

ENTRY POINTS

FROM ENTER THIS MAP			
MAP NUMBER	ENTRY POINT	PAGE NUMBER	STEP NUMBER
0000	B	2	004
2570	A	1	001
2573	A	1	001

EXIT POINTS

EXIT THIS MAP		TO	
PAGE NUMBER	STEP NUMBER	MAP NUMBER	ENTRY POINT
2	003	1470	A
2	006	1470	A
3	009	1470	A
3	012	1470	A
4	015	1470	A
4	018	1470	A
4	021	1470	A
5	023	1470	A
5	027	1470	A
6	033	1470	A
6	035	1470	A
5	024	2572	A
6	032	2572	A
6	034	2572	A

001
(ENTRY POINT A)

- SEE THE MLD BINDER.
- SEE ALD PA100.
- SEE ALD PA105.
- SEE THE CORRECT PROCESSING UNIT ALD A5XXX.

THE TABLE BELOW IS A REFERENCE ONLY.

PROCESSING UNIT MODEL	DATA CARD	ADDRESS CARD	ROS CARD
MODEL A	J2	K2	L2
MODEL B	D2	E2	F2
MODEL C	L2	M2	N2
MODEL D	H2	J2	K2
MODEL E	H2	J2	K2
MODEL F	H2	J2	K2

- PROBE CARD POSITION B2 FOR THE CORRECT VOLTAGE. TEST FOR +5.0V AT THESE PINS.

CARD LOCATION ***** SERIES 1 MODEL ALL	PIN	VOLTAGE
B2	D03	+5
B2	J03	+5
B2	P03	+5
B2	U03	+5

IS A VOLTAGE PRESENT ON EACH PIN ?

Y
N

2 2
A B

002
REFERENCE THE CORRECT POWER SUPPLY LOGIC.

- POWER OFF THE PROCESSING UNIT MODULE.
- IDENTIFY THE POWER DISTRIBUTION CABLE(S) WHICH SHOULD BE SUPPLYING THE MISSING VOLTAGE
- REMOVE THIS OR THESE POWER CABLES FROM THE PROCESSING UNIT BOARD.
 - POWER ON THE PROCESSING UNIT MODULE.
 - TEST FOR THE VOLTAGE AT THE END OF EACH POWER CABLE REMOVED.

POWER CABLE LOCATION ***** SERIES 1 MODEL ALL	CABLE CONNECTOR	BOARD PIN
S2	D03	D03
S2	D03	J03
S2	D03	P03
S2	D03	U03

IS +5V PRESENT AT EACH CABLE END (D03) ?
Y
N

- 003
- POWER OFF THE PROCESSING UNIT MODULE.
 - PLUG THE CABLES ON THE PROCESSING UNIT BOARD.
 - POWER ON THE PROCESSING UNIT MODULE.
- GO TO MAP 1470, ENTRY POINT A.

004
(ENTRY POINT B)

IF THE PINS AND CONNECTOR(S) ARE CORRECT,
EXCHANGE OR REPAIR THE BOARD AND:
- VERIFY THE REPAIR.

005
IS THE VOLTAGE CORRECT ON EACH PIN ?
Y
N

006
GO TO MAP 1470, ENTRY POINT A.

007
- PROBE CARD LOCATION B2 FOR THE CORRECT +8.5 V AT PIN G11 .

CARD LOCATION ***** SERIES 1 MODEL ALL	PIN	VOLTAGE
B2	G11	+8.5

IS A VOLTAGE PRESENT ?
Y
N

C D
2 2

- 008
- POWER OFF THE PROCESSING UNIT MODULE.
- IDENTIFY THE POWER DISTRIBUTION CABLE WHICH SHOULD BE SUPPLYING THE MISSING VOLTAGE.
- REMOVE THIS POWER CABLE FROM THE PROCESSING UNIT BOARD.
- POWER ON THE PROCESSING UNIT MODULE.
- TEST FOR THE VOLTAGE AT THE END OF THE POWER CABLE REMOVED.

POWER CABLE LOCATION ***** SERIES 1 MODEL ALL	CABLE CONNECTOR	BOARD PIN
S3	B11	G11

IS +8.5V PRESENT AT THE CABLE END (B11) ?

N

- 009
- POWER OFF THE PROCESSING UNIT MODULE.
- PLUG THE CABLE ON THE PROCESSING UNIT BOARD.
- POWER ON THE PROCESSING UNIT MODULE.
- GO TO MAP 1470, ENTRY POINT A.

010
GO TO PAGE 2, STEP 004, ENTRY POINT B.

011
IS THE VOLTAGE CORRECT ON EACH PIN ?

N

012
GO TO MAP 1470, ENTRY POINT A.

013
- PROBE CARD LOCATION B2, PIN G06, FOR THE CORRECT VOLTAGE.

CARD	PIN	VOLTAGE
B2	G06	-5

IS A VOLTAGE PRESENT ?

N

- 014
- POWER OFF THE PROCESSING UNIT MODULE.
- IDENTIFY THE POWER DISTRIBUTION CABLE WHICH SHOULD BE SUPPLYING THE MISSING VOLTAGE.
- REMOVE THIS POWER CABLE FROM THE PROCESSING UNIT BOARD.
- POWER ON THE PROCESSING UNIT MODULE.
- TEST FOR THE VOLTAGE AT THE END OF THE POWER CABLE REMOVED.

POWER CABLE LOCATION ***** SERIES 1 MODEL ALL	CABLE CONNECTOR	BOARD PIN
S3	B06	G06

IS -5.0V PRESENT AT CABLE END (B06) ?

N

4 4 4
E F G

015
- POWER OFF THE PROCESSING UNIT MODULE.
- PLUG THE CABLE ON THE PROCESSING UNIT BOARD.
- POWER ON THE PROCESSING UNIT MODULE.
GO TO MAP 1470, ENTRY POINT A.

016
GO TO PAGE 2, STEP 004, ENTRY POINT B.

017
IS THE VOLTAGE CORRECT ON EACH PIN ?
Y N

018
GO TO MAP 1470, ENTRY POINT A.

019
POWER ON RESET = POR.

A 4955 MODEL F DOES NOT HAVE A POR INDICATOR ON THE 415 WATT POWER SUPPLY.

SEE IF A POR INDICATOR IS INSTALLED ON THE POWER SUPPLY.
SEE MAINTENANCE INFORMATION MANUAL PARAGRAPH 3.8 , 3.10 OR FIGURE 4.01.

IS A POR LED INSTALLED ON THE POWER SUPPLY?
Y N

020
- PROBE THE POWER ON RESET PIN - M04 - AT THE POSITION WHERE IT ENTERS THE BOARD IN THE POWER SUPPLY CABLE.
- SEE THE CORRECT PROCESSING UNIT ALD A5XXX.
- POWER OFF THE PROCESSING UNIT MODULE.

WHEN PROBING THE POR PULSE, THE PROBE WILL SHOW THE FOLLOWING SEQUENCE WHEN THE SYSTEM IS POWERED ON.

PROBE THIS IS:

UP.....+5V AT THE PROBE.
DOWN....POR PULSE ACTIVE.
UP.....POR PULSE NOT ACTIVE.

- POWER ON THE PROCESSING UNIT MODULE.
- SEE THE LEDS ON THE PROBE.

IS THE POR PULSE CORRECT ON THIS POSITION?
Y N

021
THE PROBLEM IS IN THE CABLE FROM THE POWER SUPPLY TO THE BOARD, THE BOARD ITSELF, OR SOME CARD INSTALLED ON THE BOARD.
SUSPECT A 'GROUND' IN THIS AREA.
GO TO MAP 1470, ENTRY POINT A.

022
 - PROBE THE POWER ON RESET PIN - U02 - AT THE ROS CARD POSITION.
 - SEE THE MLD BINDER.
 - SEE ALD PA100.
 - SEE ALD PA105.
 - SEE THE CORRECT PROCESSING UNIT ALD A5XXX.

THE TABLE BELOW IS A REFERENCE ONLY.

PROCESSING UNIT MODEL	DATA CARD	ADDRESS CARD	ROS CARD
MODEL A	J	K	L
MODEL B	D	M	N
MODEL C	L	M	N
MODEL D	H	J	K
MODEL E	H	J	K
MODEL F	H	J	K

- POWER OFF THE PROCESSING UNIT MODULE.

WHEN PROBING THE POR PULSE, THE PROBE WILL SHOW THE FOLLOWING SEQUENCE WHEN THE SYSTEM IS POWERED ON.

PROBE THIS IS:
 UP.....+5V AT THE PROBE.
 DOWN.....POR PULSE ACTIVE.
 UP.....POR PULSE NOT ACTIVE.

- POWER ON THE PROCESSING UNIT MODULE.
 - SEE THE LED(S) ON THE PROBE.

IS THE POR PULSE CORRECT ON THE U02 PIN?

N

023
 THE POWER ON RESET LINE IS NOT CORRECT ON THE BOARD. SUSPECT THE POR WIRE NETWORK IS OPEN. SUSPECT A CARD INSTALLED ON THE BOARD IS SHORTED.

ISOLATE AND REPAIR THE PROBLEM. REFERENCE THE CORRECT LOGIC(S) FOR THE POWER SUPPLY AND THE BOARD WITH THE PROBLEM. USE MAP 1470 TO ISOLATE THE POR LINE TO THE POWER SUPPLY. GO TO MAP 1470, ENTRY POINT A.

024
 GO TO MAP 2572, ENTRY POINT A.

025
 - SEE THE POWER ON RESET INDICATOR ON THE POWER SUPPLY.

IS THE POR LED ON ?

N

026
- POWER OFF THE PROCESSING UNIT MODULE.

OBSERVE THE POWER ON RESET INDICATOR ON THE POWER SUPPLY WHEN THE PROCESSING UNIT POWER IS TURNED ON. SEE MAINTENANCE INFORMATION MANUAL PARAGRAPH 3.8 OR 4.01 FIGURE.

- POWER ON THE PROCESSING UNIT MODULE.
 DID THE POR INDICATOR GO ON ?

Y

027
 GO TO MAP 1470, ENTRY POINT A.

028
 AFTER THE POR INDICATOR WENT ON DID IT GO OFF ?

Y

029
 MAY BE MORE THAN ONE PROBLEM. SEEK AID.

- 030
- PROBE THE POWER ON RESET PIN - U02 - AT THE ROS CARD POSITION.
- SEE THE MLD BINDER.
- SEE ALD PA100.
- SEE ALD PA105.
- SEE THE CORRECT PROCESSING UNIT ALD A5XXX.

THE TABLE BELOW IS A REFERENCE ONLY.

PROCESSING UNIT MODEL	DATA CARD	ADDRESS CARD	ROS CARD
MODEL A	J2	K2	L2
MODEL B	D2	M2	N2
MODEL C	L2	P2	R2
MODEL D	H2	J2	K2
MODEL E	H2	J2	K2
MODEL F	H2	J2	K2

LINE NAME	PIN
POWER ON RESET	U02

PROBE INDICATOR		LOGIC PROBED
UP	DOWN	MEANING
0	0	* UP
1	0	DOWN
0	1	PULSING
1	1	

* SIGNAL VOLTAGE IS NOT CORRECT OR THERE IS NO VOLTAGE.

IS THE LINE UP ?

- N
031
- SEE IF BOTH THE PROBE INDICATOR LEDS ARE OFF.
- ARE BOTH THE PROBE INDICATOR LEDS OFF?
N
032
GO TO MAP 2572, ENTRY POINT A.
033
GO TO MAP 1470, ENTRY POINT A.
034
GO TO MAP 2572, ENTRY POINT A.
035
GO TO MAP 1470, ENTRY POINT A.

- USE LOGIC PROBE 2 OR SIMILAR.
- SET THE TECHNOLOGY SWITCH TO 'MULTI'.
- SET THE LATCH SWITCH TO 'NONE'.
- SET THE GATE REF SWITCH TO 'GND'.

- PLUG THE RED (+) WIRE OF THE PROBE POWER CABLE ON +5 V.
- PLUG THE BLACK WIRE OF THE POWER CABLE ON A GROUND PIN.

THE GROUND AND VOLTAGE FOR THE PROBE IS ON ANY I/O CARD POSITION OF THE PROCESSING UNIT BOARD.

GROUND	+5V
D08	D03
J08	J03
P08	P03
U08	U03

FOR A DESCRIPTION OF THE LOGIC PROBE AND ITS USE, SEE THE LOGIC PROBE 2 MANUAL 'SY27-0127-X', OR MAP 0010, SECTION 11.00.00.