

## REMOVE POWER FROM UNIT

1. Is faulty unit a moving head disk (MHD)?

If YES, then do Step 5.  
If NO, then continue to Step 2.

2. Locate unit power switch (FIG. 1).
3. Depress OFF switch.

Response: Major audible alarm sounds  
**REPT:POWER DOWN** message received  
At terminal, display page 102 unit label indicates UNAV or 005  
At unit power switch, OFF LED lighted.

4. **STOP. YOU HAVE COMPLETED THIS PROCEDURE.**
5. On OOS MHD operator control panel, release START switch and wait 30 seconds.

Response: **READY** or **START** lamp off.

6. On power control panel, depress OFF switch.

Response: Minor audible alarm sounds  
Power control panel OFF and ALERT LEDs lighted  
Aisle pilot lamp lighted  
**REPT:POWER DOWN MHD a** message received  
Where a = 0, 1, 2, 3.

7. **STOP. YOU HAVE COMPLETED THIS PROCEDURE.**

UNIT	POWER SWITCH	PC FRAME
CU 0	TN5	Bay 0
CU 1	TN5	Bay 1
DFC 0	TN3	Bay 0
DFC 1	TN3	Bay 1
IOP 0	TN6	Bay 0
IOP 1	TN6	Bay 1
Legend: CU = control unit DFC = disk file controller IOP = input/output processor PC = processor control		

FIG. 1

## REPLACE CIRCUIT PACK (CP)

1. Remove unit from service using DLP-501 or DLP-510.
2. Remove power from unit using DLP-500.
3. **Note:** If CP is a power unit, indicator fuse must be removed before load fuse is removed and must be reinstalled after load fuse is reinstalled.

Does CP being replaced have any associated fuse(s) (FIG. 1)?

If YES, then continue to Step 4.  
If NO, then do Step 5.

4. Remove any associated fuse(s).
5. Remove CP.
6. **Note:** If older versions of circuit packs will not insert into the new cost-reduced apparatus housing due to double card guide tabs (center and side), remove the side card guide tabs.

Does replacement CP have two card guide tabs on the top and bottom of the connector (FIG. 2) which will not allow it to be inserted into the apparatus housing?

If YES, then continue to Step 7.  
If NO, then do Step 8.

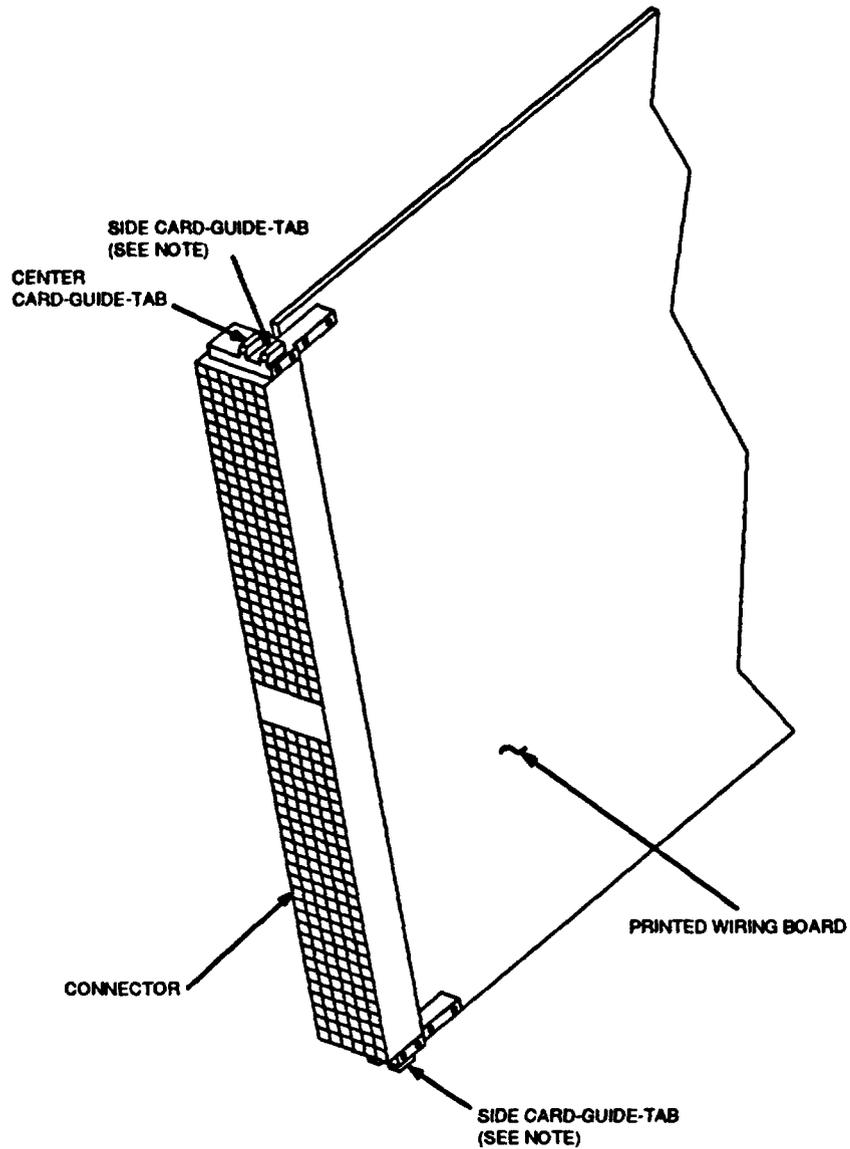
7. Remove the **SIDE** card guide tabs (both top and bottom) by following the instructions provided with FIG. 2, using a small fine cut mill file or equivalent.

**Caution:** Do not allow filings to enter the connector.

8. Install new CP.
9. Replace fuse(s) if removed in Step 4.
10. Restore power to unit using DLP-505.
11. Restore unit to service using DLP-506 or DLP-511.
12. **STOP, YOU HAVE COMPLETED THIS PROCEDURE.**

UNIT	CIRCUIT PACK	LOCATION	FUSE
DFC	DFC TN 3	51-074	F5A
	Power unit C	51-016	F6
	Power unit C	51-016	F6A
CU	Power unit D	51-178	F9
	Power unit D	51-178	F9A
	CPU TN 5	60-162	F10A
	Power unit B	60-178	F11
	Power unit B	60-178	F11A
	Power unit A	60-016	F12
	Power unit A	60-016	F12A
	Power unit G	33-016	F15
	Power unit G	33-016	F15A
	Power unit F	42-178	F16
Power unit F	42-178	F16A	
IOP	PC 1 TN 9	33-032	F17
	PC 1 TN 9	33-032	F17A
	PC 2 TN 9	42-056	F18
	PC 2 TN 9	42-056	F18A
	PC 3 TN 9	42-024	F19
	PC 3 TN 9	42-024	F19A
	Power unit E	42-016	F20
	Power unit E	42-016	F20A
	PC 0 TN 9	33-072	F21
	PC 0 TN 9	33-072	F21A
	IOP TN 6	33-162	F22A
	Power unit H	33-178	F23
	Power unit H	33-178	F23A
494GA power unit	33-024	F24	
495GA power unit	33-024	F24A	

FIG. 1



**NOTE:** Remove the side card guide tabs (both top and bottom) on older versions of circuit packs before inserting into a new apparatus housing equipped with the reduced-cost card guides. The side card guide tabs may be removed by filing the tabs flush with the top of the connector.

**FIG. 2**

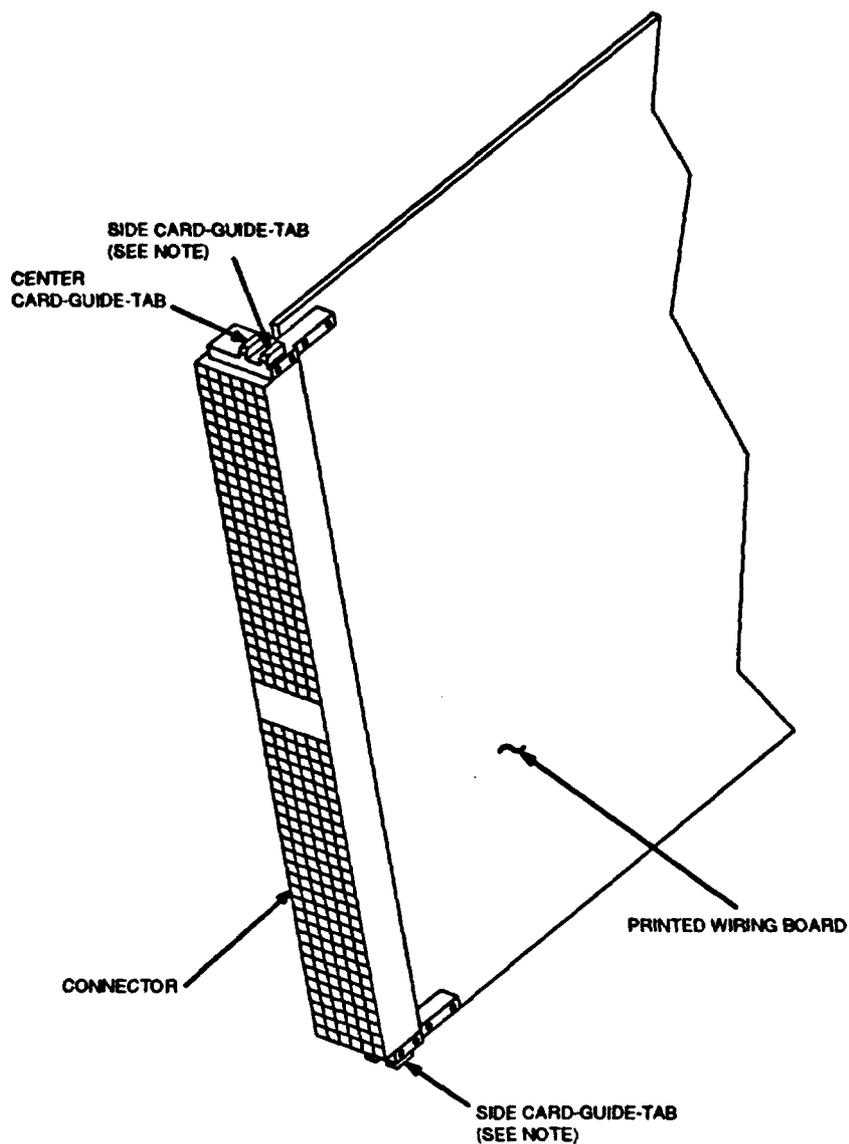
## REPLACE SCANNER AND SIGNAL DISTRIBUTOR (SCSD) UN33B CIRCUIT PACK

1. If input/output processor (IOP) is not already removed from service, at terminal, type:  
**RMV:IOP=a;**  
Where a = member number of IOP.
2. On TN6 at location 29-162, depress OFF switch.
3. Remove UN33B circuit pack from IOP.
4. **Note:** If older versions of circuit packs will not insert into the new cost-reduced apparatus housing due to double card guide tabs (center and side), remove the side card guide tabs.

Does replacement UN33B have two card guide tabs on the top and bottom of the connector (FIG. 1) which will not allow it to be inserted into the apparatus housing?

If YES, then continue to Step 5.  
If NO, then do Step 6.

5. Remove the **SIDE** card guide tabs (both top and bottom) by following the instructions provided with FIG. 1, using a small fine cut mill file or equivalent.  
**Caution: Do not allow filings to enter the connector.**
6. Install UN33B replacement circuit pack.
7. On TN6 at location 29-162, depress ON switch.
8. Type:  
**RST:IOP=a;**  
Where a = member number of IOP.
9. **STOP. YOU HAVE COMPLETED THIS PROCEDURE.**



**NOTE:** Remove the side card guide tabs (both top and bottom) on older versions of circuit packs before inserting into a new apparatus housing equipped with the reduced-cost card guides. The side card guide tabs may be removed by filing the tabs flush with the top of the connector.

**FIG. 1**

## RESTORE POWER TO UNIT

1. Locate unit power switch (FIG. 1)
2. Depress ON switch.

Response: **REPT:POWER UP** message received  
At terminal display page 162, unit label indicates **OOS** or **OOS MAN**  
At unit power switch, **OOS LED** lighted.

3. If unit is an MHD, at MHD operator control panel, depress **START** key.

Response: **START** or **READY** lamp lighted in 30 seconds.

4. **STOP. YOU HAVE COMPLETED THIS PROCEDURE.**

BIT	POWER SWITCH	FRAME
CU 0	TN5	PC bay 0
CU 1	TN5	PC bay 1
DFC 0	TN3	PC bay 0
DFC 1	TN3	PC bay 1
IOP 0	TN6	PC bay 0
IOP 1	TN6	PC bay 1
MHD 0	ED-4C194	MHD 0
MHD 1	ED-4C194	MHD 1
MHD 2	ED-4C194	MHD 2
MHD 3	ED-4C194	MHD 3
Legend:	CU = control unit DFC = disk file controller IOP = input/output processor MHD = moving head disk PC = processor control	

FIG. 1