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IBM 5294 Control Unit Maintenance Analysis Procedures

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This technical newsletter provides replacement pages for the subject publication. Pages to be inserted and/or removed are:

0700-1, 0700-2 0700-3, 0700-4

Changes to text and illustrations are indicated by a vertical line to the left of the change.

Summary of Amendments

This technical newsletter provides additions related to the IBM 5294 Models K01 and S01.

Note: Please file this cover letter at the back of the manual to provide a record of changes.

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ROS PROBLEM ISOLATION MAP 0700

PAGE 1 OF 4

ENTRY POINTS

FROM	ENTER THIS MAP			
MAP NUMBER	ENTRY POINT	PAGE NUMBER	STEP NUMBER	
0100	A A	1	001	

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(Entry Point A)

Is there a card in socket C5, C7, D5, or D7? N v

002 Replace the planar (MIM 0440) and reenter the configuration (MIM 0460).

Replace all the cards and planar ROS disable jumpers removed in earlier steps. Go to verify MAP 0400-1 Entry A.

003

- Record the display error code.

Up to 4 cards may be present in sockets C5, C7, D5, and D7. These can include an old style Feature ROS card, one or more Addressable Feature ROS cards, EPROM RPQ, translate, or patch cards.

Refer to MIM 0760 to identify the card types installed. Refer to MIM 0750 to determine if any planar ROS disable jumpers are needed when the module/card is installed. Ensure that the module is installed correctly. (Refer to MIM 0760.)

Is there an old style feature ROS card in socket C5, C7, D5, or D7 (MIM 0760)? V NI

ĺ	004
	(Entry Point B)
3	Is there an Addressable Feature ROS card in socket C5, C7, D5, or D7 (MIM 0760)? Y N
A	BC

005 (Entry Point C) is there a Feature Translate EPROM card in socket C5, C7, D5, or D7 (MIM 0760)? N 006 Is there an EPROM patch card in socket C5, C7, D5, or D7 (MIM 0760)? Note: Answer no if EPROM card is for Extended Function A for Models K01 or S01, or for Model S01 Translate (refer to MIM 0760). N ľ 007 (Entry Point D) Refer to the RPQ, Extended Function A for Models K01 or S01, or S01 Translate, documentation to see if any planar ROS disable jumpers were installed as part of the RPQ installation. Turn power off. - Remove the card(s). Remove any planar ROS disable jumpers installed by RPQ, S01 Translate, or Extended Function A for Models K01 or S01 (MIM 410). Turn power on and wait 10 seconds for power-on diagnostics to complete. Is an error code displayed? Y N 008 Replace the RPQ. Extended Function A for Models K01 or S01, or S01 Translate card. Replace all the cards and planar ROS disable jumpers removed in earlier steps. Go to verify MAP 0400-1 Entry A. 009 Replace the planar (MIM 0440). Replace all the cards and planar ROS disable jumpers removed in earlier steps. Reenter the configuration (MIM 0460). Go to verify MAP 0400-1 Entry A. 010 - Turn power off. Remove the patch card. Remove the planar ROS disable jumpers installed with the patch card (MIM 0410). Turn power on and wait 10 seconds for power-on diagnostics to complete.

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AE	5294
	2 MAP 0700
	PAGE 3 OF 4
1.	22
	- Turn power off.
	 Remove the Addressable Feature ROS card.
	If more than one is installed,
·	remove either one.
	 Remove any planar RUS disable jumpers used with the ROS modules on the cord
	(MIM 0750)
	 Turn power on and wait 10 seconds for
	power-on diagnostics to complete.
	s an error code displayed? / N
	l l
	023
	Go to Page 2, Step 021, Entry Point E.
	24
	s there a second new style Feature ROS
	card installed?
	r Ņ
	025
	- Leave the card out
	Go to Page 1, Step 005, Entry Point C.
	126
	 Leave the card out.
	So to Page 1 Step 004 Entry Point B
027	
Are	there other cards installed in sockets
C5,	C/, D5, or D//
Ì	
	(Entry Point F)
	028
	Are there two or more modules on the old
	STYle Feature RUS card (Milly: 0710)?
	029
	Either the Feature ROS card or the ROS
	module is failing. See the following
	table and replace the most probable FRU
	HIST. THE MUS MODULE WILL EITHER DE
	Feature ROS card (MIM 0740 and 0741).
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4	C
A	

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	D2 XXXX XXXX=	PROBABLE FRU (see note)			
	0008	Module #4 Feature ROS card			
	0010	Module #3			
	0020 0030	Feature ROS card			
	0040 0080 00C0	Module #2 Feature ROS card			
	0100	Module #1 Feature ROS card			
	Any not listed above	Feature ROS card Module #1, 2, 3, or 4			
	NOTE: If a D2XXXX error is displayed indicating a module that is not installed, check to see if a patch card is installed.				
	Replace all the cards and planar ROS disable jumpers removed in earlier steps. Note: When replacing card P/N2451982 with the Addressable Feature Card, refer to MIM 0750 for switch settings. Go to verify MAP 0400-1 Entry A.				
 03 -	0 Look for the display following list. D20008 D2000 D20010 D2000 D20020 D2000	red error code in the 30 D200C0 40 D20100 80			
Di Y	d you find the eri N 031	ror code in the list?			
	The most probable cause is the old style Feature ROS card. Obtain an Addressable Feature ROS card and transfer the modules to the new card. (Refer to MIM 0750 for switch settings). If a failure still occurs, remove the modules one at a time and turn power on after each removal. The failing module is the one removed just before the 5294 power-on sequence was OK (MIM 0740).				

032

See the table and replace the module indicated (MIM 0741).

D2 XXXX XXXX=	PROBABLE FRU (see note)
0008	Module #4
0010 0020 0030	Module #3
0040 0080 00C0	Module #2
0100	Module #1
NOTE: If a D2XX	XX error is displayed

note: If a D2XXXX error is displayed indicating a module that is not installed, check to see if a patch card is installed.

If the failure still occurs:

- Obtain a new Feature ROS card.
- Remove the modules from the old card and install the modules on the new card (MIM 0741).
- Install the new Feature ROS card (MIM 0740).

Replace all the cards and planar ROS disable jumpers removed in earlier steps. Go to verify MAP 0400-1 Entry A.

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- Turn power off.
- Remove the old style Feature ROS card.
- Turn power on and wait 10 seconds for
 - power-on diagnostics to complete.

Is an error code displayed?



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- Leave the card out.

Go to Page 1, Step 004, Entry Point B.

Replace all the cards and planar ROS disable jumpers removed in earlier steps. Go to verify MAP 0400-1 Entry A.





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