



S230-9002-1

**IBM System/36**  
**5362 System Unit**  
**System Reference Codes (SRC)**



**IBM** System/36

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System Reference Codes (SRC)**

Order Number  
S230-9002-1

## **Second Edition (March 1985)**

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# 5362 System Reference Code (SRC)

- The SRCs are in sequence on the microfiche cards. Use the table below to determine the approximate location of your SRC on the microfiche cards.

System Reference Code Table

SRC	Device	Card	Row	Frame
0000	Program	1	A	3
0100	Work station	1	A	16
0b00	MSP	1	B	18
1600	CSP	1	C	14
1800	Communications	1	D	9
1900	21ED disk	2	A	7
1C00	Work station	2	B	12
1d00	Diskette	2	B	14
7100	Work station	2	D	3
9900	Power	2	D	15
E000	Panel	3	B	15

# A1

# How to Use the System Reference Code (SRC)

- The customer is directed by the problem determination (PD) procedures to gather information, record, and report the 4-character SRC when placing a call for service.
- Use the SRC to determine:
  - Failing feature or device.
  - Probable failing FRUs with % of probability.
  - FRU part numbers.
  - Need for programming support.
  - References to the maintenance package.
- This information will allow the CE/CSR to determine what service action is required and what FRUs should be taken on the service call.
- Start at Frame A1 and follow the instructions as they are presented to find the SRC.
- If no SRC is reported, the CE/CSR should contact the customer and determine if information is available to create an SRC.

**A2**

<b>SRC</b>	<b>FRU</b>	<b>%</b>	<b>P/N</b>	<b>FRU DESCRIPTION</b>	<b>SERVICE COMMENTS</b>
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 address 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 communication line data.
0009	Program				With program check on--- Address translation error relocating MS module.
0010	Program				With program check on--- Disk IOB parameters not valid.

<b>SRC</b>	<b>FRU</b>	<b>%</b>	<b>P/N</b>	<b>FRU DESCRIPTION</b>	<b>SERVICE COMMENTS</b>
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 operation 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--- Nonprivileged program issued timer load request

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SRC	FRU	%	P/N	FRU DESCRIPTION	SERVICE COMMENTS
0024	Program				With program check on--- Type specified with timer request not valid.
0025	Program				With program check on--- Nonprivileged pgm issued multiple-wait 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 parameter 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 program.
0033	Program				With program check on--- Disk error--unrecoverable disk operation.
0034	Program				With program check on--- Disk error--unrecoverable hardware error.

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SRC	FRU	%	P/N	FRU DESCRIPTION	SERVICE COMMENTS
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.
0040	Hardwar - Program				Data set ready line inactive. --- or --- With program check on--- Go to a relocatable CS module that is not loaded
0041	Hardwar - Program				Idle detected. --- or --- With program check on--- System is in a wait or infinite loop.
0042	Hardwar				Receive clock failed.
0043	Hardwar				Data set ready line active (switched only).
0044	Hardwar - Program				30 second time out (switched only). --- or --- With program check on--- Program is larger than main storage user area.

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SRC	FRU	%	P/N	FRU DESCRIPTION	SERVICE COMMENTS
0045	Hardwar - Program				Data set will not activate (X.25 only). --- or --- With program check on--- Task already in abnormal termination.
0046	Hardwar - Program				Frame reject received (X.25 only). --- or --- With program check on--- Error ACE is the dump ACE
0047	Hardwar - Program				DM / Disc received (X.25 only). --- or --- 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	Hardwar - Program				Clear to send error. --- or --- With program check on--- Disk error--loading control storage module.
0051	Hardwar				Transmit clock failed.
0052	Hardwar - Program				Transmit hardware error. --- or --- With program check on--- Assign SVC or free SVC parameters not valid.

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<b>SRC</b>	<b>FRU</b>	<b>%</b>	<b>P/N</b>	<b>FRU DESCRIPTION</b>	<b>SERVICE COMMENTS</b>
0053	Hardwar - 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 MSIPL.

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<b>SRC</b>	<b>FRU</b>	<b>%</b>	<b>P/N</b>	<b>FRU DESCRIPTION</b>	<b>SERVICE COMMENTS</b>
<b>006b</b>	<b>WSC</b>				Appears in ERAP table for remote work station controller. ----- Counts the detected failures of the XLCA communications card.
<b>006C</b>	<b>WSC</b>				Appears in ERAP table for remote work station controller. ----- Counts the number of times the T1 counter expires.
<b>006d</b>	<b>WSC</b>				Appears in ERAP table for remote work station controller. ----- PDU retransmission (X.25 with ELLC).
<b>006E</b>	<b>WSC</b>				Appears in ERAP table for remote work station controller. ----- Counts the number of information frames transmitted.
<b>006F</b>	<b>WSC</b>				Appears in ERAP table for remote work station controller. ----- Counts the number of valid information frames received.

<b>SRC</b>	<b>FRU</b>	<b>%</b>	<b>P/N</b>	<b>FRU DESCRIPTION</b>	<b>SERVICE COMMENTS</b>
0070	Hardwar - 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.
0072	Hardwar - Program				Remote cluster feature overrun.  --- or --- With program check on-- Read DSC storage IOB parameter not valid.
0073	Hardwar				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 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.

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<b>SRC</b>	<b>FRU</b>	<b>%</b>	<b>P/N</b>	<b>FRU DESCRIPTION</b>	<b>SERVICE COMMENTS</b>
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.
0086	Program				With program check on-- Post of communication ERB is 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 boundary.
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-- Branch taken by a control storage program is not valid.
0096	Program				With program check on-- Power off command not valid.

SRC	FRU	%	P/N	FRU DESCRIPTION	SERVICE COMMENTS
0097	Program				With program check on-- Task work area deallocate request not valid.
0098	WSC  Program				Not defined remote hardware error. --- or --- With program check on-- Insufficient task work area reserved.
0100	Base -- Display WS cbl A-A1Q2 Exp --- Display WS cbl A-A1P2 A-A1Q2	60 30 10  60 30 7 3	----- 2462208   ----- 2462208 2462210	Twinax/IBM cbl WS adapter card   Twinax/IBM cbl WS adapter card WS controller card	Base work station attachment. The work station display is not responding inside of 127 microseconds.  Work station expansion.
0101	Base -- A-A1Q2 WS cbl Display Exp --- A-A1P2 WS cbl Display Program	60 30 10  60 30 10	2462208 -----  2462208 -----	WS adapter card Twinax/IBM cbl  WS adapter card Twinax/IBM cbl	Base work station attachment. The twinax driver/receiver is failing. Work station expansion.  --- or --- With program check on-- Device unit block has a device ID that is not valid.
0102	Program				With program check on-- \$NUPD was called for a not supported function.

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SRC	FRU	%	P/N	FRU DESCRIPTION	SERVICE COMMENTS
0103	Base --	60			Base work station attachment. The work station attachment detected a parity error.  Work station expansion.
	Noise	30	-----	Twinax/IBM cbl	
	WS cbl	7			
	Display	3	2462208	WS adapter card	
	A-A1Q2				
	Exp ---				
	Noise	60			
	WS cbl	30	-----	Twinax/IBM cbl	
0104	Display	7			Base work station attachment. The twinax display detected a parity error.  Work station expansion.
	A-A1Q2	3	2462208	WS adapter card	
	Exp ---				
	Noise	60			
	WS cbl	30	-----	Twinax/IBM cbl	
	Display	7			
	A-A1P2	3	2462208	WS adapter card	
	0105	Hardwar			
Program					
0106	Base --	80	-----	Twinax/IBM cbl	Base work station attachment. The work station attachment detected a byte count error. Work station expansion.  --- or --- With program check on-- Task work area SVC cannot honor WSWA ge/put request.
	WS cbl	10			
	Display	10	2462208	WS adapter card	
	A-A1Q2				
	Exp ---				
	WS cbl	80	-----	Twinax/IBM cbl	
	Display	10			
	A-A1P2	10	2462208	WS adapter card	
Program					

SRC	FRU	%	P/N	FRU DESCRIPTION	SERVICE COMMENTS
0107	Hardwar  Program				Wrong work station responded. --- or --- With program check on-- Task work area deallocate request not valid.
0108	Base -- Display A-A1Q2 Exp --- Display A-A1P2 Program	95 5  95 5	2462208   2462208	WS adapter card   WS adapter card	Base work station attachment. The work station display reset at the wrong time. Work station expansion. --- or --- With program check on-- Task work area base ID does not exist.
0109	Base -- Noise Display A-A1Q2 WS cbl Exp --- Noise Display A-A1P2 WS cbl Program	40 30 20 10  40 30 20 10	2462208 -----  2462208 -----	WS adapter card Twinax/IBM cbl  WS adapter card Twinax/IBM cbl	Base work station attachment. The work station display failed to respond to a command.  Work station expansion.  --- or --- With program check on-- Task work area operation not valid.
0110	Program				With program check on-- WRK SVC parameter list is in error.

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SRC	FRU	%	P/N	FRU DESCRIPTION	SERVICE COMMENTS
0111	Base --				Base work station attachment. Scan code for work station display not valid.  Work station expansion.  --- or --- With program check on-- Active map count underflow
	Display	80			
	WS cbl	10	-----	Twinax/IBM cbl	
	A-A1Q2	5	2462208	WS adapter card	
	A-A1N2	5	2462206	MS card 128k	
			2462261	MS card 256k	
	Exp ---				
	Display	80			
WS cbl	10	-----	Twinax/IBM cbl		
A-A1P2	5	2462208	WS adapter card		
A-A1Q2	5	2462210	WS controller card		
Program					
0112	Program				With program check on-- CSP accessed a main storage address that is not valid.
0113	Program				With program check on-- I/O operation issued to active IOB.
0120	Base --				Base work station attachment. The command sent to the work station display was not a valid command.  Work station expansion.
	Noise	40			
	Display	25			
	A-A1Q2	20	2462208	WS adapter card	
	WS cbl	10	-----	Twinax/IBM cbl	
	A-A1N2	5	2462206	MS card 128k	
			2462261	MS card 256k	
	Exp ---				
Noise	40				
Display	25				
A-A1P2	20	2462208	WS adapter card		
WS cbl	10	-----	Twinax/IBM cbl		
A-A1Q2	5	2462210	WS controller card		

B1

SRC	FRU	%	P/N	FRU DESCRIPTION	SERVICE COMMENTS
0121	Base --				Base work station attachment. The address counter value sent to the work station display was too large.  Work station expansion.
	Noise	40			
	Display	25			
	A-A1Q2	20	2462208	WS adapter card	
	WS cbl	10	-----	Twinax/IBM cbl	
	A-A1N2	5	2462206	MS card 128k	
			2462261	MS card 256k	
	Exp ---				
	Noise	40			
	Display	25			
A-A1P2	20	2462208	WS adapter card		
WS cbl	10	-----	Twinax/IBM cbl		
A-A1Q2	5	2462210	WS controller card		
0122	Base --				Base work station ment. The amount of command bytes sent to the display was too large.  Work station expansion.
	A-A1Q2	35	2462208	WS adapter card	
	A-A1N2	35	2462206	MS card 128k	
			2462261	MS card 256k	
	Display	20			
	WS cbl	10	-----	Twinax/IBM cbl	
	Exp ---				
	A-A1P2	35	2462208	WS adapter card	
	A-A1Q2	35	2462210	WS controller card	
	Display	20			
WS cbl	10	-----	Twinax/IBM cbl		
0123	Base --				Base work station attachment. The address counter value sent to the work station display was not a valid value.  Work station expansion.
	Noise	40			
	Display	25			
	A-A1Q2	20	2462208	WS adapter card	
	WS cbl	10	-----	Twinax/IBM cbl	
	A-A1N2	5	2462206	MS card 128k	
			2462261	MS card 256k	
	Exp ---				
	Noise	40			
	Display	25			
A-A1P2	20	2462208	WS adapter card		
WS cbl	10	-----	Twinax/IBM cbl		
A-A1Q2	5	2462210	WS controller card		

B2

SRC	FRU	%	P/N	FRU DESCRIPTION	SERVICE COMMENTS
0124	Base --	40			Base work station attachment. The active command sent to the work station display was not valid.  Work station expansion.
	Noise	25			
	Display	20	2462208	WS adapter card	
	A-A1Q2	10	-----	Twinax/IBM cbl	
	WS cbl	5	2462206	MS card 128k	
	A-A1N2		2462261	MS card 256k	
	Exp ---				
	Noise	40			
	Display	25			
	A-A1P2	20	2462208	WS adapter card	
WS cbl	10	-----	Twinax/IBM cbl		
A-A1Q2	5	2462210	WS controller card		
0125	Base --	60			Base work station attachment. Work station error status was not valid.  Work station expansion.
	Display	20	-----	Twinax/IBM cbl	
	WS cbl	10	2462208	WS adapter card	
	A-A1Q2	10	2462206	MS card 128k	
	A-A1N2		2462261	MS card 256k	
	Exp ---				
	Display	60			
	WS cbl	20	-----	Twinax/IBM cbl	
	A-A1P2	10	2462208	WS adapter card	
	A-A1Q2	10	2462210	WS controller card	
0127	Base --	50			Base work station attachment. The address counter value sent to an IGC work station display in extended character mode was too large.  Work station expansion.
	Display	30	2462208	WS adapter card	
	A-A1Q2	10	-----	Twinax/IBM cbl	
	WS cbl	10	2462206	MS card 128k	
	A-A1N2		2462261	MS card 256k	
	Exp ---				
	Display	50			
	A-A1P2	30	2462208	WS adapter card	
	WS cbl	10	-----	Twinax/IBM cbl	
	A-A1Q2	10	2462210	WS controller card	

SRC	FRU	%	P/N	FRU DESCRIPTION	SERVICE COMMENTS
0149	A-A1Q2	40	2462208	WS adapter card	The work station attachment has reported an error, but the error status is not valid.
0181	Hardwar				Magnetic stripe reader error.
0182	Hardwar				Device type error.
0183	Hardwar				Wrong size display assemble.
0184	Hardwar				wrong keyboard ID.
0185	Hardwar				wrong keyboard specified.
0186	Base -- Display WS cbl A-A1Q2 A-A1N2  Exp --- Display WS cbl A-A1P2 A-A1Q2	75 15 5 5  75 15 5 5	 ----- 2462208 2462206 2462261  ----- 2462208 2462210	 Twinax/IBM cbl WS adapter card MS card 128k MS card 256k  Twinax/IBM cbl WS adapter card WS controller card	Base work station attachment. The work station display indicated a magnetic stripe reader operation occurred when no reader was installed. Work station expansion.
0189	Base -- Display WS cbl A-A1Q2 A-A1N2  Exp --- Display WS cbl A-A1P2 A-A1Q2	75 15 5 5  75 15 5 5	 ----- 2462208 2462206 2462261  ----- 2462208 2462210	 Twinax/IBM cbl WS adapter card MS card 128k MS card 256k  Twinax/IBM cbl WS adapter card WS controller card	Base work station attachment. The work station display indicated a magnetic stripe reader operation occurred even though no data had been sent. Work station expansion.

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SRC	FRU	%	P/N	FRU DESCRIPTION	SERVICE COMMENTS
0190	Display	99			The work station display has not changed the even/odd time out bit in 400 milliseconds. Indicated a work station display error.
0191	Display	99			The work station display cannot complete a command in 460 milliseconds. Indicates a work station display failure.
0200	Base -- Printer WS cbl A-A1Q2 Exp --- Printer WS cbl A-A1P2 A-A1Q2	60 30 10  60 30 7 3	----- 2462208   ----- 2462208 2462210	Twinax/IBM cbl WS adapter card   Twinax/IBM cbl WS adapter card WS controller card	Base work station attachment. The work printer is not responding inside of 127 microseconds. Work station expansion.
0201	Base -- A-A1Q2 WS cbl Printer Exp --- A-A1P2 WS cbl Printer Program	60 30 10  60 30 10	2462208 -----  2462208 -----	WS adapter card Twinax/IBM cbl  WS adapter card Twinax/IBM cbl	Base work station attachment. The twinax driver/receiver is failing. Work station expansion.  --- or --- With program check on-- Device unit block has a device ID which is not valid.
0202	Program				With program check on-- Disk error--loading file subsystem transient.

SRC	FRU	%	P/N	FRU DESCRIPTION	SERVICE COMMENTS
0203	Base --	60			Base work station attachment. The work station attachment detected a parity error.
	Noise	30	-----	Twinax/IBM cbl	
	WS cbl	7			Work station expansion.
	Printer	3	2462208	WS adapter card	
	A-A1Q2	60			
	Exp ---	30	-----	Twinax/IBM cbl	
	Noise	7			Work station expansion.
	WS cbl	3	2462208	WS adapter card	
Printer					
A-A1P2					
0204	Base --	60			Base work station attachment. The work station printer detected a parity error.
	Noise	30	-----	Twinax/IBM cbl	
	WS cbl	7			Work station expansion.
	Printer	3	2462208	WS adapter card	
	A-A1Q2	60			
	Exp ---	30	-----	Twinax/IBM cbl	
	Noise	7			Work station expansion.
	WS cbl	3	2462208	WS adapter card	
Printer					
A-A1P2					
0205	Hardwar				Work station not accessible. --- or ---
	Program				With program check on-- DSC register stack underflow / overflow.
0206	Base --	80	-----	Twinax/IBM cbl	Base work station attachment. The work station attachment detected a byte count error.
	WS cbl	10			
	Printer	10	2462208	WS adapter card	Work station expansion.
	A-A1Q2	80	-----	Twinax/IBM cbl	
	Exp ---	10			
	WS cbl	10	2462208	WS adapter card	
	Printer				--- or --- With program check on-- Task work area SVC cannot honor WSWA get/put request.
	A-A1P2				
Program					

B6



SRC	FRU	%	P/N	FRU DESCRIPTION	SERVICE COMMENTS
0207	Hardwar - Program				Wrong work station responded. --- or --- With program check on-- ATR error from DSC -- Data buffer length not valid.
0208	Base -- Printer A-A1Q2 Exp --- Printer A-A1P2 Program	95 5 95 5	2462208 2462208	WS adapter card WS adapter card	Base work station attachment. The work station printer reset at the wrong time. Work station expansion. --- or --- With program check on-- Task work area base ID does not exist.
0209	Base -- Noise Printer A-A1Q2 WS cbl Exp --- Noise Printer A-A1P2 WS cbl Program	40 30 20 10 40 30 20 10	2462208 ----- 2462208 -----	WS adapter card Twinax/IBM cbl WS adapter card Twinax/IBM cbl	Base work station attachment. The work station printer failed to respond to a command.  Work station expansion.  --- or --- With program check on--- Task work area operation not valid.

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SRC	FRU	%	P/N	FRU DESCRIPTION	SERVICE COMMENTS
0211	Hardwar -  Program				Machine check - 5219/5224/ 5225 work station printers.  --- or --- DMA operation time-out for 5553/5557 work station printers.  --- or --- With program check on-- Device ID in IOB on return from DSC not valid.
0212	Hardwar -  Program				Machine check - 5219 work station printers. --- or --- With program check on-- SIO logged IOB not valid.
0214	Program				With program check on-- SMF IOB not valid.
0220	Base -- Noise Printer A-A1Q2 WS cbl A-A1N2  Exp --- Noise Printer A-A1P2 WS cbl A-A1Q2	40 25 20 10 5  40 25 20 10 5	   2462208 ----- 2462206 2462261   2462208 ----- 2462210	WS adapter card Twinax/IBM cbl MS card 128k MS card 256k   WS adapter card Twinax/IBM cbl WS controller card	Base work station attachment. The command sent to the work station printer was not a valid command.  Work station expansion.

SRC	FRU	%	P/N	FRU DESCRIPTION	SERVICE COMMENTS
0221	Base --	60			Base work station attachment. The work station printer has reported an error but the exception status is not valid.  Work station expansion.
	Printer				
	WS cbl	20	-----	Twinax/IBM cbl	
	A-A1Q2	10	2462208	WS adapter card	
	A-A1N2	10	2462206	MS card 128k	
			2462261	MS card 256k	
	Exp ---				
	Printer	60			
	WS cbl	20	-----	Twinax/IBM cbl	
	A-A1P2	10	2462208	WS adapter card	
A-A1Q2	10	2462210	WS controller card		
0222	Base --				Base work station attachment. The number of command bytes sent to the printer was too large.  Work station expansion.
	A-A1Q2	35	2462208	WS adapter card	
	A-A1N2	35	2462206	MS card 128k	
			2462261	MS card 256k	
	Printer	20			
	WS cbl	10	-----	Twinax/IBM cbl	
	Exp ---				
	A-A1P2	35	2462208	WS adapter card	
	A-A1Q2	35	2462210	WS controller card	
	Printer	20			
WS cbl	10	-----	Twinax/IBM cbl		
0223	Base --				Base work station attachment. The work station printer did not respond to an activate command and did not report a parity error.  Work station expansion.
	Noise	40			
	Printer	25			
	A-A1Q2	20	2462208	WS adapter card	
	WS cbl	10	-----	Twinax/IBM cbl	
	A-A1N2	5	2462206	MS card 128k	
			2462261	MS card 256k	
	Exp ---				
	Noise	40			
	Printer	25			
A-A1P2	20	2462208	WS adapter card		
WS cbl	10	-----	Twinax/IBM cbl		
A-A1Q2	5	2462210	WS controller card		

SRC	FRU	%	P/N	FRU DESCRIPTION	SERVICE COMMENTS
0224	Base --				Base work station attachment. The activate command sent to the work station printer was not valid.  Work station expansion.
	Noise	40			
	Printer	25			
	A-A1Q2	20	2462208	WS adapter card	
	WS cbl	10	-----	Twinax/IBM cbl	
	A-A1N2	5	2462206	MS card 128k	
			2462261	MS card 256k	
	Exp ---				
	Noise	40			
	Printer	25			
A-A1P2	20	2462208	WS adapter card		
WS cbl	10	-----	Twinax/IBM cbl		
A-A1Q2	5	2462210	WS controller card		
0225	Base --				Base work station attachment. The work station printer has reported an error with undefined exception status.  Work station expansion.
	Printer	60			
	WS cbl	20	-----	Twinax/IBM cbl	
	A-A1Q2	10	2462208	WS adapter card	
	A-A1N2	10	2462206	MS card 128k	
			2462261	MS card 256k	
	Exp ---				
	Printer	60			
	WS cbl	20	-----	Twinax/IBM cbl	
	A-A1P2	10	2462208	WS adapter card	
A-A1Q2	10	2462210	WS controller card		
0226	Printer	99			The work station printer has reported a not printable character. See the work station printer manual.
0228	Printer	99			Printer data stream command not valid. See the work station printer manual.
0229	Printer	99			Printer data stream parameter not valid. See the work station printer manual.

B10

<b>SRC</b>	<b>FRU</b>	<b>%</b>	<b>P/N</b>	<b>FRU DESCRIPTION</b>	<b>SERVICE COMMENTS</b>
0230	Printer	99			Printer mechanism not ready. See the work station printer manual.
0231	Printer	99			Print check. See the work station printer manual.
0232	Printer -  Program	99			The work station printer has reported a unit error See the work station printer manual. --- or --- With program check on-- OXREF resident table exceeded.
0233	Printer -  Program	99			The work station printer has reported a unit error See the work station printer manual. --- or --- With program check on-- Cannot free this library format-1 -- has active owner.
0234	Printer	99			The work station printer has reported a unit error See the work station printer manual.
0235	Printer -  Program	99			The work station printer has reported a unit error See the work station printer manual. --- or --- With program check on-- Program check in termination end routine.

**B11**

<b>SRC</b>	<b>FRU</b>	<b>%</b>	<b>P/N</b>	<b>FRU DESCRIPTION</b>	<b>SERVICE COMMENTS</b>
0236	Printer	99			Print check. See the work station printer manual.
0237	Printer	99			Print check. See the work station printer manual.
0238	Printer	99			Print check. See the work station printer manual.
0239	Printer -  Program	99			The work station printer has reported a unit error See the work station printer manual. --- or --- With program check on-- SSP not valid.
0240	Printer -  Program	99			The work station printer has reported a unit error See the work station printer manual. --- or --- With program check on-- Program attempted to cancel a noncancelable task.
0241	Printer -  Program	99			The work station printer has reported a unit error See the work station printer manual. --- or --- With program check on-- Disk error while condensing the system library.

**B12**

SRC	FRU	%	P/N	FRU DESCRIPTION	SERVICE COMMENTS
0242	Printer -  Program	99			The work station printer has reported a unit error See the work station printer manual. --- or --- With program check on-- Deallocate or termination found PSB with no TUB.
0243	Printer -  Program	99			The work station printer has reported a unit error See the work station printer manual. --- or --- With program check on-- Command processor task or user task has no JCB.
0244	Printer -  Program	99			The work station printer has reported a unit error See the work station printer manual. --- or --- With program check on-- MICs 3700, 3712, 3713 not found in ##MSG2 member.
0245	Printer -  Program	99			The work station printer has reported a unit error See the work station printer manual. --- or --- With program check on-- MICs 3710 or 3711 not found in ##MSG2 member.

SRC	FRU	%	P/N	FRU DESCRIPTION	SERVICE COMMENTS
0246	Printer -  Program	99			The work station printer has reported a unit error See the work station printer manual. --- or --- With program check on-- Syslog function called by the command processor.
0247	Base -- Printer WS cbl A-A1Q2  Exp --- Printer WS cbl A-A1P2 A-A1Q2 Program	80 10 10  80 10 7 3	----- 2462208  ----- 2462208 2462210	Twinax/IBM cbl WS adapter card  Twinax/IBM cbl WS adapter card WS controller card	Base work station attachment. The work station printer has reported a unit error. See the work station printer manual. Work station expansion. --- or --- With program check on-- IBM module has a WTG table which is not valid or format index table.
0248	Printer -  Program	99			The work station printer has reported a unit error See the work station printer manual. --- or --- With program check on-- Library/file use count is less than zero.

B14



SRC	FRU	%	P/N	FRU DESCRIPTION	SERVICE COMMENTS
0249	Base -- Printer WS cbl A-A1Q2	90 8 5	----- 2462208	Twinax/IBM cbl WS adapter card	Base work station attachment. The work station printer has error status not defined. See the work station printer manual. Work station expansion.  --- or ---
	Exp --- Printer WS cbl A-A1P2 Program	90 8 2	----- 2462208	Twinax/IBM cbl WS adapter card	With program check on-- Required SSP module not found during MSIPL.
0250	Printer -  Program	99			Forms jam or end of forms See the work station printer manual. --- or --- With program check on-- Format-5 extents partially free during file delete.
0251	Printer -  Program	99			Printer not available. See the work station printer manual. --- 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 which is 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.

B15

<b>SRC</b>	<b>FRU</b>	<b>%</b>	<b>P/N</b>	<b>FRU DESCRIPTION</b>	<b>SERVICE COMMENTS</b>
0255	Printer - Program				Shared printer busy. --- or --- With program check on-- SDLC detected MLCA failure
0258	Printer	99			End of ribbon. See the work station printer manual.
0266	Printer	99			The work station printer (5219) has a data stream error. See the work station printer manual.
0267	Printer	99			The work station printer (5219) has a data stream error. See the work station printer manual.
0268	Printer	99			The work station printer (5219) has a data stream error. See the work station printer manual.
0269	Printer	99			The work station printer (5219) has a data stream error. See the work station printer manual.
0281	Printer	99			The work station printer has a cover check or machine check. See the work station printer manual.
0283	Printer	99			The work station printer has a print check. See the work station printer manual.

**B16**

<b>SRC</b>	<b>FRU</b>	<b>%</b>	<b>P/N</b>	<b>FRU DESCRIPTION</b>	<b>SERVICE COMMENTS</b>
0284	Printer	99			The work station printer has a print check. See the work station printer manual.
0285	Printer	99			The work station printer has a printer check. See the work station printer manual.
0286	Printer	99			The work station printer has a machine check. See the work station printer manual.
0287	Printer	99			The work station printer has a machine check. See the work station printer manual.
0288	Printer	99			The work station printer has a ribbon jam. See the work station printer manual.
0289	Printer	99			The work station printer has a ribbon jam. See the work station printer manual.
0290	Printer	99			The work station printer has not changed the even/odd time out bit in 8 seconds indicating a work station printer error.
0291	Printer	99			The work station printer has not completed a command inside of 8 seconds indicating a work station printer error.

SRC	FRU	%	P/N	FRU DESCRIPTION	SERVICE COMMENTS
0bxx					Display LSR Od. If the contents are between dA01-dAFF and the Processor Check light is on, replace A-A1H2 and A-A1J2 with new FRUs. If contents are dA00 suspect A-A1T2, A-A1U2, A-A1V2, A-A1W2, A-A1X2.
1111					Hardware default code. Error condition was not evaluated. Re-IPL to obtain a refined SRC. If system completes IPL, look in ERAP for SRCs at the time of Re-IPL.
1203	A-A1K2 A-A1J2	95 4	2462261 2462205	MS card 256k MSP Data flow card	Replace FRUs first. If this does not fix the problem, go to MIM 105.
1204	A-A1N2 A-A1J2	98 1	2462206 2462205	MS card 128k MSP Data flow card	
1205	A-A1M2 A-A1J2	98 1	2462206 2462205	MS card 128k MSP Data flow card	Replace FRUs first. If this does not fix the problem, go to MIM 105.
1206	A-A1L2 A-A1J2	98 1	2462206 2462205	MS card 128k MSP Data flow card	
1207	A-A1K2 A-A1J2	98 1	2462206 2462205	MS card 128k MSP Data flow card	
1208	A-A1N2	99	2462261	MS card 256k	
1209	A-A1M2 A-A1J2	95 4	2462261 2462205	MS card 256k MSP Data flow card	Replace FRUs first. If this does not fix the problem, go to MIM 105.

B18

<b>SRC</b>	<b>FRU</b>	<b>%</b>	<b>P/N</b>	<b>FRU DESCRIPTION</b>	<b>SERVICE COMMENTS</b>
120A	A-A1L2 A-A1J2	95 4	2462261 2462205	MS card 256k MSP Data flow card	Replace FRUs first. If this does not fix the problem, go to MIM 105.
120d	A-A1J2 A-A1H2	96 3	2462205 2462204	MSP Data flow card MSP Control card	Replace FRUs first. If this does not fix the problem, go to MIM 105.
120E	A-A1J2 A-A1H2	97 2	2462205 2462204	MSP Data flow card MSP Control card	Replace FRUs first. If this does not fix the problem, go to MIM 105.
1213	A-A1J2 A-A1K2 A-A1H2	74 24 1	2462205 2462261 2462204	MSP Data flow card MS card 256k MSP Control card	Replace FRUs first. If this does not fix the problem, go to MIM 105.
1214	A-A1J2 A-A1N2 A-A1H2	82 16 1	2462205 2462206 2462204	MSP Data flow card MS card 128k MSP Control card	Replace FRUs first. If this does not fix the problem, go to MIM 105.
1215	A-A1J2 A-A1M2 A-A1H2	82 16 1	2462205 2462206 2462204	MSP Data flow card MS card 128k MSP Control card	Replace FRUs first. If this does not fix the problem, go to MIM 105.
1216	A-A1J2 A-A1L2 A-A1H2	82 16 1	2462205 2462206 2462204	MSP Data flow card MS card 128k MSP Control card	Replace FRUs first. If this does not fix the problem, go to MIM 105.
1217	A-A1J2 A-A1K2 A-A1H2	82 16 1	2462205 2462206 2462204	MSP Data flow card MS card 128k MSP Control card	Replace FRUs first. If this does not fix the problem, go to MIM 105.

<b>SRC</b>	<b>FRU</b>	<b>%</b>	<b>P/N</b>	<b>FRU DESCRIPTION</b>	<b>SERVICE COMMENTS</b>
1218	A-A1J2	74	2462205	MSP Data flow card	Replace FRUs first. If this does not fix the problem, go to MIM 105.
	A-A1N2	24	2462261	MS card 256k	
	A-A1H2	1	2462204	MSP Control card	
	A-A1M2	1	2462206	MS card 128k	
			2462261	MS card 256k	
1219	A-A1J2	74	2462205	MSP Data flow card	Replace FRUs first. If this does not fix the problem, go to MIM 105.
	A-A1M2	24	2462261	MS card 256k	
	A-A1H2	1	2462204	MSP Control card	
121A	A-A1J2	74	2462205	MSP Data flow card	Replace FRUs first. If this does not fix the problem, go to MIM 105.
	A-A1L2	24	2462261	MS card 256k	
	A-A1H2	1	2462204	MSP Control card	
121d	A-A1H2	98	2462204	MSP Control card	Replace FRUs first. If this does not fix the problem, go to MIM 105.
	A-A1J2	1	2462205	MSP Data flow card	
121E	A-A1H2	98	2462204	MSP Control card	Replace FRUs first. If this does not fix the problem, go to MIM 105.
	A-A1J2	1	2462205	MSP Data flow card	
1223	A-A1J2	72	2462205	MSP Data flow card	Replace FRUs first. If this does not fix the problem, go to MIM 105.
	A-A1K2	26	2462261	MS card 256k	
	A-A1H2	1	2462204	MSP Control card	
1224	A-A1J2	81	2462205	MSP Data flow card	Replace FRUs first. If this does not fix the problem, go to MIM 105.
	A-A1N2	17	2462206	MS card 128k	
	A-A1H2	1	2462204	MSP Control card	
1225	A-A1J2	81	2462205	MSP Data flow card	Replace FRUs first. If this does not fix the problem, go to MIM 105.
	A-A1M2	17	2462206	MS card 128k	
	A-A1H2	1	2462204	MSP Control card	

C2

<b>SRC</b>	<b>FRU</b>	<b>%</b>	<b>P/N</b>	<b>FRU DESCRIPTION</b>	<b>SERVICE COMMENTS</b>
1226	A-A1J2 A-A1L2 A-A1H2	81 17 1	2462205 2462206 2462204	MSP Data flow card MS card 128k MSP Control card	Replace FRUs first. If this does not fix the problem, go to MIM 105.
1227	A-A1J2 A-A1K2 A-A1H2	81 17 1	2462205 2462206 2462204	MSP Data flow card MS card 128k MSP Control card	Replace FRUs first. If this does not fix the problem, go to MIM 105.
1228	A-A1J2 A-A1N2 A-A1H2	72 26 1	2462205 2462261 2462204	MSP Data flow card MS card 256k MSP Control card	Replace FRUs first. If this does not fix the problem, go to MIM 105.
1229	A-A1J2 A-A1M2 A-A1H2	72 26 1	2462205 2462261 2462204	MSP Data flow card MS card 256k MSP Control card	Replace FRUs first. If this does not fix the problem, go to MIM 105.
122A	A-A1J2 A-A1L2 A-A1H2	72 26 1	2462205 2462261 2462204	MSP Data flow card MS card 256k MSP Control card	Replace FRUs first. If this does not fix the problem, go to MIM 105.
122d	A-A1J2	99	2462205	MSP Data flow card	
122E	A-A1J2	99	2462205	MSP Data flow card	
1233	A-A1J2 A-A1K2 A-A1H2	78 19 1	2462205 2462261 2462204	MSP Data flow card MS card 256k MSP Control card	Replace FRUs first. If this does not fix the problem, go to MIM 105.
1234	A-A1J2 A-A1N2 A-A1H2	84 13 2	2462205 2462206 2462204	MSP Data flow card MS card 128k MSP Control card	Replace FRUs first. If this does not fix the problem, go to MIM 105.

<b>SRC</b>	<b>FRU</b>	<b>%</b>	<b>P/N</b>	<b>FRU DESCRIPTION</b>	<b>SERVICE COMMENTS</b>
1235	A-A1J2 A-A1M2 A-A1H2	84 13 2	2462205 2462206 2462204	MSP Data flow card MS card 128k MSP Control card	Replace FRUs first. If this does not fix the problem, go to MIM 105.
1236	A-A1J2 A-A1L2 A-A1H2	84 13 2	2462205 2462206 2462204	MSP Data flow card MS card 128k MSP Control card	Replace FRUs first. If this does not fix the problem, go to MIM 105.
1237	A-A1J2 A-A1K2 A-A1H2	84 13 2	2462205 2462206 2462204	MSP Data flow card MS card 128k MSP Control card	Replace FRUs first. If this does not fix the problem, go to MIM 105.
1238	A-A1J2 A-A1N2 A-A1H2	78 19 2	2462205 2462261 2462204	MSP Data flow card MS card 256k MSP Control card	Replace FRUs first. If this does not fix the problem, go to MIM 105.
1239	A-A1J2 A-A1M2 A-A1H2	78 19 1	2462205 2462261 2462204	MSP Data flow card MS card 256k MSP Control card	Replace FRUs first. If this does not fix the problem, go to MIM 105.
123A	A-A1J2 A-A1L2 A-A1H2	78 19 1	2462205 2462261 2462204	MSP Data flow card MS card 256k MSP Control card	Replace FRUs first. If this does not fix the problem, go to MIM 105.
123d	A-A1H2 A-A1J2	98 1	2462204 2462205	MSP Control card MSP Data flow card	Replace FRUs first. If this does not fix the problem, go to MIM 105.
123E	A-A1H2 A-A1J2	97 2	2462204 2462205	MSP Control card MSP Data flow card	Replace FRUs first. If this does not fix the problem, go to MIM 105.

**C4**



<b>SRC</b>	<b>FRU</b>	<b>%</b>	<b>P/N</b>	<b>FRU DESCRIPTION</b>	<b>SERVICE COMMENTS</b>
1243	A-A1J2 A-A1K2 A-A1H2	53 45 1	2462205 2462261 2462204	MSP Data flow card MS card 256k MSP Control card	Replace FRUs first. If this does not fix the problem, go to MIM 105.
1244	A-A1J2 A-A1N2 A-A1H2	67 31 1	2462205 2462206 2462204	MSP Data flow card MS card 128k MSP Control card	Replace FRUs first. If this does not fix the problem, go to MIM 105.
1245	A-A1J2 A-A1M2 A-A1H2	67 31 1	2462205 2462206 2462204	MSP Data flow card MS card 128k MSP Control card	Replace FRUs first. If this does not fix the problem, go to MIM 105.
1246	A-A1J2 A-A1L2 A-A1H2	67 31 1	2462205 2462206 2462204	MSP Data flow card MS card 128k MSP Control card	Replace FRUs first. If this does not fix the problem, go to MIM 105.
1247	A-A1J2 A-A1K2 A-A1H2	67 31 1	2462205 2462206 2462204	MSP Data flow card MS card 128k MSP Control card	Replace FRUs first. If this does not fix the problem, go to MIM 105.
1248	A-A1J2 A-A1N2 A-A1H2	53 45 1	2462205 2462261 2462204	MSP Data flow card MS card 256k MSP Control card	Replace FRUs first. If this does not fix the problem, go to MIM 105.
1249	A-A1J2 A-A1M2 A-A1H2	53 45 1	2462205 2462261 2462204	MSP Data flow card MS card 256k MSP Control card	Replace FRUs first. If this does not fix the problem, go to MIM 105.
124A	A-A1J2 A-A1L2 A-A1H2	53 45 1	2462205 2462261 2462204	MSP Data flow card MS card 256k MSP Control card	Replace FRUs first. If this does not fix the problem, go to MIM 105.
124d	A-A1H2	99	2462204	MSP Control card	

C5

<b>SRC</b>	<b>FRU</b>	<b>%</b>	<b>P/N</b>	<b>FRU DESCRIPTION</b>	<b>SERVICE COMMENTS</b>
124E	A-A1H2	99	2462204	MSP Control card	
1253	A-A1K2 A-A1J2 A-A1H2	50 48 1	2462261 2462205 2462204	MS card 256k MSP Data flow card MSP Control card	Replace FRUs first. If this does not fix the problem, go to MIM 105.
1254	A-A1J2 A-A1N2 A-A1H2	61 37 1	2462205 2462206 2462204	MSP Data flow card MS card 128k MSP Control card	Replace FRUs first. If this does not fix the problem, go to MIM 105.
1255	A-A1J2 A-A1M2 A-A1H2	61 37 1	2462205 2462206 2462204	MSP Data flow card MS card 128k MSP Control card	Replace FRUs first. If this does not fix the problem, go to MIM 105.
1256	A-A1J2 A-A1L2 A-A1H2	61 37 1	2462205 2462206 2462204	MSP Data flow card MS card 128k MSP Control card	Replace FRUs first. If this does not fix the problem, go to MIM 105.
1257	A-A1J2 A-A1K2 A-A1H2	61 37 1	2462205 2462206 2462204	MSP Data flow card MS card 128k MSP Control card	Replace FRUs first. If this does not fix the problem, go to MIM 105.
1258	A-A1N2 A-A1J2 A-A1H2	50 48 1	2462261 2462205 2462204	MS card 256k MSP Data flow card MSP Control card	Replace FRUs first. If this does not fix the problem, go to MIM 105.
1259	A-A1M2 A-A1J2 A-A1H2	50 48 1	2462261 2462205 2462204	MS card 256k MSP Data flow card MSP Control card	Replace FRUs first. If this does not fix the problem, go to MIM 105.

## C6

<b>SRC</b>	<b>FRU</b>	<b>%</b>	<b>P/N</b>	<b>FRU DESCRIPTION</b>	<b>SERVICE COMMENTS</b>
125A	A-A1L2	50	2462261	MS card 256k	Replace FRUs first. If this does not fix the problem, go to MIM 105.
	A-A1J2	48	2462205	MSP Data flow card	
	A-A1H2	1	2462204	MSP Control card	
125E	A-A1H2	99	2462204	MSP Control card	
1263	A-A1J2	59	2462205	MSP Data flow card	Replace FRUs first. If this does not fix the problem, go to MIM 105.
	A-A1K2	36	2462261	MS card 256k	
	A-A1H2	4	2462204	MSP Control card	
1264	A-A1J2	53	2462205	MSP Data flow card	Replace FRUs first. If this does not fix the problem, go to MIM 105.
	A-A1N2	39	2462206	MS card 128k	
	A-A1H2	7	2462204	MSP Control card	
1265	A-A1J2	53	2462205	MSP Data flow card	Replace FRUs first. If this does not fix the problem, go to MIM 105.
	A-A1M2	39	2462206	MS card 128k	
	A-A1H2	7	2462204	MSP Control card	
1266	A-A1J2	53	2462205	MSP Data flow card	Replace FRUs first. If this does not fix the problem, go to MIM 105.
	A-A1L2	39	2462206	MS card 128k	
	A-A1H2	7	2462204	MSP Control card	
1267	A-A1J2	53	2462205	MSP Data flow card	Replace FRUs first. If this does not fix the problem, go to MIM 105.
	A-A1K2	39	2462206	MS card 128k	
	A-A1H2	7	2462204	MSP Control card	
1268	A-A1J2	76	2462205	MSP Data flow card	Replace FRUs first. If this does not fix the problem, go to MIM 105.
	A-A1N2	13	2462261	MS card 256k	
	A-A1H2	10	2462204	MSP Control card	
1269	A-A1J2	76	2462205	MSP Data flow card	Replace FRUs first. If this does not fix the problem, go to MIM 105.
	A-A1M2	13	2462261	MS card 256k	
	A-A1H2	10	2462204	MSP Control card	

C7

<b>SRC</b>	<b>FRU</b>	<b>%</b>	<b>P/N</b>	<b>FRU DESCRIPTION</b>	<b>SERVICE COMMENTS</b>
126A	A-A1J2	59	2462205	MSP Data flow card	Replace FRUs first. If this does not fix the problem, go to MIM 105.
	A-A1L2	36	2462261	MS card 256k	
	A-A1H2	4	2462204	MSP Control card	
126E	A-A1H2	99	2462204	MSP Control card	
1273	A-A1K2	86	2462261	MS card 256k	Replace FRUs first. If this does not fix the problem, go to MIM 105.
	A-A1J2	8	2462205	MSP Data flow card	
	A-A1H2	5	2462204	MSP Control card	
1274	A-A1N2	88	2462206	MS card 128k	Replace FRUs first. If this does not fix the problem, go to MIM 105.
	A-A1J2	6	2462205	MSP Data flow card	
	A-A1H2	5	2462204	MSP Control card	
1275	A-A1M2	88	2462206	MS card 128k	Replace FRUs first. If this does not fix the problem, go to MIM 105.
	A-A1J2	6	2462205	MSP Data flow card	
	A-A1H2	5	2462204	MSP Control card	
1276	A-A1L2	88	2462206	MS card 128k	Replace FRUs first. If this does not fix the problem, go to MIM 105.
	A-A1J2	6	2462205	MSP Data flow card	
	A-A1H2	5	2462204	MSP Control card	
1277	A-A1K2	88	2462206	MS card 128k	Replace FRUs first. If this does not fix the problem, go to MIM 105.
	A-A1J2	6	2462205	MSP Data flow card	
	A-A1H2	5	2462204	MSP Control card	
1278	A-A1N2	86	2462261	MS card 256k	Replace FRUs first. If this does not fix the problem, go to MIM 105.
	A-A1J2	8	2462205	MSP Data flow card	
	A-A1H2	5	2462204	MSP Control card	
1279	A-A1M2	86	2462261	MS card 256k	Replace FRUs first. If this does not fix the problem, go to MIM 105.
	A-A1J2	8	2462205	MSP Data flow card	
	A-A1H2	5	2462204	MSP Control card	
127A	A-A1L2	86	2462261	MS card 256k	Replace FRUs first. If this does not fix the problem, go to MIM 105.
	A-A1J2	8	2462205	MSP Data flow card	
	A-A1H2	5	2462204	MSP Control card	

**C8**

<b>SRC</b>	<b>FRU</b>	<b>%</b>	<b>P/N</b>	<b>FRU DESCRIPTION</b>	<b>SERVICE COMMENTS</b>
127d	A-A1J2 A-A1H2	92 7	2462205 2462204	MSP Data flow card MSP Control card	Replace FRUs first. If this does not fix the problem, go to MIM 105.
1283	A-A1K2 A-A1J2	98 1	2462261 2462205	MS card 256k MSP Data flow card	Replace FRUs first. If this does not fix the problem, go to MIM 105.
1284	A-A1N2 A-A1J2	98 1	2462206 2462205	MS card 128k MSP Data flow card	Replace FRUs first. If this does not fix the problem, go to MIM 105.
1285	A-A1M2 A-A1J2	98 1	2462206 2462205	MS card 128k MSP Data flow card	Replace FRUs first. If this does not fix the problem, go to MIM 105.
1286	A-A1L2 A-A1J2	98 1	2462206 2462205	MS card 128k MSP Data flow card	Replace FRUs first. If this does not fix the problem, go to MIM 105.
1287	A-A1K2 A-A1J2	98 1	2462206 2462205	MS card 128k MSP Data flow card	Replace FRUs first. If this does not fix the problem, go to MIM 105.
1288	A-A1N2 A-A1J2	98 1	2462261 2462205	MS card 256k MSP Data flow card	Replace FRUs first. If this does not fix the problem, go to MIM 105.
1289	A-A1M2 A-A1J2	98 1	2462261 2462205	MS card 256k MSP Data flow card	Replace FRUs first. If this does not fix the problem, go to MIM 105.

<b>SRC</b>	<b>FRU</b>	<b>%</b>	<b>P/N</b>	<b>FRU DESCRIPTION</b>	<b>SERVICE COMMENTS</b>
128A	A-A1L2 A-A1J2	98 1	2462261 2462205	MS card 256k MSP Data flow card	Replace FRUs first. If this does not fix the problem, go to MIM 105.
12d3	A-A1K2 A-A1J2 A-A1H2	51 47 1	2462261 2462205 2462204	MS card 256k MSP Data flow card MSP Control card	Replace FRUs first. If this does not fix the problem, go to MIM 105.
12d4	A-A1N2 A-A1J2 A-A1H2	46 27 26	2462206 2462205 2462204	MS card 128k MSP Data flow card MSP Control card	Replace FRUs first. If this does not fix the problem, go to MIM 105.
12d5	A-A1M2 A-A1J2 A-A1H2	46 27 26	2462206 2462205 2462204	MS card 128k MSP Data flow card MSP Control card	Replace FRUs first. If this does not fix the problem, go to MIM 105.
12d6	A-A1L2 A-A1J2 A-A1H2	46 27 26	2462206 2462205 2462204	MS card 128k MSP Data flow card MSP Control card	Replace FRUs first. If this does not fix the problem, go to MIM 105.
12d7	A-A1K2 A-A1J2 A-A1H2	46 27 26	2462206 2462205 2462204	MS card 128k MSP Data flow card MSP Control card	Replace FRUs first. If this does not fix the problem, go to MIM 105.
12d8	A-A1J2 A-A1N2 A-A1H2	51 47 1	2462205 2462261 2462204	MSP Data flow card MS card 256k MSP Control card	Replace FRUs first. If this does not fix the problem, go to MIM 105.
12d9	A-A1J2 A-A1M2 A-A1H2	51 47 1	2462205 2462261 2462204	MSP Data flow card MS card 256k MSP Control card	Replace FRUs first. If this does not fix the problem, go to MIM 105.

## C10

SRC	FRU	%	P/N	FRU DESCRIPTION	SERVICE COMMENTS
12dA	A-A1J2	51	2462205	MSP Data flow card	Replace FRUs first. If this does not fix the problem, go to MIM 105.
	A-A1L2	47	2462261	MS card 256k	
	A-A1H2	1	2462204	MSP Control card	
12E0	A-A1H2	51	2462204	MSP Control card	Replace FRUs first. If this does not fix the problem, go to MIM 105.
	A-A1J2	48	2462205	MSP Data flow card	
12E3	A-A1K2	84	2462261	MS card 256k	Replace FRUs first. If this does not fix the problem, go to MIM 105.
	A-A1J2	8	2462205	MSP Data flow card	
	A-A1H2	7	2462204	MSP Control card	
12E4	A-A1N2	79	2462206	MS card 128k	Replace FRUs first. If this does not fix the problem, go to MIM 105.
	A-A1J2	19	2462205	MSP Data flow card	
	A-A1H2	1	2462204	MSP Control card	
12E5	A-A1N2	79	2462206	MS card 128k	Replace FRUs first. If this does not fix the problem, go to MIM 105.
	A-A1J2	19	2462205	MSP Data flow card	
	A-A1H2	1	2462204	MSP Control card	
12E6	A-A1L2	79	2462206	MS card 128k	Replace FRUs first. If this does not fix the problem, go to MIM 105.
	A-A1J2	19	2462205	MSP Data flow card	
	A-A1H2	1	2462204	MSP Control card	
12E7	A-A1K2	79	2462206	MS card 128k	Replace FRUs first. If this does not fix the problem, go to MIM 105.
	A-A1J2	19	2462205	MSP Data flow card	
	A-A1H2	1	2462204	MSP Control card	
12E8	A-A1N2	84	2462261	MS card 256k	Replace FRUs first. If this does not fix the problem, go to MIM 105.
	A-A1J2	8	2462205	MSP Data flow card	
	A-A1H2	7	2462204	MSP Control card	
12E9	A-A1M2	84	2462261	MS card 256k	Replace FRUs first. If this does not fix the problem, go to MIM 105.
	A-A1J2	8	2462205	MSP Data flow card	
	A-A1H2	7	2462204	MSP Control card	

## C11

<b>SRC</b>	<b>FRU</b>	<b>%</b>	<b>P/N</b>	<b>FRU DESCRIPTION</b>	<b>SERVICE COMMENTS</b>
12EA	A-A1L2	84	2462261	MS card 256k	Replace FRUs first. If this does not fix the problem, go to MIM 105.
	A-A1J2	8	2462205	MSP Data flow card	
	A-A1H2	7	2462204	MSP Control card	
12F0	A-A1J2	99	2462205	MSP Data flow card	
12F3	A-A1K2	98	2462261	MS card 256k	Replace FRUs first. If this does not fix the problem, go to MIM 105.
	A-A1J2	1	2462205	MSP Data flow card	
12F4	A-A1N2	98	2462206	MS card 128k	Replace FRUs first. If this does not fix the problem, go to MIM 105.
	A-A1J2	1	2462205	MSP Data flow card	
12F5	A-A1M2	98	2462206	MS card 128k	Replace FRUs first. If this does not fix the problem, go to MIM 105.
	A-A1J2	1	2462205	MSP Data flow card	
12F6	A-A1L2	98	2462206	MS card 128k	Replace FRUs first. If this does not fix the problem, go to MIM 105.
	A-A1J2	1	2462205	MSP Data flow card	
12F7	A-A1K2	98	2462206	MS card 128k	Replace FRUs first. If this does not fix the problem, go to MIM 105.
	A-A1J2	1	2462205	MSP Data flow card	
12F8	A-A1N2	98	2462261	MS card 256k	Replace FRUs first. If this does not fix the problem, go to MIM 105.
	A-A1J2	1	2462205	MSP Data flow card	

## C12



SRC	FRU	%	P/N	FRU DESCRIPTION	SERVICE COMMENTS
12F9	A-A1M2	98	2462261	MS card 256k	Replace FRUs first. If this does not fix the problem, go to MIM 105.
	A-A1J2	1	2462205	MSP Data flow card	
12FA	A-A1L2	98	2462261	MS card 256k	Replace FRUs first. If this does not fix the problem, go to MIM 105.
	A-A1J2	1	2462205	MSP Data flow card	
12FE	A-A1H2	37	2462204	MSP Control card	MSP/MS error occurred, but could not be logged. Go to MIM 105.
	A-A1J2	37	2462205	MSP Data flow card	
	A-A1K2	6	2462206	MS card 128k	
		6	2462261	MS card 256k	
	A-A1L2	6	2462206	MS card 128k	
		6	2462261	MS card 256k	
	A-A1M2	6	2462206	MS card 128k	
A-A1N2	6	2462261	MS card 256k		
	6	2462206	MS card 128k		
12FF	A-A1H2	37	2462204	MSP Control card	Unexpected error. K2, L2, M2 may not be present depending on main storage size. Go to MIM 105.
	A-A1J2	37	2462205	MSP Data flow card	
	A-A1K2	6	2462206	MS card 128k	
		6	2462261	MS card 256k	
	A-A1L2	6	2462206	MS card 128k	
		6	2462261	MS card 256k	
	A-A1M2	6	2462206	MS card 128k	
A-A1N2	6	2462261	MS card 256k		
	6	2462206	MS card 128k		
			2462261	MS card 256k	

C13

SRC	FRU	%	P/N	FRU DESCRIPTION	SERVICE COMMENTS
1600	A-A1G2	45	2462203	CSP card	Error during cycle steal to MLCA.
	A-A1T2	40	2462210	ELCA controller card	
			2462211	SLCA pass-thru card	
			2462212	CSEIA card	
	A-A1U2	2	2462214	CSDDA card	
			2462213	CSX21 card	
			2462215	CSV35 card	
			2462212	CSEIA card	
	A-A1V2	2	2462214	CSDDA card	
			2462213	CSX21 card	
			2462215	CSV35 card	
			2462212	CSEIA card	
	A-A1W2	2	2462212	CSEIA card	
			2462214	CSDDA card	
			2462213	CSX21 card	
2462215			CSV35 card		
A-A1X2	2	2462212	CSEIA card		
		2462214	CSDDA card		
		2462213	CSX21 card		
		2462215	CSV35 card		
A-A1C2	1	2462209	DSA2 card		
A-A1D2	1	2462201	DSA1 card		
A-A1Q2	1	2462208	WS adapter card		
		2462210	WS controller card		
1601	A-A1G2	45	2462203	CSP card	I/O time out, P check or address which is not valid during MLCA.
	A-A1T2	40	2462210	ELCA controller card	
			2462211	SLCA pass-thru card	
			2462212	CSEIA card	
	A-A1U2	1	2462214	CSDDA card	
			2462213	CSX21 card	
			2462215	CSV35 card	
			2462209	DSA2 card	
A-A1D2	1	2462201	DSA1 card		
A-A1Q2	1	2462208	WS adapter card		
		2462210	WS controller card		

## C14

SRC	FRU	%	P/N	FRU DESCRIPTION	SERVICE COMMENTS
1602	A-A1G2	45	2462203	CSP card	I/O time out, P check or address which not valid during MLCA.
	A-A1T2	40	2462210	ELCA controller card	
			2462211	SLCA pass-thru card	
	A-A1U2	1	2462212	CSEIA card	
			2462214	CSDDA card	
			2462213	CSX21 card	
			2462215	CSV35 card	
	A-A1C2	1	2462209	DSA2 card	
	A-A1D2	1	2462201	DSA1 card	
	A-A1Q2	1	2462208	WS adapter card	
		2462210	WS controller card		
1603	A-A1G2	45	2462203	CSP card	Error during cycle steal or I/O instruction to/ from DSA 2.
	A-A1D2	45	2462201	DSA1 card	
	A-A1C2	1	2462209	DSA2 card	
	A-A1Q2	1	2462208	WS adapter card	
			2462210	WS controller card	
	A-A1T2	1	2462210	ELCA controller card	
			2462211	SLCA pass-thru card	
	A-A1U2	1	2462212	CSEIA card	
			2462214	CSDDA card	
			2462213	CSX21 card	
		2462215	CSV35 card		
1605	A-A1G2	45	2462203	CSP card	Error during cycle steal or I/O instruction to/ from DSA 1.
	A-A1C2	45	2462209	DSA2 card	
	A-A1D2	1	2462201	DSA1 card	
	A-A1Q2	1	2462208	WS adapter card	
			2462210	WS controller card	
	A-A1T2	1	2462210	ELCA controller card	
			2462211	SLCA pass-thru card	
	A-A1U2	1	2462212	CSEIA card	
			2462214	CSDDA card	
			2462213	CSX21 card	
		2462215	CSV35 card		

SRC	FRU	%	P/N	FRU DESCRIPTION	SERVICE COMMENTS
1606	A-A1G2	45	2462203	CSP card	Error during cycle steal to MLCA.
	A-A1T2	40	2462210	ELCA controller card	
			2462211	SLCA pass-thru card	
	A-A1U2	2	2462212	CSEIA card	
			2462214	CSDDA card	
			2462213	CSX21 card	
			2462215	CSV35 card	
	A-A1V2	2	2462212	CSEIA card	
			2462214	CSDDA card	
			2462213	CSX21 card	
			2462215	CSV35 card	
	A-A1W2	2	2462212	CSEIA card	
			2462214	CSDDA card	
			2462213	CSX21 card	
		2462215	CSV35 card		
A-A1X2	2	2462212	CSEIA card		
		2462214	CSDDA card		
		2462213	CSX21 card		
		2462215	CSV35 card		
	A-A1C2	1	2462209	DSA2 card	
	A-A1D2	1	2462201	DSA1 card	
	A-A1Q2	1	2462208	WS adapter card	
			2462210	WS controller card	
160A	A-A1G2	45	2462203	CSP card	Error during cycle steal or I/O instruction to/ from work station line adapter or controller.
	A-A1Q2	45	2462208	WS adapter card	
			2462210	WS controller card	
	A-A1P2	1	2462208	WS adapter card	
	A-A1C2	1	2462209	DSA2 card	
	A-A1D2	1	2462201	DSA1 card	
	A-A1T2	1	2462210	ELCA controller card	
			2462211	SLCA pass-thru card	
A-A1U2	1	2462212	CSEIA card		
		2462214	CSDDA card		
		2462213	CSX21 card		
		2462215	CSV35 card		
160F					See 16FF SRC.
1611					See 16FF SRC.
1616					See 16FF SRC.

## C16

SRC	FRU	%	P/N	FRU DESCRIPTION	SERVICE COMMENTS
161C	A-A1G2	30	2462203	CSP card	Error during cycle steal between MSP, SLCA and/or MLCA.
	A-A1J2	30	2462205	MSP Data flow card	
	A-A1T2	25	2462210	ELCA controller card	
			2462211	SLCA pass-thru card	
	A-A1U2	2	2462212	CSEIA card	
			2462214	CSDDA card	
			2462213	CSX21 card	
			2462215	CSV35 card	
	A-A1V2	2	2462212	CSEIA card	
			2462214	CSDDA card	
			2462213	CSX21 card	
	A-A1W2	2	2462215	CSV35 card	
			2462212	CSEIA card	
			2462214	CSDDA card	
	A-A1X2	2	2462213	CSX21 card	
2462215			CSV35 card		
2462212			CSEIA card		
2462214			CSDDA card		
A-A1C2	1	2462213	CSX21 card		
		2462215	CSV35 card		
		2462209	DSA2 card		
A-A1D2	1	2462201	DSA1 card		
A-A1Q2	1	2462208	WS adapter card		
		2462210	WS controller card		
161E	A-A1G2	30	2462203	CSP card	Error during cycle steal between MSP and DSA 2.
	A-A1J2	30	2462205	MSP Data flow card	
	A-A1C2	30	2462209	DSA2 card	
	A-A1D2	1	2462201	DSA1 card	
	A-A1Q2	1	2462208	WS adapter card	
			2462210	WS controller card	
	A-A1T2	1	2462210	ELCA controller card	
			2462211	SLCA pass-thru card	
	A-A1U2	1	2462212	CSEIA card	
2462214			CSDDA card		
2462213			CSX21 card		
			2462215	CSV35 card	

C17

SRC	FRU	%	P/N	FRU DESCRIPTION	SERVICE COMMENTS
1620	A-A1G2	30	2462203	CSP card	Error during cycle steal between MSP, work station line adapter and/or controller.
	A-A1J2	30	2462205	MSP Data flow card	
	A-A1Q2	30	2462208	WS adapter card	
			2462210	WS controller card	
	A-A1C2	1	2462209	DSA2 card	
	A-A1D2	1	2462201	DSA1 card	
	A-A1T2	1	2462210	ELCA controller card	
			2462211	SLCA pass-thru card	
	A-A1U2	1	2462212	CSEIA card	
			2462214	CSDDA card	
		2462213	CSX21 card		
		2462215	CSV35 card		
1621	A-A1G2	30	2462203	CSP card	Error during cycle steal between MSP and DSA 1.
	A-A1J2	30	2462205	MSP Data flow card	
	A-A1D2	30	2462201	DSA1 card	
	A-A1C2	1	2462209	DSA2 card	
	A-A1Q2	1	2462208	WS adapter card	
			2462210	WS controller card	
	A-A1T2	1	2462210	ELCA controller card	
			2462211	SLCA pass-thru card	
	A-A1U2	1	2462212	CSEIA card	
			2462214	CSDDA card	
		2462213	CSX21 card		
		2462215	CSV35 card		

C18

SRC	FRU	%	P/N	FRU DESCRIPTION	SERVICE COMMENTS
1622	A-A1G2	30	2462203	CSP card	Error during cycle steal between MSP, SLCA and/or MLCA.
	A-A1J2	30	2462205	MSP Data flow card	
	A-A1T2	25	2462210	ELCA controller card	
			2462211	SLCA pass-thru card	
	A-A1U2	2	2462212	CSEIA card	
			2462214	CSDDA card	
			2462213	CSX21 card	
			2462215	CSV35 card	
	A-A1V2	2	2462212	CSEIA card	
			2462214	CSDDA card	
			2462213	CSX21 card	
			2462215	CSV35 card	
	A-A1W2	2	2462212	CSEIA card	
			2462214	CSDDA card	
			2462213	CSX21 card	
		2462215	CSV35 card		
A-A1X2	2	2462212	CSEIA card		
		2462214	CSDDA card		
		2462213	CSX21 card		
		2462215	CSV35 card		
A-A1C2	1	2462209	DSA2 card		
A-A1D2	1	2462201	DSA1 card		
A-A1Q2	1	2462208	WS adapter card		
		2462210	WS controller card		
1630	A-A1G2	30	2462203	CSP card	3 second time out during cycle steal.
	A-A1N2/	30	2462206	MS card 128k	
			2462261	MS card 256k	
	A-A1M2/ A-A1L2/ A-A1K2				
	A-A1J2	30	2462205	MSP Data flow card	
	A-A1H2	5	2462204	MSP Control card	
1635	A-A1G2	90	2462203	CSP card	Storage check or LSR check.
	A-A1F2	5	2462202	Control panel card	

D1

SRC	FRU	%	P/N	FRU DESCRIPTION	SERVICE COMMENTS
1645	A-A1G2	24	2462203	CSP card	Error during SILSB on interrupt level 4.
	A-A1C2	24	2462209	DSA2 card	
	A-A1D2	24	2462201	DSA1 card	
	A-A1Q2	24	2462208	WS adapter card	
			2462210	WS controller card	
	A-A1T2	1	2462210	ELCA controller card	
			2462211	SLCA pass-thru card	
	A-A1U2	1	2462212	CSEIA card	
			2462214	CSDDA card	
			2462213	CSX21 card	
		2462215	CSV35 card		
164A	A-A1G2	45	2462203	CSP card	Error during SILSB on interrupt level 2.
	A-A1T2	40	2462210	ELCA controller card	
			2462211	SLCA pass-thru card	
	A-A1U2	2	2462212	CSEIA card	
			2462214	CSDDA card	
			2462213	CSX21 card	
			2462215	CSV35 card	
	A-A1V2	2	2462212	CSEIA card	
			2462214	CSDDA card	
			2462213	CSX21 card	
	A-A1W2	2	2462215	CSV35 card	
			2462212	CSEIA card	
			2462214	CSDDA card	
			2462213	CSX21 card	
	A-A1X2	2	2462215	CSV35 card	
			2462212	CSEIA card	
			2462214	CSDDA card	
		2462213	CSX21 card		
		2462215	CSV35 card		
A-A1C2	1	2462209	DSA2 card		
A-A1D2	1	2462201	DSA1 card		
A-A1Q2	1	2462208	WS adapter card		
		2462210	WS controller card		
1650	A-A1G2	45	2462203	CSP card	3 or 4 second time out.
	A-A1J2	45	2462205	MSP Data flow card	
	A-A1F2	5	2462202	Control panel card	

D2



SRC	FRU	%	P/N	FRU DESCRIPTION	SERVICE COMMENTS
1674	A-A1G2	47	2462203	CSP card	The data written to stg had bad parity.
	A-A1N2	43	2462206	MS card 128k	
	A-A1J2	6	2462205	MSP Data flow card	
	A-A1H2	3	2462204	MSP Control card	
	A-A1	1	2453968	A1 Board	
1675	A-A1G2	47	2462203	CSP card	Main stg write parity check.
	A-A1M2	43	2462206	MS card 128k	
	A-A1J2	6	2462205	MSP Data flow card	
	A-A1H2	4	2462204	MSP Control card	
1676	A-A1G2	47	2462203	CSP card	Main stg write parity check.
	A-A1L2	43	2462206	MS card 128k	
	A-A1J2	6	2462205	MSP Data flow card	
	A-A1H2	4	2462204	MSP Control card	
1677	A-A1G2	47	2462203	CSP card	Main stg write parity check.
	A-A1K2	43	2462206	MS card 128k	
	A-A1J2	6	2462205	MSP Data flow card	
	A-A1H2	4	2462204	MSP Control card	
1678	A-A1G2	75	2462203	CSP card	The data written to stg had bad parity.
	A-A1J2	12	2462205	MSP Data flow card	
	A-A1N2	10	2462261	MS card 256k	
	A-A1H2	1	2462204	MSP Control card	
	A-A1	1	2453968	A1 Board	
1679	A-A1G2	76	2462203	CSP card	Main stg write parity check.
	A-A1J2	12	2462205	MSP Data flow card	
	A-A1M2	10	2462261	MS card 256k	
	A-A1H2	1	2462204	MSP Control card	
167b	A-A1G2	76	2462203	CSP card	The data written to stg had bad parity.
	A-A1J2	12	2462205	MSP Data flow card	
	A-A1K2	10	2462261	MS card 256k	
	A-A1H2	1	2462204	MSP Control card	
1684	A-A1N2	87	2462206	MS card 128k	Main stg write parity check.
	A-A1J2	11	2462205	MSP Data flow card	
	A-A1H2	1	2462204	MSP Control card	
	A-A1G2	1	2462203	CSP card	

D3

SRC	FRU	%	P/N	FRU DESCRIPTION	SERVICE COMMENTS
1685	A-A1M2	87	2462206	MS card 128k	Main stg write parity check.
	A-A1J2	11	2462205	MSP Data flow card	
	A-A1H2	1	2462204	MSP Control card	
	A-A1G2	1	2462203	CSP card	
1686	A-A1L2	87	2462206	MS card 128k	Main stg write parity check.
	A-A1J2	11	2462205	MSP Data flow card	
	A-A1H2	1	2462204	MSP Control card	
	A-A1G2	1	2462203	CSP card	
1687	A-A1K2	87	2462206	MS card 128k	Main stg write parity check.
	A-A1J2	11	2462205	MSP Data flow card	
	A-A1H2	1	2462204	MSP Control card	
	A-A1G2	1	2462203	CSP card	
1688	A-A1N2	50	2462261	MS card 256k	Main stg write parity check.
	A-A1J2	48	2462205	MSP Data flow card	
	A-A1H2	1	2462204	MSP Control card	
	A-A1G2	1	2462203	CSP card	
1689	A-A1J2	48	2462205	MSP Data flow card	Main stg write parity check.
	A-A1M2	40	2462261	MS card 256k	
	A-A1H2	1	2462204	MSP Control card	
	A-A1G2	1	2462203	CSP card	
168A	A-A1L2	50	2462261	MS card 256k	Main stg write parity check.
	A-A1J2	48	2462205	MSP Data flow card	
	A-A1H2	1	2462204	MSP Control card	
	A-A1G2	1	2462203	CSP card	
168b	A-A1J2	48	2462205	MSP Data flow card	Main stg write parity check.
	A-A1K2	40	2462261	MS card 256k	
	A-A1H2	1	2462204	MSP Control card	
	A-A1G2	1	2462203	CSP card	
16E8	A-A1G2	59	2462203	CSP card	Wrong MSP error.
	A-A1J2	41	2462205	MSP Data flow card	
16EA	A-A1G2	94	2462203	CSP card	MSP MSAR parity check.
	A-A1J2	6	2462205	MSP Data flow card	
16Eb	A-A1G2	60	2462203	CSP card	Wrong MSP error during cycle steal.
	A-A1J2	40	2462205	MSP Data flow card	
16EC	A-A1G2	60	2462203	CSP card	MSP MSAR parity check during cycle steal.
	A-A1J2	40	2462205	MSP Data flow card	

D4

<b>SRC</b>	<b>FRU</b>	<b>%</b>	<b>P/N</b>	<b>FRU DESCRIPTION</b>	<b>SERVICE COMMENTS</b>
16F0	A-A1G2 A-A1F2	90 5	2462203 2462202	CSP card Control panel card	CSP LSR Parity check. Re-IPL, if sign-on screen comes up, use ERAP to obtain a new SRC. Otherwise, use SRC from Re-IPL.
16F1	A-A1K2/ A-A1L2/ A-A1M2/ A-A1N2 A-A1U2  A-A1J2	75   20  5	2462206 2462261  2462212 2462214 2462213 2462215 2462205	MS card 128k MS card 256k  CSEIA card CSDDA card CSX21 card CSV35 card MSP Data flow card	MSP error: main storage access timeout. MSIPL, if sign-on screen comes up, use ERAP to obtain a new SRC. Otherwise, use SRC from Re-IPL.
16F2	A-A1J2 A-A1H2 A-A1K2/  A-A1L2/ A-A1M2/ A-A1N2	75 30 15    	2462205 2462204 2462206 2462261	MSP Data flow card MSP Control card MS card 128k MS card 256k	MSP error: Parity checks  MSIPL, if sign-on screen comes up, use ERAP to obtain a new SRC. Otherwise, use SRC from Re-IPL.

<b>SRC</b>	<b>FRU</b>	<b>%</b>	<b>P/N</b>	<b>FRU DESCRIPTION</b>	<b>SERVICE COMMENTS</b>
<b>16F3</b>	<b>A-A1G2</b>	<b>15</b>	<b>2462203</b>	<b>CSP card</b>	CSP channel error.  MSIPL, if sign-on screen comes up, use ERAP to obtain a new SRC. Otherwise, use SRC from Re-IPL.
	<b>A-A1C2</b>	<b>15</b>	<b>2462209</b>	<b>DSA2 card</b>	
	<b>A-A1D2</b>	<b>15</b>	<b>2462201</b>	<b>DSA1 card</b>	
	<b>A-A1Q2</b>	<b>15</b>	<b>2462208</b>	<b>WS adapter card</b>	
	<b>A-A1T2</b>	<b>15</b>	<b>2462210</b>	<b>WS controller card</b>	
			<b>2462211</b>	<b>ELCA controller card</b>	
	<b>A-A1U2</b>	<b>5</b>	<b>2462212</b>	<b>SLCA pass-thru card</b>	
			<b>2462214</b>	<b>CSEIA card</b>	
			<b>2462213</b>	<b>CSDDA card</b>	
			<b>2462215</b>	<b>CSX21 card</b>	
	<b>A-A1P2</b>	<b>5</b>	<b>2462215</b>	<b>CSV35 card</b>	
			<b>2462208</b>	<b>WS adapter card</b>	
	<b>A-A1F2</b>	<b>5</b>	<b>2462202</b>	<b>Control panel card</b>	
	<b>A-A1V2</b>	<b>2</b>	<b>2462212</b>	<b>CSEIA card</b>	
			<b>2462214</b>	<b>CSDDA card</b>	
			<b>2462213</b>	<b>CSX21 card</b>	
			<b>2462215</b>	<b>CSV35 card</b>	
			<b>2462215</b>	<b>CSV35 card</b>	
	<b>A-A1W2</b>	<b>2</b>	<b>2462212</b>	<b>CSEIA card</b>	
<b>2462214</b>			<b>CSDDA card</b>		
<b>2462213</b>			<b>CSX21 card</b>		
<b>2462215</b>			<b>CSV35 card</b>		
<b>2462215</b>			<b>CSV35 card</b>		
<b>A-A1X2</b>	<b>2</b>	<b>2462212</b>	<b>CSEIA card</b>		
		<b>2462214</b>	<b>CSDDA card</b>		
		<b>2462213</b>	<b>CSX21 card</b>		
		<b>2462215</b>	<b>CSV35 card</b>		
<b>A-A1B2</b>	<b>1</b>	<b>2462200</b>	<b>Disk A adapter</b>		
<b>16F4</b>	<b>A-A1G2</b>	<b>90</b>	<b>2462203</b>	<b>CSP card</b>	CSP ECC error.  MSIPL, if sign-on screen comes up, use ERAP to obtain a new SRC. Otherwise, use SRC from Re-IPL.
	<b>A-A1F2</b>	<b>5</b>	<b>2462202</b>	<b>Control panel card</b>	

**D6**

<b>SRC</b>	<b>FRU</b>	<b>%</b>	<b>P/N</b>	<b>FRU DESCRIPTION</b>	<b>SERVICE COMMENTS</b>
16F5	A-A1G2	75	2462203	CSP card	Interrupt level 1 occurred from an unknown device. MSIPL, if sign-on screen comes up, use ERAP to obtain a new SRC. Otherwise, use SRC from Re-IPL.
16F6	A-A1G2 A-A1T2  A-A1U2	45 45  10	2462203 2462210 2462211 2462212 2462214 2462213 2462215	CSP card ELCA controller card SLCA pass-thru card CSEIA card CSDDA card CSX21 card CSV35 card	Interrupt level 2 occurred from an unknown device. MSIPL, if sign-on screen comes up, use ERAP to obtain a new SRC. Otherwise, use SRC from Re-IPL.
16F7	A-A1G2 A-A1Q2	45 45	2462203 2462208 2462210	CSP card WS adapter card WS controller card	Interrupt level 3 occurred from an unknown device. MSIPL, if sign-on screen comes up, use ERAP to obtain a new SRC. Otherwise, use SRC from Re-IPL.
16F8	A-A1G2 A-A1C2 A-A1D2 A-A1Q2	20 20 20 20	2462203 2462209 2462201 2462208 2462210	CSP card DSA2 card DSA1 card WS adapter card WS controller card	Interrupt level 4 occurred from an unknown device. MSIPL, if sign-on screen comes up, use ERAP to obtain a new SRC. Otherwise, use SRC from Re-IPL.

D7

SRC	FRU	%	P/N	FRU DESCRIPTION	SERVICE COMMENTS
16FF	A-A1G2	30	2462203	CSP card	Unknown CSP or MSP problem. MSIPL, if sign-on screen comes up, use ERAP to obtain a new SRC. Otherwise, use SRC from Re-IPL. If SRC in ERAP is 16FF, go to Procedure 136 CSP Intermittent Errors.
	A-A1H2	10	2462204	MSP Control card	
	A-A1J2	10	2462205	MSP Data flow card	
	A-A1K2/	10	2462206	MS card 128k	
			2462261	MS card 256k	
	A-A1L2/				
	A-A1M2/				
	A-A1N2				
	A-A1F2	5	2462202	Control panel card	
	A-A1C2	5	2462209	DSA2 card	
	A-A1D2	5	2462201	DSA1 card	
	A-A1Q2	5	2462208	WS adapter card	
			2462210	WS controller card	
	A-A1T2	5	2462210	ELCA controller card	
			2462211	SLCA pass-thru card	
	A-A1U2	1	2462212	CSEIA card	
			2462214	CSDDA card	
			2462213	CSX21 card	
			2462215	CSV35 card	
	A-A1V2	1	2462212	CSEIA card	
			2462214	CSDDA card	
	2462213		CSX21 card		
	2462215		CSV35 card		
A-A1W2	1	2462212	CSEIA card		
		2462214	CSDDA card		
		2462213	CSX21 card		
		2462215	CSV35 card		
A-A1X2	1	2462212	CSEIA card		
		2462214	CSDDA card		
		2462213	CSX21 card		
		2462215	CSV35 card		

D8

SRC	FRU	%	P/N	FRU DESCRIPTION	SERVICE COMMENTS
1800	A-A1T2	50	2462210	ELCA controller card	<p>No failure detected.  For communication line problems, go to MIM 190.  For MLCA 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 MIM 915 (Diagnostic Communication Controller Problems).  If no failure can be detected and no FRU information is obtained from controller ERAP, use the FRUs listed here as an intermittent FRU replacement list.  Note: For communication line ERAPs (SDLC, BSC, etc) the SRC field always contains a dummy number 1800.  Xcable = external cable  Icable = internal cable  (MIM 910)</p>
			2462211	SLCA pass-thru card	
	A-A1U2	5	2462212	CSEIA card	
			2462214	CSDDA card	
			2462213	CSX21 card	
			2462215	CSV35 card	
	A-A1V2	5	2462212	CSEIA card	
			2462214	CSDDA card	
			2462213	CSX21 card	
			2462215	CSV35 card	
	A-A1W2	5	2462212	CSEIA card	
			2462214	CSDDA card	
			2462213	CSX21 card	
			2462215	CSV35 card	
	A-A1X2	5	2462212	CSEIA card	
		2462214	CSDDA card		
		2462213	CSX21 card		
		2462215	CSV35 card		
	Xcable/ Icable	5			

SRC	FRU	%	P/N	FRU DESCRIPTION	SERVICE COMMENTS
1816	A-A1T2	95	2462210	ELCA controller	Controller failure, controller wrap test failure.  (MIM 910)
	A-A1U2	1	2462212	CSEIA card	
			2462214	CSDDA card	
			2462213	CSX21 card	
			2462215	CSV35 card	
	A-A1V2	1	2462212	CSEIA card	
			2462214	CSDDA card	
			2462213	CSX21 card	
			2462215	CSV35 card	
	A-A1W2	1	2462212	CSEIA card	
			2462214	CSDDA card	
			2462213	CSX21 card	
			2462215	CSV35 card	
	A-A1X2	1	2462212	CSEIA card	
		2462214	CSDDA card		
		2462213	CSX21 card		
		2462215	CSV35 card		
1830					BSC Receive Time-out Data Mode. See MIM Sections 30-510 to 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.

D10



<b>SRC</b>	<b>FRU</b>	<b>%</b>	<b>P/N</b>	<b>FRU DESCRIPTION</b>	<b>SERVICE COMMENTS</b>
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 not valid ASCII Character. See MIM Sections 30-510 to 30-517 for more information.
1838					SDLC Adapter Check (Overrun/Underrun). See MIM Sections 30-520 to 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.

<b>SRC</b>	<b>FRU</b>	<b>%</b>	<b>P/N</b>	<b>FRU DESCRIPTION</b>	<b>SERVICE COMMENTS</b>
<b>183b</b>					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.
<b>183C</b>					SDLC Idle Detected (primary station). See MIM Sections 30-520 to 30-527 for more information.
<b>183d</b>					SDLC not valid Frame. See MIM Sections 30-520 to 30-527 for more information.
<b>183E</b>					SDLC Frame Check (data check). See MIM Sections 30-520 to 30-527 for more information.
<b>183F</b>					SLDC Receive Buffer Overrun. See MIM Sections 30-520 to 30-527 for more information.

**D12**

SRC	FRU	%	P/N	FRU DESCRIPTION	SERVICE COMMENTS
1840	A-A1U2	19	2462212	CSEIA card	XPAR test failed on multiple communications adapters. Controller wrap test failure. (MIM 910)
			2462214	CSDDA card	
			2462213	CSX21 card	
			2462215	CSV35 card	
	A-A1V2	19	2462212	CSEIA card	
			2462214	CSDDA card	
			2462213	CSX21 card	
			2462215	CSV35 card	
	A-A1W2	19	2462212	CSEIA card	
			2462214	CSDDA card	
			2462213	CSX21 card	
			2462215	CSV35 card	
	A-A1X2	19	2462212	CSEIA card	
			2462214	CSDDA card	
			2462213	CSX21 card	
			2462215	CSV35 card	
A-A1T2	20	2462210	ELCA controller		
1841	A-A1U2	95	2462212	CSEIA card	XPAR test failed on line 1 communication line adapter. Communications line adapter type is unknown. Controller wrap test fail. (MIM 910)
			2462214	CSDDA card	
			2462213	CSX21 card	
			2462215	CSV35 card	
	A-A1T2	5	2462210	ELCA controller	
1842	A-A1V2	95	2462212	CSEIA card	XPAR test failed on line 2 communication line adapter. Communications line adapter type is unknown. Controller wrap test fail. (MIM 910)
			2462214	CSDDA card	
			2462213	CSX21 card	
			2462215	CSV35 card	
	A-A1T2	5	2462210	ELCA controller	
1843	A-A1W2	95	2462212	CSEIA card	XPAR test failed on line 3 communication line adapter. Communications line adapter type is unknown. Controller wrap test fail. (MIM 910)
			2462214	CSDDA card	
			2462213	CSX21 card	
			2462215	CSV35 card	
	A-A1T2	5	2462210	ELCA controller	

D13

SRC	FRU	%	P/N	FRU DESCRIPTION	SERVICE COMMENTS
1844	A-A1X2  A-A1T2	95  5	2462212 2462214 2462213 2462215 2462210	CSEIA card CSDDA card CSX21 card CSV35 card ELCA controller	XPAR test failed on line 4 communication line adapter. Communications line adapter type is unknown. Controller wrap test fail. (MIM 910)
1849	A-A1U2/ A-A1V2/ A-A1W2/ A-A1X2 A-A1T2	96   1	2462212   2462210 2462211	CSEIA card   ELCA controller card SLCA pass-thru card	EIA/CCITT communication line adapter failure. Basic communication diagnostic test failure. (MIM 910)
184A	A-A1U2/ A-A1V2/ A-A1W2/ A-A1X2 A-A1T2	96   1	2462214   2462210 2462211	CSDDA card   ELCA controller card SLCA pass-thru card	DDSA communication line adapter failure.  (MIM 910)
184b	A-A1U2/ A-A1V2/ A-A1W2/ A-A1X2 A-A1T2	96   1	2462213   2462210 2462211	CSX21 card   ELCA controller card SLCA pass-thru card	X.21 communication line adapter failure. Basic communication diagnostic test failure. (MIM 910)
184C	A-A1U2/ A-A1V2/ A-A1W2/ A-A1X2 A-A1T2	96   1	2462215   2462210	CSV35 card   ELCA controller	V.35 communication line adapter failure. Basic communication diagnostic test failure. (MIM 910)
1858	Xcable	99			EIA/CCITT external cable failure. Cable P/N 2453129 Basic communication diagnostic test failure. (MIM 910)

D14

<b>SRC</b>	<b>FRU</b>	<b>%</b>	<b>P/N</b>	<b>FRU DESCRIPTION</b>	<b>SERVICE COMMENTS</b>
1859	Xcable	99			Autocall external cable failure. Cable P/N 2453129 Basic communication diagnostic test failure. (MIM 910)
185A	Xcable DCE	50 50	-----	Data comm equip	X.21 external cable or DCE failure. Cable P/N 2453143 Basic communication diagnostic test failure. (MIM 910)
185b	Xcable Modem	50 50			V.35 external cable or modem. Cable P/N 2462238 Basic communication diagnostic test failure. (MIM 910)
185C	Xcable	99			DDSA external cable failure. Cable P/N 2453145 Basic communication diagnostic test failure. (MIM 910)
1860	Lmodem Network Rmodem	60 20 6			LPDA local/remote status test (no response from local modem). Lmodem = local modem Rmodem = remote modem (MIM 910) See modem manual.
1868	Network Lmodem Rmodem	55 35 6			LPDA local/remote status test. Local data quality = 8. Lmodem = local modem Rmodem = remote modem Basic communication diagnostic test failure. (MIM 910) See modem manual.

D15

SRC	FRU	%	P/N	FRU DESCRIPTION	SERVICE COMMENTS
1869	Network Lmodem Rmodem	55 35 6			LPDA local/remote status test. Local data quality = 9. Lmodem = local modem Rmodem = remote modem Basic communication diagnostic test failure. (MIM 910) See modem manual.
186A	Network Lmodem Rmodem	55 35 6			LPDA local/remote status test. Local data quality = 10. Lmodem = local modem Rmodem = remote modem Basic communication diagnostic test failure. (MIM 910) See modem manual.
186b	Network Lmodem Rmodem	55 35 6			LPDA local/remote status test. Local data quality = 11. Lmodem = local modem Rmodem = remote modem Basic communication diagnostic test failure. (MIM 910) See modem manual.
186C	Network Lmodem Rmodem	55 35 6			LPDA local/remote status test. Local data quality = 12. Lmodem = local modem Rmodem = remote modem Basic communication diagnostic test failure. (MIM 910) See modem manual.

D16

<b>SRC</b>	<b>FRU</b>	<b>%</b>	<b>P/N</b>	<b>FRU DESCRIPTION</b>	<b>SERVICE COMMENTS</b>
<b>186d</b>	<b>Network Lmodem Rmodem</b>	<b>55 35 6</b>			LPDA local/remote status test. Local data quality = 13. Lmodem = local modem Rmodem = remote modem Basic communication diagnostic test failure. (MIM 910) See modem manual.
<b>186E</b>	<b>Network Lmodem Rmodem</b>	<b>55 35 6</b>			LPDA local/remote status test. Local data quality = 14. Lmodem = local modem Rmodem = remote modem Basic communication diagnostic test failure. (MIM 910) See modem manual.
<b>186F</b>	<b>Network Lmodem Rmodem</b>	<b>55 35 6</b>			LPDA local/remote status test. Local data quality = 15. Lmodem = local modem Rmodem = remote modem Basic communication diagnostic test failure. (MIM 910) See modem manual.
<b>1870</b>	<b>DCE A-A1U2/ A-A1V2/ A-A1W2/ A-A1X2 Xcable Icable</b>	<b>40 30  20 10</b>	<b>----- 2462215</b>	<b>Data comm equip CSV35 card</b>	Adapter error Japan V.35 DCE wrap test 1. Xcable = V.35 external cable P/N 2462238 Icable = internal cable Basic communication diagnostic test failure. (MIM 910)

**D17**

<b>SRC</b>	<b>FRU</b>	<b>%</b>	<b>P/N</b>	<b>FRU DESCRIPTION</b>	<b>SERVICE COMMENTS</b>
1871	Lmodem A-A1U2/ A-A1V2/ A-A1W2/ A-A1X2 Xcable Icable	40 30   20 10	2462215	CSV35 card	Adapter error Japan V.35 DCE wrap test 2. Xcable = V.35 external cable P/N 2462238 Icable = internal cable Lmodem = local modem Basic communication diagnostic test failure. (MIM 910)
1872	DCE A-A1U2/ A-A1V2/ A-A1W2/ A-A1X2 Xcable Icable	40 30   20 10	----- 2462213	Data comm equip CSX21 card	Adapter error during X.21 DCE test or cable tower wrap. Xcable = X.21 external cable P/N 2453143 Icable = internal cable Basic communication diagnostic test failure. (MIM 910)
1873	DCE A-A1U2/ A-A1V2/ A-A1W2/ A-A1X2 Xcable Icable	40 30   20 10	----- 2462212	Data comm equip CSEIA card	EIA/CCITT adapter error Japan cable wrap transmit to receive. Xcable = EIA external cable P/N 2453129 Icable = internal cable Basic communication diagnostic test failure. (MIM 910)
1874	A-A1U2/ A-A1V2/ A-A1W2/ A-A1X2 Xcable Icable	50    35 15	2462212	CSEIA card	EIA/CCITT adapter error Japan cable wrap DTR DSR RTS CTS EIA/CCITT. Xcable = EIA external cable P/N 2453129 Icable = internal cable Basic communication diagnostic test failure. (MIM 910)

D18



<b>SRC</b>	<b>FRU</b>	<b>%</b>	<b>P/N</b>	<b>FRU DESCRIPTION</b>	<b>SERVICE COMMENTS</b>
<b>1875</b>	<b>Lmodem A-A1U2/ A-A1V2/ A-A1W2/ A-A1X2 Xcable Icable</b>	<b>40 30  20 10</b>	<b>2462212</b>	<b>CSEIA card</b>	EIA/CCITT adapter error Japan cable wrap, no receive timing. Lmodem = local modem Xcable = EIA external cable P/N 2453129 Icable = internal cable Basic communication diagnostic test failure. (MIM 910)
<b>1880</b>	<b>Card 1 Card 2 Card 3 Coupler CALA</b>	<b>40 30 20 5 5</b>			LPDA local selftest error (local external modem failure). FRU callouts, see local LPDA modem - no P/N supplied. Card 1 = front end card. Card 2 = receiver card. Card 3 = processor card. Coupler = modem coupler. CALA = Comm Adapter, Line Adapter or Cables. Basic communication diagnostic test failure. (MIM 910) See modem manual.

**E1**

<b>SRC</b>	<b>FRU</b>	<b>%</b>	<b>P/N</b>	<b>FRU DESCRIPTION</b>	<b>SERVICE COMMENTS</b>
<b>1881</b>	<b>Coupler</b> <b>Card 3</b> <b>Card 2</b> <b>Card 1</b>	<b>90</b> <b>2</b> <b>2</b> <b>2</b>			LPDA local selftest error (local external modem failure). FRU callouts, see local LPDA modem - no P/N supplied. Card 1 = front end card. Card 2 = receiver card. Card 3 = processor card. Coupler = modem coupler. Basic communication diagnostic test failure. (MIM 910) See modem manual.
<b>1882</b>	<b>Card 3</b> <b>Card 1</b> <b>Coupler</b> <b>Card 2</b>	<b>91</b> <b>3</b> <b>2</b> <b>2</b>			LPDA local selftest error (local external modem failure). FRU callouts, see local LPDA modem - no P/N supplied. Card 1 = front end card. Card 2 = receiver card. Card 3 = processor card. Coupler = modem coupler. Basic communication diagnostic test failure. (MIM 910) See modem manual.

**E2**

SRC	FRU	%	P/N	FRU DESCRIPTION	SERVICE COMMENTS
1883	Card 3 Coupler Card 2 Card 1	50 40 2 2			LPDA local selftest error (local external modem failure). FRU callouts, see local LPDA modem - no P/N supplied. Card 1 = front end card. Card 2 = receiver card. Card 3 = processor card. Coupler = modem coupler. Basic communication diagnostic test failure. (MIM 910) See modem manual.
1884	Card 2 Card 1 Card 3 Coupler	72 15 10 2			LPDA local selftest error (local external modem failure). FRU callouts, see local LPDA modem - no P/N supplied. Card 1 = front end card. Card 2 = receiver card. Card 3 = processor card. Coupler = modem coupler. Basic communication diagnostic test failure. (MIM 910) See modem manual.

<b>SRC</b>	<b>FRU</b>	<b>%</b>	<b>P/N</b>	<b>FRU DESCRIPTION</b>	<b>SERVICE COMMENTS</b>
<b>1885</b>	<b>Card 2</b> <b>Coupler</b> <b>Card 1</b> <b>Card 3</b>	<b>50</b> <b>40</b> <b>2</b> <b>2</b>			LPDA local selftest error (local external modem failure) FRU callouts, see local LPDA modem - no P/N supplied. Card 1 = front end card. Card 2 = receiver card. Card 3 = processor card. Coupler = modem coupler. Basic communication diagnostic test failure. (MIM 910) See modem manual.
<b>1886</b>	<b>Card 2</b> <b>Card 3</b> <b>Coupler</b> <b>Card 1</b>	<b>50</b> <b>40</b> <b>2</b> <b>2</b>			LPDA local selftest error (local external modem failure). FRU callouts, see local LPDA modem - no P/N supplied. Card 1 = front end card. Card 2 = receiver card. Card 3 = processor card. Coupler = modem coupler. Basic communication diagnostic test failure. (MIM 910) See modem manual.

**E4**

<b>SRC</b>	<b>FRU</b>	<b>%</b>	<b>P/N</b>	<b>FRU DESCRIPTION</b>	<b>SERVICE COMMENTS</b>
<b>1887</b>	<b>Card 2</b> <b>Card 3</b> <b>Coupler</b> <b>Card 1</b>	<b>40</b> <b>27</b> <b>25</b> <b>2</b>			<p>LPDA local selftest error (local external modem failure).</p> <p>FRU callouts, see local LPDA modem - no P/N supplied.</p> <p>Card 1 = front end card. Card 2 = receiver card. Card 3 = processor card. Coupler = modem coupler.</p> <p>Basic communication diagnostic test failure. (MIM 910) See modem manual.</p>
<b>1888</b>	<b>Card 1</b> <b>Coupler</b> <b>Card 2</b> <b>Card 3</b>	<b>73</b> <b>5</b> <b>5</b> <b>2</b>			<p>LPDA local selftest error (local external modem failure).</p> <p>FRU callouts, see local LPDA modem - no P/N supplied.</p> <p>Card 1 = front end card. Card 2 = receiver card. Card 3 = processor card. Coupler = modem coupler.</p> <p>Basic communication diagnostic test failure. (MIM 910) See modem manual.</p>

<b>SRC</b>	<b>FRU</b>	<b>%</b>	<b>P/N</b>	<b>FRU DESCRIPTION</b>	<b>SERVICE COMMENTS</b>
<b>1889</b>	<b>Card 1</b> <b>Coupler</b> <b>Card 2</b> <b>Card 3</b>	<b>50</b> <b>40</b> <b>2</b> <b>2</b>			LPDA local selftest error (local external modem failure). FRU callouts, see local LPDA modem - no P/N supplied. Card 1 = front end card. Card 2 = receiver card. Card 3 = processor card. Coupler = modem coupler. Basic communication diagnostic test failure. (MIM 910) See modem manual.
<b>188A</b>	<b>Card 1</b> <b>Card 3</b> <b>Coupler</b> <b>Card 2</b>	<b>50</b> <b>40</b> <b>2</b> <b>2</b>			LPDA local selftest error (local external modem failure). FRU callouts, see local LPDA modem - no P/N supplied. Card 1 = front end card. Card 2 = receiver card. Card 3 = processor card. Coupler = modem coupler. Basic communication diagnostic test failure. (MIM 910) See modem manual.

**E6**

<b>SRC</b>	<b>FRU</b>	<b>%</b>	<b>P/N</b>	<b>FRU DESCRIPTION</b>	<b>SERVICE COMMENTS</b>
<b>188b</b>	<b>Card 1</b> <b>Card 3</b> <b>Coupler</b> <b>Card 2</b>	<b>40</b> <b>27</b> <b>25</b> <b>2</b>			LPDA local selftest error (local external modem failure). FRU callouts, see local LPDA modem - no P/N supplied. Card 1 = front end card. Card 2 = receiver card. Card 3 = processor card. Coupler = modem coupler. Basic communication diagnostic test failure. (MIM 910) See modem manual.
<b>188C</b>	<b>Card 1</b> <b>Card 2</b> <b>Card 3</b> <b>Coupler</b>	<b>50</b> <b>40</b> <b>2</b> <b>2</b>			LPDA local selftest error (local external modem failure). FRU callouts, see local LPDA modem - no P/N supplied. Card 1 = front end card. Card 2 = receiver card. Card 3 = processor card. Coupler = modem coupler. Basic communication diagnostic test failure. (MIM 910) See modem manual.

<b>SRC</b>	<b>FRU</b>	<b>%</b>	<b>P/N</b>	<b>FRU DESCRIPTION</b>	<b>SERVICE COMMENTS</b>
188d	Card 1 Card 2 Coupler Card 3	40 27 25 2			LPDA local selftest error (local external modem failure). FRU callouts, see local LPDA modem - no P/N supplied. Card 1 = front end card. Card 2 = receiver card. Card 3 = processor card. Coupler = modem coupler. Basic communication diagnostic test failure. (MIM 910) See modem manual.
188E	Card 2 Card 3 Coupler Card 1	40 27 25 2			LPDA local selftest error (local external modem failure). FRU callouts, see local LPDA modem - no P/N supplied. Card 1 = front end card. Card 2 = receiver card. Card 3 = processor card. Coupler = modem coupler. Basic communication diagnostic test failure. (MIM 910) See modem manual.

**E8**



SRC	FRU	%	P/N	FRU DESCRIPTION	SERVICE COMMENTS
188F	Coupler Card 3 Card 2 Card 1	20 20 20 20			LPDA local selftest error (local external modem failure). FRU callouts, see local modem - no P/N supplied. Card 1 = front end card. Card 2 = receiver card. Card 3 = processor card. Coupler = modem coupler. Check that local modem switch is set to LPDA mode. Basic communication diagnostic test failure. (MIM 910) See modem manual.
1890	A-A1U2/ A-A1V2/ A-A1W2/ A-A1X2 Xcable Icable	60    30 10	2462212	CSEIA card	EIA end of cable wrap failure (every FRU).  Xcable = EIA external cable P/N 2453129 Icable = internal cable Basic communication diagnostic test failure. (MIM 910)
1891	A-A1U2/ A-A1V2/ A-A1W2/ A-A1X2 Icable	80    20	2462212	CSEIA card	EIA cable tower wrap failure (CA & ICable) or A.C. cable tower wrap failure (CA & ICable) Icable = internal cable Basic communication diagnostic test failure. (MIM 910)

<b>SRC</b>	<b>FRU</b>	<b>%</b>	<b>P/N</b>	<b>FRU DESCRIPTION</b>	<b>SERVICE COMMENTS</b>
1892	A-A1U2/ A-A1V2/ A-A1W2/ A-A1X2 Xcable Icable	60  30 10	2462214	CSDDA card	DDSA end of cable wrap failure Xcable = DDSA external cable P/N 2453145 Icable = internal cable Basic communication diagnostic test failure. (MIM 910)
1893	A-A1U2/ A-A1V2/ A-A1W2/ A-A1X2 Icable	80  20	2462214	CSDDA card	DDSA cable tower wrap failure (CA & ICable) Icable = internal cable Basic communication diagnostic test failure. (MIM 910)
1894	A-A1U2/ A-A1V2/ A-A1W2/ A-A1X2 Icable	80  20	2462213	CSX21 card	X.21 cable tower wrap failure (CA & ICable) Icable = internal cable Basic communication diagnostic test failure. (MIM 910)
1895	A-A1U2/ A-A1V2/ A-A1W2/ A-A1X2 Icable	80  20	2462215	CSV35 card	V.35 WB cable tower wrap failure (CA & ICable) Icable = internal cable Basic communication diagnostic test failure. (MIM 910)
1896	A-A1U2/ A-A1V2/ A-A1W2/ A-A1X2 Xcable Icable	60  30 10	2462212	CSEIA card	Autocall end of cable wrap failure (every FRU). Xcable = A. C. external cable P/N 2453129 Icable = internal cable Basic communication diagnostic test failure. (MIM 910)

E10

<b>SRC</b>	<b>FRU</b>	<b>%</b>	<b>P/N</b>	<b>FRU DESCRIPTION</b>	<b>SERVICE COMMENTS</b>
<b>18A0</b>	<b>Lmodem Network</b>	<b>90 10</b>			LPDA local status test error (no response from local modem). Lmodem = local modem. Basic communication diagnostic test failure. (MIM 910) See modem manual.
<b>18A8</b>	<b>Network Lmodem Rmodem</b>	<b>65 16 16</b>			LPDA local status test error (data quality = 8) Lmodem = local modem. Rmodem = remote modem. Basic communication diagnostic test failure. (MIM 910) See modem manual.
<b>18A9</b>	<b>Network Lmodem Rmodem</b>	<b>65 16 16</b>			LPDA local status test error (data quality = 9) Lmodem = local modem. Rmodem = remote modem. Basic communication diagnostic test failure. (MIM 910) See modem manual.
<b>18AA</b>	<b>Network Lmodem Rmodem</b>	<b>65 16 16</b>			LPDA local status test error (data quality = 10) Lmodem = local modem. Rmodem = remote modem. Basic communication diagnostic test failure. (MIM 910) See modem manual.

<b>SRC</b>	<b>FRU</b>	<b>%</b>	<b>P/N</b>	<b>FRU DESCRIPTION</b>	<b>SERVICE COMMENTS</b>
<b>18Ab</b>	<b>Network Lmodem Rmodem</b>	<b>65 16 16</b>			LPDA local status test error (data quality = 11) Lmodem = local modem. Rmodem = remote modem. Basic communication diagnostic test failure. (MIM 910) See modem manual.
<b>18AC</b>	<b>Network Lmodem Rmodem</b>	<b>65 16 16</b>			LPDA local status test error (data quality = 12) Lmodem = local modem. Rmodem = remote modem. Basic communication diagnostic test failure. (MIM 910) See modem manual.
<b>18Ad</b>	<b>Network Lmodem Rmodem</b>	<b>65 16 16</b>			LPDA local status test error (data quality = 13) Lmodem = local modem. Rmodem = remote modem. Basic communication diagnostic test failure. (MIM 910) See modem manual.
<b>18AE</b>	<b>Network Lmodem Rmodem</b>	<b>65 16 16</b>			LPDA local status test error (data quality = 14) Lmodem = local modem. Rmodem = remote modem. Basic communication diagnostic test failure. (MIM 910) See modem manual.

**E12**

SRC	FRU	%	P/N	FRU DESCRIPTION	SERVICE COMMENTS
18AF	Network Lmodem Rmodem	65 16 16			LPDA local status test error (data quality = 15) Lmodem = local modem. Rmodem = remote modem. Basic communication diagnostic test failure. (MIM 910) See modem manual.
18b0					Line allocation failed (return code not recognized) or test selection is not valid. Program error.
18b7					Remote loopback test failure. Suspected external operator problem from problem determination test. (MIM 910)
18b8	Xmodem A-A1U2/ A-A1V2/ A-A1W2/ A-A1X2 Xcable lcable	80 12  6 2	2462212	CSEIA card	No DSR from external modem Xmodem = external modem Xcable = EIA external cable P/N 2453129 lcable = internal cable  (MIM 910)
18b9	Xmodem A-A1U2/ A-A1V2/ A-A1W2/ A-A1X2 Xcable lcable	80 12  6 2	2462212	CSEIA card	No CTS from external modem Xmodem = external modem Xcable = EIA external cable P/N 2453129 lcable = internal cable  (MIM 910)

<b>SRC</b>	<b>FRU</b>	<b>%</b>	<b>P/N</b>	<b>FRU DESCRIPTION</b>	<b>SERVICE COMMENTS</b>
<b>18bA</b>	<b>Xmodem A-A1U2/ A-A1V2/ A-A1W2/ A-A1X2 Xcable Icable</b>	<b>80 12  6 2</b>	<b>2462212</b>	<b>CSEIA card</b>	No external receive clock from external modem. Xcable = EIA external cable P/N 2453129 Icable = internal cable Xmodem = external modem (MIM 910)
<b>18bb</b>	<b>Xmodem A-A1U2/ A-A1V2/ A-A1W2/ A-A1X2 Xcable Icable</b>	<b>80 12  6 2</b>	<b>2462212</b>	<b>CSEIA card</b>	External modem failure. Xmodem = external modem Xcable = EIA external cable P/N 2453129 Icable = internal cable  (MIM 910)
<b>18bE</b>	<b>Xmodem</b>	<b>99</b>			External modem failure. (Modem is only FRU) If this is Japan and an EIA/CCITT interface, suspect missing clocking from the modem. (MIM 910)
<b>18bF</b>					Modem is wrong type for selected test or test selection is not valid. (Program error) (MIM 910)
<b>18C0</b>	<b>Network Rmodem Lmodem</b>	<b>50 45 5</b>			LPDA remote selftest error (no response from remote modem). Lmodem = Local modem Rmodem = remote modem (MIM 910) See modem manual.

## E14

<b>SRC</b>	<b>FRU</b>	<b>%</b>	<b>P/N</b>	<b>FRU DESCRIPTION</b>	<b>SERVICE COMMENTS</b>
<b>18C1</b>	<b>Coupler</b> <b>Card 3</b> <b>Card 2</b> <b>Card 1</b>	<b>90</b> <b>2</b> <b>2</b> <b>2</b>			LPDA remote selftest error (remote LPDA modem failure). FRU callouts, see remote LPDA modem - no P/ supplied. Card 1 = front end card. Card 2 = receiver card. Card 3 = processor card. Coupler = modem coupler. (MIM 910) See modem manual.
<b>18C2</b>	<b>Card 3</b> <b>Card 1</b> <b>Coupler</b> <b>Card 2</b>	<b>91</b> <b>3</b> <b>2</b> <b>2</b>			LPDA remote selftest error (remote LPDA modem failure). FRU callouts, see remote LPDA modem - no P/ supplied. Card 1 = front end card. Card 2 = receiver card. Card 3 = processor card. Coupler = modem coupler. (MIM 910) See modem manual.
<b>18C3</b>	<b>Card 3</b> <b>Coupler</b> <b>Card 1</b> <b>Card 2</b>	<b>50</b> <b>40</b> <b>2</b> <b>2</b>			LPDA remote selftest error (remote LPDA modem failure). FRU callouts, see remote LPDA modem - no P/ supplied. Card 1 = front end card. Card 2 = receiver card. Card 3 = processor card. Coupler = modem coupler. (MIM 910) See modem manual.

<b>SRC</b>	<b>FRU</b>	<b>%</b>	<b>P/N</b>	<b>FRU DESCRIPTION</b>	<b>SERVICE COMMENTS</b>
<b>18C4</b>	<b>Card 2</b> <b>Card 1</b> <b>Card 3</b> <b>Coupler</b>	<b>72</b> <b>15</b> <b>10</b> <b>2</b>			LPDA remote selftest error (remote LPDA modem failure). FRU callouts, see remote LPDA modem - no P/ supplied. Card 1 = front end card. Card 2 = receiver card. Card 3 = processor card. Coupler = modem coupler. (MIM 910) See modem manual.
<b>18C5</b>	<b>Card 2</b> <b>Coupler</b> <b>Card 1</b> <b>Card 3</b>	<b>50</b> <b>40</b> <b>2</b> <b>2</b>			LPDA remote selftest error (remote LPDA modem failure). FRU callouts, see remote LPDA modem - no P/ supplied. Card 1 = front end card. Card 2 = receiver card. Card 3 = processor card. Coupler = modem coupler. (MIM 910) See modem manual.
<b>18C6</b>	<b>Card 2</b> <b>Card 3</b> <b>Coupler</b> <b>Card 1</b>	<b>50</b> <b>40</b> <b>2</b> <b>2</b>			LPDA remote selftest error (remote LPDA modem failure). FRU callouts, see remote LPDA modem - no P/ supplied. Card 1 = front end card. Card 2 = receiver card. Card 3 = processor card. Coupler = modem coupler. (MIM 910) See modem manual.

**E16**



<b>SRC</b>	<b>FRU</b>	<b>%</b>	<b>P/N</b>	<b>FRU DESCRIPTION</b>	<b>SERVICE COMMENTS</b>
<b>18C7</b>	<b>Card 2</b> <b>Card 3</b> <b>Coupler</b> <b>Card 1</b>	<b>40</b> <b>27</b> <b>25</b> <b>2</b>			LPDA remote selftest error (remote LPDA modem failure). FRU callouts, see remote LPDA modem - no P/ supplied. Card 1 = front end card. Card 2 = receiver card. Card 3 = processor card. Coupler = modem coupler. (MIM 910) See modem manual.
<b>18C8</b>	<b>Card 1</b> <b>Coupler</b> <b>Card 3</b> <b>Card 2</b>	<b>73</b> <b>5</b> <b>2</b> <b>2</b>			LPDA remote selftest error (remote LPDA modem failure). FRU callouts, see remote LPDA modem - no P/ supplied. Card 1 = front end card. Card 2 = receiver card. Card 3 = processor card. Coupler = modem coupler. (MIM 910) See modem manual.
<b>18C9</b>	<b>Card 1</b> <b>Coupler</b> <b>Card 3</b> <b>Card 2</b>	<b>50</b> <b>40</b> <b>2</b> <b>2</b>			LPDA remote selftest error (remote LPDA modem failure). FRU callouts, see remote LPDA modem - no P/ supplied. Card 1 = front end card. Card 2 = receiver card. Card 3 = processor card. Coupler = modem coupler. (MIM 910) See modem manual.

<b>SRC</b>	<b>FRU</b>	<b>%</b>	<b>P/N</b>	<b>FRU DESCRIPTION</b>	<b>SERVICE COMMENTS</b>
<b>18CA</b>	<b>Card 1</b> <b>Card 3</b> <b>Coupler</b> <b>Card 2</b>	<b>50</b> <b>40</b> <b>2</b> <b>2</b>			LPDA remote selftest error (remote LPDA modem failure). FRU callouts, see remote LPDA modem - no P/ supplied. Card 1 = front end card. Card 2 = receiver card. Card 3 = processor card. Coupler = modem coupler. (MIM 910) See modem manual.
<b>18Cb</b>	<b>Card 1</b> <b>Card 3</b> <b>Coupler</b> <b>Card 2</b>	<b>40</b> <b>27</b> <b>25</b> <b>2</b>			LPDA remote selftest error (remote LPDA modem failure). FRU callouts, see remote LPDA modem - no P/ supplied. Card 1 = front end card. Card 2 = receiver card. Card 3 = processor card. Coupler = modem coupler. (MIM 910) See modem manual.
<b>18CC</b>	<b>Card 1</b> <b>Card 2</b> <b>Card 3</b> <b>Coupler</b>	<b>50</b> <b>40</b> <b>2</b> <b>2</b>			LPDA remote selftest error (remote LPDA modem failure). FRU callouts, see remote LPDA modem - no P/ supplied. Card 1 = front end card. Card 2 = receiver card. Card 3 = processor card. Coupler = modem coupler. (MIM 910) See modem manual.

## E18

SRC	FRU	%	P/N	FRU DESCRIPTION	SERVICE COMMENTS
18Cd	Card 1 Card 2 Coupler Card 3	40 27 25 2			LPDA remote selftest error (remote LPDA modem failure). FRU callouts, see remote LPDA modem - no P/ supplied. Card 1 = front end card. Card 2 = receiver card. Card 3 = processor card. Coupler = modem coupler. (MIM 910) See modem manual.
18CE	Card 2 Card 3 Coupler Card 1	40 27 25 2			LPDA remote selftest error (remote LPDA modem failure). FRU callouts, see remote LPDA modem - no P/ supplied. Card 1 = front end card. Card 2 = receiver card. Card 3 = processor card. Coupler = modem coupler. (MIM 910) See modem manual.
18CF	Coupler Card 3 Card 2 Card 1	20 20 20 20			LPDA remote selftest error (remote LPDA modem failure). FRU callouts, see remote LPDA modem - no P/ supplied. Card 1 = front end card. Card 2 = receiver card. Card 3 = processor card. Coupler = modem coupler. (MIM 910) See modem manual.

<b>SRC</b>	<b>FRU</b>	<b>%</b>	<b>P/N</b>	<b>FRU DESCRIPTION</b>	<b>SERVICE COMMENTS</b>
<b>18d8</b>					AUTOCALL Data Line Occupied (DLO) error. See MIM Sections 30-540 to 30-547 for more information.
<b>18d9</b>					AUTOCALL Abandon Call Retry (ACR) error. See MIM Sections 30-540 to 30-547 for more information.
<b>18dA</b>					AUTOCALL Present Next Digit (PND) error. See MIM Sections 30-540 to 30-547 for more information.
<b>18db</b>					AUTOCALL Distant Station Connected (DSC) error. See MIM Sections 30-540 to 30-547 for more information.
<b>18dC</b>					AUTOCALL Power Indicate (PWI) error. See MIM Sections 30-540 to 30-547 for more information.
<b>18dd</b>					AUTOCALL unit has received a command that was not valid. See MIM Sections 30-540 to 30-547 for more information.
<b>18dE</b>					AUTOCALL unit has received a telephone number with a length of zero. See MIM Sections 30-540 to 30-547 for more information.

**A2**

<b>SRC</b>	<b>FRU</b>	<b>%</b>	<b>P/N</b>	<b>FRU DESCRIPTION</b>	<b>SERVICE COMMENTS</b>
<b>18dF</b>					AUTOCALL Data Terminal Ready (DTR) is off for the communications line. See MIM Sections 30-540 to 30-547 for more information.
<b>18E0</b>	<b>Network Rmodem Lmodem</b>	<b>45 45 6</b>			LPDA local/remote status test (no response from remote modem). Rmodem = remote modem Lmodem = local modem (MIM 910) See modem manual.
<b>18E8</b>	<b>Network Rmodem Lmodem</b>	<b>65 16 16</b>			LPDA local/remote test (remote data quality = 8) Rmodem = remote modem Lmodem = local modem (MIM 910) See modem manual.
<b>18E9</b>	<b>Network Rmodem Lmodem</b>	<b>75 11 11</b>			LPDA local/remote test (remote data quality = 9) Rmodem = remote modem Lmodem = local modem (MIM 910) See modem manual.
<b>18EA</b>	<b>Network Rmodem Lmodem</b>	<b>85 6 6</b>			LPDA local/remote test (remote data quality = 10) Rmodem = remote modem Lmodem = local modem (MIM 910) See modem manual.
<b>18Eb</b>	<b>Network Rmodem Lmodem</b>	<b>85 6 6</b>			LPDA local/remote test (remote data quality = 11) Rmodem = remote modem Lmodem = local modem (MIM 910) See modem manual.

SRC	FRU	%	P/N	FRU DESCRIPTION	SERVICE COMMENTS
18EC	Network Rmodem Lmodem	85 6 6			LPDA local/remote test (remote data quality = 12) Rmodem = remote modem Lmodem = local modem (MIM 910) See modem manual.
18Ed	Network Rmodem Lmodem	85 6 6			LPDA local/remote test (remote data quality = 13) Rmodem = remote modem Lmodem = local modem (MIM 910) See modem manual.
18EE	Network Rmodem Lmodem	85 6 6			LPDA local/remote test remote data quality = 14) Rmodem = remote modem Lmodem = local modem (MIM 910) See modem manual.
18EF	Network Rmodem Lmodem	85 6 6			LPDA local/remote test (remote data quality = 15) Rmodem = remote modem Lmodem = local modem (MIM 910) See modem manual.
18F1					LPDA remote test. Remote modem test can not be run Modem is not configured as a control modem. Configuration error or wrong test selection. (MIM 910)
18F2					X.21 Adapter Check (Overrun) occurred while attempting to make a call. See MIM Sections 30-550 to 30-555 for more information.

A4

SRC	FRU	%	P/N	FRU DESCRIPTION	SERVICE COMMENTS
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.

<b>SRC</b>	<b>FRU</b>	<b>%</b>	<b>P/N</b>	<b>FRU DESCRIPTION</b>	<b>SERVICE COMMENTS</b>
<b>18F8</b>					X.21 T3B Time-out. The DCE did not respond after responding with a 01, 02, or 03 call progress signal. See MIM Sections 30-550 to 30-555 for more information.
<b>18F9</b>					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.
<b>18FA</b>					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.
<b>18Fb</b>					X.25 Normal completion. See MIM Sections 30-560 to 30-567 for more information.
<b>18FC</b>					X.25 Error completion. See MIM Sections 30-560 to 30-567 for more information.
<b>18Fd</b>					X.25 Attention completion. See MIM Sections 30-560 to 30-567 for more information.
<b>18FE</b>					Unknown recoverable communications error. See MIM Section 30-500 for more information.

**A6**



<b>SRC</b>	<b>FRU</b>	<b>%</b>	<b>P/N</b>	<b>FRU DESCRIPTION</b>	<b>SERVICE COMMENTS</b>
1901	A-A1C2/ A-A1D2	90	2462209 2462201	DSA2 card DSA1 card	Run disk problem determination procedures before replacing any FRUs. Replace FRUs only if disk problem determination procedure does not isolate failure. If the A-A1C2 FRU is not installed, replace the A-A1D2 FRU instead. (MIM 105, 802)
1902	A-A1B2 A-A1C2/ A-A1D2	60 30	2462200 2462209 2462201	Disk A adapter DSA2 card DSA1 card	Run disk problem determination procedures before replacing any FRUs. Replace FRUs only if disk problem determination procedure does not isolate failure. If the A-A1C2 FRU is not installed, replace the A-A1D2 FRU instead. "- Data Protect" line may be the problem. See SRC 2302. (MIM 105, 802)
1903	A-A1A2 A-A1C2/ A-A1D2	60 30	2462200 2462209 2462201	Disk B adapter DSA2 card DSA1 card	Run disk problem determination procedures before replacing any FRUs. Replace FRUs only if disk problem determination procedure does not isolate failure. If the A-A1C2 FRU is not installed, replace the A-A1D2 FRU instead. (MIM 105, 802)

**A7**

<b>SRC</b>	<b>FRU</b>	<b>%</b>	<b>P/N</b>	<b>FRU DESCRIPTION</b>	<b>SERVICE COMMENTS</b>
1906	A-A1A2 G-XXXX	60 30	2462200	Disk B adapter	Run disk problem determination procedures before replacing any FRUs. Replace FRUs only if disk problem determination procedure does not isolate failure. (MIM 105, 802)
190A	A-A1B2 F-XXXX	60 30	2462200	Disk A adapter	Run disk problem determination procedures before replacing any FRUs. Run Pack Analysis and follow the recommended action (MIM 338). Reload SSP or ', Customize (MIM 324). Replace FRUs only if disk problem determination procedure does not isolate failure. (MIM 105, 802)
190b	A-A1A2 G-XXXX	60 30	2462200	Disk B adapter	Run disk problem determination procedures before replacing any FRUs. Replace FRUs only if disk problem determination procedure does not isolate failure. (MIM 105, 802)
190d	A-A1A2 G-XXXX	60 30	2462200	Disk B adapter	Run disk problem determination procedures before replacing any FRUs. Replace FRUs only if disk problem determination procedure does not isolate failure. (MIM 105, 802)

A8

SRC	FRU	%	P/N	FRU DESCRIPTION	SERVICE COMMENTS
190E					Permanent ECC check sector reassigned to new sector. Customer may need to run "BUILD" procedure. (MIM 105, 802)
1920	Drive A A-A1B2 F-A1A2  Drive B A-A1A2 G-A1A2	50 40  50 40	2462200 1616312 1616312  2462200 1616312	Disk A adapter 30MB Digital card 60MB Digital card  Disk B adapter 60MB Digital card	Disk Interface Parity Check.  (MIM 105)
1921	Drive A F-B1A3  F-A1A2  F-C1A1 F-DE  Drive B G-B1A3 G-A1A2 G-C1A1 G-DE	40  30  10 10  40 30 10 10	4044272 1616324 1616312 1616312 1616814 1616699 1616119  1616324 1616312 1616814 1616119	30MB Analog card 60MB Analog card 30MB Digital card 60MB Digital card Drive card A2 (30MB HDA) A3 (60MB HDA)  60MB Analog card 60MB Digital card Drive card A3 (60MB HDA)	Card Unsafe Check.  (MIM 105)





SRC	FRU	%	P/N	FRU DESCRIPTION	SERVICE COMMENTS		
1927	Drive A F-B1A3	40	4044272 1616324	30MB Analog card 60MB Analog card	Servo Unsafe Check.           (MIM 105)		
	F-A1A2	30	1616312 1616312	30MB Digital card 60MB Digital card			
	F-C1A1	15	1616814	Drive card			
	F-DE	5	1616699 1616119	A2 (30MB HDA) A3 (60MB HDA)			
	Drive B G-B1A3	40	1616324	60MB Analog card			
	G-A1A2	30	1616312	60MB Digital card			
	G-C1A1	15	1616814	Drive card			
	G-DE	5	1616119	A3 (60MB HDA)			
	1928	Drive A F-A1A2	40	1616312 1616312		30MB Digital card 60MB Digital card	Motor/Proc Unsafe Check.       (MIM 105)
		F-C1A1	30	1616814		Drive card	
F-DE		25	1616699 1616119	A2 (30MB HDA) A3 (60MB HDA)			
Drive B G-A1A2		40	1616312	60MB Digital card			
G-C1A1		30	1616814	Drive card			
G-DE		25	1616119	A3 (60MB HDA)			
1929	Drive A A-A1C2/ A-A1D2	50	2462209 2462201	DSA2 card DSA1 card	Interrupt Timeout Check. If the A-A1C2 FRU is not installed, replace the A-A1D2 FRU instead.   (MIM 105)		
	A-A1B2	40	2462200	Disk A adapter			
	Drive B A-A1C2	50	2462209	DSA2 card			
	A-A1A2	40	2462200	Disk B adapter			
192A	A-A1C2/ A-A1D2	90	2462209 2462201	DSA2 card DSA1 card	Cycle Steal Address Check  If the A-A1C2 FRU is not installed, replace the A-A1D2 FRU instead. (MIM 105)		

## A12

SRC	FRU	%	P/N	FRU DESCRIPTION	SERVICE COMMENTS
192b	Drive A				Command Parity Check.  If the A-A1C2 FRU is not installed, replace the A-A1D2 FRU instead.  (MIM 105)
	A-A1C2/	50	2462209	DSA2 card	
	A-A1D2		2462201	DSA1 card	
	A-A1B2	40	2462200	Disk A adapter	
192C	Drive B				Cycle Steal Parity Check.  If the A-A1C2 FRU is not installed, replace the A-A1D2 FRU instead. (MIM 105)
	A-A1C2/	90	2462209	DSA2 card	
	A-A1D2		2462201	DSA1 card	
192d	Drive B				DSA Buffer Write Check.  If the A-A1C2 FRU is not installed, replace the A-A1D2 FRU instead. (MIM 105)
	A-A1C2/	90	2462209	DSA2 card	
	A-A1D2		2462201	DSA1 card	
192E	Drive A				Interface Timeout Check.  If the A-A1C2 FRU is not installed, replace the A-A1D2 FRU instead.  (MIM 105)
	A-A1B2	50	2462200	Disk A adapter	
	A-A1C2/	40	2462209	DSA2 card	
	A-A1D2		2462201	DSA1 card	
	Drive B				
	A-A1A2	50	2462200	Disk B adapter	
192F	Drive B				DSA Data Bus Parity Check  If the A-A1C2 FRU is not installed, replace the A-A1D2 FRU instead.  (MIM 105)
	A-A1C2/	50	2462209	DSA2 card	
	A-A1D2		2462201	DSA1 card	
	A-A1B2	40	2462200	Disk A adapter	
	Drive B				
	A-A1C2	50	2462209	DSA2 card	
A-A1A2	40	2462200	Disk B adapter		

SRC	FRU	%	P/N	FRU DESCRIPTION	SERVICE COMMENTS
1930	Drive A				Data Overrun Check.
	A-A1B2	40	2462200	Disk A adapter	
	F-A1A2	30	1616312	30MB Digital card	If the A-A1C2 FRU is not installed, replace the A-A1D2 FRU instead.
			1616312	60MB Digital card	
	A-A1C2/	20	2462209	DSA2 card	
	A-A1D2		2462201	DSA1 card	
	Drive B				(MIM 105)
	A-A1A2	40	2462200	Disk B adapter	
G-A1A2	30	1616312	60MB Digital card		
A-A1C2	20	2462209	DSA2 card		
1931	Drive A				CRC/ECC Check.
	A-A1B2	50	2462200	Disk A adapter	
	F-B1A3	30	4044272	30MB Analog card	Have customer run "BUILD" procedure first
			1616324	60MB Analog card	If problem persists, replace FRU.
	F-C1A1	10	1616814	Drive card	
	F-DE	1	1616699	A2 (30MB HDA)	Run Pack Analysis (MIM 338).
			1616119	A3 (60MB HDA)	(MIM 105)
	Drive B				
	A-A1A2	50	2462200	Disk B adapter	
	G-B1A3	30	1616324	60MB Analog card	
	G-C1A1	10	1616814	Drive card	
	G-DE	1	1616119	A3 (60MB HDA)	
1932	Drive A				No Record Found Check.
	A-A1B2	50	2462200	Disk A adapter	
	F-B1A3	30	4044272	30MB Analog card	Have customer run "BUILD" procedure first
			1616324	60MB Analog card	If problem persists, replace FRU.
	F-C1A1	10	1616814	Drive card	
	F-DE	1	1616699	A2 (30MB HDA)	Run Pack Analysis (MIM 338).
			1616119	A3 (60MB HDA)	(MIM 105)
	Drive B				
	A-A1A2	50	2462200	Disk B adapter	
	G-B1A3	30	1616324	60MB Analog card	
	G-C1A1	10	1616814	Drive card	
	G-DE	1	1616119	A3 (60MB HDA)	

A14



SRC	FRU	%	P/N	FRU DESCRIPTION	SERVICE COMMENTS
1933	Drive A				Command Cycle Parity Check. If the A-A1C2 FRU is not installed, replace the A-A1D2 FRU instead.  (MIM 105)
	A-A1B2	50	2462200	Disk A adapter	
	A-A1C2/ A-A1D2	40	2462209 2462201	DSA2 card DSA1 card	
	Drive B				
	A-A1A2	50	2462200	Disk B adapter	
	A-A1C2	40	2462209	DSA2 card	
1934	Drive A				Cable Continuity Check. Ensure that cable F-B1A2 or G-B1A2 is plugged in properly.  (MIM 105)
	A-A1B2	40	2462200	Disk A adapter	
	F-A1A2	30	1616312 1616312	30MB Digital card 60MB Digital card	
	F-B1A2	20	2453100	Signal cable	
	Drive B				
	A-A1A2	40	2462200	Disk B adapter	
	G-A1A2	30	1616312	60MB Digital card	
	G-B1A2	20	2453100	Signal cable	
1935	Drive A				Data Cycle Parity Check. If the A-A1C2 FRU is not installed, replace the A-A1D2 FRU instead.  (MIM 105)
	A-A1C2/ A-A1D2	50	2462209 2462201	DSA2 card DSA1 card	
	A-A1B2	40	2462200	Disk A adapter	
	Drive B				
	A-A1C2	50	2462209	DSA2 card	
	A-A1A2	40	2462200	Disk B adapter	
1936	Drive A				Sync Not Found Check. Have customer run "BUILD" procedure first If problem persists, replace FRU. Run Pack Analysis. (MIM 105, 338).
	A-A1B2	40	2462200	Disk A adapter	
	Drive B				
	A-A1A2	40	2462200	Disk B adapter	

SRC	FRU	%	P/N	FRU DESCRIPTION	SERVICE COMMENTS
1937	Drive A				Disk Write Data Check.  (MIM 105)
	A-A1B2	40	2462200	Disk A adapter	
	F-A1A2	30	1616312	30MB Digital card	
			1616312	60MB Digital card	
	F-B1A3	20	4044272	30MB Analog card	
			1616324	60MB Analog card	
	Drive B				
	A-A1A2	40	2462200	Disk B adapter	
G-A1A2	30	1616312	60MB Digital card		
G-B1A3	20	1616324	60MB Analog card		
1938	Drive A				Command Reject Check.  If the A-A1C2 FRU is not installed, replace the A-A1D2 FRU instead.  (MIM 105)
	A-A1B2	50	2462200	Disk A adapter	
	A-A1C2/	40	2462209	DSA2 card	
	A-A1D2		2462201	DSA1 card	
	Drive B				
	A-A1A2	50	2462200	Disk B adapter	
A-A1C2	40	2462209	DSA2 card		
1939	Drive A				Data Cycle Underrun Check  (MIM 105)
	F-A1A2	50	1616312	30MB Digital card	
			1616312	60MB Digital card	
	F-B1A3	40	4044272	30MB Analog card	
			1616324	60MB Analog card	
	Drive B				
G-A1A2	50	1616312	60MB Digital card		
G-B1A3	40	1616324	60MB Analog card		
193A	Drive A				Ensure that cable F-B1A2 or G-B1A2 is plugged in properly.  (MIM 105)
	A-A1B2	50	2462200	Disk A adapter	
	F-A1A2	40	1616312	30MB Digital card	
			1616312	60MB Digital card	
	Drive B				
	A-A1A2	50	2462200	Disk B adapter	
G-A1A2	40	1616312	60MB Digital card		
1940	A-A1B2	60	2462200	Disk A adapter	(MIM 150, 802)

## A16

SRC	FRU	%	P/N	FRU DESCRIPTION	SERVICE COMMENTS
1941	A-A1B2 A-A1C2/ A-A1D2	45 45	2462200 2462209 2462201	Disk A adapter DSA2 card DSA1 card	The A-A1C2 card will be present in a two drive system. Suspect the A-A1D2 card only if the system has one drive. (MIM 150, 802)
1942	A-A1B2 F-A1A2  A-A1YJ F-B1A2	45 45  5 5	2462200 1616312 1616312 2453100 2453100	Disk A adapter 30MB Digital card 60MB Digital card Signal cable Signal cable	On Drive A (top drive). This will result when the signal cable (A-A1YJ - F-B1A2) is poorly connected. Reseat the cable and run the disk problem determination procedures. (MIM 150, 802)
1943	F-A1A2  F-B1A3	60  30	1616312 1616312 4044272 1616324	30MB Digital card 60MB Digital card 30MB Analog card 60MB Analog card	On Drive A (top drive). (MIM 150, 802)
1944	F-A1A2  F-B1A3  F-C1A1	50  20  20	1616312 1616312 4044272 1616324 1616814	30MB Digital card 60MB Digital card 30MB Analog card 60MB Analog card Drive card	On Drive A (top drive). This will result when the power/driver cable (F-B1A5) is poorly connected. Reseat the cable and run the disk problem determination procedures. (MIM 150, 802)
1945	F-A1A2  F-B1A3  F-C1A1 F-DE	50  20  20 10	1616312 1616312 4044272 1616324 1616814 1616699 1616119	30MB Digital card 60MB Digital card 30MB Analog card 60MB Analog card Drive card A2 (30MB HDA) A3 (60MB HDA)	On Drive A (top drive). This will result when the power/driver cable (F-B1A5) is poorly connected. Reseat the cable and run the disk problem determination procedures. (MIM 150, 802)

SRC	FRU	%	P/N	FRU DESCRIPTION	SERVICE COMMENTS
1946	G-B1A3 G-DE	40 40	1616324 1616119	60MB Analog card A3 (60MB HDA)	On Drive A (top drive). (MIM 150, 802)
1947	F-A1A2  F-C1A1	40  40	1616312 1616312 1616814	30MB Digital card 60MB Digital card Drive card	On Drive A (top drive). This will result when the power/driver cable (F-B1A5) is poorly connected. Reseat the cable and run the disk problem determination procedures. (MIM 150, 802)
1948	F-A1A2  F-C1A1 F-DE	35  35 10	1616312 1616312 1616814 1616699 1616119	30MB Digital card 60MB Digital card Drive card A2 (30MB HDA) A3 (60MB HDA)	On Drive A (top drive). This will result when the power/driver cable (F-B1A5) is poorly connected. Reseat the cable and run the disk problem determination procedures. (MIM 150, 802)
1949	F-B1A3  F-A1A2  F-DE	40  20 20	4044272 1616324 1616312 1616312 1616699 1616119	30MB Analog card 60MB Analog card 30MB Digital card 60MB Digital card A2 (30MB HDA) A3 (60MB HDA)	On Drive A (top drive).  (MIM 150, 802)
194A	A-A1B2 F-A1A2  F-B1A3  A-A1YJ F-B1A2	30 30  30  5 5	2462200 1616312 1616312 4044272 1616324 2453100 2453100	Disk A adapter 30MB Digital card 60MB Digital card 30MB Analog card 60MB Analog card Signal cable Signal cable	On Drive A (top drive). This will result when the signal cable (A-A1YJ - F-B1A2) is poorly connected. Reseat the cable and run the disk problem determination procedures. (MIM 150, 802)

## A18

SRC	FRU	%	P/N	FRU DESCRIPTION	SERVICE COMMENTS
194C	F-C1A1	60	1616814	Drive card	On Drive A (top drive). Fuse has blown. Replace FRUs in the order listed. Where two FRUs are listed both must be replaced or the failing FRU will destroy the C1A1 card. (MIM 150, 802)
	F-A1A2	20	1616312	30MB Digital card	
			1616312	60MB Digital card	
	and F-C1A1		1616814	Drive card	
	F-DE	1	1616814	Drive card	
			1616699	A2 (30MB HDA)	
			1616119	A3 (60MB HDA)	
194E	F-DE	50	1616699	A2 (30MB HDA)	Possible media error. Run Pack Analysis. (MIM 150, 802, 338).
			1616119	A3 (60MB HDA)	
194F	A-A1A2	60	2462200	Disk B adapter	No failure found for Drive A. If you have previous SRCs, use those to identify the failing FRU. If disk problems are still suspected on drive A, run Pack Analysis (MIM 338). If this a two disk drive system, replace the FRUs in the order listed. (MIM 150, 802)
	A-A1C2	40	2462209	DSA2 card	
1950	G-A1A2	60	1616312	60MB Digital card	(MIM 150, 802)
1951	A-A1A2	45	2462200	Disk B adapter	(MIM 150, 802)
	A-A1C2	45	2462209	DSA2 card	
1952	A-A1A2	45	2462200	Disk B adapter	On Drive B (bottom drive) This will result when the signal cable (A-A1ZA - G-B1A2) is poorly connected. Reseat the cable and run the disk problem determination procedures. (MIM 150, 802)
	G-A1A2	45	1616312	60MB Digital card	

B1

<b>SRC</b>	<b>FRU</b>	<b>%</b>	<b>P/N</b>	<b>FRU DESCRIPTION</b>	<b>SERVICE COMMENTS</b>
<b>1953</b>	<b>Analog</b> <b>Digital</b> <b>HDA</b>	<b>40</b> <b>30</b> <b>20</b>			On Drive B (bottom drive) (MIM 150, 802)
<b>1954</b>	<b>G-A1A2</b> <b>G-B1A3</b> <b>G-C1A1</b>	<b>50</b> <b>20</b> <b>20</b>	<b>1616312</b> <b>1616324</b> <b>1616814</b>	<b>60MB Digital card</b> <b>60MB Analog card</b> <b>Drive card</b>	On Drive B (bottom drive) This will result when the power/driver cable (G-B1A5) is poorly connected. Reseat the cable and run the disk problem determination procedures. (MIM 150, 802)
<b>1955</b>	<b>G-A1A2</b> <b>G-B1A3</b> <b>G-C1A1</b> <b>G-DE</b>	<b>40</b> <b>20</b> <b>20</b> <b>10</b>	<b>1616312</b> <b>1616324</b> <b>1616814</b> <b>1616119</b>	<b>60MB Digital card</b> <b>60MB Analog card</b> <b>Drive card</b> <b>A3 (60MB HDA)</b>	On Drive B (bottom drive) This will result when the power/driver cable (G-B1A5) is poorly connected. Reseat the cable and run the disk problem determination procedures. (MIM 150, 802)
<b>1956</b>	<b>G-B1A3</b> <b>G-DE</b>	<b>40</b> <b>40</b>	<b>1616324</b> <b>1616119</b>	<b>60MB Analog card</b> <b>A3 (60MB HDA)</b>	On Drive B (bottom drive) (MIM 150, 802)
<b>1957</b>	<b>G-A1A2</b> <b>G-C1A1</b>	<b>40</b> <b>40</b>	<b>1616312</b> <b>1616814</b>	<b>60MB Digital card</b> <b>Drive card</b>	On Drive B (bottom drive) This will result when the power/driver cable (G-B1A5) is poorly connected. Reseat the cable and run the disk problem determination procedures. (MIM 150, 802)

**B2**

<b>SRC</b>	<b>FRU</b>	<b>%</b>	<b>P/N</b>	<b>FRU DESCRIPTION</b>	<b>SERVICE COMMENTS</b>
1958	G-A1A2	35	1616312	60MB Digital card	On Drive B (bottom drive) This will result when the power/driver cable (G-B1A5) is poorly connected. Reseat the cable and run the disk problem determination procedures. (MIM 150, 802)
	G-C1A1	35	1616814	Drive card	
	G-DE	10	1616119	A3 (60MB HDA)	
1959	G-B1A3	40	1616324	60MB Analog card	On Drive B (bottom drive)  (MIM 150, 802)
	G-A1A2	20	1616312	60MB Digital card	
	G-DE	20	1616119	A3 (60MB HDA)	
195A	A-A1A2	30	2462200	Disk B adapter	On Drive B (bottom drive) This will result when the signal cable (A-A1ZA - G-B1A2) is poorly connected. Reseat the cable and run the disk problem determination procedures. (MIM 150, 802)
	G-A1A2	30	1616312	60MB Digital card	
	G-B1A3	30	1616324	60MB Analog card	
195C	G-C1A1	60	1616814	Drive card	On Drive B (bottom drive) Fuse has blown. Replace FRUs in the order listed. Where two FRUs are listed both must be replaced or the failing FRU will destroy the C1A1 card. (MIM 150, 802)
	G-A1A2	20	1616312	60MB Digital card	
	G-C1A1		1616814	Drive card	
	G-DE	1	1616119	Drive card A3 (60MB HDA)	
195E	G-DE	50	1616119	A3 (60MB HDA)	Possible media error. Run Pack Analysis (MIM 338). (MIM 150, 802)

SRC	FRU	%	P/N	FRU DESCRIPTION	SERVICE COMMENTS
195F					No failure found for Drive A and Drive B. If you have previous SRCs, use those to identify the failing FRU. If disk problems are still suspected, run Pack Analysis (MIM 338). (MIM 150, 802)
197F					Error not determined. Run disk problem determination procedures. (MIM 105, 802)
19A0	Drive A A-A1B2 F-A1A2  Drive B A-A1A2 G-A1A2	50 40  50 40	2462200 1616312 1616312  2462200 1616312	Disk A adapter 30MB Digital card 60MB Digital card  Disk B adapter 60MB Digital card	Disk Interface Parity Check.  (MIM 105)
19A1	Drive A F-B1A3  F-A1A2  F-C1A1 F-DE  Drive B G-B1A3 G-A1A2 G-C1A1 G-DE	40  30  10 10  40 30 10 10	4044272 1616324 1616312 1616312 1616814 1616699 1616119  1616324 1616312 1616814 1616119	30MB Analog card 60MB Analog card 30MB Digital card 60MB Digital card Drive card A2 (30MB HDA) A3 (60MB HDA)  60MB Analog card 60MB Digital card Drive card A3 (60MB HDA)	Card Unsafe Check.  (MIM 105)

B4



SRC	FRU	%	P/N	FRU DESCRIPTION	SERVICE COMMENTS
19A2	Drive A				DE Unsafe Check.
	F-A1A2	40	1616312	30MB Digital card	" - Data Protect" line may be the problem. See SRC 2302.  (MIM 105)
			1616312	60MB Digital card	
	F-B1A3	30	4044272	30MB Analog card	
			1616324	60MB Analog card	
	A-A1B2	20	2462200	Disk A adapter	
	F-C1A1	5	1616814	Drive card	
	F-DE	1	1616699	A2 (30MB HDA)	
			1616119	A3 (60MB HDA)	
	Drive B				
	G-A1A2	40	1616312	60MB Digital card	
	G-B1A3	30	1616324	60MB Analog card	
	A-A1A2	20	2462200	Disk B adapter	
G-C1A1	5	1616814	Drive card		
G-DE	1	1616119	A3 (60MB HDA)		
19A3	Drive A				Operation Unsafe Check.
	A-A1B2	40	2462200	Disk A adapter	(MIM 105)
	F-A1A2	30	1616312	30MB Digital card	
			1616312	60MB Digital card	
	F-B1A3	20	4044272	30MB Analog card	
			1616324	60MB Analog card	
	Drive B				
A-A1A2	40	2462200	Disk B adapter		
G-A1A2	30	1616312	60MB Digital card		
G-B1A3	20	1616324	60MB Analog card		



SRC	FRU	%	P/N	FRU DESCRIPTION	SERVICE COMMENTS		
19A7	Drive A F-B1A3	40	4044272 1616324	30MB Analog card 60MB Analog card	Servo Unsafe Check.          (MIM 105)		
	F-A1A2	15	1616312 1616312	30MB Digital card 60MB Digital card			
	F-C1A1	15	1616814	Drive card			
	F-DE	5	1616699 1616119	A2 (30MB HDA) A3 (60MB HDA)			
	Drive B G-B1A3	40	1616324	60MB Analog card			
	G-A1A2	30	1616312	60MB Digital card			
	G-C1A1	15	1616814	Drive card			
	G-DE	5	1616119	A3 (60MB HDA)			
	19A8	Drive A F-A1A2	40	1616312 1616312		30MB Digital card 60MB Digital card	Motor/Proc Unsafe Check.       (MIM 105)
		F-C1A1	30	1616814		Drive card	
F-DE		25	1616699 1616119	A2 (30MB HDA) A3 (60MB HDA)			
Drive B G-A1A2		40	1616312	60MB Digital card			
G-C1A1		30	1616814	Drive card			
G-DE		25	1616119	A3 (60MB HDA)			
19A9		Drive A A-A1C2/ A-A1D2	50	2462209 2462201	DSA2 card DSA1 card	Interrupt Timeout Check.  If the A-A1C2 FRU is not installed, replace the A-A1D2 FRU instead.    (MIM 105)	
	A-A1B2	40	2462200	Disk A adapter			
	Drive B A-A1C2	50	2462209	DSA2 card			
	A-A1A2	40	2462200	Disk B adapter			
	19AA	A-A1C2	90	2462209	DSA2 card		Cycle Steal Address Check If the A-A1C2 FRU is not installed, replace the A-A1D2 FRU instead. (MIM 105)

SRC	FRU	%	P/N	FRU DESCRIPTION	SERVICE COMMENTS
19Ab	Drive A	50	2462209	DSA2 card	Command Parity Check.  If the A-1C2 FRU is not installed, replace the A-1D2 FRU instead.
	A-A1C2		2462201	DSA1 card	
	A-A1D2	40	2462200	Disk A adapter	
	A-A1B2				
	Drive B	50	2462209	DSA2 card	(MIM 105)
	A-A1C2		2462200	Disk B adapter	
	A-A1A2	40	2462200		
19AC	A-A1C2/ A-A1D2	90	2462209 2462201	DSA2 card DSA1 card	Cycle Steal Parity Check.  If the A-1C2 FRU is not installed, replace the A-1D2 FRU instead. (MIM 105)
19Ad	A-A1C2/ A-A1D2	90	2462209 2462201	DSA2 card DSA1 card	DSA Buffer Write Check. If the A-1C2 FRU is not installed, replace the A-1D2 FRU instead. (MIM 105)
19AE	Drive A	50	2462200	Disk A adapter	Interface Timeout Check.  If the A-1C2 FRU is not installed, replace the A-1D2 FRU instead.
	A-A1B2		2462209	DSA2 card	
	A-A1C2/ A-A1D2	40	2462201	DSA1 card	
	Drive B	50	2462200	Disk B adapter	(MIM 105)
	A-A1A2		2462209	DSA2 card	
	A-A1C2	40	2462209		
19AF	Drive A	50	2462209	DSA2 card	DSA Data Bus Parity Check  If the A-1C2 FRU is not installed, replace the A-1D2 FRU instead.
	A-A1C2/ A-A1D2		2462201	DSA1 card	
	A-A1B2	40	2462200	Disk A adapter	
	Drive B	50	2462209	DSA2 card	(MIM 105)
	A-A1C2		2462200	Disk B adapter	
	A-A1A2	40	2462200		

B8

SRC	FRU	%	P/N	FRU DESCRIPTION	SERVICE COMMENTS
19b0	Drive A				Data Overrun Check.  If the A-A1C2 FRU is not installed, replace the A-A1D2 FRU instead.  (MIM 105)
	A-A1B2	40	2462200	Disk A adapter	
	F-A1A2	30	1616312	30MB Digital card	
			1616312	60MB Digital card	
	A-A1C2/ A-A1D2	20	2462209	DSA2 card	
			2462201	DSA1 card	
	Drive B				
	A-A1A2	40	2462200	Disk B adapter	
G-A1A2	30	1616312	60MB Digital card		
A-A1C2	20	2462209	DSA2 card		
19b1	Drive A				CRC/ECC Check.  Have customer run "BUILD" procedure first If problem persists, replace FRU.  Run Pack Analysis. (MIM 338).  (MIM 105)
	A-A1B2	50	2462200	Disk A adapter	
	F-B1A3	30	4044272	30MB Analog card	
			1616324	60MB Analog card	
	F-C1A1	10	1616814	Drive card	
	F-DE	1	1616699	A2 (30MB HDA)	
			1616119	A3 (60MB HDA)	
	Drive B				
	A-A1A2	50	2462200	Disk B adapter	
	G-B1A3	30	1616324	60MB Analog card	
G-C1A1	10	1616814	Drive card		
G-DE	1	1616119	A3 (60MB HDA)		
19b2	Drive A				No Record Found Check.  Have customer run "BUILD" procedure first If problem persists, replace FRU.  Run Pack Analysis. (MIM 338).  (MIM 105)
	A-A1B2	50	2462200	Disk A adapter	
	F-B1A3	30	4044272	30MB Analog card	
			1616324	60MB Analog card	
	F-C1A1	10	1616814	Drive card	
	F-DE	1	1616699	A2 (30MB HDA)	
			1616119	A3 (60MB HDA)	
	Drive B				
	A-A1A2	50	2462200	Disk B adapter	
	G-B1A3	30	1616324	60MB Analog card	
G-C1A1	10	1616814	Drive card		
G-DE	1	1616119	A3 (60MB HDA)		

SRC	FRU	%	P/N	FRU DESCRIPTION	SERVICE COMMENTS
19b3	Drive A				Command Cycle Parity Check. If the A-A1C2 FRU is not installed, replace the A-A1D2 FRU instead.  (MIM 105)
	A-A1B2	50	2462200	Disk A adapter	
	A-A1C2/ A-A1D2	40	2462209 2462201	DSA2 card DSA1 card	
	Drive B				
	A-A1A2	50	2462200	Disk B adapter	
	A-A1C2	40	2462209	DSA2 card	
19b4	Drive A				Cable Continuity Check. Ensure that cable F-B1A2 or G-B1A2 is plugged in properly.  (MIM 105)
	A-A1B2	40	2462200	Disk A adapter	
	F-A1A2	30	1616312 1616312	30MB Digital card 60MB Digital card	
	F-B1A2	20	2453100	Signal cable	
	Drive B				
	A-A1A2	40	2462200	Disk B adapter	
	G-A1A2	30	1616312	60MB Digital card	
	G-B1A2	20	2453100	Signal cable	
19b5	Drive A				Data Cycle Parity Check. If the A-A1C2 FRU is not installed, replace the A-A1D2 FRU instead.  (MIM 105)
	A-A1C2/ A-A1D2	50	2462209 2462201	DSA2 card DSA1 card	
	A-A1B2	40	2462200	Disk A adapter	
	Drive B				
	A-A1C2	50	2462209	DSA2 card	
	A-A1A2	40	2462200	Disk B adapter	
19b6	Drive A				Sync Not Found check. Have customer run "BUILD" procedure first If problem persists, replace FRU. Run Pack Analysis. (MIM 105, 338).
	A-A1B2	40	2462200	Disk A adapter	
	Drive B				
	A-A1A2	40	2462200	Disk B adapter	

## B10



<b>SRC</b>	<b>FRU</b>	<b>%</b>	<b>P/N</b>	<b>FRU DESCRIPTION</b>	<b>SERVICE COMMENTS</b>
<b>1C00</b>	<b>A-A1P2</b> <b>A-A1Q2</b>	<b>50</b> <b>50</b>	<b>2462208</b> <b>2462210</b>	<b>WS adapter card</b> <b>WS controller card</b>	Work station adapter default code. IPL system and use IPL SRC for better FRU isolation. If there is no IPL SRC, replace FRU indicated by 1C00 SRC.
<b>1C01</b>	<b>A-A1P2</b> <b>A-A1Q2</b>	<b>70</b> <b>30</b>	<b>2462208</b> <b>2462210</b>	<b>WS adapter card</b> <b>WS controller card</b>	The system has a processor check caused by the work station attachment. IPL system and use IPL SRC for better FRU isolation. If there is no IPL SRC, replace FRUs indicated by 1C01 SRC.
<b>1C02</b>	<b>A-A1Q2</b>	<b>99</b>	<b>2462210</b>	<b>WS controller card</b>	The work station controller failed. IPL system and use IPL SRC for better FRU isolation. If there is no IPL SRC, replace FRU indicated by 1C02 SRC.
<b>1C03</b>	<b>A-A1P2</b> <b>A-A1Q2</b>	<b>80</b> <b>20</b>	<b>2462208</b> <b>2462210</b>	<b>WS adapter card</b> <b>WS controller card</b>	The work station adapter didn't complete its cycle steal operation. IPL system and use IPL SRC for better FRU isolation. If there is no IPL SRC, replace FRUs indicated by 1C03 SRC.
<b>1C04</b>	<b>Mcode</b>	<b>99</b>	<b>-----</b>	<b>Micro code</b>	There is a work station microcode error. No hardware errors are indicated. Call your PSR.

**B12**



<b>SRC</b>	<b>FRU</b>	<b>%</b>	<b>P/N</b>	<b>FRU DESCRIPTION</b>	<b>SERVICE COMMENTS</b>
1C05	A-A1P2	99	2462208	WS adapter card	The work station adapter has a hardware error but completed its cycle steal operation. IPL system and use IPL SRC for better FRU isolation. If there is no IPL SRC, replace FRUs indicated by 1C05 SRC.
1C10	A-A1Q2 A-A1G2	50 50	2462208 2462203	WS adapter card CSP card	Base work station adapter default code. IPL system and use IPL SRC for better FRU isolation. If there is no IPL SRC, replace FRUs indicated by 1C10 SRC.
1C11	A-A1Q2 A-A1G2	70 30	2462208 2462203	WS adapter card CSP card	System has a processor check caused by a work station hardware error. IPL system and use IPL SRC for better FRU isolation. If there is no IPL SRC, replace FRUs indicated by 1C11 SRC.
1C13	A-A1Q2 A-A1G2	80 20	2462208 2462203	WS adapter card CSP card	The base work station adapter didn't complete its cycle steal operation. IPL system and use IPL SRC for better FRU isolation. If there is no IPL SRC, replace FRUs indicated by 1C13 SRC.

**B13**

SRC	FRU	%	P/N	FRU DESCRIPTION	SERVICE COMMENTS
1C15	A-A1Q2	99	2462208	WS adapter card	The base work station adapter has a hardware error but completed its cycle steal. IPL system and use IPL SRC for better FRU isolation. If there is no IPL SRC, replace FRUs indicated by 1C15 SRC.
1d01	A-A1D2 A-A1B2	95 4	2462201 2462200	DSA1 card Disk A adapter	Attachment data bus parity check command reject, load parity check command/sense parity check, adapter senses parity check, buffer write check.
1d02	DCC A-A1D2 Drive  A-A1YB	65 30 4  1	4240728 2462201 4240512 4240516 4240513 4240517 2453100	Drive Control card DSA1 card Diskette Dr 100v 50Hz Diskette Dr 100v 60Hz Diskette Dr 200v 50Hz Diskette Dr 200v 60Hz Signal cable	Interface timeout interrupt timeout. DCC = drive control card See MIM 602 for isolating diskette drive problems.
1d03	A-A1B2 A-A1D2 A-A1G2 A-A1Q2  A-A1C2 A-A1T2  A-A1U2	30 30 10 10  10 5  5	2462200 2462201 2462203 2462208 2462210 2462209 2462210 2462211 2462212 2462214 2462213 2462215	Disk A adapter DSA1 card CSP card WS adapter card WS controller card DSA2 card ELCA controller card SLCA pass-thru card CSEIA card CSDDA card CSX21 card CSV35 card	Cycle steal parity check. If SLCA is installed, A1U2 is more probable than A1T2. If MLCA is installed, A1T2 is more probable than A1U2.
1d05	A-A1D2 A-A1G2	85 15	2462201 2462203	DSA1 card CSP card	Overrun or underrun.

B14

SRC	FRU	%	P/N	FRU DESCRIPTION	SERVICE COMMENTS
1d06	A-A1D2 DCC A-A1YB	80 19 1	2462201 4240728 2453100	DSA1 card Drive Control card Signal cable	Write gate wrap check, unsafe. DCC = drive control card See MIM 602 for isolating drive problems.
1d0A	Operate Drive  DCC ACMotor A-A1D2 Belt  A-A1YB ACCable	60 20  10 5 2 1  1 1	4240512 4240516 4240513 4240517 4240728 4240677 2462201 4240605 4240604 2453100 2453102	Diskette Dr 100v 50Hz Diskette Dr 100v 60Hz Diskette Dr 200v 50Hz Diskette Dr 200v 60Hz Drive Control card 100vac dskt motor DSA1 card 60 Hz dskt belt 50 Hz dskt belt Signal cable Cable/line filter	Diskette not at speed (stopped, slow or fast. No diskette in drive. Diskette inserted wrong. cable. See MIM 602 for isolating diskette drive problems.
1d0b	User Program	95			System received not valid parameter (noop).
1d0C	A-A1D2 Drive  DCC A-A1YB	45 45  9 1	2462201 4240512 4240516 4240513 4240517 4240728 2453100	DSA1 card Diskette Dr 100v 50Hz Diskette Dr 100v 60Hz Diskette Dr 200v 50Hz Diskette Dr 200v 60Hz Drive Control card Signal cable	Cylinder mismatch. Seek control not valid. See MIM 602 for isolating diskette drive problems.
1d0F	Media Drive  Other	95 3  2	4240512 4240516 4240513 4240517	Diskette Dr 100v 50Hz Diskette Dr 100v 60Hz Diskette Dr 200v 50Hz Diskette Dr 200v 60Hz	CRC check; AM not found. ID not found; write verify unequal. If unable to separate media/operator/hardware, run diskette OLPD.
1dA0	A-A1D2	99	2462201	DSA1 card	Error while running wraps to attachment card. DCC, signal cable. See MIM 602 for isolating diskette drive problems.

SRC	FRU	%	P/N	FRU DESCRIPTION	SERVICE COMMENTS
1dA1	Drive	70	4240512	Diskette Dr 100v 50Hz	Cannot read cylinder 0 head 0. See MIM 602 for isolating diskette drive problems.
			4240516	Diskette Dr 100v 60Hz	
			4240513	Diskette Dr 200v 50Hz	
			4240517	Diskette Dr 200v 60Hz	
			4240728	Drive Control card	
DCC	25	4240728	Drive Control card		
		A-A1D2	4	2462201	DSA1 card
		A-A1YB	1	2453100	Signal cable
1dA2	Drive	90	4240512	Diskette Dr 100v 50Hz	Worn-head test fails on head 0. See MIM 602 for isolating diskette drive problems.
			4240516	Diskette Dr 100v 60Hz	
			4240513	Diskette Dr 200v 50Hz	
			4240517	Diskette Dr 200v 60Hz	
			4240728	Drive Control card	
DCC	6	4240728	Drive Control card		
		A-A1D2	3	2462201	DSA1 card
		A-A1YB	1	2453100	Signal cable
1dA3	Drive	90	4240512	Diskette Dr 100v 50Hz	Worn-head test fails on head 1. See MIM 602 for isolating diskette drive problems.
			4240516	Diskette Dr 100v 60Hz	
			4240513	Diskette Dr 200v 50Hz	
			4240517	Diskette Dr 200v 60Hz	
			4240728	Drive Control card	
DCC	6	4240728	Drive Control card		
		A-A1D2	3	2462201	DSA1 card
		A-A1YB	1	2453100	Signal cable
1dA4	Drive	90	4240512	Diskette Dr 100v 50Hz	Worn-head test fails on both 0 and 1. See MIM 602 for isolating diskette drive problems.
			4240516	Diskette Dr 100v 60Hz	
			4240513	Diskette Dr 200v 50Hz	
			4240517	Diskette Dr 200v 60Hz	
			4240728	Drive Control card	
DCC	6	4240728	Drive Control card		
		A-A1D2	3	2462201	DSA1 card
		A-A1YB	1	2453100	Signal cable
1dA5	Drive	90	4240512	Diskette Dr 100v 50Hz	Scan test fails (hardware error) during OLPD after drive test ran good. See MIM 602 for isolating diskette drive problems.
			4240516	Diskette Dr 100v 60Hz	
			4240513	Diskette Dr 200v 50Hz	
			4240517	Diskette Dr 200v 60Hz	
			4240728	Drive Control card	
DCC	6	4240728	Drive Control card		
		A-A1D2	3	2462201	DSA1 card
		A-A1YB	1	2453100	Signal cable

## B16

<b>SRC</b>	<b>FRU</b>	<b>%</b>	<b>P/N</b>	<b>FRU DESCRIPTION</b>	<b>SERVICE COMMENTS</b>
2000					CSIPL load 1 start - \$IPL CUSTOMIZE then Re-IPL with wraps. (MIM 340, 324)
2001					Initialize page tables - \$IPL. CUSTOMIZE then Re-IPL with wraps. (MIM 340, 324)
2002					Initialize main storage - \$IPL. CUSTOMIZE then Re-IPL with wraps. (MIM 340, 324)
2010					CSIPL load 2 start - \$IPL. CUSTOMIZE then Re-IPL with wraps. (MIM 340, 324)
2012					First disk operation - \$IPL. CUSTOMIZE then Re-IPL with wraps. (MIM 340, 324)
2013					First disk operation complete - \$IPL. CUSTOMIZE then Re-IPL with wraps. (MIM 340, 324)
2014					Process unit definition table - \$IPL. CUSTOMIZE then Re-IPL with wraps. (MIM 340, 324)

<b>SRC</b>	<b>FRU</b>	<b>%</b>	<b>P/N</b>	<b>FRU DESCRIPTION</b>	<b>SERVICE COMMENTS</b>
<b>2016</b>					Call \$IPLOG for logging tables - \$IPL. CUSTOMIZE then Re-IPL with wraps. (MIM 340, 324)
<b>2018</b>	<b>A-A1T2</b>	<b>90</b>	<b>2462210</b>	<b>ELCA controller card</b>	Start MLCA controller load - \$IPL. CUSTOMIZE then Re-IPL with wraps. (MIM 340, 324)
	<b>A-A1U2</b>	<b>2</b>	<b>2462211</b>	<b>SLCA pass-thru card</b>	
			<b>2462212</b>	<b>CSEIA card</b>	
			<b>2462214</b>	<b>CSDDA card</b>	
			<b>2462213</b>	<b>CSX21 card</b>	
			<b>2462215</b>	<b>CSV35 card</b>	
	<b>A-A1V2</b>	<b>2</b>	<b>2462212</b>	<b>CSEIA card</b>	
			<b>2462214</b>	<b>CSDDA card</b>	
			<b>2462213</b>	<b>CSX21 card</b>	
			<b>2462215</b>	<b>CSV35 card</b>	
	<b>A-A1W2</b>	<b>2</b>	<b>2462212</b>	<b>CSEIA card</b>	
			<b>2462214</b>	<b>CSDDA card</b>	
			<b>2462213</b>	<b>CSX21 card</b>	
	<b>A-A1X2</b>	<b>2</b>	<b>2462215</b>	<b>CSV35 card</b>	
			<b>2462212</b>	<b>CSEIA card</b>	
			<b>2462214</b>	<b>CSDDA card</b>	
			<b>2462213</b>	<b>CSX21 card</b>	
			<b>2462215</b>	<b>CSV35 card</b>	
<b>201A</b>					DSA controller load - \$IPL. CUSTOMIZE then Re-IPL with wraps. (MIM 340, 324)
<b>201C</b>					Work station controller load - \$IPL. CUSTOMIZE then Re-IPL with wraps. (MIM 340, 324)
<b>201E</b>					\$IPL. CUSTOMIZE then Re-IPL with wraps. (MIM 340, 324)

**B18**

<b>SRC</b>	<b>FRU</b>	<b>%</b>	<b>P/N</b>	<b>FRU DESCRIPTION</b>	<b>SERVICE COMMENTS</b>
<b>2020</b>					MSIPL from disk - mode 0 - \$IPL. CUSTOMIZE then Re-IPL with wraps. (MIM 340, 324)
<b>2021</b>					Disk operation - read bootstrap - \$IPL. CUSTOMIZE then Re-IPL with wraps. (MIM 340, 324)
<b>2030</b>					MSIPL from diskette - mode F - \$IPL. CUSTOMIZE then Re-IPL with wraps. (MIM 340, 324)
<b>2031</b>					Diskette operation - \$IPL. CUSTOMIZE then Re-IPL with wraps. (MIM 340, 324)
<b>2032</b>					Diskette operation - \$IPL. CUSTOMIZE then Re-IPL with wraps. (MIM 340, 324)
<b>2033</b>					Diskette operation - \$IPL. CUSTOMIZE then Re-IPL with wraps. (MIM 340, 324)
<b>2034</b>					Diskette operation - recalibrate - \$IPL. CUSTOMIZE then Re-IPL with wraps. (MIM 340, 324)

**C1**

SRC	FRU	%	P/N	FRU DESCRIPTION	SERVICE COMMENTS
2035					Diskette operation - read valid - \$IPL. CUSTOMIZE then Re-IPL with wraps. (MIM 340, 324)
2036					Diskette operation - read bootstrap - \$IPL. CUSTOMIZE then Re-IPL with wraps. (MIM 340, 324)
2040					Start logging table initialization - \$IPL. CUSTOMIZE then Re-IPL with wraps. (MIM 340, 324)
2100	A-A1D2 A-A1G2 A-A1Q2  A-A1C2 A-A1T2  A-A1U2    A-A1F2	50 40 2  2 2  2    1	2462201 2462203 2462208 2462210 2462209 2462210 2462211 2462212 2462214 2462213 2462215 2462202	DSA1 card CSP card WS adapter card WS controller card DSA2 card ELCA controller card SLCA pass-thru card CSEIA card CSDDA card CSX21 card CSV35 card Control panel card	BDDA not found. Channel failure. See channel isolation procedure (MIM 155).  If SLCA is installed, A1U2 is more probable than A1T2. If MLCA is installed, A1T2 is more probable than A1U2. Note: Card position A-A1Q2 may have either the outboard controller (work station expansion system) or work station adapter (base system), depending on system configuration.

C2



SRC	FRU	%	P/N	FRU DESCRIPTION	SERVICE COMMENTS
2101	A-A1D2 A-A1B2	95 4	2462201 2462200	DSA1 card Disk A adapter	Attachment data bus parity check, command reject, load parity check, command/sense parity check adapter sensed parity check, buffer write check
2102	DCC A-A1D2 Drive  A-A1YB	65 30 4  1	4240728 2462201 4240512 4240516 4240513 4240517 2453100	Drive Control card DSA1 card Diskette Dr 100v 50Hz Diskette Dr 100v 60Hz Diskette Dr 200v 50Hz Diskette Dr 200v 60Hz Signal cable	Interrupt timeout. DCC = drive control card See MIM 602 for isolating diskette drive problems.
2103	A-A1C2 A-A1D2 A-A1G2 A-A1Q2  A-A1T2  A-A1U2	60 30 2 2  2  2	2462209 2462201 2462203 2462208 2462210 2462210 2462211 2462212 2462214 2462213 2462215	DSA2 card DSA1 card CSP card WS adapter card WS controller card ELCA controller card SLCA pass-thru card CSEIA card CSDDA card CSX21 card CSV35 card	Cycle steal parity check. See channel isolation procedure (MIM 155).  If SLCA is installed, A1U2 is more probable than A1T2. If MLCA is installed, A1T2 is more probable than A1U2.
2105	A-A1D2 A-A1G2	90 5	2462201 2462203	DSA1 card CSP card	Overrun/underrun.
2106	A-A1D2 DCC A-A1YB	50 49 1	2462201 4240728 2453100	DSA1 card Drive Control card Signal cable	Write gate wrap check, unsafe. See MIM 602 for isolating diskette drive problems. DCC = drive control card

SRC	FRU	%	P/N	FRU DESCRIPTION	SERVICE COMMENTS
210A	Operate Drive	60 20	4240512	Diskette Dr 100v 50Hz	Diskette stopped/slow, or fast, no diskette in drive, diskette inserted wrong. DCC = drive control card See MIM 602 for isolating diskette drive problems.
			4240516	Diskette Dr 100v 60Hz	
			4240513	Diskette Dr 200v 50Hz	
			4240517	Diskette Dr 200v 60Hz	
	DCC	10	4240728	Drive Control card	
	ACMotor	5	4240677	100vac dskt motor	
	A-A1D2	2	2462201	DSA1 card	
	Belt	1	4240605	60 Hz dskt belt	
4240604			50 Hz dskt belt		
A-A1YB	1	2453100	Signal cable		
ACCable	1	2453102	Cable/line filter		
210C	Drive	90	4240512	Diskette Dr 100v 50Hz	Cylinder mismatch, seek control not valid. DCC = drive control card See MIM 602 for isolating diskette drive problems.
			4240516	Diskette Dr 100v 60Hz	
			4240513	Diskette Dr 200v 50Hz	
			4240517	Diskette Dr 200v 60Hz	
			DCC	8	
A-A1D2	1	2462201	DSA1 card		
A-A1YB	1	2453100	Signal cable		
210F	Drive	94	4240512	Diskette Dr 100v 50Hz	Write verify unequal, CRC check, AM2 not found, ID not found. Diagnostic media is assumed to be good. DCC = drive control card See MIM 602 for isolating diskette drive problems.
			4240516	Diskette Dr 100v 60Hz	
			4240513	Diskette Dr 200v 50Hz	
			4240517	Diskette Dr 200v 60Hz	
			DCC	4	
A-A1D2	1	2462201	DSA1 card		
A-A1YB	1	2453100	Signal cable		
2110	A-A1D2	80	2462201	DSA1 card	Buffer adapter wraps failed. See channel isolation procedure (MIM 155).  Note: A-A1Q2 may be controller card or adapter card. See note in SRC 2100 comments.
	A-A1G2	15	2462203	CSP card	
	A-A1Q2	2	2462208	WS adapter card	
			2462210	WS controller card	
	A-A1C2	2	2462209	DSA2 card	
	A-A1T2	2	2462210	ELCA controller card	
			2462211	SLCA pass-thru card	
	A-A1U2	2	2462212	CSEIA card	
			2462214	CSDDA card	
			2462213	CSX21 card	
			2462215	CSV35 card	

C4

SRC	FRU	%	P/N	FRU DESCRIPTION	SERVICE COMMENTS	
2120	A-A1D2	65	2462201	DSA1 card	Parity Check test failed. TCC = top card connector	
	A-A1B2	34	2462200	Disk A adapter		
2130	A-A1D2	90	2462201	DSA1 card	Diskette DLC wraps failed. DCC = drive control card Re-IPL before replacing any FRUs.	
	DCC	5	4240728	Drive Control card		
	A-A1G2	3	2462203	CSP card		
	A-A1Q2	2	2462208	WS adapter card		
				2462210		WS controller card
	A-A1P2	1	2462208	WS adapter card		
2150	A-A1D2	99	2462201	DSA1 card	BDDA wraps complete, loader failed.	
2210	A-A1C2	55	2462209	DSA2 card	DSA2 ROS tests failed. Run disk problem determination procedures. If no problem is found in disk, go to Channel Isolation procedure (MIM 155). For communication cards, this is a 131 MS oscillator problem. (MIM 105, 802)	
	A-A1G2	20	2462203	CSP card		
	A-A1B2	15	2462200	Disk A adapter		
	A-A1D2	2	2462201	DSA1 card		
	A-A1Q2	2	2462208	WS adapter card		
				2462210		WS controller card
	A-A1T2	1	2462210	ELCA controller card		
				2462211		SLCA pass-thru card
	A-A1U2	1	2462212	CSEIA card		
				2462214		CSDDA card
				2462213		CSX21 card
				2462215		CSV35 card
	A-A1V2	1	2462212	CSEIA card		
				2462214		CSDDA card
				2462213		CSX21 card
				2462215		CSV35 card
	A-A1W2	1	2462212	CSEIA card		
				2462214		CSDDA card
			2462213	CSX21 card		
			2462215	CSV35 card		
A-A1X2	1	2462212	CSEIA card			
			2462214	CSDDA card		
			2462213	CSX21 card		
			2462215	CSV35 card		

C5

SRC	FRU	%	P/N	FRU DESCRIPTION	SERVICE COMMENTS
2290	A-A1B2 A-A1C2/ A-A1D2	50 30	2462200 2462209 2462201	Disk A adapter DSA2 card DSA1 card	-- ROS Disk Loader -- Unexpected error before or during load. Run disk problem determination procedures before replacing FRUs. If A-A1C2 FRU is not installed, replace A-A1D2 (MIM 105, 802)
2291	A-A1B2 A-A1C2/ A-A1D2 F-A1A2  F-B1A3  A-A1YJ F-DE	40 30  10  5  5 2	2462200 2462209 2462201 1616312 1616312 4044272 1616324 2453100 1616699 1616119	Disk A adapter DSA2 card DSA1 card 30MB Digital card 60MB Digital card 30MB Analog card 60MB Analog card Signal cable A2 (30MB HDA) A3 (60MB HDA)	-- ROS Disk Loader --  Severe hardware error  Ensure cable A-A1YJ is properly seated.  Run disk problem determination procedures before replacing FRUs. If A-A1C2 FRU is not installed, replace A-A1D2 (MIM 105, 802)
2292	A-A1C2/ A-A1D2 A-A1B2 A-A1YJ	70  25 5	2462209 2462201 2462200 2453100	DSA2 card DSA1 card Disk A adapter Signal cable	-- ROS Disk Loader --  DSA error Ensure cable A-A1YJ is properly seated. Run disk problem determination procedures before replacing FRUs. If A-A1C2 FRU is not installed, replace A-A1D2 (MIM 105, 802)

<b>SRC</b>	<b>FRU</b>	<b>%</b>	<b>P/N</b>	<b>FRU DESCRIPTION</b>	<b>SERVICE COMMENTS</b>
2293	A-A1C2/ A-A1D2 A-A1B2 A-A1YJ F-A1A2	45  35 5 5	2462209 2462201 2462200 2453100 1616312 1616312	DSA2 card DSA1 card Disk A adapter Signal cable 30MB Digital card 60MB Digital card	-- ROS Disk Loader --  Interrupt Timeout Check  Ensure cable A-A1YJ is properly seated. Run disk problem determination procedures before replacing FRUs. If A-A1C2 FRU is not installed, replace A-A1D2 (MIM 105, 802)
2294	A-A1B2 F-B1A3  F-A1A2  A-A1YJ F-DE	55 15  15  5 2	2462200 4044272 1616324 1616312 1616312 2453100 1616699 1616119	Disk A adapter 30MB Analog card 60MB Analog card 30MB Digital card 60MB Digital card Signal cable A2 (30MB HDA) A3 (60MB HDA)	-- ROS Disk Loader -- ECC error. Ensure cable A-A1YJ is properly seated. Media or data problem. Run pack analysis - follow recommended actions (MIM 338). If that doesn't fix - reload microcode (MIM 324).  If that doesn't fix the problem, run disk problem determination procedures before replacing FRUs. (MIM 105, 802)

C7

<b>SRC</b>	<b>FRU</b>	<b>%</b>	<b>P/N</b>	<b>FRU DESCRIPTION</b>	<b>SERVICE COMMENTS</b>
<b>2295</b>	<b>A-A1B2</b> <b>F-B1A3</b>  <b>F-A1A2</b>  <b>A-A1YJ</b> <b>F-DE</b>	<b>65</b> <b>15</b>  <b>10</b>  <b>5</b> <b>2</b>	<b>2462200</b> <b>4044272</b> <b>1616324</b> <b>1616312</b> <b>1616312</b> <b>2453100</b> <b>1616699</b> <b>1616119</b>	<b>Disk A adapter</b> <b>30MB Analog card</b> <b>60MB Analog card</b> <b>30MB Digital card</b> <b>60MB Digital card</b> <b>Signal cable</b> <b>A2 (30MB HDA)</b> <b>A3 (60MB HDA)</b>	-- ROS Disk Loader -- NRF error. Ensure cable A-A1YJ is properly seated. Media problem. Run pack analysis - follow recommended actions (MIM 338). If that doesn't fix the problem, run disk problem determination procedures before replacing FRUs. (MIM 105, 802)
<b>22A0</b>					-- ROS Disk Loader -- Successful completion Indicates failure in execution of code from load. Customization may be wrong - reload microcode (MIM 324). If doesn't fix the problem, run disk problem determination procedures before replacing FRUs. (MIM 105, 802)
<b>2301</b>	<b>A-A1B2</b> <b>A-A1C2/</b> <b>A-A1D2</b> <b>A-A1YJ</b> <b>A-A1A2</b>	<b>70</b> <b>20</b>  <b>5</b> <b>5</b>	<b>2462200</b> <b>2462209</b> <b>2462201</b> <b>2453100</b> <b>2462200</b>	<b>Disk A adapter</b> <b>DSA2 card</b> <b>DSA1 card</b> <b>Signal cable</b> <b>Disk B adapter</b>	Adapter reg wrap failed.  Ensure cable A-A1YJ is properly seated. Run disk problem determination procedures before replacing FRUs. Possible +POR failure. Check power supply and cable. (MIM 435, 105, 802)

**C8**

SRC	FRU	%	P/N	FRU DESCRIPTION	SERVICE COMMENTS	
2302	A-A1B2	45	2462200	Disk A adapter	Adapter /Disk interface wrap failed.  Ensure cable A-A1YJ is properly seated. Run disk problem determination procedures before replacing FRUs. Possible Data Protect failure. Check power supply and cable. (MIM 435, 105, 802)	
	F-A1A2	45	1616312	30MB Digital card		
	A-A1YJ	5	2453100	60MB Digital card		
	A-A1F2	2	2462202	Signal cable Control panel card		
	Pwr Sup	2	5561773 5561774	Pwr sup(100 Volt) Pwr sup(200 Volt)		
	DCCable	1	2453107	Pwr Distribution cable		
2303	A-A1B2	70	2462200	Disk A adapter	Set interrupt req failed.  Run disk problem determination procedures before replacing FRUs. (MIM 105, 802)	
	A-A1C2/ A-A1D2	20	2462209 2462201	DSA2 card DSA1 card		
2304	F-A1A2	50	1616312	30MB Digital card	Motor Stop/POR test failed  Ensure cables A-A1YJ and F-B1A5 are properly seated Run disk problem determination procedures before replacing FRUs. (MIM 105, 802)	
	F-C1A1	20	1616312	60MB Digital card		
	A-A1YJ	5	1616814	Drive card		
	F-B1A5	5	2453100	Signal cable		
	A-A1B2	5	2453101	21ED Pwr Cable		
	F-DE	5	2462200	Disk A adapter		
			1616699	A2 (30MB HDA)		
			1616119	A3 (60MB HDA)		
2305	F-A1A2	30	1616312	30MB Digital card	Motor Start test failed.  Ensure cable F-B1A5 is properly seated. Run disk problem determination procedures before replacing FRUs. (MIM 105, 802)	
	F-B1A3	20	1616312	60MB Digital card		
	F-C1A1	20	4044272	30MB Analog card		
	F-DE	10	1616324	60MB Analog card		
				1616814		Drive card
				1616699		A2 (30MB HDA)
			1616119	A3 (60MB HDA)		
	F-B1A5	5	2453101	21ED Pwr Cable		

<b>SRC</b>	<b>FRU</b>	<b>%</b>	<b>P/N</b>	<b>FRU DESCRIPTION</b>	<b>SERVICE COMMENTS</b>
<b>2306</b>	<b>A-A1B2</b>	<b>60</b>	<b>2462200</b>	<b>Disk A adapter</b>	Adapter Read Manufacturing Cylinder Data failed.  Ensure cable A-A1YJ is properly seated. Run disk problem determination procedures before replacing FRUs. Note: This test checks for a 30 or 60 on manufacturing cylinder. This test will fail if data is not present. (MIM 105, 802)
	<b>F-A1A2</b>	<b>10</b>	<b>1616312</b>	<b>30MB Digital card</b>	
			<b>1616312</b>	<b>60MB Digital card</b>	
	<b>F-B1A3</b>	<b>10</b>	<b>4044272</b>	<b>30MB Analog card</b>	
			<b>1616324</b>	<b>60MB Analog card</b>	
	<b>F-DE</b>	<b>10</b>	<b>1616699</b>	<b>A2 (30MB HDA)</b>	
			<b>1616119</b>	<b>A3 (60MB HDA)</b>	
	<b>A-A1YJ</b>	<b>5</b>	<b>2453100</b>	<b>Signal cable</b>	
<b>2307</b>	<b>A-A1A2</b>	<b>45</b>	<b>2462200</b>	<b>Disk B adapter</b>	Microprocessor Checkout A3 bit error. Run disk problem determination procedures before replacing FRUs. (MIM 105, 802)
	<b>G-B1A3</b>	<b>45</b>	<b>1616324</b>	<b>60MB Analog card</b>	
<b>2308</b>	<b>A-A1B2</b>	<b>60</b>	<b>2462200</b>	<b>Disk A adapter</b>	Read/Write/Read/Verify Read CE Cylinder failed.  Ensure cable A-A1YJ is properly seated. Run disk problem determination procedures before replacing FRUs. (MIM 105, 802)
	<b>F-A1A2</b>	<b>10</b>	<b>1616312</b>	<b>30MB Digital card</b>	
			<b>1616312</b>	<b>60MB Digital card</b>	
	<b>F-B1A3</b>	<b>10</b>	<b>4044272</b>	<b>30MB Analog card</b>	
			<b>1616324</b>	<b>60MB Analog card</b>	
	<b>F-DE</b>	<b>10</b>	<b>1616699</b>	<b>A2 (30MB HDA)</b>	
			<b>1616119</b>	<b>A3 (60MB HDA)</b>	
	<b>A-A1YJ</b>	<b>5</b>	<b>2453100</b>	<b>Signal cable</b>	

## C10



SRC	FRU	%	P/N	FRU DESCRIPTION	SERVICE COMMENTS
2309	A-A1B2	60	2462200	Disk A adapter	Read/Write/Read/Verify Write CE Cylinder failed.
	F-A1A2	10	1616312	30MB Digital card	
			1616312	60MB Digital card	Ensure cable A-A1YJ is properly seated. Run disk problem determination procedures before replacing FRUs. (MIM 105, 802)
	F-B1A3	10	4044272	30MB Analog card	
			1616324	60MB Analog card	
F-DE	10	1616699	A2 (30MB HDA)		
		1616119	A3 (60MB HDA)		
	A-A1YJ	5	2453100	Signal cable	
230A	A-A1B2	60	2462200	Disk A adapter	Read/Write/Read/Verify Read CE Cylinder Data Into Buffer 2 Test failed.
	F-A1A2	10	1616312	30MB Digital card	
			1616312	60MB Digital card	Ensure cable A-A1YJ is properly seated. Run disk problem determination procedures before replacing FRUs. (MIM 105, 802)
	F-B1A3	10	4044272	30MB Analog card	
			1616324	60MB Analog card	
F-DE	10	1616699	A2 (30MB HDA)		
		1616119	A3 (60MB HDA)		
	A-A1YJ	5	2453100	Signal cable	
230b	A-A1B2	60	2462200	Disk A adapter	Read/Write/Read/Verify Miscompare On Data From Previous Read And Write.
	F-A1A2	10	1616312	30MB Digital card	
			1616312	60MB Digital card	Ensure cable A-A1YJ is properly seated. Run disk problem determination procedures before replacing FRUs. (MIM 105, 802)
	F-B1A3	10	4044272	30MB Analog card	
			1616324	60MB Analog card	
	A-A1YJ	10	2453100	Signal cable	

SRC	FRU	%	P/N	FRU DESCRIPTION	SERVICE COMMENTS
230F	A-A1C2/ A-A1D2	40	2462209 2462201	DSA2 card DSA1 card	DLC1 parity check failure. If two drive system - possible DSA2 not found. Run disk problem determination procedures before replacing FRUs.  (MIM 105, 802)
	A-A1B2	30	2462200	Disk A adapter	
	A-A1D2	5	2462201	DSA1 card	
	A-A1G2	5	2462203	CSP card	
	A-A1Q2	5	2462208 2462210	WS adapter card WS controller card	
	A-A1T2	5	2462210 2462211	ELCA controller card SLCA pass-thru card	
2400	Program				CDKTABLE not found.
2401	Program				SYSTEM CONSOLE entry not in TEMP UDT.
2402	Program				DISK entry not in TEMP UDT
2403	Program				MSP entry not in TEMP UDT.
2404	Program				SYSTEM entry not in TEMP UDT.
2405	Program				WSC entry not in TEMP UDT.
2409	Program				System console entry not in SYSTEM UDT.
240A	Program				MSP entry not in SYSTEM UDT.
240C	Program				WSC entry not in SYSTEM UDT
240E	Program				2K bad page entry.
240F	Program				SYSTEM entry not in SYSTEM UDT.
2410	Program				WSC inbord/out not valid- board ID in UDT.
2411	Program				Diskette read error.
2412	Program				Disk Read error. Run Disk Problem Determination procedures.

C12

<b>SRC</b>	<b>FRU</b>	<b>%</b>	<b>P/N</b>	<b>FRU DESCRIPTION</b>	<b>SERVICE COMMENTS</b>
2414	Program				1-1000 or 1-CECE IPL attempted on a release 3 system. Re-IPL with 3-1000 or 3-CECE and a release 3 DSKT01.
2415	Program				Hardware configuration change and a RELOAD of the SSP was attempted at the same time. Install SSP first, then the feature(s) and then attempt it again. Verify that feature(s) is installed correctly.
2416	Program				No bus coupler present (WSC feature not installed /removed correctly)
2417	Program				Wrong bus coupler initial address loaded as the WSC bus coupler.
2418	Program				Config change without diskette 1. Retry.
2450	Program				Module not found on diskette.
2451	Program				Module too large to load.
2452	Program				Diskette I/O error or control block not valid.
2453	Program				Load module not found on diskette.
2454	Program				TU not found in Load Module.
2455	Program				Diskette I/O error.
2456	Program				Function not supported.
2457	Program				Wrong diskette inserted.

**C13**

SRC	FRU	%	P/N	FRU DESCRIPTION	SERVICE COMMENTS
2458	Program				CSU verification supervisor not found. Ensure that @PCIOOSS is customized to disk.
2459	Program				Disk I/O error. Control block not valid.
24A0	Custmiz Program				Unresolved external associated with RLD type 7
24A1	Custmiz Program				RLD type 7 external references an entry in a relocatable module.
24A2	Custmiz Program				Diskette has wrong P/N. Verify LEVEL table and diskette P/N.
24A3	Custmiz Program				Microcode level table does not exist.
24A4	Custmiz Program				CSDIR table is full.
24A5	Custmiz Program				Entry table is full.
24A6	Custmiz Program				A module has an overlay module that is not in the CSDIR.
24A7	Custmiz Program				A module has an overlay module that is incorrectly defined.
24A8	Custmiz Program				All guaranteed good sectors are used.
24A9	Custmiz Program				Microcode has exceeded disk space permitted. Increase size of CSLIB.
24AA	Custmiz Program				An external label could not be resolved.

C14

SRC	FRU	%	P/N	FRU DESCRIPTION	SERVICE COMMENTS
24AC	Custmiz Program				External label type associated with RLD not valid.
24AE	Custmiz Program				XTRN2 type for RLD type not valid.
24AF	Custmiz Program				A required module could not be found in the CSDIR.
24C0	Custmiz Program				Machine check log work area is not in the CSDIR.
24C1	Custmiz Program				An oxref module ID is not found in the CSDIR.
24C2	Custmiz Program				RLD type not valid.
24C3	Custmiz Program				Exceeded space permitted for RLD data.
24C4	Custmiz Program				External table is full.
24C5	Custmiz Program				Exceeded space permitted for RLD data.
24C6	Custmiz Program				Dependency table not found Verify \$DEPEND on DSKT2.
24C7	Custmiz Program				Dependency table operation value not valid.
24C8	Custmiz Program				A dependency entry cannot be found.
24C9	Custmiz Program				A base module referenced by the dependency table could not be found.
24CA	Custmiz Program				The relocatable RLD table is full.
24FF	Custmiz Program				Program error.

<b>SRC</b>	<b>FRU</b>	<b>%</b>	<b>P/N</b>	<b>FRU DESCRIPTION</b>	<b>SERVICE COMMENTS</b>
<b>3006</b>	<b>A-A1B2 A-A1C2/ A-A1D2</b>	<b>60 30</b>	<b>2462200 2462209 2462201</b>	<b>Disk A adapter DSA2 card DSA1 card</b>	Permanent disk error. Dump could not be taken. Run disk problem determination procedures before replacing any FRUs. Replace FRUs only if disk procedure does not isolate failure. If the A-A1C2 FRU is not installed, replace the A-A1D2 FRU instead (MIM 105, 802).
<b>300b</b>	<b>A-A1B2 A-A1C2/ A-A1D2</b>	<b>60 30</b>	<b>2462200 2462209 2462201</b>	<b>Disk A adapter DSA2 card DSA1 card</b>	Permanent disk error. Dump could not be taken. Run disk problem determination procedures before replacing any FRUs. Replace FRUs only if disk procedure does not isolate failure. If the A-A1C2 FRU is not installed, replace the A-A1D2 FRU instead (MIM 105, 802).
<b>301E</b>	<b>A-A1B2 A-A1C2/ A-A1D2</b>	<b>60 30</b>	<b>2462200 2462209 2462201</b>	<b>Disk A adapter DSA2 card DSA1 card</b>	Permanent disk error. Dump could not be taken. Run disk problem determination procedures before replacing any FRUs. Replace FRUs only if disk procedure does not isolate failure. If the A-A1C2 FRU is not installed, replace the A-A1D2 FRU instead (MIM 105, 802).

## C16

<b>SRC</b>	<b>FRU</b>	<b>%</b>	<b>P/N</b>	<b>FRU DESCRIPTION</b>	<b>SERVICE COMMENTS</b>
3032	A-A1B2 A-A1C2/ A-A1D2	60 30	2462200 2462209 2462201	Disk A adapter DSA2 card DSA1 card	Permanent disk error. Dump could not be taken. Run disk problem determination procedures before replacing any FRUs. Replace FRUs only if disk procedure does not isolate failure. If the A-A1C2 FRU is not installed, replace the A-A1D2 FRU instead (MIM 105, 802).
3035	A-A1B2 A-A1C2/ A-A1D2	60 30	2462200 2462209 2462201	Disk A adapter DSA2 card DSA1 card	Permanent disk error. Dump could not be taken. Run disk problem determination procedures before replacing any FRUs. Replace FRUs only if disk procedure does not isolate failure. If the A-A1C2 FRU is not installed, replace the A-A1D2 FRU instead (MIM 105, 802).
3039	A-A1Q2  A-A1P2	75  25	2462208 2462210 2462208	WS adapter card WS controller card WS adapter card	The work station controller proc checked and error status could not be logged. IPL system and use IPL SRC for better FRU isolation. If there is no IPL SRC, replace FRUs indicated by 3039 SRC.

<b>SRC</b>	<b>FRU</b>	<b>%</b>	<b>P/N</b>	<b>FRU DESCRIPTION</b>	<b>SERVICE COMMENTS</b>
3043	A-A1B2 A-A1C2/ A-A1D2	60 30	2462200 2462209 2462201	Disk A adapter DSA2 card DSA1 card	Permanent disk error. Dump could not be taken. Run disk problem determination procedures before replacing any FRUs. Replace FRUs only if disk procedure does not isolate failure. If the A-A1C2 FRU is not installed, replace the A-A1D2 FRU instead (MIM 105, 802).
3049					Work station error. System dump could not be taken because of an error with work station controller.
304A					Diskette error during system dump.
304C	A-A1B2 A-A1C2/ A-A1D2	60 30	2462200 2462209 2462201	Disk A adapter DSA2 card DSA1 card	Permanent disk error or work station error. Run disk problem determination procedures before replacing any FRUs. Replace FRUs only if disk procedure does not isolate failure. If the A-A1C2 FRU is not installed, replace the A-A1D2 FRU instead (MIM 105, 802).

**C18**



<b>SRC</b>	<b>FRU</b>	<b>%</b>	<b>P/N</b>	<b>FRU DESCRIPTION</b>	<b>SERVICE COMMENTS</b>
<b>30CA</b>	<b>A-A1B2 A-A1C2/ A-A1D2</b>	<b>60 30</b>	<b>2462200 2462209 2462201</b>	<b>Disk A adapter DSA2 card DSA1 card</b>	Permanent disk error. Dump could not be taken. Run disk problem determination procedures before replacing any FRUs. Replace FRUs only if disk procedure does not isolate failure. If the A-A1C2 FRU is not installed, replace the A-A1D2 FRU instead (MIM 105, 802).
<b>30F1</b>					Permanent disk error during condense of system library.
<b>5010</b>					An error occurred on the display station address X on port Y. Options are: 0 to bypass 1 to retry
<b>5020</b>					The work station printer address X on port Y is not ready. Options are: 0 to bypass 1 to retry
<b>5021</b>					The work station printer address X on port Y is out of forms. Options are: 0 to bypass 1 to retry
<b>5022</b>					The work station printer address X on port Y has a forms check. Options are: 0 to bypass 1 to retry

**D1**

<b>SRC</b>	<b>FRU</b>	<b>%</b>	<b>P/N</b>	<b>FRU DESCRIPTION</b>	<b>SERVICE COMMENTS</b>
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 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.

**D2**

SRC	FRU	%	P/N	FRU DESCRIPTION	SERVICE COMMENTS
5099					Module not found on diskette or diskette I/O error. CSU diskette is bad or not in the drive.
5360					CSU pass 1 completed correctly. The CPU mainframe functions correctly. The system console is either not installed or not working.
5CCE					The system console has an error.
7151	Program				Work station error code program problem. SNA function not supported (work station display)
7154	A-A1U2/  A-A1V2/ A-A1W2/ A-A1X2	95	2462212 2462214 2462213 2462215	CSEIA card CSDDA card CSX21 card CSV35 card	Undefined remote error. (work station display) Run communications problem determination. Determine failing line from system message.
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)

D3

SRC	FRU	%	P/N	FRU DESCRIPTION	SERVICE COMMENTS
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	A-A1U2/  A-A1V2/ A-A1W2/ A-A1X2 Xcable/ Icable	95  5	2462212 2462214 2462213 2462215	CSEIA card CSDDA card CSX21 card CSV35 card	DLP time-out condition. (work station display) Run communications problem determination. Determine failing line from system message. Xcable = external cable Icable = internal cable (MIM 910)
7166	A-A1U2/  A-A1V2/ A-A1W2/ A-A1X2	95	2462212 2462214 2462213 2462215	CSEIA card CSDDA card CSX21 card CSV35 card	Severe line degradation. (work station display) Run communications problem determination. Determine failing line from system message.
7167	Program				Work station error code program problem. Protocol violation. (work station display)

D4

<b>SRC</b>	<b>FRU</b>	<b>%</b>	<b>P/N</b>	<b>FRU DESCRIPTION</b>	<b>SERVICE COMMENTS</b>
7168	A-A1U2/  A-A1V2/ A-A1W2/ A-A1X2 Xcable/ lcable	95  5	2462212 2462214 2462213 2462215	CSEIA card CSDDA card CSX21 card CSV35 card	Permanent DLP hardware error. (work station display) Run communications problem determination. Determine failing line from system message. Xcable = external cable lcable = internal cable (MIM 910)
7169	A-A1U2/  A-A1V2/ A-A1W2/ A-A1X2	95	2462212 2462214 2462213 2462215	CSEIA card CSDDA card CSX21 card CSV35 card	SNA request not valid. (work station display) Run communications problem determination. Determine failing line from system message.
716A	Program				Work station error code program problem. DLP communication error. (work station display)
716b	A-A1U2/  A-A1V2/ A-A1W2/ A-A1X2	95	2462212 2462214 2462213 2462215	CSEIA card CSDDA card CSX21 card CSV35 card	DLP communication reset. (work station display) Run communications problem determination. Determine failing line from system message.
7251	Program				Work station error code program problem. SNA function not supported (work station printer)

SRC	FRU	%	P/N	FRU DESCRIPTION	SERVICE COMMENTS
7254	A-A1U2/  A-A1V2/ A-A1W2/ A-A1X2	95	2462212 2462214 2462213 2462215	CSEIA card CSDDA card CSX21 card CSV35 card	Undefined remote error. (work station printer) Run communications problem determination. Determine failing line from system message.
7255	Program				Work station error code program problem. Change direction sent to printer (work station printer)
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)

D6

SRC	FRU	%	P/N	FRU DESCRIPTION	SERVICE COMMENTS
7265	A-A1U2/  A-A1V2/ A-A1W2/ A-A1X2	95	2462212 2462214 2462213 2462215	CSEIA card CSDDA card CSX21 card CSV35 card	DLP time-out condition. (work station printer) Run communications problem determination. Determine failing line from system message.
7266	A-A1U2/  A-A1V2/ A-A1W2/ A-A1X2	95	2462212 2462214 2462213 2462215	CSEIA card CSDDA card CSX21 card CSV35 card	Severe line degradation. (work station printer) Run communications problem determination. Determine failing line from system message.
7267	Program				Work station error code program problem. Protocol violation. (work station printer)
7268	A-A1U2/  A-A1V2/ A-A1W2/ A-A1X2	95	2462212 2462214 2462213 2462215	CSEIA card CSDDA card CSX21 card CSV35 card	Permanent DLP hardware error. (work station printer) Run communications problem determination. Determine failing line from system message.
7269	Program				Work station error code program problem. SNA request not valid. (work station printer)
726A	Program				Work station error code program problem. DLP communication error. (work station printer)

D7

<b>SRC</b>	<b>FRU</b>	<b>%</b>	<b>P/N</b>	<b>FRU DESCRIPTION</b>	<b>SERVICE COMMENTS</b>
726b	A-A1U2/  A-A1V2/ A-A1W2/ A-A1X2	95	2462212 2462214 2462213 2462215	CSEIA card CSDDA card CSX21 card CSV35 card	DLP communication reset. (work station printer) Run communications problem determination. Determine failing line from system message.
8101					Premature end of the data stream detected. (work station display)
8102	Program				Work station error code program problem. Row/ column address (work station display) not valid.
8103	Program				Work station error code program problem. Fields not defined in ascending address order. (work station display)
8104	Program				Work station error code program problem. Either there is an escape character missing or there is a command code that is not valid after an escape character. (work station display)
8105	Program				Work station error code program problem. Start field length (work station display) not valid.

D8



<b>SRC</b>	<b>FRU</b>	<b>%</b>	<b>P/N</b>	<b>FRU DESCRIPTION</b>	<b>SERVICE COMMENTS</b>
8106	Program				Work station error code program problem. Start field address (work station display) not valid.
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 passed the end of the display screen. (work station display)
8111	Program				Work station error code program problem. Start of header length does not equal 3. (work station display)

<b>SRC</b>	<b>FRU</b>	<b>%</b>	<b>P/N</b>	<b>FRU DESCRIPTION</b>	<b>SERVICE COMMENTS</b>
8112	Program				Work station error code program problem. Roll parameter error. Data following a roll command is not valid and has been detected (work station display)
8113	Program				Work station error code program problem. Missing or start field is not valid attribute or field format word. (work station display)
8114	Program				Work station error code program problem. Load display storage command not valid (work station display).
8115	Program				Work station error code program problem. Clear unit alternate parameter not valid. (work station display)
8116	Program				Work station error code program problem. Structured field length not valid. (work station display)
8117	Program				Work station error code program problem. Structured field class or type value not valid. (work station display)

**D10**

<b>SRC</b>	<b>FRU</b>	<b>%</b>	<b>P/N</b>	<b>FRU DESCRIPTION</b>	<b>SERVICE COMMENTS</b>
<b>8118</b>	<b>Program</b>				Work station error code program problem. Structured field parameter value not valid. (work station display)
<b>8131</b>	<b>Program</b>				Work station error code program problem. Field length not valid/ An input field length that is not valid has been detected on the display screen (work station display).
<b>8132</b>	<b>Program</b>				Work station error code program problem. Resequencing error. There is a resequencing field control word that is not valid in the format table (work station display).
<b>8134</b>	<b>Program</b>				Work station error code program problem. Shift character omission or misplacement in an IGC open field. (work station display)
<b>8142</b>	<b>Program</b>				Work station error code program problem. Data stream byte count of a request to configure a new work station (work station display)

**D11**

<b>SRC</b>	<b>FRU</b>	<b>%</b>	<b>P/N</b>	<b>FRU DESCRIPTION</b>	<b>SERVICE COMMENTS</b>
<b>8143</b>	<b>Program</b>				Work station error code program problem. Work station unit address not valid (work station display).
<b>8144</b>	<b>Program</b>				Work station error code program problem. Unit address already configured. (work station display)
<b>8145</b>	<b>Program</b>				Work station error code program problem. Attempt to configure too many work stations. (work station display)
<b>8160</b>	<b>Program</b>				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)
<b>8161</b>	<b>Program</b>				Work station error code program problem. IOB command modifier is not valid. (work station display)
<b>8162</b>	<b>Program</b>				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)

**D12**

<b>SRC</b>	<b>FRU</b>	<b>%</b>	<b>P/N</b>	<b>FRU DESCRIPTION</b>	<b>SERVICE COMMENTS</b>
8163	Program				Work station error code program problem. Unit address not valid (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 caused by operator error mode or system request mode. (work station display)
8170	Program				Work station error code program problem. Read issued to unlocked keyboard. (work station display)
8260	Program				Work station error code program problem. Value greater than 4096 in length field of printer IOB. (work station printer)

<b>SRC</b>	<b>FRU</b>	<b>%</b>	<b>P/N</b>	<b>FRU DESCRIPTION</b>	<b>SERVICE COMMENTS</b>
8261	Program				Work station error code program problem. IOB modifier is not valid (work station printer).
8262	Program				Work station error code program problem. Byte count in printer IOB not valid (work station printer).
8263	Program				Work station error code program problem. Unit address in unit address field o printer IOB not valid (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)

**D14**

<b>SRC</b>	<b>FRU</b>	<b>%</b>	<b>P/N</b>	<b>FRU DESCRIPTION</b>	<b>SERVICE COMMENTS</b>
<b>9901</b>	<b>LF/ACcb</b>	<b>66</b>	<b>2453068</b>	<b>AC Cbl asm(100V)</b>	Dead Machine. The System caused the Customer Power Circuit Breaker to trip. (Unit emergency switch is in the Power Off position) Disconnect the Line Cord and continuity check the AC circuits using MIM 430 There is a Ground/Short circuit on one of the AC lines in the machine.
			<b>2453069</b>	<b>AC Cbl asm(200V)</b>	
	<b>P Cord</b>	<b>17</b>	<b>2453010</b>	<b>L Cord 100V 10 ft</b>	
	<b>UE Sw</b>	<b>17</b>	<b>2453011</b> <b>1608874</b>	<b>L Cord 100V 6 ft</b> <b>Unit Emergency Sw</b>	
<b>9902</b>	<b>Pwr Sup</b>	<b>78</b>	<b>5561773</b> <b>5561774</b>	<b>Pwr sup(100 Volt)</b> <b>Pwr sup(200 Volt)</b>	Dead Machine. The System caused the Customer Power Circuit Breaker to trip with UE switch in the Power Enable position and not in the Power Off position.
	<b>LF/ACcb</b>	<b>15</b>	<b>2453068</b>	<b>AC Cbl asm(100V)</b>	
			<b>2453069</b>	<b>AC Cbl asm(200V)</b>	Disconnect JAC1 from the Power Supply. Continuity check pin 8 to frame using MIM 430 There is a Ground/Short circuit on one of the AC lines in the machine.
	<b>UE Sw</b>	<b>7</b>	<b>1608874</b>	<b>Unit Emergency Sw</b>	

**D15**

SRC	FRU	%	P/N	FRU DESCRIPTION	SERVICE COMMENTS
9903	Pwr Sup LF/ACcb Gt Fans Dskt Mo DskAfan	50 30 10 5 5	5561773 5561774 2453068 2453069 2453210 2453211 2453201 2453202 4240677 4240679 2453184 2453189 2453199 2453200	Pwr sup(100 Volt) Pwr sup(200 Volt) AC Cbl asm(100V) AC Cbl asm(200V) (50HZ 100 Volt) (50HZ 200 Volt) (60HZ 100 Volt) (60HZ 200 Volt) 51TD Motor 120 V 51TD Motor 200 V (50HZ 100 Volt) (50HZ 200 Volt) (60HZ 100 Volt) (60HZ 200 Volt)	Dead Machine. The System (Unit Emergency ENABLE) caused the Customer Power Circuit Breaker to trip with UE switch ENABLE position and Power On selected.  There is a Ground/Short circuit on one of the AC lines in the machine.
9904	Pwr Sup LF/ACcb UE Sw Control Panel DC Cbl P Cord	56 18 10 7 5 4	5561773 5561774 2453068 2453069 1608874  2453107 2453010 2453011	Pwr sup(100 Volt) Pwr sup(200 Volt) AC Cbl asm(100V) AC Cbl asm(200V) Unit Emergency Sw  DC Distribution Cable L Cord 100V 10 ft L Cord 100V 6 ft	** SEE CUSTOMER PROBLEM DETERMINATION PROCEDUR in the MAP Start Condition. **  There is probably a open circuit in the AC input.  The Control Panel or security lock could also caus this problem (See Panel Service procedure 505.).
9905	Pwr Sup DC Cbl Control Panel A-A1F2	79 11 5 5	5561773 5561774 2453107  2462202	Pwr sup(100 Volt) Pwr sup(200 Volt) DC Distribution Cable  Control panel card	Ensure the Keylock is in Normal or Service position The POWER ON led is On when the POWER ON switch is pressed. However the System will not power-on. The Control Panel could also cause this problem. (See Panel service procedure 505).

D16



SRC	FRU	%	P/N	FRU DESCRIPTION	SERVICE COMMENTS
9906	Gt Fan	25	2453210	(50HZ 100 Volt)	There has been a TEMP Error condition or the sense lines are open.  Note: if temp check does not reset in about 1 minute then the check is caused by a bad circuit.
			2453211	(50HZ 200 Volt)	
			2453201	(60HZ 100 Volt)	
			2453202	(60HZ 200 Volt)	
	DskAfan	25	2453184	(50HZ 100 Volt)	
			2453189	(50HZ 200 Volt)	
		2453199	(60HZ 100 Volt)		
		2453200	(60HZ 200 Volt)		
	Pwr Sup	32	5561773	Pwr sup(100 Volt)	
			5561774	Pwr sup(200 Volt)	
	Thermo	9			
	DC Cbl	9	2453107	DC Distribution Cable	
9907	Pwr Sup	80	5561773	Pwr sup(100 Volt)	There has been either a Over or Under VOLTAGE Error condition. Loose DC cable can cause this problem.
			5561774	Pwr sup(200 Volt)	
	DC Cbl	10	2453107	DC Distribution Cable	
	Control Panel	5			
	A-A1F2	5	2462202	Control panel card	

D17

SRC	FRU	%	P/N	FRU DESCRIPTION	SERVICE COMMENTS
9908	A-A1c	30	xxxxxxx	A-A1 Cards (A-X)	There has been a over CURRENT Error condition. The problem is probably in the load.  For Current isolation procedure see SRC 9908 in MIM Section 410.  The Control Panel could also cause this problem. (See Panel service procedure 505).
	Pwr Sup	22	5561773	Pwr sup(100 Volt)	
			5561774	Pwr sup(200 Volt)	
	DiskCds	13	4044270	21ED Analog Card	
			5811694	21ED Digital Card	
			1616814	21ED Disk Drvr Cd	
	Control Panel	8			
	A-A1P2	7	2462208	WS adapter card	
	Dskt Cd	7	4240728	51TD Drive Control Cd	
	DC Cbl	4	2453107	DC Distribution Cable	
	A-A1 BD	3	2453968	A1 Board	
	A/B DCc	1	2453101	21ED Disk A Cable	
			2453101	21ED Disk B Cable	
	A-A1T2	1	2462210	ELCA controller card	
			2462211	SLCA pass-thru card	
	A-A1U2	1	2462212	CSEIA card	
			2462214	CSDDA card	
			2462213	CSX21 card	
			2462215	CSV35 card	
	A-A1V2	1	2462212	CSEIA card	
		2462214	CSDDA card		
		2462213	CSX21 card		
		2462215	CSV35 card		
A-A1W2	1	2462212	CSEIA card		
		2462214	CSDDA card		
		2462213	CSX21 card		
		2462215	CSV35 card		
A-A1X2	1	2462212	CSEIA card		
		2462214	CSDDA card		
		2462213	CSX21 card		
		2462215	CSV35 card		
9909	A-A1c	46	xxxxxxx	A-A1 Cards (A-X)	There has been a over CURRENT Error condition. The problem is probably in the 1.7 volt load (A-A1). See 9909 in MIM Section 410.
	Pwr Sup	38	5561773	Pwr sup(100 Volt)	
			5561774	Pwr sup(200 Volt)	
	DC Cbl	12	2453107	DC Distribution Cable	
	A-A1 Bd	4	2453968	A-A1 Board	

## D18

SRC	FRU	%	P/N	FRU DESCRIPTION	SERVICE COMMENTS		
990A	Pwr Sup	78	5561773 5561774	Pwr sup(100 Volt) Pwr sup(200 Volt)	The Machine will not power-off.  The Control Panel or A-A1F2 could also cause this problem (See Panel Service procedure 505.).		
	Control Panel	6					
	A-A1F2	6	2462202	Control panel card			
	DC Cbl	5	2453107	DC Distribution Cable			
	A-A1T2	1	2462210 2462211	ELCA controller card SLCA pass-thru card			
	A-A1U2	1	2462212 2462214 2462213	CSEIA card CSDDA card CSX21 card			
	A-A1V2	1	2462215 2462212 2462214 2462213 2462215	CSV35 card CSEIA card CSDDA card CSX21 card CSV35 card			
	A-A1W2	1	2462212 2462214 2462213 2462215	CSEIA card CSDDA card CSX21 card CSV35 card			
	A-A1X2	1	2462212 2462214 2462213 2462215	CSEIA card CSDDA card CSX21 card CSV35 card			
	990b	Pwr Sup	53	5561773 5561774		Pwr sup(100 Volt) Pwr sup(200 Volt)	Obvious Power problems Fans or Motors not operating. Obvious mechanical failures. (Noisy or not turning).
		LF/ACcb	27	2453068 2453069		AC Cbl asm(100V) AC Cbl asm(200V)	
		Gt Fan	10	2453210 2453211 2453201 2453202		(50HZ 100 Volt) (50HZ 200 Volt) (60HZ 100 Volt) (60HZ 200 Volt)	
		Dskt Mo	5	4240677 4240679		51TD Motor 120 V 51TD Motor 200 V	
		DskAfan	5	2453184 2453189 2453199 2453200		(50HZ 100 Volt) (50HZ 200 Volt) (60HZ 100 Volt) (60HZ 200 Volt)	

SRC	FRU	%	P/N	FRU DESCRIPTION	SERVICE COMMENTS
990C	Pwr Sup	60	5561773	Pwr sup(100 Volt)	Power related problems but SRC 9901 - 990B do not describe the problem.
			5561774	Pwr sup(200 Volt)	
	Control Panel	15			
	A-A1F2 DC Cbl	15 10	2462202 2453107	Control panel card DC Distribution Cable	
A000					Unexpected error; Re-IPL.
A001					Unexpected error; Re-IPL.
A1A0	Drive A				Undetermined error. Run disk problem determination procedure. Replace FRUs only if disk problem determination procedure does not isolate failure. (MIM 802)
	A-A1B2	40	2462200	Disk A adapter	
	A-A1C2	30	2462209	DSA2 card	
	Drive B				
	A-A1A2	40	2462200	Disk B adapter	
	A-A1C2	30	2462209	DSA2 card	
A1A1	A-A1B2	40	2462200	Disk A adapter	Run disk problem determination procedure. Replace FRUs only if disk problem determination procedure does not isolate failure. (MIM 802)
	A-A1D2	30	2462201	DSA1 card	
A1A2	Drive A				Disk Unsafe error. Run disk problem determination procedure.  Replace FRUs only if disk problem determination procedure does not isolate failure. (MIM 802, 105)
	F-A1A2	40	1616312	30MB Digital card	
			1616312	60MB Digital card	
	F-B1A3	30	4044272	30MB Analog card	
			1616324	60MB Analog card	
	A-A1A2	20	2462200	Disk B adapter	
	F-DE	8	1616699	A2 (30MB HDA)	
			1616119	A3 (60MB HDA)	
	Drive B				
	G-A1A2	40	1616312	60MB Digital card	
	G-B1A3	30	1616324	60MB Analog card	
	A-A1A2	20	2462200	Disk B adapter	
	G-DE	8	1616119	A3 (60MB HDA)	

E2

SRC	FRU	%	P/N	FRU DESCRIPTION	SERVICE COMMENTS
A1A3	Drive A F-A1A2  F-B1A3  A-A1A2 F-DE	40  30  20 8	1616312 1616312 4044272 1616324 2462200 1616699 1616119	30MB Digital card 60MB Digital card 30MB Analog card 60MB Analog card Disk B adapter A2 (30MB HDA) A3 (60MB HDA)	Disk Unsafe error. Run disk problem determination procedure. Replace FRUs only if disk problem determination procedure does not isolate failure. (MIM 802, 105)
A1A4	Drive A A-A1B2 F-A1A2  F-B1A2  Drive B A-A1B2 G-A1A2 G-B1A2	40 30  20  40 30 20	2462200 1616312 1616312 2453100  2462200 1616312 2453100	Disk A adapter 30MB Digital card 60MB Digital card Signal cable  Disk A adapter 60MB Digital card Signal cable	Cable interlock error. Ensure that cable F-B1A2 or G-B1A2 is plugged in properly. Also check that A-A1B2 and A-A1A2 cards are plugged in properly.  (MIM 802, 105)
A1A5	A-A1B2 F-A1A2  F-B1A2	40 30  20	2462200 1616312 1616312 2453100	Disk A adapter 30MB Digital card 60MB Digital card Signal cable	Cable interlock error. Ensure that cable F-B1A2 or G-B1A2 is plugged in properly. Also check that A-A1B2 and A-A1A2 cards are plugged in properly. (MIM 802, 105)
A1A6					Permanent media error. Run pack analysis on Drive A and Drive B. (MIM 338)
A1A7					Permanent media error. Run pack analysis on Drive A. (MIM 338)



SRC	FRU	%	P/N	FRU DESCRIPTION	SERVICE COMMENTS
A1A8	Drive A				DSA/EXPERT interface error. Run disk problem determination procedure.  (MIM 802, 105)
	A-A1C2	40	2462209	DSA2 card	
	A-A1B2	40	2462200	Disk A adapter	
	F-DE	10	1616699	A2 (30MB HDA)	
			1616119	A3 (60MB HDA)	
	Drive B				
A-A1C2	40	2462209	DSA2 card		
A-A1A2	40	2462200	Disk B adapter		
G-DE	10	1616119	A3 (60MB HDA)		
A1A9	Drive A				DSA/EXPERT interface error. Run disk problem determination procedure. (MIM 802, 105)
	A-A1D2	40	2462201	DSA1 card	
	A-A1B2	40	2462200	Disk A adapter	
	F-XXXX	10			
A1b0					DCP IOB error.
A1C1					Work station I/O data stream error. Ensure the console is powered on. RE-IPL with a different diskette.
A1C2	A-A1P2	60	2462208	WS adapter card	Work station expansion feature hardware error. Go to MIM 155 if the FRUs do not fix the problem.
	A-A1Q2	40	2462208	WS adapter card	
			2462210	WS controller card	
A1C3					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 MIM 155.
A1E0					DCP Printer I/O error.

## E4

SRC	FRU	%	P/N	FRU DESCRIPTION	SERVICE COMMENTS
AF90					An unexpected error before or during disk load of control store nucleus. Customization may be wrong. Reload microcode. If that doesn't fix the problem, run disk problem determination procedures before replacing FRUs. (MIM 802, 324, 105)
AF91	A-A1B2 A-A1C2/ A-A1D2 F-A1A2  F-B1A3  A-A1YJ F-DE	40 30  10  5  5 2	2462200 2462209 2462201 1616312 1616312 4044272 1616324 2453100 1616699 1616119	Disk A adapter DSA2 card DSA1 card 30MB Digital card 60MB Digital card 30MB Analog card 60MB Analog card Signal cable A2 (30MB HDA) A3 (60MB HDA)	-- Disk Loader -- Severe hardware error. (control store nucleus load) Ensure cable A-A1YJ is properly seated. Run disk problem determination procedures before replacing FRUs. If A-A1C2 FRU is not installed, replace A-A1D2. (MIM 802, 105)
AF92	A-A1C2/ A-A1D2 A-A1B2 A-A1YJ	70  25 5	2462209 2462201 2462200 2453100	DSA2 card DSA1 card Disk A adapter Signal cable	-- Disk Loader -- DSA error. (control store nucleus load) Ensure cable A-A1YJ is properly seated. Run disk problem determination procedures before replacing FRUs. If A-A1C2 FRU is not installed, replace A-A1D2. (MIM 802, 105)

<b>SRC</b>	<b>FRU</b>	<b>%</b>	<b>P/N</b>	<b>FRU DESCRIPTION</b>	<b>SERVICE COMMENTS</b>
<b>AF93</b>	<b>A-A1C2/ A-A1D2 A-A1B2 A-A1YJ F-A1A2</b>	<b>45  35 5 5</b>	<b>2462209 2462201 2462200 2453100 1616312 1616312</b>	<b>DSA2 card DSA1 card Disk A adapter Signal cable 30MB Digital card 60MB Digital card</b>	-- Disk Loader -- Interrupt timeout Check. (control store nucleus load) Ensure cable A-A1YJ is properly seated. Run disk problem determination procedures before replacing FRUs. If A-A1C2 FRU is not installed, replace A-A1D2. (MIM 802, 105)
<b>AF94</b>	<b>A-A1B2 A-A1YJ</b>	<b>75 15</b>	<b>2462200 2453100</b>	<b>Disk A adapter Signal cable</b>	-- Disk Loader -- ECC error. Ensure cable A-A1YJ is properly seated. (control store nucleus load) Media or Data problem. Run pack analysis - follow recommended actions (MIM 338). If that doesn't fix - reload microcode. If that doesn't fix the problem, run disk problem determination procedures before replacing FRUs. (MIM 802, 105)

**E6**



<b>SRC</b>	<b>FRU</b>	<b>%</b>	<b>P/N</b>	<b>FRU DESCRIPTION</b>	<b>SERVICE COMMENTS</b>
<b>AF95</b>	<b>A-A1B2 A-A1YJ</b>	<b>75 15</b>	<b>2462200 2453100</b>	<b>Disk A adapter Signal cable</b>	-- Disk Loader -- Ensure cable A-A1YJ is properly seated. Run pack analysis - follow recommended actions (MIM 338). If that doesn't fix the problem, run disk problem determination procedures before replacing FRUs. (MIM 802, 105)
<b>AF96</b>					Completed control store nucleus load w/o detected errors. Indicate failure of code from load. Customization may be wrong. Reload microcode (MIM 324). If that doesn't fix the problem, run disk problem determination procedures before replacing FRUs. (MIM 802, 105)
<b>AFF2</b>					Unexpected interrupt on Interrupt Level 2. Devices on this interrupt: Data Communication Adapt (MIM 910) CSP (Interval Timer)

<b>SRC</b>	<b>FRU</b>	<b>%</b>	<b>P/N</b>	<b>FRU DESCRIPTION</b>	<b>SERVICE COMMENTS</b>
<b>AFF4</b>					Unexpected interrupt on Interrupt Level 4 Attempt to restart the current operation. Devices on this interrupt: Work Station Controller Data Storage Attachment - 1 Data Storage Attachment - 2 Data Storage Controller
<b>b500</b>					MDI MAP not found. Check for correct diskette or damaged diskette.
<b>b501</b>					Load module not found. Check for correct diskette or damaged diskette.
<b>b503</b>					Configure error.
<b>C000</b>					Default wrap supervisor halt code; Re-IPL.
<b>C001</b>					Wrap module not found. Misconfigured or bad disk or diskette. Check UDT for correct configuration.
<b>C002</b>					System reference code module ID (WFEO0) not found in wrap address table. Misconfigured or bad disk or diskette.
<b>C003</b>					Primary system reference code table entry missing. Misconfigured or bad disk or diskette.

**E8**

SRC	FRU	%	P/N	FRU DESCRIPTION	SERVICE COMMENTS
C004					Secondary system reference code table entry missing. Misconfigured or bad disk or diskette.
C201	A-A1N2/ A-A1M2/ A-A1L2/ A-A1K2 A-A1J2	45   45	2462206 2462261  2462205	MS card 128k MS card 256k  MSP Data flow card	Bad 2 KB main storage page. Use MIM 160 to find the bad card.
C601	A-A1Q2 A-A1P2 A-A1F2	95 4 1	2462210 2462208 2462202	WS controller card WS adapter card Control panel card	The work station controller was unable to perform an initial address load operation. Replace the FRUs first. If FRUs fail to fix the problem, go to MIM 155 Channel Strip.
C602	A-A1Q2 A-A1P2	95 5	2462210 2462208	WS controller card WS adapter card	The work station controller was unable to perform a sense data buffer operation. Replace the FRUs first. If FRUs fail to fix the problem, go to MIM 155 Channel Strip.
C603	A-A1Q2 A-A1P2	95 5	2462210 2462208	WS controller card WS adapter card	The work station controller was unable to perform a load cycle steal counter operation. Replace the FRUs first. If FRUs fail to fix the problem, go to MIM 155 Channel Strip.

<b>SRC</b>	<b>FRU</b>	<b>%</b>	<b>P/N</b>	<b>FRU DESCRIPTION</b>	<b>SERVICE COMMENTS</b>
<b>C604</b>	<b>A-A1Q2</b>	<b>90</b>	<b>2462210</b>	<b>WS controller card</b>	The work station controller failed the processor interrupt test. Replace the FRUs first. If FRUs fail to fix the problem, go to MIM 155 Channel Strip.
	<b>A-A1G2</b>	<b>6</b>	<b>2462203</b>	<b>CSP card</b>	
	<b>A-A1P2</b>	<b>4</b>	<b>2462208</b>	<b>WS adapter card</b>	
<b>C606</b>	<b>A-A1Q2</b>	<b>90</b>	<b>2462210</b>	<b>WS controller card</b>	The work station controller failed the program load test. Replace the FRUs first. If FRUs fail to fix the problem, go to MIM 155 Channel Strip.
	<b>A-A1P2</b>	<b>9</b>	<b>2462208</b>	<b>WS adapter card</b>	
	<b>A-A1G2</b>	<b>1</b>	<b>2462203</b>	<b>CSP card</b>	
<b>C608</b>	<b>A-A1Q2</b>	<b>90</b>	<b>2462210</b>	<b>WS controller card</b>	The work station controller failed the interrupt structure test. Replace the FRUs first. If FRUs fail to fix the problem, go to MIM 155 Channel Strip.
	<b>A-A1P2</b>	<b>9</b>	<b>2462208</b>	<b>WS adapter card</b>	
	<b>A-A1G2</b>	<b>1</b>	<b>2462203</b>	<b>CSP card</b>	
<b>C609</b>	<b>A-A1Q2</b>	<b>90</b>	<b>2462210</b>	<b>WS controller card</b>	The work station controller failed the pacer/block length test. Replace the FRUs first. If FRUs fail to fix the problem, go to MIM 155 Channel Strip.
	<b>A-A1P2</b>	<b>9</b>	<b>2462208</b>	<b>WS adapter card</b>	
	<b>A-A1G2</b>	<b>1</b>	<b>2462203</b>	<b>CSP card</b>	
<b>C610</b>	<b>A-A1Q2</b>	<b>65</b>	<b>2462210</b>	<b>WS controller card</b>	The work station controller failed the branch instruction test. Replace the FRUs first. If FRUs fail to fix the problem, go to MIM 155 Channel Strip.
	<b>A-A1P2</b>	<b>34</b>	<b>2462208</b>	<b>WS adapter card</b>	
	<b>A-A1G2</b>	<b>1</b>	<b>2462203</b>	<b>CSP card</b>	

## E10

<b>SRC</b>	<b>FRU</b>	<b>%</b>	<b>P/N</b>	<b>FRU DESCRIPTION</b>	<b>SERVICE COMMENTS</b>
<b>C611</b>	<b>A-A1Q2 A-A1P2</b>	<b>95 5</b>	<b>2462210 2462208</b>	<b>WS controller card WS adapter card</b>	The work station controller failed the register insturction test. Replace the FRUs first. If FRUs fail to fix the problem, go to MIM 155 Channel Strip.
<b>C612</b>	<b>A-A1Q2 A-A1P2</b>	<b>95 5</b>	<b>2462210 2462208</b>	<b>WS controller card WS adapter card</b>	The work station controller failed the arithmetic instruction test. Replace the FRUs first. If FRUs fail to fix the problem, go to MIM 155 Channel Strip.
<b>C613</b>	<b>A-A1Q2 A-A1P2</b>	<b>95 5</b>	<b>2462210 2462208</b>	<b>WS controller card WS adapter card</b>	The work station controller failed the register to storage instruction test. Replace the FRUs first. If FRUs fail to fix the problem, go to MIM 155 Channel Strip.
<b>C614</b>	<b>A-A1Q2 A-A1P2</b>	<b>95 5</b>	<b>2462210 2462208</b>	<b>WS controller card WS adapter card</b>	The work station controller failed the channel processor check test. Replace the FRUs first. If FRUs fail to fix the problem, go to MIM 155 Channel Strip.

**E11**

<b>SRC</b>	<b>FRU</b>	<b>%</b>	<b>P/N</b>	<b>FRU DESCRIPTION</b>	<b>SERVICE COMMENTS</b>
<b>C615</b>	<b>A-A1Q2 A-A1P2</b>	<b>95 5</b>	<b>2462210 2462208</b>	<b>WS controller card WS adapter card</b>	The work station controller failed the new attachment controller micro instruction test. Replace the FRUs first. If FRUs fail to fix the problem, go to MIM 155 Channel Strip.
<b>C616</b>	<b>A-A1Q2 A-A1P2</b>	<b>95 5</b>	<b>2462210 2462208</b>	<b>WS controller card WS adapter card</b>	The work station controller failed the base displacement instruction test. Replace the FRUs first. If FRUs fail to fix the problem, go to MIM 155 Channel Strip.
<b>C617</b>	<b>A-A1Q2 A-A1P2</b>	<b>95 5</b>	<b>2462210 2462208</b>	<b>WS controller card WS adapter card</b>	The work station controller failed its storage test. Replace the FRUs first. If FRUs fail to fix the problem, go to MIM 155 Channel Strip.
<b>C618</b>	<b>A-A1Q2 A-A1P2</b>	<b>95 5</b>	<b>2462210 2462208</b>	<b>WS controller card WS adapter card</b>	The work station controller failed its storage test. Replace the FRUs first. If FRUs fail to fix the problem, go to MIM 155 Channel Strip.
<b>C850</b>	<b>A-A1U2 A-A1T2 A-A1G2</b>	<b>96 1 1</b>	<b>2462212 2462211 2462203</b>	<b>CSEIA card SLCA pass-thru card CSP card</b>	EIA/CCITT communications adapter failure SLCA. CSIPL failure. EIA cable p/n 2453139.

## E12

<b>SRC</b>	<b>FRU</b>	<b>%</b>	<b>P/N</b>	<b>FRU DESCRIPTION</b>	<b>SERVICE COMMENTS</b>
<b>C851</b>	<b>A-A1U2 A-A1T2</b>	<b>96 1</b>	<b>2462212 2462210</b>	<b>CSEIA card ELCA controller</b>	EIA/CCITT communications adapter failure line 1. Note: If all comm lines fail with C8x1 (line 1), C8x2 (line 2), C8x3 (line 3), C8x4 (line 4) suspect A-A1T2 (55%). CSIPL failure. EIA cable p/n 2453139.
<b>C852</b>	<b>A-A1V2 A-A1T2</b>	<b>96 1</b>	<b>2462212 2462210</b>	<b>CSEIA card ELCA controller</b>	EIA/CCITT communications adapter failure line 2. NOTE: If all comm lines fail with C8x1 (line 1), C8x2 (line 2), C8x3 (line 3), C8x4 (line 4) suspect A-A1T2 (55%). CSIPL failure. EIA cable p/n 2453139.
<b>C853</b>	<b>A-A1W2 A-A1T2</b>	<b>96 1</b>	<b>2462212 2462210</b>	<b>CSEIA card ELCA controller</b>	EIA/CCITT communications adapter failure line 3. NOTE: If all comm lines fail with C8x1 (line 1), C8x2 (line 2), C8x3 (line 3), C8x4 (line 4) suspect A-A1T2 (55%). CSIPL failure. EIA cable p/n 2453139.
<b>C854</b>	<b>A-A1X2 A-A1T2</b>	<b>96 1</b>	<b>2462212 2462210</b>	<b>CSEIA card ELCA controller</b>	EIA/CCITT communications adapter failure line 4. NOTE: If all comm lines fail with C8x1 (line 1), C8x2 (line 2), C8x3 (line 3), C8x4 (line 4) suspect A-A1T2 (55%). CSIPL failure. EIA cable p/n 2453139.

<b>SRC</b>	<b>FRU</b>	<b>%</b>	<b>P/N</b>	<b>FRU DESCRIPTION</b>	<b>SERVICE COMMENTS</b>
<b>C860</b>	<b>A-A1U2 A-A1T2 A-A1G2</b>	<b>96 1 1</b>	<b>2462214 2462211 2462203</b>	<b>CSDDA card SLCA pass-thru card CSP card</b>	DDSA communications adapter failure SLCA. CSIPL failure. DDSA cable p/n 2453145.
<b>C861</b>	<b>A-A1U2 A-A1T2</b>	<b>96 1</b>	<b>2462214 2462210</b>	<b>CSDDA card ELCA controller</b>	DDSA communications adapter failure line 1. NOTE: If all comm lines fail with C8x1 (line 1), C8x2 (line 2), C8x3 (line 3), C8x4 (line 4) suspect A-A1T2 (55%). CSIPL failure. DDSA cable p/n 2453145.
<b>C862</b>	<b>A-A1V2 A-A1T2</b>	<b>96 1</b>	<b>2462214 2462210</b>	<b>CSDDA card ELCA controller</b>	DDSA communications adapter failure line 2. NOTE: If all comm lines fail with C8x1 (line 1), C8x2 (line 2), C8x3 (line 3), C8x4 (line 4) suspect A-A1T2 (55%). CSIPL failure. DDSA cable p/n 2453145.
<b>C863</b>	<b>A-A1W2 A-A1T2</b>	<b>96 1</b>	<b>2462214 2462210</b>	<b>CSDDA card ELCA controller</b>	DDSA communications adapter failure line 3. NOTE: If all comm lines fail with C8x1 (line 1), C8x2 (line 2), C8x3 (line 3), C8x4 (line 4) suspect A-A1T2 (55%). CSIPL failure. DDSA cable p/n 2453145.

**E14**



<b>SRC</b>	<b>FRU</b>	<b>%</b>	<b>P/N</b>	<b>FRU DESCRIPTION</b>	<b>SERVICE COMMENTS</b>
<b>C864</b>	<b>A-A1X2</b> <b>A-A1T2</b>	<b>96</b> <b>1</b>	<b>2462214</b> <b>2462210</b>	<b>CSDDA card</b> <b>ELCA controller</b>	DDSA communications adapter failure line 4. NOTE: If all comm lines fail with C8x1 (line 1), C8x2 (line 2), C8x3 (line 3), C8x4 (line 4) suspect A-A1T2 (55%). CSIPL failure. DDSA cable p/n 2453145.
<b>C870</b>	<b>A-A1U2</b> <b>A-A1T2</b> <b>A-A1G2</b>	<b>96</b> <b>1</b> <b>1</b>	<b>2462213</b> <b>2462211</b> <b>2462203</b>	<b>CSX21 card</b> <b>SLCA pass-thru card</b> <b>CSP card</b>	X.21 communications adapter failure SLCA. CSIPL failure. X.21 cable p/n 2453143.
<b>C871</b>	<b>A-A1U2</b> <b>A-A1T2</b>	<b>96</b> <b>1</b>	<b>2462213</b> <b>2462210</b>	<b>CSX21 card</b> <b>ELCA controller</b>	X.21 communications adapter failure line 1. NOTE: If all comm lines fail with C8x1 (line 1), C8x2 (line 2), C8x3 (line 3), C8x4 (line 4) suspect A-A1T2 (55%). CSIPL failure. X.21 cable p/n 2453143.
<b>C872</b>	<b>A-A1V2</b> <b>A-A1T2</b>	<b>96</b> <b>1</b>	<b>2462213</b> <b>2462210</b>	<b>CSX21 card</b> <b>ELCA controller</b>	X.21 communications adapter failure line 2 NOTE: If all comm lines fail with C8x1 (line 1), C8x2 (line 2), C8x3 (line 3), C8x4 (line 4) suspect A-A1T2 (55%). CSIPL failure. X.21 cable p/n 2453143.

**E15**

<b>SRC</b>	<b>FRU</b>	<b>%</b>	<b>P/N</b>	<b>FRU DESCRIPTION</b>	<b>SERVICE COMMENTS</b>
<b>C873</b>	<b>A-A1W2 A-A1T2</b>	<b>96 1</b>	<b>2462213 2462210</b>	<b>CSX21 card ELCA controller</b>	X.21 communications adapter failure line 3. NOTE: If all comm lines fail with C8x1 (line 1), C8x2 (line 2), C8x3 (line 3), C8x4 (line 4) suspect A-A1T2 (55%). CSIPL failure.
<b>C874</b>	<b>A-A1X2 A-A1T2</b>	<b>96 1</b>	<b>2462213 2462210</b>	<b>CSX21 card ELCA controller</b>	X.21 communications adapter failure line 4. NOTE: If all comm lines fail with C8x1 (line 1), C8x2 (line 2), C8x3 (line 3), C8x4 (line 4) suspect A-A1T2 (55%). CSIPL failure. X.21 cable p/n 2453143.
<b>C881</b>	<b>A-A1U2 A-A1T2</b>	<b>96 1</b>	<b>2462215 2462210</b>	<b>CSV35 card ELCA controller</b>	V.35 communications adapter failure line 1. NOTE: If all comm lines fail with C8x1 (line 1), C8x2 (line 2), C8x3 (line 3), C8x4 (line 4) suspect A-A1T2 (55%). CSIPL failure. V.35 cable p/n 2462238.
<b>C882</b>	<b>A-A1V2 A-A1T2</b>	<b>96 1</b>	<b>2462215 2462210</b>	<b>CSV35 card ELCA controller</b>	V.35 communications adapter failure line 2. NOTE: If all comm lines fail with C8x1 (line 1), C8x2 (line 2), C8x3 (line 3), C8x4 (line 4) suspect A-A1T2 (55%). CSIPL failure. V.35 cable p/n 2462238.

## E16

<b>SRC</b>	<b>FRU</b>	<b>%</b>	<b>P/N</b>	<b>FRU DESCRIPTION</b>	<b>SERVICE COMMENTS</b>
<b>C883</b>	<b>A-A1W2 A-A1T2</b>	<b>96 1</b>	<b>2462215 2462210</b>	<b>CSV35 card ELCA controller</b>	V.35 communications adapter failure line 3. NOTE: If all comm lines fail with C8x1 (line 1), C8x2 (line 2), C8x3 (line 3), C8x4 (line 4) suspect A-A1T2 (55 %). CSIPL failure. V.35 cable p/n 2462238.
<b>C884</b>	<b>A-A1X2 A-A1T2</b>	<b>96 1</b>	<b>2462215 2462210</b>	<b>CSV35 card ELCA controller</b>	V.35 communications adapter failure line 4. NOTE: If all comm lines fail with C8x1 (line 1), C8x2 (line 2), C8x3 (line 3), C8x4 (line 4) suspect A-A1T2 (55 %). CSIPL failure. V.35 cable p/n 2462238.
<b>C8A0</b>	<b>A-A1V2 A-A1T2 A-A1G2</b>	<b>96 1 1</b>	<b>2462212 2462211 2462203</b>	<b>CSEIA card SLCA pass-thru card CSP card</b>	EIA/CCITT communications adapter failure SLCA. CSIPL failure. EIA cable p/n 2453139.
<b>C8AA</b>	<b>A-A1T2 A-A1G2</b>	<b>95 2</b>	<b>2462210 2462203</b>	<b>ELCA controller CSP card</b>	Bus coupler TUs to Comm controller failed. Note: CSIPL failure.

SRC	FRU	%	P/N	FRU DESCRIPTION	SERVICE COMMENTS
C8Ab	A-A1T2	90	2462210	ELCA controller	Controller TUs to comm controller failed. Note: CSIPL failure. If SRC C8x1, C8x2, C8x3, or C8x4 is displayed, remove cards A-A1U2, A-A1V2, A-A1W2 and A-A1X RE-IPL, and if SRC C8Ab is displayed, replace A-A1T2, otherwise reinstall one card at a time until SRC C8Ab is displayed which means the last card installed is bad.
	A-A1U2	2	2462212	CSEIA card	
			2462214	CSDDA card	
			2462213	CSX21 card	
			2462215	CSV35 card	
			2462212	CSEIA card	
	A-A1V2	2	2462214	CSDDA card	
			2462213	CSX21 card	
			2462215	CSV35 card	
	A-A1W2	2	2462212	CSEIA card	
			2462214	CSDDA card	
			2462213	CSX21 card	
A-A1X2	2	2462215	CSV35 card		
		2462212	CSEIA card		
		2462214	CSDDA card		
		2462213	CSX21 card		
	2462215	CSV35 card			
C910	A-A1B2	70	2462200	Disk A adapter	Adapter reg wrap failed. Ensure customer PD has been completed. Ensure cable A-A1YJ is properly seated. Run disk problem determination procedures before replacing FRUs. (MIM 802, 105)
	A-A1C2/ A-A1D2	20	2462209	DSA2 card	
			2462201	DSA1 card	
	A-A1YJ	5	2453100	Signal cable	
	A-A1A2	5	2462200	Disk B adapter	
C911	A-A1B2	70	2462200	Disk A adapter	Set interrupt req failed. Ensure customer PD has been completed. Run disk problem determination procedures before replacing FRUs. (MIM 802, 105)
	A-A1C2/ A-A1D2	20	2462209	DSA2 card	
			2462201	DSA1 card	

## E18

<b>SRC</b>	<b>FRU</b>	<b>%</b>	<b>P/N</b>	<b>FRU DESCRIPTION</b>	<b>SERVICE COMMENTS</b>
<b>C912</b>	<b>A-A1B2</b>	<b>45</b>	<b>2462200</b>	<b>Disk A adapter</b>	Adapter/Disk interface wrap failed. Ensure customer PD has been completed. Ensure cable A-A1YJ is properly seated. Run disk problem determination procedures before replacing FRUs. (MIM 802, 105)
	<b>F-A1A2</b>	<b>45</b>	<b>1616312</b>	<b>30MB Digital card</b>	
	<b>A-A1YJ</b>	<b>5</b>	<b>2453100</b>	<b>60MB Digital card Signal cable</b>	
<b>C913</b>	<b>F-A1A2</b>	<b>50</b>	<b>1616312</b>	<b>30MB Digital card</b>	Motor Stop/POR test failed Ensure customer PD has been completed. Ensure cables A-A1YJ and F-B1A5 are properly seated Run disk problem determination procedures before replacing FRUs. (MIM 802, 105)
	<b>F-C1A1</b>	<b>20</b>	<b>1616814</b>	<b>60MB Digital card</b>	
	<b>A-A1YJ</b>	<b>5</b>	<b>2453100</b>	<b>Drive card</b>	
	<b>F-B1A5</b>	<b>5</b>	<b>2453101</b>	<b>Signal cable</b>	
	<b>A-A1B2</b>	<b>5</b>	<b>2462200</b>	<b>21ED Pwr Cable Disk A adapter</b>	
<b>C914</b>	<b>F-A1A2</b>	<b>75</b>	<b>1616312</b>	<b>30MB Digital card</b>	Disk interface register wrap failed. Ensure customer PD has been completed. Ensure cable A-A1YJ is properly seated. Run disk problem determination procedures before replacing FRUs. (MIM 802, 105)
	<b>A-A1B2</b>	<b>20</b>	<b>2462200</b>	<b>60MB Digital card</b>	
	<b>A-A1YJ</b>	<b>5</b>	<b>2453100</b>	<b>Disk A adapter Signal cable</b>	
<b>C915</b>	<b>F-A1A2</b>	<b>30</b>	<b>1616312</b>	<b>30MB Digital card</b>	Motor Start test failed. Ensure customer PD has been completed. Ensure cable F-B1A5 is properly seated. Run disk problem determination procedures before replacing FRUs. (MIM 802, 105)
	<b>F-B1A3</b>	<b>20</b>	<b>1616312</b>	<b>60MB Digital card</b>	
	<b>F-B1A5</b>	<b>20</b>	<b>4044272</b>	<b>30MB Analog card</b>	
	<b>F-C1A1</b>	<b>20</b>	<b>1616324</b>	<b>60MB Analog card</b>	
	<b>F-DE</b>	<b>10</b>	<b>1616814</b>	<b>Drive card</b>	
			<b>1616699</b>	<b>A2 (30MB HDA)</b>	
			<b>1616119</b>	<b>A3 (60MB HDA)</b>	
	<b>F-B1A5</b>	<b>5</b>	<b>2453101</b>	<b>21ED Pwr Cable</b>	

SRC	FRU	%	P/N	FRU DESCRIPTION	SERVICE COMMENTS
C916	F-A1A2	30	1616312	30MB Digital card	Recalibrate Head 0 failed. Ensure customer PD has been completed. Ensure cable F-B1A5 is properly seated. Run disk problem determination procedures before replacing FRUs. (MIM 802, 105)
			1616312	60MB Digital card	
	F-B1A3	20	4044272	30MB Analog card	
			1616324	60MB Analog card	
	F-C1A1	20	1616814	Drive card	
	F-DE	10	1616699	A2 (30MB HDA)	
			1616119	A3 (60MB HDA)	
	F-B1A5	5	2453101	21ED Pwr Cable	
C917	F-A1A2	30	1616312	30MB Digital card	Recalibrate Head 1 failed. Ensure customer PD has been completed. Ensure cable F-B1A5 is properly seated. Run disk problem determination procedures before replacing FRUs. (MIM 802, 105)
			1616312	60MB Digital card	
	F-B1A3	20	4044272	30MB Analog card	
			1616324	60MB Analog card	
	F-C1A1	20	1616814	Drive card	
	F-DE	10	1616699	A2 (30MB HDA)	
			1616119	A3 (60MB HDA)	
	F-B1A5	5	2453101	21ED Pwr Cable	
C918	F-A1A2	30	1616312	30MB Digital card	Multi-cylinder Seek failed Ensure customer PD has been completed. Ensure cable F-B1A5 is properly seated. Run disk problem determination procedures before replacing FRUs. (MIM 802, 105)
			1616312	60MB Digital card	
	F-B1A3	20	4044272	30MB Analog card	
			1616324	60MB Analog card	
	F-C1A1	20	1616814	Drive card	
	F-DE	10	1616699	A2 (30MB HDA)	
			1616119	A3 (60MB HDA)	
	F-B1A5	5	2453101	21ED Pwr Cable	
C919	F-A1A2	30	1616312	30MB Digital card	Multi-cylinder seek failed Ensure customer PD has been completed. Ensure cable F-B1A5 is properly seated. Run disk problem determination procedures before replacing FRUs. (MIM 802, 105)
			1616312	60MB Digital card	
	F-B1A3	30	4044272	30MB Analog card	
			1616324	60MB Analog card	
	F-C1A1	20	1616814	Drive card	
	F-DE	10	1616699	A2 (30MB HDA)	
			1616119	A3 (60MB HDA)	
	F-B1A5	5	2453101	21ED Pwr Cable	

A2

SRC	FRU	%	P/N	FRU DESCRIPTION	SERVICE COMMENTS
C91A	F-A1A2	30	1616312	30MB Digital card	Diagnostic Settle failed. Ensure customer PD has been completed. Ensure cable F-B1A5 is properly seated. Run disk problem determination procedures before replacing FRUs. (MIM 802, 105)
	F-B1A3	20	4044272	60MB Digital card	
	F-C1A1	20	1616324	30MB Analog card	
	F-DE	10	1616814	60MB Analog card	
	F-B1A5	5	1616699	Drive card	
			1616119	A2 (30MB HDA)	
			2453101	A3 (60MB HDA)	
			2453101	21ED Pwr Cable	
C91C	F-A1A2	40	1616312	30MB Digital card	Data time interval timing test failed. Ensure customer PD has been completed. Run disk problem determination procedures before replacing FRUs. (MIM 802, 105)
	F-B1A3	25	4044272	60MB Digital card	
	F-DE	25	1616324	30MB Analog card	
			1616699	60MB Analog card	
			1616119	A2 (30MB HDA)	
			1616119	A3 (60MB HDA)	
C91E	F-A1A2	40	1616312	30MB Digital card	Sector/Index timing test failed. Ensure customer PD has been completed. Run disk problem determination procedures before replacing FRUs. (MIM 802, 105)
	F-B1A3	25	4044272	60MB Digital card	
	F-DE	25	1616324	30MB Analog card	
			1616699	60MB Analog card	
			1616119	A2 (30MB HDA)	
			1616119	A3 (60MB HDA)	
C920	A-A1B2	60	2462200	Disk A adapter	Adapter access test failed Ensure customer PD has been completed. Ensure cable A-A1YJ is properly seated. Run disk problem determination procedures before replacing FRUs. (MIM 802, 105)
	F-A1A2	20	1616312	30MB Digital card	
	F-B1A3	5	4044272	60MB Digital card	
	A-A1YJ	5	1616324	30MB Analog card	
	F-DE	5	2453100	60MB Analog card	
			1616699	Signal cable	
			1616119	A2 (30MB HDA)	
			1616119	A3 (60MB HDA)	

SRC	FRU	%	P/N	FRU DESCRIPTION	SERVICE COMMENTS
C921	A-A1B2	70	2462200	Disk A adapter	Loop VFO test failed. Ensure customer PD has been completed. Ensure cable A-A1YJ is properly seated. Run disk problem determination procedures before replacing FRUs. (MIM 802, 105)
	F-A1A2	10	1616312	30MB Digital card	
			1616312	60MB Digital card	
	F-B1A3	5	4044272	30MB Analog card	
			1616324	60MB Analog card	
	A-A1YJ	5	2453100	Signal cable	
	F-DE	5	1616699	A2 (30MB HDA)	
			1616119	A3 (60MB HDA)	
C922	F-A1A2	30	1616312	30MB Digital card	Read ID all heads failed. Ensure customer PD has been completed. Run disk problem determination procedures before replacing FRUs. (MIM 802, 105)
			1616312	60MB Digital card	
	F-B1A3	20	4044272	30MB Analog card	
			1616324	60MB Analog card	
	F-DE	20	1616699	A2 (30MB HDA)	
			1616119	A3 (60MB HDA)	
C923	A-A1B2	60	2462200	Disk A adapter	Adapter read ID failed. Ensure customer PD has been completed. Ensure cable A-A1YJ is properly seated. Run disk problem determination procedures before replacing FRUs. (MIM 802, 105)
	F-A1A2	10	1616312	30MB Digital card	
			1616312	60MB Digital card	
	F-B1A3	10	4044272	30MB Analog card	
			1616324	60MB Analog card	
	F-DE	10	1616699	A2 (30MB HDA)	
			1616119	A3 (60MB HDA)	
	A-A1YJ	5	2453100	Signal cable	
C924	A-A1B2	60	2462200	Disk A adapter	Adapter read Data failed. Ensure customer PD has been completed. Ensure cable A-A1YJ is properly seated. Run disk problem determination procedures before replacing FRUs. (MIM 802, 105)
	F-A1A2	10	1616312	30MB Digital card	
			1616312	60MB Digital card	
	F-B1A3	10	4044272	30MB Analog card	
			1616324	60MB Analog card	
	F-DE	10	1616699	A2 (30MB HDA)	
			1616119	A3 (60MB HDA)	
	A-A1YJ	5	2453100	Signal cable	



<b>SRC</b>	<b>FRU</b>	<b>%</b>	<b>P/N</b>	<b>FRU DESCRIPTION</b>	<b>SERVICE COMMENTS</b>
<b>C925</b>	<b>A-A1B2</b>	<b>60</b>	<b>2462200</b>	<b>Disk A adapter</b>	<b>Read Verify failed. Ensure customer PD has been completed. Ensure cable A-A1YJ is properly seated. Run disk problem determination procedures before replacing FRUs. (MIM 802, 105)</b>
	<b>F-A1A2</b>	<b>10</b>	<b>1616312</b>	<b>30MB Digital card</b>	
			<b>1616312</b>	<b>60MB Digital card</b>	
	<b>F-B1A3</b>	<b>10</b>	<b>4044272</b>	<b>30MB Analog card</b>	
			<b>1616324</b>	<b>60MB Analog card</b>	
	<b>F-DE</b>	<b>10</b>	<b>1616699</b>	<b>A2 (30MB HDA)</b>	
			<b>1616119</b>	<b>A3 (60MB HDA)</b>	
	<b>A-A1YJ</b>	<b>5</b>	<b>2453100</b>	<b>Signal cable</b>	
<b>C926</b>	<b>F-A1A2</b>	<b>30</b>	<b>1616312</b>	<b>30MB Digital card</b>	<b>Write Data all heads failed. Ensure customer PD has been completed. Run disk problem determination procedures before replacing FRUs. (MIM 802, 105)</b>
			<b>1616312</b>	<b>60MB Digital card</b>	
	<b>F-B1A3</b>	<b>20</b>	<b>4044272</b>	<b>30MB Analog card</b>	
			<b>1616324</b>	<b>60MB Analog card</b>	
	<b>F-DE</b>	<b>20</b>	<b>1616699</b>	<b>A2 (30MB HDA)</b>	
			<b>1616119</b>	<b>A3 (60MB HDA)</b>	
<b>C927</b>	<b>A-A1B2</b>	<b>60</b>	<b>2462200</b>	<b>Disk A adapter</b>	<b>Adapter write Data failed. Ensure customer PD has been completed. Ensure cable A-A1YJ is properly seated. Run disk problem determination procedures before replacing FRUs. (MIM 802, 105)</b>
	<b>F-A1A2</b>	<b>10</b>	<b>1616312</b>	<b>30MB Digital card</b>	
			<b>1616312</b>	<b>60MB Digital card</b>	
	<b>F-B1A3</b>	<b>10</b>	<b>4044272</b>	<b>30MB Analog card</b>	
			<b>1616324</b>	<b>60MB Analog card</b>	
	<b>F-DE</b>	<b>10</b>	<b>1616699</b>	<b>A2 (30MB HDA)</b>	
			<b>1616119</b>	<b>A3 (60MB HDA)</b>	
	<b>A-A1YJ</b>	<b>5</b>	<b>2453100</b>	<b>Signal cable</b>	
<b>C928</b>	<b>A-A1B2</b>	<b>60</b>	<b>2462200</b>	<b>Disk A adapter</b>	<b>Read Diagnostic failed. Ensure customer PD has been completed. Ensure cable A-A1YJ is properly seated. Run disk problem determination procedures before replacing FRUs. (MIM 802, 105)</b>
	<b>F-A1A2</b>	<b>10</b>	<b>1616312</b>	<b>30MB Digital card</b>	
			<b>1616312</b>	<b>60MB Digital card</b>	
	<b>F-B1A3</b>	<b>10</b>	<b>4044272</b>	<b>30MB Analog card</b>	
			<b>1616324</b>	<b>60MB Analog card</b>	
	<b>F-DE</b>	<b>10</b>	<b>1616699</b>	<b>A2 (30MB HDA)</b>	
			<b>1616119</b>	<b>A3 (60MB HDA)</b>	
	<b>A-A1YJ</b>	<b>5</b>	<b>2453100</b>	<b>Signal cable</b>	

<b>SRC</b>	<b>FRU</b>	<b>%</b>	<b>P/N</b>	<b>FRU DESCRIPTION</b>	<b>SERVICE COMMENTS</b>
<b>C929</b>	<b>A-A1B2</b>	<b>60</b>	<b>2462200</b>	<b>Disk A adapter</b>	Correct ECC failed. Ensure customer PD has been completed. Ensure cable A-A1YJ is properly seated. Run disk problem determination procedures before replacing FRUs. (MIM 802, 105)
	<b>F-A1A2</b>	<b>10</b>	<b>1616312</b>	<b>30MB Digital card</b>	
			<b>1616312</b>	<b>60MB Digital card</b>	
	<b>F-B1A3</b>	<b>10</b>	<b>4044272</b>	<b>30MB Analog card</b>	
			<b>1616324</b>	<b>60MB Analog card</b>	
	<b>F-DE</b>	<b>10</b>	<b>1616699</b>	<b>A2 (30MB HDA)</b>	
			<b>1616119</b>	<b>A3 (60MB HDA)</b>	
	<b>A-A1YJ</b>	<b>5</b>	<b>2453100</b>	<b>Signal cable</b>	
<b>C930</b>	<b>A-A1A2</b>	<b>70</b>	<b>2462200</b>	<b>Disk B adapter</b>	Adapter reg wrap failed. Ensure customer PD has been completed. Ensure cable A-A1ZA is properly seated. Run disk problem determination procedures before replacing FRUs. (MIM 802, 105)
	<b>A-A1C2</b>	<b>20</b>	<b>2462209</b>	<b>DSA2 card</b>	
	<b>A-A1ZA</b>	<b>5</b>	<b>2453100</b>	<b>Signal cable</b>	
	<b>A-A1A2</b>	<b>5</b>	<b>2462200</b>	<b>Disk B adapter</b>	
<b>C931</b>	<b>A-A1A2</b>	<b>70</b>	<b>2462200</b>	<b>Disk B adapter</b>	Set interrupt req failed. Ensure customer PD has been completed. Run disk problem determination procedures before replacing FRUs. (MIM 802, 105)
	<b>A-A1C2</b>	<b>20</b>	<b>2462209</b>	<b>DSA2 card</b>	
<b>C932</b>	<b>A-A1A2</b>	<b>45</b>	<b>2462200</b>	<b>Disk B adapter</b>	Adapter/Disk interface wrap failed. Ensure customer PD has been completed. Ensure cable A-A1ZA is properly seated. Run disk problem determination procedures before replacing FRUs. (MIM 802, 105)
	<b>G-A1A2</b>	<b>45</b>	<b>1616312</b>	<b>60MB Digital card</b>	
	<b>A-A1ZA</b>	<b>5</b>	<b>2453100</b>	<b>Signal cable</b>	

## A6

<b>SRC</b>	<b>FRU</b>	<b>%</b>	<b>P/N</b>	<b>FRU DESCRIPTION</b>	<b>SERVICE COMMENTS</b>
<b>C933</b>	<b>G-A1A2</b>	<b>50</b>	<b>1616312</b>	<b>60MB Digital card</b>	Motor Stop/POR test failed Ensure customer PD has been completed. Ensure cables A-A1ZA and G-B1A5 are properly seated Run disk problem determination procedures before replacing FRUs. (MIM 802, 105)
	<b>G-C1A1</b>	<b>20</b>	<b>1616814</b>	<b>Drive card</b>	
	<b>A-A1ZA</b>	<b>5</b>	<b>2453100</b>	<b>Signal cable</b>	
	<b>G-B1A5</b>	<b>5</b>	<b>2453101</b>	<b>21ED Pwr Cable</b>	
	<b>A-A1A2</b>	<b>5</b>	<b>2462200</b>	<b>Disk B adapter</b>	
<b>C934</b>	<b>G-A1A2</b>	<b>75</b>	<b>1616312</b>	<b>60MB Digital card</b>	Disk interface register wrap failed. Ensure customer PD has been completed. Ensure cable A-A1ZA is properly seated. Run disk problem determination procedures before replacing FRUs. (MIM 802, 105)
	<b>A-A1A2</b>	<b>20</b>	<b>2462200</b>	<b>Disk B adapter</b>	
	<b>A-A1ZA</b>	<b>5</b>	<b>2453100</b>	<b>Signal cable</b>	
<b>C935</b>	<b>G-A1A2</b>	<b>30</b>	<b>1616312</b>	<b>60MB Digital card</b>	Motor Start test failed. Ensure customer PD has been completed. Ensure cable G-B1A5 is properly seated. Run disk problem determination procedures before replacing FRUs. (MIM 802, 105)
	<b>G-B1A3</b>	<b>20</b>	<b>1616324</b>	<b>60MB Analog card</b>	
	<b>G-C1A1</b>	<b>20</b>	<b>1616814</b>	<b>Drive card</b>	
	<b>G-DE</b>	<b>10</b>	<b>1616119</b>	<b>A3 (60MB HDA)</b>	
	<b>G-B1A5</b>	<b>5</b>	<b>2453101</b>	<b>21ED Pwr Cable</b>	
<b>C936</b>	<b>G-A1A2</b>	<b>30</b>	<b>1616312</b>	<b>60MB Digital card</b>	Recalibrate Head 0 failed. Ensure customer PD has been completed. Ensure cable G-B1A5 is properly seated. Run disk problem determination procedures before replacing FRUs. (MIM 802, 105)
	<b>G-B1A3</b>	<b>20</b>	<b>1616324</b>	<b>60MB Analog card</b>	
	<b>G-C1A1</b>	<b>20</b>	<b>1616814</b>	<b>Drive card</b>	
	<b>G-DE</b>	<b>10</b>	<b>1616119</b>	<b>A3 (60MB HDA)</b>	
	<b>G-B1A5</b>	<b>5</b>	<b>2453101</b>	<b>21ED Pwr Cable</b>	

<b>SRC</b>	<b>FRU</b>	<b>%</b>	<b>P/N</b>	<b>FRU DESCRIPTION</b>	<b>SERVICE COMMENTS</b>
<b>C937</b>	<b>G-A1A2</b> <b>G-B1A3</b> <b>G-C1A1</b> <b>G-DE</b> <b>G-B1A5</b>	<b>30</b> <b>20</b> <b>20</b> <b>10</b> <b>5</b>	<b>1616312</b> <b>1616324</b> <b>1616814</b> <b>1616119</b> <b>2453101</b>	<b>60MB Digital card</b> <b>60MB Analog card</b> <b>Drive card</b> <b>A3 (60MB HDA)</b> <b>21ED Pwr Cable</b>	Recalibrate Head 1 failed. Ensure customer PD has been completed. Ensure cable G-B1A5 is properly seated. Run disk problem determination procedures before replacing FRUs. (MIM 802, 105)
<b>C938</b>	<b>G-A1A2</b> <b>G-B1A3</b> <b>G-C1A1</b> <b>G-DE</b> <b>G-B1A5</b>	<b>30</b> <b>20</b> <b>20</b> <b>10</b> <b>5</b>	<b>1616312</b> <b>1616324</b> <b>1616814</b> <b>1616119</b> <b>2453101</b>	<b>60MB Digital card</b> <b>60MB Analog card</b> <b>Drive card</b> <b>A3 (60MB HDA)</b> <b>21ED Pwr Cable</b>	Multi-cylinder Seek failed Ensure customer PD has been completed. Ensure cable G-B1A5 is properly seated. Run disk problem determination procedures before replacing FRUs. (MIM 802, 105)
<b>C939</b>	<b>G-A1A2</b> <b>G-B1A3</b> <b>G-C1A1</b> <b>G-DE</b> <b>G-B1A5</b>	<b>30</b> <b>30</b> <b>20</b> <b>10</b> <b>5</b>	<b>1616312</b> <b>1616324</b> <b>1616814</b> <b>1616119</b> <b>2453101</b>	<b>60MB Digital card</b> <b>60MB Analog card</b> <b>Drive card</b> <b>A3 (60MB HDA)</b> <b>21ED Pwr Cable</b>	Multi-cylinder seek failed Ensure customer PD has been completed. Ensure cable G-B1A5 is properly seated. Run disk problem determination procedures before replacing FRUs. (MIM 802, 105)
<b>C93A</b>	<b>G-A1A2</b> <b>G-B1A3</b> <b>G-C1A1</b> <b>G-DE</b> <b>G-B1A5</b>	<b>30</b> <b>20</b> <b>20</b> <b>10</b> <b>5</b>	<b>1616312</b> <b>1616324</b> <b>1616814</b> <b>1616119</b> <b>2453101</b>	<b>60MB Digital card</b> <b>60MB Analog card</b> <b>Drive card</b> <b>A3 (60MB HDA)</b> <b>21ED Pwr Cable</b>	Diagnostic Settle failed. Ensure customer PD has been completed. Ensure cable G-B1A5 is properly seated. Run disk problem determination procedures before replacing FRUs. (MIM 802, 105)

<b>SRC</b>	<b>FRU</b>	<b>%</b>	<b>P/N</b>	<b>FRU DESCRIPTION</b>	<b>SERVICE COMMENTS</b>
<b>C93C</b>	<b>G-A1A2</b> <b>G-B1A3</b> <b>G-DE</b>	<b>40</b> <b>25</b> <b>25</b>	<b>1616312</b> <b>1616324</b> <b>1616119</b>	<b>60MB Digital card</b> <b>60MB Analog card</b> <b>A3 (60MB HDA)</b>	Data time interval timing test failed. Ensure customer PD has been completed. Run disk problem determination procedures before replacing FRUs. (MIM 802, 105)
<b>C93E</b>	<b>G-A1A2</b> <b>G-B1A3</b> <b>G-DE</b>	<b>40</b> <b>25</b> <b>25</b>	<b>1616312</b> <b>1616324</b> <b>1616119</b>	<b>60MB Digital card</b> <b>60MB Analog card</b> <b>A3 (60MB HDA)</b>	Sector/Index timing test failed. Ensure customer PD has been completed. Run disk problem determination procedures before replacing FRUs. (MIM 802, 105)
<b>C940</b>	<b>A-A1A2</b> <b>G-A1A2</b> <b>G-B1A3</b> <b>A-A1ZA</b> <b>G-DE</b>	<b>60</b> <b>20</b> <b>5</b> <b>5</b> <b>5</b>	<b>2462200</b> <b>1616312</b> <b>1616324</b> <b>2453100</b> <b>1616119</b>	<b>Disk B adapter</b> <b>60MB Digital card</b> <b>60MB Analog card</b> <b>Signal cable</b> <b>A3 (60MB HDA)</b>	Adapter access test failed Ensure customer PD has been completed. Ensure cable A-A1ZA is properly seated. Run disk problem determination procedures before replacing FRUs. (MIM 802, 105)
<b>C941</b>	<b>A-A1A2</b> <b>G-A1A2</b> <b>G-B1A3</b> <b>A-A1ZA</b> <b>G-DE</b>	<b>70</b> <b>10</b> <b>5</b> <b>5</b> <b>5</b>	<b>2462200</b> <b>1616312</b> <b>1616324</b> <b>2453100</b> <b>1616119</b>	<b>Disk B adapter</b> <b>60MB Digital card</b> <b>60MB Analog card</b> <b>Signal cable</b> <b>A3 (60MB HDA)</b>	Loop VFO test failed. Ensure customer PD has been completed. Ensure cable A-A1ZA is properly seated. Run disk problem determination procedures before replacing FRUs. (MIM 802, 105)

<b>SRC</b>	<b>FRU</b>	<b>%</b>	<b>P/N</b>	<b>FRU DESCRIPTION</b>	<b>SERVICE COMMENTS</b>
<b>C942</b>	<b>G-A1A2</b> <b>G-B1A3</b> <b>G-DE</b>	<b>30</b> <b>20</b> <b>20</b>	<b>1616312</b> <b>1616324</b> <b>1616119</b>	<b>60MB Digital card</b> <b>60MB Analog card</b> <b>A3 (60MB HDA)</b>	Read ID all heads failed. Ensure customer PD has been completed. Run disk problem determination procedures before replacing FRUs. (MIM 802, 105)
<b>C943</b>	<b>A-A1A2</b> <b>G-A1A2</b> <b>G-B1A3</b> <b>G-DE</b> <b>A-A1ZA</b>	<b>60</b> <b>10</b> <b>10</b> <b>10</b> <b>5</b>	<b>2462200</b> <b>1616312</b> <b>1616324</b> <b>1616119</b> <b>2453100</b>	<b>Disk B adapter</b> <b>60MB Digital card</b> <b>60MB Analog card</b> <b>A3 (60MB HDA)</b> <b>Signal cable</b>	Adapter read ID failed. Ensure customer PD has been completed. Ensure cable A-A1ZA is properly seated. Run disk problem determination procedures before replacing FRUs. (MIM 802, 105)
<b>C944</b>	<b>A-A1A2</b> <b>G-A1A2</b> <b>G-B1A3</b> <b>G-DE</b> <b>A-A1ZA</b>	<b>60</b> <b>10</b> <b>10</b> <b>10</b> <b>5</b>	<b>2462200</b> <b>1616312</b> <b>1616324</b> <b>1616119</b> <b>2453100</b>	<b>Disk B adapter</b> <b>60MB Digital card</b> <b>60MB Analog card</b> <b>A3 (60MB HDA)</b> <b>Signal cable</b>	Adapter read Data failed. Ensure customer PD has been completed. Ensure cable A-A1ZA is properly seated. Run disk problem determination procedures before replacing FRUs. (MIM 802, 105)
<b>C945</b>	<b>A-A1A2</b> <b>G-A1A2</b> <b>G-B1A3</b> <b>G-DE</b> <b>A-A1ZA</b>	<b>60</b> <b>10</b> <b>10</b> <b>10</b> <b>5</b>	<b>2462200</b> <b>1616312</b> <b>1616324</b> <b>1616119</b> <b>2453100</b>	<b>Disk B adapter</b> <b>60MB Digital card</b> <b>60MB Analog card</b> <b>A3 (60MB HDA)</b> <b>Signal cable</b>	Read Verify failed. Ensure customer PD has been completed. Ensure cable A-A1ZA is properly seated. Run disk problem determination procedures before replacing FRUs. (MIM 802, 105)

## A10

SRC	FRU	%	P/N	FRU DESCRIPTION	SERVICE COMMENTS
C946	G-A1A2 G-B1A3 G-DE	30 20 20	1616312 1616324 1616119	60MB Digital card 60MB Analog card A3 (60MB HDA)	Write Data all heads failed. Ensure customer PD has been completed. Run disk problem determination procedures before replacing FRUs. (MIM 802, 105)
C947	A-A1A2 G-A1A2 G-B1A3 G-DE A-A1ZA	60 10 10 10 5	2462200 1616312 1616324 1616119 2453100	Disk B adapter 60MB Digital card 60MB Analog card A3 (60MB HDA) Signal cable	Adapter write Data failed. Ensure customer PD has been completed. Ensure cable A-A1ZA is properly seated. Run disk problem determination procedures before replacing FRUs. (MIM 802, 105)
C948	A-A1A2 G-A1A2 G-B1A3 G-DE A-A1ZA	60 10 10 10 5	2462200 1616312 1616324 1616119 2453100	Disk B adapter 60MB Digital card 60MB Analog card A3 (60MB HDA) Signal cable	Read Diagnostic failed. Ensure customer PD has been completed. Ensure cable A-A1ZA is properly seated. Run disk problem determination procedures before replacing FRUs. (MIM 802, 105)
C949	A-A1A2 G-A1A2 G-B1A3 G-DE A-A1ZA	60 10 10 10 5	2462200 1616312 1616324 1616119 2453100	Disk B adapter 60MB Digital card 60MB Analog card A3 (60MB HDA) Signal cable	Correct ECC failed. Ensure customer PD has been completed. Ensure cable A-A1ZA is properly seated. Run disk problem determination procedures before replacing FRUs. (MIM 802, 105)
CC35	A-A1P2 A-A1Q2	95 5	2462208 2462210	WS adapter card WS controller card	The work station adapter card failed the controller DBI/DBO test.

A11

<b>SRC</b>	<b>FRU</b>	<b>%</b>	<b>P/N</b>	<b>FRU DESCRIPTION</b>	<b>SERVICE COMMENTS</b>
<b>CC36</b>	<b>A-A1P2 A-A1Q2</b>	<b>95 5</b>	<b>2462208 2462210</b>	<b>WS adapter card WS controller card</b>	The work station adapter card failed its wrap test.
<b>CC37</b>	<b>A-A1P2 A-A1Q2</b>	<b>95 5</b>	<b>2462208 2462210</b>	<b>WS adapter card WS controller card</b>	The work station adapter card failed to reset its check latches.
<b>CC38</b>	<b>A-A1P2 A-A1Q2</b>	<b>95 5</b>	<b>2462208 2462210</b>	<b>WS adapter card WS controller card</b>	The work station adapter card failed its diag mode and prog level test.
<b>CC39</b>	<b>A-A1P2 A-A1Q2</b>	<b>95 5</b>	<b>2462208 2462210</b>	<b>WS adapter card WS controller card</b>	The work station adapter card failed its SERDES test.
<b>CC3A</b>	<b>A-A1P2 A-A1Q2 A-A1G2</b>	<b>85 10 5</b>	<b>2462208 2462210 2462203</b>	<b>WS adapter card WS controller card CSP card</b>	The work station adapter card failed its interrupt program/timer test.
<b>CC3C</b>	<b>A-A1P2 A-A1Q2 A-A1G2</b>	<b>70 25 5</b>	<b>2462208 2462210 2462203</b>	<b>WS adapter card WS controller card CSP card</b>	The work station adapter failed a cycle steal test.
<b>CC3E</b>	<b>A-A1P2 A-A1Q2</b>	<b>95 5</b>	<b>2462208 2462210</b>	<b>WS adapter card WS controller card</b>	The work station adapter failed its hardware interrupt levels test.
<b>CC3F</b>	<b>A-A1P2 Wrkstn WS cbl</b>	<b>80 15 5</b>	<b>2462208 -----</b>	<b>WS adapter card  Twinax/IBM cbl</b>	The work station adapter card failed its port 0 line driver test. Replace A1P2 card first. If this FRU fails to fix the problem, go to the work station device maintenance manual and MIM 710 (Cable Check Procedure) to check the remaining FRUs.

## A12



<b>SRC</b>	<b>FRU</b>	<b>%</b>	<b>P/N</b>	<b>FRU DESCRIPTION</b>	<b>SERVICE COMMENTS</b>
<b>CC40</b>	<b>A-A1P2 Wrkstn WS cbl</b>	<b>80 15 5</b>	<b>2462208  -----</b>	<b>WS adapter card  Twinax/IBM cbl</b>	The work station adapter card failed to poll the system console. Verify that another work station on port 0 is not at same address as console Replace A1P2 card. If this FRU fails to fix the problem, go to the work station device maintenance manual and MIM 710 (Cable Check Procedure) to check the remaining FRUs.
<b>CC41</b>	<b>A-A1P2 Wrkstn WS cbl</b>	<b>60 30 10</b>	<b>2462208  -----</b>	<b>WS adapter card  Twinax/IBM cbl</b>	The work station adapter failed its error checks test. This test needs a working console to run. Verify that two work stations are not at the same address on port 0, then replace A1P2 card.
<b>CC42</b>	<b>A-A1P2 A-A1Q2</b>	<b>80 20</b>	<b>2462208 2462210</b>	<b>WS adapter card WS controller card</b>	The work station adapter card failed the cycle steal register test.
<b>CC43</b>	<b>A-A1P2 A-A1Q2</b>	<b>80 20</b>	<b>2462208 2462210</b>	<b>WS adapter card WS controller card</b>	The work station adapter card failed its hardware interrupt test.
<b>CC44</b>	<b>A-A1Q2 A-A1P2</b>	<b>80 20</b>	<b>2462210 2462208</b>	<b>WS controller card WS adapter card</b>	The work station adapter card failed to poll the system console.

SRC	FRU	%	P/N	FRU DESCRIPTION	SERVICE COMMENTS
CC46	A-A1Q2	95	2462208 2462210	WS adapter card WS controller card	A1Q2 may have either out board controller (expansion system) or work station adapter (base system), depending on system configuration.
CC4A	A-A1P2 Wrkstn WS cbl	80 15 5	2462208 -----	WS adapter card  Twinax/IBM cbl	The work station adapter card failed its port 1-3 line drive test. Replace A-A1P2 first. If this FRU fails to fix the problem, go to the work station device maintenance manual and MIM 710 (Cable Check Procedure) to check the remaining FRUs.
CC51	A-A1P2	99	2462208	WS adapter card	The work station adapter card failed it RAM test.
CC52	A-A1P2	99	2462208	WS adapter card	The work station adapter card failed its cycle steal block length test.
CC60	Base -- A-A1Q2 Wrkstn WS cbl  Exp --- A-A1P2 Wrkstn WS cbl	80 15 5  80 15 5	2462208 -----  2462208 -----	WS adapter card  Twinax/IBM cbl  WS adapter card  Twinax/IBM cbl	Port 0 failed. The work station adapter card failed its hardware interrupt levels test. Replace A-A1Q2 card (base work station) or A-A1P2 (expansion work station feature). If the card fails to fix the problem, go to the Work Station Device Maintenance manual and MIM 710 (Cable Check procedure) to check the other FRUs.

## A14

SRC	FRU	%	P/N	FRU DESCRIPTION	SERVICE COMMENTS
CC61	Base --	60			The work station failed its hardware interrupt level test.
	Display	30	-----	Twinax/IBM cbl	
	WS cbl	10	2462208	WS adapter card	
	Exp ---				
	Display	60			
	WS cbl	30	-----	Twinax/IBM cbl	
	A-A1P2	7	2462208	WS adapter card	
	A-A1Q2	3	2462210	WS controller card	
CC62	Base --	80	2462208	WS adapter card	The work station adapter card failed its hardware interrupt levels test. Replace A-A1Q2 card (base work station) or A-A1P2 (expansion system). If the FRUs fail to fix the problem, go to MIM 706 (Network Analysis Procedure).
	A-A1Q2	15			
	Wrkstn	5	-----	Twinax/IBM cbl	
	WS cbl				
	Exp ---				
	A-A1P2	80	2462208	WS adapter card	
	Wrkstn	15			
	WS cbl	5	-----	Twinax/IBM cbl	
CC63	Wrkstn	75		Twinax/IBM cbl	Display stations and/or printers on a port are not responding. Go to the device maintenance manual (s) and MIM 710 (Cable Check Procedure). Use MIM 706 (Network Analysis Procedure) to assist in the problem.
	WS cbl	25	-----		
CC65	A-A1Q2	95	2462208	WS adapter card	The work station adapter card failed the controller DBI/DBO test.
	A-A1G2	5	2462203	CSP card	
CC66	A-A1Q2	95	2462208	WS adapter card	The work station adapter card failed its wrap test.
	A-A1G2	5	2462203	CSP card	
CC67	A-A1Q2	95	2462208	WS adapter card	The work station adapter card failed to reset its check latches.
	A-A1G2	5	2462203	CSP card	

<b>SRC</b>	<b>FRU</b>	<b>%</b>	<b>P/N</b>	<b>FRU DESCRIPTION</b>	<b>SERVICE COMMENTS</b>
<b>CC68</b>	<b>A-A1Q2 A-A1G2</b>	<b>95 5</b>	<b>2462208 2462203</b>	<b>WS adapter card CSP card</b>	The work station adapter card failed its diag mode and prog level test.
<b>CC69</b>	<b>A-A1Q2 A-A1G2</b>	<b>95 5</b>	<b>2462208 2462203</b>	<b>WS adapter card CSP card</b>	The work station adapter card failed its SERDES test.
<b>CC6A</b>	<b>A-A1Q2 A-A1G2</b>	<b>95 5</b>	<b>2462208 2462203</b>	<b>WS adapter card CSP card</b>	The work station adapter card failed its interrupt program/timer test.
<b>CC6C</b>	<b>A-A1Q2 A-A1G2</b>	<b>75 25</b>	<b>2462208 2462203</b>	<b>WS adapter card CSP card</b>	The work station adapter failed a cycle steal test.
<b>CC6E</b>	<b>A-A1Q2 A-A1G2</b>	<b>95 5</b>	<b>2462208 2462203</b>	<b>WS adapter card CSP card</b>	The work station adapter hardware interrupt levels test.
<b>CC6F</b>	<b>A-A1Q2 Wrkstn WS cbl</b>	<b>80 15 5</b>	<b>2462208 -----</b>	<b>WS adapter card Twinax/IBM cbl</b>	The work station adapter card failed its port 0 line driver check. Replace A1Q2 card first. If this FRU fails to fix the problem, go to the work station device maintenance manual and MIM 710 (Cable Check Procedure) to check the remaining port 0 FRUs.

## A16

<b>SRC</b>	<b>FRU</b>	<b>%</b>	<b>P/N</b>	<b>FRU DESCRIPTION</b>	<b>SERVICE COMMENTS</b>
<b>CC70</b>	<b>A-A1Q2 Wrkstn WS cbl</b>	<b>80 15 5</b>	<b>2462208 -----</b>	<b>WS adapter card  Twinax/IBM cbl</b>	The work station adapter card failed to poll the system console. Verify that another work station on port 0 is not at same address as console. Replace A1Q2 card. If this fails to fix the problem, go to the work station device maintenance manual and MIM 710 (Cable Check Procedure) to check the remaining port 0 FRUs.
<b>CC71</b>	<b>A-A1Q2 Wrkstn</b>	<b>70 30</b>	<b>2462208</b>	<b>WS adapter card</b>	The work station adapter failed its error checks test. This test needs a working console to run. Verify that two work stations are not at the same address on port 0. Replace A1Q2 card first. If the adapter card fails to fix the problem, go to the console maintenance manual.
<b>CC72</b>	<b>A-A1Q2 A-A1G2</b>	<b>80 20</b>	<b>2462208 2462203</b>	<b>WS adapter card CSP card</b>	The work station adapter card failed the cycle steal register test.

**A17**

SRC	FRU	%	P/N	FRU DESCRIPTION	SERVICE COMMENTS
CC7A	A-A1Q2	80	2462208 2462210	WS adapter card WS controller card	The work station adapter card failed its port 1-3 line drive test. Replace A-A1P2 first. If this FRU fails to fix the problem, go to the work station device maintenance manual and MIM 710 (Cable Check Procedure) to check the remaining FRUs.
	Wrkstn WS cbl	15 5	-----	Twinax/IBM cbl	
CC81	A-A1Q2	99	2462208	WS adapter card	The work station adapter card failed it RAM test.
CC82	A-A1Q2	99	2462208	WS adapter card	The work station adapter card failed its cycle steal block length test.
Cd10	A-A1D2	90	2462201	DSA1 card	Buffered adapter wraps failed.
	A-A1G2	10	2462203	CSP card	
Cd30	A-A1D2	93	2462201	DSA1 card	Diskette DLC wraps failed. See MIM 602 for isolating diskette drive problems. DCC = drive control card.
	DCC	4	4240728	Drive Control card	
	A-A1G2	2	2462203	CSP card	
	A-A1YB	1	2453100	Signal cable	
Cd81	A-A1C2	70	2462209	DSA2 card	Ensure Top Card Connector across positions A2,B2 and C2 is properly seated.
	A-A1A2	10	2462200	Disk B adapter	
	A-A1B2	10	2462200	Disk A adapter	
Cd82	A-A1C2	70	2462209	DSA2 card	Ensure Top Card Connector across positions A2,B2 and C2 is properly seated.
	A-A1A2	10	2462200	Disk B adapter	
	A-A1B2	10	2462200	Disk A adapter	
Cd83	A-A1C2	70	2462209	DSA2 card	Ensure Top Card Connector across positions A2,B2 and C2 is properly seated.
	A-A1A2	10	2462200	Disk B adapter	
	A-A1B2	10	2462200	Disk A adapter	
Cd84	A-A1C2	70	2462209	DSA2 card	Ensure Top Card Connector across positions A2,B2 and C2 is properly seated.
	A-A1A2	10	2462200	Disk B adapter	
	A-A1B2	10	2462200	Disk A adapter	

## A18

SRC	FRU	%	P/N	FRU DESCRIPTION	SERVICE COMMENTS
Cd85	A-A1C2	70	2462209	DSA2 card	Ensure Top Card Connector across positions A2,B2 and C2 is properly seated.
	A-A1A2	10	2462200	Disk B adapter	
	A-A1B2	10	2462200	Disk A adapter	
Cd86	A-A1C2	70	2462209	DSA2 card	Ensure Top Card Connector across positions A2,B2 and C2 is properly seated.
	A-A1A2	10	2462200	Disk B adapter	
	A-A1B2	10	2462200	Disk A adapter	
Cd8F	A-A1C2	70	2462209	DSA2 card	Ensure Top Card Connector across positions A2,B2 and C2 is properly seated.
	A-A1A2	10	2462200	Disk B adapter	
	A-A1B2	10	2462200	Disk A adapter	
CF01					01 - Initialization wrap error
CF61	A-A1Q2	60	2462208	WS adapter card	61 - w/s; MLCA IPL Mode 1 FF00. If SRC 2018 appears, replace A-A1T2. If IPL completes, go to MIM 915.
			2462210	WS controller card	
	A-A1T2	40	2462210	ELCA controller card	
			2462211	SLCA pass-thru card	
CF65	A-A1D2	99	2462201	DSA1 card	65 - disk/dskt DSA.
CF67	A-A1C2	99	2462209	DSA2 card	67 - disk/DSA 2.
CF82	A-A1U2	23	2462212	CSEIA card	82 - communications IPL Mode 1 FF00. Go to MIM 910 and run basic diagnostic test on all communication lines.
			2462214	CSDDA card	
			2462213	CSX21 card	
			2462215	CSV35 card	
	A-A1V2	23	2462212	CSEIA card	
			2462214	CSDDA card	
			2462213	CSX21 card	
			2462215	CSV35 card	
	A-A1W2	23	2462212	CSEIA card	
			2462214	CSDDA card	
			2462213	CSX21 card	
			2462215	CSV35 card	
	A-A1X2	23	2462212	CSEIA card	
			2462214	CSDDA card	
			2462213	CSX21 card	
			2462215	CSV35 card	
A-A1T2	7	2462210	ELCA controller card		
		2462211	SLCA pass-thru card		

SRC	FRU	%	P/N	FRU DESCRIPTION	SERVICE COMMENTS
CFA2					A2 - 21ED disk IPL DSKT03 Mode 3 0000
CFC2					CFC2 - work station IPL DSKT03 Mode 3 0000
CFd2	A-A1D2 DCC A-A1G2 A-A1YB	93 4 2 1	2462201 4240728 2462203 2453100	DSA1 card Drive Control card CSP card Signal cable	Diskette DLC wraps failed. See MIM 602 for isolating diskette drive problems. DCC = drive control card.
d346	A-A1H2 A-A1J2 A-A1N2 A-A1G2 A-A1	50 30 10 30 1	2462204 2462205 2462261 2462203 2453968	MSP Control card MSP Data flow card MS card 256k CSP card A1 Board	CSIPL 3rd load.  A1N2 is the CSP.SS card.
d444	A-A1J2 A-A1N2 A-A1H2 A-A1	60 30 7 1	2462205 2462261 2462204 2453968	MSP Data flow card MS card 256k MSP Control card A1 Board	CSIPL 3rd load.
d475	A-A1N2 A-A1J2 A-A1	60 39 1	2462261 2462205 2453968	MS card 256k MSP Data flow card A1 Board	CSIPL 3rd load.
d476	A-A1N2 A-A1J2 A-A1	60 38 1	2462261 2462205 2453968	MS card 256k MSP Data flow card A1 Board	CSIPL 3rd load.
d477	MS A-A1J2 A-A1H2 A-A1	73 20 5 1	2462261 2462205 2462204 2453968	MS cd 256k MSP Data flow card MSP Control card A1 Board	CSIPL 3rd load.  MS = main storage Go to MIM 160.
d480	A-A1J2 A-A1H2 A-A1	20 5 1	2462205 2462204 2453968	MSP Data flow card MSP Control card A1 Board	
d483	MS A-A1J2 A-A1	74 24 1	2462261 2462205 2453968	MS cd 256k MSP Data flow card A1 Board	CSIPL 3rd load.  MS = main storage Go to MIM 160.

B2



SRC	FRU	%	P/N	FRU DESCRIPTION	SERVICE COMMENTS
d484	MS A-A1J2 A-A1	74 24 1	2462261 2462205 2453968	MS cd 256k MSP Data flow card A1 Board	CSIPL 3rd load.  MS = main storage Go to MIM 160.
d485	MS A-A1J2	74 25	2462261 2462205	MS cd 256k MSP Data flow card	CSIPL 3rd load.  MS = main storage Go to MIM 160.
d486	A-A1N2 A-A1J2 A-A1	74 24 1	2462261 2462205 2453968	MS card 256k MSP Data flow card A1 Board	CSIPL 3rd load.
d488	A-A1N2 A-A1J2 A-A1	74 24 1	2462261 2462205 2453968	MS card 256k MSP Data flow card A1 Board	CSIPL 3rd load.
d489	A-A1J2 A-A1N2 A-A1	74 24 1	2462205 2462261 2453968	MSP Data flow card MS card 256k A1 Board	CSIPL 3rd load.
d492	A-A1J2 A-A1N2 A-A1H2 A-A1	60 20 19 1	2462205 2462261 2462204 2453968	MSP Data flow card MS card 256k MSP Control card A1 Board	CSIPL 3rd load.
d493	A-A1N2 A-A1J2 A-A1	75 24 1	2462261 2462205 2453968	MS card 256k MSP Data flow card A1 Board	CSIPL 3rd load.
d494	MS A-A1J2 A-A1	75 24 1	2462261 2462205 2453968	MS cd 256k MSP Data flow card A1 Board	CSIPL 3rd load. MS = main storage Go to MIM 160.
d497	A-A1N2 A-A1J2 A-A1	74 24 1	2462261 2462205 2453968	MS card 256k MSP Data flow card A1 Board	CSIPL 3rd load.
d498	A-A1N2 A-A1J2 A-A1	60 38 1	2462261 2462205 2453968	MS card 256k MSP Data flow card A1 Board	CSIPL 3rd load.
d499	A-A1N2 A-A1J2 A-A1	59 40 1	2462261 2462205 2453968	MS card 256k MSP Data flow card A1 Board	CSIPL 3rd load.

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SRC	FRU	%	P/N	FRU DESCRIPTION	SERVICE COMMENTS
d501	A-A1N2	99	2462261	MS card 256k	CSIPL 3rd load.
d502	A-A1M2	99	2462261	MS card 256k	CSIPL 3rd load.
d504	A-A1L2	99	2462261	MS card 256k	CSIPL 3rd load.
d508	A-A1K2	99	2462261	MS card 256k	CSIPL 3rd load.
d511	A-A1M2	55	2462261	MS card 256k	CSIPL 3rd load.
	A-A1J2	45	2462205	MSP Data flow card	
d531	A-A1J2	40	2462205	MSP Data flow card	
	A-A1H2	40	2462204	MSP Control card	
	A-A1N2	20	2462261	MS card 256k	
d678	A-A1N2	73	2462261	MS card 256k	CSIPL 3rd load.
	A-A1J2	20	2462205	MSP Data flow card	MS = main storage
	A-A1M2	5	2462206	MS card 128k	Go to MIM 160.
			2462261	MS card 256k	
	A-A1	1	2453968	A1 Board	
d695	MS	74	2462206	MS card 128k	CSIPL 3rd load.
			2462261	MS cd 256k	MS = main storage
	A-A1J2	24	2462205	MSP Data flow card	Go to MIM 160.
	A-A1	1	2453968	A1 Board	
d940	A-A1G2	98	2462203	CSP card	CSIPL 3rd load. A-A1G2 is a CSP/SS card.
d950	A-A1G2	33	2462203	CSP card	CSIPL 3rd load.
	A-A1J2	33	2462205	MSP Data flow card	
d970	A-A1G2	33	2462203	CSP card	CSIPL 3rd load.
	A-A1H2	33	2462204	MSP Control card	
	A-A1J2	33	2462205	MSP Data flow card	
dAXX					CSIPL 3rd load. Used in step mode and in stop on errors to indicate the TU XX just executed.
dC00	A-A1J2	50	2462205	MSP Data flow card	CSIPL 3rd load.
	A-A1H2	30	2462204	MSP Control card	
	A-A1G2	18	2462203	CSP card	
	A-A1	1	2453968	A1 Board	

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SRC	FRU	%	P/N	FRU DESCRIPTION	SERVICE COMMENTS
dC02	A-A1G2	55	2462203	CSP card	CSIPL 3rd load.
	A-A1J2	30	2462205	MSP Data flow card	
	A-A1H2	15	2462204	MSP Control card	
	A-A1	1	2453968	A1 Board	
dC03	A-A1J2	77	2462205	MSP Data flow card	CSIPL 3rd load.
	A-A1G2	11	2462203	CSP card	
	A-A1H2	10	2462204	MSP Control card	
	A-A1	1	2453968	A1 Board	
dC06	A-A1J2	40	2462205	MSP Data flow card	CSIPL 3rd load.
	A-A1H2	30	2462204	MSP Control card	
	A-A1G2	27	2462203	CSP card	
	A-A1	1	2453968	A1 Board	
dC07	A-A1J2	77	2462205	MSP Data flow card	CSIPL 3rd load.
	A-A1G2	11	2462203	CSP card	
	A-A1H2	10	2462204	MSP Control card	
	A-A1	1	2453968	A1 Board	
dC08	A-A1J2	50	2462205	MSP Data flow card	CSIPL 3rd load.
	A-A1H2	30	2462204	MSP Control card	
	A-A1G2	17	2462203	CSP card	
	A-A1	1	2453968	A1 Board	
dC09	A-A1J2	50	2462205	MSP Data flow card	CSIPL 3rd load.
	A-A1H2	40	2462204	MSP Control card	
	A-A1G2	8	2462203	CSP card	
	A-A1	1	2453968	A1 Board	
dC10	A-A1J2	50	2462205	MSP Data flow card	CSIPL 3rd load.
	A-A1H2	35	2462204	MSP Control card	
	A-A1G2	12	2462203	CSP card	
	A-A1	1	2453968	A1 Board	
dC12	A-A1H2	50	2462204	MSP Control card	CSIPL 3rd load.
	A-A1J2	48	2462205	MSP Data flow card	
	A-A1G2	2	2462203	CSP card	
dC14	A-A1H2	60	2462204	MSP Control card	CSIPL 3rd load.
	A-A1J2	30	2462205	MSP Data flow card	
	A-A1G2	7	2462203	CSP card	
	A-A1	1	2453968	A1 Board	

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SRC	FRU	%	P/N	FRU DESCRIPTION	SERVICE COMMENTS
dC16	A-A1H2 A-A1J2	60 38	2462204 2462205	MSP Control card MSP Data flow card	CSIPL 3rd load.
dC18	A-A1H2 A-A1J2	50 48	2462204 2462205	MSP Control card MSP Data flow card	CSIPL 3rd load.
dC20	A-A1H2 A-A1J2	55 43	2462204 2462205	MSP Control card MSP Data flow card	CSIPL 3rd load.
dC22	A-A1H2 A-A1J2 A-A1G2 A-A1	50 40 7 1	2462204 2462205 2462203 2453968	MSP Control card MSP Data flow card CSP card A1 Board	CSIPL 3rd load.
dC24	A-A1J2 A-A1H2 A-A1G2 A-A1	60 30 7 1	2462205 2462204 2462203 2453968	MSP Data flow card MSP Control card CSP card A1 Board	CSIPL 3rd load.
dC26	A-A1H2 A-A1J2	60 38	2462204 2462205	MSP Control card MSP Data flow card	CSIPL 3rd load.
dC28	A-A1J2 A-A1H2 A-A1G2 A-A1	70 24 3 1	2462205 2462204 2462203 2453968	MSP Data flow card MSP Control card CSP card A1 Board	CSIPL 3rd load.
dC29	A-A1J2 A-A1H2 A-A1G2 A-A1	44 34 20 1	2462205 2462204 2462203 2453968	MSP Data flow card MSP Control card CSP card A1 Board	CSIPL 3rd load.
dC30	A-A1G2 A-A1H2 A-A1	70 28 1	2462203 2462204 2453968	CSP card MSP Control card A1 Board	CSIPL 3rd load.
dC31	A-A1J2 A-A1H2	70 28	2462205 2462204	MSP Data flow card MSP Control card	CSIPL 3rd load.
dC32	A-A1J2 A-A1H2	70 28	2462205 2462204	MSP Data flow card MSP Control card	CSIPL 3rd load.
dC33	A-A1H2 A-A1J2 A-A1F2 A-A1	40 40 17 1	2462204 2462205 2462202 2453968	MSP Control card MSP Data flow card Control panel card A1 Board	CSIPL 3rd load. The system contains a CSP/SS.

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SRC	FRU	%	P/N	FRU DESCRIPTION	SERVICE COMMENTS
dC34	A-A1J2	50	2462205	MSP Data flow card	CSIPL 3rd load.
	A-A1H2	30	2462204	MSP Control card	
	A-A1G2	17	2462203	CSP card	
	A-A1	1	2453968	A1 Board	
dC35	A-A1G2	69	2462203	CSP card	CSIPL 3rd load.
	A-A1H2	30	2462204	MSP Control card	
dC36	A-A1J2	70	2462205	MSP Data flow card	CSIPL 3rd load.
	A-A1H2	28	2462204	MSP Control card	
dC37	A-A1J2	45	2462205	MSP Data flow card	CSIPL 3rd load.
	A-A1H2	35	2462204	MSP Control card	
	A-A1G2	18	2462203	CSP card	
	A-A1	1	2453968	A1 Board	
dC40	A-A1J2	60	2462205	MSP Data flow card	CSIPL 3rd load.
	A-A1H2	38	2462204	MSP Control card	
dC42	A-A1J2	60	2462205	MSP Data flow card	CSIPL 3rd load.
	A-A1H2	38	2462204	MSP Control card	
dC44	A-A1J2	60	2462205	MSP Data flow card	CSIPL 3rd load. If MS is at error the failure is a 128 Kb card.
	A-A1N2	30	2462206	MS card 128k	
	A-A1H2	7	2462204	MSP Control card	
	A-A1	1	2453968	A1 Board	
dC46	A-A1H2	50	2462204	MSP Control card	CSIPL 3rd load.
	A-A1J2	30	2462205	MSP Data flow card	
	A-A1N2	10	2462206	MS card 128k	
	A-A1G2	7	2462203	CSP card	
	A-A1	1	2453968	A1 Board	
dC48	A-A1H2	60	2462204	MSP Control card	CSIPL 3rd load.
	A-A1J2	36	2462205	MSP Data flow card	
	A-A1G2	1	2462203	CSP card	
	A-A1	1	2453968	A1 Board	
dC50	A-A1H2	70	2462204	MSP Control card	CSIPL 3rd load.
	A-A1J2	28	2462205	MSP Data flow card	
dC52	A-A1H2	70	2462204	MSP Control card	CSIPL 3rd load.
	A-A1J2	28	2462205	MSP Data flow card	
dC54	A-A1H2	60	2462204	MSP Control card	CSIPL 3rd load.
	A-A1J2	38	2462205	MSP Data flow card	

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SRC	FRU	%	P/N	FRU DESCRIPTION	SERVICE COMMENTS
dC56	A-A1H2	60	2462204	MSP Control card	CSIPL 3rd load.
	A-A1J2	38	2462205	MSP Data flow card	
dC58	A-A1J2	60	2462205	MSP Data flow card	CSIPL 3rd load.
	A-A1H2	38	2462204	MSP Control card	
dC60	A-A1H2	50	2462204	MSP Control card	CSIPL 3rd load.
	A-A1J2	48	2462205	MSP Data flow card	
dC62	A-A1H2	60	2462204	MSP Control card	CSIPL 3rd load.
	A-A1J2	38	2462205	MSP Data flow card	
dC63	A-A1H2	60	2462204	MSP Control card	CSIPL 3rd load.
	A-A1J2	38	2462205	MSP Data flow card	
dC64	A-A1J2	60	2462205	MSP Data flow card	CSIPL 3rd load. A1N2 is 128 K storage card.
	A-A1H2	28	2462204	MSP Control card	
	A-A1N2	10	2462206	MS card 128k	
dC65	A-A1H2	60	2462204	MSP Control card	CSIPL 3rd load.
	A-A1J2	38	2462205	MSP Data flow card	
dC66	A-A1H2	60	2462204	MSP Control card	CSIPL 3rd load.
	A-A1J2	38	2462205	MSP Data flow card	
dC67	A-A1J2	60	2462205	MSP Data flow card	CSIPL 3rd load.
	A-A1H2	38	2462204	MSP Control card	
dC68	A-A1J2	60	2462205	MSP Data flow card	CSIPL 3rd load.
	A-A1H2	30	2462204	MSP Control card	
	A-A1G2	6	2462203	CSP card	
	A-A1F2	2	2462202	Control panel card	
dC75	MS	73	2462206	MS card 128k	A1N2 is 128 K storage card. CSIPL 3rd load. Go to MIM 160.
	A-A1J2	20	2462205	MSP Data flow card	
	A-A1H2	5	2462204	MSP Control card	
	A-A1	1	2453968	A1 Board	
dC79	MS	73	2462206	MS card 128k	A1N2 is 128 K storage card. CSIPL 3rd load. Go to MIM 160.
	A-A1J2	20	2462205	MSP Data flow card	
	A-A1H2	5	2462204	MSP Control card	
	A-A1	1	2453968	A1 Board	
dC81	A-A1N2	73	2462206	MS card 128k	A1N2 is 128 K storage card. CSIPL 3rd load.
	A-A1J2	20	2462205	MSP Data flow card	
	A-A1H2	5	2462204	MSP Control card	
	A-A1	1	2453968	A1 Board	

## B8

SRC	FRU	%	P/N	FRU DESCRIPTION	SERVICE COMMENTS
dC82	A-A1J2 A-A1H2 A-A1G2 A-A1	60 27 10 1	2462205 2462204 2462203 2453968	MSP Data flow card MSP Control card CSP card A1 Board	CSIPL 3rd load.
dC83	MS A-A1J2 A-A1	74 24 2	2462206 2462205 2453968	MS card 128k MSP Data flow card A1 Board	CSIPL 3rd load. If MS is at error the failing card is a 128 Kb storage card. Go to MIM 160.
dC84	MS A-A1J2 A-A1	74 24 1	2462206 2462205 2453968	MS card 128k MSP Data flow card A1 Board	CSIPL 3rd load. If MS is at error the failing card is a 128 Kb storage card. Go to MIM 160.
dC85	MS A-A1J2	74 25	2462206 2462205	MS card 128k MSP Data flow card	CSIPL 3rd load. If MS is at error the failing card is a 128 Kb storage card. Go to MIM 160.
dC86	A-A1N2 A-A1J2 A-A1	74 24 1	2462206 2462205 2453968	MS card 128k MSP Data flow card A1 Board	A1N2 is 128 K storage card. CSIPL 3rd load. Go to MIM 160.
dC87	MS A-A1J2 A-A1	74 24 1	2462206 2462205 2453968	MS card 128k MSP Data flow card A1 Board	A1N2 is 128 K storage card. CSIPL 3rd load. Go to MIM 160.
dC88	A-A1N2 A-A1J2 A-A1	74 24 1	2462206 2462205 2453968	MS card 128k MSP Data flow card A1 Board	A1N2 is 128 K storage card. CSIPL 3rd load.
dC89	MS A-A1J2 A-A1H2 A-A1	73 20 5 1	2462206 2462205 2462204 2453968	MS card 128k MSP Data flow card MSP Control card A1 Board	A1N2 is 128 K storage card. CSIPL 3rd load. Go to MIM 160.
dC92	MS A-A1J2 A-A1H2 A-A1	73 20 5 1	2462206 2462205 2462204 2453968	MS card 128k MSP Data flow card MSP Control card A1 Board	A1N2 is 128 K storage card. CSIPL 3rd load. Go to MIM 160.
dC93	A-A1N2 A-A1J2	75 24	2462206 2462205	MS card 128k MSP Data flow card	A1N2 IS 128 K storage card. CSIPL 3rd load. Go to MIM 160.

SRC	FRU	%	P/N	FRU DESCRIPTION	SERVICE COMMENTS
dC96	MS	73	2462206	MS card 128k	A1N2 is 128 K storage card. CSIPL 3rd load. Go to MIM 160. *
	A-A1J2	20	2462205	MSP Data flow card	
	A-A1H2	5	2462204	MSP Control card	
	A-A1	1	2453968	A1 Board	
dC97	MS	73	2462206	MS card 128k	A1N2 is 128 K storage card. CSIPL 3rd load. Go to MIM 160.
	A-A1J2	20	2462205	MSP Data flow card	
	A-A1H2	5	2462204	MSP Control card	
	A-A1	1	2453968	A1 Board	
dC98	MS	73	2462206	MS card 128k	A1N2 is 128 K storage card. CSIPL 3rd load. Go to MIM 160.
	A-A1J2	20	2462205	MSP Data flow card	
	A-A1H2	5	2462204	MSP Control card	
	A-A1	1	2453968	A1 Board	
dC99	MS	73	2462206	MS card 128k	A1N2 is 128 K storage card. CSIPL 3rd load. Go to MIM 160.
	A-A1J2	20	2462205	MSP Data flow card	
	A-A1H2	5	2462204	MSP Control card	
	A-A1	1	2453968	A1 Board	
dd01	A-A1N2	90	2462206	MS card 128k	128 K ECC storage card. CSIPL 3rd load.
	A-A1J2	9	2462205	MSP Data flow card	
dd02	A-A1M2	99	2462206	MS card 128k	128 K ECC storage card. CSIPL 3rd load.
dd04	A-A1L2	99	2462206	MS card 128k	
dd08	A-A1K2	99	2462206	MS card 128k	
dd10	A-A1J2	98	2462205	MSP Data flow card	CSIPL 3rd load. If replacing FRU does not correct the problem, check to see that the UDT is correct.
dd11	A-A1N2	55	2462206	MS card 128k	CSIPL 3rd load. A-A1N2 is a 128 kb storage card.
	A-A1J2	45	2462205	MSP Data flow card	
dd20	A-A1H2	98	2462204	MSP Control card	CSIPL 3rd load.
dd30	A-A1H2	49	2462204	MSP Control card	CSIPL 3rd load.
	A-A1J2	49	2462205	MSP Data flow card	
dd31	A-A1J2	60	2462205	MSP Data flow card	A1N2 is 128 K storage card.
	A-A1H2	25	2462204	MSP Control card	
	A-A1N2	14	2462206	MS card 128k	

## B10



SRC	FRU	%	P/N	FRU DESCRIPTION	SERVICE COMMENTS
dd40	A-A1F2	98	2462202	Control panel card	CSIPL 3rd load.
dd50	A-A1L2	55	2462206	MS card 128k	CSIPL 3rd load.
	A-A1J2	45	2462205	MSP Data flow card	
dd70	A-A1F2	33	2462202	Control panel card	CSIPL 3rd load.
	A-A1H2	33	2462204	MSP Control card	
	A-A1J2	33	2462205	MSP Data flow card	
dEXX					CSIPL 3rd load. Test unit XX is not in the load module.
dF90					An unexpected failure occurred before or during the disk load of DCP. Customization may be wrong. Reload microcode (MIM 324). If that doesn't fix the problem, run disk problem determination procedures. (MIM 802, 105)
dF91	A-A1B2	40	2462200	Disk A adapter	--Disk Loader--
	A-A1C2/	30	2462209	DSA2 card	Severe hardware error. (disk load of DCP)
	A-A1D2		2462201	DSA1 card	Ensure cable A-A1YJ is properly seated.
	F-A1A2	10	1616312	30MB Digital card	Run disk problem determination procedures before replacing FRUs.
			1616312	60MB Digital card	If A-A1C2 FRU is not installed, replace A-A1D2.
	F-B1A3	5	4044272	30MB Analog card	(MIM 802, 105)
			1616324	60MB Analog card	
	A-A1YJ	5	2453100	Signal cable	
	F-DE	2	1616699	A2 (30MB HDA)	
			1616119	A3 (60MB HDA)	

B11

<b>SRC</b>	<b>FRU</b>	<b>%</b>	<b>P/N</b>	<b>FRU DESCRIPTION</b>	<b>SERVICE COMMENTS</b>
dF92	A-A1C2/ A-A1D2 A-A1B2 A-A1YJ	70 25 5	2462209 2462201 2462200 2453100	DSA2 card DSA1 card Disk A adapter Signal cable	--Disk Loader-- DSA error. (disk load of DCP) Ensure cable A-A1YJ is properly seated. Run disk problem determination procedures before replacing FRUs. If A-A1C2 FRU is not installed, replace A-A1D2. (MIM 802, 105)
dF93	A-A1C2/ A-A1D2 A-A1B2 A-A1YJ F-A1A2	45 35 5 5	2462209 2462201 2462200 2453100 1616312 1616312	DSA2 card DSA1 card Disk A adapter Signal cable 30MB Digital card 60MB Digital card	--Disk Loader-- Interrupt timeout. (disk load of DCP) Ensure cable A-A1YJ is properly seated. Run disk problem determination procedures before replacing FRUs. If A-A1C2 FRU is not installed, replace A-A1D2. (MIM 802, 105)

## B12

<b>SRC</b>	<b>FRU</b>	<b>%</b>	<b>P/N</b>	<b>FRU DESCRIPTION</b>	<b>SERVICE COMMENTS</b>
dF94	A-A1B2 A-A1YJ	75 15	2462200 2453100	Disk A adapter Signal cable	--Disk Loader-- ECC error. Ensure cable A-A1YJ is properly seated. (disk load of DCP) Media or Data problem. Run pack analysis (MIM 332, 338) - follow recommended actions. If that doesn't fix - reload microcode (MIM 324). If that doesn't fix the problem, run disk problem determination procedures before replacing FRUs. (MIM 802, 105)
dF95	A-A1B2 A-A1YJ	75 15	2462200 2453100	Disk A adapter Signal cable	--Disk Loader-- (disk load of DCP) Ensure cable A-A1YJ is properly seated. Run pack analysis (MIM 332, 338) - follow recommended actions. If that doesn't fix the problem, run disk problem determination procedures before replacing FRUs. (MIM 802, 105)

SRC	FRU	%	P/N	FRU DESCRIPTION	SERVICE COMMENTS
dF96					-- Disk Loader -- Completed DCP load w/o detected error. Indicates failure in execution of code from load. Customization may be wrong. Reload microcode. If that doesn't fix the problem, run disk problem determination procedures before replacing FRUs. (MIM 802, 105)
dFFA					CSIPL 3rd load. MSP cannot be initialized with input option FF00.
dFFb					CSIPL 3rd load. Configure error class.
dFFC	A-A1D2 A-A1B2	20 20	2462201 2462200	DSA1 card Disk A adapter	CSIPL 3rd load. This code is generated when an error that can not be identified occurs while loading DCP from disk or diskette.
dFFd					CSIPL 3rd load. MSP TU CS length too much.
dFFE					CSIPL 3rd load. Not a valid MSP MDI rule found.
dFFF					CSIPL 3rd load. Unknown error condition while running MSP IPL diagnostics.

**B14**

SRC	FRU	%	P/N	FRU DESCRIPTION	SERVICE COMMENTS
E000	A-A1F2 A-A1G2	99 1	2462202 2462203	Control panel card CSP card	The console, program and processor led's are all on after the system is powered on. This condition indicates that the panel card failed power on diagnostics.
E002	A-A1G2 A-A1F2	90 10	2462203 2462202	CSP card Control panel card	Bad parity was detected on data read from the CSP.
E003	A-A1F2 A-A1G2	90 10	2462202 2462203	Control panel card CSP card	Bad parity was detected on data written to the CSP.
E005	A-A1G2 A-A1F2	90 10	2462203 2462202	CSP card Control panel card	CSP stopped, for no apparent reason (that is, WR2A did not include a valid SPC instruction and the CSP is not processor checked.
E011	A-A1G2 A-A1F2	90 10	2462203 2462202	CSP card Control panel card	CSP active during PCB sense RCB.
E012	A-A1G2 A-A1F2	90 10	2462203 2462202	CSP card Control panel card	CSP active during PCB sense LSR.
E013	A-A1G2 A-A1F2	90 10	2462203 2462202	CSP card Control panel card	CSP/SS remained active longer than 510 millisecond during a Disable Cycle Steals PCB command.
E016	A-A1G2 A-A1F2	90 10	2462203 2462202	CSP card Control panel card	CSP/SS active during "Sense Channel Error Byte" command.
E017	A-A1G2 A-A1F2	90 10	2462203 2462202	CSP card Control panel card	CSP/SS active during "Sense Channel Register" command.
E018	A-A1G2 A-A1F2	90 10	2462203 2462202	CSP card Control panel card	CSP/SS active during PCB "Set Machine Check" command.

**B15**

SRC	FRU	%	P/N	FRU DESCRIPTION	SERVICE COMMENTS
E019	A-A1G2 A-A1F2	90 10	2462203 2462202	CSP card Control panel card	CSP/SS active during PCB "Load SDR" command.
E01A	A-A1G2 A-A1F2	90 10	2462203 2462202	CSP card Control panel card	CSP/SS active during PCB "Load SAR" command.
E01C	A-A1G2 A-A1F2 Pwr Sup DC Cbl	90 5 4 1	2462203 2462202 5561773 5561774 2453107	CSP card Control panel card Pwr sup(100 Volt) Pwr sup(200 Volt) DC Distribution Cable	CSP/SS active during PCB "Load MOR" command.
E01E	A-A1G2 A-A1F2	90 10	2462203 2462202	CSP card Control panel card	CSP/SS active during PCB "Execute MOR" command.
E01F	A-A1G2 A-A1F2	90 10	2462203 2462202	CSP card Control panel card	CSP/SS active during PCB "Sense SDR" command.
E021	A-A1F2 A-A1G2	90 10	2462202 2462203	Control panel card CSP card	Self-test failed ROS 2 (CSP microcode checksum test.
E022	A-A1G2 A-A1F2	90 10	2462203 2462202	CSP card Control panel card	CSP PEB not reset after PCB reset, sense of PEB detected bad parity, or CSP went active during strobe of PCB sense.
E023	A-A1G2 A-A1F2	90 10	2462203 2462202	CSP card Control panel card	CSP CEB not reset after PCB reset or sense of PEB detected bad parity.
E024	A-A1G2 A-A1F2	90 10	2462203 2462202	CSP card Control panel card	Channel register not reset by PCB reset command.
E025	A-A1G2 A-A1F2	90 10	2462203 2462202	CSP card Control panel card	CSP main level MAR not zero after PCB reset.
E026	A-A1F2 A-A1G2	90 10	2462202 2462203	Control panel card CSP card	Self-test failed, unable to reset check pulse latch on panel processor card.

## B16

<b>SRC</b>	<b>FRU</b>	<b>%</b>	<b>P/N</b>	<b>FRU DESCRIPTION</b>	<b>SERVICE COMMENTS</b>
E027	A-A1G2	90	2462203	CSP card	Self-test failed, one of the following PCB commands returned bad parity; sense PEB, sense CR, sense LSR.
	A-A1F2	10	2462202	Control panel card	
E028	A-A1F2	50	2462202	Control panel card	Self-test failed, service interface data bus wrap test (either the service adapter logic is bad or a CSP bus bit is stuck active).
	A-A1G2	50	2462203	CSP card	
E029	A-A1G2	50	2462203	CSP card	Go to channel FRU Isolation Procedure 155.  Self-test failed, reset CSP status check (one of the following conditions occurred immediately after a PCB reset: Processor Check, OLB not on main level, Channel Register had bad parity, or Channel Register had wrong data for reset state). If SLCA is installed, A1U2 is more probable than A1T2. If MLCA is installed, A1T2 is more probable than A1U2. Note: Card position A-A1Q2 may have either an outboard controller (work station expansion system) or work station adapter (base system), depending on system configuration.
	A-A1F2	10	2462202	Control panel card	
	A-A1C2	10	2462209	DSA2 card	
	A-A1D2	10	2462201	DSA1 card	
	A-A1Q2	10	2462208	WS adapter card	
	A-A1T2	5	2462210	WS controller card	
		5	2462211	ELCA controller card	
	A-A1U2	5	2462211	SLCA pass-thru card	
		5	2462212	CSEIA card	
		5	2462214	CSDDA card	
		2462213	CSX21 card		
		2462215	CSV35 card		

<b>SRC</b>	<b>FRU</b>	<b>%</b>	<b>P/N</b>	<b>FRU DESCRIPTION</b>	<b>SERVICE COMMENTS</b>
<b>E02A</b>	<b>A-A1G2 A-A1F2</b>	<b>90 10</b>	<b>2462203 2462202</b>	<b>CSP card Control panel card</b>	Self-test failed during CSP SDR wrap test (an error was detected during load/sense of CSP SDR or a data mismatch occurred).
<b>E02C</b>	<b>A-A1G2 A-A1F2</b>	<b>90 10</b>	<b>2462203 2462202</b>	<b>CSP card Control panel card</b>	Self-test failed during CSP storage test (an error was detected during load/sense of storage or a data mismatch occurred).
<b>E02E</b>	<b>A-A1G2 A-A1F2</b>	<b>90 10</b>	<b>2462203 2462202</b>	<b>CSP card Control panel card</b>	Self-test failed during CSP run test (CSP inactive after PCB Start, or processor check detected).
<b>E02F</b>	<b>A-A1G2 A-A1F2</b>	<b>90 10</b>	<b>2462203 2462202</b>	<b>CSP card Control panel card</b>	Self-test failed during CSP stop test (CSP active after PCB Start, or processor check detected).
<b>E030</b>	<b>A-A1G2 A-A1F2</b>	<b>90 10</b>	<b>2462203 2462202</b>	<b>CSP card Control panel card</b>	Self-test failed during CSP processor check test (CSP active, not on MC level or processor check bit not set following a forced processor check).
<b>E031</b>	<b>A-A1G2 A-A1F2</b>	<b>90 10</b>	<b>2462203 2462202</b>	<b>CSP card Control panel card</b>	CSP is at an EC level which is not compatible with panel processor microcode.
<b>E032</b>	<b>A-A1G2 A-A1F2</b>	<b>50 50</b>	<b>2462203 2462202</b>	<b>CSP card Control panel card</b>	Self-test failed CSP reset test while PCB reset command active (CSP active processor check, or OLB not main level during reset command).

## B18



SRC	FRU	%	P/N	FRU DESCRIPTION	SERVICE COMMENTS
E033	A-A1G2	50	2462203	CSP card	Self-test failed CSP active check after PCB reset command was removed (CSP active following a PCB reset command).
	A-A1F2	50	2462202	Control panel card	
E034	A-A1G2	90	2462203	CSP card	Self-test failed in MC MAB wrap test (an error was detected during load/sense of MC MAB or a data mismatch occurred).
	A-A1F2	10	2462202	Control panel card	
E040	UPS A-A1F2 DC Cbl	95 4 1	2462202 2453107	Control panel card DC Distribution Cable	With uninterruptable power supply installed: the uninterruptable power supply is indicating low voltage and a power down condition is eminent. -----
	----- A-A1F2 DC Cbl	-- 95 5	2462202 2453107	Control panel card DC Distribution Cable	Without uninterruptable power supply installed.
E050	Panel A-A1F2 DC Cbl	75 20 5	2462202 2453107	Control panel card DC Distribution Cable	A panel function could not be selected or the selected function could not be started (function display did not flash) when the Start Function key was pressed. Go to Control Panel Service Check 507. The FRUs listed are those called for in the Control Panel Service Check 507.
E051	Panel A-A1F2 DC Cbl A-A1D2	80 15 4 1	2462202 2453107 2462201	Control panel card DC Distribution Cable DSA1 card	Lamp Test failed. Go to Control Panel Service Check 507. The FRUs listed are those called for in the Control Panel Service Check 507.

SRC	FRU	%	P/N	FRU DESCRIPTION	SERVICE COMMENTS
E052	Panel A-A1F2 DC Cbl	85 10 5	2462202 2453107	Control panel card DC Distribution Cable	The system functions normally with the keylock switch in the normal position, however, either a red light is on on the control panel or when the keylock switch is in the service position, the control panel does not function properly. Go to Control Panel Service Check 507. The FRUs listed are those called for in the Control Panel Service Check 507.
E080	A-A1G2	99	2462203	CSP card	Unconditional branch failed.
E081	A-A1G2	99	2462203	CSP card	Conditional branch failed.
E082	A-A1G2	99	2462203	CSP card	Branch and link failed.
E083	A-A1G2	99	2462203	CSP card	Test mask instruction failed.
E084	A-A1G2	99	2462203	CSP card	Hi/Lo work register selection failed.
E085	A-A1G2	99	2462203	CSP card	CI instruction failed.
E086	A-A1G2	99	2462203	CSP card	SI instruction failed.
E087	A-A1G2	99	2462203	CSP card	One byte logical instruction failed.
E088	A-A1G2	99	2462203	CSP card	One byte arithmetic instruction failed.
E089	A-A1G2	99	2462203	CSP card	Two byte logical instruction failed.
E08A	A-A1G2	99	2462203	CSP card	Two byte arithmetic instruction failed.
E08C	A-A1G2	99	2462203	CSP card	Hex branch failed.
E08E	A-A1G2	99	2462203	CSP card	Hex move failed.

## C2

<b>SRC</b>	<b>FRU</b>	<b>%</b>	<b>P/N</b>	<b>FRU DESCRIPTION</b>	<b>SERVICE COMMENTS</b>
E08F	A-A1G2	99	2462203	CSP card	Initialization of low 32k of storage failed. Initialize CSP/SS control store.
E090	A-A1G2	99	2462203	CSP card	Storage test of high 32k of storage failed. Storage and ECC check bit read/write.
E091	A-A1G2	99	2462203	CSP card	Write of low 32k of storage to high 32k of storage failed. Storage and ECC check bit read/write.
E092	A-A1G2	99	2462203	CSP card	Storage test of low 32k of storage failed. Storage and ECC check bit read/write.
E093	A-A1G2	99	2462203	CSP card	Write of high 32k of storage to low 32k of storage failed. Storage and ECC check bit read/write.
E094	A-A1G2	99	2462203	CSP card	Base plug displacement instruction failed or bar bit is wrong.
E095	A-A1G2	99	2462203	CSP card	Read or write of word to or from storage failed.
E096	A-A1G2	99	2462203	CSP card	Read or write of byte to or from storage, or bar bit is wrong.
E097	A-A1G2	99	2462203	CSP card	Load from control store direct area failed.
E098	A-A1G2	99	2462203	CSP card	Load or sense of channel register failed.

<b>SRC</b>	<b>FRU</b>	<b>%</b>	<b>P/N</b>	<b>FRU DESCRIPTION</b>	<b>SERVICE COMMENTS</b>
<b>E099</b>	<b>A-A1G2</b>	<b>50</b>	<b>2462203</b>	<b>CSP card</b>	DBI or DBO bits are wrong value.  Go to channel isolation procedure (MIM 155).
	<b>A-A1C2</b>	<b>10</b>	<b>2462209</b>	<b>DSA2 card</b>	
	<b>A-A1D2</b>	<b>10</b>	<b>2462201</b>	<b>DSA1 card</b>	
	<b>A-A1Q2</b>	<b>10</b>	<b>2462208</b>	<b>WS adapter card</b>	
			<b>2462210</b>	<b>WS controller card</b>	
	<b>A-A1T2</b>	<b>5</b>	<b>2462210</b>	<b>ELCA controller card</b>	
			<b>2462211</b>	<b>SLCA pass-thru card</b>	
	<b>A-A1U2</b>	<b>5</b>	<b>2462212</b>	<b>CSEIA card</b>	
			<b>2462214</b>	<b>CSDDA card</b>	
		<b>2462213</b>	<b>CSX21 card</b>		
		<b>2462215</b>	<b>CSV35 card</b>		
	<b>A-A1F2</b>	<b>5</b>	<b>2462202</b>	<b>Control panel card</b>	
<b>E09A</b>	<b>A-A1G2</b>	<b>50</b>	<b>2462203</b>	<b>CSP card</b>	TBI or ARS bits are wrong value.  Go to channel isolation procedure (MIM 155).
	<b>A-A1C2</b>	<b>10</b>	<b>2462209</b>	<b>DSA2 card</b>	
	<b>A-A1D2</b>	<b>10</b>	<b>2462201</b>	<b>DSA1 card</b>	
	<b>A-A1Q2</b>	<b>10</b>	<b>2462208</b>	<b>WS adapter card</b>	
			<b>2462210</b>	<b>WS controller card</b>	
	<b>A-A1T2</b>	<b>5</b>	<b>2462210</b>	<b>ELCA controller card</b>	
			<b>2462211</b>	<b>SLCA pass-thru card</b>	
	<b>A-A1U2</b>	<b>5</b>	<b>2462212</b>	<b>CSEIA card</b>	
			<b>2462214</b>	<b>CSDDA card</b>	
		<b>2462213</b>	<b>CSX21 card</b>		
		<b>2462215</b>	<b>CSV35 card</b>		
	<b>A-A1F2</b>	<b>5</b>	<b>2462202</b>	<b>Control panel card</b>	
<b>E09C</b>	<b>A-A1G2</b>	<b>99</b>	<b>2462203</b>	<b>CSP card</b>	Software set machine check interrupt failed.
<b>E09E</b>	<b>A-A1G2</b>	<b>99</b>	<b>2462203</b>	<b>CSP card</b>	Disable checks failed.

**C4**

SRC	FRU	%	P/N	FRU DESCRIPTION	SERVICE COMMENTS
E09F	A-A1G2	50	2462203	CSP card	Force MC interrupt through dev addr which is not valid failed or enable checks failed. Go to on Channel Isolation procedure (MIM 155).
	A-A1C2	10	2462209	DSA2 card	
	A-A1D2	10	2462201	DSA1 card	
	A-A1Q2	10	2462208	WS adapter card	
			2462210	WS controller card	
	A-A1T2	5	2462210	ELCA controller card	
			2462211	SLCA pass-thru card	
	A-A1U2	5	2462212	CSEIA card	
			2462214	CSDDA card	
		2462213	CSX21 card		
		2462215	CSV35 card		
	A-A1F2	5	2462202	Control panel card	
E0A0	A-A1G2	99	2462203	CSP card	Force MC interrupt through LSR parity check failed.
E0A1	A-A1G2	99	2462203	CSP card	Force MC interrupt through storage parity check failed.
E0A2	A-A1G2	50	2462203	CSP card	Waiting extraneout interrupt.  Go to channel isolation procedure (MIM 155).
	A-A1C2	10	2462209	DSA2 card	
	A-A1D2	10	2462201	DSA1 card	
	A-A1Q2	10	2462208	WS adapter card	
			2462210	WS controller card	
	A-A1T2	5	2462210	ELCA controller card	
			2462211	SLCA pass-thru card	
	A-A1U2	5	2462212	CSEIA card	
			2462214	CSDDA card	
		2462213	CSX21 card		
		2462215	CSV35 card		
	A-A1F2	5	2462202	Control panel card	
E0A3	A-A1G2	99	2462203	CSP card	Interrupt level 5 structure test failed.
E0A4	A-A1G2	99	2462203	CSP card	Disable interrupts failed.
E0A5	A-A1G2	99	2462203	CSP card	One of interrupt level 1 through 4 failed.
E0A6	A-A1G2	99	2462203	CSP card	Load/sense of run control byte failed.
E0A7	A-A1G2	99	2462203	CSP card	Load/sense of LSR failed.

C5

SRC	FRU	%	P/N	FRU DESCRIPTION	SERVICE COMMENTS
E0A8	A-A1G2	99	2462203	CSP card	CSP/SS test complete, channel problem.
E390					An unexpected failure occurred before or during the disk CSIPL load of MSP diagnostics. Customization may be wrong. Reload microcode (MIM 324). If that doesn't fix the problem, run problem determination procedures. (MIM 802, 105)
E391	A-A1B2 A-A1C2/ A-A1D2 F-A1A2  F-B1A3  A-A1YJ F-DE	40 30  10  5  5 2	2462200 2462209 2462201 1616312 1616312 4044272 1616324 2453100 1616699 1616119	Disk A adapter DSA2 card DSA1 card 30MB Digital card 60MB Digital card 30MB Analog card 60MB Analog card Signal cable A2 (30MB HDA) A3 (60MB HDA)	-- Disk Loader -- Severe hardware error. (control store load of MSP diagnostics) Ensure cable A-A1YJ is properly seated. Run disk problem determination procedures before replacing FRUs. If A-A1C2 FRU is not installed, replace A-A1D2. (MIM 802, 105)

C6

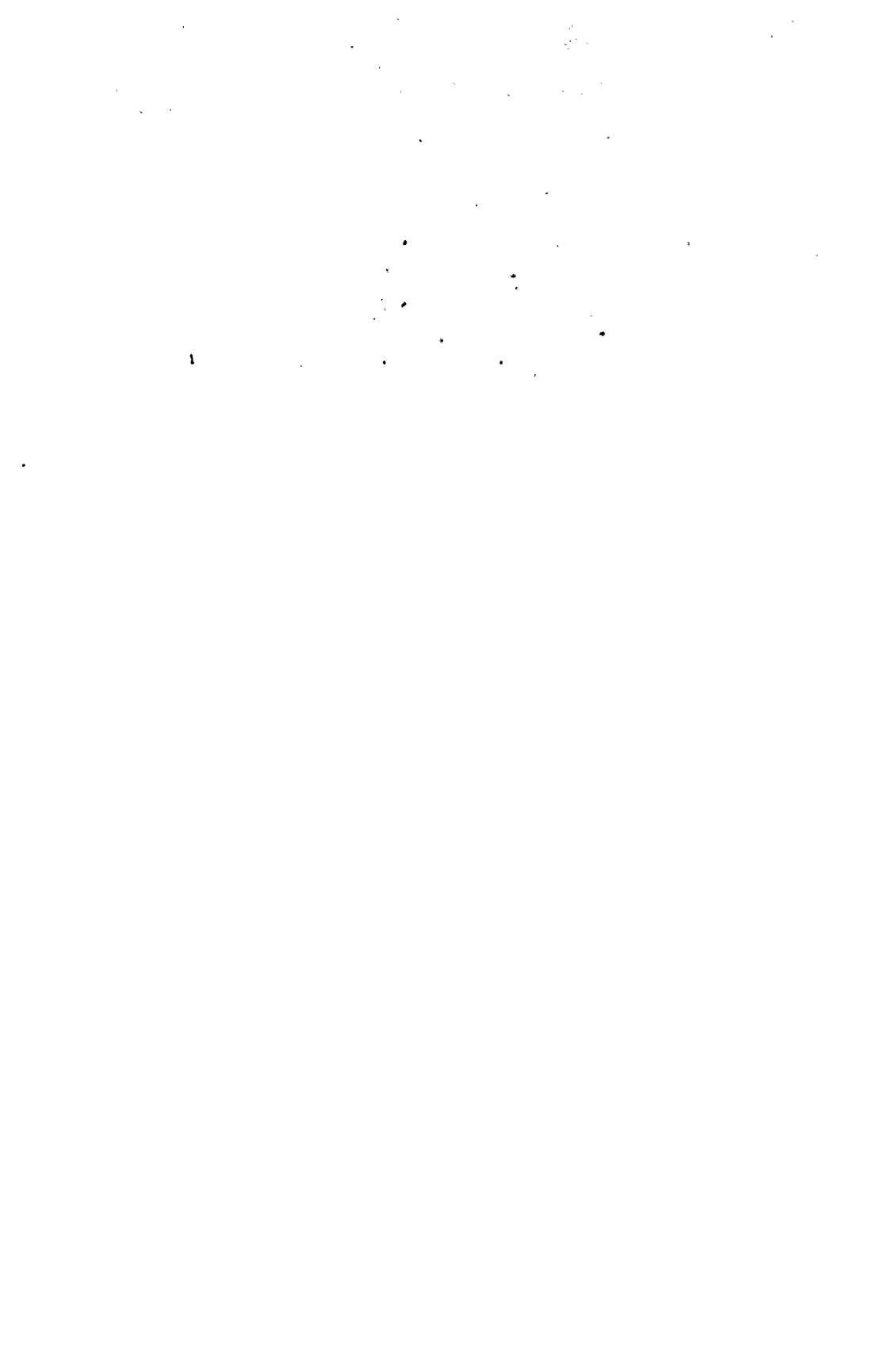
SRC	FRU	%	P/N	FRU DESCRIPTION	SERVICE COMMENTS
E392	A-A1C2/ A-A1D2 A-A1B2 A-A1YJ	70 25 5	2462209 2462201 2462200 2453100	DSA2 card DSA1 card Disk A adapter Signal cable	-- Disk Loader -- DSA error. Ensure cable A-A1YJ is properly seated. (control store load of MSP diagnostics) Ensure cable A-A1YJ is properly seated. Run customer problem determination procedures before replacing FRUs. If A-A1C2 FRU is not installed, replace A-A1D2. (MIM 802, 105)
E393	A-A1C2/ A-A1D2 A-A1B2 A-A1YJ A-A1A2	45 35 5 5	2462209 2462201 2462200 2453100 2462200	DSA2 card DSA1 card Disk A adapter Signal cable Disk B adapter	-- Disk Loader -- Interrupt timeout. (control store load of MSP diagnostics) Ensure cable A-A1YJ is properly seated. Run customer problem determination procedures before replacing FRUs. If A-A1C2 FRU is not installed, replace A-A1D2. (MIM 802, 105)

SRC	FRU	%	P/N	FRU DESCRIPTION	SERVICE COMMENTS
E394	A-A1B2 A-A1YJ	75 15	2462200 2453100	Disk A adapter Signal cable	-- Disk Loader -- ECC error. Ensure cable A-A1YJ is properly seated. (control store load of MSP diagnostics) Media or Data problem. Run pack analysis - follow recommended actions (MIM 332, 338). If that doesn't fix the problem, reload microcode. If that doesn't fix the problem, run problem determination procedures before replacing FRUs. (MIM 802, 105)
E395	A-A1B2 A-A1YJ F-A1A2 F-DE	75 15 1 1	2462200 2453100 1616312 1616312 1616699 1616119	Disk A adapter Signal cable 30MB Digital card 60MB Digital card A2 (30MB HDA) A3 (60MB HDA)	-- Disk Loader -- NRF error. Ensure cable A-A1YJ is properly seated. (control store load of MSP diagnostics) Run pack analysis - follow recommended actions (MIM 332, 338). If that doesn't fix the problem, run disk problem determination procedures before replacing FRUs. (MIM 802, 105)

C8



SRC	FRU	%	P/N	FRU DESCRIPTION	SERVICE COMMENTS
E396					-- Disk Loader -- Completed control store load of MSP diagnostics w/o detected error. Indicates failure in execution of code from load. Customization may be wrong. Reload microcode (MIM 324). If that doesn't fix the problem, run disk problem determination procedures before replacing FRUs. (MIM 802, 105)
F000					The diskette inserted is not a CSIPL diskette.
F090	A-A1C2 A-A1D2 Diskete	49 49 2	2462209 2462201	DSA2 card DSA1 card	This code indicates that an error occurred while running the diskette bootstrap loader.



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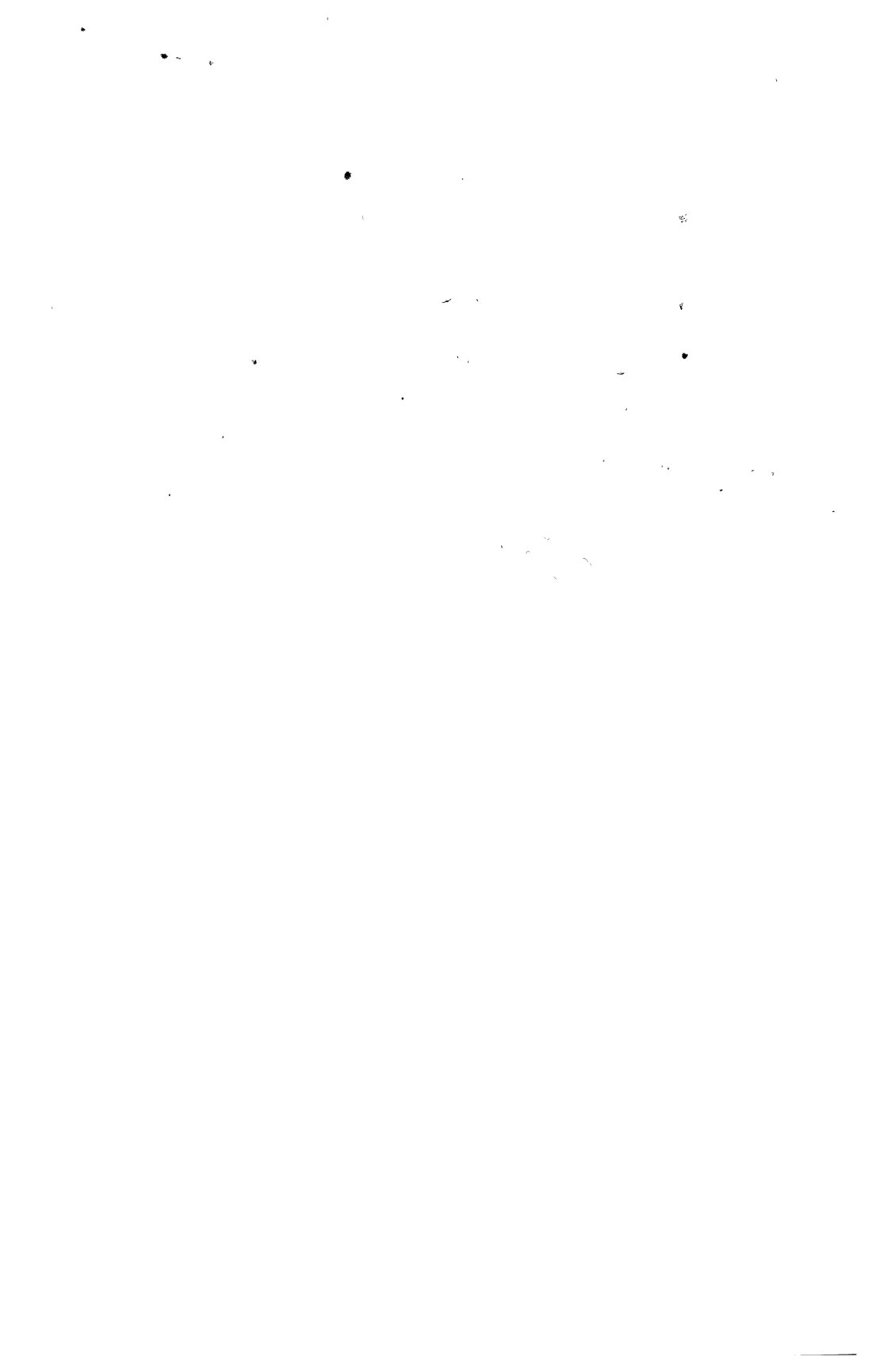
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