-A1E2	85 10				Adapter error (OLPD) * Run tape OLPD. Reseat A-A1D2, top card connector and internal cable A-A1A3 before replacing FRUs.
17F1	A-A1A3	95				Cable error (OLPD) * Reseat wrap connector and internal cable A-A1A3 before replacing FRUs. Run OLPD.
17F2	Program					Invalid screen number from SRC during OLPD.
17F5	A-A1D2 A-A1E2	50 45				Tactical bus during OLPD. * Reseat A-A1D2 and top card connector before replacing FRUs. Run OLPD
17F6	A-A1D2 A-A1A3	60 35				Tape Interface during OLPD * Reseat wrap connector and internal cable A-A1A3 before replacing FRUs.
17F7	Program					Undetermined error during OLPD wraps.
17F8	A-A1E2 A-A1D2	85 10				DSA error during OLPD.
17F9	T Unit	95				Tape Unit error

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17Fb	T Unit	95					File mark not read during  OLPD.
17FC	T Unit	65					Data compare error during  OLPD.
	A-A1D2	15					
	A-A1E2	15					
17Fd	User	70					Cartridge not write  protected during OLPD.
	T Unit	25					
***** Communications 18xx *****							
1800							No failure detected.  For communication line  problems, go to MAP 3003A.  For communications  controller problems look  up the latest  communication controller  ERAP entries. If SRCs  other than 1800 are  recorded, replace  indicated FRUs. If the  latest entries are 1800s,  go to MAP 3091 and use the  charts to isolate the FRU.  If no failure can be  detected and no FRU  information is obtained  from controller ERAP, use  the FRUs listed in MAP  3009 as an intermittent  FRU replacement list.
1810	A-A3S2	60	3003A		30-700	SS-300	Controller load failure.
	X-Over	25					
1811	A-A3S2	90	3003A	T6101	30-700	SS-300	Bus coupler failed test  (controller wrap test  failure).
	X-Over	5		T6102			
				T6103			
				T6104			
1814	A-A3S2	95	3003A		30-700	SS-300	Controller failure

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	X-Over	2					(controller wrap test failure).
1815	A-A3S2 X-Over	95 2	3003A		30-700	SS-300	Controller storage failure (controller wrap test failure).
1816	A-A3P2 A-A3F2/ A-A3G2/ A-A3H2/ A-A3J2/ A-A3K2/ A-A3L2/ A-A3M2/ A-A3N2/ X-Over	90 9       1	3000A				Controller failure, controller wrap test failure.
1821	A-A3R2 A-A3S2 X-Over	85 12 1	3003A		30-700	SR-300 SS-300	Line 1 - test failed on line 1 adapter (controller wrap test failure).
1822	A-A3Q2 A-A3S2	85 12	3003A		30-700	SQ-300 SS-300	Line 2 - test failed on line 2 adapter (controller wrap test failure).
1823	A-A3S2 A-A3Q2 A-A3R2	49 25 25	3003A			SS-300	Test failed on lines 1 & 2 (controller wrap test failure).
1824	A-A3P2 A-A3S2	85 12	3003A		30-700	SP-300 SS-300	Line 3 - test failed on line 3 adapter (controller wrap test failure).
1825	A-A3S2 A-A3R2 A-A3P2	49 25 25	3003A		30-700	SS-300	Test failed on lines 1 & 3 (controller wrap test failure).
1826	A-A3S2 A-A3Q2 A-A3P2	49 25 25	3003A			SS-300	Test failed on lines 2 & 3 (controller wrap test failure).
1827	A-A3S2	49	3003A		30-700	SS-300	Test failed on lines 1,

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	A-A3R2	15					2 & 3 (controller wrap test failure).
	A-A3Q2	15					
	A-A3P2	15					
1828	A-A3N2	85	3003A		30-700	SN-300	Line 4 - test failed on line 4 adapter (controller wrap test failure).
	A-A3S2	12				SS-300	
1829	A-A3S2	49	3003A		30-700	SS-300	Test failed on lines 2 & 4 (controller wrap test failure).
	A-A3R2	25					
	A-A3N2	25					
182A	A-A3S2	49	3003A		30-700	SS-300	Test failed on lines 2 & 4 (controller wrap test failure).
	A-A3N2	25					
	A-A3Q2	25					
182b	A-A3S2	49	3003A		30-700	SS-300	Test failed on lines 1, 2 & 4 (controller wrap test failure).
	A-A3R2	15					
	A-A3Q2	15					
	A-A3N2	15					
182C	A-A3S2	49	3003A		30-700	SS-300	Test failed on lines 3 & 4 (controller wrap test failure).
	A-A3P2	25					
	A-A3N2	25					
182d	A-A3S2	49	3003A		30-700	SS-300	Test failed on lines 1, 3 & 4 (controller wrap test failure).
	A-A3R2	15					
	A-A3P2	15					
	A-A3N2	15					
182E	A-A3S2	49	3003A		30-700	SS-300	Test failed on lines 2, 3 & 4 (controller wrap test failure).
	A-A3Q2	15					
	A-A3P2	15					
	A-A3N2	15					
182F	A-A3S2	55	3003A		30-700	SS-300	Test failed on all line adapters (controller wrap test failure).
	A-A3N2	10					
	A-A3P2	10					
	A-A3Q2	10					
	A-A3R2	10					
1830							BSC Receive Time-out Data Mode. See MIM Sections 30-510 to

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										30-517 for more information.
1831										BSC Not Data Set Ready. See MIM Sections 30-510 to 30-517 for more information.
1832										BSC Abortive Disconnect. See MIM Sections 30-510 to 30-517 for more information.
1833										BSC Receive Adapter Check. See MIM Sections 30-510 to 30-517 for more information.
1834										BSC Transmit Adapter Check. See MIM Sections 30-510 to 30-517 for more information.
1835										BSC Block Check (LRC/CRC/VRC) error. See MIM Sections 30-510 to 30-517 for more information.
1836										BSC Receive Time-out. See MIM Sections 30-510 to 30-517 for more information.
1837										BSC ASCII Character not valid. See MIM Sections 30-510 to 30-517 for more information.
1838										SDLC Adapter Check (Overrun/Underrun). See MIM Sections 30-520 to

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							30-527 for more information.
1839							SDLC Abortive Disconnect (DCE clear- X.21 only). See MIM Sections 30-520 to 30-527 for more information.
183A							SDLC Not Data Set Ready. See MIM Sections 30-520 to 30-527 for more information.
183b							SDLC Time-out (if primary station, this is a 16-second nonproductive time-out. If secondary, this is a 32-second inactivity time-out). See MIM Sections 30-520 to 30-527 for more information.
183C							SDLC Idle Detected (primary station). See MIM Sections 30-520 to 30-527 for more information.
183d							SDLC Frame not valid. See MIM Sections 30-520 to 30-527 for more information.
183E							SDLC Frame Check (data check). See MIM Sections 30-520 to 30-527 for more information.
183F							SDLC Receive Buffer Overrun. See MIM Sections 30-520 to

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						30-527 for more information.
1840	A-A3P2 A-A3F2/ A-A3G2/ A-A3H2/ A-A3J2/ A-A3K2/ A-A3L2/ A-A3M2/ A-A3N2/	90 10	3000A			Test failed on multiple communications adapters. Controller wrap test failure.
1841	A-A3F2 A-A3P2	95 5	3000A			Test failed on line 1 communication line adapter. Communications line adapter type is unknown. Controller wrap test fail.
1842	A-A3G2 A-A3P2	95 5	3000A			Test failed on line 2 communication line adapter. Communications line adapter type is unknown. Controller wrap test fail.
1843	A-A3H2 A-A3P2	95 5	3000A			Test failed on line 3 communication line adapter. Communications line adapter type is unknown. Controller wrap test fail.
1844	A-A3J2 A-A3P2	95 5	3000A			Test failed on line 4 communication line adapter. Communications line adapter type is unknown. Controller wrap test fail.
1845	A-A3K2 A-A3P2	95 5	3000A			Test failed on line 5 communication line adapter. Communications

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						line adapter type is unknown. Controller wrap test fail.
1846	A-A3L2 A-A3P2	95 5	3000A			Test failed on line 6 communication line adapter. Communications line adapter type is unknown. Controller wrap test fail.
1847	A-A3M2 A-A3P2	95 5	3000A			Test failed on line 7 communication line adapter. Communications line adapter type is unknown. Controller wrap test fail.
1848	A-A3N2 A-A3P2	95 5	3000A			Test failed on line 8 communication line adapter. Communications line adapter type is unknown. Controller wrap test fail.
1849	A-A3F2/ A-A3G2/ A-A3H2/ A-A3J2/ A-A3K2/ A-A3L2/ A-A3M2/ A-A3N2/ A-A1K2/ A-A3P2	96 1	3000A			EIA/CCITT communication line adapter failure. Basic communication diagnostic test failure.
184A	A-A3F2/ A-A3G2/ A-A3H2/ A-A3J2/ A-A3K2/ A-A3L2/ A-A3M2/ A-A3N2/	96	3000A			DDSA communication line adapter failure.

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	A-A1K2/					
	A-A3P2	1				
184b	A-A3F2/	96	3000A			X.21 communication line adapter failure.
	A-A3G2/					Basic communication diagnostic test failure.
	A-A3H2/					
	A-A3J2/					
	A-A3K2/					
	A-A3L2/					
	A-A3M2/					
	A-A3N2/					
	A-A1K2/					
	A-A3P2	1				
184c	A-A3F2/	96	3000A			V.35 communication line adapter failure.
	A-A3G2/					Basic communication diagnostic test failure.
	A-A3H2/					
	A-A3J2/					
	A-A3K2/					
	A-A3L2/					
	A-A3M2/					
	A-A3N2/					
	A-A3P2	1				
1851	SLCA		3003A	30-700		Test 1 - test buffer register
	A-A1K2	95				
	MLCA					
	A-A3R2/	95			SR-300	Line 1- Line adapter error
	A-A3Q2/				SQ-300	Line 2- Line adapter error
	A-A3P2/				SP-300	Line 3- Line adapter error
	A-A3N2				SN-300	Line 4- Line adapter error
1852	SLCA		3003A	30-700		Test 2 - test control output register
	A-A1K2	95				
	MLCA					
	A-A3R2/	95			SR-300	Line 1- Line adapter error
	A-A3Q2/				SQ-300	Line 2- Line adapter error
	A-A3P2/				SP-300	Line 3- Line adapter error
	A-A3N2				SN-300	Line 4- Line adapter error
1853	SLCA		3003A	30-700		Test 3 - test DSR w/interrupt
	A-A1K2	95				
	MLCA					
	A-A3R2/	95			SR-300	Line 1- Line adapter error

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	A-A302/				SQ-300	Line 2- Line adapter error
	A-A3P2/				SP-300	Line 3- Line adapter error
	A-A3N2				SN-300	Line 4- Line adapter error
1854	SLCA		3003A	T8109	30-700	Test 4 - test timer w/interrupt
	A-A1K2	95				
	MLCA					
	A-A3R2/	95			SR-300	Line 1- Line adapter error
	A-A3Q2/				SQ-300	Line 2- Line adapter error
	A-A3P2/				SP-300	Line 3- Line adapter error
	A-A3N2				SN-300	Line 4- Line adapter error
1855	SLCA		3003A		30-700	Test 5 - test overrun
	A-A1K2	95				
	MLCA					
	A-A3R2/	95			SR-300	Line 1- Line adapter error
	A-A3Q2/				SQ-300	Line 2- Line adapter error
	A-A3P2/				SP-300	Line 3- Line adapter error
	A-A3N2				SN-300	Line 4- Line adapter error
1856	SLCA		3003A		30-700	Test 6 - test transmit data
	A-A1K2	95				
	MLCA					
	A-A3R2/	95			SR-300	Line 1- Line adapter error
	A-A3Q2/				SQ-300	Line 2- Line adapter error
	A-A3P2/				SP-300	Line 3- Line adapter error
	A-A3N2				SN-300	Line 4- Line adapter error
1857	SLCA		3003A		30-700	Test 7 - test receive data
	A-A1K2	95				
	MLCA					
	A-A3R2/	95			SR-300	Line 1- Line adapter error
	A-A3Q2/				SQ-300	Line 2- Line adapter error
	A-A3P2/				SP-300	Line 3- Line adapter error
	A-A3N2				SN-300	Line 4- Line adapter error
1858	Xcable	99	3000A			EIA/CCITT external cable failure. Basic communication diagnostic test failure.
1859	Xcable	99	3000A			Autocall external cable failure. Basic communication

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						diagnostic test failure.
185A	Xcable DCE	50 50	3000A			X.21 external cable or DCE failure. Basic communication diagnostic test failure.
185b	Xcable Modem	50 50	3000A			V.35 external cable or modem. Basic communication diagnostic test failure.
185C	Xcable	99	3000A			DDSA external cable failure. Basic communication diagnostic test failure.
1860	Lmodem Network Rmodem	60 20 6				Modem LPDA local/remote status manual test (no response from local modem)
1868	Network Lmodem Rmodem	55 35 6				Modem LPDA local/remote status manual test (local data quality = 8).
1869	Network Lmodem Rmodem	55 35 6				Modem LPDA local/remote status manual test (local data quality = 9).
186A	Network Lmodem Rmodem	55 35 6				Modem LPDA local/remote status manual test (local data quality =10).
186b	Network Lmodem Rmodem	55 35 6				Modem LPDA local/remote status manual test (local data quality =11).
186C	Network Lmodem Rmodem	55 35 6				Modem LPDA local/remote status manual test (local data quality =12).
186d	Network Lmodem Rmodem	55 35 6				Modem LPDA local/remote status manual test (local data quality =13).



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186E	Network	55			Modem	LPDA local/remote status
	Lmodem	35			manual	test (local data quality
	Rmodem	6				=14).
186F	Network	55			Modem	LPDA local/remote status
	Lmodem	35			manual	test (local data quality
	Rmodem	6				=13).
1870	DCE	40	3000A			Adapter error Japan V.35
	A-A3F2/	30				DCE wrap test 1.
	A-A3G2/					Xcable = V.35 external
	A-A3H2/					cable
	A-A3J2/					
	A-A3K2/					
	A-A3L2/					
	A-A3M2/					
	A-A3N2/					
	Xcable	20				Basic communication
	Icable	10				diagnostic test failure.
1871	Lmodem	40	3000A			Adapter error Japan V.35
	A-A3F2/	30				DCE wrap test 2.
	A-A3G2/					Xcable = V.35 external
	A-A3H2/					cable
	A-A3J2/					
	A-A3K2/					
	A-A3L2/					
	A-A3M2/					
	A-A3N2/					
	Xcable	20				Basic communication
	Icable	10				diagnostic test failure.
1872	DCE	40	3000A			Adapter error during X.21
	A-A3F2/	30				DCE test or cable tower
	A-A3G2/					wrap. Xcable = X.21
	A-A3H2/					external cable
	A-A3J2/					
	A-A3K2/					
	A-A3L2/					
	A-A3M2/					
	A-A3N2/					
	Xcable	20				Basic communication
	Icable	10				diagnostic test failure.

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1873	A-A3F2/	50	3000A				EIA/CCITT adapter error Japan cable wrap transmit to receive. Xcable = EIA external cable (including stub cable)
	A-A3G2/						
	A-A3H2/						
	A-A3J2/						
	A-A3K2/						
	A-A3L2/						
	A-A3M2/						
	A-A3N2/						
	A-A1K2/						
	Xcable	35					Basic communication
	Icable	15					diagnostic test failure.
1874	A-A3F2/	50	3000A				EIA/CCITT adapter error Japan cable wrap DTR DSR RTS CTS EIA/CCITT. Xcable = EIA external cable (including stub cable).
	A-A3G2/						
	A-A3H2/						
	A-A3J2/						
	A-A3J2/						
	A-A3K2/						
	A-A3L2/						
	A-A3M2/						
	A-A3N2/						
	A-A1K2/						
	Xcable	35					Basic communication
	Icable	15					diagnostic test failure.
1875	Lmodem	40	3000A				EIA/CCITT adapter error Japan cable wrap, no receive timing.
	A-A3F2/	30					
	A-A3G2/						
	A-A3H2/						
	A-A3J2/						Xcable = EIA external
	A-A3K2/						
	A-A3L2/						
	A-A3M2/						
	A-A3N2/						
	A-A1K2/						
	Xcable	20					Basic communication
	Icable	10					diagnostic test failure.
187A	I/E cb1	30	3003A	T8158	36-XXX	SL-350	Line 4 - line adapter
	LDCE	30				SN-300	error during Japan V.35
	A-A3L4	30					DCE wrap test 1 (line
	A-A3N2	5					wrap test failure).
							LDCE = local DCE.

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187b	I/E cb1   30	3003A	T8159	36-XXX	SL-350 SN-300	Line 4 - line adapter error during Japan V.35 DCE wrap test 2 (line wrap test failure).
	LDCE   30					
	A-A3L4   30					
	A-A3N2   5					
187c	SLCA:	3003A	T8140	36-XXX		line adapter error during X.21 DCE wrap test. (line test wrap error) LDCE = Local DCE
	I/E cb1   30					
	LDCE   30					
	A-A1G2   30					
	A-A1K2   5					
	MLCA:					
	I/E cb1   30					
	LDCE   30					
	A-A3M2/   30					
	A-A3L2/					
	A-A3M4/					
	A-A3L4					
	A-A3R2/   5					
	A-A3Q2/					
	A-A3P2/					
	A-A3N2					
187d	SLCA:	3003A				Line adapter error. Japan cable wrap to receive. (line wrap test failure)  LDCE = local DCE
	I/E cb1   50					
	LDCE   20					
	A-A1G2   20					
	A-A1K2   10					
	MLCA:					
	I/E cb1   50					
	LDCE   20					
	A-A3M2/   20					
	A-A3L2/					
	A-A3M4/					
	A-A3L4					
	A-A3R2/   10					
	A-A3Q2/					
	A-A3P2/					
	A-A3N2					
187E	SLCA:	3003A				Line adapter error. Japan cable wrap DTR, DSR, RTS, CTS
	I/E cb1   70					
	A-A1G2   20					

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	A-A1K2	10				(line wrap test failure)
	MLCA:					
	I/E cb1	70				
	A-A3M2/	20				
	A-A3L2/					
	A-A3M4/					
	A-A3L4					
	A-A3R2/	10				
	A-A3Q2/					
	A-A3P2/					
	A-A3N2					
187F	SLCA:		3003A			Line adapter error. Japan
	LDCE	55				cable wrap receive timing
	Ext cb1	25				(line wrap test failure)
	A-A1G2	10				
	A-A1K2	10				LDCE = local DCE
	MLCA					
	LDCE	55				
	Ext cb1	25				
	A-A3M2/	10				
	A-A3L2/					
	A-A3M4/					
	A-A3L4					
	A-A3R2/	10				
	A-A3Q2/					
	A-A3P2/					
	A-A3N2					
1880	Card 1	40	3003A		Modem manual	LPDA local selftest error
	Card 2	30				(no response from local
	Card 3	20				Modem)
	Coupler	5				No P/N supplied, see
	CALA	5				local LPDA Modem.
						* The Modem cards listed
						are valid only for 386x
						Modems.
						CALA = Comm Adapter, Line
						Adapter or Cables.
1881	Coupler	90			Modem manual	LPDA local selftest error
	Card 3	2				(local extrnl modem fail)
	Card 2	2				No P/N supplied, see
	Card 1	2				local LPDA Modem.

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					* The Modem cards listed are valid only for 386x Modems.
1882	Card 3 Card 1 Coupler Card 2	91 3 2 2		Modem manual	LPDA local selftest error (local extrnl modem fail) No P/N supplied, see local LPDA Modem. * The Modem cards listed are valid only for 386x Modems.
1883	Card 3 Coupler Card 2 Card 1	50 40 2 2		Modem manual	LPDA local selftest error (local extrnl modem fail) No P/N supplied, see local LPDA Modem. * The Modem cards listed are valid only for 386x Modems.
1884	Card 2 Card 1 Card 3 Coupler	72 15 2 2		Modem manual	LPDA local selftest error (local extrnl Modem fail) No P/N supplied, see local LPDA Modem. * The Modem cards listed are valid only for 386x Modems.
1885	Card 2 Coupler Card 1 Card 3	50 40 2 2		Modem manual	LPDA local selftest error (local extrnl modem fail) No P/N supplied, see local LPDA Modem. * The Modem cards listed are valid only for 386x Modems.
1886	Card 2 Coupler Card 1 Card 3	50 40 2 2		Modem manual	LPDA local selftest error (local extrnl modem fail) No P/N supplied, see local LPDA Modem. * The Modem cards listed are valid only for 386x Modems.

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1887	Card 2	40			Modem	LPDA local selftest error
	Card 3	27			manual	(local extrnl modem fail)
	Coupler	25				No P/N supplied, see
	Card 1	2				local LPDA Modem.
						* The Modem cards listed
						are valid only for 386x
						Modems.
-----						
1888	Card 1	73			Modem	LPDA local selftest error
	Coupler	5			manual	(local extrnl modem fail)
	Card 2	5				No P/N supplied, see
	Card 3	2				local LPDA Modem.
						* The Modem cards listed
						are valid only for 386x
						Modems.
-----						
1889	Card 1	50			Modem	LPDA local selftest error
	Coupler	40			manual	(local extrnl modem fail)
	Card 2	2				No P/N supplied, see
	Card 3	2				local LPDA Modem.
						* The Modem cards listed
						are valid only for 386x
						Modems.
-----						
188A	Card 1	50			Modem	LPDA local selftest error
	Card 3	40			manual	(local extrnl modem fail)
	Coupler	2				No P/N supplied, see
	Card 2	2				local LPDA Modem.
						* The Modem cards listed
						are valid only for 386x
						Modems.
-----						
188b	Card 1	40			Modem	LPDA local selftest error
	Card 3	27			manual	(local extrnl modem fail)
	Coupler	25				No P/N supplied, see
	Card 2	2				local LPDA Modem.
						* The Modem cards listed
						are valid only for 386x
						Modems.
-----						
188C	Card 1	50			Modem	LPDA local selftest error
	Card 2	40			manual	(local extrnl modem fail)
	Card 3	2				No P/N supplied, see
	Coupler	2				local LPDA Modem.

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						* The Modem cards listed are valid only for 386x Modems.
188d	Card 1	40			Modem	LPDA local selftest error
	Card 2	27			manual	(local extrnl modem fail)
	Coupler	25				No P/N supplied, see
	Card 3	2				local LPDA Modem.
						* The Modem cards listed are valid only for 386x Modems.
188E	Card 2	40			Modem	LPDA local selftest error
	Card 3	27			manual	(local extrnl modem fail)
	Coupler	25				No P/N supplied, see
	Card 1	2				local LPDA Modem.
						* The Modem cards listed are valid only for 386x Modems.
188F	Coupler	20			Modem	LPDA local selftest error
	Card 3	20			manual	(local extrnl modem fail)
	Card 2	20				No P/N supplied, see
	Card 1	20				local LPDA Modem.
						* The Modem cards listed are valid only for 386x Modems.
188F	Coupler	20			Modem	LPDA local selftest
	Card 3	20			manual	error (local external
	Card 2	20				modem failure).
	Card 1	20				FRU callouts, see
						local LPDA modem - no
						P/N supplied.
						The modem cards listed
						below are valid only for
						386x modems.
						Card 1 - front end card.
						Card 2 - receiver card.
						Card 3 - Processor card.
						Coupler- modem coupler.
1890	A-A3F2/	60	3000A			EIA end of cable wrap
	A-A3G2/					failure (every FRU).

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1894	A-A3F2/	80	3000A			X.21 cable tower wrap failure (CA & ICable)
	A-A3G2/					
	A-A3H2/					
	A-A3J2/					
	A-A3K2/					
	A-A3L2/					
	A-A3M2/					
	A-A3N2/					Basic communication
	A-A1K2/					
	Icable	20				diagnostic test failure.
-----						
1895	A-A3F2/	80	3000A			V.35 WB cable tower wrap failure (CA & ICable)
	A-A3G2/					
	A-A3H2/					
	A-A3J2/					
	A-A3K2/					
	A-A3L2/					
	A-A3M2/					
	A-A3N2/					Basic communication
	Icable	20				diagnostic test failure.
-----						
1896	A-A3F2/	60	3000A			Autocall end of cable wrap failure (every FRU).
	A-A3G2/					
	A-A3H2/					Xcable = A. C. external
	A-A3J2/					cable
	A-A3K2/					
	A-A3L2/					
	A-A3M2/					
	A-A3N2/					
	Xcable	30				Basic communication
	Icable	10				diagnostic test failure.
-----						
1897	SLCA:		3003A	T8150	34-XXX	Line 1 - 4-wire cable tower wrap failure w/DDSA (line wrap test failure).
	A-A1G2	80				
	A-A1K2	10				
	Int cb1	10				
	MLCA:					
	A-A3M2/	80				SM-300
	A-A3L2/					SL-300
	A-A3M4/					SM-350
	A-A3L4					SL-350
	A-A3R2/	10				SR-300
	A-A3Q2/					
	A-A3P2/					

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	A-A3N2					
	Int cb1	10				
1899	A-A3L4	80			SL-350	Line 4 - V35 cable tower
	Int cb1	10			SN-300	wrap error
	A-A3N2	10				(line wrap test failure)
189A	SLCA		3003A	T8151	30-XXX	Line 1 - EIA/CCITT or
	A-A1G2	80		T8152	-or-	autocall cable tower wrap
	A-A1K2	10			30-XXX	error (line wrap test
	Int cb1	10				(line wrap test failure)
	MLCA					
	A-A3M2/	80			SM-300	
	A-A3L2/				SL-300	
	A-A3M4/				SM-350	
	A-A3L4				SL-350	
	A-A3R2/	10			SR-300	
	A-A3Q2/					
	A-A3P2/					
	A-A3N2					
	Int cb1	10				
18A0	Lmodem	90			Modem	LPDA local status test
	Network	10			manual	error (no response).
18A8	Network	65			Modem	LPDA local status test
	Lmodem	16			manual	error (data quality = 8).
	Rmodem	16				
18A9	Network	65			Modem	LPDA local status test
	Lmodem	16			manual	error (data quality = 9).
	Rmodem	16				
18AA	Network	65			Modem	LPDA local status test
	Lmodem	16			manual	error (data quality = 10).
	Rmodem	16				
18Ab	Network	65			Modem	LPDA local status test
	Lmodem	16			manual	error (data quality =
	Rmodem	16				11).
18AC	Network	65			Modem	LPDA local status test
	Lmodem	16			manual	error (data quality =
	Rmodem	16				12).

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18Ad	Network	65				Modem LPDA local status test manual error (data quality = 13).
	Lmodem	16				
	Rmodem	16				
18AE	Network	65				Modem LPDA local status test manual error (data quality = 14).
	Lmodem	16				
	Rmodem	16				
18AF	Network	65				Modem LPDA local status test manual error (data quality = 15).
	Lmodem	16				
	Rmodem	16				
18b0						Line allocation failed (return code not recognized) or test selection is not valid. Program error.
18b1	SLCA:		3003A	T8149	34-XXX	Line 1 - DDSA card wrap error (LS type wrap (line wrap test failure).
	A-A1G2	90				
	A-A1K2	10				
	MLCA:					
	A-A3M2/	90				SM-300
	A-A3L2/					SL-300
	A-A3M4/					SM-350
	A-A3L4					SL-350
	A-A3R2/	10				SR-300
	A-A3Q2/					SQ-300
	A-A3P2/					SP-300
	A-A3N2					SN-300
18b2	Externl modem/ network	70	3003A			Communications SRC. No DSR - (from problem determination tests) but not enough known to do FRU isolation. CE/CSR run MDIs. Suspected external problem.
18b3	Externl modem/ network	50	3003A			Communications SRC. No CTS - (from problem determination tests) but not enough known to do

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							FRU isolation. CE/CSR run MDIs. Suspected external problem.
18b4	Externl modem/network	60	3003A				Communications SRC. No external receive clocking nor DSR - (from problem determination tests) but not enough known to do FRU isolation. CE/CSR run MDIs. Suspected external problem.
18b5	SLCA A-A1G2 A-A1K2 MLCA A-A3M2/ A-A3L2/ A-A3M4/ A-A3L4/ A-A3R2/ A-A3Q2/ A-A3P2/ A-A3N2	90 10  90	3003A	T8146	33-XXX		Line 1 - 1200 I.M. card wrap error (LS type wrap) (line wrap test failure).  SM-300 SL-300 SM-350 SL-350 SR-300 SQ-300 SP-300 SN-300
18b6	IBM Externl modem	80	0101A	T8149			Modem External IBM modem Manual failure. Modem number unknown.
18b7	User						Remote loopback test failure. Suspected external problem or operator problem from problem determination test
18b8	Xmodem A-A3F2/ A-A3G2/ A-A3H2/ A-A3J2/ A-A3K2/ A-A3L2/ A-A3M2/	80 12	3000A				No DSR from external modem Xmodem = external modem Xcable = EIA external cable

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	A-A3N2/					
	A-A1K2/					
	Xcable	6				
	cable	2				
18b9	Xmodem	80	3000A			No CTS from external modem
	A-A3F2/	12				Xmodem = external modem
	A-A3G2/					Xcable = EIA external
	A-A3H2/					cable
	A-A3J2/					
	A-A3K2/					
	A-A3L2/					
	A-A3M2/					
	A-A3N2/					
	A-A1K2/					
	Xcable	6				
	cable	2				
18bA	Xmodem	80	3000A			No external receive clock
	A-A3F2/	12				from external modem.
	A-A3G2/					Xcable = EIA external
	A-A3H2/					cable
	A-A3J2/					
	A-A3K2/					
	A-A3L2/					
	A-A3M2/					
	A-A3N2/					
	A-A1K2/					
	Xcable	6				Xmodem = external modem
	cable	2				
18bb	Xmodem	80	3000A			External modem failure.
	A-A3F2/	12				Xmodem = external modem
	A-A3G2/					Xcable = EIA external
	A-A3H2/					cable
	A-A3J2/					
	A-A3K2/					
	A-A3L2/					
	A-A3M2/					
	A-A3N2/					
	A-A1K2/					
	Xcable	6				
	cable	2				

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18bE	Xmodem	99					External modem failure. (Modem is only FRU) If this is Japan and an EIA/CCITT interface, suspect missing clocking from the modem.
18C0	Network Rmodem Lmodem	50 45 5				Modem manual	LPDA remote selftest error (no response from remote modem).
18C1	Coupler Card 3 Card 2	90 2 2				Modem manual	LPDA remote selftest error (remote LPDA modem failure). No P/Ns supplied, see remote LPDA modem. * The modem cards listed below are valid only for 386x modems.
18C2	Card 3 Card 1 Coupler Card 2	91 3 2 2				Modem manual	LPDA remote selftest error (remote LPDA modem failure). No P/Ns supplied, see remote LPDA modem. * The modem cards listed below are valid only for 386x modems.
18C3	Card 3 Coupler Card 1 Card 2	50 40 2 2				Modem manual	LPDA remote selftest error (remote LPDA modem failure). No P/Ns supplied, see remote LPDA modem. * The modem cards listed below are valid only for 386x modems.
18C4	Card 2 Card 1 Card 3 Coupler	72 15 10 2				Modem manual	LPDA remote selftest error (remote LPDA modem failure). No P/Ns supplied, see remote LPDA modem. * The modem cards listed

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					below are valid only for 386x modems.
18C5	Card 2 Coupler Card 1 Card 3	50 40 2 2		Modem manual	LPDA remote selftest error (remote LPDA modem failure). No P/Ns supplied, see remote LPDA modem. * The modem cards listed below are valid only for 386x modems.
18C6	Card 2 Card 3 Coupler Card 1	50 40 2 2		Modem manual	LPDA remote selftest error (remote LPDA modem failure). No P/Ns supplied, see remote LPDA modem. * The modem cards listed below are valid only for 386x modems.
18C7	Card 2 Card 3 Coupler Card 1	40 27 25 2		Modem manual	LPDA remote selftest error (remote LPDA modem failure). No P/Ns supplied, see remote LPDA modem. * The modem cards listed below are valid only for 386x modems.
18C8	Card 1 Coupler Card 3 Card 2	73 5 2 2		Modem manual	LPDA remote selftest error (remote LPDA modem failure). No P/Ns supplied, see remote LPDA modem. * The modem cards listed below are valid only for 386x modems.
18C9	Card 1 Coupler Card 3 Card 2	50 40 2 2		Modem manual	LPDA remote selftest error (remote LPDA modem failure). No P/Ns supplied, see remote LPDA modem.

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						* The modem cards listed below are valid only for 386x modems.
18CA	Card 1	50			Modem	LPDA remote selftest error (remote LPDA modem failure).
	Card 3	40			manual	No P/Ns supplied, see remote LPDA modem.
	Coupler	2				* The modem cards listed below are valid only for 386x modems.
	Card 2	2				
18Cb	Card 1	40			Modem	LPDA remote selftest error (remote LPDA modem failure).
	Card 3	27			manual	No P/Ns supplied, see remote LPDA modem.
	Coupler	25				* The modem cards listed below are valid only for 386x modems.
	Card 2	2				
18CC	Card 1	50			Modem	LPDA remote selftest error (remote LPDA modem failure).
	Card 2	40			manual	No P/Ns supplied, see remote LPDA modem.
	Card 3	2				* The modem cards listed below are valid only for 386x modems.
	Coupler	2				
18Cd	Card 1	40			Modem	LPDA remote selftest error (remote LPDA modem failure).
	Card 2	27			manual	No P/Ns supplied, see remote LPDA modem.
	Coupler	25				* The modem cards listed below are valid only for 386x modems.
	Card 3	2				
18CE	Card 2	40			Modem	LPDA remote selftest error (remote LPDA modem failure).
	Card 3	27			manual	No P/Ns supplied, see
	Coupler	25				
	Card 1	2				

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						remote LPDA modem. * The modem cards listed below are valid only for 386x modems.
18CF	Coupler Card 3 Card 2 Card 1	20 20 20 20				Modem LPDA remote selftest manual error (remote LPDA modem failure). No P/Ns supplied, see remote LPDA modem. * The modem cards listed below are valid only for 386x modems.
18d0						Asynchronous receive parity error.
18d1						Asynchronous transmit adapter check.
18d2						Asynchronous receive overrun.
18d3						Asynchronous invalid stop bit.
18d4						Asynchronous break detected.
18d5						Asynchronous not clear to send.
18d6						Asynchronous not data set ready.
18d7						Asynchronous receive without DSR.
18d8						AUTOCALL Data Line Occupied (DLO) error. See MIM Sections 30-540 to 30-547 for more information.

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18d9						AUTOCALL Abandon Call Retry (ACR) error. See MIM Sections 30-540 to 30-547 for more information.
18dA						AUTOCALL Present Next Digit (PND) error. See MIM Sections 30-540 to 30-547 for more information.
18db						AUTOCALL Distant Station Connected (DSC) error. See MIM Sections 30-540 to 30-547 for more information.
18dC						AUTOCALL Power Indicate (PWI) error. See MIM Sections 30-540 to 30-547 for more information.
18dd						AUTOCALL unit has received a command that was not valid. See MIM Sections 30-540 to 30-547 for more information.
18dE						AUTOCALL unit has received a telephone number with a length of zero. See MIM Sections 30-540 to 30-547 for more information.
18dF						AUTOCALL Data Terminal Ready (DTR) is off for the communications line. See MIM Sections 30-540 to 30-547 for more information.

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18E0	Network	45			Modem	LPDA local/remote status
	Rmodem	45			manual	test (no response from
	Lmodem	6				remote modem)
18E8	Network	65			Modem	LPDA local/remote test
	Rmodem	16			manual	(remote data quality = 8).
	Lmodem	16				
18E9	Network	75			Modem	LPDA local/remote test
	Rmodem	11			manual	(remote data quality = 9).
	Lmodem	11				
18EA	Network	85			Modem	LPDA local/remote test
	Rmodem	6			manual	(remote data quality =
	Lmodem	6				10).
18Eb	Network	85			Modem	LPDA local/remote test
	Rmodem	6			manual	(remote data quality =
	Lmodem	6				11).
18EC	Network	85			Modem	LPDA local/remote test
	Rmodem	6			manual	(remote data quality =
	Lmodem	6				12).
18Ed	Network	85			Modem	LPDA local/remote test
	Rmodem	6			manual	(remote data quality =
	Lmodem	6				13).
18EE	Network	85			Modem	LPDA local/remote test
	Rmodem	6			manual	(remote data quality =
	Lmodem	6				14).
18EF	Network	85			Modem	LPDA local/remote test
	Rmodem	6			manual	(remote data quality =
	Lmodem	6				15).
18F1						LPDA remote test. Remote
						modem test can not be run.
						Local Modem is not
						configured as a control
						modem.
						Configuration or operator
						problem. LPDA problem

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						determination test.
18F2						X.21 Adapter Check (Overrun) occurred while attempting to make a call. See MIM Sections 30-550 to 30-555 for more information.
18F3						X.21 DCE was not ready or did not become ready after a clear. See MIM Sections 30-550 to 30-555 for more information.
18F4						X.21 DCE clear was done while attempting to make a call. See MIM Sections 30-550 to 30-555 for more information.
18F5						X.21 DCE responded to the selection sequence with a 2X through 8X call progress signal. See MIM Sections 30-550 to 30-555 for more information.
18F6						X.21 Parity error was sensed while attempting to make a call. See MIM Sections 30-550 to 30-555 for more information.
18F7						X.21 T3A Time-out. The DCE did not respond after responding with a call progress signal. See MIM Sections 30-550 to 30-555 for more information.

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						Information.
18F8						X.21 T3B Time-out. The DCE did not respond after responding with an 01, 02, or 03 call progress signal. See MIM Sections 30-550 to 30-555 for more information.
18F9						X.21 T2 Time-out. The DCE did not respond to the selection sequence. See MIM Sections 30-550 to 30-555 for more information.
18FA						X.21 T1 Time-out. The DCE did not respond to a call request. See MIM Sections 30-550 to 30-555 for more information.
18Fb						X.25 Normal completion. See MIM Sections 30-560 to 30-567 for more information.
18FC						X.25 Error completion. See MIM Sections 30-560 to 30-567 for more information.
18Fd						X.25 Attention completion. See MIM Sections 30-560 to 30-567 for more information.
18FE						Unknown communications error. See MIM Section 30-500 for more information.

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***** 21ED Disk - 19xx *****					
1901	A-A1E2/	90	9500A		Replace FRU only if MAPs do not isolate failure.
	A-A2E2				
1902	A-A1C2/	60	9500A		Run MDIs against Drive A. Replace FRUs listed only if MAPs do not isolate failure.
	A-A2C2/				
	A-A1E2/	30			
	A-A2E2				
1903	A-A1D2/	60	9500A		Run MDIs against Drive B. Replace FRUs listed only if MAPs do not isolate failure.
	A-A2D2				
	A-A1E2/	30			
	A-A2E2				
1906	A-A1D2/	60	9500A		Run MDIs against Drive B.
	A-A2D2				
	Drive B	30			
1908			9500A		Take system dump. Disk interrupt caused error not valid.
190A	A-A1C2/	60	9500A		Run MDIs against Drive A. May need to customize or reload SSP.
	A-A2C2				
	Drive A	30			
190b	A-A1D2/	60	9500A		Run MDIs against Drive B.
	A-A2D2				
	Drive B	30			
190d	A-A1D2/	60	9500A		Run MDIs against Drive B.
	A-A2D2				
	Drive B	30			
190E			9500A		Permanent ECC check, sector reassigned to new sector. Customer may need to run 'BUILD' procedure.
1910	Drive A		9500A		
	A-A1E2/	48			
	A-A2E2				

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	A-A1C2/	48				
	A-A2C2					
	Drive B					
	A-A1E2/	48				
	A-A2E2					
	A-A1D2/	48				
	A-A2D2					
-----						
1911	Drive A	9500A				
	A-A1C2/	48				
	A-A2C2					
	F-A1A2	48				
	Drive B					
	A-A1D2/	48				
	A-A2D2					
	G-A1A2	48				
-----						
1912	Drive A	9500A				
	F-A1A2	48				
	F-B1A3	48				
	Drive B					
	G-A1A2	48				
	G-B1A3	48				
-----						
1913	Drive A	9500A				
	F-A1A2	32				
	F-B1A3	32				
	DE	32				
	Drive B					
	G-A1A2	32				
	G-B1A3	32				
	DE	32				
-----						
1914	Drive A	9500A				
	F-A1A2	96				
	Drive B					
	G-A1A2	96				
-----						
1915	Drive A	9500A				
	F-A1A2	50				
	A-A1C2/	26				
	A-A2C2					
	F-B1A3	20				
	Drive B					

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	G-A1A2  50				
	A-A1D2/ 26				
	A-A2D2				
	G-B1A3  20				
1916	Drive A	9500A			
	F-A1A2  48				
	F-C1A1  48				
	Drive B				
	G-A1A2  48				
	G-C1A1  48				
1917	A-A1E2/ 96	9500A			
	A-A2E2				
1918	Drive A	9500A			Run 'Build' procedure first. Replace FRU if problem persists.
	A-A1C2/ 40				
	A-A2C2				
	Drive B				
	A-A1D2/ 40				
	A-A2D2				
1919	Drive A	9500A			Run 'BUILD' procedure first. Replace FRUs if problem persists.
	A-A1E2/ 64				
	A-A2E2				
	A-A1C2/ 32				
	A-A2C2				
	Drive B				
	A-A1E2/ 64				
	A-A2E2				
	A-A1D2/ 32				
	A-A2D2				
1920	Drive A	9500A			Disk Interface Parity Chk
	A-A1C2/ 50				
	A-A2C2				
	F-A1A2  40				
	Drive B				
	A-A1D2/ 50				
	A-A2D2				
	G-A1A2  40				
1921	Drive A	9500A			Card Unsafe.
	F-B1A3  40				

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	F-A1A2	30				
	F-C1A1	15				
	DE	10				
	Drive B					
	G-B1A3	40				
	G-A1A2	30				
	G-C1A1	15				
	DE	10				
-----						
1922	Drive A	9500A				DE Unsafe.
	F-A1A2	40				
	F-B1A3	30				
	A-A1C2/	20				
	A-A2C2					
	F-C1A1	5				
	DE	1				
	Drive B					
	G-A1A2	40				
	G-B1A3	30				
	A-A1D2/	20				
	A-A2D2					
	G-C1A1	5				
	DE	1				
-----						
1923	Drive A	9500A				Operation Unsafe.
	A-A1C2/	40				
	A-A2C2					
	F-A1A2	30				
	F-B1A3	20				
	Drive B					
	A-A1D2/	40				
	A-A2D2					
	G-A1A2	30				
	G-B1A3	20				
-----						
1924	Drive A	9500A				Seek Unsafe.
	F-A1A2	40				
	F-B1A3	30				
	A-A1C2/	20				
	A-A2C2					
	F-C1A1	5				
	DE	1				
	Drive B					
	G-A1A2	40				

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	G-B1A3   30				
	A-A1D2/   20				
	A-A2D2				
	G-C1A1   5				
	DE   1				
1925	Drive A	9500A			Sync Unsafe.
	F-A1A2   50				
	F-C1A1   40				
	Drive B				
	G-A1A2   50				
	G-C1A1   40				
1926	Drive A	9500A			Sync Unsafe.
	F-A1A2   40				
	F-B1A3   30				
	A-A1C2/   20				
	A-A2C2				
	F-C1A1   5				
	DE   1				
	Drive B				
	G-A1A2   40				
	G-B1A3   30				
	A-A1D2/   20				
	A-A2D2				
	G-C1A1   5				
	DE   1				
1927	Drive A	9500A			Servo Unsafe.
	F-B1A3   40				
	F-A1A2   30				
	F-C1A1   15				
	DE   10				
	Drive B				
	G-B1A3   45				
	G-A1A2   30				
	G-C1A1   15				
	DE   10				
1928	Drive A	9500A			Motor/Proc Unsafe.
	F-A1A2   40				
	F-C1A1   30				
	DE   25				
	Drive B				

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	G-A1A2	40				
	G-C1A1	30				
	DE	25				
1929	Drive A	9500A				Interrupt Timeout Check.
	A-A1E2/	50				
	A-A2E2					
	A-A1C2/	40				
	A-A2C2					
	Drive B					
	A-A1E2/	50				
	A-A2E2					
	A-A1D2/	40				
	A-A2D2					
192A	A-A1E2/	90	9500A			Cycle Steal Address Check.
	A-A2E2					
192b	Drive A	9500A				Command Parity Check.
	A-A1E2/	50				
	A-A2E2					
	A-A1C2/	40				
	A-A2C2					
	Drive B					
	A-A1E2/	50				
	A-A2E2					
	A-A1D2/	40				
	A-A2D2					
192C	A-A1E2/	90	9500A			Cycle Steal Parity Check.
	A-A2E2					
192d	A-A1E2/	90	9500A			DSA Buffer Write Check.
	A-A2E2					
192E	Drive A	9500A				Interface Timeout.
	A-A1C2/	50				
	A-A2C2					
	A-A1E2/	40				
	A-A2E2					
	Drive B					
	A-A1D2/	50				
	A-A2D2					
	A-A1E2/	40				

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192F	Drive A	9500A			DSA Data Bus Parity Check.
	A-A1E2/	50			
	A-A2E2				
	A-A1C2/	40			
	A-A2C2				
	Drive B				
	A-A1E2/	50			
	A-A2E2				
	A-A1D2/	40			
	A-A2D2				
1930	Drive A	9500A			Data Overrun Check.
	A-A1C2/	40			
	A-A2C2				
	F-A1A2	30			
	A-A1E2/	20			
	A-A2E2				
	Drive B				
	A-A1D2/	40			
	A-A2D2				
	G-A1A2	30			
	A-A1E2/	20			
	A-A2E2				
1931	Drive A	9500A			CRC/ECC Check.
	A-A1C2/	50			
	A-A2C2				Run 'BUILD' procedure
	F-B1A3	30			first. If problem
	F-C1A1	10			persists, replace FRU.
	DE	1			
	Drive B				
	A-A1D2/	50			
	A-A2D2				
	G-B1A3	30			
	G-C1A1	10			
	DE	1			
1932	Drive A	9500A			No Record Found.
	A-A1C2/	50			
	A-A2C2				Run 'BUILD' procedure
	F-B1A3	30			first. If problem
	F-C1A1	10			persists, replace FRU.

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	DE	1				
	Drive B					
	A-A1D2/	50				
	A-A2D2					
	G-B1A3	30				
	G-C1A1	10				
	DE	1				
1933	Drive A	9500A				Command Cycle Pty Check.
	A-A1C2/	50				
	A-A2C2					
	A-A1E2/	40				
	A-A2E2					
	Drive B					
	A-A1D2/	50				
	A-A2D2					
	A-A1E2/	40				
	A-A2E2					
1934	Drive A	9500A				Cable Continuity Check.
	A-A1C2/	40				
	A-A2C2					
	F-A1A2	30				
	F-B1A2	20				
	Drive B					
	A-A1D2/	40				
	A-A2D2					
	G-A1A2	30				
	G-B1A2	20				
1935	Drive A	9500A				Data Cycle Parity Check.
	A-A1E2/	50				
	A-A2E2					
	A-A1C2/	40				
	A-A2C2					
	Drive B					
	A-A1E2/	50				
	A-A2E2					
	A-A1D2/	40				
	A-A2D2					
1936	Drive A	9500A				Sync Not Found Check.

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197F		9500A				Undetermined error. Run disk MDIs against failing drive to determine.
1990	Drive A	9500A				
	A-A1E2/	48				
	A-A2E2					
	A-A1C2/	48				
	A-A2C2					
	Drive B					
	A-A1E2/	48				
	A-A2E2					
	A-A1D2/	48				
	A-A2D2					
1991	Drive A	9500A				
	A-A1C2/	48				
	A-A2C2					
	F-A1A2	48				
	Drive B					
	A-A1D2/	48				
	A-A2D2					
	G-A1A2	48				
1992	Drive A	9500A				
	F-A1A2	48				
	F-B1A3	48				
	Drive B					
	G-A1A2	48				
	G-B1A3	48				
1993	Drive A	9500A				
	F-A1A2	32				
	F-B1A3	32				
	DE	32				
	Drive B					
	G-A1A2	32				
	G-B1A3	32				
	DE	32				
1994	Drive A	9500A				
	F-A1A2	96				
	Drive B					
	G-A1A2	96				

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1995	Drive A	9500A			
	F-A1A2	50			
	A-A1C2/	26			
	A-A2C2				
	F-B1A3	20			
	Drive B				
	G-A1A2	50			
	A-A1D2/	26			
	A-A2D2				
	G-B1A3	20			
1996	Drive A	9500A			
	F-A1A2	48			
	F-C1A1	48			
	Drive B				
	G-A1A2	48			
	G-C1A1	48			
1997	A-A1E2/	96	9500A		
	A-A2E2				
1998	Drive A	9500A			Run 'BUILD' procedure
	A-A1C2/	40			first. Replace FRU if
	A-A2C2				problem persists.
	Drive B				
	A-A1D2/	40			
	A-A2D2				
1999	Drive A	9500A			Run 'BUILD' procedure
	A-A1E2/	64			first. Replace FRUs
	A-A2E2				if problem persists.
	A-A1C2/	32			
	A-A2C2				
	Drive B				
	A-A1E2/	64			
	A-A2E2				
	A-A1D2/	32			
	A-A2D2				
19A0	Drive A	9500A			Disk Interface Parity
	A-A1C2/	50			Check.
	A-A2C2				
	F-A1A2	40			

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	Drive B				
	A-A1D2/	50			
	A-A2D2				
	G-A1A2	40			
-----					
19A1	Drive A	9500A			Card Unsafe.
	F-B1A3	40			
	F-A1A2	30			
	F-C1A1	15			
	DE	10			
	Drive B				
	G-B1A3	40			
	G-A1A2	30			
	G-C1A1	15			
	DE	10			
-----					
19A2	Drive A	9500A			DE Unsafe.
	F-A1A2	40			
	F-B1A3	30			
	A-A1C2/	20			
	A-A2C2				
	F-C1A1	5			
	DE	1			
	Drive B				
	G-A1A2	40			
	G-B1A3	30			
	A-A1D2/	20			
	A-A2D2				
	G-C1A1	5			
	DE	1			
-----					
19A3	Drive A	9500A			Operation Unsafe.
	A-A1C2/	40			
	A-A2C2				
	F-A1A2	30			
	F-B1A3	20			
	Drive B				
	A-A1D2/	40			
	A-A2D2				
	G-A1A2	30			
	G-B1A3	20			
-----					
19A4	Drive A	9500A			Seek Unsafe.
	F-A1A2	40			

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	F-B1A3	30				
	A-A1C2/	20				
	A-A2C2					
	F-C1A1	5				
	DE	1				
	Drive B					
	G-A1A2	40				
	G-B1A3	30				
	A-A1D2/	20				
	A-A2D2					
	G-C1A1	5				
	DE	1				
-----						
19A5	Drive A	9500A				Sync Unsafe
	F-A1A2	50				
	F-C1A1	40				
	Drive B					
	G-A1A2	50				
	G-C1A1	40				
-----						
19A6	Drive A	9500A				Sync Unsafe.
	F-A1A2	40				
	F-B1A3	30				
	A-A1C2/	20				
	A-A2C2					
	F-C1A1	5				
	DE	1				
	Drive B					
	G-A1A2	40				
	G-B1A3	30				
	A-A1D2/	20				
	A-A2D2					
	G-C1A1	5				
	DE	1				
-----						
19A7	Drive A	9500A				Servo Unsafe.
	F-B1A3	40				
	F-A1A2	30				
	F-C1A1	15				
	DE	10				
	Drive B					
	G-B1A3	45				
	G-A1A2	30				
	G-C1A1	15				

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	DE	10				
19A8	Drive A	9500A				Motor/Proc Unsafe.
	F-A1A2	40				
	F-C1A1	30				
	DE	25				
	Drive B					
	G-A1A2	40				
	G-C1A1	30				
	DE	25				
19A9	Drive A	9500A				Interrupt Timeout Check.
	A-A1E2/	50				
	A-A2E2					
	A-A1C2/	40				
	A-A2C2					
	Drive B					
	A-A1E2/	50				
	A-A2E2					
	A-A1D2/	40				
	A-A2D2					
19AA	A-A1E2/	90	9500A			Cycle Steal Address Check.
	A-A2E2					
19Ab	Drive A	9500A				Command Parity Check.
	A-A1E2/	50				
	A-A2E2					
	A-A1C2/	40				
	A-A2C2					
	Drive B					
	A-A1E2/	50				
	A-A2E2					
	A-A1D2/	40				
	A-A2D2					
19AC	A-A1E2/	90	9500A			Cycle Steal Parity Check.
	A-A2E2					
19Ad	A-A1E2/	90	9500A			DSA Buffer Write Check.
	A-A2E2					
19AE	Drive A	9500A				Interface Timeout.
	A-A1C2/	50				

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	A-A2C2				
	A-A1E2/	40			
	A-A2E2				
	Drive B				
	A-A1D2/	50			
	A-A2D2				
	A-A1E2/	40			
	A-A2E2				
-----					
19AF	Drive A	9500A			DSA Data Bus Parity Check.
	A-A1E2/	50			
	A-A2E2				
	A-A1C2/	40			
	A-A2C2				
	Drive B				
	A-A1E2/	50			
	A-A2E2				
	A-A1D2/	40			
	A-A2D2				
-----					
19b0	Drive A	9500A			Data Overrun Check.
	A-A1C2/	40			
	A-A2C2				
	F-A1A2	30			
	A-A1E2/	20			
	A-A2E2				
	Drive B				
	A-A1D2/	40			
	A-A2D2				
	G-A1A2	30			
	A-A1E2/	20			
	A-A2E2				
-----					
19b1	Drive A	9500A			CRC/ECC Check.
	A-A1C2/	50			
	A-A2C2				Run 'BUILD' procedure
	F-B1A3	30			first. If problem
	F-C1A1	10			persists, replace FRU.
	DE	1			
	Drive B				
	A-A1D2/	50			
	A-A2D2				
	G-B1A3	30			
	G-C1A1	10			

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	DE	1				
19b2	Drive A	9500A				No Record Found.
	A-A1C2/	50				
	A-A2C2					Run 'BUILD' procedure
	F-B1A3	30				first. If problem
	F-C1A1	10				persists, replace FRU.
	DE	1				
	Drive B					
	A-A1D2/	50				
	A-A2D2					
	G-B1A3	30				
	G-C1A1	10				
	DE	1				
19b3	Drive A	9500A				Command Cycle Parity
	A-A1C2/	50				Check.
	A-A2C2					
	A-A1E2/	40				
	A-A2E2					
	Drive B					
	A-A1D2/	50				
	A-A2D2					
	A-A1E2/	40				
	A-A2E2					
19b4	Drive A	9500A				Cable Continuity Check.
	A-A1C2/	40				
	A-A2C2					
	F-A1A2	30				
	F-B1A2	20				
	Drive B					
	A-A1D2/	40				
	A-A2D2					
	G-A1A2	30				
	G-B1A2	20				
19b5	Drive A	9500A				Data Cycle Parity Check.
	A-A1E2/	50				
	A-A2E2					
	A-A1C2/	40				
	A-A2C2					
	Drive B					
	A-A1E2/	50				

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	A-A2E2					
	A-A1D2/	40				
	A-A2D2					
19b6	Drive A	9500A				Sync Not Found Check.
	A-A1C2/	40				
	A-A2C2					Run 'BUILD' procedure
	Drive B					first. If problem
	A-A1D2/	40				persists, replace FRU.
	A-A2D2	40				
19b7	Drive A	9500A				Disk Write Data Check.
	A-A1C2/	40				
	A-A2C2					
	F-A1A2	30				
	F-B1A3	20				
	Drive B					
	A-A1D2/	40				
	A-A2D2					
	G-A1A2	30				
	G-B1A3	20				
19b8	Drive A	9500A				Command Reject.
	A-A1C2/	50				
	A-A2C2					
	A-A1E2/	40				
	A-A2E2					
	Drive B					
	A-A1D2/	50				
	A-A2D2					
	A-A1E2/	40				
	A-A2E2					
19b9	Drive A	9500A				Data Cycle Underrun Check.
	F-A1A2	50				
	F-B1A3	40				
	Drive B					
	G-A1A2	50				
	G-B1A3	40				
19bA	Drive A	9500A				
	A-A1C2/	50				
	A-A2C2					
	F-A1A2	40				

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	Drive B					
	A-A1D2/	50				
	A-A2D2					
	G-A1A2	40				
19FF			9500A			Undetermined error. Run disk MDIs against failing drive to determine.

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MAP 0113-131

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ENTRY POINTS

```

-----
FROM   | ENTER THIS MAP
-----+-----
MAP    | ENTRY  PAGE  STEP
NUMBER | POINT  NUMBER NUMBER
-----+-----
0101  |  A     1     001
0199  |  A     1     001

```

001  
(Entry Point A)

MAP DESCRIPTION:

This MAP contains the system reference codes 1A00 through 1AFF. Any code which is not listed in MAP 0113, MAP 0114, MAP 0115, MAP 0116 or MAP 0118 is not a valid reference code.

START CONDITIONS:

A failure has occurred and has resulted in a 4 character code being logged or displayed. Each code represents a condition of failure.  
- Use the MAP reference to isolate to the failing FRU or FRU group.

Multiple Unit:

- If a SRC points to two or more units (such as Drive A, Drive B), use ERAP to determine the failing unit.

Reference Code Index for MAP 0114

```

-----
SRC      Device or Function      Device
-----  -----              MAP Entry
-----  -----              -----
1Axx    10SR Disk                  9700,A

```



System Reference Codes

MAP 0114-2

5360 Systems Unit

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\*\*\*\*\* 10SR Disk - 1Axx \*\*\*\*\*

1A01	A-A2E2	70	0105A	90-210	DSA-1 or Channel error.
	Channel	20		10-100	
	A-A2J2	5			
1A02	A-A2C2	60	9700A	90-210	Run MDIs against Drive A.
	A-A2E2	30		97-200	DSA-1/Adapter (Dr A) error
1A03	A-A2D2	60	9700A	90-210	Run MDIs against Drive B.
	A-A2E2	30		97-200	DSA-1/Adapter (Dr B) error
1A04	A-A2C4	60	9700A	90-210	Run MDIs against Drive C.
	A-A2E2	30		97-200	DSA-1/Adapter (Dr C) error
1A05	A-A2D4	60	9700A	90-210	Run MDIs against Drive D.
	A-A2E2	30		97-200	DSA-1/Adapter (Dr D) error
1A06	A-A2E2	40	0105A	90-210	DSA-1 or Channel error.
	Channel	40		10-100	
	A-A2J2	1			
1A08			9700A		Go to MAP 9700, A.
					Invalid Disk interrupt
					caused error.
1A0A	A-A2C2		9700A	97-200	Run MDIs against Drive A.
	Disk A			97-215	Adapter/10SR CSA error
1A0b	A-A2D2		9700A	97-200	Run MDIs against Drive B.
	Disk B			97-215	Adapter/10SR CSA error
1A0C	A-A2C4		9700A	97-200	Run MDIs against Drive C.
	Disk C			97-215	Adapter/10SR CSA error
1A0d	A-A2D4		9700A	97-200	Run MDIs against Drive D.
	Disk D			97-215	Adapter/10SR CSA error
1A0E			9700A		Permanent ECC check,
					sector reassigned to new
					sector.
					Customer may need to run
					'BUILD' Utility.
1A10	A-A2E2	57	9700A	90-210	Permanent error occurred.

System Reference Codes

MAP 0114-3

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	Channel	42		10-100	
	A-A2J2	1			
-----					
1A11	A-A2E2	59	9700A	90-210	Permanent error occurred.
	Channel	38		10-100	
	A-A2C2/	1		97-200	Fault may be in Drive A,
	A-A2D2/				B, C, or D (if installed)
	A-A2C4/				Run ERAP to determine
	A-A2D4				failing location.
	A-A2J2	1			
-----					
1A13	A-A2E2	59	9700A	10-100	Permanent error occurred.
	A-A2C2/	38		97-200	Fault may be in Drive A,
	A-A2D2/			90-210	B, C, or D (if installed)
	A-A2C4/				Run ERAP to determine
	A-A2D4				failing location.
	Channel	1			
	A-A2J2	1			
	F-A1B2	1			
-----					
1A14	A-A2E2	56	9700A	97-200	Permanent error occurred.
	A-A2C2/	39		10-100	Fault may be in Drive A,
	A-A2D2/			90-210	B, C, or D (if installed)
	A-A2C4/			97-215	Run ERAP to determine
	A-A2D4				failing location.
	Channel	1			
	A-A2J2	1			
	F-A1C2	1			
	F-A1A3	1			
-----					
1A15	A-A2E2	48	9700A	97-200	Permanent error was one of
	A-A2C2/	42		90-210	the following:
	A-A2D2/				* Cycle Steal Address Ck
	A-A2C4/				* Command Cycle Parity Ck
	A-A2D4				* Command Parity Check
	A-A2J2	10			* Cycle Steal Parity Ck
					* DSA Buffer Write Check
					* Interface Time-out
					* DSA Data Bus Parity Ck
					* Data Cycle Underrun Ck
					* Data Cycle Overrun Ck
					Fault may be in Drive A,
					B, C, or D (if installed)
					Run ERAP to determine

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					failing location. (See MIM 97-508)
1A16	F-A1B2 A-A2C2/ A-A2D2/ A-A2C4/ A-A2D4 F-A1A4 F-A1A5 F-A1C2 F-A1A3 A-A2E2	34 22    16 16 5 4 1	9700A	97-200 90-210 97-215	Permanent error was one of the following: * Disk Interrupt Check * Data Overrun Check * Command Error * Command Reject * Device Busy * Disk Not Ready * Cable Continuity Error * Disk Access Time-out * No Control Sample Rcvd * Disk Sense Parity Check * Servo Interrupt - Guard band 2 Fault may be in Drive A, B, C, or D (if installed) Run ERAP to determine failing location. (See MIM 97-508/97-518)
1A17	F-A1C2 A-A2C2/ A-A2D2/ A-A2C4/ A-A2D4 F-A1A3 F-A1B2 F-A1D2	46 21    20 12 1	9700A	97-200 97-215	Permanent error was one of the following: * Data Unsafe - Write and servo off track - Write active and not in data field - Write and read both active - Write active and AE select error - Write active and AE Unsafe Fault may be in Drive A, B, C, or D (if installed) Run ERAP to determine failing location.
1A19	F-A1B2 F-A1C2 F-A1D2	30 27 5	9700A	97-215 97-200 97-235	Permanent error detected was: * Unseated card or cable

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	F-A1E2	5		90-210	
	F-A1E5	5			Corrective Action:
	F-W1B1	5			Reseat all 10SR CSA cards
	F-HDA	5			and cables.
	A-A2C2/	1			
	A-A2D2/				Fault may be in Drive A,
	A-A2C4/				B, C, or D (if installed).
	A-A2D4				Run ERAP to determine
	A-A2E2	1			failing location.
1A1A	F-A1C2	43	9700A	97-235	Permanent error was one of
	F-A1B2	42		97-215	the following:
	F-A1D2	1			* Data Unsafe
	F-A1E2	1			- Write and not ready
	F-A1E5	1			both active
	F-W1B1	1			- Write not active and
	F-HDA	1			AE unsafe with an
					AE selected
					* Servo Interrupt
					- (Not) Power Good
					- Disk speed / VCO check
					Fault may be in Drive A,
					B, C, or D (if installed).
					Run ERAP to determine
					failing location.
					(See MIM 97-518)
1A1b	F-A1D2	34	9700A	97-235	Permanent error was one of
	F-A1B2	28		97-215	the following:
	F-A1C2	26			* Sector Check
	F-W1B1	1			* Disk Write Data Check
	F-A1E5	1			* Servo Interrupt
	F-HDA	1			- PLO out of sync
	F-VCM	1			- Seek time-out
					- Servo off track
					- Unexpected guard band
					Fault may be in Drive A,
					B, C, or D (if installed).
					Run ERAP to determine
					failing location.
					(See MIM 97-508/97-518)
1A1C	F-A1C2	45	9700A	97-235	Permanent error was one of
	F-HDA	16		97-215	the following:

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	F-A1E2	15				* Disk Format Check
	F-A1A3	12				* Data Unsafe
	A-A2C2/	1				- AE unsafe without an AE selected
	A-A2D2/					Fault may be in Drive A, B, C, or D (if installed).
	A-A2C4/					Run ERAP to determine failing location.
	A-A2D4					(See MIM 97-508/97-518)
	F-A1B2	1				
	F-W1B1	1				
-----						
1A1F	Media	30	9700A		97-235	Permanent error was one of the following:
	F-A1C2	20			97-215	* No Record Found Check
	F-A1B2	10				* Sync Not Found Check
	F-HDA	1				* CRC/ECC Check
	F-A1E2	1				Corrective Action:
	F-W1B1	1				Run Analysis (MIM 01-730) to check for bad sector ID or bad data written on the HDA.
	A-A2C2/	1				Fault may be in Drive A, B, C, or D (if installed).
	A-A2D2/					Run ERAP to determine failing location.
	A-A2C4/					(See MIM 97-508)
	A-A2D4					
	F-A1D2	1				
	F-A1A3	1				
-----						
1A20	A-A2E2	56	9700A		90-210	Permanent error occurred.
	A-A2C2/	43			97-200	Fault may be in Drive A, B, C, or D (if installed).
	A-A2D2/					Run ERAP to determine failing location.
	A-A2C4/					
	A-A2D4					
-----						
1A21	A-A2E2	99	9700A		90-210	Permanent error occurred.
-----						
1A22	A-A2E2	49	9700A		90-210	Permanent error occurred.
	A-A2C2/	37			97-200	Fault may be in Drive A, B, C, or D (if installed).
	A-A2D2/				97-215	Run ERAP to determine failing location.
	A-A2C4/					
	A-A2D4					
	F-A1B2	10				
	F-A1A3	1				
-----						
1A24	Drive A		9700A			Permanent error occurred.
	A-A2E2	60			90-210	

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	A-A2C2/	32		97-200	
	A-A2D2/			97-215	Fault may be in Drive A,
	A-A2C4/			10-100	B, C, or D (if installed).
	A-A2D4				Run ERAP to determine
	F-A1C2	1			failing location.
	F-A1A3	1			
	Channel	1			
1A25	A-A2E2	48	9700A	90-210	Permanent error was one of
	A-A2C2/	42		97-200	the following:
	A-A2D2/				* Cycle Steal Address Ck
	A-A2C4/				* Command Parity Ck
	A-A2D4				* Cycle Steal Parity Ck
	A-A2J2	10			* DSA Buffer Write Check
					* Interface Time-out
					* DSA Data Bus Parity Ck
					* Data Cycle Underrun Ck
					* Data Cycle Overrun Ck
					* Command Cycle Parity Ck
					Fault may be in Drive A,
					B, C, or D (if installed).
					Run ERAP to determine
					failing location.
					(See MIM 97-508)
1A26	F-A1B2	34	9700A	97-200	Permanent error was one of
	A-A2C2/	22		90-210	the following:
	A-A2D2/				* Disk Not Ready
	A-A2C4/				* Cable Continuity Error
	A-A2D4				* Disk Access Time-out
	F-A1A4	16			* Data Overrun Check
	F-A1A5	16			* Command Error
	F-A1C2	5			* Command Reject
	F-A1A3	4			* Device Busy
	A-A2E2	1			* No Control Sample Rcvd
					* Disk Sense Parity Check
					* Disk Interrupt Check
					* Servo Interrupt
					- Guard band 2
					Fault may be in Drive A,
					B, C, or D (if installed).
					Run ERAP to determine
					failing location.
					(See MIM 97-508/97-518)

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1A27	F-A1C2 A-A2C2/ A-A2D2/ A-A2C4/ A-A2D4 F-A1A3 F-A1B2 F-A1D2	46 21    21 12 1	9700A	97-200 97-215	Permanent error was one of the following: * Data Unsafe - Write and servo off track - Write active and not in data field - Write and read both active - Write active and AE select error - Write active and AE Unsafe Fault may be in Drive A, B, C, or D (if installed). Run ERAP to determine failing location. (See MIM 97-518)
1A29	F-A1B2 F-A1C2 F-A1D2 F-A1E2 F-A1E5 F-W1B1 F-HDA A-A2C2/ A-A2D2/ A-A2C4/ A-A2D4 A-A2E2	30 27 5 5 5 5 5 1    1	9700A	97-200 97-235 90-210 97-215	Permanent error occurred. Error detected was: * Unseated card or cable  Corrective Action: Reseat all 10SR CSA cards and cables.  Fault may be in Drive A, B, C, or D (if installed). Run ERAP to determine failing location.
1A2A	F-A1C2 F-A1B2 F-A1D2 F-A1E2 F-A1E5 F-W1B1 F-HDA	43 42 1 1 1 1 1	9700A	97-235 97-215	Permanent error was one of the following: * Data Unsafe - Write and not ready both active - Write not active and AE unsafe with an AE selected * Servo Interrupt - (Not) Power Good - Disk speed / VCO check

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						Fault may be in Drive A,   B, C, or D (if installed).   Run ERAP to determine   failing location.   (See MIM 97-518)
1A2b	F-A1D2	34	9700A		97-235	Permanent error was one of   the following:   * Sector Check   * Disk Write Data Check   * Servo Interrupt   - Servo off track   - Unexpected guard band   - Seek time-out   Fault may be in Drive A,   B, C, or D (if installed).   Run ERAP to determine   failing location.   (See MIM 97-508/97-518)
	F-A1B2	28			97-215	
	F-A1C2	26				
	F-W1B1	1				
	F-A1E5	1				
	F-HDA	1				
	F-VCM	1				
1A2C	F-A1C2	45	9700A		97-235	Permanent error was one of   the following:   * Disk Format Check   * Data Unsafe   - AE unsafe without       an AE selected   Fault may be in Drive A,   B, C, or D (if installed).   Run ERAP to determine   failing location.   (See MIM 97-508/97-518)
	F-HDA	16			97-215	
	F-A1E2	15				
	F-A1A3	12				
	A-A2C2/	1				
	A-A2D2/					
	A-A2C4/					
	A-A2D4					
	F-A1B2	1				
	F-W1B1	1				
1A2F	Media	30	9700A		97-235	Permanent error was one of   the following:   * Sync Not Found Check   * CRC/ECC Check   * No Record Found Check   Corrective Action:   Run Analysis (MIM 01-730)   to check for bad sector ID   or bad data written on the   HDA.   Fault may be in Drive A,   B, C, or D (if installed).
	F-A1C2	20			97-215	
	F-A1B2	10				
	F-HDA	1				
	F-A1E2	1				
	F-W1B1	1				
	A-A2C2/	1				
	A-A2D2/					
	A-A2C4/					
	A-A2D4					
	F-A1D2	1				
	F-A1A3	1				

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	F-A1A3	1				Run ERAP to determine failing location. (See MIM 97-508)
1A30	F-A1B2	33	9700A	97-215	97-200	Permanent error occurred. * Cable continuity Check Fault may be in Drive A, B, C, or D (if installed). Run ERAP to determine failing location. Corrective Action: Reseat cards and cables.
	A-A2C2/	33				
	A-A2D2/					
	A-A2C4/					
	A-A2D4					
	F-A1A3	27				
	F-A1A4	1				
	F-A1A5	1				
1A32	A-A2C2/	43	9700A	97-200		Permanent error occurred.  Fault may be in Drive A, B, C, or D (if installed). Run ERAP to determine failing location.
	A-A2D2/					
	A-A2C4/					
	A-A2D4					
	F-A1B2	28		97-215		
	F-A1A4	22				
	F-A1A5	1				
	F-A1A3	1				
1A34	F-A1C2	57	9700A	97-215	97-200	Permanent error occurred.  Fault may be in Drive A, B, C, or D (if installed). Run ERAP to determine failing location.
	A-A2C2/	29				
	A-A2D2/					
	A-A2C4/					
	A-A2D4					
	F-A1A3	27				
	F-A1A5	1				
	F-A1A3	1				
1A3A	F-A1B2	41	9700A	97-215	97-200	Permanent error occurred.  Fault may be in Drive A, B, C, or D (if installed). Run ERAP to determine failing location.
	A-A2C2/	28				
	A-A2D2/					
	A-A2C4/					
	A-A2D4					
	F-A1A4	11		90-210		
	F-A1A5	9				
	F-A1A3	1				See MAP 9700,A.
	A-A2E2	1				
	F-A1C2	1				
1A3b	F-A1B2	61	9700A	97-215		Permanent error occurred.
	F-A1C2	24		97-200		

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	F-A1D2	6		90-210	Fault may be in Drive A, B, C, or D (if installed). Run ERAP to determine failing location.
	A-A2C2/	1			
	A-A2D2/				
	A-A2C4/				
	A-A2D4				
	A-A2E2	1			
	F-A1A5	1			
	F-A1A4	1			
-----					
1A3C	F-A1B2	37	9700A	97-215	Permanent error occurred.
	A-A2C2/	25		97-200	Fault may be in Drive A, B, C, or D (if installed). Run ERAP to determine failing location.
	A-A2D2/				
	A-A2C4/				
	A-A2D4				
	F-A1A3	14			
	F-A1A4	11			
	F-A1A5	10			
	F-A1C2	1			
-----					
1A3d	F-A1B2	64	9700A	97-215	Permanent error occurred.
	A-A2C2/	13		97-200	Fault may be in Drive A, B, C, or D (if installed). Run ERAP to determine failing location.
	A-A2D2/				
	A-A2C4/				
	A-A2D4				
	F-A1C2	11			
	F-A1A5	1			
	F-A1A4	1			
	F-A1A3	1			
-----					
1A3E	F-A1B2	46	9700A	97-215	Permanent error occurred.
	A-A2C2/	16		97-200	Fault may be in Drive A, B, C, or D (if installed). Run ERAP to determine failing location.
	A-A2D2/				
	A-A2C4/				
	A-A2D4				
	F-A1C2	15		90-210	
	A-A2E2	7		10-100	
	F-A1A4	1			
	F-A1A3	1			
	F-A1A5	1			
	F-A1D2	1			
	Channel	1			
-----					
1A40	F-A1B2	50	9700A	97-215	Permanent error occurred.
	F-A1C2	1		97-235	* Unseated card or cbl Ck

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	F-A1D2	1							Fault may be in Drive A, B, C, or D (if installed). Run ERAP to determine failing location. Corrective Action: reseat cards and cables.
	F-A1E2	1							
	F-A1E5	1							
	F-HDA	1							
	F-W1B1	1							
1A41	F-A1B2	98	9700A			97-215			Permanent error occurred. Fault may be in Drive A, B, C, or D (if installed). Run ERAP to determine failing location.
	F-A1E2	1							
1A42	F-A1B2	66	9700A			97-215			Permanent error occurred. Fault may be in Drive A, B, C, or D (if installed). Run ERAP to determine failing location.
	F-A1A3	33							
1A43	F-A1C2	98	9700A			97-215			Permanent error occurred. Fault may be in Drive A, B, C, or D (if installed). Run ERAP to determine failing location.
1A45	F-A1B2	82	9700A			97-215			Permanent error occurred. Fault may be in Drive A, B, C, or D (if installed). Run ERAP to determine failing location.
	F-A1C2	17							
1A46	F-A1C2	60	9700A			97-215			Permanent error occurred. Fault may be in Drive A, B, C, or D (if installed). Run ERAP to determine failing location.
	F-A1B2	35							
	F-A1A3	1							
1A47	F-A1B2	64	9700A			97-215			Permanent error occurred. Fault may be in Drive A, B, C, or D (if installed). Run ERAP to determine failing location.
	F-A1C2	35							
	F-A1A3	1							
1A48	F-A1C2	70	9700A			97-215			Permanent error occurred.

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	F-A1B2	35				Fault may be in Drive A, B, C, or D (if installed). Run ERAP to determine failing location.
1A4A	F-A1C2	71				Permanent error occurred.
	F-W1B1	18	9700A		97-215	Fault may be in Drive A, B, C, or D (if installed).
	F-A1E2	10			97-235	Run ERAP to determine failing location.
1A4b	F-A1C2	44	9700A		97-215	Permanent error occurred.
	F-W1B1	35			97-235	Fault may be in Drive A, B, C, or D (if installed).
	F-A1E2	20				Run ERAP to determine failing location.
	F-A1B1	1				
1A50	F-A1D2	98	9700A		97-215	Permanent error occurred. Fault may be in Drive A, B, C, or D (if installed). Run ERAP to determine failing location.
1A52	F-A1B2	50	9700A		97-215	Permanent error occurred. Fault may be in Drive A, B, C, or D (if installed). Run ERAP to determine failing location.
	F-A1A3	27				
	F-A1D2	22				
1A54	F-A1B2	67	9700A		97-215	Permanent error occurred. Fault may be in Drive A, B, C, or D (if installed). Run ERAP to determine failing location.
	F-A1C2	25				
	F-A1D2	7				
1A55	F-A1D2	87	9700A		97-215	Permanent error occurred. Fault may be in Drive A, B, C, or D (if installed). Run ERAP to determine failing location.
	F-A1C2	12				
1A58	F-A1D2	71	9700A		97-215	Permanent error occurred. Fault may be in Drive A, B, C, or D (if installed).
	F-A1C2	12				
	F-A1B2	10				

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	F-VCM	1				Run ERAP to determine failing location.
1A5A	F-A1D2	60	9700A	97-215		Permanent error occurred.
	F-A1C2	27		97-200		
	A-A2C2/	1				Fault may be in Drive A, B, C, or D (if installed).
	A-A2D2/					Run ERAP to determine failing location.
	A-A2C4/					
	A-A2D4					
	F-A1A3	1				
1A5C	F-A1D2	49	9700A	97-215		Permanent error occurred.
	F-A1E5	26				Fault may be in Drive A, B, C, or D (if installed).
	F-HDA	14				Run ERAP to determine failing location.
	Media	10				Corrective Action: Run Analysis (MIM 01-730) to check for bad sector ID or bad data written on HDA
1A60	F-A1B2	48	9700A	97-215		Permanent error occurred.
	F-A1C2	24		97-200		
	F-A1D2	15				Fault may be in Drive A, B, C, or D (if installed).
	A-A2C2/	1				Run ERAP to determine failing location.
	A-A2D2/					
	A-A2C4/					
	A-A2D4					
	F-VCM	1				
	F-A1E5	1				
	F-A1A5	1				
	F-A1A4	1				
	F-A1A3	1				
	F-HDA	1				
	F-A1E2	1				
1A61	F-A1B2	54	9700A	97-215		Permanent error occurred.
	F-A1C2	23				
	F-A1D2	19				Fault may be in Drive A, B, C, or D (if installed).
	F-VCM	1				Run ERAP to determine failing location.
	F-A1E5	1				
1A63	F-A1C2	39	9700A	97-215		Permanent error occurred.

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	F-A1B2	33				Fault may be in Drive A, B, C, or D (if installed).
	F-A1D2	1				Run ERAP to determine failing location.
	F-A1E5	1				
	F-HDA	1				
1A64	F-A1C2	48	9700A		97-215	Permanent error occurred.
	F-A1D2	25				Fault may be in Drive A, B, C, or D (if installed).
	F-A1E5	13				Run ERAP to determine failing location.
	F-HDA	12				
1A65	F-A1C2	45	9700A		97-215	Permanent error occurred.
	F-A1B2	25				Fault may be in Drive A, B, C, or D (if installed).
	F-A1E2	15				Run ERAP to determine failing location.
	F-HDA	12				
1A67	F-A1D2	31	9700A		97-215	Permanent error occurred.
	F-A1C2	27			97-200	Fault may be in Drive A, B, C, or D (if installed).
	F-A1B2	13			97-235	Run ERAP to determine failing location.
	F-W1B1	10				
	F-A1E2	1				
	F-HDA	1				
	F-VCM	1				
	A-A2C2/	1				
	A-A2D2/					
	A-A2C4/					
	A-A2D4					
	F-A1A3	1				
1A68	F-A1D2	44	9700A		97-215	Permanent error occurred.
	F-A1B2	31				Fault may be in Drive A, B, C, or D (if installed).
	F-A1C2	18				Run ERAP to determine failing location.
	F-VCM	1				
	F-A1E5	1				
	F-HDA	1				
1A69	F-A1D2	45	9700A		97-215	Permanent error occurred.
	F-A1B2	27				Fault may be in Drive A, B, C, or D (if installed).
	F-A1C2	21				Run ERAP to determine failing location.
	F-VCM	1			97-225	
	F-A1E5	1			97-230	Corrective Action:
	F-HDA	1				Reset power distribution
	Pwr cb1	1				

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					cables to 10SR. Check 'Power Good' (FLD GA915)
1A6A	F-A1C2	30	9700A	97-215	Permanent error occurred. Fault may be in Drive A, B, C, or D (if installed). Run ERAP to determine failing location.
	F-A1B2	33		97-200	
	F-W1B1	8		97-235	
	F-HDA	7			
	F-A1E2	1			
	A-A2C2/	1			
	A-A2D2/				
	A-A2C4/				
	A-A2D4				
	F-A1A3	1			
	F-A1D2	1			
	F-A1E5	1			
	F-A1A5	1			
	F-A1A4	1			
1A6b	F-A1B2	57	9700A	97-215	Permanent error occurred. Fault may be in Drive A, B, C, or D (if installed). Run ERAP to determine failing location. Corrective Action: Reseat power distribution cables to 10SR. Check 'Power Good' (FLD GA915)
	F-A1C2	18		97-235	
	F-A1E2	1			
	F-A1D2	1		97-225	
	F-W1B1	1		97-230	
	Pwr cb1	1			
	F-A1E5	1			
	F-HDA	1			
1A6C	F-A1B2	32	9700A	97-215	Permanent error occurred. Fault may be in Drive A, B, C, or D (if installed). Run ERAP to determine failing location.
	F-A1C2	24		97-200	
	F-A1D2	23		97-235	
	F-A1E2	1			
	F-VCM	1			
	F-A1E5	1			
	A-A2D2	1			
	F-HDA	1			
	F-W1B1	1			
	F-A1A5	1			
	F-A1A3	1			
	F-A1A4	1			
1A6d	F-A1C2	36	9700A	97-215	Permanent error occurred. Fault may be in Drive A, B, C, or D (if installed).
	F-HDA	12		97-200	
	F-W1B1	9		97-235	

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	A-A2C2/	1				Run ERAP to determine
	A-A2D2/					failing location.
	A-A2C4/					
	A-A2D4					
	F-A1A3	1				
	F-A1D2	1				
	F-A1E5	1				
	F-A1E2	1				
-----						
1A6F	F-W1B1	34	9700A		97-235	Permanent error occurred.
	F-A1C2	27			97-215	Fault may be in Drive A,
	F-HDA	13			97-200	B, C, or D (if installed).
	F-A1E2	10				Run ERAP to determine
	F-A1D2	1				failing location.
	A-A2C2/	1				
	A-A2D2/					
	A-A2C4/					
	A-A2D4					
	F-A1B2	1				
	F-A1E5	1				
	F-A1A3	1				
-----						
1A70	F-A1B2	27	9700A		97-215	Permanent error occurred.
	F-A1D2	19			97-200	Fault may be in Drive A,
	A-A2C2/	18			90-210	B, C, or D (if installed),
	A-A2D2/					Run ERAP to determine
	A-A2C4/					failing location.
	A-A2D4					Corrective Action:
	A-A2E2	14			10-100	Reseat cards and cables.
	F-A1C2	10				Run Analysis (MIM 01-730)
	F-A1A4	1				to check for bad sector ID
	F-A1A5	1				or bad data written to HDA
	F-A1A3	1				
	F-VCM	1				
	F-A1E5	1				
	Channel	1				
	A-A2J2	1				
	F-HDA	1				
	Media	1				
-----						
1A71	F-A1C2	34	9700A		97-215	Permanent error occurred.
	A-A2C2/	16			97-200	Fault may be in Drive A,
	A-A2D2/					B, C, or D (if installed),
	A-A2C4/					Run ERAP to determine

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	A-A2D4				failing location.
	F-A1B2	16		90-210	
	A-A2E2	8		10-100	Corrective Action:
	F-W1B1	1		97-235	reseat cards and cables.
	F-A1D2	1			Run Analysis (MIM 01-730)
	F-A1A5	1			to check for bad sector ID
	F-HDA	1			or bad data written on HDA
	F-A1A3	1			
	F-A1A4	1			
	F-A1A5	1			
	F-A1E5	1			
	Channel	1			
	A-A2J2	1			
	Media	1			
-----					
1A72	F-A1C2	38	9700A	97-215	Permanent error occurred.
	F-A1B2	17		97-200	Fault may be in Drive A,
	F-HDA	11		97-235	B, C, or D (if installed),
	F-A1E2	10		90-210	Run ERAP to determine
	F-W1B1	1			failing location.
	A-A2C2	1			
	F-A1A3	1			Corrective Action:
	F-A1D2	1			reseat cards and cables.
	A-A2E2	1			Run Analysis (MIM 01-730)
	F-A155	1			to check for bad sector ID
	F-A1A5	1			or bad data written on HDA
	F-A1A4	1			
	Media	1			
-----					
1A73	F-A1C2	28	9700A	97-215	Permanent error occurred.
	F-A1B2	24		97-200	Fault may be in Drive A,
	A-A2C2/	16		90-210	B, C, or D (if installed).
	A-A2D2/			97-235	Run ERAP to determine
	A-A2C4/				failing location.
	A-A2D4				
	A-A2E2	7			Corrective Action:
	F-A1D2	7			reseat cards and cables.
	F-A1A3	1			Run Analysis (MIM 01-730)
	F-A1A4	1			to check for bad sector ID
	F-A1A5	1			or bad data written on HDA
	F-HDA	1			
	F-W1B1	1			
	F-A1E2	1			
	F-VCM	1			

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	F-A1E5	1				
	Media	1				
1A7F				97-110		Go to MAP 9700, A. Permanent error occurred. Unable to determine FRU. Attempt to recreate error, or use other SRC codes.
				90-110		
1A90	A-A2E2	57	9700A	90-210		Temporary error occurred.
	Channel	42		10-100		
	A-A2J2	1				
1A91	A-A2E2	59	9700A	10-100		Temporary error occurred.
	Channel	38		97-200		Fault may be in Drive A, B, C, or D (if installed).
	A-A2C2/	1		90-210		Run ERAP to determine failing location.
	A-A2D2/					
	A-A2C4/					
	A-A2D4					
	A-A2J2	1				
1A93	A-A2E2	59	9700A	10-100		Temporary error occurred.
	A-A2C2/	38		97-200		Fault may be in Drive A, B, C, or D (if installed).
	A-A2D2/			90-210		Run ERAP to determine failing location.
	A-A2C4/					
	A-A2D4					
	Channel	1				
	A-A2J2	1				
1A94	A-A2E2	56	9700A	97-200		Temporary error occurred.
	A-A2C2/	39		10-100		Fault may be in Drive A, B, C, or D (if installed).
	A-A2D2/					Run ERAP to determine failing location.
	A-A2C4/					
	A-A2D4					
	Channel	1		97-215		
	A-A2J2	1		90-210		
	F-A1C2	1				
	F-A1A3	1				
1A95	A-A2E2	48	9700A	97-200		Temporary error was one of the following:
	A-A2C2/	42		90-210		* Cycle Steal Address Ck
	A-A2D2/			97-215		* Command Parity Ck
	A-A2C4/					* Cycle Steal Parity Ck
	A-A2D4					

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	A-A2J2	10				<ul style="list-style-type: none"> <li>* DSA Buffer Write Ck</li> <li>* Interface Time-out</li> <li>* DSA Data Bus Parity Ck</li> <li>* Data Cycle Underrun Ck</li> <li>* Data Cycle Overrun Ck</li> <li>* Command Cycle Parity Ck</li> </ul> Fault may be in Drive A, B, C, or D (if installed). Run ERAP to determine failing location. (See MIM 97-508)
1A96	F-A1B2	34	9700A	97-200		Temporary error was one of the following: <ul style="list-style-type: none"> <li>* Data Overrun Check</li> <li>* Command Error</li> <li>* Command Reject</li> <li>* Device Busy</li> <li>* Disk Not Ready</li> <li>* Cable Continuity Error</li> <li>* Disk Access Time-out</li> <li>* No Control Sample Rcvd</li> <li>* Disk Sense Parity Ck</li> <li>* Disk Interrupt Check</li> <li>* Servo Interrupt</li> <li>- Guard Band 2</li> </ul> Fault may be in Drive A, B, C, or D (if installed). Run ERAP to determine failing location. (See MIM 97-508/97-518)
	A-A2C2/	22		90-210		
	A-A2D2/			97-215		
	A-A2C4/					
	A-A2D4					
	F-A1A4	16				
	F-A1A5	16				
	F-A1C2	5				
	F-A1A3	4				
	A-A2E2	1				
1A97	F-A1C2	46	9700A	97-200		Temporary error was one of the following: <ul style="list-style-type: none"> <li>* Data Unsafe</li> <li>- Write &amp; Servo off track</li> <li>- Write active &amp; not in Data field</li> <li>- Write &amp; Read both actv</li> <li>- Write actv &amp; Select Err</li> <li>- Write actv &amp; AE Unsafe</li> </ul> Fault may be in Drive A, B, C, or D (if installed). Run ERAP to determine
	A-A2C2/	21		97-215		
	A-A2D2/					
	A-A2C4/					
	A-A2D4					
	F-A1A3	21				
	F-A1B2	12				
	F-A1D2	1				

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					failing location. (See MIM 97-518)
1A99	F-A1B2	30		97-200	Temporary error was: * Unseated card or cable  Fault may be in Drive A, B, C, or D (if installed) Run ERAP to determine failing location.  Corrective Action: Reseat all 10SR cards and cables. (See MIM 97-518)
	F-A1C2	27		97-235	
	F-A1D2	5		90-210	
	F-A1E2	5		97-215	
	F-A1E5	5			
	F-W1B1	5			
	F-HDA	5			
	A-A2C2/	1			
	A-A2D2/				
	A-A2C4/				
	A-A2D4				
	A-A2E2	1			
1A9A	F-A1C2	43	9700A	97-235	Temporary error was one of the following: * Data Unsafe - Write & Not Ready both active - Write not active & AE Unsafe w/AE Selected * Servo Interrupt - (Not) Power Good - Disk Speed / VCO check Fault may be in Drive A, B, C, or D (if installed). Run ERAP to determine failing location. (See MIM 97-518)
	F-A1B2	42		97-215	
	F-A1D2	1			
	F-A1E2	1			
	F-A1E5	1			
	F-W1B1	1			
	F-HDA	1			
1A9b	F-A1D2	34	9700A	97-235	Temporary Error was one of the following: * Sector Check * Disk Write Data Check * Servo Interrupt - Servo off track - Unexpected guard band - Seek Time-out - PLO out of sync Fault may be in Drive A, B, C, or D (if installed).
	F-A1B2	28		97-215	
	F-A1C2	26			
	F-W1B1	1			
	F-A1E5	1			
	F-HDA	1			
	F-VCM	1			

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						Run ERAP to determine failing location. (See MIM 97-508/97-518)
1A9C	F-A1C2	45	9700A	97-235		Temporary error was one of the following: * Disk Format Unsafe * Data Unsafe - AE unsafe w/o AE select Fault may be in Drive A, B, C, or D (if installed). Run ERAP to determine failing location. (See MIM 97-508/97-518)
	F-HDA	16		97-215		
	F-A1E2	15				
	F-A1A3	12				
	A-A2C2/	1				
	A-A2D2/					
	A-A2C4/					
	A-A2D4					
	F-A1B2	1				
	F-W1B1	1				
1A9F	Media	30	9700A	97-235		Temporary error was one of the following: * Sync Not Found check * CRC/ECC check * No Record Found check Corrective Action: Run Analysis (MIM 01-730) to check for bad sector ID or bad data written on the HDA. Fault may be in Drive A, B, C, or D (if installed). Run ERAP to determine failing location. (See MIM 97-508)
	F-A1C2	20		97-215		
	F-A1B2	10				
	F-HDA	1				
	F-A1E2	1				
	F-W1B1	1				
	A-A2C2/	1				
	A-A2D2/					
	A-A2C4/					
	A-A2D4					
	F-A1D2	1				
	F-A1A3	1				
1AA0	A-A2E2	56	9700A	90-210		Temporary error occurred. Fault may be in Drive A, B, C, or D (if installed). Run ERAP to determine failing location.
	A-A2C2/	43		97-200		
	A-A2D2/					
	A-A2C4/					
	A-A2D4					
1AA1	A-A2E2	99	9700A	90-210		Temporary error occurred.
1AA2	A-A2E2	49	9700A	90-210		Temporary error occurred. Fault may be in Drive A, B, C, or D (if installed). Run ERAP to determine failing location.
	A-A2C2/	37		97-200		
	A-A2D2/					
	A-A2C4/					
	A-A2D4					

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	F-A1B2	10		97-215	
	F-A1A3	1			
1AA4	A-A2E2	60	9700A	90-210	Temporary error occurred. Fault may be in Drive A, B, C, or D (if installed). Run ERAP to determine failing location.
	A-A2C2/	32		97-200	
	A-A2D2/				
	A-A2C4/				
	A-A2D4				
	F-A1C2	1		97-215	
	F-A1A3	1		10-100	
	Channel	1			
	F-A1B2	1			
1AA5	A-A2E2	48	9700A	97-200	Temporary error was one of the following: * Cycle Steal Address Ck * Command Parity check * Cycle Steal Parity Ck * DSA Buffer Write check * Interface Time-out * Data Bus Parity check * Data Cycle Underrun Ck * Data Cycle Overrun Ck * Command Cycle Parity Ck Fault may be in Drive A, B, C, or D (if installed). Run ERAP to determine failing location. (See MIM 97-508)
	A-A2C2/	42		90-210	
	A-A2D2/				
	A-A2C4/				
	A-A2D4				
	A-A2J2	10			
1AA6	F-A1B2	34	9700A	97-200	Temporary error was one of the following: * Data Overrun check * Command Error * Command Reject * Device Busy * Disk Not Ready * Cable Continuity Error * Disk Access Time-out * No Control Sample Rcvd * Disk Sense Parity Check * Disk Interrupt Check * Servo Interrupt - Guard band 2
	A-A2C2/	22		90-210	
	A-A2D2/			97-215	
	A-A2C4/				
	A-A2D4				
	F-A1A4	16			
	F-A1A5	16			
	F-A1C2	5			
	F-A1A3	4			
	A-A2E2	1			

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					Fault may be in Drive A, B, C, or D (if installed). Run ERAP to determine failing location. (See MIM 97-508/97-518)
1AA7	F-A1C2	46	9700A	97-200	Temporary error was one of the following: * Data Unsafe - Write & Servo off track - Write active & not in data field - Write & Read both actv - Write active & AE select error - AE Unsafe Fault may be in Drive A, B, C, or D (if installed). Run ERAP to determine failing location. (See MIM 97-518)
	A-A2C2/	21		97-215	
	A-A2D2/				
	A-A2C4/				
	A-A2D4				
	F-A1A3	21			
	F-A1B2	12			
	F-A1D2	1			
1AA9	F-A1B2	30	9700A	97-200	Temporary error occurred. Fault may be in Drive A, B, C, or D (if installed). Run ERAP to determine failing location. Error detected was: * Unseated card or cable Corrective Action: Reseat all 10SR cards and cables.
	F-A1C2	27		97-235	
	F-A1D2	5		90-210	
	F-A1E2	5		97-215	
	F-A1E5	5			
	F-W1B1	5			
	F-HDA	5			
	A-A2C2/	1			
	A-A2D2/				
	A-A2C4/				
	A-A2D4				
	A-A2E2	1			
1AAA	F-A1C2	43	9700A	97-235	Temporary error was one of the following: * Data Unsafe - Write and Not Ready both active - Write Not Active & AE Unsafe w/AE selected * Servo Interrupt - (Not) Power Good
	F-A1B2	42		97-215	
	F-A1D2	1			
	F-A1E2	1			
	F-A1E5	1			
	F-W1B1	1			
	F-HDA	1			

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						- Disk Speed / VCO check   Fault may be in Drive A,   B, C, or D (if installed).   Run ERAP to determine   failing location.   (See MIM 97-518)
1AAb	F-A1D2	34	9700A		97-235	Temporary error was one of   the following:   * Sector Check   * Disk Write Data Check   * Servo Interrupt   - Servo off track   - Unexpected guard band   - Seek Time-out   - PLO out of sync   Fault may be in Drive A,   B, C, or D (if installed).   Run ERAP to determine   failing location.   (See MIM 97-508/97-518)
	F-A1B2	28			97-215	
	F-A1C2	26				
	F-W1B1	1				
	F-A1E5	1				
	F-HDA	1				
	F-VCM	1				
1AAC	F-A1C2	45	9700A		97-235	Temporary error was one   of the following:   * Disk Format Check   * Data Unsafe   - AE Unsafe without an   AE selected   Fault may be in Drive A,   B, C, or D (if installed).   Run ERAP to determine   failing location.   (See MIM 97-518)
	F-HDA	16			97-215	
	F-A1E2	15				
	F-A1A3	12				
	A-A2C2/	1				
	A-A2D2/					
	A-A2C4/					
	A-A2D4					
	F-A1B2	1				
	F-W1B1	1				
1AAF	Media	30	9700A		97-235	Temporary error was one   of the following:   * Sync Not Found Check   * CRC/ECC Check   * No Record Found Check   Corrective Action:   Run Analysis (MIM 01-730)   to check for bad sector ID   or bad data written on the   HDA
	F-A1C2	20			97-215	
	F-A1B2	10				
	F-HDA	1				
	F-A1E2	1				
	F-W1B1	1				
	A-A2C2/	1				
	A-A2D2/					
	A-A2C4/					
	A-A2D4					

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	F-A1D2	1				See MIM 97-508 for additional information on Fault may be in Drive A, B, C, or D (if installed). Run ERAP to determine failing location. (See MIM 97-508)
	F-A1A3	1				
1Ab0	F-A1B2	33	9700A	97-215		Temporary error was: * Cable continuity Check
	A-A2C2/	33		97-200		Corrective Action: Reseat cards and cables
	A-A2D2/					Fault may be in Drive A, B, C, or D (if installed)
	A-A2C4/					Run ERAP to determine failing location.
	A-A2D4					
	F-A1A3	27				
	F-A1A4	1				
	F-A1A5	1				
1Ab2	A-A2C2/	43	9700A	97-200		Temporary error occurred. Fault may be in Drive A, B, C, or D (if installed). Run ERAP to determine failing location.
	A-A2D2/					
	A-A2C4/					
	A-A2D4					
	F-A1B2	28		97-215		
	F-A1A4	22				
	F-A1A5	1				
	F-A1A3	1				
1Ab4	F-A1C2	57	9700A	97-215		Temporary error occurred.
	A-A2C2/	29		97-200		Fault may be in Drive A, B, C, or D (if installed). Run ERAP to determine failing location.
	A-A2D2/					
	A-A2C4/					
	A-A2D4					
	F-A1A3	27				
	F-A1A5	1				
	F-A1A3	1				
1AbA	F-A1B2	41	9700A	97-215		Temporary error occurred.
	A-A2C2/	28		97-200		Fault may be in Drive A, B, C, or D (if installed). Run ERAP to determine failing location.
	A-A2D2/					
	A-A2C4/					
	A-A2D4					
	F-A1A4	11		90-210		
	F-A1A5	9				
	F-A1A3	1				
	A-A2E2	1				

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1Abb	F-A1B2	61	9700A	97-215	Temporary error occurred.	
	F-A1C2	24		97-200		
	F-A1D2	6		90-210		
	A-A2C2/	1				Fault may be in Drive A, B, C, or D (if installed). Run ERAP to determine failing location.
	A-A2D2/					
	A-A2C4/					
	A-A2D4					
	A-A2E2	1				
F-A1A5	1					
F-A1A4	1					
1AbC	F-A1B2	37	9700A	97-215	Temporary error occurred.	
	A-A2C2/	25		97-200		
	A-A2D2/					Fault may be in Drive A, B, C, or D (if installed). Run ERAP to determine failing location.
	A-A2C4/					
	A-A2D4					
	F-A1A3	14				
	F-A1A4	11				
	F-A1A5	10				
F-A1C2	1					
1Abd	F-A1B2	64	9700A	97-215	Temporary error occurred.	
	A-A2C2/	13		97-200		
	A-A2D2/					Fault may be in Drive A, B, C, or D (if installed). Run ERAP to determine failing location.
	A-A2C4/					
	A-A2D4					
	F-A1C2	11				
	F-A1A5	1				
	F-A1A4	1				
F-A1A3	1					
1AbE	F-A1B2	46	9700A	97-215	Temporary error occurred.	
	A-A2C2/	16		97-200		
	A-A2D2/					Fault may be in Drive A, B, C, or D (if installed). Run ERAP to determine failing location.
	A-A2C4/					
	A-A2D4					
	F-A1C2	15		90-210		
	A-A2E2	7		10-100		
	F-A1A4	1				
	F-A1A3	1				
	F-A1A5	1				
	F-A1D2	1				
Channe	1					

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1AC0	F-A1B2 F-A1C2 F-A1D2 F-A1E2 F-A1E5 F-HDA F-W1B1	50 1 1 1 1 1 1	9700A	97-215 97-235	Temporary error was: * Unseated Card or Cable Corrective Action: Reseat all 10SR cards and cables. Fault may be in Drive A, B, C, or D (if installed) Run ERAP to determine failing location.
1AC1	F-A1B2	98	9700A	97-215	Temporary error occurred. Fault may be in Drive A, B, C, or D (if installed). Run ERAP to determine failing location.
1AC2	F-A1B2 F-A1A3	66 33	9700A	97-215	Temporary error occurred. Fault may be in Drive A, B, C, or D (if installed). Run ERAP to determine failing location.
1AC3	F-A1C2	98	9700A	97-215	Temporary error occurred. Fault may be in Drive A, B, C, or D (if installed). Run ERAP to determine failing location.
1AC5	F-A1B2 F-A1C2	82 17	9700A	97-215	Temporary error occurred. Fault may be in Drive A, B, C, or D (if installed). Run ERAP to determine failing location.
1AC6	F-A1C2 F-A1B2 F-A1A3	60 35 1	9700A	97-215	Temporary error occurred. Fault may be in Drive A, B, C, or D (if installed). Run ERAP to determine failing location.
1AC7	F-A1B2 F-A1C2 F-A1A3	64 35 1	9700A	97-215	Temporary error occurred. Fault may be in Drive A, B, C, or D (if installed).

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						Run ERAP to determine failing location.
1AC8	F-A1C2 F-A1B2	70 30	9700A		97-215	Temporary error occurred. Fault may be in Drive A, B, C, or D (if installed). Run ERAP to determine failing location.
1ACA	F-A1C2 F-W1B1 F-A1E2	71 18 10	9700A		97-215 97-235	Temporary error occurred. Fault may be in Drive A, B, C, or D (if installed). Run ERAP to determine failing location.
1ACb	F-A1C2 F-W1B1 F-A1E2	44 35 20	9700A		97-215 97-235	Temporary error occurred. Fault may be in Drive A, B, C, or D (if installed). Run ERAP to determine failing location.
1Ad0	F-A1D2	98	9700A		97-215	Temporary error occurred. Fault may be in Drive A, B, C, or D (if installed). Run ERAP to determine failing location.
1Ad2	F-A1B2 F-A1A3 F-A1D2	50 27 22	9700A		97-215	Temporary error occurred. Fault may be in Drive A, B, C, or D (if installed). Run ERAP to determine failing location.
1Ad4	F-A1B2 F-A1C2 F-A1D2	67 25 7	9700A		97-215	Temporary error occurred. Fault may be in Drive A, B, C, or D (if installed). Run ERAP to determine failing location.
1Ad5	F-A1D2 F-A1C2	87 12	9700A		97-215	Temporary error occurred. Fault may be in Drive A, B, C, or D (if installed). Run ERAP to determine failing location.

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1Ad8	F-A1D2	71	9700A	97-215	Temporary error occurred. Fault may be in Drive A, B, C, or D (if installed). Run ERAP to determine failing location.
	F-A1C2	12			
	F-A1B2	10			
	F-VCM	1			
1AdA	F-A1D2	60	9700A	97-215	Temporary error occurred.
	F-A1C2	27		97-200	Fault may be in Drive A, B, C, or D (if installed). Run ERAP to determine failing location.
	A-A2C2/	1			
	A-A2D2/				
	A-A2C4/				
	A-A2D4				
	F-A1A3	1			
1AdC	F-A1D2	49	9700A	97-215	Temporary error occurred.
	F-A1E5	26			Fault may be in Drive A, B, C, or D (if installed). Run ERAP to determine failing location. Corrective action: Run Analysis (MIM 01-730) to check for bad sector ID or bad data on the HDA.
	F-HDA	14			
	Media	10			
1AE0	F-A1B2	48	9700A	97-215	Temporary error occurred.
	F-A1C2	24		97-200	Fault may be in Drive A, B, C, or D (if installed). Run ERAP to determine failing location.
	F-A1D2	15			
	A-A2C2/	1			
	A-A2D2/				
	A-A2C4/				
	A-A2D4				
	F-VCM	1			
	F-A1E5	1			
	F-A1A5	1			
	F-A1A4	1			
	F-A1A3	1			
	F-HDA	1			
	F-A1E2	1			
1AE1	F-A1B2	54	9700A	97-215	Temporary error occurred.
	F-A1C2	23			Fault may be in Drive A, B, C, or D (if installed). Run ERAP to determine
	F-A1D2	19			
	F-VCM	1			

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	F-A1E5	1				failing location.
1AE3	F-A1C2	39	9700A		97-215	Temporary error occurred.
	F-A1B2	33				Fault may be in Drive A,
	F-A1D2	1				B, C, or D (if installed).
	F-A1E5	1				Run ERAP to determine
	F-HDA	1				failing location.
1AE4	F-A1C2	48	9700A		97-215	Temporary error occurred.
	F-A1D2	25				Fault may be in Drive A,
	F-A1E5	13				B, C, or D (if installed).
	F-HDA	12				Run ERAP to determine
						failing location.
1AE5	F-A1C2	45	9700A		97-215	Temporary error occurred.
	F-A1B2	25				Fault may be in Drive A,
	F-A1E2	15				B, C, or D (if installed).
	F-HDA	12				Run ERAP to determine
						failing location.
1AE7	F-A1D2	31	9700A		97-215	Temporary error occurred.
	F-A1C2	27			97-200	Fault may be in Drive A,
	F-A1B2	13			97-235	B, C, or D (if installed).
	F-W1B1	10				Run ERAP to determine
	F-A1E2	1				failing location.
	F-HDA	1				
	F-VCM	1				
	A-A2C2/	1				
	A-A2D2/					
	A-A2C4/					
	A-A2D4					
	F-A1A3	1				
1AE8	F-A1D2	44	9700A		97-215	Temporary error occurred.
	F-A1B2	31				Fault may be in Drive A,
	F-A1C2	18				B, C, or D (if installed)
	F-VCM	1				Run ERAP to determine
	F-A1E5	1				failing location.
	F-HDA	1				
1AE9	F-A1D2	45	9700A		97-215	Temporary error occurred.
	F-A1B2	27			97-225	Fault may be in Drive A,
	F-A1C2	21			97-230	B, C, or D (if installed)

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	F-VCM	1				Run ERAP to determine
	F-A1E5	1				failing location.
	F-HDA	1				Reseat power distribution
	Pwr cb1	1				cables to 10SR. Check
						'Power Good' (FLD GA915)
-----						
1AEA	F-A1C2	30	9700A		97-215	Temporary error occurred.
	F-A1B2	33			97-200	Fault may be in Drive A,
	F-W1B1	8			97-235	B, C, or D (if installed)
	F-HDA	7				Run ERAP to determine
	F-A1E2	1				failing location.
	A-A2C2/	1				
	A-A2D2/					
	A-A2C4/					
	A-A2D4					
	F-A1A3	1				
	F-A1D2	1				
	F-A1E5	1				
	F-A1A5	1				
	F-A1A4	1				
-----						
1AEb	F-A1B2	57	9700A		97-215	Temporary error occurred.
	F-A1C2	18			97-235	Fault may be in Drive A,
	F-A1E2	1				B, C, or D (if installed)
	F-A1D2	1			97-225	Run ERAP to determine
	F-W1B1	1			97-230	failing location.
	F-HDA	1				Reseat power distribution
	Pwr cb1	1				cables to 10SR. Check
	F-A1E5	1				'Power Good' (FLD GA915)
-----						
1AEC	F-A1B2	32	9700A		97-215	Temporary error occurred.
	F-A1C2	24			97-200	Fault may be in Drive A,
	F-A1D2	23			97-235	B, C, or D (if installed)
	F-A1E2	1				Run ERAP to determine
	F-VCM	1				failing location.
	F-A1E5	1				
	A-A2D2	1				
	F-HDA	1				
	F-W1B1	1				
	F-A1A5	1				
	F-A1A3	1				
	F-A1A4	1				
-----						
1AEd	F-A1C2	36	9700A		97-215	Temporary error occurred.

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	F-HDA	12		97-200	Fault may be in Drive A, B, C, or D (if installed). Run ERAP to determine failing location.
	F-W1B1	9		97-235	
	A-A2C2/	1			
	A-A2D2/				
	A-A2C4/				
	A-A2D4				
	F-A1A3	1			
	F-A1D2	1			
	F-A1E5	1			
	F-A1E2	1			
1AEF	F-W1B1	34	9700A	97-235	Temporary error occurred. Fault may be in Drive A, B, C, or D (if installed). Run ERAP to determine failing location.
	F-A1C2	27		97-215	
	F-HDA	13		97-200	
	F-A1E2	10			
	F-A1D2	1			
	A-A2C2/	1			
	A-A2D2/				
	A-A2C4/				
	A-A2D4				
	F-A1B2	1			
	F-A1E5	1			
	F-A1A3	1			
1AF0	F-A1D2	19	9700A	97-200	Temporary error occurred. Corrective Action: Run Analysis (MIM 01-730) to check for bad sector ID or bad data written on the HDA. Fault may be in Drive A, B, C, or D (if installed). Run ERAP to determine failure location.
	A-A2C2/	18		90-210	
	A-A2D2/			97-215	
	A-A2C4/			10-100	
	A-A2D4				
	A-A2E2	14			
	F-A1C2	10			
	F-A1A4	1			
	F-A1A5	1			
	F-A1A3	1			
	F-VCM	1			
	F-A1E5	1			
	Channel	1			
	A-A2J2	1			
	F-HDA	1			
	Media	1			
1AF1	F-A1C2	34	9700A	97-215	Temporary error occurred. Fault may be in Drive A, B, C, or D (if installed).
	A-A2C2/	16		97-200	
	A-A2D2/			97-235	

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	A-A2C4/			90-210	Run ERAP to determine
	A-A2D4			10-100	failing location.
	F-A1B2	16			Corrective Action:
	A-A2E2	8			Reseat cards and cables.
	F-W1B1	1			Run Analysis (MIM 01-730)
	F-A1D2	1			to check for bad sector ID
	F-A1A5	1			or bad data written on the
	F-HDA	1			HDA.
	F-A1A3	1			
	F-A1A4	1			
	F-A1A5	1			
	F-A1E5	1			
	Channel	1			
	A-A2J2	1			
	Media	1			
-----					
1AF2	F-A1C2	38	9700A	97-215	Temporary error occurred.
	F-A1B2	17		97-200	Fault may be in Drive A,
	F-HDA	11		97-235	B, C, or D (if installed).
	F-A1E2	10		90-210	Run ERAP to determine
	F-W1B1	1			failing location.
	A-A2C2/	1			Corrective Action:
	A-A2D2/				Reseat cards and cables.
	A-A2C4/				Run Analysis (MIM 01-730)
	A-A2D4				to check for bad sector ID
	F-A1A3	1			or bad data written on the
	F-A1D2	1			HDA.
	A-A2E2	1			
	F-A1E5	1			
	F-A1A5	1			
	F-A1A4	1			
	Media	1			
-----					
1AF3	F-A1C2	28	9700A	97-215	Temporary error occurred.
	F-A1B2	24		97-200	Fault may be in Drive A,
	A-A2C2/	16		97-235	B, C, or D (if installed).
	A-A2D2/			90-210	Run ERAP to determine
	A-A2C4/				failing location.
	A-A2D4				Corrective Action:
	A-A2E2	7			Run Analysis (MIM 01-730)
	F-A1D2	7			to check for bad sector ID
	F-A1A3	1			or bad data written on the
	A-A1A4	1			HDA.
	F-A1A5	1			

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	F-HDA	1				
	F-W1B1	1				
	F-A1E2	1				
	F-VCM	1				
	F-A1E5	1				
	Media	1				
1AFF				97-110		Go to MAP 9700, A.
				90-110		Temporary error occurred.
						Unable to determine FRU.
						Attempt to recreate error,
						or use other SRC codes.

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ENTRY POINTS

-----			
FROM	ENTER THIS MAP		
-----			
MAP	ENTRY	PAGE	STEP
NUMBER	POINT	NUMBER	NUMBER
-----			
0101	A	1	001
0199	A	1	001

001  
(Entry Point A)

MAP DESCRIPTION:

This MAP contains the system reference codes 1b00 through 9FFF. Any code not listed in this MAP, MAP 0113, MAP 0114, MAP 0116 or MAP 0118 are not valid.

START CONDITIONS:

A failure has occurred and has resulted in a 4 character code being logged or displayed. Each code represents a condition of failure.  
 - Use the MAP reference to isolate the failing FRU or FRU group.

Multiple Unit:

- If a SRC points to two or more units (such as Drive A, Drive B), use ERAP to determine the failing unit.

Reference Code Index for MAP 0115

SRC	Device or Function	Device MAP Entry
-----		
1bxx	8809 Tape	9900,A
1Cxx	Work station Attachment	7001,AA
1dxx	Diskette	0179,A
1Exx	3262 Printer	5001,A
2xxx	SSP Program	(talk to PSR)
4xxx	Sungate	

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5xxx Customer Set Up (see CSU Manual)  
 71xx Remote Display  
 72xx Remote Printer  
 81xx Work station Display  
 82xx Work station Printer

```
*****
***** Tape 1bxx *****
1b01|A-A2K2|60|9900A|99-110|TK-200|Unable to reset interrupt.
    |A-A2L2|30|    |    |    |TL-200|
    |A-A2J2|10|    |    |    |TJ-200|
-----+-----+-----+-----+-----+-----+-----
1b02|A-A2K2|90|9900A|99-110|TK-200|DSA cycle steal parity
    |A-A2J2|10|    |    |    |TJ-200|check.
-----+-----+-----+-----+-----+-----+-----
1b03|A-A2K2|90|9900A|99-110|TK-200|DSA bus out parity check.
    |A-A2J2|5|    |    |    |TJ-200|
    |A-A2L2|5|    |    |    |    |
-----+-----+-----+-----+-----+-----+-----
1b04|A-A2K2|50|9900A|99-110|TK-200|DSA bus in parity check.
    |A-A2J2|30|    |    |    |TJ-200|
    |A-A2L2|10|    |    |    |TL-200|
-----+-----+-----+-----+-----+-----+-----
1b05|A-A2K2|90|9900A|99-110|TK-200|Not write mode, buffer
    |A-A2J2|10|    |    |    |TJ-200|select.
-----+-----+-----+-----+-----+-----+-----
1b06|A-A2K2|80|9900A|99-110|TK-200|Wrong end op.
    |A-A2J2|5|    |    |    |TJ-200|
    |A-A2L2|5|    |    |    |TL-200|
    |8809-C2|5|    |    |    |    |
-----+-----+-----+-----+-----+-----+-----
1b07|A-A2K2|90|9900A|99-110|TK-200|Wrong DSA counters.
    |A-A2J2|10|    |    |    |TJ-200|
-----+-----+-----+-----+-----+-----+-----
1b08|A-A2K2|80|9900A|99-110|TK-200|Wrong channel address.
    |A-A2J2|20|    |    |    |TJ-200|
-----+-----+-----+-----+-----+-----+-----
1b09|A-A2K2|80|9900A|99-110|TK-200|Wrong DLC counter.
    |A-A2J2|10|    |    |    |TJ-200|
    |A-A2L2|5|    |    |    |TL-200|
-----+-----+-----+-----+-----+-----+-----
1b0A|A-A2K2|80|9900A|99-110|TK-200|DSA length check.
    |A-A2J2|10|    |    |    |TJ-200|
    |A-A2L2|5|    |    |    |TL-200|
    |8809-C2|5|    |    |    |    |
-----+-----+-----+-----+-----+-----+-----
```

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1b0b	A-A2L2	60	9900A	99-110	TL-200	Transfer complete not
	A-A2K2	40			TK-200	active.
1b0c	A-A2J2	50	9900A	99-110	TJ-200	Wrong cycle steal LSR.
	A-A2K2	50			TK-200	
1b0d	A-A2K2	80	9900A	99-110	TK-200	Transfer ready not on.
	A-A2J2	10			TJ-200	
	A-A2L2	5			TL-200	
1b0E	A-A2J2	90	9900A	90-110	TJ-200	A not valid vol
	A-A2K2	10			TK-200	sequencing.
1b0F	A-A2L2	80	9900A	99-110	TL-200	Tactical bus in parity
	A-A2K2	10			TK-200	check on a DPC operation.
	A-A2J2	5			TJ-200	
1b10						
1b11						
1b12						
1b13						
1b14						
1b15						
1b16						
1b17						
1b18						
1b19						
1b1A						
1b1b						
1b1c						
1b1d						

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1b1E						
1b1F						
1b1x	A-A2J2	70	9900A	99-110	TJ-200	Not a valid command.
	8809-C2	10				
	8809-G2	10				
	A-A2L2	2				
	A-A2U4	2				
1b20	A-A2J2	99	9900A	90-110	TJ-200	Not a valid command.
1b21	A-A2J2	99	9900A	90-110	TJ-200	Not a valid command.
1b22	A-A2J2	99	9900A	90-110	TJ-200	Not a valid command.
1b23	A-A2J2	80	9900A	90-110	TJ-200	Not a valid command.
	8809-C2	20				
1b24	A-A2J2	80	9900A	90-110	TJ-200	Not a valid cont command.
	8809-C2	20				
1b25	A-A2J2	99	9900A	90-110	TJ-200	Not a valid block length.
1b26	A-A2J2	99	9900A	90-110	TJ-200	Not a valid file number specified.
1b28	A-A2L2	50	9900A	90-110	TL-200	Unknown error.
	A-A2K2	20			TK-200	
	A-A2J2	20			TJ-200	
	A-A2E2	10				
1b29	A-A2L2	70	9900A	99-110	TL-200	Unknown error.
	A-A2K2	10			TK-200	
	A-A2J2	10			TJ-200	
	A-A2E2	10				
1b30	A-A2J2	45	9900A	99-110	AA005	Tape drive busy.
	A-A2K2	20			TJ-200	
	A-A2L2	10			TL-200	
	8809-C2	10				
	A-A2U4	5				

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1b31	A-A2J2	80	9900A	99-110	TJ-200	Position lost on tape.
	A-A2L2	10			TL-900	
	A-A2U4	5				
	8809-C2	5				
-----						
1b34	A-A2J2	99	9900A	90-110	TJ-200	Data length short.
-----						
1b35	A-A2J2	70	9900A	90-110	TJ-200	Invalid volume ID.
	8809-C2	15				
	Prog	10				
-----						
1b36	A-A2J2	70	9900A	90-110	TJ-200	EOT found searching for label * PDP will direct customer to look for EOT marker in wrong place.
	8809-C2	15				
	Prog	10				
-----						
1b37	A-A2J2	80	9900A	90-110	TJ-200	Tape mark detected.
	8809-C2	20				
-----						
1b38	A-A2J2	80	9900A	90-110	TJ-200	Disk block counter not equal to count label.
	8809	20				
-----						
1b39	A-A2J2	80	9900A	90-110	TJ-200	Not a valid header label.
	8809	20				
-----						
1b3A	A-A2J2	80	9900A	90-110	TJ-200	EOT found not expected. *EOT will check both marker.
	8809	20				
-----						
1b3b	A-A2J2	80	9900A	90-110	TJ-200	Not a valid trailer label.
	8809	20				
-----						
1b3C	A-A2J2	80	9900A	99-110	AA005	Previous op failed.
	A-A2K2	10			TJ-200	
	A-A2L2	5				
-----						
1b40	8809-C2	40	9900A	99-110	AA005	Tape bus in parity error on data.
	8809-G2	20				
	8809-H2	10				
	A-A2L2	20				
	A-A2U4	10				
-----						
1b41	8809-C2	40	9900A	99-110	AA005	Active control Line (DCI)
	8809-G2	20				

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	8809-H2   20					
	A-A2L2   10				TL-200	before selection.
	A-A2U5   5				TL-900	
	A-A2K2   1					
	A-A2U4   1					
1b42	8809-C2   50	9900A		99-110	AA005	Select active still on
	8809-G2   30					
	A-A2L2   10				TL-200	after deselection.
	A-A2U5   5				TL-900	
1b43	8809-C2   40	9900A		99-110	AA005	Time out waiting for tag
	8809-G2   10					
	8809-H2   10					
	8809-F2   10					
	A-A2L2   10				TL-200	valid (not on selection).
	A-A2U5   3				TL-900	
	A-A2U4   3					
1b44	8809-G2   40	9900A		99-110	AA005	Time out waiting for
	8809-F2   10					
	8809-C2   10					
	8809-H2   10					
	A-A2L2   10				TL-200	normal end (on immediate
	A-A2U5   5				TL-900	command).
1b45	8809-G2   80	9900A		99-110	AA005	Sync in more often than
	A-A2L2   20				TL-200	sync out.
1b46	8809-C2   40	9900A		99-110	AA005	Time out waiting for
	8809-G2   20					
	8809-H2   10					
	A-A2J2   10				TJ-200	poll response.
	A-A2K2   5					
	A-A2L2   5					
	A-A2U4   5					
	A-A2U5   5					
1b47	8809-G2   50	9900A		8809	AA005	Data security erase
	8809-F2   20					
	8809-H2   10					
	8809-HD   10			MIM		failure.
1b48	8809-G2   50	9900A		99-110	AA005	No op complete after a

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	8809-C2   30					
	8809-H2   5					
	A-A2U4   5			TL-900	valid poll response.	
	A-A2U5   5			TL-900		
	A-A2L2   5			TL-200		
1b49	8809-G2   50	9900A		99-110	AA005	Timeout.
	8809-C2   20					
	8809-H2   10					
	A-A2U5   5			TL-900	Run tape MDIs before	
	A-A2U4   5			TL-900	replacing FRUs.	
	A-A2L2   5			TL-200		
1b4A	8809-G2   70	9900A		99-110	AA005	Normal end not set on
	A-A2L2   20				TL-200	select, poll, or disc.
	A-A2U4   5				TL-900	
	A-A2U5   5					
1b4b	8809-G2   60	9900A		99-110	AA005	Tape bus in parity chk
	8809-C2   30					
	A-A2L2   5				TL-200	on command sequence.
	A-A2U4   5				TL-900	
1b4C	8809-C2   50	9900A		99-110	AA005	Select active not set
	8809-G2   30					
	A-A2L2   14				TL-200	after selection.
	A-A2U4   3				TL-900	Cont-Cab = Control cable
	A-A2U5   3					
1b4d	8809-G2   80	9900A		99-110	AA005	Normal end control line
	A-A2U4   5				TL-900	is active early during a
	A-A2U5   5				TL-900	write operation.
	A-A2L2   5				TL-200	
1b4E	8809-G2   40	9900A		99-110	AA005	Select active set before
	8809-C2   30					
	A-A2L2   20				TL-200	select hold set.
	A-A2U5   5					
1b4F	8809-G2   60	9900A		99-110	AA005	Wrong or no address
	8809-C2   20					
	A-A2K2   5				TK-200	return on selection.
	A-A2L2   5					
	A-A2U4   5					

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1b50	8809-G2	60	9900A	8809	AA005	Sync out check.
	8809-C2	30				
	A-A2L2	5		MIM	TL-200	
	A-A2U5	5			TL-900	
1b51	8809-G2	50	9900A	99-110	AA005	DCI seq check.
	8809-C2	30				
	A-A2L2	10			TL-200	
	A-A2U4	5			TL-900	
	A-A2U5	5				
1b52	A-A2L2	50	9900A	99-110	TL-200	Tag parity check.
	8809-G2	20			AA005	
	8809-C2	10				
	8809-F2	5				
	8809-HD	5				
	A-A2U4	5			TL-900	
	A-A2U5	5				
1b53	A-A2L2	60	9900A	99-110	TL-200	Bus out parity check.
	8809-C2	20			AA005	
	8809-G2	10				
	A-A2U4	5			TL-900	
	A-A2U5	5			TL-900	
1b54	8809-G2	50	9900A	8809	AA005	Format read fail.
	8809-H2	12				
	8809-F2	10				
	8809-HD	10		MIM		
1b55	8809-G2	60	9900A	8809	AA005	Format write error.
	8809-H2	30		MIM		
1b56	8809-C2	50	9900A	8809	AA005	Sense bus parity check.
	8809-G2	30				
	8809-H2	10		MIM		
1b57	8809-H2	50	9900A	8809	AA005	Clock parity error.
	8809-G2	40		MIM		
1b5A	8809-G2	50	9900A	8809	AA005	Bus out reg parity check.
	8809-C2	30				
	8809-H2	10		MIM		

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1b5b	8809-G2	50	9900A	8809	AA005	Command reg parity check.
	8809-H2	30		MIM		
	8809-C2	10				
1b60	8809-H2	50	9900A	8809	AA005	Power ampere cable.
				MIM		
1b61	8809-TD	50	9900A	8809	AA005	Reel size sensor failure.
	8809-H2	40		MIM		
1b62	8809-TD	40	9900A	8809	AA005	Tape present sensor fail.
	8809-H2	30		MIM		
1b63	8809-TD	40	9900A	8809	AA005	BOT/EOT sensor failure.
	8809-H2	30		MIM		
1b64	8809-H2	60	9900A	8809	AA005	Cover/reel latch inter/ latch = 0.
				MIM		
1b65	8809-H2	60	9900A	8809	AA005	Cover/reel latch inter/ latch = 1.
				MIM		
1b66	8809-TD	40	9900A	8809	AA005	Idler tach rotation check.
	8809-H2	40		MIM		
1b67	8809-TD	40	9900A	8809	AA005	Disk tach failure.
	8809-H2	40		MIM		
1b6A	8809-TD	45	9900A	8809	AA005	Machine tach failure.
	8809-H2	40		MIM		
1b6b	8809-TD	40	9900A	8809	AA005	Idler tach failure.
	8809-H2	40		MIM		
1b6C	8809	90	9900A	8809	AA005	Machine ampere saturation.
				MIM		
1b6d	8809	99	9900A	8809	AA005	Disk ampere saturation.
				MIM		
1b6E	8809-H2	90	9900A	8809	AA005	Servo analog failure.
				MIM		

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1b6F	8809-H2	90	9900A	8809	AA005	Servo logic failure.
				MIM		
1b70	8809-H2	90	9900A	8809	AA005	Drive control failure.
				MIM		
1b71	8809-TD	40	9900A	8809	AA005	Seq error and load check.
	8809-H2	40		MIM		
1b72	8809-H2	50	9900A	8809	AA005	Seq error and tension
	8809-TD	40		MIM		check.
1b73	8809-H2	90	9900A	8809	AA005	Seq error.
				MIM		
1b74	8809-H2	40	9900A	8809	AA005	PEID check. TM detected.
	8809-TD	40		MIM		
1b75	8809-H2	80	9900A	8809	AA005	End velocity check.
				MIM		
1b76	8809-H2	80	9900A	8809	AA005	Start velocity check.
				MIM		
1b77	8809-H2	40	9900A	8809	AA005	Gap control check.
	8809-G2	40		MIM		
1b78	8809-G2	40	9900A	8809	AA005	
	8809-H2	40		MIM		
1b7A	8809-G2	50	9900A	8809	AA005	Drive control parity chk.
	8809-H2	30		MIM		
1b7b	8809-G2	40	9900A	8809	AA005	Drive response check.
	8809-H2	30				
	8809-F2	10				
	8809-HD	10		MIM		
1b7C	8809-H2	90	9900A	8809	AA005	Not ready caused by the
				MIM		reset key.
1b7d	8809-H2	50	9900A	8809	AA005	Not ready.
	8809-F2	40		MIM		

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1b7E	8809-H2	90	9900A	8809 MIM	AA005	Load check.
1bA0	8809-G2 8809-H2 8809-F2 8809-HD	40 30 10 10	9900A	8809  MIM	AA005	Read back and formatted  read failure (pos media).
1bA1	8809-G2 8809-F2 8809-HD	50 30 10	9900A	8809  MIM	AA005	Write bus parity check.
1bA2	8809-H2 8809-HD	50 40	9900A	8809 MIM	AA005	Write current failure.
1bA3	8809-H2 8809-HD	50 40	9900A	8809 MIM	AA005	Write enable failure.
1bA4	8809-F2 8809-G2 8809-HD	40 30 10	9900A	8809  MIM	AA005	Read bus parity check.
1bA5	8809-G2 8809-C2 8809-H2	50 30 10	9900A	8809  MIM	AA005	Select alert and no error condition on.
1bA6	8809-H2 8809-TD 8809-G2	40 30 10	9900A	8809  MIM	AA005	Write enable error.
1bA7	8809-F2 8809-G2 8809-H2 8809-HD	40 30 10 10	9900A	8809   MIM	AA005	Not capable space disk.
1bC0	8809-H2 8809-TD	40 40	9900A	8809 MIM	AA005	Data check on write. EOT after a write op.
1bC1	8809-G2	90	9900A	8809 MIM	AA005	Data check on read. Tape mark detected.
1bC3	8809-G2 8809-H2 8809-C2	40 25 15	9900A	99-110	AA005	Data overrun.

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	A-A2L2	10			TL-200	
	A-A2K2	5			TK-200	
	A-A2U4	5			TU-900	
1bC4	8809-G2	40	9900A	8809	AA005	Not capable after wrt 0.
	8809-H2	30				
	8809-F2	20		MIM		
1bC5	8809-G2	40	9900A	8809	AA005	PEID check after wrt 0.
	8809-H2	30				
	8809-F2	20				
	8809-HD	10		MIM		
1bC6	8809-F2	40	9900A	8809	AA005	Write tape mark error.
	8809-G2	30				
	8809-HD	10				
				MIM		
1bC7	8809-F2	40	9900A	8809	AA005	Multitrack error after
	8809-G2	30				
	8809-HD	10		MIM		wrt op.
1bCA	8809-F2	40	9900A	8809	AA005	Envelope check after
	8809-G2	30				
	8809-H2	10				
	8809-HD	10		MIM		wrt op (media).
1bCb	8809-G2	40	9900A	8809	AA005	Start read check after
	8809-F2	30				
	8809-HD	10		MIM		wrt op.
1bCC	8809-G2	30	9900A	8809	AA005	End data check after
	8809-H2	20				
	8809-F2	20				
	8809-HD	10		MIM		wrt op.
1bCd	8809-G2	40	9900A	8809	AA005	Not capable after non
	8809-F2	20				
	8809-H2	20				
	8809-HD	10		MIM		wrt op.
1bCE	8809-F2	40	9900A	8809	AA005	Crease after A non wrt
	8809-G2	30				
	8809-HD	20		MIM		op (media).

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1bCF	8809-F2	30	9900A		99-110	AA005	No track pointer after
	8809-G2	30					
	8809-HD	10					
	A-A2L2	10				TL-200	wrt op (media).
	A-A2K2	5				TK-900	
	A-A2U4	5				TL-900	
1bd0	8809-F2	40	9900A		8809	AA005	Multitrack error after
	8809-G2	30					
	8809-HD	10			MIM		a non write op.
1bd1	8809-F2	40	9900A		8809	AA005	Skew error after non
	8809-G2	30					
	8809-HD	10			MIM		write op.
1bd2	8809-G2	40	9900A		8809	AA005	Start read check after
	8809-H2	20					
	8809-F2	10					
	8809-HD	10			MIM		a non write op.
1bd3	8809-G2	40	9900A		8809	AA005	Read data check after
	8809-H2	20					
	8809-F2	20					
	8809-HD	10			MIM		a non write op.
1bd4	8809-G2	30	9900A		8809	AA005	PEID check- LWR.
	8809-C2	20					
	8809-F2	20					
	8809-H2	10					
	8809-HD	10			MIM		
1bd5	8809-G2	40	9900A		8809	AA005	End data check on LWR.
	8809-F2	30					
	8809-HD	20			MIM		
1bd6	8809-G2	40	9900A		8809	AA005	Multitrack error after a
	8809-F2	30					LWR.
	8809-HD	20					
	8809-H2	10			MIM		
1bd7	8809-G2	40	9900A		99-110	AA005	Envelope check after a
	8809-F2	30					LWR.
	8809-HD	20					

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	A-A2U5	5			TL-900		
1bdA	8809-G2	30	9900A		8809	AA005	Start read check after a
	8809-F2	20					LWR.
	8809-H2	20					
	8809-HD	10			MIM		
1bdb	8809-G2	30	9900A		8809	AA005	End data check after a
	8809-F2	20					LWR.
	8809-H2	20					
	8809-HD	10			MIM		
1bF0	8809-C2	50	9900A		8809	AA005	Timeout on data transfer
	8809-H2	40			MIM		
1bF1	8809-C2	80	9900A		8809	AA005	Select alert but sense
	A-A2L2	10			MIM	TL-200	data does not specify
	A-A2U5	10				TL-900	cause.
1bF2	8809-C2	80	9900A		8809	AA005	Check end but no data
	A-A2L2	10			MIM	TL-200	check.
	A-A2U5	10				TL-900	
1bF4	8809-C2	75	9900A		8809	AA005	Timeout on data transfer.
	A-A2L2	10			MIM	TL-200	
	A-A2K2	10				TK-200	
	A-A2J2	5				TJ-200	
1bF5			9900A		99-110		Tape OLPD detected an
							error condition.
1bFF	8809-C2	30	9900A		99-110	AA005	Time out waiting for
	8809-G2	20					tag valid on selection.
	A-A2U4	10				TL-900	
	A-A2U5	10					
	A-A2L2	10					
	A-A2K2	10					
***** Work station 1Cxx *****							
1C00	A-A1H2	30	0101B				Default error code for
	A-A3S2	30					w/s attachment.
	A-A1J2	15					
	A-A3T2	15					

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1C01	A-A1H2	69	0101B			WH-100	Failure in w/s attachment.
	A-A1J2	30				WJ-100	
-----							
1C02	A-A1H2	99	0101B			WH-100	w/S attachment controller failed.
-----							
1C03	A-A1J2	95	0101B			WH-100	Failure with w/s adapter.
	A-A1H2	2					
	A-A1V4	2					
-----							
1C04	Mcode	89	0101B				A w/s microcode error has been detected.
	A-A1H2	5					
	A-A1J2	5					
-----							
***** Diskette Drive Code 1dxx *****							
1d01	A-A1F2/	70	0179C	DSA	91-620	DF-100	DSA detected parity error during data transfer or DPC sense of adapter card. Run MDIs for additional isolation before replacing FRUs.
	A-A2F2				93-620	DF-200	
	A-A1E2/	25			91-700	HE-100	
	A-A2E2				93-700	HE-200	
					90-700		
-----							
1d02	A-A1F2/	70	0179C	DSA	91-620	DF-100	Adapter card timed out. Adapter card interface busy time out. Run MDIs for additional isolation before replacing FRUs.
	A-A2F2				93-620	DF-200	
	A-A1E2/	25			91-700	HE-100	
	A-A2E2				93-700	HE-200	
	A-A1G4/	4			90-700		
	A-A2G4						
-----							
1d03	Channel	90	0179C				DSA detected a not valid parity during a cycle steal operation on system channel.
	A-A1E2/	10		DSA	90-700	HE-100	
	A-A2E2				93-620	HE-200	
					93-700		
-----							
1d04	A-A1E2/	70	0179C	DSA	90-700	HE-100	DA detected not valid parity during data transfer or DPC load to DA. Run MDIs for additional isolation before replacing FRUs.
	A-A2E2				91-620	HE-200	
	A-A1F2/	25			91-700	DF-100	
	A-A2F2				93-620	DF-200	
					93-700		
-----							
1d05	A-A1E2/	55	0179C	DSA	90-700	HE-100	Overrun or underrun condition sensed during data operation. Run MDIs
	A-A2E2				91-620	HE-200	
	A-A1F2/	30			93-620	DF-100	

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	A-A2F2				91-700	DF-200	for additional isolation
	System	15			93-700		before replacing FRUs.
1d06	A-A1F2/	75	0179C	DSKT	91-620	DF-100	Not a valid write gate/
	A-A2F2				93-620	DF-200	erase gate wrap or
	DCC	18			91-700	EA-7XX	unsafe.
	Head	5			93-700	DF-9XX	DCC = drive control card.
	A-A1V5/	2			91-311	EX-7XX	Check for open read/write
	A-A2V5				93-394		or erase coils or
					93-245		connector.
1d07	Drive	50	0179C	DSKT	91-352	EA-700	Diskette not at speed
	Diskete	50			93-420	EA-750	(quick); hard-sector
							(multiple hole) dskt.
							Run MDIs for additional
							isolation before replacing
							FRUs.
1d08	A-A1F2/	88	0179C	DSKT	93-620	DF-100	72 MD parity error.
	A-A2F2				93-700	EA-700	DCC = drive control card.
	DCC	10			93-245	DF-900	Run MDIs for additional
	A-A1V5/	02					isolation before replacing
	A-A2V5						FRUs.
1d09	Auto	80	0179C	DSKT	93-310	DF-900	72MD motion check
	loader				93-805		detected or wrap error.
	hardware						Picker fails or no
							diskette in slot selected.
	DCC	20				EA-700	DCC = drive control card.
							Run MDIs for additional
							isolation before replacing
							FRUs.
1d0A	Media/	60	0179A				Diskette not at speed
	op						(stopped or slow). No
	Drive	30					diskette in drive. If
	A-A1F2/	10					unable to separate media/
	A-A2F2						operator, go to MAP 0179,
							Entry Point A.
1d0b	User	95					System received not valid
	Program						parameter (noop).
	A-A1V5/						
	A-A2V5						

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1d0C	A-A1F2/	40	0179C	Dskt	91-620	Cylinder mismatch. Run MDIs for additional isolation.
	A-A2F2				93-620	
	DCC	30				
	Drive	30				DCC = drive control card.
1d0F	Media/	94	0179A		91-302	CRC error; missing AM; ID not found; invoked ECC;
	op				93-303	not a valid control record;
	A-A1F2/	1				write verify mismatch;
	A-A2F2					72MD cover not closed or cover switch failing.
	DCC	1				If unable to separate media/operator/hardware go to MAP 0179, Entry Point A.
	A-A1G4/	1				
	A-A2G4					
	A-A1V5/	1				
	A-A2V5					
	Head	1				
	Pwr cb1	1				
***** Diskette Drive Test Status Codes 1dAx *****						
1dA0	A-A1F2/	95		Dskt		Write control or read control error while running diskette drive test. Run diskette MDIs for FRU isolation.
	A-A2F2					
1dA1	A-A1F2/	25		DSA	91-309	Cannot read cylinder 0 head 0 while running diskette drive test.
	A-A2F2				93-392	
	DCC	25			93-394	
	A-A1G4/	20			91-311	Run diskette MDIs for additional FRU isolation.
	A-A2G4					
	Head	29				
1dA2	A-A1F2/	20		Dskt	91-309	Worn-head test fails on head 0 while running diskette drive test.
	A-A2F2				93-392	
	DCC	30			93-394	
	Head	48			91-311	Run diskette MDIs for additional FRU isolation.
	A-A1V5/	1				
	A-A2V5					
1dA3	A-A1F2/	20		Dskt	91-309	Worn-head test fails on head 1.while running diskette drive test.
	A-A2F2				93-392	
	DCC	30			93-394	
	Head	48			91-311	Run diskette MDIs for

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	A-A1V5/	1					additional FRU isolation.
	A-A2V5						
1dA4	A-A1F2/	20		Dskt	91-309		Worn-head test fails on both 0 and 1 while running diskette drive test.
	A-A2F2				93-392		
	DCC	30			93-394		Run diskette MDIs for additional FRU isolation.
	Head	48			91-311		
	A-A1V5/	1					
	A-A2V5						
1dA5	DCC	80	0179C	Dskt			Scan test fails (hardware error) during OLPD after drive test ran correctly. Run diskette MDIs for additional FRU isolation.
	A-A1F2/	20					
	A-A2F2						
***** 3262 Printer Attachment 1Exx *****							
1E11	A-A2T2	60	5001A			PT-200	Hex 86 controller error
	A-A2R2	30				PR-205	caused by a program loop
	A-A2S2	8				PS-200	time out.
	A-A1L2	1					The 131 milisecond clock may be the cause of the problem.
	TCC/Bd	1					
1E12	A-A2S2	70	5001A			PS-200	Hex 96 controller error
	A-A2R2	20				PR-205	caused by a DBI/DB0 parity
	A-A2T2	9				PT-200	error.
	TCC/Bd	1					
1E13	A-A2T2	75	5001A			PT-200	Hex B6 controller error
	A-A2R2	20				PR-205	caused by a storage parity
	A-A2S2	4				PS-200	error.
	TCC/Bd	1					
1E26	Program error	99					Unprintable character check. The data sent to the 3262 printer has a character not in the belt image and the option to stop on unprintable characters has been set. See the functions reference manual.

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1E28	Program error	99						Program error occurred while using the 3262 printer. Not a valid SCS command. This error indicates that there is a character string in the range of hex 00 through 3F data stream and it is not a valid SCS command. This error may be the result of a spool job having been abnormally terminated because the system was either powered down or an IPL was attempted while the job was running. See the functions reference manual.
1E29	Program error	99						Program error occurred while using the 3262 printer. Not a valid SCS parameter. (This error may be caused by the same condition described for not valid SCS command. It may also be the result of directing output to a printer which cannot process correctly). See the functions reference manual.
1E30	3262	80						Go to 3262 Printer Entry Map 0010.
	A-A2S2	10	5001A					PS-200 Any hammer-on check
	A-A2T2	5						PT-200 occurred (a hammer driver
	I/O cb1	3						is on in the 3262 printer
	A-A2R2	1						PR-205 during not print time).
	TCC/Bd	1						
1E31	A-A2S2	69	5001A					PS-200 Fire tier check (fire

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	3262	15						tier pulses are out of
	A-A2T2	10				PT-200		sequence).
	I/O cb1	4						Go to 3262 Printer Entry
	A-A2R2	1				PR-205		MAP 0010.
	TCC/Bd	1						
1E32	3262	68						Go to 3262 Printer Entry
	A-A2S2	23	5001A			PS-200		MAP 0010.
	A-A2T2	5				PT-200		Hammer echo check (an
	I/O cb1	2						optioned hammer failed to
	A-A2R2	1				PR-205		fire or a hammer that was
	TCC/Bd	1						not optioned is on).
1E33	3262	95						Go to 3262 Printer Entry
	A-A2S2	3	5001A			PS-200		MAP 0010.
	I/O cb1	1						Carriage pedestal check (a
	TCC/Bd	1						short circuited carriage
								pedestal driver in the
								3262 Printer has been
								detected).
1E34	3262	58						Go to 3262 Printer Entry
	A-A2S2	25	5001A			PS-200		MAP 0010.
	A-A2T2	14				PT-200		Printer subscan emitter
	A-A2R2	1				PR-205		check (an expected
	I/O cb1	1				PS-200		transition in the PSS
	TCC/Bd	1						emitter did not occur or
								occurred too soon).
1E35	3262	80						Go to 3262 Printer Entry
	A-A2S2	10	5001A			PS-200		MAP 0010.
	A-A2R2	2				PR-205		Belt sync check (possible
	A-A2T2	2				PT-200		that the print belt
	I/O cb1	2						installed on the printer
	TCC/Bd	1						does not match the belt
	Program	3						image defined to the
	Error							system).
1E36	3262	80						Go to 3262 Printer Entry
	A-A2S2	15	5001A			PS-200		MAP 0010.
	I/O cb1	4						Belt up to speed check
	TCC/Bd	1						(the print belt did not
								reach running speed in 4.5
								seconds).

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1E37	3262	85							Go to 3262 Printer Entry MAP 0010.
	A-A2S2	12	5001A			PS-200			Belt speed check (belt up to speed inactive while belt go was active).
	I/O cb1	2							
	TCC/Bd	1							
1E38	3262	95							Go to 3262 Printer Entry MAP 0010.
	A-A2S2	3	5001A			PS-200			Print busy too long check (printer busy was active longer than three seconds during a print cycle).
	I/O cb1	1							
	TCC/Bd	1							
1E39	A-A2T2	43	5001A			PT-200			Data parity check (even parity on the hammer
	3262	35				PS-200			address bus was detected during a print cycle).
	A-A2S2	10							Go to 3262 Printer Entry MAP 0010.
	I/O cb1	10							
	A-A2R2	1							
	TCC/Bd	1							
1E40	3262	77							Go to 3262 Printer Entry MAP 0010.
	A-A2S2	20	5001A			PS-200			Carriage check 4 (the 1st 3 carriage advance pulses were not received in 6 ms after activating carriage go).
	I/O cb1	2							Note: Noise on the 512 msec clock may be a cause of this problem.
	TCC/Bd	1							
1E41	3262	77							Go to 3262 Printer Entry MAP 0010.
	A-A2S2	20	5001A			PS-200			Carriage check 3 (indicates, on carriage skips beyond one line, any five consecutive carriage advance pulses were not received in 2.7 ms (+0.0, -0.7) to 6.6 ms (0.6, -0.0 MS) while carriage go was active).
	I/O cb1	2							
	TCC/Bd	1							

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									Note: Noise on the 512 msec clock may be a cause of this problem.
1E42	3262	77							Go to 3262 Printer Entry MAP 0010.
	A-A2S2	20	5001A			PS-200			Carriage check 1 (indicates that the third (last) carriage advance pulse after the fall of carriage go was not received by the controller in 10 ms (+/- 0.5MS)).
	I/O cb1	2							Note: Noise on the 512 msec clock may be a cause of this problem.
	TCC/Bd	1							
1E43	3262	77							Go to 3262 Printer Entry MAP 0010.
	A-A2S2	20	5001A			PS-200			Forms jam (no forms movement was detected in the last 10 to 22 lines of print).
	I/O cb1	2							
	TCC/Bd	1							
1E49			0105A						Undefined error (the system printer error determination procedure (EDP) could not identify the failure). Go to MAP 0105, Entry Point A.
1E50	3262	95							Go to 3262 Printer Entry MAP 0010. End of forms.
	A-A2S2	3	5001A			PS-200			
	I/O cb1	1							
	TCC/Bd	1							
1E51	3262	80							
	A-A2T2	10	5001A			PT-200			Printer is not ready.
	A-A2R2	5				PR-205			May be the result of the
	A-A2S2	3				PS-200			stop reset key being
	I/O cb1	1							pressed.
	TCC/Bd	1							



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1E52	3262 A-A2S2 I/O cb1	95 4 1	5001A		PS-200	Go to 3262 Printer Entry MAP 0010. 3262 CE switch is on.
1E53	3262 A-A2S2 I/O cb1 TCC/Bd	95 3 1 1	5001A		PS-200	Go to 3262 Printer Entry MAP 0010. Print unit open or belt cover not in place.
1E61	Program error	99				Program error occurred while using the 3262 printer. Not valid IOB command, command modifier or data length is not valid. This error indicates that the command or command modifier field of the printer IOB contains a not valid value or that the data length field contains a value larger than 256. See the functions reference manual.
1E62	Program error	99				Program error occurred while using the 3262 printer. Data stream reject. The printer control unit has detected a procedural problem with the data stream it received. See the functions reference manual.
1E80	3262 A-A2S2 I/O cb1 TCC/Bd	90 5 4 1	5001A		PS-200	Go to 3262 Printer Entry MAP 0010. Cable interlock check has occurred. Either the cables are installed correctly or the system contains the

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						hardware for a 3262 printer but the printer is not attached to the system.
1E81	3262	95				Go to 3262 Printer Entry MAP 0010.
	A-A2S2	3	5001A		PS-200	Thermal check 1 (thermal switch opened in belt motor, hammer unit fan, hammer unit or power supply).
	I/O cb1	1				
	TCC/Bd	1				
1E82	3262	95				Go to 3262 Printer Entry MAP 0010.
	A-A2S2	3	5001A		PS-200	Thermal check 2 (indicates a circuit protector in the 3262 has tripped because of an overcurrent condition).
	I/O cb1	1				
	TCC/Bd	1				
1E83	3262	85				Go to 3262 Printer Entry MAP 0010.
	A-A2T2	10	5004A		PT-200	Printer not powered on.
	A-A2S2	3			PS-200	Power is turned off or power failure has occurred.
	I/O cb1	1				
	TCC/Bd	1				
1E84	A-A2T2	49	5001A		PT-200	Data transfer check (this error occurs when either data is lost or too much data is transferred between the input/output control handler (IOCH) and the printer control unit).
	A-A2S2	49			PS-200	
	Program Error	2				
1E89	3262	95				Go to 3262 Printer Entry MAP 0100.
	A-A2S2	3	5001A		PS-200	Ribbon check (the ribbon is stuck or is moving too slow or both ribbon reverse switches are on).
	I/O cb1	1				
	TCC/Bd	1				

\*\*\*\* The following codes are a result of an error during IPL and \*\*

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\*\*\*\* will give you an indication at what step the failure occurred.\*  
 \*\*\*\* Refer to MIM section 01-300 for procedures to read out system\*\*  
 \*\*\*\* status. \*\*

2000				01-300	CSIPL load 1 start - \$IPL
2001				01-300	Initialize page tables - \$IPL.
2002				01-300	Initialize main storage - \$IPL.
2010				01-300	CSIPL load 2 start - \$IPLML.
2012				01-300	First disk operation - \$IPLML.
2013				01-300	First disk operation complete - \$IPLML.
2014				01-300	Process unit definition table - \$IPLML.
2016				01-300	Call \$IPLLOG for logging tables - \$IPLML.
2018				01-300	Start communications controller load - \$IPLML.
2019					IPL the LAN controller. Problem due to loading controller code or the communications hardware. Run auto-configure/customize. Re-IPL with wraps.
201A				01-300	DSA controller load - \$IPLML.
201C				01-300	Work station controller load - \$IPLML.

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201E					01-300	3262 controller load - \$IPLML.
2020					01-300	MSIPL from disk - mode 0 - \$IPLML.
2021					01-300	Disk operation - read bootstrap - \$IPLML.
2030					01-300	MSIPL from diskette - mode F - \$IPLML.
2031					01-300	Diskette operation - abort - \$IPLML.
2032					01-300	Diskette operation - orient - \$IPLML.
2033					01-300	Diskette operation - select - \$IPLML.
2034					01-300	Diskette operation - recalibrate - \$IPLML.
2035					01-300	Diskette operation - read valid - \$IPLML.
2036					01-300	Diskette operation - read bootstrap - \$IPLML.
2040					01-300	Start logging table initialization - \$IPLML.
240F	Program					System Entry not in system UDT. Run Configure.
24CC	Custmiz Program					Diskette I/O error.
24E1	Custmiz Program					The Personal Computer DSKT01 is not in the microcode level table.
24E2	Custmiz					The DSKT01 part number

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	Program									does not match the part number in the microcode level table.
24E3	Custmiz									The RPQ table in the microcode level table is full.
24E4	Custmiz									The first message library is not on the diskette.
24E5	Custmiz									The second message library is not on the diskette.
24E6	Custmiz									The third message library is not on the diskette.
24E7	Custmiz									The fourth message library is not on the diskette.
24E8	Custmiz									The display code is not on the microcode diskette.
24E9	Custmiz									The PARM table is not on the microcode diskette.
24EA	Custmiz									An invalid screen number was specified or screen not found.
24EE	Custmiz									An invalid message number was specified or message not found.
24EF	Custmiz									Diskette I/O error.
24FF	Custmiz									Program error. See Setting Up Your Computer Manual.
***** CSP/C (Stage 3 CSP) *****										
2600	A-A1N2	45	0105A							Error during cycle steal to communications controller or SLCA.
	A-A1K2/	45								
	A-A3P2/									

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	A-A3S2						
	X-Over	1					
2601	A-A1N2	45	0105A				I/O time out, P check or address not valid during data communications.
	A-A3S2	45					
	X-Over	1					
2602	A-A1N2	45	0105A				I/O time out, P check or address not valid during data communications.
	A-A1K2/	45					
	A-A3P2						
	X-Over	1					
2603	A-A1N2	45	0105A				Error during cycle steal to/from 6157 tape DSA.
	A-A1E2	45					Error during I/O instruction.
	X-Over	1					
2605	A-A1N2	45	0105A				Error during cycle steal to/from DSA or controller.
	A-A2E2/	45					Error during I/O instruction.
	A-A2J2						
	X-Over	1					
2606	A-A1N2	45	0105A				Error during cycle steal to communications controller.
	A-A1K2/						
	A-A3P2	45					
	X-Over	1					
2607	A-A1N2	45					Error during cycle steal or I/O instruction to/from 2nd work station controller.
	A-A3S2/	45					
	A-A3T2						
	X-Over	1					
2609	A-A1N2	45					Error during cycle steal or I/O instruction to/from LAN adapter card.
	A-A1L2	45					
	X-Over	1					
260A	A-A1N2	45	0105A				Error during cycle steal with work station controller or error during I/O instruction.
	A-A1H2/	45					
	A-A1J2						
	X-Over	1					
260F							See MAP 0301 for more information on this system

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							reference code.
2611							See MAP 0301 for more information on this system reference code.
2616							See MAP 0301 for more information on this system reference code.
261C	A-A1N2	30	0105A				Error during cycle steal between MSP and communications controller.
	A-A1P2	30					
	A-A3S2	30					
	X-Over	1					
261E	A-A1N2	30	0105A				Error during cycle steal between MSP and DSA or controller.
	A-A1P2	30					
	A-A1E2/	30					
	A-A2E2/						
	A-A2J2						
	X-Over	1					
2620	A-A1N2	30	0105A				Error during cycle steal between MSP and work station controller.
	A-A1P2	30					
	A-A1H2	30					
	X-Over	1					
2621	A-A1N2	30	0105A				Error during cycle steal between MSP and 6157 tape DSA.
	A-A1P2	30					
	A-A1E2	30					
	X-Over	1					
2622	A-A1N2	30	0105A				Error during cycle steal between MSP and comm controller.
	A-A1P2	30					
	A-A1K2/	30					
	A-A3P2/						
	A-A3S2						
	X-Over	1					
2623	A-A1N2	30					Error during cycle steal between MSP and 2nd work station controller.
	A-A1P2	30					
	A-A3S2	30					
	X-Over	1					

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2624	A-A1N2	30								Error during cycle steal between MSP and LAN adapter.
	A-A1P2	30								
	A-A1L2	30								
	X-Over	1								
-----										
2625										See MAP 0301 for more information on this system reference code.
-----										
262A										See MAP 0301 for more information on this system reference code.
-----										
262F										See MAP 0301 for more information on this system reference code.
-----										
2630	A-A1N2	33	0105A							3 second time out during cycle steal.
	A-A1P2	33								
	MS	33								
-----										
2635	A-A1N2	90	0105A							Storage check or LSR check.
	A-A1M2	5								
-----										
263A	A-A1N2	45	0105A							Error during I/O instruction to 1255/MCR.
	A-A2N2	45								
	X-Over	1								
-----										
263F	A-A1N2	45	0105A							Error during I/O instruction to 3262 printer.
	A-A2S2/	45								
	A-A2T2/									
	A-A2R2									
	X-Over	1								
-----										
2640	A-A1N2	48	0105A							DBO P check during I/O instruction to SLCA.
	A-A1K2	48								
	X-Over	1								
-----										
2645	A-A1N2	15	0105A							Error during SILSB on interrupt level 4.
	A-A2N2	15								
	A-A1H2	15								
	A-A1E2/	15								
	A-A2E2/									
	A-A2J2									

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	A-A2S2/	15					
	A-A2R2						
	A-A2S2	15					
	X-Over	1					
264A	A-A1N2	30	0105A				Error during SILSB on interrupt level 2.
	A-A1L2	30					
	A-A1K2/	30					
	A-A3P2/						
	A-A3S2						
	X-Over	1					
264F	A-A1N2	30	0105A				DPO P check during SILSB.
	A-A1K2	30					
	A-A2N2	30					
	X-Over	1					
2650	A-A1N2	75	0105A				3 or 4 second time out.
	A-A1P2	10					
	A-A1M2	10					
2670	A-A1N2	80					The data written to storage had bad parity.
	A-A1P2	13					
	A-A1U2	6					
	A-A1 Bd	1					
2671	A-A1N2	81					The data written to storage had bad parity.
	A-A1P2	13					
	A-A1T2	6					
2672	A-A1N2	81					The data written to storage had bad parity.
	A-A1P2	13					
	A-A1S2	6					
2673	A-A1N2	76					The data written in to storage had bad parity.
	A-A1P2	13					
	A-A1R2	10					
2674	A-A1N2	47					The data written to stg had bad parity.
	A-A1U2	43					
	A-A1P2	9					

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	A-A1 Bd	1				
2675	A-A1N2	47				Main stg write parity check.
	A-A1T2	43				
	A-A1P2	10				
2676	A-A1N2	47				The data written to storage had bad parity.
	A-A1P2	46				
	A-A1S2	6				
	A-A1 Bd	1				
2677	A-A1N2	47				The data written to storage had bad parity.
	A-A1P2	47				
	A-A1R2	6				
2678	A-A1N2	76				The data written to stg had bad parity.
	A-A1P2	13				
	A-A1U2	10				
	A-A1 Bd	1				
2679	A-A1N2	76				Main stg write parity chk.
	A-A1P2	13				
	A-A1T2	10				
267A	A-A1N2	76				The data written in to storage had bad parity.
	A-A1P2	13				
	A-A1S2	10				
267C	A-A1N2	81				The data written to storage had bad parity.
	A-A1P2	13				
	A-A1R2	6				
2680	A-A1P2	61				Main storage write parity check.
	A-A1U2	38				
	A-A1N2	1				
2681	A-A1P2	61				Main storage write parity check.
	A-A1T2	38				
	A-A1N2	1				

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2682	A-A1P2	61				Main storage write parity check.
	A-A1S2	38				
	A-A1N2	1				
2683	A-A1R2	50				Main stg write parity check.
	A-A1P2	49				
	A-A1N2	1				
2684	A-A1U2	87				Main stg write parity check.
	A-A1P2	12				
	A-A1N2	1				
2685	A-A1T2	87				Main stg write parity check.
	A-A1P2	12				
	A-A1N2	1				
2686	A-A1S2	87				Main storage write parity check.
	A-A1P2	12				
	A-A1N2	1				
2687	A-A1R2	87				Main storage write parity check.
	A-A1P2	12				
	A-A1N2	1				
2688	A-A1U2	50				Main stg write parity check.
	A-A1P2	49				
	A-A1N2	1				
2689	A-A1T2	50				Main stg write parity check.
	A-A1P2	49				
	A-A1N2	1				
268A	A-A1S2	50				Main stg write parity check.
	A-A1P2	49				
	A-A1N2	1				
268C	A-A1R2	38				Main storage write parity check.
	A-A1P2	60				
	A-A1N2	1				

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26E8	A-A1N2 A-A1P2	59 41				Wrong MSP error.
26EA	A-A1N2 A-A1P2	94 6				MSP Parity Check.
26Eb	A-A1N2 A-A1P2	60 40				Wrong MSP error during cycle steal.
26EC	A-A1N2 A-A1P2	60 40				MSP Parity Check during cycle steal.
26F0	A-A1N2 A-A1M2	90 5	0105A			A CSP error occurred. REIPL the system then look up the new SRC in ERAP CSP error history table and use MAP 0113, 0114, 0115, and 0116 for definition of new SRC.
26F1	MS A-A1P2	75 20	0105A			MSP error: main storage access timeout. REIPL the system then run the new SRC in ERAP CSP error history table and use MAP 0113, 0114, 0115, and 0116 for definition of new SRC.
26F2	A-A1P2 MS A-A1N2	80 15 2	0105A			MSP error: parity checks. REIPL the system then run the new SRC in ERAP CSP error history table and use MAP 0113, 0114, 0115, and 0116 for definition of new SRC.
26F3	A-A1N2 A-A1E2/ A-A2E2/ A-A2J2 A-A1H2	10 10  10	0105A			A channel error occurred. REIPL the system then run the new SRC in ERAP CSP error history table and use MAP 0113, 0114,

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	A-A1K2/	10				0115, and 0116 for definition of new SRC. Check for bad Channel terminator card. Only one will be present at either A1B5, A2U3, A3U3 or A3U4. Terminator cd P/N 4234073. If SLCA is installed on the system, ensure that it is configured as SLCA-E (feature 2550).
	A-A3S2/					
	A-A3P2					
	A-A2N2	10				
	A-A2S2/	10				
	A-A2T2					
	A-A1J2	5				
	X-Over	5				
	A-A1L2	1				
26F4	A-A1N2	90	0105A			A control storage ECC occurred. REIPL the system then run the new SRC in ERAP CSP error history table and use MAP 0113, 0114, 0115, and 0116 for definition of new SRC.
	A-A1M2	5				
26F5	A-A1N2	75	0101C			Interrupt level 1 occurred for an unknown device. REIPL the system then run the new SRC in ERAP CSP error history table and use MAP 0113, 0114, 0115, and 0116 for definition of new SRC.
26F6	A-A1N2	45	0101C			Interrupt level 2 occurred for an unknown device. Could be any card on the channel bus causing the problem. REIPL the system then run the new SRC in ERAP CSP error history table and use MAP 0113, 0114, 0115, and 0116 for definition of new SRC.
	A-A1K2/	45				
	A-A3S2/					
	A-A3P2					
26F7	A-A1N2	75	0101C			Interrupt level 3 occurred for an unknown device.

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						REIPL the system then run the new SRC in ERAP CSP error history table and use MAP 0113, 0114, 0115, and 0116 for definition of new SRC.
26F8	A-A1N2	10	0101C			Interrupt level 4 occurred for an unknown device. REIPL the system then run the new SRC in ERAP CSP error history table and use MAP 0113, 0114, 0115, and 0116 for definition of new SRC.
	A-A1H2	10				
	A-A3S2	10				
	A-A1E2/	10				
	A-A2E2/					
	A-A2J2					
	A-A2N2	10				
	A-A2S2	10				
26FF	A-A1N2	10	0301			See MAP 0301 for more information on this system reference code.
	A-A1P2	10				
	MS	10				
	A-A1M2	10				
	A-A1Z2	10				
	X-Over	5				
*****30XX Hardware errors detected by software*****						
3006			9500A or 9700A			Permanent disk error. Dump could not be taken. Go to MAP 9500,A (21ED) or 9700,A (10SR).
300b			9500A or 9700A			Permanent disk error. Dump could not be taken. Go to MAP 9500,A (21ED) or 9700,A (10SR).
301E			9500A or 9700A			Permanent disk error. Dump could not be taken. Go to MAP 9500,A (21ED) or 9700,A (10SR).
3032			9500A or 9700A			Permanent disk error. Dump could not be taken. Go to MAP 9500,A (21ED) or 9700,A (10SR).

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3035			9500A or 9700A			Permanent disk error. Dump could not be taken. Go to MAP 9500,A (21ED) or 9700,A (10SR).
3039	A-A1H2 A-A1J2	75 20	7001A			First work station controller error occurred. See MAP 7001.
3043			9500A or 9700A			Permanent disk error. Dump could not be taken. Go to MAP 9500,A (21ED) or 9700,A (10SR).
3049			7001AA			Work station error. System dump could not be taken because of an error with work station controller.
304A			0179A			Diskette error during system dump.
304C			9500A or 9700A 7100AA or 9700A			Permanent disk error or work station error. Go to MAP 9500,A (21ED) or 9700,A (10SR). If the disk MAP does not identify a failure, then go to work station MAP 7001,A.
304d						Permanent tape error during system dump. The dump could not be taken.
3069	A-A3S2 A-A3T2	75 20	7001A			Second work station controller error occurred. See MAP 7001.
30CA			9500A or 9700A			Permanent disk error. Dump could not be taken. Go to MAP 9500,A (21ED) or 9700,A (10SR).

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30F1			9500A or 9700A				Permanent disk error during condense of system library. Go to MAP 9500,A (21ED) or 9700,A (10SR).
***** Sungate *****							
4204	A-A1U2	60					Reipl, if No failure replace FRU(s). If failure go to 0301A
	A-A1P2	30					
	A-A1N2	5					
4205	A-A1T2	50					Reipl, if No failure replace FRU(s). If failure go to 0301A
	A-A1P2	40					
	A-A1N2	5					
4206	A-A1S2	50					Reipl, if No failure replace FRU(s). If failure go to 0301A
	A-A1P2	40					
	A-A1N2	5					
4207	A-A1R2	50					Reipl, if No failure replace FRU(s). If failure go to 031A
	A-A1P2	40					
	A-A1N2	5					
4208	A-A1U2	50					Reipl, if No failure replace FRU(s). If failure go to 0301A
	A-A1P2	40					
	A-A1N2	5					
4209	A-A1T2	50					Reipl, if No failure replace FRU(s). If failure go to 0301A
	A-A1P2	40					
	A-A1N2	5					
420A	A-A1S2	50					Reipl, if No failure replace FRU(s). If failure go to 0301A
	A-A1P2	40					
	A-A1N2	5					
420B	A-A1R2	50					Reipl, if No failure replace FRU(s). If failure go to 0301A
	A-A1P2	40					
	A-A1N2	5					
420E	A-A1P2	60					Reipl, if No failure replace FRU(s). If failure go to 0301A
	A-A1N2	35					



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421C	A-A1P2	90						Re-IPL, if no failure replace FRU(s) If failure go to 0301A.
	A-A1N2	8						
422C	A-A1P2	90						Re-IPL, if no failure replace FRU(s) If failure go to 0301A.
	A-A1N2	8						
422E	A-A1P2	80						Reipl, if No failure replace FRU(s). If failure go to 0301A
	A-A1N2	15						
424C	A-A1P2	70						Reipl, if No failure replace FRU(s). If failure go to 0301A
	A-A1N2	25						
426C	A-A1P2	90						Re-IPL, if no failure replace FRU(s) If failure go to 0301A.
	A-A1N2	8						
426D	A-A1P2	50						Re-IPL, if no failure replace FRU(s) If failure go to 0301A.
	A-A1U2	40						
	A-A1N2	8						
4284	A-A1U2	60						A1U2 is a 1 meg card
	A-A1P2	30						
	A-A1N2	5						
4285	A-A1T2	60						A1T2 is a 1 meg card
	A-A1P2	30						
	A-A1N2	5						
4286	A-A1S2	60						A1S2 is a 1 meg card
	A-A1P2	30						
	A-A1N2	5						
4287	A-A1R2	60						A1R2 is a 1 meg card
	A-A1P2	30						
	A-A1N2	5						
4288	A-A1U2	60						A1U2 is a 2 meg card
	A-A1P2	30						
	A-A1N2	5						

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4289	A-A1T2	60					A1T2 is a 2 meg card
	A-A1P2	30					
	A-A1N2	5					
-----							
428A	A-A1S2	60					A1S2 is a 2 meg memory
	A-A1P2	30					card
	A-A1N2	5					
-----							
428B	A-A1R2	60					A1R2 is a 2 meg memory
	A-A1P2	30					card
	A-A1N2	5					
-----							
428C	A-A1P2	60					Reipl, if No failure
	A-A1N2	35					replace FRU(s). If failure
							go to 0301A
-----							
429C	A-A1P2	90					Reipl, if No failure
	A-A1N2	7					replace FRU(s). If failure
							go to 0301A
-----							
42FF	A-A1P2	38					Unexpected error. Go
	A-A1N2	38					to 0312 to interpret. The
	MS	20					MSP check. R2, S2, T2,
							may not be present.
-----							
4321	A-A1P2	40					R2, S2, T2 may not be
	A-A1U2	13					present.
	A-A1T2	13					
	A-A1S2	13					
	A-A1R2	13					
	A-A1N2	8					
-----							
4E00	PC	75					TR Adapter Card
T0	PC	24					Cables or Access Unit
4EEF	Program	01					Run OLPD.
							Call for software service.
-----							
4F10	PC	60					LAN Attch Adapter or
T0							PC failing
4F1F	A-A1L2	30					LAN Adapter card.
	A-A1B2	09					LAN Controller cable
	Program	01					Run OLPD.
							Call for software service

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MAP 0115-40

System Reference Codes

MAP 0115-41

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4F20	A-A1L2	70					Cable parity error
	PC	15					- Run OLPD
	A-A1B2	10					
	PC	05					
4F21	A-A1L2	85					PC Hardware Interface Hung
	PC	05					- Run OLPD
	A-A1B2	05					
	PC	05					
4F22	PC	80					PC has Reset
	A-A1B2	05					- Run OLPD
	PC	05					
	PC	05					
	A-A1L2	05					
4F23	A-A1L2	90					LAN Adapter card Memory
	PC	05					Error
	A-A1B2	05					- Run OLPD
4F24	Program	99					Default in error return
							Call for Software Service
4F25	PC	90					Turn PC Power Switch to
	PC	02					ON position if off, else
	PC	02					- Run OLPD
	A-A1L2	02					
	A-A1B2	01					
4F26	PC	95					PC has BATS failure
	PC	02					- Run OLPD
	A-A1L2	01					
	A-A1B2	01					
4F27	PC	75					PC not responding
	A-A1L2	20					- Run OLPD
	A-A1B2	04					
	PC	01					
4F28	PC	75					PC Port error

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MAP 0115-41



System Reference Codes

MAP 0115-43

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4F32	PC	70					Interrupt Handshaking Test on LAN feature Failed - Run OLPD.
	A-A1L2	20					
	A-A1B2	05					
	PC	05					
4F40	Program	99					Failure in OLPD Program - Call for software serv.
4F41	A-A1L2	99					LAN Adapter not configured Present or Failing.
4F42	A-A1L2	99					Failing LAN Adapter Card or LAN Controller Cable.
	A-A1B2	1					
4F44	PC	99					PC Failure - OLPD can not isolate the problem Disconnect LAN cable from PC, Load and run the following diagnostics from your PC: - PC Diagnostics - LAN Attch Adapter Diagn - Token Ring Adpt Diagn
4F45	Program	99					#LANLIB not found or Diagn not in #LANLIB - Reapply LAN Communication Program product.
4F48	PC	70					Token Ring Adapter Cable or token Ring Adapter card Failure
	PC	29					
4F49	PC	99					Token Ring Adapter Cable failure.
4F4A	PC	99					Access Unit Failure
4F4b	PC	99					Token Ring Patch Cable Failure
4F61	PC	70					LAN Attachment adapter failure - Run OLPD.
	PC	10					

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MAP 0115-43

**System Reference Codes**

MAP 0115-44

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	A-A1L2	10					
	A-A1B2	10					
4F62	PC	40					Interface to expansion failure - Run OLPD.
	A-A1L2	40					
	PC	10					
	A-A1B2	10					
4F63	PC	99					Adapter not present or configuration wrong or adapter failing on Line 9
4F64	PC	99					Adapter not present or Configuration wrong or Adapter failing on Line 10
4F70	PC	98					Token Ring Adapter failure on Line 9 or PC Planar Board Failure.
	PC	01					
4F74	PC	98					Token Ring Adapter on Line 10 or PC Planar Board failing.
	PC	01					
4F86	PC	75					TR Adapter Card
TO	PC	24					Cables or Access Unit
4F99	Program	01					Run OLPD Call for Software service.
4FF0	A-A1L2	98					LAN Adapter Card or LAN Controller Cable failing.
	A-A1B2	01					
4FF1	A-A1L2	99					LAN Adapter Card or LAN Controller Cable failing.
	A-A1B2	01					
4FF2	PC	98					LAN Attch Adapter Card or PC Planar Failing.
	PC	01					
***** Customer set up reference codes *****							
5010							An error occurred on the display station address X on port Y. Options are: 0 to bypass 1 to retry

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MAP 0115-44

System Reference Codes

MAP 0115-45

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5020											The work station printer address X on port Y is not ready. Options are: 0 to bypass 1 to retry
5021											The work station printer address X on port Y is out of forms. Options are: 0 to bypass 1 to retry
5022											The work station printer address X on port Y has a forms check. Options are: 0 to bypass 1 to retry
5023											The work station printer address X on port Y has a graphic check. Options are: 0 to bypass 1 to retry
5024											The work station printer address X on port Y has a print check. Options are: 0 to bypass 1 to retry
5025											The work station printer address X on port Y has a machine check. Options are: 0 to bypass 1 to retry
5026											The work station printer address X on port Y has a paper jam. Options are: 0 to bypass 1 to retry
5027											The work station printer

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MAP 0115-45

System Reference Codes

MAP 0115-46

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						address X on port Y has a ribbon jam. Options are: 0 to bypass 1 to retry
5028						The work station printer address X on port Y has an unrecoverable error. Options are: 0 to bypass
5030						A communications error has occurred on line N. Options are: 0 to bypass 1 to retry
50CE						The UDT is bad or 3262 I/O not found on disk.
5099						CSU pass 2 driver module not found on diskette in slot 1 or diskette I/O error.
51CE						MSP error , bad diskette PMSDIF not found , bad diskette.
52CE						MSP error , bad diskette PMSDIF not found , bad diskette.
5360						CSU pass 1 completed correctly.
5b4F			9900A		99-110	An 8809 tape drive has a cable connection problem.
5b50	T Unit	60				Reset command failed to reset interface (power/ cable) during 6157 CSU. Tape drive is not powered on or the drive is not responding. * Run tape OLPD. Reseat
	A-A1D2	30				
	A-A1A3	5				

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MAP 0115-46



System Reference Codes

MAP 0115-47

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					A-A1D2, top card connector and internal cable A-A1A3 before replacing FRUs.
5b7C			9900A	99-110	An 8809 tape drive is not ready
5b81	T Unit Media	90 5			No tape cartridge or cartridge not in place during 6157 CSU.
5bA6	T Unit Media	90 5	9900A	99-110	8809 file protect ring is not installed or 6157 tape file protected on write operation during CSU
5bCE			9900A	99-110	An 8809 tape drive has an unrecoverable error.
5bd3			9900A	99-110	An 8809 tape drive has a media problem.
5bF4	T Unit A-A1D2 A-A1A3	80 10 5			6157 tape unit has an unrecoverable error during CSU. * Run tape OLPD. Reseat A-A1D2, top card connector and internal cable A-A1A3 before replacing FRUs.
5bFd	T Unit Media	90 5			Cartridge not write protected during 6157 CSU.
5bFe	A-A1A3 A-A1D2 A-A1E2	60 25 10			6157 tape subsystem internal to 5360 has a problem during CSU. Reseat wrap connector and retry. * Run tape OLPD. Reseat A-A1D2, top card connector and internal cable A-A1A3 before replacing FRUs.
5bFF			9900A	99-110	8809 tape drive 1 is not

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MAP 0115-47

5360 Systems Unit

							installed.
5CCE							The system console has an error.
5E43							The 3262 printer has a forms jam. Options are: 0 to bypass 1 to retry
5E50							The 3262 printer is out of forms. Options are: 0 to bypass 1 to retry
5E51							The 3262 printer is not ready. Options are: 0 to bypass 1 to retry
5E80							The 3262 printer has a cable interlock check. Options are: 0 to bypass 1 to retry
5E83							The 3262 printer is not powered on. Options are: 0 to bypass 1 to retry
5E87							The 3262 printer unit or belt cover is not in place. The only option is: 0 to bypass
5ECE							The 3262 printer has an unrecoverable error. Options are: 0 to bypass 1 to retry
***** Remote Displays 71xx *****							
7151	Program						Work station error code program problem.

System Reference Codes

MAP 0115-49

5360 Systems Unit

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						SNA function not supported  (work station display).
7154						Undefined remote error  (work station display).  Run communications problem  determination.
7156	Program					Work station error code  program problem.  SNA state error  (work station display).
7157	Program					Work station error code  program problem.  SNA RH usage error  (work station display).
7158	Program					Work station error code  program problem.  SNA path error  (work station display).
7163	Program					Work station error code  program problem.  Undefined data link  protocol (DLP) detected  error  (work station display).
7164	Program					Work station error code  program problem.  Request-on-line received  (work station display).
7165						DLP time-out condition  (work station display).  Run communications problem  determination.
7166						Severe line degradation  (work station display).  Run communications problem  determination.

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MAP 0115-49

System Reference Codes

MAP 0115-50

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7167	Program					Work station error code program problem. Protocol violation (work station display).
7168						Permanent DLP hardware error (work station display). Run communications problem determination.
7169						SNA request not valid (work station display). Run communications problem determination.
716A	Program					Work station error code program problem. DLP communication error (work station display).
716b						DLP communication reset (work station display). Run communications problem determination.
***** Remote Printers 72xx *****						
7251	Program					Work station error code program problem. SNA function not supported (work station printer).
7254						Undefined remote error (work station printer). Run communications problem determination.
7255	Program					Work station error code program problem. Change direction sent to printer (work station printer).

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MAP 0115-50

**System Reference Codes**

MAP 0115-51

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7256	Program					Work station error code program problem. SNA state error (work station printer).
7257	Program					Work station error code program problem. SNA RH usage error (work station printer).
7258	Program					Work station error code program problem. SNA path error (work station printer).
7263	Program					Work station error code program problem. Undefined data link protocol (DLP) detected error (work station printer).
7264	Program					Work station error code program problem. Request-on-line received (work station printer).
7265						DLP time-out condition (work station printer). Run communications problem determination.
7266						Severe line degradation (work station printer). Run communications problem determination.
7267	Program					Work station error code program problem. Protocol violation (work station printer).
7268						Permanent DLP hardware error

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MAP 0115-51



System Reference Codes

MAP 0115-53

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					(work station display).
8105	Program				Work station error code program problem. Invalid start field length (work station display).
8106	Program				Work station error code program problem. Invalid start field address (work station display).
8107	Program				Work station error code program problem. A restore command has been sent to the wrong display or data not completed has been sent with the restore command (work station display).
8108	Program				Work station error code program problem. An attempt has been made to define an input field that extends passed the end of the display screen (work station display).
8109	Program				Work station error code program problem. Format table overflow. Too many input fields have been defined (work station display).
8110	Program				Work station error code program problem. An attempt has been made to write data past the end of the display screen (work station display).

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MAP 0115-53

System Reference Codes

MAP 0115-54

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8111	Program					Work station error code program problem. Start of header length does not equal 3 (work station display).
8112	Program					Work station error code program problem. Roll parameter error. Invalid data following a roll command has been detected (work station display).
8113	Program					Work station error code program problem. Missing or invalid start field attribute or field format word (work station display).
8114	Program					Work station error code program problem. Invalid load display station memory command (work station display).
8115	Program					Work station error code program problem. Invalid clear unit alternate parameter (work station display).
8116	Program					Work station error code program problem. Invalid structured field length (work station display).
8117	Program					Work station error code program problem. Invalid structured field class or type value (work station display).

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MAP 0115-54



System Reference Codes

MAP 0115-55

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8118	Program					Work station error code program problem. Invalid structured field parameter value (work station display).
8127	Program					Work station error code program problem. Invalid data stream command in WP mode. (work station display)
8128	Program					Work station error code program problem. Invalid data stream command in DP mode.
8129	Program					Work station error code program problem. Command not allowed to display with unlocked Keyboard.
8130	Program					Work station error code program problem. Command not valid for specified display (IGC (EPOCH), or data entry or Katakana Keyboard)
8131	Program					Work station error code program problem. Invalid field length. An invalid input field length has been detected on the display screen (work station display).
8132	Program					Work station error code program problem. Resequencing error. There is an invalid resequencing field control

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MAP 0115-55

System Reference Codes

MAP 0115-56

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						word in the format table  (work station display).
8134	Program					Work station error code  program problem.  Shift character omission  or misplacement in an IGC  open field  (work station display).
8142	Program					Work station error code  program problem.  Invalid data stream byte  count of a request to  configure a new work  station  (work station display).
8143	Program					Work station error code  program problem.  Invalid work station unit  address  (work station display).
8144	Program					Work station error code  program problem.  Unit address already  configured  (work station display).
8145	Program					Work station error code  program problem.  Attempt to configure too  many work stations  (work station display).
8160	Program					Work station error code  program problem.  System detects a value  greater than 4096 in the  length field of a display  station IOB  (work station display).

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MAP 0115-56

System Reference Codes

MAP 0115-57

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8161	Program					Work station error code program problem. IOB command modifier is invalid (work station display).
8162	Program					Work station error code program problem. The work station controller has detected a value of zero (0) in the length field of a display station IOB (work station display).
8163	Program					Work station error code program problem. Invalid unit address (work station display).
8164	Program					Work station error code program problem. Byte count for read fields not equal to number of field positions (work station display).
8166	Program					Work station error code program problem. Display station in error mode (work station display).
8167	Program					Work station error code program problem. Display station not in session (work station display).
8169	Program					Work station error code program problem. Not ready because of operator error mode or system request mode

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MAP 0115-57

System Reference Codes

MAP 0115-58

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					(work station display).
8170	Program				Work station error code program problem. Read issued to unlocked keyboard (work station display).
***** Work Station Printer 82xx *****					
8220	Program				Work station error code program problem. Invalid byte count specified for Read Text Screen command.
8221	Program				Work station error code program problem. Invalid WSCF Command in WP mode.
8222	Program				Work station error code program problem. Invalid WSCF Command in DP mode.
8260	Program				Work station error code program problem. Value greater than 4096 in length field of printer IOB (work station printer).
8261	Program				Work station error code program problem. IOB modifier is invalid (work station printer).
8262	Program				Work station error code program problem. Invalid byte count in printer IOB (work station printer).
8263	Program				Work station error code

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MAP 0115-58

System Reference Codes

MAP 0115-59

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						program problem. Invalid unit address in unit address field of printer IOB (work station printer).
8265	Program					Work station error code program problem. Print buffer not available (work station printer).
8266	Program					Work station error code program problem. Printer in error mode (work station printer).
8267	Program					Work station error code program problem. Printer not in session (work station printer).
8269	Program					Work station error code program problem. Cancel request (work station printer).
8305	Program					Work station error code program problem. State error. Command not allowed in Operator Error mode or System Reset mode.

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MAP 0115-59

**System Reference Codes**

MAP 0116-1

**5360 Systems Unit**

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ENTRY POINTS

-----			
FROM	ENTER THIS MAP		
-----			
MAP	ENTRY	PAGE	STEP
NUMBER	POINT	NUMBER	NUMBER
-----			
0101	A	1	001
0199	A	1	001

001 :  
(Entry Point A)

**MAP DESCRIPTION:**

This MAP contains the system reference codes A000 through ffff. Any code not listed in this MAP, MAP 0113, 0114, 0115 or 0118 are not valid.

**START CONDITIONS:**

A failure has occurred and has resulted in a 4 character code being logged or displayed. Each code represents a condition of failure.  
- Use the MAP reference to isolate the failing FRU or FRU group.

**Multiple Unit:**

- If a SRC points to two or more units (such as Drive A, Drive B), use ERAP to determine the failing unit.

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Reference Code Index for MAP 0116

SRC	Device or Function	Device MAP Entry
Axxx	DCP program	(See AXXX code)
bxxx	Work station Controller	7001,AA
C00x	DCP Wrap Errors	0105,A
C1xx	6157 Tape Wraps	None
C18x	DSA 3 Wrap	None
C20x	MSP Bad 2K Pages	1100,A
C3xx	Data Storage Controller	9900,A
C4xx	Sungate	
C5xx	1255 MCR	4100,A
C6xx	Work station Controller MAP	7001,A
C8xx	Communications Wrap	3003,A
C9xx	21ED Disk Wrap	9500,A
CAxx	10SR Disk Wrap	9700,A
Cbxx	8809 Tape	9900,A
CCxx	Work station Attachment Wrap	7001,A
Cd8x	DSA-1 Wrap	0179,A - 9500,A - 9700,A
Cdxx	Diskette Wrap	0179,A
CExx	3262 Printer Wrap	5001,A
CFxx	Unexpected Wrap	(see CFxx code)
dxxx	MSP Load Diagnostics	11xx,A
Exxx	CSP Instruction Diagnostics	0105,A - 0121,A
Fxxx	CSIPL Diagnostics	0105,A

System Reference Codes

MAP 0116-3

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\*\*\*\*\* DCP Diagnostic Reference Codes \*\*\*\*\*

A000		0101C			Unexpected error. Re-customize and/or use a new set of diskettes. If problem persists, initialize disk A and re-customize.
A001					Unexpected error. Re-customize and/or use a new set of diskettes. If problem persists, initialize disk A and re-customize.
A1A0		9500A or 9700A			Disk I/O error. Press CSP Start to retry. Run System Customize from DCP Menu with 'CECE' entered on the panel display. MAP Ref if 21ED=9500, if 10SR=9700.
A1b0					Disk IOB program error.
A1C1		0101A			Work station I/O data stream error. Ensure that the console was powered on. Ensure that system console address is 0. Attempt a different diskette or go to MAP 0101.
A1C2	A-A1J2 A-A1H2 A-A1V4 WS cb1	50 40 3 3	7001,AA		Work station I/O hardware error. FIRST, Go to MAP 7001. The problem could also be a bad cable on PORT 0. See cable checkout procedure in the w/s attachment MIM.



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					<p> SECOND, If the problem  occurred during IPL, go to  MAP 0190 before replacing  any FRUs. This SRC can  come up if the UDT is not  configured correctly (see  MIM 01-290). If this SRC  comes up during operations  replace FRUs indicated,  then go to MAP 0190 only  if the FRUs did not fix  the problem.  TWINAX/IBM cabling system.</p>
A1C3	Mcode A-A1Q2 A-A1H2	79 10 10	0190A		<p> Work station functional  microcode not found.  Could be a failing  diskette or misconfigured  disk or diskette.  If there have not been any  changes made to your disk  or diskette, you may have  a hardware error. Go to  MAP 0190, A.</p>
A1E0			0101C		<p> Printer I/O error.  DCP, system hardware or  diskette is bad; disk or  diskette is misconfigured.  Press CSP Start to retry.  If the error occurred  during IPL then re-IPL  using 0000, FFF0, or FF00  to bypass the error.</p>
A2A0			0101C		<p> Disk I/O module not found  on IPL diskette.  Bad diskette media. Go to  MAP 0101, Entry Point C.</p>
A2E0			0101C		<p> Printer I/O module not  found on IPL diskette.  Bad diskette media. Go to  MAP 0101, Entry Point C.</p>

System Reference Codes

MAP 0116-5

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AF90			0101C			Disk error while loading SSP microcode. Bad or misconfigured diskette.
AF91	A-A1C2/ A-A2C2	80	9500A or 9700A			Disk drive A error while loading SSP microcode. MAP ref if 21ED=9500, if 10SR=9700.
AF92	A-A1E2/ A-A2E2	80	9500A or 9700A			Disk drive error while loading SSP microcode. MAP ref if 21ED=9500, if 10SR=9700.
AF93	A-A1C2/ A-A2C2	80	9500A or 9700A			Disk drive A error while loading SSP microcode. MAP ref if 21ED=9500, if 10SR=9700.
***** Unexpected interrupt -- AFFX *****						
AFF2			0101C			Unexpected interrupt on Interrupt Level 2. Devices on this interrupt: Data Communication Adapt (MIM 30-205) CSP (Interval Timer) (MIM 10-200)
AFF4			0101C			Unexpected interrupt on Interrupt Level 4. Attempt to restart the current operation. Devices on this interrupt: Work Station Controller (MIM 70-210) System Printer Adapter (MIM 50-210) Data Storage Attachment - 1 (MIM 90-210) Data Storage Attachment - 2 (MIM 90-210)

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MAP 0116-5

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							Data Storage Controller (MIM 90-210)
***** Work station controller bxxx *****							
**** These bxxx codes are for information purposes ****							
b1xx							Work station TU select stop code (XX = the last two characters of the TU that just ran) see the work station attachment MIM 70-420 to interpret the result bytes in work registers WR6 and WR7.
b2xx							The work station MDI MAP stop code (XX = the MAP ID) go to hard copy MAP and entry point indicated in work registers WR4 and WR5 (L) respectively. To read out WR4 and WR5: Select mode 1. Enter 0004. Press Display Output and record contents. Enter 0005. Press Display Output and record contents.
b421							Normal halt for work station MDIs. Press CSP Start to continue running work station MDIs.
b500							The selected work station MDI MAP was not found. Check for proper diskette or damaged diskette.
b501							The selected work station load module was not found. Check for

System Reference Codes

MAP 0116-7

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						proper or damaged diskette
b502						The selected work station TU was not found. Verify the TU selected is valid or check diskette.
b503						The selected work station is not configured or may be configured wrongly. Use the system configure utility (01-290) to configure the work station.
***** DCP Wrap Errors *****						
C000			0105A			Default wrap supervisor halt code; RelPL.
C001						Wrap module not found. Misconfigured or bad disk or diskette. Check UDT for correct configuration (see MIM 01-290).
C002						System reference code module ID (WFE00) not found in wrap address table. Misconfigured or bad disk or diskette.
C003						Primary system reference code table entry missing. Misconfigured or bad disk or diskette.
C004						Secondary system reference code table entry missing. Misconfigured or bad disk or diskette.
C005			0101C			Proc Check while sensing

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MAP 0116-7

**System Reference Codes**

MAP 0116-8

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							file configuration.  Channel or file attachment  error.
C181	A-A1E2	95					Test buffer reset command  Run OLPD.
	A-A1D2	1					
C182	A-A1E2	95					Test DLC address load.  Run OLPD.
	A-A1D2	1					
C183	A-A1E2	95					Buffer latch test.  Run OLPD.
	A-A1D2	1					
C184	A-A1E2	90					Enable DLC interrupt.  Run OLPD.
	A-A1D2	5					
C185	A-A1E2	90					Disable DLC interrupt.  Run OLPD.
	A-A1D2	5					
C186	A-A1E2	95					Enable/disable timer test.  Run OLPD.
	A-A1D2	1					
C187	A-A1E2	90					Buffer 1 addressing test.  Run OLPD.
	A-A1D2	5					
C188	A-A1E2	90					Buffer 2 addressing test.  Run OLPD.
	A-A1D2	5					
C189	A-A1E2	85					Wrap buffer 1 to buffer 2.  Run OLPD.
	A-A1D2	10					
C18A	A-A1E2	85					Wrap buffer 1 to buffer 2.  Run OLPD.
	A-A1D2	10					
C18b	A-A1E2	85					Buffer 1 scan test.  Run OLPD.
	A-A1D2	10					
C18C	A-A1E2	85					Buffer 2 scan test.  Run OLPD.
	A-A1D2	10					
C18d	A-A1E2	85					Base cycle steal test.  Run OLPD.
	A-A1D2	10					
C18F	A-A1E2	85					Extended wrap.

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	A-A1D2	10					Run OLPD.
C1F0	A-A1D2 A-A1E2	85 10					Adapter error * Reseat A-A1D2 and top card connector. Run OLPD
C1F1	A-A1A3	95					Cable error * Reseat wrap connector and internal cable A-A1A3 before replacing FRU.
C1F5	A-A1D2 A-A1E2	50 45					Tactical bus * Reseat A-A1D2 and top card connector before replacing FRU.
C1F6	A-A1D2 A-A1A3	60 35					Tape Interface * Reseat wrap connector and internal cable A-A1A3 before replacing FRU.
C1F7	Program						Undetermined return code from tape adapter during IPL wraps.
***** MSP C2xx *****							
C201	MS MS A-A1Q2 A-A1P2	90 5 5	1100A				Bad 2Kb main storage page. Use MAP 1100 to find the bad card. Possible configuration error. MS = main storage
***** Data Storage Controller C3xx *****							
C301	A-A2J2	99	9900A	6101	90-110	TJ200	If you have wrap error SRCs for disk (C9xx or CAxx) or diskette (Cdxx) along with the tape SRC (Cbxx), perform the activity defined for the disk/diskette SRCs first.
C302	A-A2J2	99	9900A	6102	90-110	TJ200	If you have wrap error SRCs for disk (C9xx or

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							CAxx) or diskette (Cdxx)  along with the tape SRC  (Cbxx), perform the  activity defined for the  disk/diskette SRCs first.
C303	A-A2J2	99	9900A	6103	90-110	TJ200	If you have wrap error  SRCs for disk (C9xx or  CAxx) or diskette (Cdxx)  along with the tape SRC  (Cbxx), perform the  activity defined for the  disk/diskette SRCs first.
C304	A-A2J2	99	9900A	6104	90-110	TJ200	If you have wrap error  SRCs for disk (C9xx or  CAxx) or diskette (Cdxx)  along with the tape SRC  (Cbxx), perform the  activity defined for the  disk/diskette SRCs first.
C306	A-A2J2 A-A2K2	80 20	9900A	6106	90-110	TJ200	If you have wrap error  SRCs for disk (C9xx or  CAxx) or diskette (Cdxx)  along with the tape SRC  (Cbxx), perform the  activity defined for the  disk/diskette SRCs first.
C308	A-A2J2 A-A2L2	94 5	9900A	6108	90-110	TJ200	If you have wrap error  SRCs for disk (C9xx or  CAxx) or diskette (Cdxx)  along with the tape SRC  (Cbxx), perform the  activity defined for the  disk/diskette SRCs first.
C309	A-A2J2	99	9900A	6109	90-110	TJ200	If you have wrap error  SRCs for disk (C9xx or  CAxx) or diskette (Cdxx)  along with the tape SRC  (Cbxx), perform the  activity defined for the

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							disk/diskette SRCs first.
C310	A-A2J2 A-A2K2	80 20	9900A	6110	90-110	TJ200	If you have wrap error SRCs for disk (C9xx or CAxx) or diskette (Cdxx) along with the tape SRC (Cbxx), perform the activity defined for the disk/diskette SRCs first.
C311	A-A2J2	99	9900A	6111	90-110	TJ200	If you have wrap error SRCs for disk (C9xx or CAxx) or diskette (Cdxx) along with the tape SRC (Cbxx), perform the activity defined for the disk/diskette SRCs first.
C312	A-A2J2	99	9900A	6112	90-110	TJ200	If you have wrap error SRCs for disk (C9xx or CAxx) or diskette (Cdxx) along with the tape SRC (Cbxx), perform the activity defined for the disk/diskette SRCs first.
C313	A-A2J2	99	9900A	6113	90-110	TJ200	If you have wrap error SRCs for disk (C9xx or CAxx) or diskette (Cdxx) along with the tape SRC (Cbxx), perform the activity defined for the disk/diskette SRCs first.
C314	A-A2J2	99	9900A	6114	90-110	TJ200	If you have wrap error SRCs for disk (C9xx or CAxx) or diskette (Cdxx) along with the tape SRC (Cbxx), perform the activity defined for the disk/diskette SRCs first.
C315	A-A2J2	99	9900A	6115	90-110	TJ200	If you have wrap error SRCs for disk (C9xx or

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							CAxx) or diskette (Cdxx)  along with the tape SRC  (Cbxx), perform the  activity defined for the  disk/diskette SRCs first.
C316	A-A2J2	99	9900A	6 116	90-110	TJ200	If you have wrap error  SRCs for disk (C9xx or  CAxx) or diskette (Cdxx)  along with the tape SRC  (Cbxx), perform the  activity defined for the  disk/diskette SRCs first.
C317	A-A2J2	99	9900A	6 117	90-110	TJ200	If you have wrap error  SRCs for disk (C9xx or  CAxx) or diskette (Cdxx)  along with the tape SRC  (Cbxx), perform the  activity defined for the  disk/diskette SRCs first.
C318	A-A2J2	99	9900A	6 118	90-110	TJ200	If you have wrap error  SRCs for disk (C9xx or  CAxx) or diskette (Cdxx)  along with the tape SRC  (Cbxx), perform the  activity defined for the  disk/diskette SRCs first.
***** SUNGATE *****							
C401	A-A1L2	98					LAN Adapter Card failed  or LAN Controller Cable  failed during IPL.
	A-A1B2	01					
***** 1255 MCR C5XX *****							
C510	A-A2N2	70	4100A	4001	40-820	MN-200	Initialization
	A-A2P2	25		4002		MP-200	
				4004			
				05-09			
				4012			
				4029			
				4065			

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C511	A-A2P2	70	4100A	4041	40-820	MP-200	ALU
	A-A2N2	25		4042		MN-200	
				43-52			
				4071			
				4072			
				73-90			
			4094				
-----							
C512	A-A2N2	20	4100A	See	40-410	MN-200	Failing TUs: 4010, 14,
	A-A2P2	20		note		MP-200	16-18, 21, 22, 24, 27,
	A-A2Q2	20				MQ-200	67, 68, 69. See TUSELECT
	A-A2L4	10					for description.
	A-A2M4	10					
-----							
C513	A-A2P2	50	4100A	4015	40-820	MP-200	Control.
	A-A2N2	20		4019		MN-200	
	A-A2L4	10		4023			
	A-A2M4	10		4026			
				4034			
				4035			
				36-40			
				4063			
				4064			
			4070				
			4092				
			4093				
-----							
C514	A-A2L4	30	4100A	4011	40-820	ML-200	Memory.
	A-A2M4	30		4030		MM-200	
	A-A2P2	10		4031		MP-200	
	A-A2N2	10		4032		MN-200	
				4033			
				4055			
				4056			
				4057			
-----							
C515	A-A2N2	30	4100A	4013	40-410	MN-200	
	A-A2P2	30		or		MP-200	
	A-A2L4	15		4028			
	A-A2M4	15					
-----							
C516	A-A2N2	30	4100A	See	40-410	MN-200	Failing TUs: 40B1 to 40B9,
	A-A2Q2	30		note		MQ-200	and 40C0 to 40C8
	Cables	30				MQ-900	inclusive.

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							Manufacturing wrap test, requires wrap plug.
C517	A-A2N2 A-A2P2 A-A2L4 A-A2M4	20 20 20 20	4100A	See note	40-410	MN-200 MP-200 ML-200 MM-200	Failing TUs: 4053, 4054, 4055, 4056, 4057. See TUSELECT for description.
C518	A-A2N2 A-A2P2	45 45	4100A	40C9	40-410	MN-200 MP-200	Manufacturing wrap test, requires plug.
C519	A-A2N2	90	4100A	40CA	40-410	MN-200	Requires 1255 wrap plug. See TU-Select Menu for 1255, for description of failing FRU. See 1255 TMM SY24-3555-3.
C51A	1255	95	4100A	40A0 40A2 40A3 40A4 40A5 40A7 40A8	40-410		Requires 1255 wrap plug. See TU-Select Menu for 1255 for description of failing TU.
***** Work station controller C6xx *****							
C601	A-A1H2 A-A3S2 A-A1J2	50 45 2	0101B	6101		WH-100 WJ-100	If FRU replacement does not fix, return to MAP 0101, Entry Point B.
C602	A-A1H2 A-A1J2	95 2	0101B	6102		WH-100 WJ-100	If FRU replacement does not fix, return to MAP 0101, Entry Point B.
C603	A-A1H2 A-A1J2 A-A1L2 A-A1M2	95 2 2 1	0101B	6103		WH-100 WJ-100	If FRU replacement does not fix, return to MAP 0101, Entry Point B.
C604	A-A1H2 A-A1J2 A-A1L2 A-A1M2	95 2 2 1	0101B	6104		WH-100 WJ-100	If FRU replacement doese not fix, return to MAP 0101, Entry Point B.

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C606	A-A1H2	90	0105A	6106		WH-100	If FRU replacement does
	A-A1J2	4				WJ-100	not fix, go to MAP 0105,
	A-A1L2	2					Entry Point A.
	A-A1M2	1					
-----							
C608	A-A1H2	90	0105A	6108		WH-100	If FRU replacement does
	A-A1J2	4				WJ-100	not fix, go to MAP 0105,
	A-A1L2	2					Entry Point A.
	A-A1M2	1					
-----							
C609	A-A1H2	90	0105A	6109		WH-100	If FRU replacement does
	A-A1J2	4				WJ-100	not fix, go to MAP 0105,
	A-A1L2	2					Entry Point A.
	A-A1M2	1					
-----							
C610	A-A1H2	65	0101B		6110	WH-100	If FRU replacement does
	A-A1J2	32				WJ-100	not fix, return to MAP
	A-A1M2	2					0101, Entry Point B.
-----							
C611	A-A1H2	95	0101B		6111	WH-100	If FRU replacement does
	A-A1J2	2				WJ-100	not fix, return to MAP
							0101, Entry Point B.
-----							
C612	A-A1H2	95	0101B		6112	WH-100	If FRU replacement does
	A-A1J2	2				WJ-100	not fix, return to MAP
							0101, Entry Point B.
-----							
C613	A-A1H2	95	0101B		6113	WH-100	If FRU replacement does
	A-A1J2	2				WJ-100	not fix, return to MAP
							0101, Entry Point B.
-----							
C614	A-A1H2	95	0101B		6114	WH-100	If FRU replacement does
	A-A1J2	2				WJ-100	not fix, return to MAP
							0101, Entry Point B.
-----							
C615	A-A1H2	95	0101B		6115	WH-100	If FRU replacement does
	A-A1J2	2				WJ-100	not fix, return to MAP
							0101, Entry Point B.
-----							
C616	A-A1H2	95	0101B	6116			If FRU replacement does
	A-A1J2	2					not fix, return to MAP
							0101, Entry Point B.
-----							
C617	A-A1H2	95	0101B	6117			If FRU replacement does

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	A-A1J2	2							not fix, return to MAP 0101, Entry Point B.
C618	A-A1H2	95	0101B	6118					If FRU replacement does not fix, return to MAP 0101, Entry Point B.
	A-A1J2	2							
C623	A-A1H2	95	0101B					WH-100	If FRU replacement does not fix, return to MAP 0101, Entry Point B.
	A-A1J2	2		6103				WJ-100	
	A-A1N2	2							
C624	A-A1H2	95	0101B					WH-100	If FRU replacement does not fix, return to MAP 0101, Entry Point B.
	A-A1J2	2		6104				WJ-100	
	A-A1N2	2							
C626	A-A1H2	90	0105A	6106				WH-100	If FRU replacement does not fix, go to MAP 0105, Entry Point A.
	A-A1J2	4						WJ-100	
	A-A1N2	2							
C628	A-A1H2	90	0105A	6108				WH-100	If FRU replacement does not fix, go to MAP 0105, Entry Point A.
	A-A1J2	4						WJ-100	
	A-A1N2	2							
C629	A-A1H2	90	0105A	6109				WH-100	If FRU replacement does not fix, go to MAP 0105, Entry Point A.
	A-A1J2	4						WJ-100	
	A-A1N2	2							
C630	A-A1H2	65	0101B					WH-100	If FRU replacement does not fix, return to MAP 0101, Entry Point B.
	A-A1J2	32		6110				WJ-100	
	A-A1N2	2							
C631	A-A3S2	95	0101B						If FRU replacement does not fix, return to MAP 0101, Entry Point B.
	A-A3T2	2							
C632	A-A3S2	95	0101B						If FRU replacement does not fix, return to MAP 0101, Entry Point B.
	A-A3T2	2							
C633	A-A1H2	95							The A1H2 card failed the W/S MDIs.
	A-A1J2	4							
C641	A-A3S2	95	0101B						If FRU replacement does not fix, return to MAP
	A-A3T2	2							

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						0101, Entry Point B
C642	A-A3S2 A-A3T2	95 2	0101B			If FRU replacement does  not fix, return to MAP  0101, Entry Point B.
C643	A-A3S2 A-A3T2	95 2	0101B			If FRU replacement does  not fix, return to MAP  0101, Entry Point B.
C644	A-A3S2 A-A3T2	95 2	0101B			If FRU replacement does  not fix, return to MAP  0101, Entry Point B.
C645	A-A3S2 A-A3T2	95 2	0101B			If FRU replacement does  not fix, return to MAP  0101, Entry Point B.
C646	A-A3S2 A-A3T2	95 2	0101B			If FRU replacement does  not fix, return to MAP  0101, Entry Point B.
C647	A-A3S2 A-A3T2	95 2	0101B			If FRU replacement does  not fix, return to MAP  0101, Entry Point B.
C648	A-A3S2 A-A3T2	95 2	0101B			f FRU replacement does  not fix, return to MAP  0101, Entry Point B.
C653	A-A3S2 A-A3T2 A-A1N2	95 2 2	0101B			If FRU replacement does  not fix, return to MAP  0101, Entry Point B.
C654	A-A3S2 A-A3T2 A-A1N2	95 2 2	0101B			If FRU replacement does  not fix, return to MAP  0101, Entry Point B.
C656	A-A3S2 A-A3T2 A-A1N2	90 4 2	0101B			If FRU replacement does  not fix, go to MAP 0101,  Entry Point B.
C658	A-A3S2 A-A3T2	90 4	0101B			If FRU replacement does  not fix, go to MAP 0101,

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	A-A1N2	2						Entry Point B.
C659	A-A3S2	90	0101B					If FRU replacement does not fix, go to MAP 0101, Entry Point B.
	A-A3T2	4						
	A-A1N2	2						
C660	A-A3S2	65	0101B					If FRU replacement does not fix, return to MAP 0101, Entry Point B.
	A-A3T2	32						
	A-A1N2	2						
C663	A-A3S2	95						If FRU replacement does not fix, return to MAP 0101, Entry Point B.
	A-A3T2	4						
***** Communications (MLCA) *****								
C800	A-A3S2	90	3003A	T6101	30-700	SS-300		Bus coupler TUs to comm controller failed. Ignore any other C8XX SRCs for TU
	A-A1N2	5		T6102		SR-300		Select MLCA controller option.
	X-Over	5		T6103				NOTE: A 32KW or 64KW controller is required for X.21 Switched or X.25.
				T6104				
***** Communications (SLCA) *****								
C801	A-A1K2	90	3003A	T8108	30-700	ST-300		Internal wrap of control output register.
	A-A1G2	5						
	A-A1N2	5						
C802	A-A1K2	90	3003A	T8106	30-700	ST-300		If new installation, check device adr switches on comm adapter card (SW 5 & 6) should be on/off). Also ensure that SLCA (feature 2500) was installed, if SLCA-E (feature 2550) was installed, then the configuration is incorrect.
	X-Over	10						
C803	A-A1K2	90	3003A	T8108	30-700	ST-300		Internal wrap of control output register.
	A-A1G2	5						
	A-A1L2	5						

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C804	A-A1K2 A-A1L2 A-A1B3/ A-A2U3	75 20 3	3003A	T8109	30-700	ST-300 SU-310 SU-310	Timer test failed, system clocks possibly bad to comm board. A-A1B3/A-A2U3 terminates system clock lines. A-A1L2 is source for system clocks.
C805	A-A1K2	95	3003A	T8112	30-700	ST-300	If new installation, check NRZ switch (SW 4) on A-A1K2 card must be set to off.
C807	A-A1B2 A-A1K2	90 10	3003A	T8119	30-630 30-700	ST-300 SU-300	If new installation, Verify configuration is ok. MDI TU T8119 runs only when internal clock is configured.
C808	A-A1K2 A-A1L2	90 5	3003A	see cmnt	30-700	ST-300	MDI TU T8107, T8110 through T8118 and T8120 through T8128 can cause this SRC.
C809	A-A1G2 A-A1K2	95 5	3003A	T8141	36-XXX	SM-300	X.21 (SW) internal wrap TU failed.
C80b	A-A1K2 A-A1N2 A-A1B3/ A-A2U3	75 20 3	3003A	T8109	30-700	ST-300 SU-310 SU-310	Timer test failed, system clocks possibly bad to comm board. A-A1B3/A-A2U3 terminates system clock lines. A-A1N2 is source for system clocks.
C80C	A-A1G2 A-A1K2	95 5	3003A	T8146	33-XXX	SM-300	1200 I.M. internal wrap TU failed.
C80d	A-A1G2 A-A1K2	95 5	3003A	T8149	34-XXX	SM-300	DDSA internal wrap TU failed.
C80E	A-A1K2 A-A1N2	90 5	3003A	see cmnt	30-700	ST-300	MDI TU T8107, T8110 through T8118 and T8120 through T8128 can cause

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							this SRC.
-----							
***** Communications (MLCA Line 1) *****							
C810	A-A3S2	90	3003A	T6101	30-700	SS-300	Bus coupler TUs to
	A-A1L2	5		T6102		SR-300	communications controller
	X-Over	5		T6103			failed. Ignore any other
				T6104			C8xx SRCs.
							For TU Select, select MLCA
							controller option.
							NOTE: A 32KW or 64KW
							controller is required
							for X.21 Switched or X.25.
-----							
C811	A-A3S2	95	3003A	see	30-700	SS-300	Controller TUs to
				cmnt			communications controller
							failed TUs 6106, 6108
							through 610C, 610F, 6110
							through 6116 and 6118.
							Ignore any other C8xx SRCs
							NOTE: A 32KW or 64KW
							controller is required
							for X.21 Switched or X.25.
-----							
C812	A-A3R2	95	3003A	T8106	30-700	SR-300	If all comm lines fail
	A-A3S2	5					with C8x2, suspect A-A3S2
							(50 %).
							NOTE: A 32KW or 64KW
							controller is required
							for X.21 Switched or X.25.
-----							
C813	A-A3R2	95	3003A	T8108	30-700	SR-300	Internal wrap of control
	A-A3M2	5					output register.
-----							
C814	A-A3R2	75	3003A	T8109	30-700	SR-300	Timer test failed. If only
	A-A1L2	20				SU-310	one line fails with C8x4,
	A-A3U3	3					rule out A-A1L2, A-A3U3,
	X-Over	2					channel cables. This is
							common logic to all MLCA
							lines.
-----							
C815	A-A3R2	95	3003A	T8112	30-700	SR-300	If new installation, check
							NRZ switch (SW 4) on
							A-A3R2 card. Must be off.
-----							

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C817	A-A3U2 A-A3R2	90 10	3003A	T8119	30-630 30-700	SU-300	If new installation, verify configuration is ok. MDI TU T8119 runs only when configured for internal clock.
C818	A-A3R2	95	3003A	see cmnt	30-700	ST-300	MDI TU T8107, T8110 through T8118 and T8120 through T8128 can cause this SRC.
C819	A-A3M2 A-A3R2	95 5	3003A	T8141	36-XXX	SM-300	X.21 (SW) internal wrap TU failed.
C81b	A-A3R2 A-A1N2 A-A3U3 X-Over	75 20 3 2	3003A	T8109	30-700	SR-300 SU-310	Timer test failed. If only one line fails with C8x4, rule out A-A1N2, A-A3U3, channel cables. This is common logic to all MLCA lines.
C81c	A-A3M2 A-A3R2	95 5	3003A	T8146	33-XXX	SM-300	1200 I.M. internal wrap TU failed.
C81d	A-A3M2 A-A3R2	95 5	3003A	T8149	34-XXX	SM-300	DDSA internal wrap TU failed.
***** Communications (MLCA Line 2) *****							
C822	A-A3Q2 A-A3S2	95 5	3003A	T8106	30-700	SQ-300	If all comm lines fail with C8x2, suspect A-A3S2 (50 %). NOTE: A 32KW or 64KW controller is required for X.21 Switched or X.25.
C823	A-A3Q2 A-A3L2	95 5	3003A	T8108	30-700	SQ-300	Internal wrap of control output register.
C824	A-A3Q2 A-A1L2 A-A3U3 X-Over	75 20 3 2	3003A	T8109	30-700	SQ-300 SU-310	Timer test failed. If only one line fails with C8x4, rule out A-A1L2, A-A3U3, channel cables. This is common logic to all MLCA lines.

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C825	A-A3Q2	95	3003A	T8112	30-700	SQ-300	If new installation, check NRZ switch (SW 4) on A-A3Q2 card. Must be off.
C827	A-A3U2 A-A3Q2	90 10	3003A	T8119	30-630 30-700	SU-300	If new installation, verify configuration is ok. MDI TU T8119 runs only when configured for internal clock.
C828	A-A3Q2	95	3003A	see cmnt cmnt	30-700	SQ-300	MDI TU T8107, T8110 through T8118 and T8120 through T8128 can cause this SRC.
C829	A-A3L2 A-A3Q2	95 5	3003A	T8141	36-XXX	SL-300	X.21 (SW) internal wrap TU failed.
C82b	A-A3Q2 A-A1N2 A-A3U3 X-Over	75 20 3 2	3003A	T8109	30-700	SQ-300 SN-310	Timer test failed. If only one line fails with C8x4, rule out A-A1N2, A-A3U3, channel cables. This is common logic to all MLCA lines.
C82C	A-A3L2 A-A3Q2	95 5	3003A	T8146	33-XXX	SL-300	1200 I.M. internal wrap TU failed.
C82d	A-A3L2 A-A3Q2	95 5	3003A	T8149	34-XXX	SL-300	DDSA internal wrap TU failed.
***** Communications (MLCA Line 3) *****							
C832	A-A3P2 A-A3S2	95 5	3003A	T8106	30-700	SP-300	If all comm lines fail with C8x2, suspect A-A3S2 (50 %). NOTE: A 32KW or 64KW controller is required for X.21 Switched or X.25.
C833	A-A3P2 A-A3M4	95 5	3003A	T8108	30-700	SP-300	Internal wrap of control output register.
C834	A-A3P2	75	3003A	T8109	30-700	SP-300	Timer test failed. If only

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	A-A1L2	20				SU-310	one line fails with C8x4, rule out A-A1L2, A-A3U3, channel cables. This is common logic to all MLCA lines.
	A-A3U3	3					
	X-Over	2					
C835	A-A3P2	95	3003A	T8112	30-700	SP-300	If new installation, check NRZ switch (SW 4) on A-A3P2 card. Must be off.
C837	A-A3U2	90	3003A	T8119	30-630	SU-300	If new installation, verify configuration is ok. MDI TU T8119 runs only when configured for internal clock.
	A-A3P2	10			30-700		
C838	A-A3P2	95	3003A	see cmnt	30-700	SP-300	MDI TU T8107, T8110 through T8118 and T8120 through T8128 can cause this SRC.
C839	A-A3M4	95	3003A	T8141	36-XXX	SM-350	X.21 (SW) internal wrap TU failed.
	A-A3P2	5					
C83b	A-A3P2	75	3003A	T8109	30-700	SP-300	Timer test failed. If only one line fails with C8x4, rule out A-A1N2, A-A3U3, channel cables. This is common logic to all MLCA lines.
	A-A1N2	20				SN-310	
	A-A3U3	3					
	X-Over	2					
C83c	A-A3M4	95	3003A	T8146	33-XXX	SM-350	1200 I.M. internal wrap TU failed.
	A-A3P2	5					
C83d	A-A3M4	95	3003A	T8149	34-XXX	SM-350	DDSA internal wrap TU failed.
	A-A3P2	5					
***** Communications (MLCA Line 4) *****							
C842	A-A3N2	95	3003A	T8106	30-700	SN-300	If all comm lines fail with C8x2, suspect A-A3S2 (50 %). NOTE: A 32KW or 64KW controller is required for X.21 Switched or X.25.
	A-A3S2	5					

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C843	A-A3N2 A-A3L4	95 5	3003A	T8108	30-700	SN-300	Internal wrap of control output register.
C844	A-A3N2 A-A1L2 A-A3U3 X-Over	75 20 3 2	3003A	T8109	30-700	SN-300 SU-310	Timer test failed. If only one line fails with C8x4, rule out A-A1L2, A-A3U3, channel cables. This is common logic to all MLCA lines.
C845	A-A3N2	95	3003A	T8112	30-700	SN-300	If new installation, check NRZ switch (SW 4) on A-A3N2 card. Must be off.
C847	A-A3U2 A-A3N2	90 10	3003A	T8119	30-630 30-700	SU-300	If new installation, verify configuration is ok. MDI TU T8119 runs only when configured for internal clock.
C848	A-A3N2	95	3003A	see cmnt	30-700	SN-300	MDI TU T8107, T8110 through T8118 and T8120 through T8128 can cause this SRC.
C849	A-A3L4 A-A3N2	95 5	3003A	T8141	36-XXX	SL-350	X.21 (SW) internal wrap TU failed.
C84b	A-A3N2 A-A1N2 A-A3U3 X-Over	75 20 3 2	3003A	T8109	30-700	SN-300 SN-310	Timer test failed. If only one line fails with C8x4, rule out A-A1N2, A-A3U3, channel cables. This is common logic to all MLCA lines.
C84c	A-A3L4 A-A3N2	95 5	3003A	T8146	33-XXX	SL-350	1200 I.M. internal wrap TU failed.
C84d	A-A3L4 A-A3N2	95 5	3003A	T8149	34-XXX	SL-350	DDSA internal wrap TU failed.
***** Communications MLCAEX *****							
C850	A-A1K2	96					EIA/CCITT communications

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	A-A1N2	1				adapter failure SLCA. CSIPL failure.
	A-A1N2					
C851	A-A3F2	96	3000A			EIA/CCITT communications adapter failure line 1. Note: If more than one comm SRC appears, suspect A-A3P2 (50%) or use MAP 3000, entry point A to isolate failing adapter card. CSIPL Failure.
	A-A3P2	1				
C852	A-A3G2	96	3000A			EIA/CCITT communications adapter failure line 2. Note: If more than one comm SRC appears, suspect A-A3P2 (50%) or use MAP 3000, entry point A to isolate failing adapter card. CSIPL Failure.
	A-A3P2	1				
C853	A-A3H2	96	3000A			EIA/CCITT communications adapter failure line 3. Note: If more than one comm SRC appears, suspect A-A3P2 (50%) or use MAP 3000, entry point A to isolate failing adapter card. CSIPL Failure
	A-A3P2	1				
C854	A-A3J2	96	3000A			EIA/CCITT communications adapter failure line 4. Note: If more than one comm SRC appears, suspect A-A3P2 (50%) or use MAP 3000, entry point A to isolate failing adapter card. CSIPL Failure
	A-A3P2	1				
C855	A-A3K2	96	3000A			EIA/CCITT communications adapter failure line 5. Note: If more than one comm SRC appears, suspect A-A3P2 (50%) or use MAP
	A-A3P2	1				

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						3000, entry point A to isolate failing adapter card. CSIPL Failure
C856	A-A3L2 A-A3P2	96 1	3000A			EIA/CCITT communications adapter failure line 6. Note: If more than one comm SRC appears, suspect A-A3P2 (50%) or use MAP 3000, entry point A to isolate failing adapter card. CSIPL Failure
C857	A-A3M2 A-A3P2	96 1	3000A			EIA/CCITT communications adapter failure line 7. Note: If more than one comm SRC appears, suspect A-A3P2 (50%) or use MAP 3000, entry point A to isolate failing adapter card. CSIPL Failure
C858	A-A3N2 A-A3P2	96 1	3000A			EIA/CCITT communications adapter failure line 8. Note: If more than one comm SRC appears, suspect A-A3P2 (50%) or use MAP 3000, entry point A to isolate failing adapter card. CSIPL Failure
C860	A-A1K2 A-A1N2 A-A1N2	96 1				DDSA communications adapter failure SLCA. CSIPL failure.
C861	A-A3F2 A-A3P2	96 1	3000A			DDSA communications adapter failure line 1. Note: If more than one comm SRC appears, suspect A-A3P2 (50%) or use MAP 3000, entry point A to isolate failing adapter card. CSIPL Failure

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C862	A-A3G2 A-A3P2	96 1	3000A						DDSA communications adapter failure line 2. Note: If more than one comm SRC appears, suspect A-A3P2 (50%) or use MAP 3000, entry point A to isolate failing adapter card. CSIPL Failure
C863	A-A3H2 A-A3P2	96 1	3000A						DDSA communications adapter failure line 3. Note: If more than one comm SRC appears, suspect A-A3P2 (50%) or use MAP 3000, entry point A to isolate failing adapter card. CSIPL Failure
C864	A-A3J2 A-A3P2	96 1	3000A						DDSA communications adapter failure line 4. Note: If more than one comm SRC appears, suspect A-A3P2 (50%) or use MAP 3000, entry point A to isolate failing adapter card. CSIPL Failure.
C865	A-A3K2 A-A3P2	96 1	3000A						DDSA communications adapter failure line 5. Note: If more than one comm SRC appears, suspect A-A3P2 (50%) or use MAP 3000, entry point A to isolate failing adapter card. CSIPL Failure
C866	A-A3L2 A-A3P2	96 1	3000A						DDSA communications adapter failure line 6. Note: If more than one comm SRC appears, suspect A-A3P2 (50%) or use MAP 3000, entry point A to isolate failing adapter card. CSIPL Failure.

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C867	A-A3M2 A-A3P2	96 1	3000A							DDSA communications adapter failure line 7. Note: If more than one comm SRC appears, suspect A-A3P2 (50%) or use MAP 3000, entry point A to isolate failing adapter card. CSIPL Failure
C868	A-A3N2 A-A3P2	96 1	3000A							DDSA communications adapter failure line 8. Note: If more than one comm SRC appears, suspect A-A3P2 (50%) or use MAP 3000, entry point A to isolate failing adapter card. CSIPL Failure
C870	A-A1K2 A-A1N2 A-A1N2	96 1								X.21 communications adapter failure SLCA. CSIPL failure.
C871	A-A3F2 A-A3P2	96 1	3000A							X.21 communications adapter failure line 1. Note: If more than one comm SRC appears, suspect A-A3P2 (50%) or use MAP 3000, entry point A to isolate failing adapter card. CSIPL Failure
C872	A-A3G2 A-A3P2	96 1	3000A							X.21 communications adapter failure line 2 Note: If more than one comm SRC appears, suspect A-A3P2 (50%) or use MAP 3000, entry point A to isolate failing adapter card. CSIPL Failure
C873	A-A3H2 A-A3P2	96 1	3000A							X.21 communications adapter failure line 3. Note: If more than one

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						comm SRC appears, suspect A-A3P2 (50%) or use MAP 3000, entry point A to isolate failing adapter card. CS IPL Failure
C874	A-A3J2 A-A3P2	96 1	3000A			X.21 communications adapter failure line 4. Note: If more than one comm SRC appears, suspect A-A3P2 (50%) or use MAP 3000, entry point A to isolate failing adapter card. CS IPL Failure
C875	A-A3K2 A-A3P2	96 1	3000A			X.21 communications adapter failure line 5. Note: If more than one comm SRC appears, suspect A-A3P2 (50%) or use MAP 3000, entry point A to isolate failing adapter card. CS IPL Failure
C876	A-A3L2 A-A3P2	96 1	3000A			X.21 communications adapter failure line 6. Note: If more than one comm SRC appears, suspect A-A3P2 (50%) or use MAP 3000, entry point A to isolate failing adapter card. CS IPL Failure
C877	A-A3M2 A-A3P2	96 1	3000A			X.21 communications adapter failure line 7. Note: If more than one comm SRC appears, suspect A-A3P2 (50%) or use MAP 3000, entry point A to isolate failing adapter card. CS IPL Failure
C878	A-A3N2 A-A3P2	96 1	3000A			X.21 communications adapter failure line 8.

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											Note: If more than one comm SRC appears, suspect A-A3P2 (50%) or use MAP 3000, entry point A to isolate failing adapter card. CS IPL Failure
C881	A-A3F2 A-A3P2	96 1	3000A								V.35 communications adapter failure line 1. Note: If more than one comm SRC appears, suspect A-A3P2 (50%) or use MAP 3000, entry point A to isolate failing adapter card. CS IPL Failure
C882	A-A3G2 A-A3P2	96 1	3000A								V.35 communications adapter failure line 2. Note: If more than one comm SRC appears, suspect A-A3P2 (50%) or use MAP 3000, entry point A to isolate failing adapter card. CS IPL Failure
C883	A-A3H2 A-A3P2	96 1	3000A								V.35 communications adapter failure line 3. Note: If more than one comm SRC appears, suspect A-A3P2 (50%) or use MAP 3000, entry point A to isolate failing adapter card. CS IPL Failure
C884	A-A3J2 A-A3P2	96 1	3000A								V.35 communications adapter failure line 4. Note: If more than one comm SRC appears, suspect A-A3P2 (50%) or use MAP 3000, entry point A to isolate failing adapter card. CS IPL Failure
C885	A-A3K2	96	3000A								V.35 communications

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	A-A3P2	1			adapter failure line 5. Note: If more than one comm SRC appears, suspect A-A3P2 (50%) or use MAP 3000, entry point A to isolate failing adapter card. CSIPL Failure
C886	A-A3L2 A-A3P2	96 1	3000A		V.35 communications adapter failure line 6. Note: If more than one comm SRC appears, suspect A-A3P2 (50%) or use MAP 3000, entry point A to isolate failing adapter card. CSIPL Failure
C887	A-A3M2 A-A3P2	96 1	3000A		V.35 communications adapter failure line 7. Note: If more than one comm SRC appears, suspect A-A3P2 (50%) or use MAP 3000, entry point A to isolate failing adapter card. CSIPL Failure
C888	A-A3N2 A-A3P2	96 1	3000A		V.35 communications adapter failure line 8. Note: If more than one comm SRC appears, suspect A-A3P2 (50%) or use MAP 3000, entry point A to isolate failing adapter card. CSIPL Failure.
C8AA	A-A3P2 A-A1N2 X-Over A-A3U4	90 2 2 2	3000A		Bus coupler TUs to Comm controller failed. Note: CSIPL failure. (Ignore any other C8xx SRCs.)
C8Ab	A-A3P2 A-A3F2/ A-A3G2/	90 8 	3000A		Controller TUs to comm controller failed. (Ignore any other C8xx

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	A-A3H2/						SRCs.) Use MAP 3000 to
	A-A3J2/						isolate the failing
	A-A3K2/						adapter card.
	A-A3L2/						
	A-A3M2/						
	A-A3N2/						
	A-A3U4	1					
-----							
C8AC	A-A3P2	90	3000A				Bus coupler TUs to comm
	A-A1L2	2					controller failed.
	X-Over	2					Note: CS1PL failure
	A-A3U4	2					(Ignore any other C8xx
							SRCs.)
-----							
***** 21ED Disk - C9xx *****							
C911	A-A1C2/	60	9500A	TA202	95-705	GC6XX	Adapter reg wrap failed.
	A-A2C2				95-720		
	A-A1E2/	15					
	A-A2E2						
	A-A1A2/	4					
	A-A2A2						
-----							
C912	A-A1C2/	60	9500A	TA215	95-605	GC6XX	Set interrupt req failed.
	A-A2C2						Run Drive A MDIs.
	A-A1E2/	15					
	A-A2E2						
	A-A1A2/	4					
	A-A2A2						
-----							
C913	A-A1C2/	50	9500A	TA203	95-705	GC6XX	Adapter/Disk interface
	A-A2C2				95-710		wrap failed. Run MDIs for
	F-A1A2	45					Drive A
	A-A1A2/	4					
	A-A2A2						
-----							
C914	Drive A	95	9500A	TA250	95-850	GC6XX	Motor Stop/POR test failed
	A-A1C2/	5					Run Disk MDIs for Drive A.
	A-A2C2						
-----							
C915	F-A1A2	75	9500A	TA251	95-805	GC6XX	Disk interface register
	A-A1C2/	20			95-810		wrap failed. Run MDIs for
	A-A2C2						Drive A.
	A-A1A2/	5					
	A-A2A2						

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C917			9500A	TA253	95-845	GC6XX	Motor Start test failed. Run Disk MDIs for Drive A.
C918			9500A	TA256	95-815	GC6XX	Recalibrate Head 0 failed. Run Disk MDIs for Drive A.
C919			9500A	TA257	95-815	GC6XX	Recalibrate Head 1 failed. Run Disk MDIs for Drive A.
C91A			9500A	TA282	95-820 95-825	GC6XX	Multi-cylinder Seek failed Run Disk MDIs for Drive A.
C91b			9500A	TA283	95-820	GC6XX	Multi-cylinder seek failed Run Disk MDIs for Drive A.
C91C			9500A	TA284	95-820	GC6XX	Diagnostic Seek failed. Run Disk MDIs for Drive A.
C91d			9500A	TA280		GC6XX	Servo Surface Analysis Heads 0 & 1 failed. Run Disk MDIs for Drive A.
C91E			9500A	TA265		GC6XX	Data time interval timing test failed. Run Disk MDIs for Drive A.
C91F			9500A	TA260		GC6XX	Sector/Index timing test failed. Run Disk MDIs for Drive A.
C920	A-A1C2/ A-A2C2 Drive A	60 40	9500A	TA207	95-605	GC6XX	Adapter access test failed Run Disk MDIs for Drive A.
C921	A-A1C2/ A-A2C2 A-A1E2/ A-A2E2 Drive A	80 10 10	9500A	TA206	95-605	GC6XX	Loop VFO test failed. Run Disk MDIs for Drive A.
C922			9500A	TA285	95-830	GC6XX	Read ID all heads failed. Run Disk MDIs for Drive A.

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C923	A-A1C2/	80	9500A	TA208	95-605	GC6XX	Read ID Head 0 failed. Run Disk MDIs for Drive A.
	A-A2C2						
	Drive A	20					
-----							
C924	A-A1C2/	60	9500A	TA209	95-605	GC6XX	Read Data Head 0 failed. Run Disk MDIs for Drive A.
	A-A2C2						
	Drive A	20					
-----							
C925	A-A1C2/	80	9500A	TA20A	95-605	GC6XX	Read Verify failed. Run Disk MDIs for Drive A.
	A-A2C2						
	Drive A	20					
-----							
C926			9500A	TA286	95-835	GC6XX	Write Data all heads failed. Run Disk MDIs for Drive A.
-----							
C927	A-A1C2/	60	9500A	TA20C	95-605	GC6XX	Write Data Head 0 failed. Run Disk MDIs for Drive A.
	A-A2C2						
	Drive A	40					
-----							
C928	A-A1C2/	60	9500A	TA20B	95-605	GC6XX	Read Diagnostic failed. Run Disk MDIs for Drive A.
	A-A2C2						
	Drive A	40					
-----							
C929	A-A1C2/	60	9500A	TA20E	95-605	GC6XX	Correct ECC failed. Run Disk MDIs for Drive A.
	A-A2C2						
	Drive A	40					
-----							
C92A			9500A	TA281		GC6XX	Servo Surface Analysis Heads 2 & 3 failed. Run Disk MDIs for Drive A.
-----							
C931	A-A1D2/	80	9500A	TA202	95-705	GC6XX	Adapter reg wrap failed. Run Disk MDIs for Drive B.
	A-A2D2				90-720		
	A-A1E2/	15					
	A-A2E2						
	A-A1A3/	4					
	A-A2A3						
-----							
C932	A-A1D2/	80	9500A	TA215	95-605	GC6XX	Set interrupt req failed. Run Disk MDIs for Drive B.
	A-A2D2						
	A-A1E2/	15					
	A-A2E2						
	A-A1A3/	4					

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	A-A2A3						
C933	A-A1D2/	50	9500A	TA203	95-705	GC6XX	Adapter/Disk interface wrap failed.
	A-A2D2				95-710		Run Disk MDIs for Drive B.
	G-A1A2	45					
	A-A1A3/	4					
	A-A2A3						
C934	Drive B	95	9500A	TA250	95-850	GC6XX	Motor Stop/POR test failed
	A-A1D2/	5					Run Disk MDIs for Drive B.
	A-A2D2						
C935	G-A1A2	75	9500A	TA251	95-805	GC6XX	Disk interface register wrap failed.
	A-A1D2/	20			95-810		Run Disk MDIs for Drive B.
	A-A2D2						
	A-A1A3/	5					
	A-A2A3						
C937			9500A	TA253	95-845	GC6XX	Motor Start test failed.
							Run Disk MDIs for Drive B.
C938			9500A	TA256	95-815	GC6XX	Recalibrate Head 0 failed.
							Run Disk MDIs for Drive B.
C939			9500A	TA257	95-815	GC6XX	Recalibrate Head 1 failed.
							Run Disk MDIs for Drive B.
C93A			9500A	TA282	95-820	GC6XX	Multitrack Seek 1 failed.
					95-825		Run Disk MDIs for Drive B.
C93b			9500A	TA283	95-820	GC6XX	Multitrack Seek 2 failed.
							Run Disk MDIs for Drive B.
C93C			9500A	TA284	95-820	GC6XX	Diagnostic Seek failed.
							Run Disk MDIs for Drive B.
C93d			9500A	TA280		GC6XX	Servo Surface Analysis Heads 0 & 1 failed.
							Run Disk MDIs for Drive B.
C93E			9500A	TA265		GC6XX	Data time interval timing test failed.
							Run Disk MDIs for Drive B.

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C93F			9500A	TA260		GC6XX	Sector/Index timing test failed. Run Disk MDIs for Drive B.
C940	A-A1D2/ A-A2D2 Drive B	60 40	9500A	TA207	95-605	GC6XX	Adapter access test failed Run Disk MDIs for Drive B.
C941	A-A1D2/ A-A2D2 A-A1E2/ A-A2E2 Drive B	80 10 10	9500A	TA206	95-605	GC6XX	Loop VFO test failed. Run Disk MDIs for Drive B.
C942			9500A	TA285	95-830	GC6XX	Read ID all heads failed. Run Disk MDIs for Drive B.
C943	A-A1D2/ A-A2D2 Drive B	80 20	9500A	TA208	95-605	GC6XX	Read ID Head 0 failed. Run Disk MDIs for Drive B.
C944	A-A1D2/ A-A2D2 Drive B	60 40	9500A	TA209	95-605	GC6XX	Read Data Head 0 failed. Run Disk MDIs for Drive B.
C945	A-A1D2/ A-A2D2 Drive B	80 20	9500A	TA20A	95-605	GC6XX	Read Verify failed. Run Disk MDIs for Drive B.
C946			9500A	TA286	95-835	GC6XX	Write Data all heads failed. Run Disk MDIs for Drive B.
C947	A-A1D2/ A-A2D2 Drive B	60 40	9500A	TA20C	95-605	GC6XX	Write Data Head 0 failed. Run Disk MDIs for Drive B.
C948	A-A1D2/ A-A2D2 Drive B	60 40	9500A	TA20B	95-605	GC6XX	Read Diagnostic failed. Run Disk MDIs for Drive B.
C949	A-A1D2/ A-A2D2 Drive B	60 40	9500A	TA20E	95-605	GC6XX	Correct ECC failed. Run Disk MDIs for Drive B.

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C94A		9500A	TA281	GC6XX	Servo Surface Analysis Heads 2 & 3 failed. Run Disk MDIs for Drive B.
***** 10SR Disk - CAxx *****					
CA10		9700A	TA301		Run MDIs against Drive A.
CA12		9700A	TA306		Run MDIs against Drive A.
CA14		9700A	TA321		Run MDIs against Drive A.
CA16		9700A	TA332		Run MDIs against Drive A.
CA17		9700A	TA333		Run MDIs against Drive A.
CA18		9700A	TA323		Disk configuration may be incorrect, check 10SR model numbers. Run MDIs against Drive A.
CA1A		9700A	TA364		Run MDIs against Drive A.
CA1C		9700A	TA363		Run MDIs against Drive A.
CA1D		9700A	TA352		Disk configuration may be incorrect, check 10SR model numbers. Run MDIs against Drive A.
CA1E		9700A	TA3BD		Run MDIs against Drive A.
CA1F		9700A			Run MDIs against Drive A.
CA20		9700A	TA301		Run MDIs against Drive B.
CA22		9700A	TA306		Run MDIs against Drive B.
CA24		9700A	TA321		Run MDIs against Drive B.
CA26		9700A	TA332		Run MDIs against Drive B.
CA27		9700A	TA333		Run MDIs against Drive B.

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CA28		9700A	TA323			Disk configuration may be incorrect, check 10SR model numbers. Run MDIs against Drive B.
CA2A		9700A	TA364			Run MDIs against Drive B.
CA2C		9700A	TA363			Run MDIs against Drive B.
CA2D		9700A	TA352			Disk configuration may be incorrect, check 10SR model numbers. Run MDIs against Drive B.
CA2E		9700A	TA3BD			Run MDIs against Drive B.
CA2F		9700A				Run MDIs against Drive B.
CA30		9700A	TA301			Run MDIs against Drive C.
CA32		9700A	TA306			Run MDIs against Drive C.
CA34		9700A	TA321			Run MDIs against Drive C.
CA36		9700A	TA332			Run MDIs against Drive C.
CA37		9700A	TA333			Run MDIs against Drive C.
CA38		9700A	TA323			Disk configuration may be incorrect, check 10SR model numbers. Run MDIs against Drive C.
CA3A		9700A	TA364			Run MDIs against Drive C.
CA3C		9700A	TA363			Run MDIs against Drive C.
CA3D		9700A	TA352			Disk configuration may be incorrect, check 10SR model numbers. Run MDIs against Drive C.
CA3E		9700A	TA3BD			Run MDIs against Drive C.

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CA3F			9700A				Run MDIs against Drive C.
CA40			9700A	TA301			Run MDIs against Drive D.
CA42			9700A	TA306			Run MDIs against Drive D.
CA44			9700A	TA321			Run MDIs against Drive D.
CA46			9700A	TA332			Run MDIs against Drive D.
CA47			9700A	TA333			Run MDIs against Drive D.
CA48			9700A	TA323			Disk configuration may be incorrect, check 10SR model numbers. Run MDIs against Drive D.
CA4A			9700A	TA364			Run MDIs against Drive D.
CA4C			9700A	TA363			Run MDIs against Drive D.
CA4D			9700A	TA352			Disk configuration may be incorrect, check 10SR model numbers. Run MDIs against Drive D.
CA4E			9700A	TA3BD			Run MDIs against Drive D.
CA4F			9700A				Run MDIs against Drive D.
***** Tape Cbxx *****							
Cb20	A-A2L2	60	9900A	TB120	99-110	TL200	Check tape attach ID.
	A-A2K2	40				TK200	
Cb21	A-A2L2	50	9900A	TB121	99-110	TL200	Check all latches after
	A-A2K2	30				TK200	reset.
	A-A2U5	10				TL900	
	8809-C2	10					
Cb22	A-A2L2	80	9900A	TB122	99-110	TL200	Check status register.
	A-A2K2	20				TK200	
Cb23	A-A2L2	80	9900A	TB123	99-110	TL200	Check control out
	A-A2K2	20				TK200	register.

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Cb24	A-A2L2	80	9900A	TB124	99-110	TL200	Check tag bus out
	A-A2K2	20				TK200	register.
Cb25	A-A2L2	80	9900A	TB125	99-110	TL200	Check cmd/cntl in
	A-A2K2	20				TK200	register.
Cb26	A-A2L2	80	9900A	TB126	99-110	TL200	Check data out/in
	A-A2K2	20				TK200	register.
Cb27	A-A2L2	99	9900A	TB127	99-110	TL200	Check data out/in
							register.
Cb28	A-A2L2	99	9900A	TB128	99-110	T1200	Degate tape parity check.
Cb29	A-A2L2	80	9900A	TB129	99-110	TL200	Check recycle latch.
	A-A2K2	20				TK200	
Cb2A	A-A2L2	99	9900A	TB12A	99-110	TL200	Seq read chk/xfer inactive
Cb2b	A-A2L2	99	9900A	TB12b	99-110	TL200	Seq read chk/xfer active.
Cb2C	A-A2L2	99	9900A	TB12C	99-110	TL200	Seq read err/xfer active.
Cb2d	A-A2L2	99	9900A	TB12d	99-110	TL200	Seq write chk/xfer
							inactive.
Cb2E	A-A2L2	99	9900A	TB12E	99-110	TL200	Seq write chk/xfer active.
Cb2F	A-A2L2	99	9900A	TB12F	99-110	TL200	Seq write err/xfer active.
Cb31	A-A2L2	80	9900A	TB131	99-110	TL200	Seq alert intr check.
	A-A2K2	10				TK200	
	A-A2J2	5				TJ200	
2b32	A-A2L2	99	9900A	TB132	99-110	TL200	Check end intr check.
Cb33	A-A2L2	99	9900A	TB133	99-110	TL200	Normal end intr check.
Cb34	A-A2L2	99	9900A	TB134	99-110	TL200	Buffer xfer rdy check.
Cb35	A-A2L2	99	9900A	TB135	99-110	TL200	Data in parity intr check.
Cb36	A-A2L2	99	9900A	TB136	99-110	TL200	Data out parity intr check

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Cb81	A-A2K2	90	9900A	T6501	90-110	TK200	Test buffer reset command.
	A-A2J2	7			99-110	TJ200	
	A-A2L2	1				TL200	
	A-A2E2	1					
Cb82	A-A2K2	90	9900A	T6507	90-110	TK200	Test DLC address load.
	A-A2J2	7			99-110	TJ200	
	A-A2L2	1				TL200	
	A-A2E2	1					
Cb83	A-A2K2	90	9900A	T6509	90-110	TK200	Buffer latch test.
	A-A2J2	7			99-110	TJ200	
	A-A2L2	1				TL200	
	A-A2E2	1					
Cb84	A-A2K2	80	9900A	T6510	90-110	TK200	Enable DLC interrupt.
	A-A2J2	10			99-110	TJ200	
	A-A2L2	5				TL200	
	A-A2E2	1					
	8809-C2	1					
Cb85	A-A2K2	80	9900A	T6511	90-110	TK200	Disable DLC interrupt.
	A-A2J2	10			99-110	TJ200	
	A-A2L2	5				TL200	
	A-A2E2	1					
Cb86	A-A2K2	90	9900A	T6512	90-110	TK200	Enable/disable timer test.
	A-A2J2	7			99-110	TJ200	
	A-A2L2	1				TL200	
	A-A2E2	1					
Cb87	A-A2K2	80	9900A	T6524	90-110	TK200	Buffer #1 addressing test.
	A-A2J2	10			99-110	TJ200	
	A-A2L2	5				TL200	
	A-A2E2	1					
Cb88	A-A2K2	80	9900A	T6525	90-110	TK200	Buffer #2 addressing test.
	A-A2J2	10			99-110	TJ200	
	A-A2L2	5				TL200	
	A-A2E2	1					
Cb89	A-A2K2	75	9900A	T6531	90-110	TK200	Wrap buffer 1 to buffer 2.
	A-A2J2	10			99-110	TJ200	

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	A-A2L2	10				TL200	
	A-A2E2	1					
Cb8A	A-A2K2	75	9900A	T6534	90-110	TK200	Wrap buffer 1 to buffer 2.
	A-A2J2	10			99-110	TJ200	
	A-A2L2	10				TL200	
	A-A2E2	1					
Cb8b	A-A2K2	75	9900A	T6538	90-110	TK200	Buffer 1 scan test.
	A-A2J2	10			99-110	TJ200	
	A-A2L2	10				TL200	
	A-A2E2	1					
Cb8C	A-A2K2	75	9900A	T6539	90-110	TK200	Buffer 2 scan test.
	A-A2J2	10			99-110	TJ200	
	A-A2L2	10				TL200	
	A-A2E2	1					
Cb8d	A-A2J2	80	9900A	T6540	90-110	TJ200	Base cycle steal test.
	A-A2K2	15			99-110	TK200	
	A-A2E2	2				TL200	
	A-A2L2	1					
Cb8F	A-A2K2	75	9900A		90-110	TK200	Extended wrap.
	A-A2J2	10			99-110	TJ200	
	A-A2L2	10				TL200	
	A-A2E2	1					
***** Work station attachment CCxx *****							
CC2A	A-A1J2	90	0101B			WJ-100	Replace FRUs first.
	A-A1H2	6				WH-100	If FRUs fail to fix, go
				C23A			to MAP 0101, Entry Point
	A-A1N2	1					B.
CC35	A-A1J2	60	0101B			WJ-100	Replace FRUs first.
	A-A1H2	37				WH-100	If FRUs fail to fix, go to
				C235			MAP 0101, Entry Point B.
CC36	A-A1J2	60	0101B			WJ-100	Replace FRUs first.
	A-A1H2	37				WH-100	If FRUs fail to fix, go to
				C236			MAP 0101, Entry Point B.
CC37	A-A1J2	95	0101B			WJ-100	Replace FRUs first.
	A-A1H2	2		C237		WH-100	If FRUs fail to fix, go to

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				Entry point B.		
CC41	A-A1J2 Display WS cb1 A-A1H2 A-A1V4	60 25 8 2 2	0101B	C241	WJ-100 WH-100	The work station display can cause this. Verify that the display is powered on. Then replace FRUs. If FRUs fail to fix the problem, go to MAP 0101, Entry Point B. Twinax/IBM cabling system
CC42	A-A1J2 A-A1H2	80 12	0101B	C242	WJ-100 WH-100	Replace FRUs first. If FRUs fail to fix, go to MAP 0101, Entry Point B.
CC43	A-A1J2 A-A1H2	85 12	0101B	C243	WJ-100 WH-100	Replace FRUs first. If FRUs fail to fix, go to MAP 0101, Entry Point B.
CC44	A-A1J2 Display WS cb1 A-A1H2 A-A1V4	50 35 8 2 2	0101B	C244	WJ-100 WH-100	The work station display can also cause this. Verify that the display is powered on before replacing FRUs. Replace FRUs first. If FRUs fail to fix the problem go to MAP 0101, Entry Point B. Twinax/IBM cabling system
CC46	A-A1J2 A-A1H2	50 47	0101B	C246	WJ-100 WH-100	Replace FRUs first. If FRUs fail to fix, go to MAP 0101, Entry Point B.
CC47	A-A1H2	97				
CC48	A-A1H2	99				The 1st Work Station controller storage size does not match the configuration.
CC4F	A-A1J2 A-A1V4 WS cb1 Display	48 17 20 10	0101B		WJ-100	Port 1 problem. Replace FRUs first. If FRUs fail to fix, go to MAP 0101, Entry Point B.

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	A-A1H2	2			WH-100	Twinax/IBM cabling system
CC5F	A-A1J2	48	0101B		WJ-100	Port 2 problem. Replace FRUs first. If FRUs fail to fix, go to MAP 0101, Entry Point B.
	A-A1V4	17				
	WS cb1	20				
	Display	10				
	A-A1H2	2			WH-100	Twinax/IBM Cabling system
CC6F	A-A1J2	48	0101B		WJ-100	Port 3 problem. Replace FRUs first. If FRUs fail to fix, go to MAP 0101, Entry Point B.
	A-A1V4	17				
	WS cb1	20				
	Display	10				
	A-A1H2	2			WH-100	Twinax/IBM cabling system.
CC7F	A-A1J2	48	0101B		WJ-100	Port 4 problem. Replace FRUs first. If FRUs fail to fix, go to MAP 0101, Entry Point B.
	A-A1V4	17				
	WS cb1	20				
	Display	10				
	A-A1H2	2			WH-100	Twinax/IBM cabling system
CC8F	A-A1J2	48	0101B		WJ-100	Port 5 problem. Replace FRUs first. If FRUs fail to fix, go to MAP 0101, Entry Point B.
	A-A1V4	17				
	WS cb1	20				
	Display	10				
	A-A1H2	2			WH-100	Twinax/IBM cabling system
CCA5	A-A3T2	60	0101B			Replace FRUs first. If FRUs fail to fix, go to MAP 0101, Entry Point B.
	A-A3S2	37				
CCA6	A-A3T2	60	0101B			Replace FRUs first. If FRUs fail to fix, go to MAP 0101, Entry Point B.
	A-A3S2	37				
CCA7	A-A3T2	95	0101B			Replace FRUs first. If FRUs fail to fix, go to MAP 0101, Entry Point B.
	A-A3S2	2				
CCA8	A-A3T2	90	0101B			Replace FRUs first. If FRUs fail to fix, go to MAP 0101, Entry Point B.
	A-A3S2	7				
CCA9	A-A3T2	90	0101B			Replace FRUs first. If FRUs fail to fix, go to
	A-A3S2	7				

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CCb2	A-A3T2	80	0101B			Replace FRUs first. If FRUs fail to fix, go to MAP 0101, Entry Point B.
	A-A3S2	12				
CCb3	A-A3T2	85	0101B			Replace FRUs first. If FRUs fail to fix, go to MAP 0101, Entry Point B.
	A-A3S2	12				
CCb4	Display	35				The work station display on port 6 address 0 can cause this. Verify that the display is powered on. Then replace FRUs. If FRUs fail to fix the problem, go to MAP 0101, Entry Point B. Twinax/IBM cabling system.
	A-A3T2	50				
	WS cb1	8				
	A-A3S2	2				
	A-A3V4	2				
CCb6	A-A3T2	50	0101B			Replace FRUs first. If FRUs fail to fix, go to MAP 0101, Entry Point B.
	A-A3S2	47				
CCbF	A-A3T2	48	0101B			Port 7 problem. Replace FRUs first. If FRUs fail to fix, go to MAP 0101, Entry Point B. Twinax/IBM cabling system.
	WS cb1	20				
	A-A3V4	17				
	Display	10				
	A-A3S2	2				
CCCF	A-A3T2	48	0101B			Port 8 problem. Replace FRUs first. If FRUs fail to fix, go to MAP 0101, Entry Point B. Twinax/IBM cabling system.
	WS cb1	20				
	A-A3V4	17				
	Display	10				
	A-A3S2	2				
CCdF	A-A3T2	48	0101B			Port 9 problem. Replace FRUs first. If FRUs fail to fix, go to MAP 0101, Entry Point B. Twinax/IBM cabling system.
	WS cb1	20				
	A-A3V4	17				
	Display	10				
	A-A3S2	2				
CCEf	A-A3T2	48	0101B			Port 10 problem. Replace FRUs first. If FRUs fail to fix, go to MAP 0101, Entry Point B.
	WS cb1	20				
	A-A3V4	17				
	Display	10				

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						then ReIPL. If SRC was obtained from Mode 0 CSIPL then go to MAP 0179, A. If SRC was obtained from Mode E CSIPL then go to MAP 9500,A (21ED) or MAP 9700,A (10SR). Replace FRU(s) listed only if MAPs do not isolate failure.
Cd82	A-A1E2/ A-A2E2 A-A2J2 A-A2K2	98 4 4	0179A 9500A 9700A	T6507	90-210	C9xx(21ED), CAxx(10SR), and Cd0x - Cd1x (Diskette) system reference codes, if present, should be used before using this code. If SRC was obtained from Mode 0 CSIPL then go to MAP 0179, A. If SRC was obtained from Mode E CSIPL then go to MAP 9500,A (21ED) or MAP 9700,A (10SR). Replace FRU(s) listed only if MAPs do not isolate failure.
Cd83	A-A1E2/ A-A2E2 A-A2J2 A-A2K2	90 4 4	0179A 9500A 9700A	T6509	90-210	C9xx(21ED), CAxx(10SR), and Cd0x - Cd1x (Diskette) system reference codes, if present, should be used before using this code. If SRC was obtained from Mode 0 CSIPL then go to MAP 0179, A.

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						<p>If SRC was obtained from Mode E CS IPL then go to MAP 9500,A (21ED) or MAP 9700,A (10SR).</p> <p>Replace FRU(s) listed only if MAPs do not isolate failure.</p>
Cd84	A-A1E2/	70	0179A		90-210	<p>C9xx(21ED), CAxx(10SR), and Cd0x - Cd1x (Diskette) system reference codes, if present, should be used before using this code.</p> <p>If SRC was obtained from Mode 0 CS IPL then go to MAP 0179, A.</p> <p>If SRC was obtained from Mode E CS IPL then go to MAP 9500,A (21ED) or MAP 9700,A (10SR).</p> <p>Replace FRU(s) listed only if MAPs do not isolate failure.</p>
	A-A2E2		9500A	T6510		
	A-A1F2/	5	9700A			
	A-A2F2					
	A-A1C2/	5				
	A-A2C2					
	A-A1D2/	5				
	A-A2D2					
	A-A2J2	1				
	A-A2C4	1				
	A-A2D4	1				
	A-A2K2	1				
Cd85	A-A1E2/	70	0179A		90-210	
	A-A2E2		9500A	T6511		
	A-A1F2/	5	9700A			
	A-A2F2					
	A-A1C2/	5				
	A-A2C2					
	A-A1D2/	5				
	A-A2D2					
	A-A2J2	1				
	A-A2C4	1				
	A-A2D4	1				
	A-A2K2	1				
						<p>Replace FRU(s) listed only</p>

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MAP 0116-50

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						if MAPs do not isolate failure.
Cd86	A-A1E2/ A-A2E2 A-A2J2 A-A2K2 A-A1L2	90 4 4 1	0179A 9500A 9700A	T6512	90-210	C9xx(21ED), CAxx(10SR), and Cd0x - Cd1x (Diskette) system reference codes, if present, should be used before using this code.  If SRC was obtained from Mode 0 CSIPL then go to MAP 0179, A.  If SRC was obtained from Mode E CSIPL then go to MAP 9500,A (21ED) or MAP 9700,A (10SR).  Replace FRU(s) listed only if MAPs do not isolate failure.
Cd87	A-A1E2/ A-A2E2 A-A1F2/ A-A2F2 A-A1C2/ A-A2C2 A-A1D2/ A-A2D2 A-A2J2 A-A2C4 A-A2D4 A-A2K2	70 5 5 5 1 1 1 1 1 1	0179A 9500A 9700A	T6524	90-210	C9xx(21ED), CAxx(10SR), and Cd0x - Cd1x (Diskette) system reference codes, if present, should be used before using this code.  If SRC was obtained from Mode 0 CSIPL then go to MAP 0179, A.  If SRC was obtained from Mode E CSIPL then go to MAP 9500,A (21ED) or MAP 9700,A (10SR).  Replace FRU(s) listed only if MAPs do not isolate failure.
Cd88	A-A1E2/ A-A2E2 A-A1F2/	70 5	0179A 9500A 9700A	T6525	90-210	C9xx(21ED), CAxx(10SR), and Cd0x - Cd1x (Diskette) system reference codes,

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						Replace FRU(s) listed only if MAPs do not isolate failure.
Cd8d	A-A2J2 A-A2E2 A-A2K2	80 15 2	0179A 9500A 9700A	T6540	90-210	C9xx(21ED), CAxx(10SR), and Cd0x - Cd1x (Diskette) system reference codes, if present, should be used before using this code.  If SRC was obtained from Mode 0 CSIPL then go to MAP 0179, A.  If SRC was obtained from Mode E CSIPL then go to MAP 9500,A (21ED) or MAP 9700,A (10SR).  Replace FRU(s) listed only if MAPs do not isolate failure.
Cd8E	A-A1E2/ A-A2E2 A-A2J2 A-A2K2 A-A1N2	90 4 4 1	0179A 9500A 9700A	T6512	90-210	C9xx(21ED), CAxx(10SR), and Cd0x - Cd1x (Diskette) system reference codes, if present, should be used before using this code.  If SRC was obtained from Mode 0 CSIPL then go to MAP 0179, A.  If SRC was obtained from Mode E CSIPL then go to MAP 9500,A (21ED) or MAP 9700,A (10SR).  Replace FRU(s) listed only if MAPs do not isolate failure.
Cd8F	A-A1E2/ A-A2E2	50	0179A 9500A		90-210	C9xx(21ED), CAxx(10SR), and Cd0x - Cd1x (Diskette)

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A-A1F2/	10	9700A			system reference codes, if present, should be used before using this code.
A-A2F2					
A-A1C2/	10				
A-A2C2					
A-A1D2/	10				If SRC was obtained from Mode 0 CS IPL then go to MAP 0179, A.
A-A2D2					
A-A2J2	1				
A-A2C4	1				
A-A2D4	1				If SRC was obtained from Mode E CS IPL then go to MAP 9500,A (21ED) or MAP 9700,A (10SR).
A-A2K2	1				Replace FRU(s) listed only if MAPs do not isolate failure.
-----					
***** 3262 Printer CExx *****					
CE01	3262	70			Hardware problem with 3262 printer is indicated. You may either run the 3262 printer exerciser 'ripple print' or the 3262 printer MDI diagnostics to further define the problem.
A-A2S2	20	5001A		PS-200	One of these TUs failed during IPL wrap: TE262,
I/O cb1	5			PR-205	TE265, TE296.
A-A2R2	4				Note: Ensure the printer Unit Emergency switch is in the Power Enable position.
TCC/Bd	1				
-----					
CE02	3262	70			Hardware problem with 3262 printer is indicated. You may either run the 3262 printer exerciser 'ripple print' or the 3262 printer MDI diagnostics to further define the problem.
A-A2T2	18	5001A		PT-200	One of these TUs failed during IPL wrap: TE263,
A-A2S2	18			PS-200	

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	A-A2R2	3			PR-200	TE266.
	TCC/Bd	1				
CE03	A-A2R2	88	5001A		PR-205	One of these TUs failed
	A-A2S2	10			PS-200	during IPL wrap: TE230,
	A-A2T2	1			PT-200	TE231, TE232.
	TCC/Bd	1				
CE04	A-A2R2	95	5001A		PR-205	One of these TUs failed
	A-A2S2	2			PS-200	during IPL wrap: TE220,
	A-A2T2	2			PT-200	TE221, TE222, TE223,
	TCC/Bd	1				TE224, TE225, TE226,
						TE227, TE228, TE229,
						TE22A, TE22B, TE238,
						TE239, TE23A, TE23B,
						TE23C, TE23D, TE23E,
						TE23F, TE240, TE241,
						TE242, TE243, TE244,
						TE245, TE246, TE247,
						TE248, TE249, TE24A,
						TE24B, TE24C, TE24D,
						TE24E, TE24F
CE05	A-A2S2	70	5001A		PS-200	One of these TUs failed
	A-A2R2	24			PR-205	during IPL wrap: TE206,
	A-A2T2	4			PT-200	TE208, TE20A.
	A-A1L2	1				
	TCC/Bd	1				
CE06	A-A2S2	90	5001A		PS-200	One of these TUs failed
	A-A2T2	8			PT-200	during IPL wrap: TE201,
	A-A2R2	1			PR-205	TE205, TE209.
	TCC/Bd	1				
CE07	A-A2S2	94	5001A		PS-200	One of these TUs failed
	A-A2T2	5			PT-200	during IPL wrap: TE203,
	TCC/Bd	1				TE203.
CE08	A-A2R2	59	5001A		PR-205	One of these TUs failed
	A-A2T2	20			PS-200	during IPL wrap: TE21E,
	A-A2S2	20			PT-200	TE22E.
	TCC/Bd	1				
CE09	A-A2S2	80	5001A		PS-200	One of these TUs failed

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	A-A2R2	19			PR-205	during IPL wrap: TE207, TE267, TE236, TE237, TE273, TE275, TE27A.
	TCC/Bd	1				
CE10	A-A2S2	78	5001A		PS-200	One of these TUs failed during IPL wrap: TE267, TE26A, TE26B, TE26C, TE276, TE277, TE279, TE27B, TE27C.
	A-A2T2	10			PT-200	
	3262	8				Hardware problem with 3262 printer is indicated. You may either run the 3262 printer exerciser 'ripple print' or the 3262 printer MDI diagnostics to further define the problem.
	I/O cb1	2				
	A-A2R2	1			PR-205	
	TCC/Bd	1				
CE11	A-A2S2	80	5001A		PS-200	One of these TUs failed during IPL wrap: TE264, TE26F, TE278.
	3262	15				Hardware problem with 3262 printer is indicated. You may either run the 3262 printer exerciser 'ripple print' or the 3262 printer MDI diagnostics to further define the problem.
	I/O cb1	3				
	A-A2R2	1			PR-205	
	TCC/Bd	1				
CE12	A-A2S2	70	5001A		PS-200	TU TE210 failed during
	A-A2T2	20			PT-200	IPL wrap.
	A-A2R2	9			PR-205	
	TCC/Bd	1				
CE13	A-A2S2	80	5001A		PS-200	TU TE272 failed during
	A-A2R2	12			PR-205	IPL wrap.
	3262	5				Hardware problem with 3262 printer is indicated. You may either run the 3262 printer exerciser 'ripple print' or the 3262 printer MDI diagnostics to further define the
	I/O cb1	2				
	TCC/Bd	1				

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CE20	A-A2S2	70	5001A			PS-200	One of these TUs failed during IPL wrap: TE2D3, TE2EB.	
	I/O cb1	20				PT-200		
	A-A2T2	7				PR-205		
	A-A2R2	2						
	TCC/Bd	1						
CE21	I/O cb1	90	5001A			PS-200	TU TE2E9 failed during IPL wrap. Cable interlock is open.	
	A-A2S2	7				PR-205		
	A-A2R2	2						
	TCC/Bd	1						
CE22	A-A2S2	77	5001A			PS-200	One of these TUs failed during IPL wrap: TE2D8, TE2D9, TE2DA, TE2DB, TE2DC, TE2DD	
	I/O cb1	20				PR-205		
	A-A2R2	2						
	TCC/Bd	1						
CE23	A-A2S2	77	5001A			PS-200	One of these TUs failed during IPL wrap: TE2DE, TE2DF, TE2E0, TE2E1, TE2E2, TE2E3	
	I/O cb1	20				PR-205		
	A-A2R2	2						
	TCC/Bd	1						
CE24	A-A2S2	70	5001A			PS-200	One of these TUs failed during IPL wrap: TE206, TE208, TE20A.	
	A-A2R2	24				PR-205		
	A-A2T2	4				PT-200		
	A-A1N2	1					Unexpected IPL wrap error or CSU wrap error.	
	TCC/Bd	1						
***** CFxx Wrap Errors *****								
****	Note: The following CFxx SRCs are unexpected IPL or CSU wrap errors. The last two characters of the SRC is the failing device ID.						****	****
CF01							Initialization wrap error.	
CF40			4100A				CF40 - 1255 MCR	
CF61	A-A2K2/	10	0190A				CF61 - tape controller	
	A-A2J2		0190A				CF61 - wrkstn controller	
	A-A1H2	10	0190A				CF61 - MLCA controller	
	A-A3S2/	10						
	A-A3P2							
CF65	A-A1E2/	90	9500A				21ED/10SR/Dskt; DSA-1	
	A-A2E2/		9700A				8809 Tape; DSA-2	

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	A-A2K2		0179A				6157 Tape; DSA-3
			9900A				
CF71	A-A1L2	98					LAN Adapter Card failed
	A-A1B2	01					or LAN Controller Cable
							failed .
CF81			3003A				CF81 - communications
							(3003,A)
CF84			3003A				CF84 - communications SLCA
							(3003,A)
CF82			3003A				CF82 - communications
							(3003,A)
CFA2			9500A				CFA2 - 21ED disk (9500,A)
CFA3			9700A				CFA3 - 10SR disk (9700,A)
CFb1	A-A2K2	10	9900A				CFb1 - 8809 tape (9900,A)
	A-A2J2	10					
CFb2							6157 CSU IPL wraps failed.
							*IPL DIAG21/41 MODE E0000,
							use SRC for FRU isolation.
CFC2			7001AA				CFC2 - work station
							(7001,A)
CFd2	A-A2J2	10	0179A				CFD2 - diskette (0179,A)
CFE2			5001A				CFE2 - printer (5001,A)
							Unexpected wrap error.
							The last 2 characters of
							the SRC is the failing
							device ID.
***** MSP Diagnostics Dxxx *****							
d074	MS	70	1179A				CSIPL 3rd load.
	A-A1Q2	25					Main storage cards are
	A-A1P2	3					512Kb, 256Kb and 128Kb.
							MS = main storage
							Autoconfigure Failed.

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						Go to MAP 1179 Entry point A.
d079	MS A-A1Q2 A-A1P2	73 20 5	1179A			CSIPL 3rd load. Main storage cards are 512Kb, 256Kb and 128Kb. MS = main storage Go to MAP 1179 to isolate the failing card
d083	MS A-A1Q2	74 24	1183A			CSIPL 3rd load. Main storage cards are 128Kb, 256Kb and 512Kb. MS = main storage Go to MAP 1183 to isolate the failing card.
d084	MS A-A1Q2 A-A1 Bd	74 24 1	1184A			CSIPL 3rd load. Main storage cards are 512Kb, 256Kb and 128Kb. MS = main storage Go to MAP 1184 to isolate the failing card.
d085	MS A-A1Q2	74 25	1185A			CSIPL 3rd load. If MS is the problem, MS card MS card sizes are: 128Kb, 256Kb and 512Kb. MS = main storage Go to MAP 1185 to isolate the failing card.
d087	MS A-A1Q2	74 24	1187A			CSIPL 3rd load. Main storage cards are 512Kb, 256Kb and 128Kb. MS = main storage Go to MAP 1187 to isolate the failing card.
d144	A-A1Q2 A-A1U2 A-A1P2	60 30 7	1144A			CSIPL 3rd load. A-A1U2 is a 512Kb storage card. Go to MAP 1144 to isolate the failing card.

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d146	A-A1P2 A-A1Q2 A-A1U2	60 30 7	1146A			CSIPL 3rd load. A-A1U2 is a 512Kb storage card. Go to MAP 1146 to isolate the failing card.
d175	A-A1U2 A-A1Q2	60 39	1175A			CSIPL 3rd load. Main storage cards are 512Kb storage cards. MS = main storage Go to MAP 1175 to isolate the failing card.
d179	MS A-A1Q2 A-A1P2	73 20 5	1179A			CSIPL 3rd load. Main storage cards are 512Kb storage cards. MS = main storage Go to MAP 1179 to isolate the failing card.
d183	MS A-A1Q2	74 24	1183A			CSIPL 3rd load. Main storage cards are 512Kb storage cards. MS = main storage Go to MAP 1183 to isolate the failing card.
d184	MS A-A1Q2	74 24	1184A			CSIPL 3rd load. If MS is the problem , MS card sizes are 128Kb , 256Kb and 512Kb. MS = main storage Go to MAP 1184 to isolate the failing card.
d185	MS A-A1Q2	74 24	1185A			CSIPL 3rd load. If MS is the problem , MS card sizes are 128Kb , 256Kb and 512Kb. MS = main storage Go to MAP 1185 to isolate the failing card.

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d186	MS A-A1Q2	74 24	1186A							CS IPL 3rd load. Main storage cards are 512Kb storage cards. MS = main storage Go to MAP 1186 to isolate the failing card.
d187	MS A-A1Q2	74 24	1187A							CS IPL 3rd load. Main storage cards are 512Kb storage cards. MS = main storage Go to MAP 1187 to isolate the failing card.
d188	A-A1U2 A-A1Q2 A-A1 Bd	74 24 1	1188A					CU-1XX CQ-1XX		CS IPL 3rd load. A1U2 is a 256Kb storage card. Go to MAP 1188 to isolate the failing card.
d189	A-A1Q2 A-A1U2	55 43	1189A							CS IPL 3rd load. A-A1U2 is a 512Kb storage card. Go to MAP 1189 to isolate the failing card.
d193	A-A1U2 A-A1Q2	75 24	1193A							CS IPL 3rd load. A-A1U2 is a 512Kb storage card. Go to MAP 1193 to isolate the failing card.
d197	A-A1U2 A-A1Q2	74 25	1197A							CS IPL 3rd load. A-A1U2 is a 512Kb storage card. Go to MAP 1197 to isolate the failing card.
d198	A-A1U2 A-A1Q2	59 40	1198A							CS IPL 3rd load. A-A1U2 is a 512Kb storage card. Go to MAP 1198 to isolate the failing card.

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d199	A-A1U2 A-A1Q2	59 40	1199A					CSIPL 3rd load. A-A1U2 is a 512Kb storage card. Go to MAP 1199 to isolate the failing card.
d201	A-A1U2	99						CSIPL 3rd load. A-A1T2 is a 512Kb storage card.
d202	A-A1T2	99						CSIPL 3rd load. A-A1T2 is a 512Kb storage card.
d204	A-A1S2	99						CSIPL 3rd load. A-A1S2 is a 512Kb storage card.
d208	A-A1R2	99						CSIPL 3rd load. A-A1R2 is a 512Kb storage card.
d211	A-A1U2 A-A1Q2	55 45						CSIPL 3rd load. A-A1U2 is a 512Kb storage card.
d346	A-A1P2 A-A1Q2 A-A1U2 A-A1N2 A-A1 Bd	50 30 10 7 1	1146A					CP-1XX CSIPL 3rd load. CQ-1XX A1U2 is a 256Kb storage CU-1XX card. CN-1XX A1N2 is the CSP.SS card.
d444	A-A1Q2 A-A1U2 A-A1P2 A-A1 Bd	60 30 7 1	1144A					CQ-1XX CSIPL 3rd load. CU-1XX A1U2 is a 256Kb storage CP-1XX card. Go to MAP 1144 to isolate the failing card.
d446	A-A1P2 A-A1Q2 A-A1U2 A-A1N2 A-A1 Bd	50 30 10 7 1	1146A					CP-1XX CSIPL 3rd load. CQ-1XX A1U2 is a 256Kb storage CU-1XX card. Go to MAP 1146 to isolate the failing card.

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d475	A-A1U2	60	1175A	CU-1XX	CSIPL 3rd load.
	A-A1Q2	39		CQ-1XX	A1U2 is a 256Kb storage card.
	A-A1 Bd	1			Go to MAP 1175 to isolate the failing card.
-----					
d476	A-A1U2	60	1176A	CU-1XX	CSIPL 3rd load.
	A-A1Q2	38		CQ-1XX	A1U2 is a 256Kb storage card.
	A-A1 Bd	1			Go to MAP 1176 to isolate the failing card.
-----					
d477	MS	73	1177A	CU-1XX	CSIPL 3rd load.
	A-A1Q2	20		CQ-1XX	Main storage cards are
	A-A1P2	5		CP-1XX	256Kb cards.
	A-A1 Bd	1			MS = main storage
					Go to MAP 1177 to isolate the failing card.
-----					
d479	MS	73	1179A	CU-1XX	CSIPL 3rd load.
	A-A1Q2	20		CQ-1XX	Main storage cards are
	A-A1P2	5		CP-1XX	256Kb cards.
					MS = main storage
					Go to MAP 1179 to isolate the failing card.
-----					
d480	A-A1U2	73	1180A	CU-1XX	CSIPL 3rd load.
	A-A1Q2	20		CQ-1XX	A1U2 is a 256Kb storage
	A-A1P2	5		CP-1XX	card.
	A-A1 Bd	1			Go to MAP 1180 to isolate the failing card.
-----					
d483	MS	74	1183A	CU-1XX	CSIPL 3rd load.
	A-A1Q2	24		CQ-1XX	A1U2 is a 256Kb storage
	A-A1 Bd	1			card.
					MS = main storage.
					Go to MAP 1183 to isolate the failing card.
-----					
d484	MS	74	1184A	CU-1XX	CSIPL 3rd load.
	A-A1Q2	24		CQ-1XX	MS is a 256Kb storage
	A-A1 Bd	1			card.
					MS = main storage.
					Go to MAP 1184 to isolate

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							the failing card.
d485	MS A-A1Q2	74 25	1185A			CQ-1XX	CSIPL 3rd load. A1U2 is a 256Kb storage card. MS = main storage. Go to MAP 1185 to isolate the failing card.
d486	A-A1U2 A-A1Q2 A-A1 Bd	74 24 1	1186A			CU-1XX CQ-1XX	CSIPL 3rd load. A1U2 is a 256Kb storage card. Go to MAP 1186 to isolate the failing card.
d487	MS A-A1Q2	74 25	1187A				CSIPL 3rd load. All main storage cards are 256Kb. MS = main storage. Go to MAP 1187 to isolate the failing card.
d488	A-A1U2 A-A1Q2 A-A1 Bd	74 24 1	1188A			CU-1XX CQ-1XX	CSIPL 3rd load. A1U2 is a 256Kb storage card. Go to MAP 1188 to isolate the failing card.
d489	A-A1Q2 A-A1U2 A-A1 Bd	55 43 1	1189A			CQ-1XX CU-1XX	CSIPL 3rd load. A1U2 is a 256Kb storage card. Go to MAP 1189 to isolate the failing card.
d492	A-A1Q2 A-A1U2 A-A1P2 A-A1 Bd	60 20 19 1	1192A			CQ-1XX CU-1XX CP-1XX	CSIPL 3rd load. A1U2 is a 256Kb storage card. Go to MAP 1192 to isolate the failing card.
d493	A-A1U2 A-A1Q2	75 24	1193A			CU-1XX CQ-1XX	CSIPL 3rd load. A1U2 is a 256Kb storage card. Go to MAP 1193 to isolate

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						the failing card.
d494	MS A-A1Q2 A-A1 Bd	74 24 1	1194A			CSIPL 3rd load. CQ-1XX All main storage cards are 256Kb. MS = main storage. Go to MAP 1194 to isolate the failing card.
d497	A-A1U2 A-A1Q2 A-A1 Bd	74 25 1	1197A			CU-1XX CSIPL 3rd load. CQ-1XX A1U2 is a 256Kb storage card. Go to MAP 1197 to isolate the failing card.
d498	A-A1U2 A-A1Q2 A-A1 Bd	60 38 1	1198A			CU-1XX CSIPL 3rd load. CQ-1XX A1U2 is a 256Kb storage card. Go to MAP 1198 to isolate the failing card.
d499	A-A1U2 A-A1Q2 A-A1 Bd	59 40 1	1199A			CU-1XX CSIPL 3rd load. CQ-1XX A1U2 is a 256Kb storage card. Go to MAP 1199 to isolate the failing card.
d501	A-A1U2	99				CU-1XX CSIPL 3rd load. A1U2 is a 256Kb storage card.
d502	A-A1T2	99				CT-1XX CSIPL 3rd load. A1T2 is a 256Kb storage card.
d504	A-A1S2	99				CS-1XX CSIPL 3rd load. A1S2 is a 256Kb storage card.
d508	A-A1R2	99				CR-1XX CSIPL 3rd load. A1R2 is a 256Kb storage card.
d511	A-A1U2 A-A1Q2	55 45				CU-1XX CSIPL 3rd load. A1U2 is a 256Kb storage card. CQ-1XX
d678	MS A-A1Q2	73 20	1178A			CSIPL 3rd load. CQ-1XX Main storage cards are

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	A-A1P2	5			CP-1XX	256Kb and 128Kb cards. MS = main storage Go to MAP 1178 to isolate the failing card.
	A-A1 Bd	1				
d679	MS	73	1178A			CSIPL 3rd load. Main storage cards are 256Kb and 128Kb cards. MS = main storage Go to MAP 1178 to isolate the failing card.
	A-A1Q2	20				
	A-A1P2	5				
d683	MS	74	1183A			CSIPL 3rd load. Main storage cards are 256Kb and 128Kb cards. MS = main storage Go to MAP 1183 to isolate the failing card.
	A-A1Q2	24				
d684	MS		1184A			Go to MAP 1184 to isolate the failing card.
d685	MS	74	1185A			CSIPL 3rd load. If MS is the problem, MS card sizes are 128Kb, 256Kb and 512Kb. MS = main storage Go to MAP 1185 to isolate the failing card.
	A-A1Q2	24				
d687	MS	74	1187A			CSIPL 3rd load. Main storage cards are 256Kb and 128Kb cards. MS = main storage Go to MAP 1187 to isolate the failing card.
	A-A1Q2	24				
d695	MS	74	1195A			CSIPL 3rd load.
	A-A1Q2	24			CQ-1XX	Main storage cards are 256Kb and 128Kb cards. MS = main storage. Go to MAP 1195 to isolate the failing card.
	A-A1 Bd	1				

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d700	A-A1P2	90				CSPIPL 3rd Load.
	A-A1N2	8				
d701	A-A1P2	58				CSPIPL 3rd Load.
	A-A1N2	40				
d702	MS	80				CSPIPL 3rd Load.
	A-A1P2	18				Go to Map 1170
d703						CSPIPL 3RD Load. Configure Error Go to Map 0105
d704						CSPIPL 3rd Load. Unexpected Failure.
d779	MS	73	1179A			CSIPL 3rd load.
	A-A1Q2	20				Main storage cards are
	A-A1P2	5				512Kb and 128Kb.
						MS = main storage
						Go to MAP 1179 to isolate
						the failing card.
d783	MS	74	1183A			CSIPL 3rd load.
	A-A1Q2	25				Main storage cards are
						512Kb and 128Kb.
						MS = main storage
						Go to MAP 1183 to isolate
						the failing card.
d784	MS	74	1184A			CSIPL 3rd load.
	A-A1Q2	24				Main storage cards are
	A-A1 Bd	1				512Kb and 128Kb.
						MS = main storage
						Go to MAP 1184 to isolate
						the failing card.
d785	MS	74	1185A			CSIPL 3rd load. If MS is
	A-A1Q2	24				the problem , MS card
						sizes are 128Kb , 256Kb
						and 512Kb.
						MS = main storage
						Go to MAP 1185 to isolate

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MAP 0116-69



System Reference Codes

MAP 0116-71

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d940	A-A1N2	98				CN-1XX	CSIPL 3rd load. A-A1N2 is a CSP/SS card.
d950	A-A1N2 A-A1Q2	33 33				CN-1XX CQ-1XX	CSIPL 3rd load. The A1N2 is a CSP/SS card.
d970	A-A1N2 A-A1P2 A-A1Q2	33 33 33				CN-1XX CP-1XX CQ-100	CSIPL 3rd load. The A1N2 is a CSP/SS card.
dAXX							CSIPL 3rd load. dAXX will only appear in stop mode (EE00) or stop on error mode (Fb03). XX indicates the TU just executed. XX may be 00 - 9F.
db00	A-A1Q2 A-A1P2 A-A1N2 A-A1 Bd	50 30 18 1	1100A			CQ-1XX CP-1XX CN-1XX	CSIPL 3rd load. Go to MAP 1100 to isolate the failing card. A1N2 is a CSP/SS card.
db02	A-A1N2 A-A1Q2 A-A1P2 A-A1M2 A-A1 Bd	50 30 15 1 1	1102A	62		CN-1XX CQ-1XX CP-1XX CP-1XX	CSIPL 3rd load. Go to MAP 1102 to isolate the failing card. A1N2 is a CSP/SS card.
db03	A-A1Q2 A-A1N2 A-A1P2 A-A1 Bd	77 11 10 1	1103A			CQ-1XX CN-1XX CP-1XX	CSIPL 3rd load. Go to MAP 1103 to isolate the failing card. A1N2 is a CSP/SS card.
db06	A-A1Q2 A-A1P2 A-A1N2 A-A1 Bd	40 30 27 1	1106A			CQ-1XX CP-1XX CN-1XX	CSIPL 3rd load. Go to MAP 1106 to isolate the failing card. A1N2 is a CSP/SS card.
db07	A-A1Q2 A-A1N2 A-A1P2 A-A1 Bd	77 11 10 1	1107A			CQ-1XX CN-1XX CP-1XX	CSIPL 3rd load. Go to MAP 1107 to isolate the failing card. A1N2 is a CSP/SS card.

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db08	A-A1Q2	50	1108A			CQ-1XX	CSIPL 3rd load.
	A-A1P2	30				CP-1XX	Go to MAP 1108 to isolate
	A-A1N2	17				CN-1XX	the failing card.
	A-A1 Bd	1					A1N2 is a CSP/SS card.
db09	A-A1Q2	50	1109A			CQ-1XX	CSIPL 3rd load.
	A-A1P2	40				CP-1XX	Go to MAP 1109 to isolate
	A-A1N2	8				CN-1XX	the failing card.
	A-A1 Bd	1					A1N2 is a CSP/SS card.
db10	A-A1Q2	50	1110A			CQ-1XX	CSIPL 3rd load.
	A-A1P2	35				CP-1XX	Go to MAP 1110 to isolate
	A-A1N2	12				CN-1XX	the failing card.
	A-A1 Bd	1					A1N2 is a CSP/SS card.
db12	A-A1P2	50	1112A			CP-1XX	CSIPL 3rd load.
	A-A1Q2	48				CQ-1XX	Go to MAP 1112 to isolate
	A-A1N2	2				CN-1XX	the failing card.
							A1N2 is a CSP/SS card.
db14	A-A1P2	60	1114A			CP-1XX	CSIPL 3rd load.
	A-A1Q2	30				CQ-1XX	Go to MAP 1114 to isolate
	A-A1N2	7				CN-1XX	the failing card.
	A-A1 Bd	1					A1N2 is a CSP/SS card.
db22	A-A1P2	50	1122A			CP-1XX	CSIPL 3rd load.
	A-A1Q2	40				CQ-1XX	Go to MAP 1122 to isolate
	A-A1N2	7				CN-1XX	the failing card.
	A-A1 Bd	1					A1N2 is a CSP/SS card.
db24	A-A1Q2	60	1124A			CQ-1XX	CSIPL 3rd load.
	A-A1P2	30				CP-1XX	Go to MAP 1124 to isolate
	A-A1N2	7				CN-1XX	the failing card.
	A-A1 Bd	1					A1N2 is a CSP/SS card.
db28	A-A1Q2	70	1128A			CQ-1XX	CSIPL 3rd load.
	A-A1P2	24				CP-1XX	Go to MAP 1128 to isolate
	A-A1N2	3				CN-1XX	the failing card.
	A-A1 Bd	1					A1N2 is a CSP/SS card.
db29	A-A1Q2	44	1129A			CQ-1XX	CSIPL 3rd load.
	A-A1P2	34				CP-1XX	Go to MAP 1129 to isolate
	A-A1N2	20				CN-1XX	the failing card.

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	A-A1 Bd  1				A1N2 is a CSP/SS card.
db30	A-A1N2  70 1130A				CN-1XX CSIPL 3rd load.
	A-A1P2  28				CP-1XX Go to MAP 1130 to isolate
	A-A1 Bd  1				the failing card.
					A1N2 is a CSP/SS card.
db33	A-A1P2  40 1133A	60			CP-1XX CSIPL 3rd load.
	A-A1Q2  40				CQ-1XX Go to MAP 1133 to isolate
	A-A1N2  17				CM-1XX the failing card.
	A-A1 Bd  1				The system co tains a
					CSP/SS.
db34	A-A1Q2  50 1134A				CQ-1XX CSIPL 3rd load.
	A-A1P2  30				CP-1XX Go to MAP 1134 to isolate
	A-A1N2  17				CN-1XX the failing card.
	A-A1 Bd  1				A1N2 is a CSP/SS card.
db35	A-A1N2  69 1135A				CN-1XX CSIPL 3rd load.
	A-A1P2  30				CP-1XX Go to MAP 1135 to isolate
					the failing card.
					A1N2 is a CSP/SS card.
db37	A-A1Q2  45 1137A				CQ-1XX CSIPL 3rd load.
	A-A1P2  35				CP-1XX Go to MAP 1137 to isolate
	A-A1N2  18				CN-1XX the failing card.
	A-A1 Bd  1				A1N2 is a CSP/SS card.
db46	A-A1P2  50 1146A				CP-1XX CSIPL 3rd load.
	A-A1Q2  30				CQ-1XX Go to MAP 1146 to isolate
	A-A1U2  10				the failing card.
	A-A1N2   7				CN-1XX A1N2 is a CSP/SS card.
	A-A1 Bd  1				
db48	A-A1P2  60 1148A				CP-1XX CSIPL 3rd load.
	A-A1Q2  36				CQ-1XX Go to MAP 1148 to isolate
	A-A1N2   1				CN-1XX the failing card.
	A-A1 Bd  1				A1N2 is a CSP/SS card.
db82	A-A1Q2  60 1182A				CQ-1XX CSIPL 3rd load.
	A-A1P2  27				CP-1XX Go to MAP 1182 to isolate
	A-A1N2  10				CN-1XX the failing card.
	A-A1 Bd  1				A1N2 is a CSP/SS card.

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dC00	A-A1Q2	50	1100A			CQ-1XX	CSIPL 3rd load.
	A-A1P2	30				CP-1XX	Go to MAP 1100 to isolate
	A-A1M2	15				CM-1XX	the failing card.
	A-A1L2	3				CL-1XX	
	A-A1 Bd	1					
-----							
dC06	A-A1Q2	40	1106A	80		CQ-1XX	CSIPL 3rd load.
	A-A1P2	30				CP-1XX	Go to MAP 1106 to isolate
	A-A1M2	20				CM-1XX	the failing card.
	A-A1L2	7				CL-1XX	
	A-A1 Bd	1					
-----							
dC07	A-A1Q2	77	1107A	80		CQ-1XX	CSIPL 3rd load.
	A-A1P2	10				CP-1XX	Go to MAP 1107 to isolate
	A-A1M2	8				CM-1XX	the failing card.
	A-A1L2	3				CN-1XX	
	A-A1 Bd	1					
-----							
dC08	A-A1Q2	50	1108A	80		CQ-1XX	CSIPL 3rd load.
	A-A1P2	30				CP-1XX	Go to MAP 1108 to isolate
	A-A1M2	14				CM-1XX	the failing card.
	A-A1L2	3				CL-1XX	
	A-A1 Bd	1					
-----							
dC09	A-A1Q2	50	1109A	80		CQ-1XX	CSIPL 3rd load.
	A-A1P2	40				CP-1XX	Go to MAP 1109 to isolate
	A-A1M2	8				CM-1XX	the failing card.
	A-A1 Bd	1					
-----							
dC10	A-A1P2	50	1110A	82		CP-1XX	CSIPL 3rd load.
	A-A1Q2	35				CQ-1XX	Go to MAP 1110 to isolate
	A-A1M2	12				CM-1XX	the failing card.
	A-A1L2	1				CL-1XX	
	A-A1 Bd	1					
-----							
dC12	A-A1P2	50	1112A	71		CP-1XX	CSIPL 3rd load.
	A-A1Q2	48				CQ-1XX	
	A-A1M2	2				CM-1XX	
-----							
dC14	A-A1P2	60	1114A	71		CP-1XX	CSIPL 3rd load.
	A-A1Q2	30				CQ-1XX	Go to MAP 1114 to isolate
	A-A1M2	7				CM-1XX	the failing card.
	A-A1 Bd	1					
-----							

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dC16	A-A1P2	60	1116A	71		CP-1XX	CSIPL 3rd load.
	A-A1Q2	38				CQ-1XX	
dC18	A-A1P2	50	1118A	71		CP-1XX	CSIPL 3rd load.
	A-A1Q2	48				CQ-1XX	
dC20	A-A1P2	55	1120A	71		CP-1XX	CSIPL 3rd load.
	A-A1Q2	43				CQ-1XX	
dC22	A-A1P2	50	1122A	71		CP-1XX	CSIPL 3rd load.
	A-A1Q2	40				CQ-1XX	Go to MAP 1122 to isolate
	A-A1M2	7				CM-1XX	the failing card.
	A-A1 Bd	1					
dC24	A-A1Q2	60	1124A	72		CQ-1XX	CSIPL 3rd load.
	A-A1P2	30				CP-1XX	Go to MAP 1124 to isolate
	A-A1M2	7				CM-1XX	the failing card.
	A-A1 Bd	1					
dC26	A-A1P2	60	1126A	72		CP-1XX	CSIPL 3rd load.
	A-A1Q2	38				CQ-1XX	
dC28	A-A1Q2	70	1128A	73		CQ-1XX	CSIPL 3rd load.
	A-A1P2	24				CP-1XX	Go to MAP 1128 to isolate
	A-A1M2	3				CM-1XX	the failing card.
	A-A1 Bd	1					
dC29	A-A1Q2	44	1129A	88		CQ-1XX	CSIPL 3rd load.
	A-A1P2	34				CP-1XX	Go to MAP 1129 to isolate
	A-A1M2	20				CM-1XX	the failing card.
	A-A1 Bd	1					
dC30	A-A1L2	40	1130A	64		CL-1XX	CSIPL 3rd load.
	A-A1M2	30				CM-1XX	Go to MAP 1130 to isolate
	A-A1P2	28				CP-1XX	the failing card.
	A-A1 Bd	1					
dC31	A-A1Q2	70	1131A	70		CQ-1XX	CSIPL 3rd load.
	A-A1P2	28				CP-1XX	
dC32	A-A1Q2	70	1132A	75		CQ-1XX	CSIPL 3rd load.
	A-A1P2	28				CP-1XX	
dC33	A-A1P2	40	1133A	60		CP-1XX	CSIPL 3rd load.

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	A-A1Q2	40				CQ-1XX	Go to MAP 1133 to isolate
	A-A1B4	17				CB-1XX	the failing card.
	A-A1 Bd	1					
dC34	A-A1Q2	50	1134A	66		CQ-1XX	CSIPL 3rd load.
	A-A1P2	30				CP-1XX	Go to MAP 1134 to isolate
	A-A1M2	17				CM-1XX	the failing card.
	A-A1 Bd	1					
dC35	A-A1L2	40	1135A	64		CL-1XX	CSIPL 3rd load.
	A-A1P2	30				CP-1XX	Go to MAP 1135 to isolate
	A-A1M2	29				CM-1XX	the failing card.
dC36	A-A1Q2	70	1136A	77		CQ-1XX	CSIPL 3rd load.
	A-A1P2	28				CP-1XX	
dC37	A-A1Q2	45	1137A	69		CQ-1XX	CSIPL 3rd load.
	A-A1P2	35				CP-1XX	Go to MAP 1137 to isolate
	A-A1M2	18				CM-1XX	the failing card.
	A-A1 Bd	1				AB-1XX	
dC40	A-A1Q2	60	1140A	20		CQ-1XX	CSIPL 3rd load.
	A-A1P2	38				CP-1XX	
dC42	A-A1Q2	60	1142A	20		CQ-1XX	CSIPL 3rd load.
	A-A1P2	38				CP-1XX	
dC44	A-A1Q2	60	1144A	20		CQ-1XX	CSIPL 3rd load.
	A-A1U2	30				CU-110	If MS is the problem, the
	A-A1P2	7				CP-1XX	failure is a 128Kb card.
	A-A1 Bd	1					
dC46	A-A1P2	50	1146A	20		CP-1XX	CSIPL 3rd load.
	A-A1Q2	30				CQ-1XX	If MS is the problem, the
	A-A1U2	10				CU-110	failure is a 128Kb card.
	A-A1M2	7				CM-1XX	
	A-A1 Bd	1					
dC48	A-A1P2	60	1148A	25		CP-1XX	CSIPL 3rd load.
	A-A1Q2	36				CQ-1XX	
	A-A1L2	1				CL-1XX	
	A-A1 Bd	1					
dC50	A-A1P2	70	1150A	21		CP-1XX	CSIPL 3rd load.

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	A-A1Q2	28				CQ-1XX	
dC52	A-A1P2	70	1152A	23		CP-1XX	CSIPL 3rd load.
	A-A1Q2	28				CQ-1XX	
dC54	A-A1P2	60	1154A	24		CP-1XX	CSIPL 3rd load.
	A-A1Q2	38				CQ-1XX	
dC56	A-A1P2	60	1156A	26		CP-1XX	CSIPL 3rd load.
	A-A1Q2	38				CQ-1XX	
dC58	A-A1Q2	60	1158A	27		CQ-1XX	CSIPL 3rd load.
	A-A1P2	38				CP-1XX	
dC60	A-A1P2	50	1160A	31		CP-1XX	CSIPL 3rd load.
	A-A1Q2	48				CQ-1XX	
dC62	A-A1P2	60	1162A	32		CP-1XX	CSIPL 3rd load.
	A-A1Q2	38				CQ-1XX	
dC63	A-A1P2	60	1163A	41		CP-1XX	CSIPL 3rd load.
	A-A1Q2	38				CQ-1XX	
dC64	A-A1Q2	60	1164A	51		CQ-1XX	CSIPL 3rd load. A1U2 is
	A-A1P2	28				CP-1XX	128Kb storage card.
	A-A1U2	10				CU-110	
dC65	A-A1P2	60	1165A	42		CP-1XX	CSIPL 3rd load.
	A-A1Q2	38				CQ-1XX	
dC66	A-A1P2	60	1166A	44		CP-1XX	CSIPL 3rd load.
	A-A1Q2	38				CQ-1XX	
dC67	A-A1Q2	60	1167A	52		CQ-1XX	CSIPL 3rd load.
	A-A1P2	38				CP-1XX	
dC68	A-A1Q2	60	1168A	46		CQ-1XX	CSIPL 3rd load.
	A-A1P2	30				CP-1XX	
	A-A1N2	5				CP-1XX	
	A-A1M2	3				CP-1XX	
dC75	MS	73	1175A				A1U2 is 128Kb storage
	A-A1Q2	20				CQ-1XX	card.
	A-A1P2	5				CP-1XX	CSIPL 3rd load.

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dC89	MS	73	1189A			A1U2 is 128Kb storage
	A-A1Q2	20				CQ-1XX card.
	A-A1P2	5				CP-1XX CSIPL 3rd load.
	A-A1 Bd	1				MS = main storage.
dC92	MS	73	1192A			A1U2 is 128Kb storage
	A-A1Q2	20				CQ-1XX card.
	A-A1P2	5				CP-1XX CSIPL 3rd load.
	A-A1 Bd	1				MS = main storage.
dC93	A-A1U2	75	1193A	89		CU-110 A1U2 is 128Kb storage
	A-A1Q2	24				CQ-1XX card. CSIPL 3rd load.
dC96	MS	73	1196A			A1U2 is 128Kb storage
	A-A1Q2	20				CQ-1XX card.
	A-A1P2	5				CP-1XX CSIPL 3rd load.
	A-A1 Bd	1				MS = main storage.
dC97	MS	73	1197A			A1U2 is 128Kb storage
	A-A1Q2	20				CQ-1XX card.
	A-A1P2	5				CP-1XX CSIPL 3rd load.
	A-A1 Bd	1				MS = main storage.
dC98	MS	73	1198A			A1U2 is 128Kb storage
	A-A1Q2	20				CQ-1XX card.
	A-A1P2	5				CP-1XX CSIPL 3rd load.
	A-A1 Bd	1				MS = main storage.
dC99	MS	73	1199A			A1U2 is 128Kb storage
	A-A1Q2	20				CQ-1XX card.
	A-A1P2	5				CP-1XX CSIPL 3rd load.
	A-A1 Bd	1				MS = main storage.
dd01	A-A1U2	90				CU-1XX 128Kb ECC storage card.
	A-A1Q2	9				CSIPL 3rd load.
dd02	A-A1T2	99				CT-1XX 128Kb ECC storage card.
						CSIPL 3rd load.
dd04	A-A1S2	99				CT-1XX 128Kb ECC storage card.
						CSIPL 3rd load.
dd08	A-A1R2	99				CT-1XX 128Kb ECC storage card.

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***** CSP Diagnostics Exxx *****						
E000	A-A1M2					Code problem on panel processor card.
E002	A-A1M2	50	0121A			Bad parity from CSP/SS.
	A-A1N2	50				
E004	A-A1M2	50	0121A			CSP/SS won't stop.
	A-A1N2	50				
E011	A-A1M2	70	0121A			PCB bit (s) or PCB strobe grounded.
	A-A1N2	30				
E012	A-A1M2	50	0121A			CSP/SS bus bit(s) or parity bit(s) grounded.
	A-A1N2	50				
E013	A-A1M2	50	0121A			CSP/SS bus bit(s), PCB bit(s) or parity bit(s) floating.
	A-A1N2	50				
E014	A-A1N2	80	0121A			Storage error at location '0000'.
	A-A1M2	20				
E015	A-A1N2	30	0121A			CSP is stopped or proc chk is active or not on main pgm level.
	A-A1M2	10				
	A-A1H2	10				
	A-A1E2/	10				
	A-A2E2					
	A-A3S2	10				
	A-A3P2	10				
	A-A1L2	10				
	A-A2J2	10				
E016	A-A1N2	80	0121A			CSP is active or proc chk is active or MAR is not '0000'.
	A-A1M2	20				
E017	A-A1N2	80	0121A			CSP is active or proc chk is active or not on main pgm level.
	A-A1M2	20				
	A-A1L2	1				
E018	A-A1M2	50	0121A			Check/Run is floating.

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	A-A1N2	50				
E019	A-A1M2 A-A1E2/ A-A2E2 X-Over	40 40 20	0121A			IMPL cycle or IMPL disk/ diskette is grounded.
E020	A-A1N2 A-A1M2	80 20	0121A			Unable to load MCMAB.
E080	A-A1N2	99	0121A			Unconditional branch failed. Module 1.
E081	A-A1N2	99	0121A			Conditional branch failed. Module 2.
E082	A-A1N2	99	0121A			Branch and link failed. Module 3.
E083	A-A1N2	99	0121A			TM instruction failed. Module 4.
E084	A-A1N2	99	0121A			HI/L0 work register selection failed. Module 5.
E085	A-A1N2	99	0121A			CI instruction failed. Module 6.
E086	A-A1N2	99	0121A			SI instruction failed. Module 7.
E087	A-A1N2 A-A1M2	90 9	0121A			One byte logical instruction failed. Module 8.
E088	A-A1N2	99	0121A			One byte arithmetic instruction failed. Module 9.
E089	A-A1N2	99	0121A			Two byte logical instruction failed. Module 10.

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E08A	A-A1N2	99	0121A			Two byte arithmetic instruction failed. Module 11.
E08C	A-A1N2	99	0121A			Hex branch failed. Module 12.
E08E	A-A1N2	99	0121A			Hex move failed. Module 13.
E08F	A-A1N2	99	0121A			Initialization of low 32Kb of memory failed. Module 14.
E090	A-A1N2	99	0121A			Memory test of high 32Kb of memory failed. Module 15.
E091	A-A1N2	99	0121A			Write of low 32Kb of memory to high 32Kb of memory failed. Module 15.
E092	A-A1N2 A-A1M2	90 10	0121A			Memory test of low 32Kb of memory failed. Module 15.
E093	A-A1N2	99	0121A			Write of high 32Kb of memory to low 32Kb of memory failed. Module 15.
E094	A-A1N2	99	0121A			Base plus displacement instruction failed or bar bit wrong. Module 16.
E095	A-A1N2	99	0121A			Read or write of word to or from storage failed. Module 17.
E096	A-A1N2	99	0121A			Read or write of byte to or from storage or bar bit

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					wrong. Module 17.
E097	A-A1N2	99	0121A		Load from control store direct area failed. Module 17.
E098	A-A1N2	99	0121A		Load or sense of channel register failed. Module 18.
E099	A-A1N2	10	0190A		Channel DB0/DBI bits wrong. Go to MAP 0190, Entry Point A to isolate FRU. Module 18.
	A-A1H2	10			
	A-A1E2/	10			
	A-A2E2				
	A-A2S2	10			
	A-A2T2	10			
	A-A1K2	10			
	A-A3S2	10			
	A-A3P2	10			
	A-A1L2	10			
	A-A2N2	1			
	A-A1M2	1			
	X-Over	6			
	Term	6			
E09A	A-A1N2	10	0190A		Channel tag bits or ARS bits wrong. Go to MAP 0190, Entry Point A to isolate FRU. Module 18.
	A-A1H2	10			
	A-A1E2/	10			
	A-A2E2				
	A-A3S2	10			
	A-A3P2	10			
	A-A1L2	10			
	A-A2J2	10			
	A-A1M2	1			
	X-Over	10			
E09C	A-A1N2	99	0121A		Software set mach chk interrupt failed. Module 18.
E09E	A-A1N2	99	0121A		Disable checks failed. Module 18.

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E09F	A-A1N2	20	0121A			Force MC interrupt through device addr which is not valid failed or enable checks failed. Module 18. Go to MAP 0190, Entry Point A to isolate FRU. The channel terminator card may be in one of 4 different locations: A-A1B3, A-A2U3, A-A3U3 or A-A3U4. Go to Map 0190, Entry Point A to isolate FRU.
	A-A1M2	10				
	A-A1E2/	10				
	A-A2E2					
	A-A2S2	10				
	A-A2T2	10				
	A-A1K2	10				
	A-A3S2	10				
	A-A3P2	10				
	A-A1L2	10				
	A-A2N2	1				
	A-A1H2	1				
	X-Over	6				
	Term	6				
E0A0	A-A1N2	99	0121A			Force MC interrupt through LSR parity check failed. Module 18.
E0A1	A-A1N2	99	0121A			Force MC interrupt through storage parity check failed. Module 18.
E0A2	A-A1N2	10	0190A			Channel tag interrupt requests wrong. Go to MAP 0190, Entry Point A to isolate FRU. Module 19.
	A-A1H2	10				
	A-A1E2/	10				
	A-A2E2					
	A-A2S2	10				
	A-A2J2	10				
	A-A1K2	10				
	A-A3S2	10				
	A-A3P2	10				
	A-A1L2	10				
	A-A2N2	1				
	X-Over	6				
	A-A1M2	3				
E0A3	A-A1N2	99	0121A			Interrupt level 5 structure test failed or enable interrupts failed. Module 19.
E0A4	A-A1N2	99	0121A			Disable interrupts failed.

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						Module 20.
EOA5	A-A1N2	99	0121A			One of interrupt 1 through 4 failed. Module 20.
EOA6	A-A1N2	99	0121A			Load/sense of run control byte failed. Module 21.
EOA7	A-A1N2	99	0121A			Clearing of LSRs failed (move register instruction). Module 22.
EOA8	A-A1N2	20	0121A			Self test complete in CSP but failure to continue IPL.
	A-A1M2	20				
	A-A1H2/	5				
	A-A1E2/	5				
	A-A2E2					
	A-A2S2	5				
	A-A2J2	5				
	A-A1K2	5				
	A-A3S2	5				
	A-A3P2	5				
	A-A1L2	5				
	A-A2N2	1				
E100	A-A1M2	36	0121A			CM-1XX A failure occurred
	A-A1N2	25				CN-1XX before load routine 09.
	A-A1L2	25				CL-1XX
	A-A1Q2	12				CQ-1XX
	A-A1P2	2				CP-1XX
E109	A-A1M2	90				CM-1XX CSP diagnostics test
	A-A1N2	10				CN-100 LA1-DEC by 1.
E110	A-A1M2	90				CM-1XX CSP diagnostics test
	A-A1N2	10				CN-100 LA1-INC by 1.
E111	A-A1M2	90				CM-1XX CSP diagnostics test
	A-A1N2	10				CN-100 LA2-DEC by 1.
E112	A-A1M2	90				CM-1XX CSP diagnostics add reg

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	A-A1N2	10				CN-100 LA2 2 bytes + 1 byte.
E113	A-A1M2	90				CM-1XX CSP diagnostics add reg
	A-A1N2	10				CN-100 LA2 2 bytes.
E114	A-A1M2	90				CM-1XX CSP diagnostics subtract
	A-A1N2	10				CN-100 regs - LA2 2 bytes.
E115	A-A1M2	90				CM-1XX CSP diagnostics storage
	A-A1N2	10				CN-1XX direct - read L.
E116	A-A1M2	80				CM-1XX CSP diagnostics storage
	A-A1N2	20				CN-1XX direct - write ST.
E117	A-A1M2	90	0121A			CM-1XX CSP diagnostics - load
	A-A1N2	10				CN-1XX register from control
						store.
E118	A-A1M2	80				CM-1XX CSP diagnostics reg to
	A-A1N2	20				CN-1XX control store STC.
E119	A-A1L2	50	0121A			CL-1XX CSP diagnostics. Sense and
	A-A1M2	50				CM-1XX load channel register,
						sense CEB.
E120	A-A1M2	50	0121A			CM-1XX CSP diagnostics. Reset,
	A-A1L2	50				CL-1XX load, sense PCR.
E121	A-A1M2	90				CM-1XX CSP diagnostics subtract
	A-A1N2	10				CN-1XX Imm SI.
E122	A-A1M2	90				CM-1XX CSP diagnostics inc reg
	A-A1N2	10				CN-1XX by 1 LA2, 2 bytes.
E123	A-A1M2	90				CM-1XX CSP diagnostics or regs
	A-A1N2	10				CN-1XX LA1, 1 byte.
E124	A-A1M2	90				CM-1XX CSP diagnostics and regs
	A-A1N2	10				CN-1XX LA1, 1 byte.
E125	A-A1M2	90				CM-1XX CSP diagnostics shift left
	A-A1N2	10				CN-1XX logical LA1, 1 byte.
E190	A-A1L2	30	0105G			CL-1XX A failure occurred while

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	A-A1N2	10				CM-1XX	2 byte.
E240	A-A1M2	90				CM-1XX	CSP diagnostics OCR LA2,
	A-A1N2	10				CN-1XX	2 byte.
E241	A-A1M2	90				CM-1XX	CSP diagnostics SLLD LA2,
	A-A1N2	10				CN-1XX	2 byte.
E242	A-A1M2	90				CM-1XX	CSP diagnostics sub reg -
	A-A1N2	10				CN-1XX	SR LA2, 2 byte.
E243	A-A1M2	90				CM-1XX	CSP diagnostics SCYR LA2,
	A-A1N2	10				CN-1XX	2 byte.
E244	A-A1M2	90				CM-1XX	CSP diagnostics ACYR LA2,
	A-A1N2	10				CN-1XX	2 byte.
E245	A-A1M2	90				CM-1XX	CSP diagnostics hex move.
	A-A1N2	10				CN-1XX	
E246	A-A1N2	50	0121A			CN-1XX	CSP diagnostics hex branch
	A-A1M2	50				CM-1XX	using numeric & zone field
							or register.
E247	A-A1M2	90				CM-1XX	CSP diagnostics SRL/SRLD.
	A-A1N2	10				CN-1XX	
E248	A-A1M2	50	0121A			CM-1XX	Control storage. Direct
	A-A1N2	50				CN-1XX	storage test.
E249	A-A1M2	90				CM-1XX	CSP diagnostics move reg.
	A-A1N2	10				CN-1XX	
E250	A-A1M2	90				CM-1XX	CSP diagnostics ZAR LA1,
	A-A1N2	10				CN-1XX	1 byte.
E251	A-A1M2	90				CM-1XX	CSP diagnostics MPLF G0,
	A-A1N2	10				CN-1XX	Y0 ser reg.
E253	A-A1M2	90				CM-1XX	CSP diagnostics MPLF flag
	A-A1N2	10				CN-1XX	sense PCB, PEB.
E255	A-A1L2	40	0121A		10-305	CL-1XX	I/O clocks test. Before
	A-A1M2	40				CM-1XX	replacing any of these

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	A-A1N2	20				CN-1XX	cards, ensure the UDT entry for control store type matches the storage type and the storage type jumper on the A1M2 card is correct.
E256	A-A1M2 A-A1N2	90 10				CM-1XX CN-1XX	CSP diagnostics bank sel reg test.
E257	A-A1L2 A-A1M2 A-A1B4	45 45 10	0121A		10-305	CL-1XX CM-1XX	Not valid control storage address check. Before replacing any of these cards, ensure the UDT entry for control store type matches the storage type and the storage type jumper on the A1M2 card is correct.
E259	A-A1M2 A-A1L2	60 40	0121A			CM-1XX CL-1XX	Force SAR P check, X reg P check, CS SAR check.
E260	A-A1M2 A-A1N2	50 50	0121A			CM-1XX CN-1XX	Force X reg P check, SDR P check, MOR reg P check
E261	A-A1N2 A-A1M2	50 50	0121A			CL-1XX CM-1XX	Force not valid device address check and sys bus parity check.
E263	A-A1M2 A-A1N2	90 10				CM-1XX CN-1XX	CSP diagnostics CS block test.
E264	A-A1M2 A-A1N2	90 10			10-305	CM-1XX CN-1XX	CSP diagnostics CS test.
E281	A-A1N2 A-A1M2	50 50	0121A			CN-1XX CM-1XX	CSP diagnostics LCH and STCH.
E282	A-A1M2	99				CM-1XX	CSP diagnostics CS test LA1/LA2.
E283	A-A1M2	99				CM-1XX	CSP diagnostics br extended - BX.

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E284	A-A1M2	99				CM-1XX	CSP diagnostics BALX.
E285	A-A1M2	99				CM-1XX	CSP diagnostics Compare reg LA1/LA2.
E286	A-A1M2	99				CM-1XX	CSP diagnostics DEC reg LA1/LA2.
E287	A-A1M2	50				CM-1XX	CSP diagnostics fast I
	A-A1N2	50				CN-1XX	fetch ECC mem only.
E288	A-A1M2	90				CM-1XX	CSP diagnostics base
	A-A1N2	10				CN-1XX	disp.
E289	A-A1M2	50				CM-1XX	CSP diagnostics error
	A-A1N2	50				CN-1XX	correction ECC mem only.
E290	A-A1L2	30	0105G			CL-1XX	A failure occurred while
	A-A1H2	30				CH-1XX	loading the CS IPL load 3
	A-A1M2	20				CL-1XX	tests.
	A-A1N2	9				CN-1XX	MAP 0121 will isolate
	A-A2K2	1				CK-1XX	the failing FRU. Go to
	A-A2J2	1					MAP 0105, Entry Point G.
	A-A1E2/	1					
	A-A2E2						The channel terminator
	A-A1C2/	1					card may be in on of 4 .
	A-A2C2						different locations,
	A-A1D2/	1					depending on the system
	A-A2D2						configuration:
	A-A2S2	1					A-A1B3,
	A-A2T2	1					A-A2U3,
	A-A2N2	1					A-A3U3 or A-A3U4.
	A-A3S2	1					
	A-A3P2	1					
	A-A1J2	1					
	A-A1K2	1					
	Term	1					
E291	A-A1C2/	90	9500A				This code is generated
	A-A2C2		or				when a severe file/adapter
	Drive A	10	9700A				error occurs while
							attempting a CS IPL Load 3
							from disk.

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E310	A-A1N2	99				CN-100	CSP diagnostics test LA1-INC by 1.
E311	A-A1N2	99				CN-100	CSP diagnostics test LA2-DEC by 1.
E312	A-A1N2	99				CN-100	CSP diagnostics add reg LA2 2 bytes + 1 byte.
E313	A-A1N2	99				CN-100	CSP diagnostics add reg LA2 2 bytes.
E314	A-A1N2	99				CN-100	CSP diagnostics subtract regs - LA2 2 bytes.
E315	A-A1N2	99				CN-100	CSP diagnostics storage direct - read L.
E316	A-A1N2	99				Cn-100	CSP diagnostics storage direct - write ST.
E317	A-A1N2	99	0121A			CN-100	CSP diagnostics - load register from control store.
E318	A-A1N2	99				CN-100	CSP diagnostics reg to control store STC.
E319	A-A1N2	99	0121A			CN-100	CSP diagnostics. Sense and load channel register, sense CEB.
E320	A-A1N2	99	0121A			CN-100	CSP diagnostics. Reset, load, sense PCR.
E321	A-A1N2	99				CN-100	CSP diagnostics subtract Imm SI.
E322	A-A1N2	99				CN-100	CSP diagnostics inc reg by 1 LA2, 2 bytes.
E323	A-A1N2	99				CN-100	CSP diagnostics or regs LA1, 1 byte.

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E324	A-A1N2	99				CN-100	CSP diagnostics and regs LA1, 1 byte.
E325	A-A1N2	99				CM-100	CSP diagnostics shift left logical LA1, 1 byte.
E390	A-A1N2	59	0105G			CL-1XX CH-1XX CK-1XX	A failure occurred while loading the CSIPL load 2 tests.  If first two FRUs do not fix problem, go to Map 190, Entry Point A Channel Error Isolation.
	A-A1H2	30					
	A-A2K2	1					
	A-A1E2/	1					
	A-A2E2						
	A-A1C2/	1					
	A-A2C2						
	A-A1D2/	1					
	A-A2D2						
	A-A2S2/	1					
	A-A2T2	1					
	A-A2N2	1					
	A-A3S2	1					
	A-A2J2	1					
	A-A1K2	1					
	A-A3P2	1					
E391	A-A1C2/	90	9500A				This code is generated when a severe file/adapter error occurs while attempting a CSIPL Load 2 from disk. 9700 for 10SR Disk; 9500 for 21ED Disk.
	A-A2C2		or				
	Drive A	10	9700A				
E392	A-A1E2/	80	9500A				This code is generated when a DSA error occurs when attempting a CSIPL Load 2 from disk. 9700 for 10SR Disk; 9500 for 21ED Disk.
	A-A2E2		or				
	Drive A	10	9700A				
E393	A-A1C2/	90	9500A				This code is generated when an Interrupt Timeout occurs when attempting a CSIPL Load 2 from disk. 9700 for 10SR Disk; 9500 for 21ED Disk.
	A-A2C2		or				
	Drive A	10	9700A				

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E426	A-A1N2	99				CN-100	CSP diagnostics X or LA1,   1 byte.
E427	A-A1N2	99				CN-100	CSP diagnostics and comp-  NCR LA1, 1 byte.
E428	A-A1N2	99				CN-100	CSP diagnostics or comp-  OCR LA1, 1 byte.
E429	A-A1N2	99				CN-100	CSP diagnostics add reg -  AR LA1, 1 byte.
E430	A-A1N2	99				CN-100	CSP diagnostics sub reg -  SR LA1, 1 byte.
E431	A-A1N2	99				CN-100	CSP diagnostics add reg  with carry - ACYR LA1, 1  byte.
E432	A-A1N2	99				CN-100	CSP diagnostics sub reg  with borrow - SCYR LA1, 1  byte.
E436	A-A1N2	99				CN-100	CSP diagnostics XR LA2,   2 byte.
E437	A-A1N2	99				CN-100	CSP diagnostics or LA2,   2 byte.
E438	A-A1N2	99				CN-100	CSP diagnostics and reg  LA2, 2 byte.
E439	A-A1N2	99				CN-100	CSP diagnostics NCR LA2,   2 byte.
E440	A-A1N2	99				CN-100	CSP diagnostics OCR LA2,   2 byte.
E441	A-A1N2	99				CN-100	CSP diagnostics SLLD LA2,   2 byte.
E442	A-A1N2	99				CN-100	CSP diagnostics sub reg -  SR LA2, 2 byte.

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E443	A-A1N2	99				CN-100	CSP diagnostics SCYR LA2,   2 byte.
E444	A-A1N2	99				CN-100	CSP diagnostics ACYR LA2,   2 byte.
E445	A-A1N2	99				CN-100	CSP diagnostics hex move.
E446	A-A1N2	99	0121A			CN-100	CSP diagnostics hex branch   using numeric & zone field   or register.
E447	A-A1N2	99				CN-100	CSP diagnostics SRL/SRLD.
E448	A-A1N2	99	0121A			CN-100	Control storage. Direct   storage test.
E449	A-A1N2	99				CN-100	CSP diagnostics move reg.
E450	A-A1N2	99				CN-100	CSP diagnostics ZAR LA1,   1 byte.
E451	A-A1N2	99				CN-100	CSP diagnostics MPLF G0,   Y0 ser reg.
E453	A-A1N2	99				CN-100	CSP diagnostics MPLF flag   sense PCB, PEB.
E455	A-A1N2	99	0121A		10-305	CN-100	I/O clocks test.
E456	A-A1N2	99				CN-100	CSP diagnostics bank sel   reg test.
E457	A-A1N2	90	0121A		10-305	CN-100	
E459	A-A1N2	99	0121A			CN-100	Force SAR P check, X reg P   check, CS SAR check.
E460	A-A1N2	99	0121A			CN-100	Force X reg P check, SDR   P check, MOR reg P check

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E461	A-A1N2	99	0121A			CN-100	Force not valid device address check and sys bus parity check.
E463	A-A1N2	99				CN-100	CSP diagnostics CS block test.
E464	A-A1N2	99			10-305	CN-100	CSP diagnostics CS test.
E481	A-A1N2	99	0121A			CN-100	CSP diagnostics LCH and STCH.
E482	A-A1N2	99				CN-100	CSP diagnostics CS test LA1/LA2.
E483	A-A1N2	99				CN-100	CSP diagnostics br extended - BX.
E484	A-A1N2	99				CN-100	CSP diagnostics BALX.
E485	A-A1N2	99				CN-100	CSP diagnostics Compare reg LA1/LA2.
E486	A-A1N2	99				CN-100	CSP diagnostics DEC reg LA1/LA2.
E487	A-A1N2	99				CN-100	CSP diagnostics fast I fetch ECC mem only.
E488	A-A1N2	99				CN-100	CSP diagnostics base disp.
E489	A-A1N2	99				CN-100	CSP diagnostics error correction ECC mem only.
E490	A-A1N2	59	0105G			CN-100	A failure occurred while loading the CSIPL load 3 tests. MAP 0121 will isolate the failing FRU. Go to MAP 0105, Entry Point G.
	A-A1H2	30				CH-1XX	
	A-A2K2	1				CL-1XX	
	A-A1E2/	1				CN-1XX	
	A-A2E2					CK-1XX	
	A-A1C2/	1					
	A-A2C2						
	A-A1D2/	1					
	A-A2D2						

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	A-A1K2	1				
	A-A2S2	1				
	A-A2T2	1				
	A-A2N2	1				
	A-A3S2	1				
	A-A3P2	1				
E491	A-A1C2/ A-A2C2 Drive A	90 or 10	9500A 9700A			This code is generated when a severe file/adaptor error occurs while attempting a CS IPL Load 3 from disk. 9700 for 10SR Disk; 9500 for 21ED Disk.
E492	A-A1E2/ A-A2E2 Drive A	80 or 10	9500A 9700A			This code is generated when a DSA error occurs when attempting a CS IPL Load 3 from disk. 9700 for 10SR Disk; 9500 for 21ED Disk.
E493	A-A1C2/ A-A2C2 Drive A	90 or 10	9500A 9700A			This code is generated when an Interrupt Timeout occurs when attempting a CS IPL Load 3 from disk. 9700 for 10SR Disk; 9500 for 21ED Disk.
E4A1	A-A1N2 A-A1F2 A-A1Q2	90 5 5			CN-100	CSP diagnostic - This is tested under interrupt level 5 but could occur under any interrupt level.
E4A2	A-A1N2	99				CSP diagnostic - fixed interval timer and interrupt level 2.
E4FF			0101C			This code is displayed if the configuration bit is off in the UDT and the input option permits running configuration sensitive routines.

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						(see MIM 01-290) Go to MAP 0101, Entry Point C.
***** CSP Diagnostics Exxx *****						
E800	A-A1M2	99				Code problem on panel processor card.
E802	A-A1M2	50	0121A			Bad parity from CSP/C.
	A-A1N2	50				
E804	A-A1N2	50	0121A			CSP/C won't stop.
	A-A1P2	30				
	A-A1M2	20				
E811	A-A1M2	70	0121A			PCB bit (s) or PCB strobe grounded.
	A-A1N2	30				
E812	A-A1M2	50	0121A			CSP/C bus bit(s) or parity bit(s) grounded.
	A-A1N2	50				
E813	A-A1M2	50	0121A			CSP/C bus bit(s), PCB bit(s) or parity bit(s) floating.
	A-A1N2	50				
E814	A-A1N2	80	0121A			Storage error at location '0000'.
	A-A1M2	20				
E815	A-A1N2	30	0121A			CSP is stopped or proc chk is active or not on main pgm level.
	A-A1M2	10				
	A-A1H2	10				
	A-A1E2/	10				
	A-A2E2					
	A-A3S2	10				
	A-A3P2	10				
	A-A1L2	10				
	A-A2J2	10				
E816	A-A1N2	80	0121A			CSP is active or proc chk is active or MAR is not '0000'.
	A-A1M2	20				
E817	A-A1N2	80	0121A			CSP is active or proc chk is active or not on main pgm level.
	A-A1M2	20				

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MAP 0116-101

System Reference Codes

MAP 0116-102

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E818	A-A1M2 A-A1N2	50 50	0121A				Check/Run is floating.
E819	A-A1M2 A-A1E2/ A-A2E2 X-Over	40 40 20	0121A				IMPL cycle or IMPL disk/ diskette is grounded.
E820	A-A1N2 A-A1M2	80 20	0121A				Unable to load MCMAB.
E880	A-A1N2	99	0121A				Unconditional branch failed. Module 1.
E881	A-A1N2	99	0121A				Conditional branch failed. Module 2.
E882	A-A1N2	99	0121A				Branch and link failed. Module 3.
E883	A-A1N2	99	0121A				TM instruction failed. Module 4.
E884	A-A1N2	99	0121A				HI/L0 work register selection failed. Module 5.
E885	A-A1N2	99	0121A				CI instruction failed. Module 6.
E886	A-A1N2	99	0121A				SI instruction failed. Module 7.
E887	A-A1N2 A-A1M2	90 9	0121A				One byte logical instruction failed. Module 8.
E888	A-A1N2	99	0121A				One byte arithmetic instruction failed. Module 9.
E889	A-A1N2	99	0121A				Two byte logical

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MAP 0116-102

System Reference Codes

MAP 0116-103

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						instruction failed.   Module 10.
E88A	A-A1N2	99	0121A			Two byte arithmetic   instruction failed.   Module 11.
E88C	A-A1N2	99	0121A			Hex branch failed.   Module 12.
E88E	A-A1N2	99	0121A			Hex move failed.   Module 13.
E88F	A-A1N2	99	0121A			Initialization of low 32Kb   of memory failed.   Module 14.
E890	A-A1N2	99	0121A			Memory test of high 32Kb   of memory failed.   Module 15.
E891	A-A1N2	99	0121A			Write of low 32Kb of   memory to high 32Kb of   memory failed.   Module 15.
E892	A-A1N2 A-A1M2	90 10	0121A			Memory test of low 32Kb of   memory failed.   Module 15.
E893	A-A1N2	99	0121A			Write of high 32Kb of   memory to low 32Kb of   memory failed.   Module 15.
E894	A-A1N2	99	0121A			Base plus displacement   instruction failed or bar   bit wrong.   Module 16.
E895	A-A1N2	99	0121A			Read or write of word to   or from storage failed.   Module 17.

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MAP 0116-103

**System Reference Codes**

MAP 0116-104

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E896	A-A1N2	99	0121A							Read or write of byte to or from storage or bar bit wrong. Module 17.
-----										
E897	A-A1N2	99	0121A							Load from control store direct area failed. Module 17.
-----										
E898	A-A1N2	99	0121A							Load or sense of channel register failed. Module 18.
-----										
E899	A-A1N2	10	0190A							Channel DB0/DBI bits wrong. Go to MAP 0190, Entry Point A to isolate FRU. Module 18.
	A-A1H2	10								
	A-A1E2/	10								
	A-A2E2									
	A-A2S2	10								
	A-A2T2	10								
	A-A1K2	10								
	A-A3S2	10								
	A-A3P2	10								
	A-A1L2	10								
	X-Over	4								
	Term	4								
	A-A2N2	1								
	A-A1M2	1								
-----										
E89C	A-A1N2	99	0121A							Software set mach chk interrupt failed. Module 18.
-----										
E89E	A-A1N2	99	0121A							Disable checks failed. Module 18.
-----										
E89F	A-A1N2	20	0121A							Force MC interrupt through device addr which is not valid failed or enable checks failed. Module 18.
	A-A1M2	10								
	A-A1E2/	10								
	A-A2E2									
	A-A2S2	10								
	A-A2T2	10								
	A-A1K2	10								The channel terminator card may be in one of 4 different locations
	A-A3S2	10								
	A-A3P2	10								

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MAP 0116-104

System Reference Codes

MAP 0116-105

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	A-A1L2	10				depending on system
	A-A2N2	1				configuration. A-A1B3,
	A-A1H2	1				A-A2U3, A-A3U3 or A-a3U4.
	X-Over	6				
	Term	6				
E8A0	A-A1N2	99	0121A			Force MC interrupt through system bus parity check failed. Module 18.
E8A1	A-A1N2	99	0121A			System bus parity check logging failed. Module 18.
E8A2	A-A1N2	99	0121A			Force MC interrupt through internal dataflow parity check failed. Module 18.
E8A5	A-A1N2	99	0121A			Internal parity check logging failed. Module 18.
E8A6	A-A1N2	99	0121A			Force MC interrupt through channel check failed. Module 18.
E8A7	A-A1N2	99	0121A			Channel check logging failed. Module 18.
E8A8	A-A1N2	99	0121A			Force MC interrupt through internal dataflow parity check failed. Module 18.
E8A9	A-A1N2	99	0121A			Internal parity check logging failed. Module 18.
E8AA	A-A1N2	10	0190A			Force MC interrupt through sense ARS/TBI bits failed. Module 18.
	A-A1H2	10				
	A-A1E2/	10				
	A-A2E2					
	A-A1K2	10				Go to map 0190, Entry point A to isolate FRU.
	A-A3S2	10				
	A-A3P2	10				
	A-A1L2	10				
	A-A2J2	10				
	X-Over	10				

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MAP 0116-105

System Reference Codes

MAP 0116-106

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	A-A1M2	1				
E8AD	A-A1N2	99	0121A			Sense Storage Error Byte failed. Module 18.
E8AE	A-A1N2	99	0121A			Extraneous interrupt pending. Module 19.
E8AF	A-A1N2	99	0121A			Error in IL5 structure. Module 19.
E8b0	A-A1N2	99	0121A			Disable interrupts failed. Module 20.
E8b1	A-A1N2	99	0121A			One of interrupt 1 through 4 failed. Module 20.
E8b2	A-A1N2	99	0121A			Load/sense of run control byte failed. Module 21.
E8b3	A-A1N2	10	0190A			Self test complete in CSP but failure to continue IPL.
	A-A1H2	10				
	A-A1E2/	10				
	A-A2E2					
	A-A1K2	10				Go to map 0190, Entry Point A to isolate FRU.
	A-A3S2	10				
	A-A3P2	10				
	A-A1L2	10				
	A-A2J2	10				
	X-Over	10				
	A-A1M2	1				
E900	A-A1N2	86				A failure occurred before load routine 09.
	A-A1P2	7				
	A-A1M2	5				
E909	A-A1N2	99			CN-100	CSP diagnostics test LA1-DEC by 1.
E910	A-A1N2	99			CN-100	CSP diagnostics test LA1-INC by 1.

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MAP 0116-106

System Reference Codes

MAP 0116-107

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E911	A-A1N2	99				CN-100	CSP diagnostics test LA2-DEC by 1.
E912	A-A1N2	99				CN-100	CSP diagnostics add reg LA2 2 bytes + 1 byte.
E913	A-A1N2	99				CN-100	CSP diagnostics add reg LA2 2 bytes.
E914	A-A1N2	99				CN-100	CSP diagnostics subtract regs - LA2 2 bytes.
E915	A-A1N2	99				CN-100	CSP diagnostics storage direct - read L.
E916	A-A1N2	99				Cn-100	CSP diagnostics storage direct - write ST.
E917	A-A1N2	99	0121A			CN-100	CSP diagnostics - load register from control store.
E918	A-A1N2	99				CN-100	CSP diagnostics reg to control store STC.
E919	A-A1N2	99	0121A			CN-100	CSP diagnostics. Sense and load channel register, sense CEB.
E920	A-A1N2	99	0121A			CN-100	CSP diagnostics. Reset, load, sense PCR.
E921	A-A1N2	99				CN-100	CSP diagnostics subtract Imm SI.
E922	A-A1N2	99				CN-100	CSP diagnostics inc reg by 1 LA2, 2 bytes.
E923	A-A1N2	99				CN-100	CSP diagnostics or regs LA1, 1 byte.
E924	A-A1N2	99				CN-100	CSP diagnostics and regs LA1, 1 byte.

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MAP 0116-107



System Reference Codes

MAP 0116-108

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E925	A-A1N2	99				CM-100	CSP diagnostics shift left logical LA1, 1 byte.
E990	A-A1N2	59	0105G			CL-1XX CH-1XX CK-1XX	A failure occurred while loading the CSIPL load 2 tests.  The channel terminator card can cause this SRC. It may be in one of 4 different locations, depending on the system configuration. A-A1B3, A-A2U3, A-A3U3 or A-A3U4.
	A-A1H2	30					
	A-A2K2	1					
	A-A1E2/	1					
	A-A2E2						
	A-A1C2/	1					
	A-A2C2						
	A-A1D2/	1					
	A-A2D2						
	A-A2S2/	1					
	A-A2T2	1					
	A-A2N2	1					
	A-A3S2	1					
	A-A2J2	1					
	A-A1K2	1					
	A-A3P2	1					
	Term	1					
EA26	A-A1N2	99				CN-100	CSP diagnostics X or LA1, 1 byte.
EA27	A-A1N2	99				CN-100	CSP diagnostics and comp-NCR LA1, 1 byte.
EA28	A-A1N2	99				CN-100	CSP diagnostics or comp-OCR LA1, 1 byte.
EA29	A-A1N2	99				CN-100	CSP diagnostics add reg - AR LA1, 1 byte.
EA30	A-A1N2	99				CN-100	CSP diagnostics sub reg - SR LA1, 1 byte.
EA31	A-A1N2	99				CN-100	CSP diagnostics add reg with carry - ACYR LA1, 1 byte.
EA32	A-A1N2	99				CN-100	CSP diagnostics sub reg with borrow - SCYR LA1, 1 byte.

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MAP 0116-108

**System Reference Codes**

MAP 0116-109

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EA36	A-A1N2	99				CN-100	CSP diagnostics XR LA2, 2 byte.
EA37	A-A1N2	99				CN-100	CSP diagnostics or LA2, 2 byte.
EA38	A-A1N2	99				CN-100	CSP diagnostics and reg LA2, 2 byte.
EA39	A-A1N2	99				CN-100	CSP diagnostics NCR LA2, 2 byte.
EA40	A-A1N2	99				CN-100	CSP diagnostics OCR LA2, 2 byte.
EA41	A-A1N2	99				CN-100	CSP diagnostics SLLD LA2, 2 byte.
EA42	A-A1N2	99				CN-100	CSP diagnostics sub reg - SR LA2, 2 byte.
EA43	A-A1N2	99				CN-100	CSP diagnostics SCYR LA2, 2 byte.
EA44	A-A1N2	99				CN-100	CSP diagnostics ACYR LA2, 2 byte.
EA45	A-A1N2	99				CN-100	CSP diagnostics hex move.
EA46	A-A1N2	99	0121A			CN-100	CSP diagnostics hex branch using numeric & zone field or register.
EA47	A-A1N2	99				CN-100	CSP diagnostics SRL/SRLD.
EA48	A-A1N2	99	0121A			CN-100	Control storage. Direct storage test.
EA49	A-A1N2	99				CN-100	CSP diagnostics move reg.
EA50	A-A1N2	99				CN-100	CSP diagnostics ZAR LA1, 1 byte.

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MAP 0116-109

**System Reference Codes**

MAP 0116-110

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EA51	A-A1N2	99				CN-100	CSP diagnostics MPLF G0,  Y0 ser reg.
EA53	A-A1N2	99				CN-100	CSP diagnostics MPLF flag  sense PCB, PEB.
EA55	A-A1N2	99	0121A		10-305	CN-100	I/O clocks test.
EA56	A-A1N2	99				CN-100	CSP diagnostics bank sel  reg test.
EA57	A-A1N2	90	0121A		10-305	CN-100	
EA59	A-A1N2	99	0121A			CN-100	Force SAR P check, X reg P  check, CS SAR check.
EA60	A-A1N2	99	0121A			CN-100	Force X reg P check, SDR  P check, MOR reg P check
EA61	A-A1N2	99	0121A			CN-100	Force not valid device  address check and sys bus  parity check.
EA63	A-A1N2	99				CN-100	CSP diagnostics CS block  test.
EA64	A-A1N2	99			10-305	CN-100	CSP diagnostics CS test.
EA81	A-A1N2	99	0121A			CN-100	CSP diagnostics LCH and  STCH.
EA82	A-A1N2	99				CN-100	CSP diagnostics CS test  LA1/LA2.
EA83	A-A1N2	99				CN-100	CSP diagnostics br  extended - BX.
EA84	A-A1N2	99				CN-100	CSP diagnostics BALX.
EA85	A-A1N2	99				CN-100	CSP diagnostics Compare  reg LA1/LA2.
EA86	A-A1N2	99				CN-100	CSP diagnostics DEC reg

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MAP 0116-110

System Reference Codes

MAP 0116-111

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						LA1/LA2.
EA87	A-A1N2	99				CN-100 CSP diagnostics fast   fetch ECC mem only.
EA88	A-A1N2	99				CN-100 CSP diagnostics base disp.
EA89	A-A1N2	99				CN-100 CSP diagnostics error correction ECC mem only.
EA90	A-A1N2	59	0105G			CN-100 A failure occurred while CH-1XX loading the CS IPL load 3 CL-1XX tests. CN-1XX MAP 0121 will isolate CK-1XX the failing FRU. Go to MAP 0105, Entry Point G.
	A-A1H2	30				
	A-A2K2	1				
	A-A1E2/	1				
	A-A2E2					
	A-A1C2/	1				
	A-A2C2					
	A-A1D2/	1				
	A-A2D2					
	A-A1K2	1				
	A-A2S2	1				
	A-A2T2	1				
	A-A2N2	1				
	A-A3S2	1				
	A-A3P2	1				
***** General CS IPL Diagnostic Reference Codes *****						
F000						The diskette inserted is not a CS IPL diskette.
F090	A-A1E2/	49	0105A			This code indicates that an error occurred while running the diskette bootstrap loader.
	A-A2E2					
	A-A1F2/	49				
	A-A2F2					
	A-A3S2	1				
	Diskete	1				
FFFF			0105A			The first byte of the load was not transferred. Go to hard copy MAP 0105, Entry Point A. This code is generated by hardware when the Load key is pressed.

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MAP 0116-111



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ENTRY POINTS

FROM	ENTER THIS MAP		
MAP NUMBER	ENTRY POINT	PAGE NUMBER	STEP NUMBER
0101	A	1	001

EXIT POINTS

EXIT THIS MAP		TO	
PAGE NUMBER	STEP NUMBER	MAP NUMBER	ENTRY POINT
3	003	0500	A
4	006	0500	A

001

(Entry Point A)

- Set CB1 to the On position (05-215)
- Press and hold the Power Status key.

MAP DESCRIPTION:

This MAP is a quick fix MAP. You have the option of replacing the FRUs in order of probability specified by the power reference codes or in proceeding with the MAP reference provided to decrease the number of probable FRUs.

- Be sure to read the ref code comment section for additional information about the problem and for further directions on how to do it.
- If the MAP specified does not decrease the FRUs called or if there is no MAP reference then replace the FRUs in order of probability.

If the FRUs are all replaced in the reference code group and machine is still failing the control supply may be bad.

START CONDITIONS:

- Perform a lamp test (see note 1) to verify that that all of the power LEDs are good for correct detection.
- If the lamp test fails, go to MAP 0584, Entry Point A. This MAP contains the temperature check and power reference codes 91 - FF.
- If the machine is dead or if you have a power ref code not listed in this MAP, go to MAP 0500, Entry Point A.

Note 1: A valid lamp test is defined by the following steps:

The Power Check, Temp Check, CS, UV, OC, UV/CU, 8, 4, 2 and 1 LEDS are all off before the lamp test occurs (except for a valid failure code).

(Step 001 continues)

(Step 001 continues)



## Power Reference Codes

MAP 0118-3

## 5360 Systems Unit

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(Step 002 continued)

Protect	10	05-320	YA-140	control
ContCb1	10	05-210	YA-110	panel.
ContCap	5	05-210	YA-110	
U M/bk	5	05-320	YA-140	Check
L M/bk	5	05-320	YA-140	CB1 and
JA1 cb1	2	05-220	YA-900	customer
JC3 cb1	2	05-220	YA-960	power
F8 Hodr	1	05-210	YA-100	first.

Did the quick-fix FRU table fix the problem?

Y N

003

Go To Map 0500, Entry Point A.

004

Stop, you have fixed the problem.

005

- Press and hold the Power Status key.
- Read the power reference code (see note 3).

Note 3: Reference codes are generated by the 8 LEDs on the power status part of the control panel.

- Press the Power Status key.

```

0 0 0 0 0 0 0 0
CS UV OC OV 8 4 2 1
      CU
POWER STATUS

```

- Translate the 8 Power Status LEDs to hexadecimal as shown in the examples below:

1 = LED On

0 = LED Off

Examples:

1 0 1 0 1 1 1 1 = AF

1 0 0 1 1 1 0 1 = 9D

(Step 005 continues)

(Step 005 continues)

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MAP 0118-3



Power Reference Codes

MAP 0118-4

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(Step 005 continued)

(Step 005 continued)
For alphabetical FRU listing,
part number, or FRU
description, go to Page 15,
Step 008, Entry Point B.

Does the power reference code fall between 91
and FF?

Y N

006

Go To Map 0500, Entry Point A.

007

- Use the quick-fix FRU tables given below to
determine the failing FRU.

\*\*\*\*\*
\*DANGER/CAUTION Before any FRU is replaced, perform action in
the BE SAFE note associated with that FRU.
Note 1: Disconnect the Line Cord.
Note 2: Set CB1 to the Off position.
Note 3: Set the Unit Emergency switch to the
Power Off position.
Note 4: Select Mode 6. Press the Power key
(power-off).
\*\*\*\*\*

Temperature Check: (obvious conditions)

- Fans not turning
- Thermal switches
- Obstruction to air flow (dirt)
- For power check and temperature check together, see power
ref code FF.

Table with 6 columns: Code, Description, Part No, Note, Part No, Description. Row 1: 91 | Protect | 50 | 0505A | \*NOTE2 | 05-320 | YA-140 | Cable unseated, base power supply.

(Step 007 continues)

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MAP 0118-4

Power Reference Codes

MAP 0118-5

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(Step 007 continued)

	J32 Jmp   2			*NOTE2	05-240	YA-170	
	B-A1 Bd   1			*NOTE2	10-325	CA-100	
	B-A2 Bd   1			*NOTE2	10-325	CA-120	
	U M/Bk   1			*NOTE2	05-320	YA-140	
-----							
92	Protect   79	0501A	*NOTE2	05-320	YA-140	The protect card or the	
	B-A1 Bd   10		*NOTE2	10-325	CA-100	control panel is bad.	
	B-A2 Bd   10		*NOTE2	10-325	CA-120		
	JA1cb1   1		*NOTE2	05-220	YA-900		
-----							
93	Protect   79	0501A	*NOTE2	05-320	YA-140	The protect card or the	
	B-A1 Bd   10		*NOTE2	10-325	CA-100	control panel is bad.	
	B-A2 Bd   10		*NOTE2	10-325	CA-120		
	JA1cb1   1		*NOTE2	05-220	YA-900		
-----							
94	Protect   79	0501A	*NOTE2	05-320	YA-140	The protect card or the	
	B-A1 Bd   10		*NOTE2	10-325	CA-100	control panel is bad.	
	B-A2 Bd   10		*NOTE2	10-325	CA-120		
	JA1cb1   1		*NOTE2	05-220	YA-900		
-----							
95	Protect   40	0551A	*NOTE2	05-320	YA-140	Overvoltage, -5V base	
	B5V Asm   30		*NOTE2	05-330	YA-150	power supply.	
	B PrAsm   20		*NOTE2	05-340	YA-170		
	JA3cb1   5		*NOTE2	05-220	YA-920		
	B Xmfr   3		*NOTE2	05-325	YA-150		
	U M/Bk   2		*NOTE2	05-320	YA-140		
-----							
96	Protect   50	0552A	*NOTE2	05-320	YA-140	Overvoltage, +8.5V/-12V	
	B PrAsm   45		*NOTE2	05-340	YA-170	base power supply.	
	JA3cb1   3		*NOTE2	05-220	YA-920		
	U M/Bk   2		*NOTE2	05-320	YA-140		
-----							
97	Protect   50	0553A	*NOTE2	05-320	YA-140	Overvoltage, base +1.7V	
	A3 1.7R   40		*NOTE2	05-335	YA-160	regulator.	
	JC3cb1   5		*NOTE2	05-220	YA-960		
	A1DCcb1   3		*NOTE2		YA-905		
	L M/Bk   2		*NOTE2	05-320	YA-140		

(Step 007 continues)

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MAP 0118-5

Power Reference Codes

MAP 0118-6

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(Step 007 continued)

98	Protect   40	0506A*	NOTE2   05-320   YA-140	Cable unseated, A2 power
	A2PrAsm   30		*NOTE2   05-365   YB-100	supply.
	A2 1.7R   20		*NOTE2   05-370   YB-200	
	JA2cb1   3		*NOTE2   05-220   YA-910	
	JA2crd   2		*NOTE2   05-220   YA-910	
	J59 Jmp   1		*NOTE3   05-250   YB-100	
	U M/Bk   1		*NOTE2   05-320   YA-140	
-----				
99	Protect   50	0555A*	NOTE2   05-320   YA-140	Overvoltage, A2 power
	A2PrAsm   40		*NOTE2   05-365   YB-100	supply.
	JA2cb1   5		*NOTE2   05-220   YA-910	
	A2 Xmfr   2		*NOTE2   05-365   YB-100	
	A2 Cap   1		*NOTE2   05-365   YB-100	
	U M/Bk   1		*NOTE2   05-320   YA-140	
	E12wire   1		*NOTE2   05-365   YB-100	
-----				
9A	Protect   79	0501A*	NOTE2   05-320   YA-140	The protect card or the
	B-A1 Bd   10		*NOTE2   10-325   CA-100	control panel is bad.
	B-A2 Bd   10		*NOTE2   10-325   CA-120	
	JA1cb1   1		*NOTE2   05-220   YA-900	
-----				
9B	Protect   50	0556A*	NOTE2   05-320   YA-140	Overvoltage, A2 +1.7V
	A2 1.7R   45		*NOTE2   05-370   YB-200	regulator.
	JA2cb1   2		*NOTE2   05-220   YA-910	
	A2DCcb1   2		*NOTE2     YB-905	
	U M/Bk   1		*NOTE2   05-320   YA-140	
-----				
9C	A3PrAsm   86	0507A*	NOTE2   05-375   YC-100	Cable unseated, A3 power
	Protect   7		*NOTE2   05-320   YA-140	supply.
	JA4cb1   1		*NOTE2   05-220   YA-930	
	JA4crd		*NOTE2   05-220   YA-930	
	J71 Jmp   1		*NOTE2   05-260   YC-100	
	J76 Jmp   1		*NOTE2   05-260   YC-100	
	U M/Bk   1		*NOTE2   05-320   YA-140	
	A3 1.7R   1			
	1.7Vcb1   1			
-----				
9D	A3PrAsm   60	0532A*	NOTE2   05-375   YC-100	Overvoltage, A3 power
	A3 1.7R   33			supply.

(Step 007 continues)

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MAP 0118-6

Power Reference Codes

MAP 0118-7

5360 Systems Unit

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(Step 007 continued)

	Protect	2		*NOTE2	05-320	YA-140	
	JA4cb1/	1		*NOTE2	05-220	YA-930	
	JA4crd			*NOTE2	05-220	YA-930	
	A3DCcb1	1		*NOTE2		YC-905	Any of these FRUs
	E14wire	1		*NOTE2	05-375	YC-100	can blow fuse 4.
	U M/Bk	1		*NOTE2	05-320	YA-140	
	1.7Vcb1	1					
-----							
9E	Protect	50	0508A	*NOTE2	05-320	YA-140	Cable unseated, Expansion
	ExPrAsm	40		*NOTE2	05-378	YD-100	power supply.
	JC2crd	7		*NOTE2	05-220	YA-950	
	JC2cb1	1		*NOTE2	05-220	YA-950	
	J90 Jmp	1		*NOTE2	05-290	YD-100	
	L M/Bk	1		*NOTE2	05-320	YA-140	
-----							
9F	Protect	44	0592A	*NOTE2	05-320	YA-140	Overvoltage, Expansion
	ExPrAsm	38		*NOTE2	05-378	YD-100	power supply.
	JC2cb1	5		*NOTE2	05-220	YA-950	
	JC2crd	4		*NOTE2	05-220	YA-950	
	J90 Jmp	4		*NOTE2	05-290	YD-100	
	Ex Xmfr	3		*NOTE2	05-377	YD-100	
	Ex Cap	1		*NOTE2	05-205	YD-100	
	L M/Bk	1		*NOTE2	05-320	YA-140	
-----							
A1	Protect	79	0501A	*NOTE2	05-320	YA-140	The protect card or the
	B-A1 Bd	10		*NOTE2	10-325	CA-100	control panel is bad.
	B-A2 Bd	10		*NOTE2	10-325	CA-120	
	JA1cb1	1		*NOTE2	05-220	YA-900	
-----							
A2	Protect	20	0535A	*NOTE2	05-320	YA-140	Overcurrent, +5V base
	A1 crds	20		*NOTE4		AB-100	power supply.
	21 DDC	8		*NOTE4	95-335	GC-601	
	21 cb1	8		*NOTE2		YA-170	The load is probably the
	B-A1 Bd	8		*NOTE2	10-325	CA-100	problem.
	B-A2 Bd	8		*NOTE2	10-325	CA-120	
	51 DCC/	8		*NOTE4	91-230	EA-750	
	72 DCC			*NOTE4	93-225	EA-700	
	B PrAsm	5		*NOTE2	05-340	YA-170	
	B5V Asm	5		*NOTE2	05-330	YA-150	
	51 cb1/	4		*NOTE4		YA-170	

(Step 007 continues)

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MAP 0118-7

Power Reference Codes

MAP 0118-8

5360 Systems Unit

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(Step 007 continued)

	72 cb			*NOTE4	YA-170	
	A-A1 Bd	2		*NOTE4	AE-100	
	A1DCcb	2		*NOTE2	YA-905	
	JA3cb	2		*NOTE2	05-220	YA-920
	J32 Jmp	2		*NOTE3	05-240	YA-170
	B Xmfr	1		*NOTE2	05-325	YA-150
-----						
A3	Protect	30	0536A	*NOTE2	05-320	YA-140
	A1 crds	25		*NOTE4	AB-100	Overcurrent, +12V base
	B PrAsm	16		*NOTE2	05-340	power supply.
	A1DCcb	15		*NOTE2	YA-905	The load is probably
	A-A1 Bd	5		*NOTE4	AE-100	the problem.
	JA3cb	5		*NOTE2	05-220	YA-920
	J32 Jmp	2		*NOTE2	05-240	YA-170
	B Xmfr	1		*NOTE2	05-325	YA-150
	U M/Bk	1		*NOTE2	05-320	YA-140
-----						
A4	Protect	23	0537A	*NOTE2	05-320	YA-140
	51 DCC/	20		*NOTE4	91-230	EA-750
	72 DCC			*NOTE4	93-225	EA-700
	21 DDC	20		*NOTE4	95-335	GC-601
	51 cb1/	10		*NOTE4	YA-170	The load is probably
	72 cb1			*NOTE4	YA-170	the problem.
	21 cb1	10		*NOTE2	YA-170	
	B PrAsm	10		*NOTE2	05-340	YA-170
	U M/Bk	3		*NOTE2	05-320	YA-140
	JA3cb	2		*NOTE2	05-220	YA-920
	B Xmfr	1		*NOTE2	05-325	YA-150
	J32 Jmp	1		*NOTE2	05-240	YA-170
-----						
A5	Protect	21	0538A	*NOTE2	05-320	YA-140
	A1 crds	20		*NOTE4	AB-100	Overcurrent, -5V base
	51 DCC/	19		*NOTE4	91-230	EA-750
	72 DCC			*NOTE4	93-225	EA-700
	B PrAsm	19		*NOTE2	05-340	YA-170
	A1DCcb	10		*NOTE2	YA-905	The load is probably
	51 cb1/	05		*NOTE4	YA-170	the problem.
	72 cb1			*NOTE4	YA-170	
	A-A1 Bd	2		*NOTE4	AE-100	
	JA3cb	2		*NOTE2	05-220	YA-920
	B Xmfr	1		*NOTE2	05-325	YA-150

(Step 007 continues)

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 MAP 0118-8

Power Reference Codes

MAP 0118-9

5360 Systems Unit

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(Step 007 continued)

	U M/Bk	1		*NOTE2	05-320	YA-140	
-----							
A6	Protect	35	0539A	*NOTE2	05-320	YA-140	Overcurrent, +8.5V/-12V
	A1 crds	30		*NOTE4		AB-100	base power supply.
	B PrAsm	18		*NOTE2	05-340	YA-170	
	A1DCcb1	10		*NOTE2		YA-905	The load is probably
	A-A1 Bd	3		*NOTE4		AE-100	the problem.
	JA3cb1	3		*NOTE2	05-220	YA-920	
	U M/Bk	1		*NOTE2	05-320	YA-140	
-----							
A7	Protect	33	0540A	*NOTE2	05-320	YA-140	Overcurrent, base +1.7V
	A1 crds	30		*NOTE4		AB-100	regulator.
	A3 1.7R	17		*NOTE2	05-335	YA-160	
	A1DCcb1	15		*NOTE2		YA-905	The load is probably
	A-A1 Bd	2		*NOTE4		AE-100	the problem.
	JC3cb1	2		*NOTE2	05-220	YA-960	
	L M/Bk	1		*NOTE2	05-320	YA-140	
-----							
A8	Protect	79	0501A	*NOTE2	05-320	YA-140	The protect card or the
	B-A1 Bd	10		*NOTE2	10-325	CA-100	control panel is bad.
	B-A2 Bd	10		*NOTE2	10-325	CA-120	
	JA1cb1	1		*NOTE2	05-220	YA-900	
-----							
A9	Protect	30	0527A	*NOTE2	05-320	YA-140	Overcurrent, A2 power
	21 DDC/	30		*NOTE4	95-335	GC-601	power supply.
	10 A1			*NOTE4	97-225	AE-400	
	21 cb1/	15		*NOTE2		YA-170	The load is probably
	10 cb1			*NOTE2		YB-100	the problem.
	A2PrAsm	15		*NOTE2	05-365	YB-100	
	JA2cb1/	6		*NOTE2	05-220	YA-910	
	JA2crd			*NOTE2	05-220	YB-910	
	A2 Xmfr	2		*NOTE2	05-365	YB-100	
	A2 Cap	1		*NOTE2	05-365	YB-100	
	U M/Bk	1		*NOTE2	05-320	YA-140	
-----							
AA	Protect	35	0528A	*NOTE2	05-320	YA-140	Overcurrent, any +5V A2
	A1 crds	30		*NOTE4		AB-200	power supply.
	A2PrAsm	14		*NOTE2	05-365	YB-100	
	A2 1.7R	14		*NOTE2	05-370	YB-200	The load is probably

(Step 007 continues)

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MAP 0118-9

Power Reference Codes

MAP 0118-10

5360 Systems Unit

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(Step 007 continued)

	A1DCcb1	2		*NOTE2		YB-905	the problem.
	A-A2 Bd	1		*NOTE4		AB-200	
	JA2cb1	1		*NOTE2	05-220	YA-910	
	J59 Jmp	1		*NOTE3	05-250	YB-100	
	A2 Xmfr	1		*NOTE2	05-365	YB-100	
	U M/Bk	1		*NOTE2	05-320	YA-140	
-----							
AB	Protect	31	0529A	*NOTE2	05-320	YA-140	Overcurrent, A2 +1.7V
	A2 crds	30		*NOTE4		AB-200	regulator.
	A2 1.7R	28		*NOTE2	05-370	YB-200	
	JA2cb1	5		*NOTE2	05-220	YA-910	The load is probably
	JA2crd	2		*NOTE2	05-220	YA-910	the problem.
	A-A2 Bd	2		*NOTE4		AB-200	
	A2DCcb1	1		*NOTE2		YB-905	
	U M/Bk	1		*NOTE2	05-320	YA-140	
-----							
AC	Protect	79	0501A	*NOTE2	05-320	YA-140	The protect card or the
	B-A1 Bd	10		*NOTE2	10-325	CA-100	control panel is bad.
	B-A2 Bd	10		*NOTE2	10-325	CA-120	
	JA1cb1	1		*NOTE2	05-220	YA-900	
-----							
AD	A3PrAsm	50	0533A	*NOTE2	05-375	YC-100	Overcurrent, A3 power
	A3 1.7R	20					supply.
	A3 crds	10		*NOTE4		AB-310	
	A3DCcb1	5		*NOTE2		YC-905	
	A3 Xmfr	5		*NOTE2	05-375	YC-100	The load is probably
	Protect	5		*NOTE2	05-320	YA-140	the problem.
	JA4cb1/	3		*NOTE2	05-220	YA-930	
	JA4crd			*NOTE2	05-220	YA-930	
	A-A3 Bd	1		*NOTE4		AB-310	
	J76 Jmp	1		*NOTE2	05-260	YC-100	
	U M/Bk	1		*NOTE2	05-320	YA-140	
	1.7Vcb1	1					
	J71 jmp	1					
-----							
AE	Protect	79	0501A	*NOTE2	05-320	YA-140	The protect card or the
	B-A1 Bd	10		*NOTE2	10-325	CA-100	control panel is bad.
	B-A2 Bd	10		*NOTE2	10-325	CA-120	
	JA1cb1	1		*NOTE2	05-220	YA-900	

(Step 007 continues)

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MAP 0118-10

Power Reference Codes

MAP 0118-11

5360 Systems Unit

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(Step 007 continued)

AF	Protect	35	0593A	*NOTE2	05-320	YA-140	Overcurrent, Expansion
	21 DDC/	30		*NOTE4	95-335	GC-601	power supply.
	10 bd			*NOTE4	97-225	AE-400	
	ExPrAsm	15		*NOTE2	05-378	YD-100	The load is probably
	21 cb1/	10		*NOTE2		AA-101	the problem.
	10 cb1						
	JC2cb1/	5		*NOTE2	05-220	YA-950	
	JC2crd			*NOTE2	05-220	YA-950	
	Ex Xmfr	2		*NOTE2	05-377	YD-100	
	Ex Cap	2		*NOTE2	05-205	YD-100	
	L M/Bk	1		*NOTE2	05-320	YA-140	

C0	Protect	90	0501A	*NOTE2	05-320	YA-140	The protect card or the
	JA1cb1	5		*NOTE2	05-220	YA-900	JA1 cable is bad.
	U M/Bk	5		*NOTE2	05-320	YA-140	

\*\*\*\*\* Note: If the Unit Emergency switch is Off and a  
 \*\*\*\*\* power-on is attempted, C1 error condition will set.  
 \*\*\*\*\* (This is not a power problem. To clear the error,  
 \*\*\*\*\* set CB1 to the Off position, then to the On position).

C1	Fuse 2/	33	0512A	*NOTE2	05-315	YA-100	Undervoltage, (all) base
	Fuse 6			*NOTE2	05-315	YA-100	power supply.
	Protect	30		*NOTE2	05-320	YA-140	
	RelayK1	10		*NOTE1	05-315	YA-100	Any of these FRUs
	AC cb1	5		*NOTE1	05-315	YA-100	can blow fuse 2 or 6.
	A1DCcb1	5		*NOTE2		YA-905	
	JC3 cb1	4		*NOTE2	05-220	YA-920	
	Contcb1	3		*NOTE1	05-315	YA-100	
	B Xmfr	2		*NOTE2	05-325	YA-150	
	J59 Jmp	2		*NOTE3	05-250	YB-100	
	B ACcap	2		*NOTE2		YA-150	
	L M/Bk	2		*NOTE2	05-320	YA-140	
	F2 Hodr	1		*NOTE1	05-315	YA-100	
	K1diode	1		*NOTE1	05-315	YA-100	

\*\*\*\*\* Note: If the Unit Emergency switch is used to power-off  
 \*\*\*\*\* the system, C2 error condition will probably occur.  
 \*\*\*\*\* (This is not a power problem. To clear the error,  
 \*\*\*\*\* set CB1 to the Off position, than to the On position).

C2	Protect	40	0542A	*NOTE2	05-320	YA-140	Undervoltage, +5V base
	B5V Asm	30		*NOTE2	05-330	YA-150	power supply.

(Step 007 continues)

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MAP 0118-11



**Power Reference Codes**

MAP 0118-12

**5360 Systems Unit**

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(Step 007 continued)

	B PrAsm	20		*NOTE2	05-340	YA-170	
	JA3cb1	5		*NOTE2	05-220	YA-920	
	B Xmfr	3		*NOTE2	05-325	YA-150	
	U M/Bk	2		*NOTE2	05-320	YA-140	
-----							
C3	Protect	45	0543A	*NOTE2	05-320	YA-140	Undervoltage, +12V base
	B PrAsm	45		*NOTE2	05-340	YA-170	power supply.
	JA3cb1	5		*NOTE2	05-220	YA-920	
	B Xmfr	3		*NOTE2	05-325	YA-150	
	U M/Bk	2		*NOTE2	05-320	YA-140	
-----							
C4	Protect	45	0544A	*NOTE2	05-320	YA-140	Undervoltage, +24V base
	B PrAsm	45		*NOTE2	05-340	YA-170	power supply.
	JA3cb1	5		*NOTE2	05-220	YA-920	
	B Xmfr	3		*NOTE2	05-325	YA-150	
	U M/Bk	2		*NOTE2	05-320	YA-140	
-----							
C5	Protect	45	0545A	*NOTE2	05-320	YA-140	Undervoltage, -5V base
	B PrAsm	45		*NOTE2	05-340	YA-170	power supply.
	JA3cb1	5		*NOTE2	05-220	YA-920	
	B Xmfr	3		*NOTE2	05-325	YA-150	
	U M/Bk	2		*NOTE2	05-320	YA-140	
-----							
C6	Protect	45	0546A	*NOTE2	05-320	YA-140	Undervoltage, +8.5V/-12V
	B PrAsm	45		*NOTE2	05-340	YA-170	base power supply.
	JA3cb1	5		*NOTE2	05-220	YA-920	
	B Xmfr	3		*NOTE2	05-325	YA-150	
	U M/Bk	2		*NOTE2	05-320	YA-140	
-----							
C7	Protect	30	0548A	*NOTE2	05-320	YA-140	Undervoltage, base +1.7V
	A3 1.7R	29		*NOTE2	05-335	YA-160	regulator.
	B5V Asm	26		*NOTE2	05-330	YA-150	
	JC3cb1	9		*NOTE2	05-220	YA-920	
	B Xmfr	2		*NOTE2	05-325	YA-150	
	L M/Bk	2		*NOTE2	05-220	YA-140	
	J59 Jmp	1		*NOTE3	05-250	YB-100	
	E11wire	1		*NOTE2	05-335	YA-160	
-----							

(Step 007 continues)

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MAP 0118-12

Power Reference Codes

MAP 0118-13

5360 Systems Unit

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(Step 007 continued)

C8	Fuse 3	30	0515A	*NOTE2	05-315	YA-100	Undervoltage, (all) A2
	Protect	28		*NOTE2	05-320	YA-140	power supply.
	A2PrAsm	25		*NOTE2	05-365	YB-100	
	JA2cb1	7		*NOTE2	05-220	YA-910	Any of these FRUs
	JA2crd	2		*NOTE2	05-220	YA-910	can blow fuse 3.
	AC cb1	2		*NOTE1	05-210	YA-100	
	A2 Xmfr	2		*NOTE2	05-365	YB-100	
	A2 Cap	1		*NOTE2	05-365	YB-100	
	F3 Hodr	1		*NOTE1	05-315	YA-100	
	U M/Bk	1		*NOTE2	05-320	YA-140	
	E12wire	1		*NOTE2	05-365	YB-100	

C9	Protect	47	0516A	*NOTE2	05-320	YA-140	Undervoltage, A2 power
	A2PrAsm	40		*NOTE2	05-365	YB-100	supply.
	JA2cb1	7		*NOTE2	05-220	YA-910	
	JA2crd	2		*NOTE2	05-220	YA-910	
	A2 Xmfr	2		*NOTE2	05-365	YB-100	
	A2 Cap	1		*NOTE2	05-365	YB-100	
	U M/Bk	1		*NOTE2	05-320	YA-140	

CA	Protect	79	0501A	*NOTE2	05-320	YA-140	The protect card or the
	B-A1 Bd	10		*NOTE2	10-325	CA-100	control panel is bad.
	B-A2 Bd	10		*NOTE2	10-325	CA-120	
	JA1cb1	1		*NOTE2	05-220	YA-900	

CB	Protect	48	0518A	*NOTE2	05-320	YA-140	Undervoltage, A2 +1.7V
	A2 1.7R	45		*NOTE2	05-370	YB-200	regulator.
	JA2cb1	2		*NOTE2	05-220	YA-910	
	JA2crd	2		*NOTE2	05-220	YA-910	
	A2DCcb1	2		*NOTE2		YB-905	
	U M/Bk	1		*NOTE2	05-320	YA-140	

CC	A3 Xmfr	70	0530A	*NOTE2	05-375	YC-100	Undervoltage, (all) A3
	A3 Cap	20		*NOTE2	05-375	YC-100	power supply.
	AC cb1	5		*NOTE1	05-210	YA-100	
	A3PrAsm	3		*NOTE2	05-375	YC-100	Any of these FRUs
	Fuse 4	1		*NOTE2	05-315	YA-100	can blow fuse 4.
	F4 Hodr	1		*NOTE1	05-315	YA-100	

(Step 007 continues)

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MAP 0118-13

Power Reference Codes

MAP 0118-14

5360 Systems Unit

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(Step 007 continued)

CD	A3PrAsm	70	0531A	*NOTE2	05-375	YC-100	Undervoltage, A3 power supply.
	A3.7V R	10					
	A3 Xmfr	5		*NOTE2	05-375	YC-100	
	Protect	7		*NOTE2	05-320	YA-140	Any of these FRUs can blow fuse 4.
	JA4cb1	2		*NOTE2	05-220	YA-930	
	JA4crd	2		*NOTE2	05-220	YA-930	
	1.7Vcb1	2					
	A3DCcb1	1					
	AC cb1	1		*NOTE1	05-210	YA-100	
	F4 Hodr	1		*NOTE1	05-315	YA-100	
	U M/Bk	1		*NOTE2	05-320	YA-140	
-----							
CE	Fuse 5	31	0590A	*NOTE2	05-315	YA-100	Undervoltage, all levels Expansion power supply.
	Protect	29		*NOTE2	05-320	YA-140	
	ExPrAsm	27		*NOTE2	05-378	YD-100	
	JC2cb1	3		*NOTE2	05-220	YA-950	
	JC2crd	2		*NOTE2	05-220	YA-950	
	Ex Xmfr	2		*NOTE2	05-377	YD-100	Any of these FRUs could blow fuse 5.
	Ex Cap	2		*NOTE2	05-205	YD-100	
	AC cb1	2		*NOTE1	05-210	YA-100	
	F5 Hodr	1		*NOTE1	05-315	YA-100	
	L M/Bk	1		*NOTE2	05-320	YA-140	
-----							
CF	Protect	48	0591A	*NOTE2	05-320	YA-140	Undervoltage, Expansion power supply.
	ExPrAsm	40		*NOTE2	05-378	YD-100	
	JC2cb1	6		*NOTE2	05-220	YA-950	
	JC2crd	2		*NOTE2	05-220	YA-950	
	Ex Xmfr	2		*NOTE2	05-377	YD-100	
	Ex Cap	1		*NOTE2	05-205	YD-100	
	L M/Bk	1		*NOTE2	05-320	YA-140	
-----							
FF	Thermal	30	0582A	*NOTE2	05-205	YA-130	Perform the lamp test as given in the start conditions.
	Protect	25		*NOTE2	05-320	YA-140	
	AC cb1	15		*NOTE1	05-210	YA-100	
	FanGate	15		*NOTE2	05-205	YA-115	A temperature check has occurred with the power check.
	Fan Pwr	10		*NOTE2	05-205	YA-105	
	JC3cb1	3		*NOTE2	05-220	YA-960	
	L M/Bk	2		*NOTE2	05-320	YA-140	(Also see temperature check section for obvious causes of the check).
	---or---						--- or ---
	Noise	60					
	Protect	40		*NOTE2	05-320	YA-140	

(Step 007 continues)

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MAP 0118-14



009

Stop, you have fixed the machine.

008

(Entry Point B)

FRU	Part Number	FRU Description
A1 crds	xxxxxxx	Any Card on the A-A1 board
A1DCcbl	2595275	DC Distribution Cable (A-A1 board)
A2 1.7R	2777308	A2 1.7V Regulator Assembly
A2 crds	xxxxxxx	Any Card on the A-A2 board
A2 Cap	5252843	A2 AC Capacitor (60HZ)
A2 Cap	8279052	A2 AC Capacitor (50HZ)
A2DCcbl	8636634	DC Distribution Cable (A-A2 board)
A2PrAsm	2777307	A2 Power Assembly
A2 Xmfr	2777343	A2 Transformer (60HZ)
A2 Xmfr	2777344	A2 Transformer (50HZ)
A3 crds	xxxxxxx	Any Card on the A-A3 board
A3 Cap	6814312	A3 AC Capacitor (60-50HZ)
A3DCcbl	2597892	DC Distribution Cable (A-A3 board)
A3PrAsm	5565080	A3 Power Assembly (60Hz)
A3PrAsm	5564935	A3 Power Assembly (50Hz)
A3FrAsm	5564641	A3 Filter Assembly
A3 Xmfr	5565055	A3 Transformer (60HZ)
A3 Xmfr	5565054	A3 Transformer (50HZ)
A3 1.7V	5565076	A3 1.7-Volt Regulator/Preload Assembly
A-A1 Bd	xxxxxxx	A-A1 Logic Board
A-A2 Bd	xxxxxxx	A-A2 Logic Board
A-A3 Bd	xxxxxxx	A-A3 Logic Board
AC cbl	8636633	AC Distribution Cable
B1.7V R	2777306	Base 1.7V Regulator
B5V Asm	2777327	Base 5V Assembly
B-A1 Bd	xxxxxxx	Control Panel (B-A1 driver board)
B-A2 Bd	xxxxxxx	Control Panel (B-A2 display board)
B ACcap	5252843	Base AC Capacitor (60HZ)
B ACcap	8279052	Base AC Capacitor (50HZ)
B PrAsm	2777380	Base Power Assembly
B Xmfr	2777341	Base Transformer (60HZ)
B Xmfr	2777342	Base Transformer (50HZ)
Contcbl	8636627	Control Supply Cable Assembly (AC box)
DCGnBd	2777428	DC Ground Board

(Step 009 continues)

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MAP 0118-16

**Power Reference Codes**

MAP 0118-17

**5360 Systems Unit**

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(Step 009 continued)

FRU	Part Number	FRU Description
Ex Cap	8279052	Expansion AC Capacitor (60/50HZ)
ExPrAsm	2777304	Expansion Power Assembly
Ex Xmfr	2777347	Expansion Transformer (60HZ)
Ex Xmfr	2777348	Expansion Transformer (50HZ)
E11wire	2777398	E11 Ground Wire Assembly (base 1.7 volt regulator)
E12wire	5758625	E12 Ground Wire Assembly (A2 power)
E13wire	2777409	E13 Ground Wire Assembly (A2 1.7 volt regulator)
E14wire	2777297	E14 Ground Wire Assembly (A3 power)
E16wire	xxxxxxx	E16 Ground Wire Assembly (Expansion)
FanGate	2777396	Gate Fan (60HZ) in fan box assembly
FanGate	2777465	Gate Fan (50HZ) in fan box assembly
Fan Pwr	2777396	Base Power Fan (60HZ)
Fan Pwr	2777465	Base Power Fan (50HZ)
Fuse 2	2495463	Fuse 2 (AC voltage to base supply 7 ampere)
Fuse 3	107666	Fuse 3 (AC voltage to A2 supply 5 5 ampere)
Fuse 4	2495470	Fuse 4 (AC voltage to A3 supply 3.5 ampere)
Fuse 5	2495471	Fuse 5 (AC Voltage to Expansion 4.5 ampere)
Fuse 6	855253	Fuse 6 (+24V control supply 1 ampere)
F2 Hodr	92752	Fuse 2 Fuse holder
F3 Hodr	92752	Fuse 3 Fuse holder
F4 Hodr	92752	Fuse 4 Fuse holder
F5 Hodr	92752	Fuse 5 Fuse holder
JA1cb1	4233963	JA1 Cable Assembly
JA2cb1	8636649	JA2 Cable Assembly
JA2crd	2777318	JA2 Jumper Card Assembly
JA3cb1	4233964	JA3 Cable Assembly
JA4cb1	8636654	JA4 Cable Assembly
JA4crd	2777318	JA4 Jumper Card Assembly
JC2cb1	xxxxxxx	JC2 Cable Assembly
JC2crd	2777318	JC2 Jumper Card Assembly
JC3cb1	8636651	JC3 Cable Assembly
J32 Jmp	2777418	J32 Jumper Assembly
J59 Jmp	2777372	J59 Jumper Assembly
J76 Jmp	2777372	J76 Jumper Assembly
J90 Jmp	2777418	J90 Jumper Assembly
K1diode	5565215	K1 Diode Assembly (AC box)

(Step 009 continues)

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MAP 0118-17

**Power Reference Codes**

MAP 0118-18

**5360 Systems Unit**

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(Step 009 continued)

FRU	Part Number	FRU Description
L M/Bk	2777420	Lower Maple Block
Protect	2777424	Protect Card
RelayK1	2775241	Relay K1 (AC box)
-----	-----	-----
Thermal	5428337	Power Thermal Switch
Thermal	5468294	Gate Thermal Switch
U M/Bk	2777475	Upper Maple Block
1.7V cb1	2777425	1.7-volt Regulator/Preload Sense/Control Cable (from J30 to J74)
10 A1	xxxxxxx	10SR Disk Drive Board Assembly
10 cb1	xxxxxxx	10SR Disk Drive DC Distribution Cable
21 cb1	8636643	21ED Disk Drive DC Cable Assembly
21 DDC	xxxxxxx	21ED Disk Drive Driver Card
51 cb1	8636635	51TD Diskette Drive DC Distribution Cable Assembly
51 DCC	xxxxxxx	51TD Diskette Drive Control Card.
72 cb1	8636648	72MD Diskette Drive DC Distribution Cable Assembly
72 DCC	xxxxxxx	72MD Diskette Drive Control Card.

- Use parts catalog or FLD's for part numbers not listed above.

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MAP 0118-18

5360 Systems Unit

ENTRY POINTS

FROM	ENTER THIS MAP		
MAP NUMBER	ENTRY POINT	PAGE NUMBER	STEP NUMBER
0101	A	1	001
0105	A	1	001

EXIT POINTS

EXIT THIS MAP		TO	
PAGE NUMBER	STEP NUMBER	MAP NUMBER	ENTRY POINT
8	044	0190	A
9	047	0190	A
10	049	0190	A
11	053	0190	A
2	006	0511	A
2	002	0599	A
13	062	0599	B
12	059	0599	C
11	055	1104	A
12	057	1701	A

001

(Entry Point A)

The MAP verifies that the proper voltages are being supplied to the boards first.

- Measure the voltages on the A-A1 board as shown in chart A1.

Chart A1

Nominal DC Voltage	Minimum DC Voltage	Probe Point
+5.0Vdc	+4.55Vdc	A-A1R2D03
-5.0Vdc	-4.55Vdc	A-A1J2B06
-12.0Vdc	-10.8Vdc	A-A1G2D07*
-12.0Vdc	-10.8Vdc	A-A1K2M11@
gnd	gnd	A-A1R2D08
+8.5Vdc	+7.68Vdc	A-A1H2M11
+1.7Vdc	+1.67Vdc	A-A1P2B09

\* Probe this pin only when a card is in the A-A1G2 slot.

@ Probe this pin only when a (Step 001 continues)

MAP DESCRIPTION:

This MAP checks basic CSP functions to determine if voltage or the CSP is causing CSIPL start failures.

START CONDITIONS:

CSIPL failed from both disk and diskette leaving FFFF in the control panel display.

FRUs PARTIALLY TESTED:

None



**CSIPL Start CSP/Channel**

**5360 Systems Unit**

PAGE 2 OF 13

(Step 001 continued)

card is in the A-A1K2 slot  
AND no card in A-A1G2.

**Do all the voltages on the A-A1 board measure more than the minimum as shown in chart A1?**

Y N

**002**

Go To Map 0599, Entry Point A.

**003**

When 21ED disks are installed in the system, +24 Vdc is used by both the disk and diskette units.

If this voltage is bad the symptom will be: you are unable to IPL from disk and from diskette.

**Does the system have 1 or more 21ED disks installed?**

Y N

**004**

Go to Step 007, Entry Point F.

**005**

- With power on, measure +24 Vdc on pin 3 of the J23 connector on the base power supply.

- Do not disconnect the diskette DC distribution cable from J23 to make the measurement.

**Does it measure at least +21.6 Vdc?**

Y N

**006**

- Suspect a bad base power assembly.

Go To Map 0511, Entry Point A.

**007**

(Entry Point F)

**Does the system have an A-A2 board?**

Y N

**008**

(Entry Point B)

**Does the system have an A-A3 board?**

Y N

1 1  
2 2  
A B C

C

MAP 0121-2

**009**

(Entry Point C)

Either the MSP Stop or the MSP Run light may be on but not both or they both can be off.

**Are the MSP Stop and the MSP Run lights both on?**

Y N

**010**

**Are there four (4) Top Card Connectors used on the A-A1M2 card?**

Y N

**011**

- Press the System Reset key.
- Select mode 0.
- Probe the following:

Up Light: On  
Down Light: Off

A-A1M2B12 (-IMPL cycle).

**Are the lights correct?**

Y N

**012**

One of the cards/cables in net (FLD CM100BB63) is bad.

- To determine failing card/cable:
- Power down.
- Unseat first card in list - see list below.
- Power up.
- Probe the following:

A-A1M2B12.

- If Up light is on and Down light is off, then card/cable last unseated is bad.

- If Up light is off and Down light is on, power down, reseat card and unseat next card/cable on list, power up and probe again.

- If all cards/cables on list have been unseated and Down light is still on, replace A-A1M2.

List:

(Step 012 continues)

1 4 3  
2 5 6  
D E F

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F  
2

**CSIPL Start CSP/Channel  
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(Step 012 continued)

- A-A2E2
- A-A2K2
- A-A2Y4
- A-A1E2
- A-A1Z1

**013**

- Probe the following:

Up Light: On  
Down Light: Off

If no 6157 adapter card installed, probe A-A1E2P07  
(- IPL Disk A)

---or---

If 6157 adapter card installed, probe A-A2E2P07  
(only one of these cards will be in the system)

**Are the lights correct?**

Y N

**014**

Bad card:

A-A1E2

---or---

A-A2E2

(only one of these cards will be in the system).

**015**

**Is there a card in A-A1Q2?**

Y N

**016**

- Probe the following:

Up Light: On  
Down Light: Off

A-A1N2P04 (- Base Cycle Steal Request)

**Are the lights correct?**

Y N

G H J

G H J

MAP 0121-3

**017**

One of the cards/cables in base cycle steal net  
(CNO20AC30) is bad. To determine failing  
card/cable:

- Power down.
- Unseat first card in list - see list below.
- Power up.
- Probe the following:

A-A1N2P04 - if Up light is on and Down light if  
off, then card/cable last unseated is bad.

- If Up light is off and Down light is on, power  
down, reseat card and unseat next card/cable  
on list, power up and probe again.

- If all cards/cables on list have been unseated  
and Down light is still on, replace A-A1N2.

List:

- A-A3S2
- A-A2Z4
- A-A2E2
- A-A2J2
- A-A1Z1
- A-A1H2
- A-A1E2
- A-A2T2
- A-A2S2
- A-A2N2
- A-A3P2

**018**

Go to Page 8, Step 043, Entry Point H.

**019**

- Probe the following:

Up Light: On  
Down Light: Off

A-A1N2S02 (- Base cycle steal request new).

**Are the lights correct?**

Y N

4 4  
K L

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MAP 0121-3

E K L  
2 3 3

## CSIPL Start CSP/Channel

MAP 0121-4

### 5360 Systems Unit

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#### 020

One of the cards/cables in base cycle steal net (K020AC30) is bad. To determine failing card/cable:

- Power down.
- Unseat first card in list - see list below.
- Power up.
- Probe the following:
  - A-A1N2S02 - if Up light is on and Down light is off, then card/cable last unseated is bad.
- If Up light is off and Down light is on, power down, reseat card and unseat next card/cable on list, power up and probe again.
- If all cards/cables on list have been unseated and Down light is still on, replace A-A1N2.

List:

A-A3S2  
A-A2Z4  
A-A2E2  
A-A2J2  
A-A1Z1  
A-A1H2  
A-A1E2  
A-A2T2  
A-A2S2  
A-A2N2  
A-A3P2

#### 021

Go to Page 8, Step 043, Entry Point H.

#### 022

The following is a test of the CSP function.

- Select mode 3.
- Press the System Reset key.
- Enter AA55.
- Press the CSP Start key.

These steps enter AA55 and then 55AA into the MAR and reads it back to see if MAR is working.

Is AA55 displayed in the display lights?

Y N

|||

5 5  
M N

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MAP 0121-4

M N  
4 4

**CSIPL Start CSP/Channel**

MAP 0121-5

**5360 Systems Unit**

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**023**

The CSP failed.

Go to Page 11, Step 051, Entry Point E.

**024**

- Enter 55AA.
- Press the CSP Start key.

**IS 55AA displayed in the display lights?**

Y N

**025**

The CSP failed.

Go to Page 11, Step 051, Entry Point E.

**026**

- Press the System Reset key.
- Select mode 4.
- Enter AA55.
- Press the CSP Start key.
- Enter 55AA.
- Press the CSP Start key.
- Press the System Reset key.
- Select mode 2.
- Press the CSP Start key.

**Is AA55 displayed in the display lights?**

Y N

**027**

**(Entry Point G)**

- Press the System Reset key.
- Select mode 0.
- Probe the following:

Up Light: 0n  
Down Light: 0ff

A-A1M2G10 (- IMPL cycle).

**Are the lights correct?**

Y N

7 6 6  
P Q R

These steps enter AA55 into control store location 0000 and 55AA into location 0001 and then reads them out.

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MAP 0121-5

Q R  
5 5

**CSIPL Start CSP/Channel**

**5360 Systems Unit**

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**028**

One of the cards/cables in net (FLD CM105AA58) is bad. To determine failing card/cable:

- Power down.
- Unseat first card in list - see list below.
- Power up.
- Probe the following:  
A-A1M2G10.
- If up light is on and down light is off, the card/cable last unseated is bad.
- If up light is off and down light is on, power down, reseat card and unseat next card/cable on list, power up and probe again.
- If all cards/cables on list have been unseated and down light is still on, replace A-A1M2.

List:

A-A2E2  
A-A2K2  
A-A2Y4  
A-A1E2  
A-A1Z1

**029**

- Probe the following:

Up Light: On  
Down Light: Off

A-A1E2P07 (- IPL Disk A)

---or---

A-A2E2P07

(only one of these cards will be in the system).

**Are the lights correct?**

**Y N**

**030**

Bad card:

A-A1E2

---or---

A-A2E2 (only one of these cards will be in the system).

S

MAP 0121-6

**031**

- Probe the following:

Up Light: On  
Down Light: Off

A-A1L2P09 (- base cycle steal request new).

**Are the lights correct?**

**Y N**

**032**

One of the cards/cables in base cycle steal net (CK020AC30) is bad. To determine failing card/cable:

- Power down.
- Unseat first card in list - see list below.
- Power up.

- Probe the following:

A-A1L2P09.

If up light is on and down light is off, the card/cable last unseated is bad.

- If up light is off and down light is on, power down, reseat card and unseat next card/cable on list, power up and probe again.
- If all cards/cables have been unseated and down light is still on, replace A-A1L2.

List:

A-A3S2  
A-A2Z4  
A-A2E2  
A-A2J2  
A-A1Z1  
A-A1H2  
A-A1E2  
A-A2S2  
A-A2T2  
A-A2N2  
A-A3P2

**033**

The CSP failed.

**Go to Page 11, Step 051, Entry Point E.**

S

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MAP 0121-6

**034**

- Press the CSP Start key.

**Is 55AA displayed in the display lights?**

**Y N**

**035**

The CSP failed.

**Go to Page 11, Step 051, Entry Point E.**

**036**

- Press the System Reset key.

- Select mode 4.

- Enter 0001.

- Press the CSP Start key.

- Enter A112.

- Press the CSP Start key.

- Enter A934.

- Press the CSP Start key.

- Enter 0000.

- Press the CSP Start key.

- Press the System Reset key.

- Select mode 0.

- Press the CSP Start key.

**Does the program run without getting a processor  
check light?**

**Y N**

**037**

The CSP failed.

**Go to Page 11, Step 051, Entry Point E.**

**038**

The following routine checks out the address bits:

- Select mode 4.

- Press the System Reset key.

- Enter 0001

- Press the CSP Start key.

- Enter A800

- Press the CSP Start key.

- Enter A007

- Press the CSP Start key.

- Enter A9FF

- Press the CSP Start key.

(Step 038 continues)

These steps enter a 4 step program and then cause the system to loop on it.

This program does a functional test on all CSP memory address lines.

**CSIPL Start CSP/Channel**

**5360 Systems Unit**

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(Step 038 continued)

- Enter A1FF
- Press the CSP Start key.
- Enter 41E8
- Press the CSP Start key.
- Enter 0005
- Press the CSP Start key.

**Is the system Processor Check light on?**

Y N

**039**

- Select mode 2.
- Press the System Reset key.
- Press the CSP Start key.

**Is 0001 displayed?**

Y N

**040**

Go to Page 11, Step 051, Entry Point E.

**041**

- Select mode 0.
- Press the CSP Start key.
- Processor Check light may or may not come on.
- Select mode 2.
- Press the System Reset key.
- Press the CSP Start key.

**Is 0001 displayed?**

Y N

**042**

Go to Page 11, Step 051, Entry Point E.

1  
I  
T U

U

MAP 0121-8

**043**

**(Entry Point H)**

The basic CSP functions are correct.

- Select mode 1.
- Press the System Reset key.
- Select mode E.
- Insert diskette DIAG21/41.
- Enter FF00.
- Press the Load key.
- Wait approximately 2 to 3 minutes for CSIPL sequence to complete.
- Display the CSP checks.
- Select mode 9. (CSP chks)

**Are there four (4) Top Card Connectors used on the A-A1M2 card?**

Y N

**044**

Go To Map 0190, Entry Point A.

**045**

**Is COXX displayed in the control panel hex lights (X = don't care)?**

Y N

1  
I  
V 9  
W

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MAP 0121-8

W  
8

**CSIPL Start CSP/Channel**  
**5360 Systems Unit**

MAP 0121-9

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046

Table 1

	Mode 9 CSP
A	00XX
B	01XX
C	10XX
D	90XX
E	CCXX
F	dCXX
G	ddXX

Does the control panel hex display match any CSP  
check entries in table 1 (ignore X characters)?

Y N

047

Go To Map 0190, Entry Point A.

1  
0  
X

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MAP 0121-9



X  
9

**CSIPL Start CSP/Channel**

MAP 0121-10

**5360 Systems Unit**

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048

- Note the letter to the left of the matching CSP check entry in table 1.
- Use this letter and go to table 2 to find all the channel check hex values with the same letter to the left of the entry (for example: the letter B produces 3 hex values from table 2 - 0008, 00FF & 0208).
- Record the matching hex value or values from table 2.
- Display channel checks.
- Select mode 8.

Table 2

	Mode 8
	Channel
A	0008
B	0008
B	00FF
B	0208
C	0008
D	0000
E	0008
F	0008
F	4408
G	0008

Does the control panel hex display match any of the recorded hex values?

Y N

049

Go To Map 0190, Entry Point A.

050

Go to Page 11, Step 051, Entry Point E.

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MAP 0121-10

**051****(Entry Point E)**

- Perform the following checks to see if the MSP is causing the CSP to fail.
- Select mode 6.
- Press the Power key (power off).
- Unseat A1P2, A1Q2.
- Press the Power key (power on).
- Select mode F.
- Enter FA02.
- Press the Load key.

**Is FA02 displayed in the display lights?**

**Y N**

**052**

- Select mode 6.
- Press the Power key (power off).
- Reseat A1P2, A1Q2 cards.
- Reinstall TCCs.

**Are there four (4) Top Card Connectors used on the A-A1M2 card?**

**Y N**

**053**

**Go To Map 0190, Entry Point A.**

**054**

- Replace the following cards:  
A-A1L2  
A-A1M2  
A-A1N2.

Either the CSP memory card or A-A1M2 or A-A1L2 or TCC is bad.

**055**

- Select mode 6.
- Press the Power key (power off).
- Reseat A1P2, A1Q2 cards.

**Go To Map 1104, Entry Point A.**

**056**

**Go to Step 051, Entry Point E.**

A B D  
2 2 2

**CSIPL Start CSP/Channel**

MAP 0121-12

**5360 Systems Unit**

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**057**

Go To Map 1701, Entry Point A.

**058**

- Measure the voltages on the A-A3 board as shown in chart A3.

Chart A3

Nominal DC Voltage	Minimum DC Voltage	Probe Point	
		1-4 line feature 4500	1-8 line feature 4550
+1.7Vdc	+1.67Vdc	A-A3S2M05	A-A3P2B05
+5.0Vdc	+4.55Vdc	A-A3S2D03	A-A3F2D03
-5.0Vdc	-4.55Vdc	A-A3M2B06	A-A3F2S06
+8.5Vdc	+7.68Vdc	A-A3M2B11	A-A3F2D07
-12.0Vdc	-10.8Vdc	A-A3M2D07	A-A3F2M11
gnd	gnd	A-A3M2D08	A-A3F2D08

Do all the voltages on the A-A3 board measure more than the minimum as shown in chart A3?

Y N

**059**

Go To Map 0599, Entry Point C.

**060**

Go to Page 2, Step 009, Entry Point C.

**061**

- Measure the voltages on the A-A2 board as shown in chart A2.

Chart A2

Nominal DC Voltage	Minimum DC Voltage	Probe Point
+1.7Vdc	+1.67Vdc	A-A2J2B05*
+5.0Vdc	+4.55Vdc	A-A2J2D03
-5.0Vdc	-4.55Vdc	A-A2J2S06
+8.5Vdc	+7.68Vdc	A-A2J2M11
gnd	gnd	A-A2J2D08

\*Only present when A2 supply is installed.

(Step 061 continues)

(Step 061 continues)

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MAP 0121-12

**CSIPL Start CSP/Channel**

MAP 0121-13

**5360 Systems Unit**

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(Step 061 continued)

(Step 061 continued)

Note: If there are 14 voltage connectors installed on the pin side of the A2 board, the A2 supply is installed. If there are only 4 connectors, the A2 supply is not installed.

**Do all the voltages on the A-A2 board measure more than the minimum as shown in chart A2?**

**Y N**

**062**

**Go To Map 0599, Entry Point B.**

**063**

**Go to Page 2, Step 008, Entry Point B.**

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MAP 0121-13

**ENTRY POINTS**

FROM	ENTER THIS MAP		
MAP NUMBER	ENTRY POINT	PAGE NUMBER	STEP NUMBER
0105	A	1	001
0115	C	2	012
0116	A	1	001

**EXIT POINTS**

EXIT THIS MAP		TO	
PAGE NUMBER	STEP NUMBER	MAP NUMBER	ENTRY POINT
3	013	0105	A

**001**

**(Entry Point A)**

The following is a list of obvious problems that cause the diskette to fail intermittently:

- Foreign material in diskette or diskette drive.
- The Cover is not closed.
- The diskette is not inserted correctly.
- The belt is off of the pulley or damaged.
- AC motor capacitor housing has a crack or is distorted.
- The pulley is not turning or is slipping.
- The AC motor is not turning.
- The cables for attachment or power are not seated.
- Drive band is broken or damaged.

**MAP DESCRIPTION:**

This MAP instructs the CE/CSR to run the drive test diskette and MDI tests for the diskette.

**START CONDITIONS:**

The diskette attachment has been determined to be the failing device. You can IPL from the disk.

**FRUs PARTIALLY TESTED:**

No FRUs

Radio Frequency Interference (RFI) can cause the diskette units to malfunction when operated outside the system box. Should RFI be suspected, the diskette unit should be placed inside the system for operational checkout. All covers must be in place and closed.

**Did you find the problem in the list?**

Y N

|

**002**

Go to Page 2, Step 004, Entry Point B.

**003**

- Fix the obvious problem.

**Was this the only diskette problem?**

Y N

|

**004****(Entry Point B)****Did you get a system reference code of 1d0F or 1d0A?****Y N****005****Go to Step 012, Entry Point C.****006****We will first test the drive with the drive test diskette as follows:**

- If you have already tested with drive test diskette or if you are sure that failure is hardware related, you may skip to step 012, Entry Point C.

- Select mode 1.
- Press the System Reset key.
- Select mode 0.
- Enter FF00.
- Press the Load key.

**Does SSP sign on screen appear?****Y N****007****Go to Step 012, Entry Point C.****008**

- Sign on the system.

**When the option menu appears on the console:**

- Enter the command 'I1DIAG DRIVE' from the system console.
- Follow instructions as they are displayed on the console.

**When the diskette drive test completes, one of the following messages and/or SRCs will appear on the console display:**

- 1.The diskette drive is functioning within acceptable limits.
- 2.The diskette drive is functioning within acceptable limits after cleaning.
- 3.The diskette drive is not functioning within acceptable limits.

**(Step 008 continues)****(Step 008 continued)****Item 3 will list one of the SRCs: (reference MAP 0115)****1DA1 - cannot read cylinder 0 head 0****1DA2 - worn-head test fails on head 0, head 1 is good****1DA3 - worn-head test fails on head 1, head 0 is good****1DA4 - worn-head test fails on both head 0 and 1****Is the diskette drive functioning within acceptable limits?****Y N****009****Suspect hardware problem or dirty head.****Go to Step 012, Entry Point C.****010****The diskette drive operates within acceptable limits.****Suspect media problem.****Do you want to run the MDIs?****Y N****011**

- Verify the system is fixed and return it to the operator.
- Refer the operator to the problem determination guide, diskette section.

**012****(Entry Point C)**

- Run diskette MDIs.
- To cause a CSIPL from the disk and load the diagnostic control program (DCP), perform the following:

- Select mode 1.
- Press the System Reset key.
- Select mode F.
- Enter F800.
- Press the Load key.

**Note: It may take about 1 to 3 minutes for the CSIPL sequence to complete, depending on the system configuration.****When the CSIPL sequence completes, the System Available light should be on and the console displays (Step 012 continues)**

A  
1

## Diskette Problems

MAP 0179-3

### 5360 Systems Unit

PAGE 3 OF 3

(Step 012 continued)  
the DCP main menu.

**Is the Main Menu displayed on the console?**

Y N

#### 013

The CS IPL completed correctly from the disk before this attempt. MAP 0105, A reviews the indicators.

**Go To Map 0105, Entry Point A.**

#### 014

- Select MDI MAPs and press Enter.
- Select diskette and press Enter.
- Follow instructions of diskette MDIs.

- Wait for the MDI MAPs to either find the failing FRU, instruct you to follow the MDI MAPs, or complete.

**Did the diskette MDI tests find the problem?**

Y N

#### 015

- CS IPL completed correctly from disk.
- Replace the FRU(s) in the order recommended by the system reference code.
- Verify that the system is repaired and return it to the system operator.

#### 016

- Verify that the system is repaired and return it to the system operator.

#### 017

- Return the system to the operator.

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MAP 0179-3

5360 Systems Unit

PAGE 1 OF 10

ENTRY POINTS

FROM	ENTER THIS MAP		
MAP NUMBER	ENTRY POINT	PAGE NUMBER	STEP NUMBER
0121	A	1	001

001

(Entry Point A)

- Select mode 6.
- Press the Power key (power off).
- Remove and mark the location on each item in the following list:

- A-A1C2 disk adapter card
- A-A1D2 disk adapter card or  
6157 tape adapter card  
(See Note in other column)
- A-A2C2 disk adapter card
- A-A2D2 disk adapter card
- A-A2C4 disk adapter card
- A-A2D4 disk adapter card
- A-A2T2 printer adapter
- A-A2S2 printer state
- A-A2K2 tape DSA  
(card chart continues on  
next page)
- A-A2N2 MCR adapter
- A-A1K2 SLCA
- A-A1L2 LAN adapter card for  
STAGE 2 or 3 SYSTEM
- A-A2Z4 crossover cable
- A-A2Z5 crossover cable
- A-A2Z6 crossover cable

If there is an A3 board and  
no A2 board - Remove:

- A-A1Z1 crossover cable
- A-A1Z2 crossover cable
- A-A1Z3 crossover cable

(Step 001 continues)

EXIT POINTS

EXIT THIS MAP		TO	
PAGE NUMBER	STEP NUMBER	MAP NUMBER	ENTRY POINT
10	061	0199	A

MAP DESCRIPTION:

This MAP will remove all I/O adapters that interface to the channel bus that are not required for IPL.

START CONDITIONS:

The system will not IPL from disk or diskette.

FRUs PARTIALLY TESTED:

- A-A1C2, A-A2C2, A-A3S2
- A-A1D2, A-A2D2, A-A3P2
- A-A1E2, A-A2C4
- A-A1F2, A-A2D4
- A-A1H2, A-A2J2
- A-A1K2, A-A2K2
- A-A1L2, A-A2N2
- A-A2S2
- A-A2T2

top card connectors  
channel crossover cables

Note: A-A1D2/A-A1E2 slots contain:

Disk adapter card and disk/diskette DSA if A-A1F2 and A-A1C2 cards are present.  
6157 tape adapter and 6157 tape DSA (if installed) if A-A1F2 and A-A1C2 cards are not present. (Disk adapter card and disk/diskette DSA are located in A-A2D2 and A-A2E2 slots).



## Channel Error Isolation

MAP 0190-2

### 5360 Systems Unit

PAGE 2 OF 10

(Step 001 continued)

After the cards are removed as indicated in the card chart, the only cards remaining on the system channel bus are: the channel card at A-A1L2 or A-A1N2 (CHANNEL CARD in A-A1N2 indicates a STAGE 2 or 3 SYSTEM) controller card at A-A1H2 and the disk/diskette DSA card at A-A1E2 or A-A2E2 and a passthrough card or controller card at A-A2J2.

#### CAUTION

To prevent damage to the 21ED disk drives, if installed, disconnect cables from J25 and J26 (05-240) before removing A-A1C2 and A-A1D2 (if present) or A-A2C2 and A-A2D2 (if present).

Note: Some locations will not have cards/cables in them.

After the cards/cables are removed and marked, then:

Note: The Channel Terminator card can be in one of five locations. Mark the location and make sure it gets returned to that location before leaving this MAP.

A-A1B3 - Pre-Stage 2  
A-A1B5 - Stage 2  
A-A2U3  
A-A3U3 - MLCA feature  
A-A3U4 - ELCA feature

- If the channel terminator card is on the A3 board - A-A3U3 or A-A3U4 - remove it and move it to the A-A2U3 position. If there is no A2 board leave it out. If it is on the A1 board (A1B3 or A1B5), remove it.
- If there is a wire connecting A-A1E2J13 to ground, remove A-A1E2 and mark the location on the card.
- Replace top card connector (TCC) on A1E2 and A1F2 in the 'X' position (or A2E2 and A2F2).
- Press the Power key (power on).
- Select mode E.
- Enter FFF0.

(Step 001 continues)

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MAP 0190-2

**Channel Error Isolation**

MAP 0190-3

**5360 Systems Unit**

PAGE 3 OF 10

(Step 001 continued)

- Insert DIAG21/41 magazine M1.
- Press the Load key.

**Did the DCP screen appear?**

Y N

**002**

- Select mode 6.
  - Press the Power key (power off).
  - Reinstall the card removed from A-A1C2 (and A-A1D2 if present) or A2C2 (and A-A2D2, A-A2C4, A-A2D4 if present) (disk adapter card) and remove the card at A-A1F2 or A-A2F2 (diskette adapter card).
  - Reinstall the top card connector(s). (See FLD AB100 and AB200 for proper positions.
- If 21ED, reconnect cables at J25 and J26 (05-240).
- Press the Power key (power on).
  - Select mode F.
  - Enter F8F0.
  - Press the Load key.
  - Wait up to 15 minutes (depending on main storage size) for Load to complete.

The disk adapter card and diskette adapter do not interface directly to the system channel bus but either one being bad can prevent a successful CS IPL from either disk or diskette.

**Did the DCP screen appear on the system console?**

Y N

**003**

- Select mode 6.
- Press the Power key (power off).
- Reinstall diskette adapter card at A-A1F2 or A-A2F2.
- Reinstall TCC.
- Remove card at A-A1H2.
- Press the Power key (power on).
- Select mode E.
- Enter FFF0.
- Insert DIAG21/41 or magazine M1.
- Press the Load key.
- Wait up to 15 minutes (depending on main storage size) for Load to complete.

A-A1H2 card is the work station controller. With this card out of the system, A000 should be displayed in the control panel display if CS IPL runs correctly.

**Is A000 displayed on control panel display?**

Y N

8 8 8 4  
A B C D

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MAP 0190-3

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**Channel Error Isolation**  
**5360 Systems Unit**

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**004**

**(Entry Point C)**

- Select mode 6.
- Press the Power key (power off).
- Reinstall A-A1H2 card.

**Does this system have the disk and diskette cards (A-A2C2, A-A2D2, A-A2E2, A-A2G4) on the A2 board?**

**Y N**

**005**

- Remove A1Z1, A1Z2, A1Z3 (if present).
- Press the Power key (power on).
- Select mode E.
- Enter FFF0.
- Press the Load key.

**Did the DCP screen appear?**

**Y N**

**006**

**Are there four (4) Top Card Connectors used on the A-A1M2 card?**

**Y N**

**007**

Bad card:

A-A1E2

---or---

A-A1N2.

- Select mode 6.
- Press the Power key (power off).
- Reinstall cards/cables and TCCs removed in step 001.
- Return terminator card to its original position. See step 001.

F G

MAP 0190-4

**008**

Bad card:

A-A1E2

---or---

A-A1L2

---or---

A-A1M2.

- Select mode 6.
- Press the Power key (power off).
- Reinstall cards/cables and TCCs removed in step 001.
- Return terminator card to its original position. See step 001.

**009**

- Select mode 6.
- Press the Power key (power off).
- Move card from A2U3 to A1B5 (or A1B3 on a pre-STAGE 2 system).
- Press the Power key (power on).
- Select mode E.
- Enter FFF0.
- Press the Load key.

**Did DCP screen appear?**

**Y N**

**010**

Bad terminator card (now in location A1B5 or A1B3).

- Select mode 6.
- Press the Power key (power off).
- Install good terminator card in the original position.
- Reinstall cards/cables and TCCs removed in step 001.

**011**

Bad A1 crossover cables.

- Select mode 6.
- Press the Power key (power off).
- Reinstall cards/cables and TCCs removed in step 001.
- Return terminator card to its original position. See step 001.

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E F G

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MAP 0190-4

**Channel Error Isolation**  
**5360 Systems Unit**

012

Is there a card in A-A2L2 (8809 Tape installed)?

Y N

013

At this point the following FRUs are suspect; A1L2, A1M2, A2E2, A2J2, A1-A2 crossover cables. The following procedure will isolate the failing FRU:

- Select mode 6.
- Press the Power key (power off).
- Remove A2J2 card.
- Remove A1H2 card and install it in the A2J2 position.
- Press the Power key (power on).
- Select mode E.
- Enter FFF0.
- Insert Diag 21/41 or M1.
- Press the Load key.
- Wait up to 15 minutes (depending on main storage size) for Load to complete.

Is A000 displayed on the control panel?

Y N

014

(Entry Point J)

- Select mode 6.
- Press the Power key (power off).
- Remove the card in A2J2 and reinstall this card in the A1H2 position.
- Install original card in the A2J2 position.
- Remove the channel crossover cable A1Z1, A1Z2 and A1Z3.
- Remove TCCs from A2E2 card.
- Remove A2G4 and install it in the A1G4 position.
- Remove A2F2 and install it in the A1F2 position.

Is 6157 tape installed on this system?  
(Jumper installed)

Y N

015

- Remove A2E2 and install it in the A1E2 position.
- Install TCC in the X position on the A1E2 & A1F2 cards.
- Remove the cable from the A2V5 position and install it in the A1V5 position.
- Press the Power key (power on).
- Select mode E.
- Enter FFF0.
- Press the Load key.

Did the DCP screen appear on the system console?

Y N

016

(Entry Point M)

Are there four (4) Top Card Connectors used on the A-A1M2 card?

Y N

017

Bad card:

A1N2

A1M2

---or---

A2E2.

- Select mode 6.
- Press the Power key (power off).
- Reinstall the A1E2, A1F2, A1G4 cards in the A2E2, A2F2, A2G4 positions respectively.
- Reinstall the A1V5 cable in the A2V5 position.
- Reinstall A1Z1, A1Z2, A1Z3 crossover cables.
- Reinstall cards/cables and TCCs removed in step 001.
- Return terminator card to its original position. See step 001.

M N  
5 5

**Channel Error Isolation**  
**5360 Systems Unit**

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**018**

Bad card:

A1L2

A1M2

---or---

A2E2.

- Select mode 6.
- Press the Power key (power off).
- Reinstall the A1E2, A1F2, A1G4 cards in the A2E2, A2F2, A2G4 positions respectively.
- Reinstall the A1V5 cable in the A2V5 position.
- Reinstall A1Z1, A1Z2, A1Z3 crossover cables.
- Reinstall cards/cables and TCCs removed in step 001.
- Return terminator card to its original position. See step 001.

**019**

(Entry Point K)

- Select mode 6.
- Press the Power key (power off).
- Move chan terminator card from A2U3 to A1B5 (or A1B3 on a pre-STAGE 2 system).
- Press the Power key (power on).
- Select mode E.
- Enter FFF0.
- Press the Load key.

**Did DCP screen appear?**

Y N

**020**

Bad chan terminator card (A1B5 or A1B3). Install good card in original terminator card position. See step 001.

- Select mode 6.
- Press the Power key (power off).
- Reinstall the A1E2, A1F2, A1G4 cards in the A2E2, A2F2, A2G4 positions respectively.
- Reinstall the TCC.
- Reinstall the A1V5 cable in the A2V5 position.
- Reinstall cards/cables removed in step 001.

P

K P  
5 5

MAP 0190-6

**021**

Bad A1 crossover cables.

- Select mode 6.
- Press the Power key (power off).
- Reinstall the A1E2, A1F2, A1G4 cards in the A2E2, A2F2, A2G4 positions respectively.
- Reinstall the A1V5 cable in the A2V5 position.
- Reinstall cards/cables and TCC(s) removed in step 001.
- Return terminator card to its original position. See step 001.

**022**

- Remove jumper from A-A1E2J13 D08.
- Reinstall the A1E2 card.
- Install TCC in the X position on the A1E2 & A1F2 cards.
- Remove the cable from the A2V5 position and install it in the A1V5 position.
- Press the Power key (power on).
- Select mode E.
- Enter FFF0.
- Press the Load key.

**Did the DCP screen appear on the system console?**

Y N

**023**

- Select mode 6.
- Press the Power key (power off).
- Remove the A1E2 card.
- Remove the A2E2 card and install this card in the A1E2 position.
- Press the Power key (power on).
- Select mode E.
- Enter FFF0.
- Press the Load key.

**Did the DCP screen appear on the system console?**

Y N

**024**

**Go to Page 5, Step 016, Entry Point M.**

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MAP 0190-6

5  
6  
6

**Channel Error Isolation**  
**5360 Systems Unit**

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**025**

Bad card:  
A1E2

**026**

- Select mode 6.
- Press the Power key (power off).
- Remove the A1E2 card.
- Remove the A2E2 and install it in the A1E2 position.
- Install TCC in the X position on the A1E2 & A1F2 cards.
- Press the Power key (power on).
- Select mode E.
- Enter FFF0.
- Press the Load key.

**Did the DCP screen appear on the system console?**

Y N

**027**

Go to Page 5, Step 016, Entry Point M.

**028**

Go to Page 6, Step 019, Entry Point K.

**029**

The original A2J2 card is bad.

- Select mode 6.
- Press the Power key (power off).
- Remove the card in A2J2 and reinstall it in the A1H2 position.
- Reinstall cards/cables and TCC(s) removed in step 001.
- Return terminator card to its original position. See step 001.

5  
6  
6

MAP 0190-7

**030**

Tape is installed.

- Remove card at A-A2E2.
- Install the card removed from A-A2K2 (in step 001) into the A-A2E2 position.
- Reinstall TCC(a).
- Press the Power key (power on).
- Select mode E.
- Enter FFF0.
- Press the Load key.

**Did the DCP menu appear?**

Y N

**031**

- Select mode 6.
- Press the Power key (power off).
- Reinstall the A-A2E2 and A-A2K2 into their original positions along with their TCC.
- Remove card at A-A1H2 and A-A2J2.
- Install the card just removed from A-A1H2 into the A-A2J2 position (leave A-A1H2 slot empty).
- Press the Power key (power on).
- Select mode F.
- Enter F8F0.
- Press the Load key.
- Wait up to 15 minutes (depending on main storage size) for Load to complete.

**Is A000 displayed in control panel display?**

Y N

**032**

Go to Page 5, Step 014, Entry Point J.

**033**

The original card removed from A-A2J2 is bad.

- Select mode 6.
- Press the Power key (power off).
- Remove the card in A2J2 and reinstall it in the A1H2 position.
- Reinstall cards/cables removed in step 001 and return the channel terminator card to its original position. See step 001.

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MAP 0190-7

A B C S  
3 3 3 7

**Channel Error Isolation**  
**5360 Systems Unit**

MAP 0190-8

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**034**

The card removed from A-A2E2 is bad.  
- Select mode 6.  
- Press the Power key (power off).  
- Reinstall the remaining cards/cables removed in step 001. Return terminator card to its original location. See step 001.

**035**

**Have you previously replaced the A-A1H2 card?**

Y N

**036**

The card removed from A-A1H2 is bad.  
- Select mode 6.  
- Press the Power key (power off).  
- Reinstall the remaining cards/cables removed in step 001. Return terminator card to its original location. See step 001.

**037**

**Go to Page 4, Step 004, Entry Point C.**

**038**

The card removed from A-A1F2 or A-A2F2 is bad.  
- Select mode 6.  
- Press the Power key (power off).  
- Reinstall the remaining cards/cables removed in step 001. Return terminator card to its original location. See step 001.

**039**

- Select mode 6.
- Press the Power key (power off).
- Reinstall the card removed from A-A1C2 (and A-A1D2 if present) or A-A2C2 (and A-A2D2, A-A2C4, A-A2D4 present (disk adapter card).
- If 21ED, reconnect cables at J25 and J26 (05-240).
- Reinstall the top card connector.
- Press the Power key (power on).
- Select mode F.
- Enter F8F0.
- Press the Load key.

(Step 039 continues)

(Step 039 continued)

**Did the DCP screen appear on the system console?**

Y N

**040**

**Is there a card in A-A1C2?**

Y N

**041**

**Is there a card in A-A2D2?**

Y N

**042**

Bad card:  
A-A2C2.  
- Select mode 6.  
- Press the Power key (power off).  
- Reinstall the remaining cards/cables removed in step 001. Reinstall A-A1F2 or A2F2. Return terminator card to its original location. See step 001.

**043**

**Is there a card in A-A2C4?**

Y N

**044**

Bad card:  
A-A2C2  
---or---  
A-A2D2.  
- Select mode 6.  
- Press the Power key (power off).  
- Reinstall the remaining cards/cables removed in step 001. Reinstall A-A1F2 or A2F2. Return terminator card to its original location. See step 001.

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MAP 0190-8

**045**

- Select mode 6.
- Press the Power key (power off).
- Remove cards from A-A2D2, A-A2C4, and A-A2D4 if present.
- Press the Power key (power on).
- Select mode F.
- Enter F8F0.
- Press the Load key.

**Did the DCP screen appear on the system console?**

**Y N**

**046**

Bad card:  
A-A2C2.

- Select mode 6.
- Press the Power key (power off).
- Reinstall the remaining cards/cables removed in step 001. Reinstall A-A1F2 or A2F2. Return terminator card to its original location. See step 001.

**047**

- One or more of the cards just removed is bad.
- Select mode 6.
- Press the Power key (power off).
- Reinstall one of the cards (A-A2D2, A-A2C4, or A-A2D4).
- Press the Power key (power on).
- Select mode F.
- Enter F8F0.
- Press the Load key.

If the DCP screen fails to come up, the last card reinstalled is bad.

If the DCP screen comes up, repeat this step until all the cards (A-A2D2, A-A2C4, A-A2D4) have been reinstalled.

When the bad card is found, then:

- Select mode 6.
- Press the Power key (power off).
- Reinstall the remaining cards/cables removed in step 001. Reinstall A-A1F2 or A2F2. Return terminator (Step 047 continues)

(Step 047 continued)  
card to its original location. See step 001.

**048**

**Is there a card in A-A1D2?**

**Y N**

**049**

Bad card:  
A-A1C2.

- Select mode 6.
- Press the Power key (power off).
- Reinstall the remaining cards/cables removed in step 001. Reinstall A-A1F2 or A2F2. Return terminator card to its original location. See step 001.

**050**

Bad card:  
A-A1C2

---or---

A-A1D2.

- Select mode 6.
- Press the Power key (power off).
- Reinstall the remaining cards/cables removed in step 001. Reinstall A-A1F2 or A2F2. Return terminator card to its original location. See step 001.

**051**

**(Entry Point B)**

- Select mode 6.
- Press the Power key (power off).
- Reinstall one of the cards removed in step 001.

Note: Install the cards/cables in the following sequence and reinstall TCCs as you replace cards that use them:

1. A1 cards.
2. A2 cards.
3. A2 to A3 crossover cables or A1 to A3 crossover cables and move channel terminator card to A-A3U4 or A-A3U3.
4. A3 cards.

- Press the Power key (power on).
- (Step 051 continues)



**Channel Error Isolation**

**5360 Systems Unit**

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(Step 051 continued)

- Select mode F.
- Enter F8F0.
- Press the Load key.

**Did the DCP screen appear?**

Y N

**052**

**Are the A3 board crossover cables installed?**

Y N

**053**

The last card you installed is bad.

- Select mode 6.
- Press the Power key (power off).
- Reinstall the remaining cards/cables removed in step 001. Reinstall A-A1F2 or A2F2. Return terminator card to its original location. See step 001.

**054**

**Is this the first time through after connecting the A3 crossover cables?**

Y N

**055**

**Are there any cards, other than the channel terminator card, installed on board A3?**

Y N

**056**

Board A3 or crossover cables are bad.

- Select mode 6.
- Press the Power key (power off).
- Reinstall the remaining cards/cables removed in step 001. Return terminator card to its original location. See step 001.

**057**

The last card installed is bad.

- Select mode 6.
- Press the Power key (power off).
- Reinstall the remaining cards/cables removed in step 001. Return terminator card to its original location. See step 001.

W X

MAP 0190-10

**058**

The CHANNEL crossover cables or a card in the A3 board is bad

Remove all the cards from board A3 and mark their location. Leave the terminator card in A-A3U4.

**Go to Page 9, Step 051, Entry Point B.**

**059**

- Repeat this sequence until all cards/cables and TCCs have been reinstalled or bad card/cable is found.

**Have you reinstalled all the cards/cables removed in step 001?**

Y N

**060**

**Go to Page 9, Step 051, Entry Point B.**

**061**

A suspected bad card is now the work station controller card in the A-A3S2 position ( a bad card in this position will allow the DCP menu to appear). To check this card, swap it with the card in the A-A1H2 position. If you cannot bring up the DCP menu, the card now in the A-A1H2 position is bad.

Indications are that one of the cards was not seated properly.

- If you have not already done so, power down the system and reinstall the A1F2 or A2F2 card. Return the channel terminator card to its original location. See step 001.
- Press the Power key (power on).
- Run SYSTEST to verify that the system is functioning correctly.

**Go To Map 0199, Entry Point A.**

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EC 842375 PEC 842350

MAP 0190-10

W X

**System Entry - MDIs**

MAP 0199-1

**5360 Systems Unit**

PAGE 1 OF 4

**ENTRY POINTS**

FROM	ENTER THIS MAP		
MAP NUMBER	ENTRY POINT	PAGE NUMBER	STEP NUMBER
0105	A	2	001
0159	A	2	001
0190	A	2	001
0900	A	2	001
1000	A	2	001
1292	A	2	001
9500	A	2	001
9700	A	2	001

**EXIT POINTS**

EXIT THIS MAP		TO	
PAGE NUMBER	STEP NUMBER	MAP NUMBER	ENTRY POINT
3	003	0105	A
4	014	0113	A
4	011	0300	A
3	006	9500	A
3	005	9700	A

**System Entry - MDIs**

MAP 0199-2

**5360 Systems Unit**

PAGE 2 OF 4

**001**

**(Entry Point A)**

This MAP has a table which references MAPs that supply instructions to run the MDI MAPs for each unit.

- If it is not obvious which MDI MAPs should be used, run all the MDI MAPs.

To cause a CSIPL from the disk and load the SSP, perform the following:

- Select mode 1.
- Press the System Reset key.
- Select mode 0.
- Enter 0000.
- Press the Load key.
- Wait about 4 minutes for the CSIPL sequence to complete.

**MAP DESCRIPTION:**

This MAP supplies a MAP index to run all the MDI MAPs in the system. It also has a list of other diagnostic tests that can be run to aid in isolating system problems.

**START CONDITIONS:**

To get to this MAP, CSIPL has worked from the diskette and has been run to determine which unit might have failed and which MDI MAPs should be run.

- If it is not obvious which MDI MAPs should be used, run all the MDI MAPs.

**FRUs PARTIALLY TESTED:**

No FRUs

Note 1: When the CSIPL completes, the system available light would be on and the console displays the SSP sign on screen.

Table A - MDI MAP reference

Unit	MAP number
21ED	19500,A
10SR	19700,A
Diskette (51TD)	10179,A
Diskette (72MD)	10179,A
3262 printer	15001,A
Work stations	17002,AA
Data communications	13003,A
Tape drive	19900,A
1255 MCR	1255
	MIM

(Step 001 continues)

(Step 001 continues)

04Dec84 PN 4177273

EC 839954 PEC 826487

MAP 0199-2

**System Entry - MDIs**

MAP 0199-3

**5360 Systems Unit**

PAGE 3 OF 4

(Step 001 continued)

(Step 001 continued)

Did the CSIPL complete (see Note 1 on previous page)?

Y N

**002**

CSIPL completed from diskette before this attempt, so we will try it again.

- Select mode 1.
- Press the System Reset key.
- Select mode E.
- Enter 0000.
- Press the Load key.

Did the DCP menu appear?

Y N

**003**

CSIPL fails from disk and diskette. MAP 0105 will try to sort out the cause.

Go To Map 0105, Entry Point A.

**004**

CSIPL fails from disk and works correctly from diskette. The disk MAPs will determine the cause.

Does the system have 21ED disk drive(s)?

Y N

**005**

Go To Map 9700, Entry Point A.

**006**

Go To Map 9500, Entry Point A.

A  
3

**System Entry - MDIs**

**5360 Systems Unit**

PAGE 4 OF 4

007

- Sign on the system.
  - Enter ERAP (system console).
  - Follow prompts as they appear on the screen.
- General MIM section 01-360 provides procedures for ERAP and how to interpret the results.
- Review all device logs for high retry counts and frequent errors.
  - Check time and date of entries against time and date of customer failures or problems.
  - Record the reference codes that are logged for the entries that have high retry counts or frequent occurrences or match time and date of customer problem.

**Did the error logs supply enough information to indicate the failing device?**

Y N

008

- Return to the SSP main menu and enter SYSTEST (system console).
- General MIM section 01-720 provides procedures for running SYSTEST.
- Select all devices to be exercised.
  - Permit SYSTEST to run until the failing device is indicated or for a minimum of 15 minutes.

**Did any device fail?**

Y N

009

This is the good machine path exit.

The intermittent MAPs supply some suggestions for other tests and procedures for those type problems that may not be quickly isolated.

**Do you want to go to the intermittent MAPs?**

Y N

010

- Return the system to the operator.

011

**Go To Map 0300, Entry Point A.**

B C

MAP 0199-4

012

**Did the failing device present a reference code?**

Y N

013

- Refer to table A. Go to the MAP indicated for the failing device to run MDIs.

014

- Refer to the reference code list.

**Go To Map 0113, Entry Point A.**

015

- Use the reference code(s) recorded for the failing device.
  - Refer to the reference code list to determine FRU to be replaced or MAP entry.
- Go to reference code MAPs 0113, 0114, 0115 and 0116.

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EC 839954 PEC 826487

MAP 0199-4

B C