

**Installation of a Line Adapter:
Low Speed Scanner (TSS) (FC 4720).
High Speed Scanner (HPTSS) (FC 4740).
Token Ring Adapter (TRSS) (FC 4770), Type 2, 16 Megs.**

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Checked by G.Housieaux
Approved by F.Charron
Reviewed by J.Pasley

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Before Installation. (Steps 1- 8)

1.0 MACHINES AFFECTED:

3745 MODEL 210/310/410/610 and 3746 MODEL A11/A12.

2.0 PREREQUISITES/CONCURRENT/COMPANION:

2.1 Prerequisite:

If you install a TSS (FC 4720)

- EC A47544 must be present on all CSP cards already installed.
CHECKPOINT: CSP card in 01G-A1 board must be P/N 11F5035 or later. (REF ZZ001)

If you install a HPTSS (FC 4740)

- EC A47006B : microcode level loaded in 3745 must be A47006B or higher. (see ZZ001).
Checkpoint: Check label on normal and back-up sets of diskettes.
- EC A47546 : MOSS EPROM.
Checkpoint: EPROM CARD in 01A-X0E4 must be P/N 11F5058 or later. (SEE ZZ001).
- EC A47339 : Documentation level in 3745 must be A47339 or higher.
Checkpoint: EC level on PRD sheet. (Volume 3).

If you install a TRSS type 2 (FC 4770)

- EC A47020 : Microcode level loaded in 3745 must be A47020 (with any suffix) or higher.
Checkpoint: Check label on normal and back-up sets of diskettes.
- EC A73216 : Documentation.
Checkpoint: EC level on PRD sheet.(Volume 3.)
- EC C30988 must be present on all TRM cards already installed.
CHECKPOINT: TRM card in 01G-A1 board must be P/N 09G2777 or later. (REF ZZ001)

FEATURE : A TSST board must be present in 01G-A1 in the machine before installing the first TRSS (FC 4770).

Checkpoint: A TSST board has a card plugged in position A2.
(TRM or BPC2).

A TSSB has a dummy card in position A2.

2.2 Concurrent - (Must be installed together)

None

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2.3 Companion - (May be installed separately)

None

3.0 B/M(S) TO BE INSTALLED

NOTE: Review each numbered item in this section to determine your needs.

3.1 FFB/M to be installed.

- 66X0032 - Installation Instruction.
- 66X0031 - Low speed scanner installation (TSS).
- or -66X0099 - High speed scanner installation (HPTSS).
- or -66X1394 - Token ring adapter installation for models 210/410 only (TRSS).
- or -05F2531 - Token ring adapter installation for models 310/610 only (TRSS).

3.2 As required B/M

- 66X0037 - Line adapter power supply.
(If you install an adapter in ODD position)
- 66X1117 - External cable for Token ring adapter.
(EMEA only)
- 11F6530 - External cable for HPTSS.
(Spain, Norway, Denmark and Ireland only).
- 66X0084 - External cable for HPTSS.
(EMEA except FRANCE)
- 66X0088 - External cable for HPTSS.
(EMEA FRANCE only)
- 66X0095 - DMSW and DTER card.
(If you install the first HPTSS in 3745 model 210/310)
- 66X1392 - DMSW cards and DTER card.
(If you install the first HPTSS in 3745 model 410/610)
- 72F0036 - Wrap plugs for 210/310/410 and 610 models.

4.0 PREPARATION:

1. Familiarize yourself with the purpose and details of the installation instruction.
2. Check all the items and count parts listed on the B/M(s) to be installed to determine that all the parts were received.
3. NOTES:
 1. The 01G-A1 board in base frame can be TSSB or a TSST board.
 - In TSST board (only one in 3745) there is room for TRSS, HPTSS and/or TSS.
 - In TSSB board there is room for HPTSS and/or TSS.
 - HPTSS and TRSS can be installed in base frame only (board 01G-A1).

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2. TSSB and TSST boards are shared between 2 IOC buses

- IOC bus group 1 drives adapter positions 1 to 4 and
- IOC bus group 2 drives adapter positions 5 to 8 of each board.

4. Using HONE Configurator sheet and the following tables determine the adapter cards and power (if required) positions to be installed.

- Table 1 : TSS or HPTSS or TRSS adapter installation in TSST board (01G-A1 board only).

Adapt. Position	1	2	3	4	5	6	7	8
Install. TRSS Seq. HPTSS/TSS	1st	3rd	1st	3rd	2nd	4th	2nd	4th
CARDS CSP	N/A	N/A	G2	J2	N/A	N/A	S2	U2
IN FESL/H	N/A	N/A	H2	K2	N/A	N/A	T2	V2
01G-A1	TRM	A2	D2	N/A	N/A	L2	P2	N/A
	TIC-A	B2	E2	N/A	N/A	M2	Q2	N/A
	TIC-B	C2	F2	N/A	N/A	N2	R2	N/A
Power Supply (PSTY4)	08 01H-A1		09 01H-B1		10 01H-C1		11 01H-D1	
01U-A0 Tailgate TRSS HPTSS	A N/A	D N/A	N/A H	N/A K	L N/A	P N/A	N/A T	N/A V

- Table 2: TSS or HPTSS adapter installation in TSSB board (01G-A1 only)

Adapt. Position	1	2	3	4	5	6	7	8
Intallation Sequence	1st	3rd	5th	7th	2nd	4th	6th	8th
CARDS CSP	E2	G2	J2	L2	N2	Q2	S2	U2
IN FESL	F2	H2	K2	M2	P2	R2	T2	V2
01G-A1								
Power Supply (PSTY4)	08 01H-A1		09 01H-B1		10 01H-C1		11 01H-D1	
01U-A0 Tailgate HPTSS	F	H	K	M	P	R	T	V

- Table 3: TSS adapter installation in: 02A-A1 (adapter frame 2)
or in : 02F-A1 (adapter frame 2)
or in : 03F-A1 (adapter frame 3)

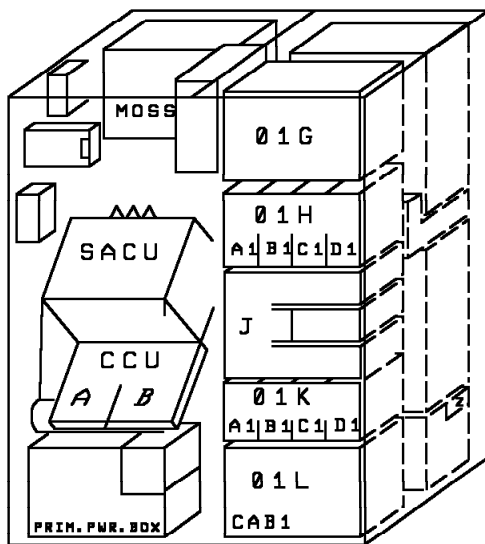
Adpt.pos.in 02A-A1	9	10	11	12	13	14	15	16
Power supply: ID (PSTY4) : Position	18 02B-A1	19 02B-B1	20 02B-C1	21 02B-D1				

Adpt.pos.in 02F-A1	17	18	19	20	21	22	23	24
Power supply: ID (PSTY4) : position	22 02G-A1	23 02G-B1	24 02G-C1	25 02G-D1				

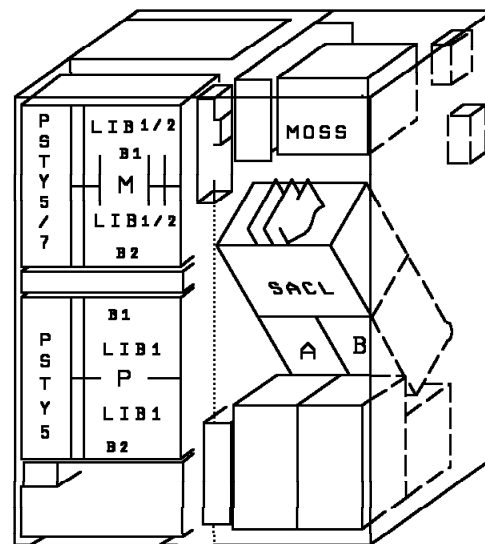
Adpt.pos. in 03F-A1	25	26	27	28	29	30	31	32
Power supply: ID (PSTY4) : position	26 03G-A1	27 03G-B1	28 03G-C1	29 03G-D1				
Cards CSP	E2	G2	J2	L2	N2	Q2	S2	U2
Position in TSSB FESL	F2	H2	K2	M2	P2	R2	T2	V2

- The installation of a line adapter can be performed either ON-LINE (Concurrent mode with NCP running, MOSS ON-LINE) or OFF-LINE, (Complete machine POWER OFF) . Select the procedure according to machine availability.
Nevertheless, if you install the first HPTSS adapter in the 3745, the whole system 3745 MUST be POWERED OFF due to the installation of DMSW card(s) in CCU and DTER card.
- If you install a TSS or a HPTSS in a 3745/3746 housing an ALC feature, (RPQ 7L1092), the first ALC feature on the IOCBUS must be moved, and plugged in last position of adapters.
TSS or HPTSS feature will be plugged in place of the ALC feature.

3 7 4 5

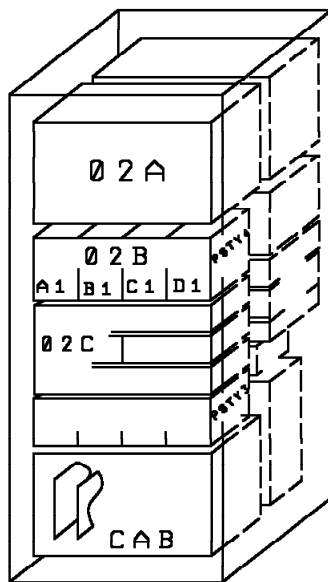


FRONT VIEW

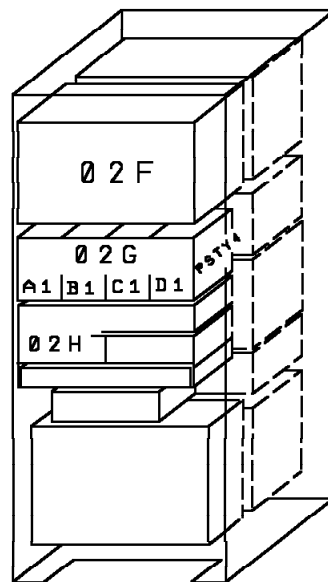


REAR VIEW

3 7 4 6 A 1 1

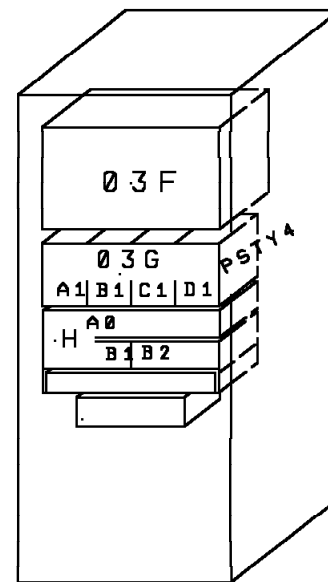


FRONT VIEW



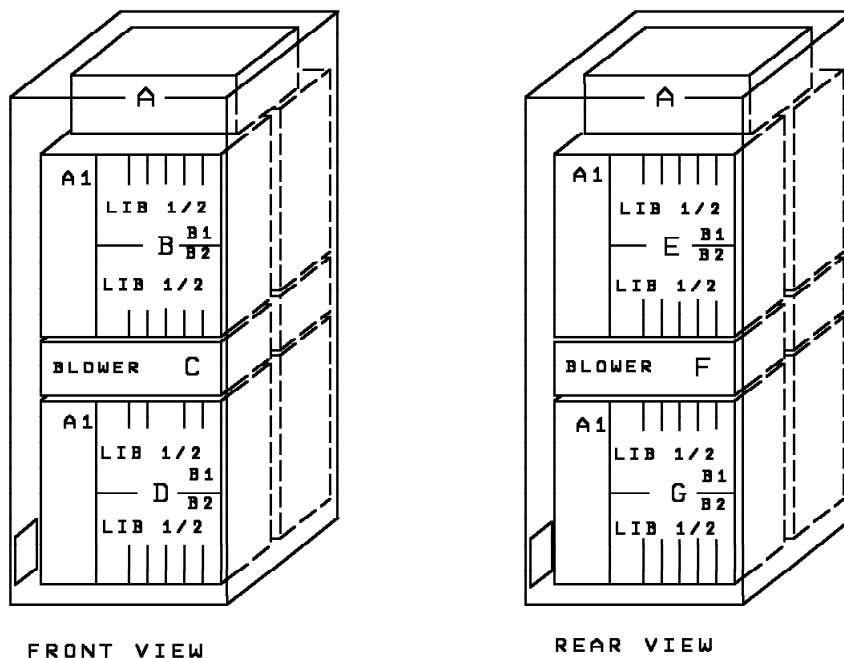
REAR VIEW

3 7 4 6 A 1 2



REAR VIEW

3746 MODEL L14/L15/L16



5.0 PROGRAM UPDATE:

5.1 Diagnostic programs.

CDF to reflect this change will be performed in step 11.0. This is essential to allow internal diagnostics to be run properly.

5.2 System programs.

The customer must update the control program to implement this change.

- NCP Tier	Usage Limits (Up to...)
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1	1 TSS/HPTSS + 1 TRA + 2 CA
2	2 TSS/HPTSS + 1 TRA + 2 CA
2.5	6 TSS/HPTSS + 0 TRA + 4 CA
or	2 TSS/HPTSS + 2 TRA + 4 CA
3	8 TSS/HPTSS + 0 TRA + 8 CA
or	4 TSS/HPTSS + 4 TRA + 8 CA
4	24 TSS/HPTSS + 0 TRA + 16 CA
or	20 TSS/HPTSS + 4 TRA + 16 CA
5	32 TSS/HPTSS + 0 TRA + 16 CA
or	28 TSS/HPTSS + 4 TRA + 16 CA

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6.0 PURPOSE AND DESCRIPTION:

6.1 Purpose.

Install Line Adapter (TSS or HPTSS or TRSS).

6.2 Description.

Install Adapter cards and associated Power Supply (if required).

7.0 INSTALLATION TIME:

FFB/M	Machine Hrs.	System Hrs.
66X0031 (TSS) or		
66X1394 (TRSS for 2/410)		
05F2531 (TRSS for 3/610)		
66X0099 (HPTSS)	1.3	00.0
66X0037 (POWER)	0.4	00.0
66X0095 (DMSW/DTER)	0.5	00.0
66X1392 (DMSW/DTER DUP)	0.8	00.0
72F0036 (Wrap plugs)		
66X1117 (EMEA CABLES)	0.3	00.0
TEST TIME	0.7	00.0

Total time: TSS/TRSS/HPTSS 2.0, with Power: 2.4		
Add 0.5 If you install the first HPTSS in 3745 MODEL 210/310		
Add 0.8 If you install the first HPTSS in 3745 MODEL 410/610		

8.0 SPECIAL TOOLS AND/OR MATERIALS REQUIRED:

ESD kit P/N 6428316

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INSTALLATION (Steps 9-11)

9.0 SAFETY

The feature installation can be performed either ON-LINE (Machine power on) or OFF-LINE (complete machine power down).

The installation of the first HPTSS in the 3745, will be performed OFF-LINE (Power OFF). Nevertheless you must be aware of safety rules.

Review the *Safety Inspection Procedures* located at the beginning of the *3745 Maintenance Information Procedures (MIP)* manual.

10.0 DETAILS OF INSTALLATION

If you install a TRSS, a TSS or an additional HPTSS in 3745 system with the machine POWER ON, go to step 10.2.

If you have complete machine availability for POWER OFF or if you install the FIRST HPTSS in 3745, proceed.

10.1 Preparing for LA installation Off-Line (3745 power Off).

Before proceeding with any physical installation, the following steps must be performed:

- Ask customer to set all the lines and channel addresses off-line for this controller.
- Ask customer for *Maintenance Password*.
- Ask customer to logoff the console if not already done.

10.1.1 On control panel:

Check that *Power Control* indicator displays 3. If not, record the value __, then press *power control* key until 3 is displayed.

Press *Validate* key.

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10.1.2 On local console:

- On *CA interface display* screen, record the *Enabled channel adapters* then *disable* all channel adapters.
- Wait for *Interface Status Disabled* for all CA's.
Press *F4*.
- Enter the *Maintenance Password*, press *SEND*.
- If CCU running, enter *CSR* and select CCU A or/and CCU B then, enter *RST* to reset CCU(S), MOSS goes in *MOSS Alone* state.

Note: If model 410/610, CCU must be selected with *CSR* function before performing *RST* perform CSR/RST sequence for each CCU.

10.1.3 Display the Configuration Data File (CDF) on local console

- Enter *CDF*, Press *SEND*.
- Select *DISPLAY/ UPDATE*, Enter *1*, Press *SEND*.
- Select *LA*, ENTER *7*, Press *SEND*.
Check for the presence of *N* for the LA position to be installed according to the HONE configurator sheet.
Press *F1*.

10.1.4 Run Diagnostics.

- Enter *ODG*, Press *SEND*.
- Select *IOCB*, Enter *3*, Press *SEND*.
 - If any error is reported, go to *Maintenance Information Procedure (MIP)* chapter 2 and follow appropriate procedure.(S)
 - If no error reported, Press *F1*.

10.1.5 Power off

- Power off the machine from the control panel.
- Open the system cover D of 3745, then switch off *CB1*. (See page 12).

Skip to step 10.3.

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10.2 Preparing for LA installation with 3745 Power On (MOSS OnLine)

Before proceeding with any physical installation, the following steps must be performed:

- Ask customer for *Maintenance Password*.
- Ask customer to logoff the console if not already done.
- If the identified LA to be installed, is in EVEN position, notify customer to de-activate all the lines connected on the ODD adapter fed by the same power supply. (Refer to tables in step 4.0)

10.2.1 On control panel:

Check that *Power Control* indicator displays 3. If not, record the value __, then press *Power Control* key until 3 is displayed.
Press *Validate* key.

10.2.2 On local console:

- When *CA Interface Display Screen* displayed,
Press *F4*.
- Enter the *Maintenance Password*, press *SEND*.

10.2.3 Display the Configuration Data File (CDF) on local console.

- Enter *CDF*, Press *SEND*.
- Select *LA*, Enter 7, Press *SEND*.
Check for the presence of *N* for the LA position to be installed according to the HONE configurator sheet.
Press *F1*.

10.2.4 Diagnostics.

N/A

Note: If you install a LA in ODD position,(1,3,5..) go to step 10.3.
If you install a TRSS IN EVEN position, go to step 10.2.6
If you install a TSS or a HPTSS in EVEN position , proceed.

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10.2.5 Disconnect a TSS or a HPTSS from NCP.

If you install a LA in EVEN position, you must disconnect from NCP the adjacent ODD LA powered by the same PSTY4.(See tables in step 4.0).

- Enter *TSS* (TSS services), Press *SEND*.
Select option 1, Press *SEND*.
- Enter *SXX*, (XX being the LA number), Press *SEND*.
Scanner XX is selected.
Move cursor to data entry area then,
- Select option 3, Press *SEND*.
- Select *Delayed/disconnect*, Enter *DS*, Press *SEND*.
Scanner XX goes in *DISCTD-STOP* mode.
- Press *F1*.
- Go to step 10.2.7

10.2.6 Disconnect TRSS from NCP.

Note: Do not perform disconnect function if TRM is down. See Retain TDR H081880.

If you install a LA in EVEN position, you must disconnect from NCP the adjacent ODD LA powered by the same PSTY4.(See tables in step 4.0).

- Enter *TRS* (TRSS services), Press *SEND*.
Select option 1, Press *SEND*.
- Enter the number of the ODD adapter, Press *SEND*.
Move cursor to data entry area then,
- Select option 2, Press *SEND*.
- Enter *DS* to disconnect the TRSS, Press *SEND*.
- Press *F1*.

10.2.7 Set the appropriate PSTY4 power supply OFF.

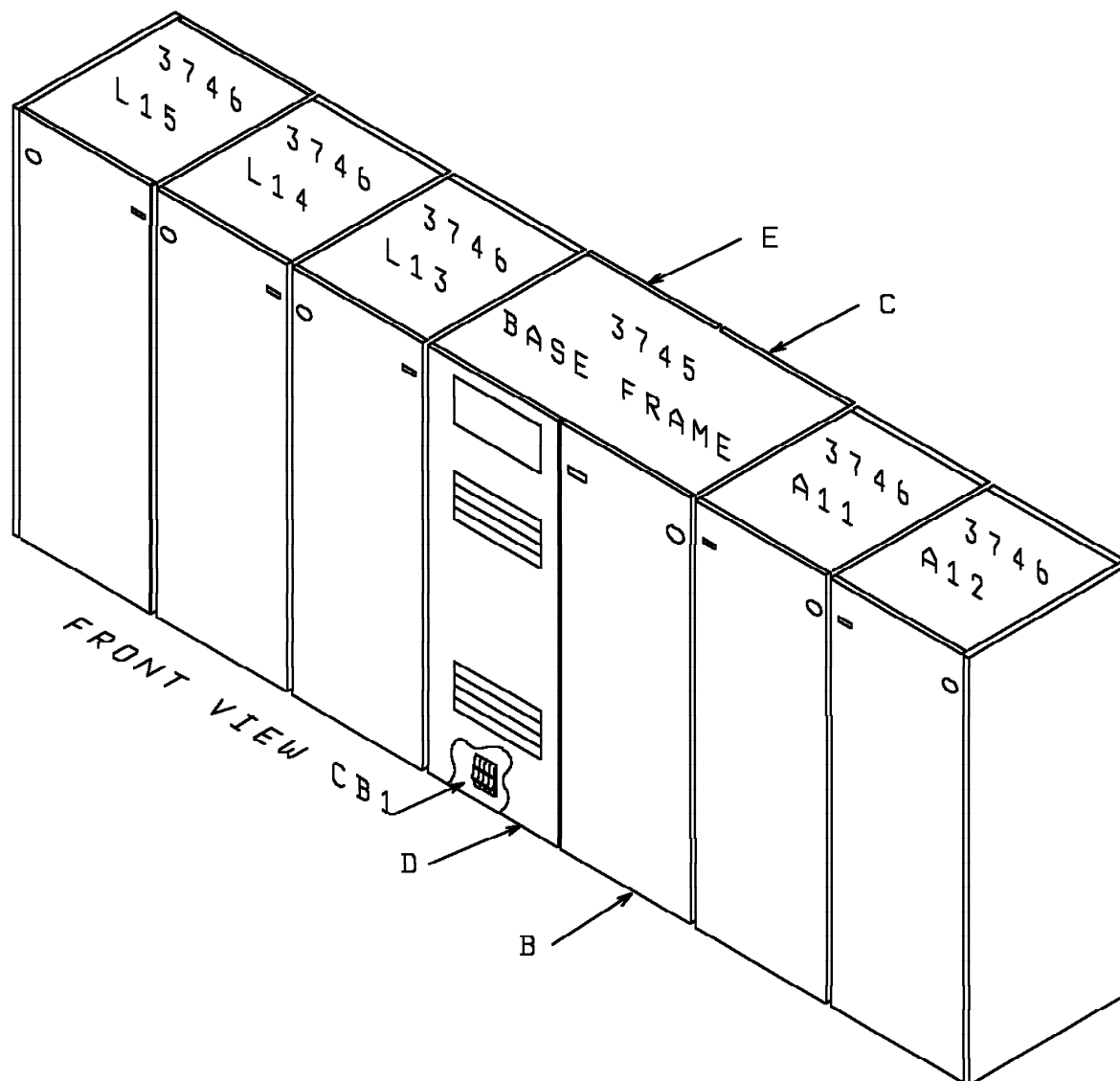
Warning US ONLY

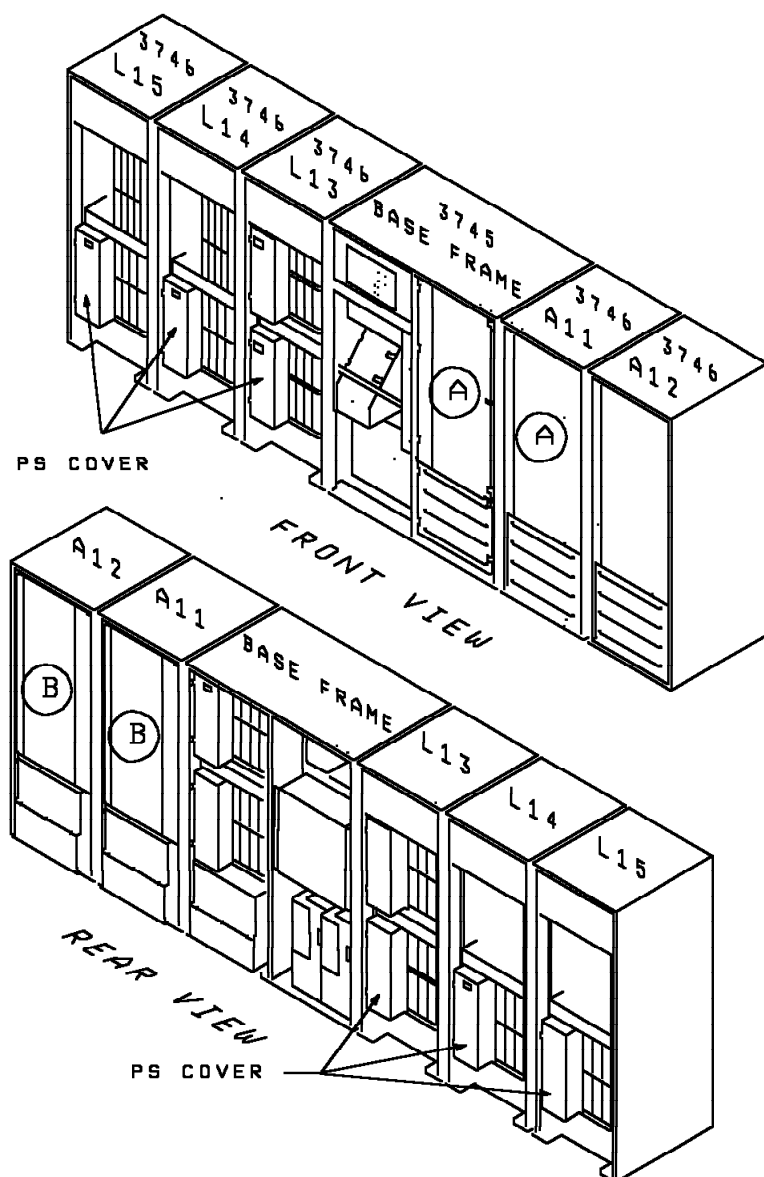
If there is a mix of PSTY4 vendors in the frame, and normal power removal procedures are used to power down more than one supply, a false NOREPLY indication may occur. To avoid this condition, remove power from one PSTY4 , install the associated adapter(s) (Step 10.3) and restore power to that PSTY4 (UXX from POS screen). This sequence can be repeated for the remaining PSTY4(s).

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If you install a LA in EVEN position, you must power OFF the PSTY4 driving the adjacent ODD LA. (See tables in step 4.0).

- Enter *POS*, Press *SEND*.
- Enter *1, 2 or 3*, (frame power services), Press *SEND*.
On displayed screen, check that the status of identified PSTY4 is UP then enter *DXX*, (XX being the PSTY4 ID).
Verify that the power supply goes to *DOWN* state.





10.3 Hardware Installation

WARNING. Follow existing ESD procedures when handling logic parts.

If you install a :

- HPTSS adapter skip to section 10.5
- TSS adapter skip to section 10.6
- TRSS adapter proceed.

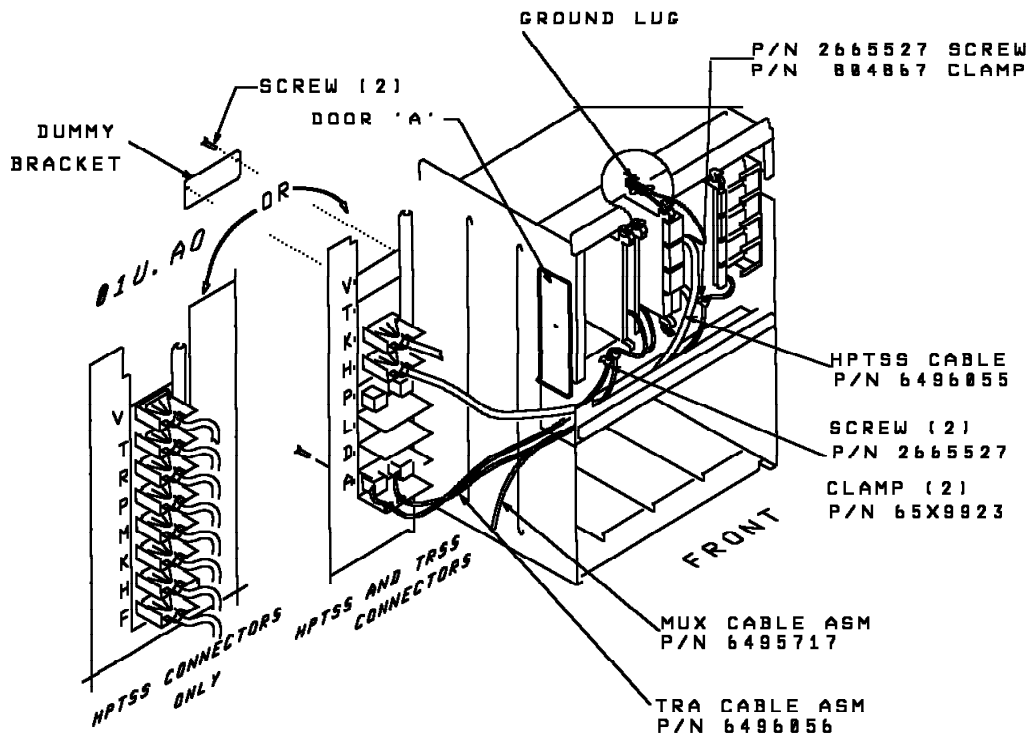
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NOTE

If you are reinstalling a TRA feature (RPQ's 07L1082 or 07L1084), please verify that the TRM card is at P/N 09G2777 or higher (reference ZZ001 pages). If the correct P/N is already with the removed feature, send the new card via return package to your Branch Office.

10.4 Token Ring adapter installation

- Open system covers B, C, E of 3745. (See page 15).
- If present, open the shield A, and locate the TSST board in position 01G
- Remove dummy cards or IOC bypass card (BPC2) from positions where feature will be installed according to HONE Configurator sheet and step 4.0.

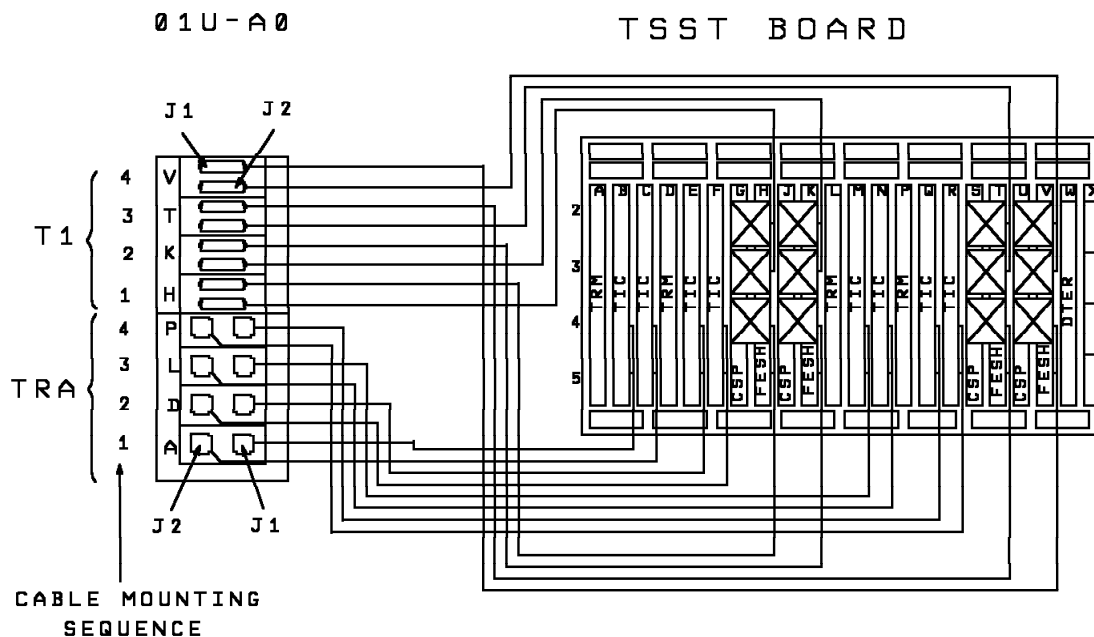


- Slide the door indicated A up.

10.4.1 Internal TRSS cable asm installation.

- From the rear of 3745, locate the 01U-A0 tailgate, remove dummy bracket from position identified in step 4.0, retain the screws.
 - In same location install the TRSS cable ASM P/N 11F5494 using the two screws retained in previous step.
- Route the cable to 01G gate.

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10.4.2 Card installation.

- Verify that holders P/N 1953172 (3) are installed on TRSS cards provided by card group B/M 66X1218 (210/410) or B/M 05F2532 (310/610). Plug the 3 TRSS cards in positions determined in step 4.0.

Note: Before plugging of TIC cards in board, connect the ends of TRSS cables in J1 connector of each card.

Secure the TRSS cables ASM on 01G gate with two clamps P/N 65X9923 and two screws P/N 2665527.

10.4.3 External cable.

Warning

Hazardous voltages can exist on the ground shields of cables due to various faults. When installing token rings cables, verify that the ground potential difference between the cable shields and the 3745/3746 frame ground is no more than 1.0 VAC. If the voltage is exceeded, notify the customer immediately and do not proceed until the problem is corrected. Avoid installation or reconfiguration work during lightning activity.

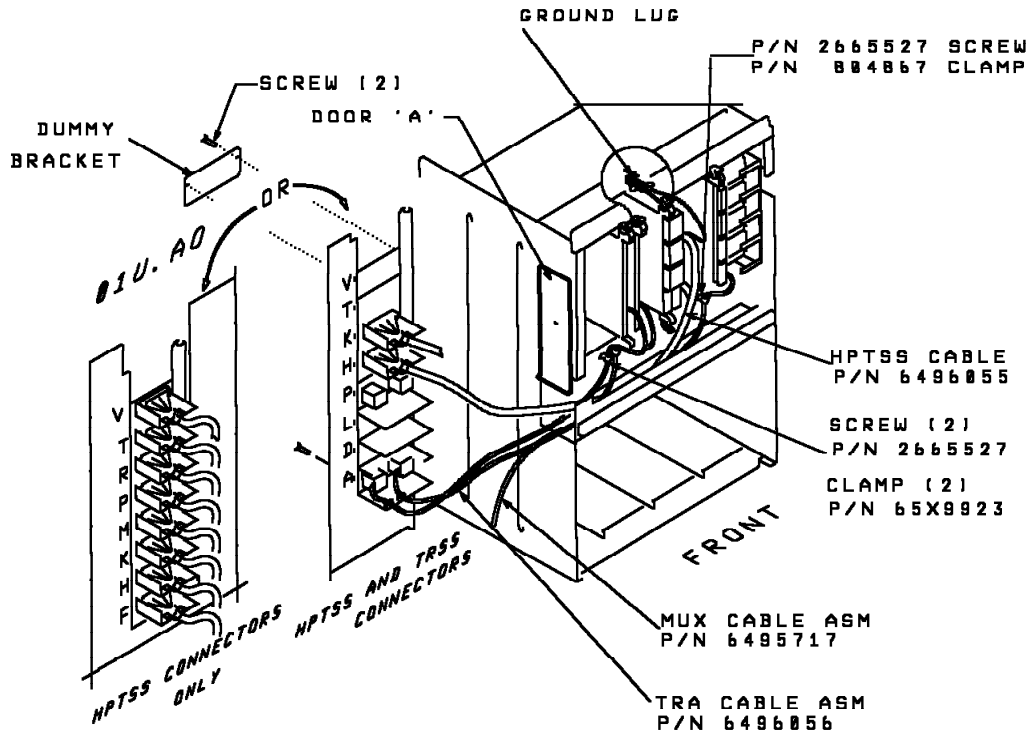
Install Token-ring external cable provided by FFB/M 66X1117 (EMEA ONLY) on tailgate 01U-A0. For APG/AG and Domestic, external cables are supplied thru customer order.

10.4.4 Skip to step 10.7.

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10.5 High speed scanner installation.(HPTSS).

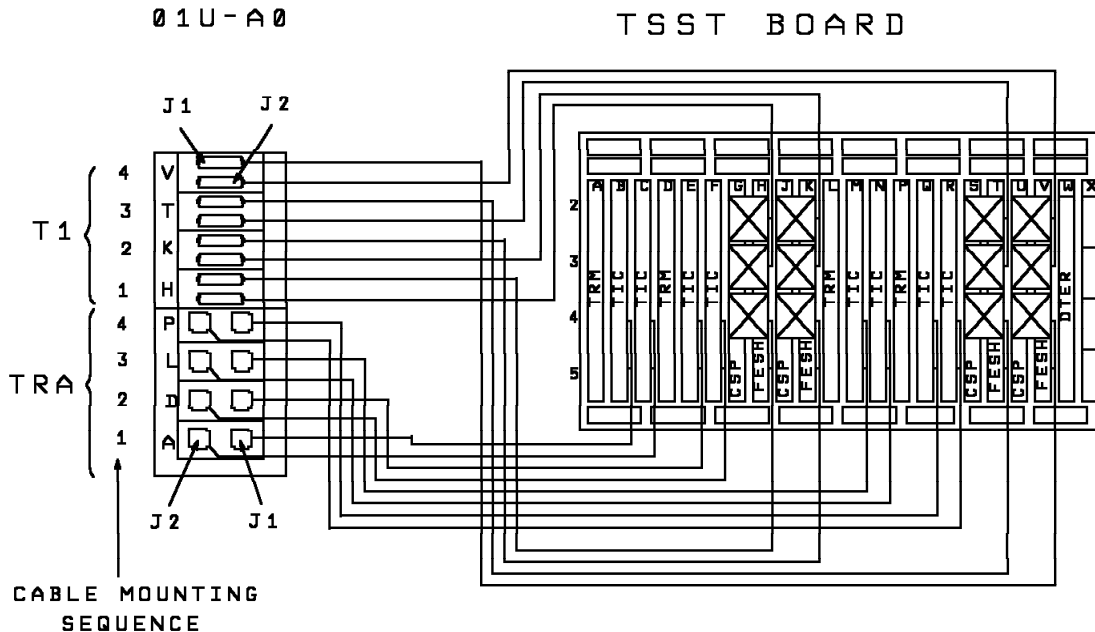
- Open system covers B, C, E of 3745. (See page 15).
- If present, open the shield A and locate the TSST or TSSB board in position 01G-A1.
- Remove dummy cards or IOC bypass card (BPC1) from positions where feature will be installed according to HONE Configurator sheet and step 4.0.



- Slide the door indicated A up.

10.5.1 Internal HPTSS cable installation.

- From the rear of 3745, locate 01U-A0 tailgate, and remove dummy bracket from position identified in step 4.0.
Retain the screws.



- In same position install the HPTSS cable ASM P/N 6496055 using the 2 screws retained in previous step.
Route the cable to 01G gate.

10.5.2 Card installation.

- Verify that holders P/N 1953244 (2) are installed on HPTSS cards. (provided by card group B/M 66X0068).
 - Plug the HPTSS cards in board 01G-A1 in positions determined in step 4.0.
- Note:** Before plugging FESH card in board, connect the HPTSS cable connectors in sockets J1 and J2 of the card.
- Plug the 3 crossovers in top card connectors W, X, and Y of HPTSS cards.
 - Connect the two ground wires of cable ASM to the ground lugs above the 01G gate.

10.5.3 External cables.

- Connect the HPTSS external cable provided by FFB/M 66X0084 or 66X0088 (EMEA only) in tail gate connector. In domestic and APG/AG the cable is provided thru customer order chart.

If you are not installing the first HPTSS, go to step 10.7.
Otherwise proceed.

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10.5.4 First HPTSS in 3745.

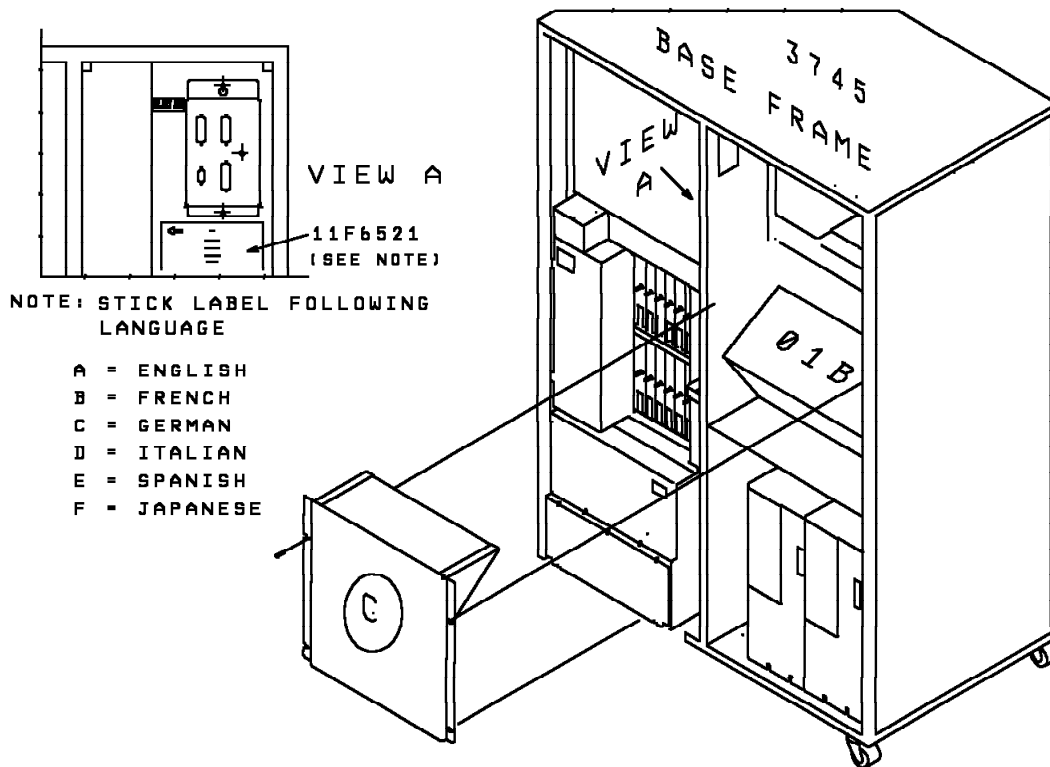
Warning: For this step, the complete 3745 must be POWERED OFF.

At the installation of the first HPTSS in 3745, you have to install:

- For 3745 MODEL 210/310: one DMSW card and one terminator card (DTER).
- For 3745 MODEL 410/610: two DMSW cards and one terminator card (DTER).

10.5.5 DMSW card installation in 3745.

Check that holder P/N 1953244 is installed on DTER card and plug the card in 01G-A1W2.

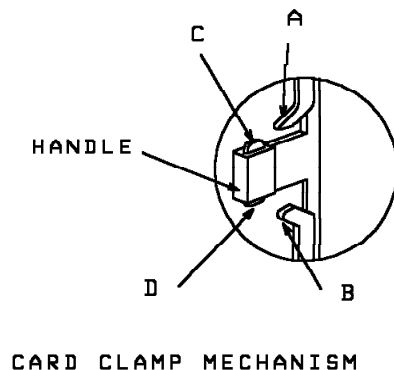


From the rear of the machine,

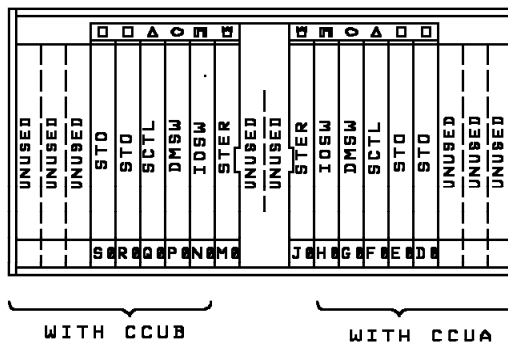
- Remove the shield C with 4 screws and locate the 01B area.

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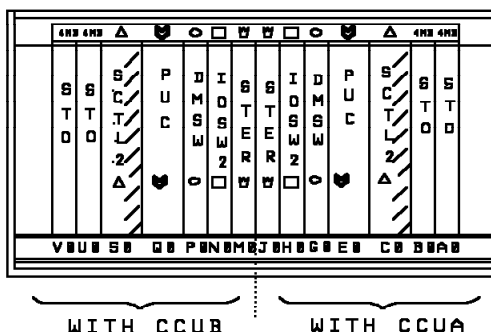
- Using both hands, move levers A and B outwards simultaneously at positions:
01B-G0 for a 3745 MODEL 210/310
or 01B-G0 and 01B-P0 for a 3745 MODEL 410/610
and remove dummy cards.



**SACU/SACL CARD LOCATIONS
FOR MODELS 210/410**



**SACU/SACL CARD LOCATIONS
FOR MODELS 310/610**



- Install with care the DMSW card(s) as follows :(see figure for card clamp mechanism).
Insert the card(s) in its slot (G0) or (G0 and P0) and press in catches B and C, and push gently the handle till the card(s) lock(s) in place.
Using both hands, move levers A and B inwards simultaneously.
- Reinstall the shield over 01B area.
- On P/N 11F6521, choose label corresponding to the country and stick it on frame as shown on figure.

10.5.6 Skip to step 10.7.

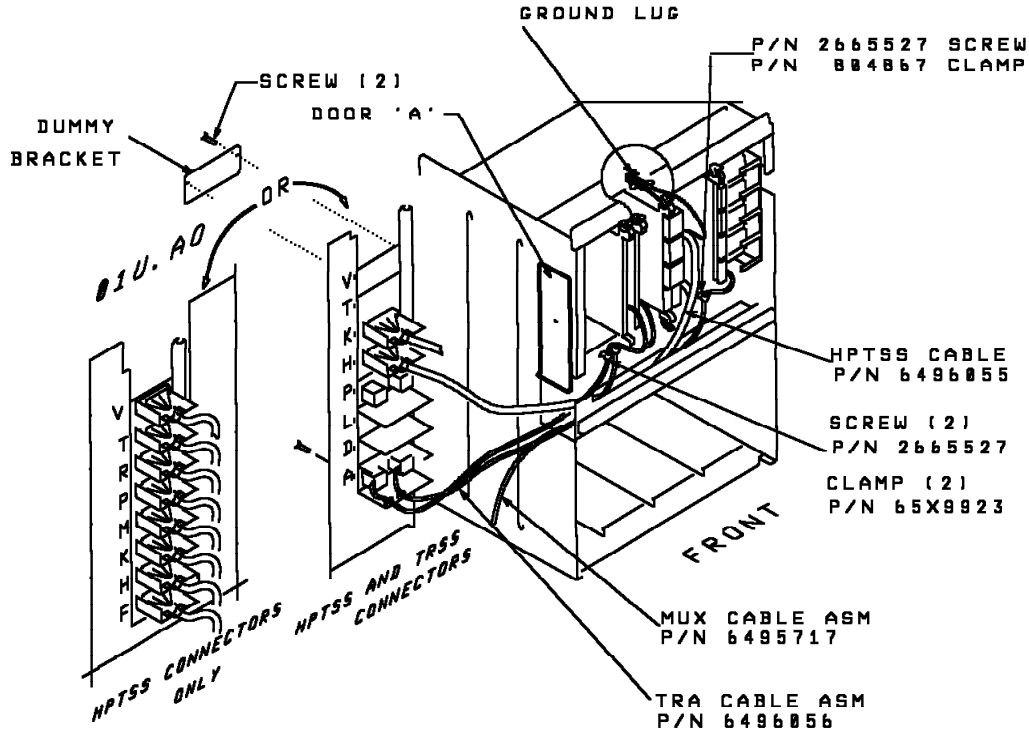
10.6 Low speed scanner (TSS) installation.

With the HONE Configurator sheet and tables in step 4.0, identify the frame, and locate the adapter enclosure (01G, 02A, 02F, or 03F) where the adapter will be installed.

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10.6.1 Card installation.

- Open the corresponding system cover and the shield over the adapter enclosure.
- Remove dummy cards or IOC bypass card (BPC1) from position where feature will be installed according to configurator sheet and step 4.0.



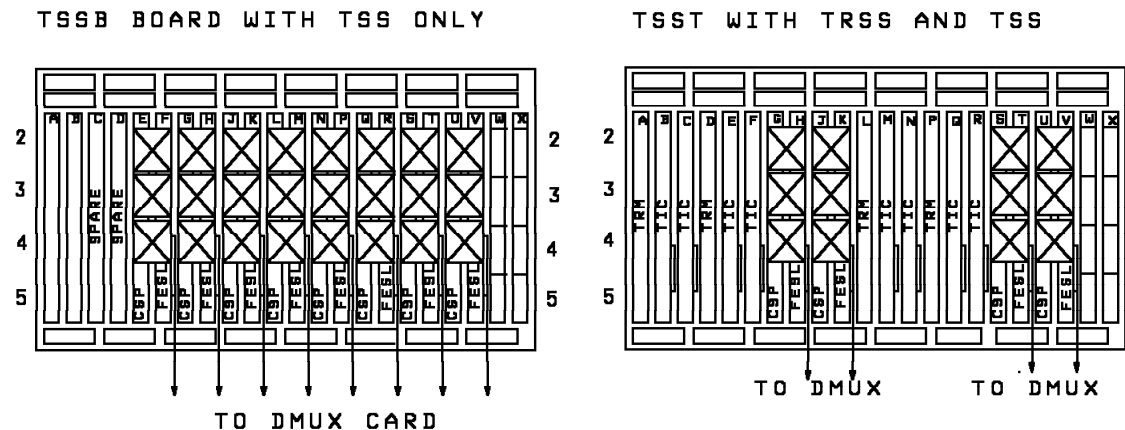
- Slide the door A UP.
- Write the adapter position on label P/N 811825 and stick a label on both ends of MUX cable P/N 6495717 or P/N 03F7712.

Note: MUX cable P/N 03F7712 is longer than P/N 6495717 and must be used when connecting a Line Adapter in the 3746-A12 to a DMUX/SMUX card located in the front or rear bottom position of 3746-L15.

- Verify that holders P/N 1953244 (2) are installed on TSS cards.
- Plug TSS cards in position determined in step 4.0.

Note: Before locking of FESL card plug the MUX cable in connector J2 of the card.

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- Plug the three crossovers on top card connectors W,X,Y of TSS cards.

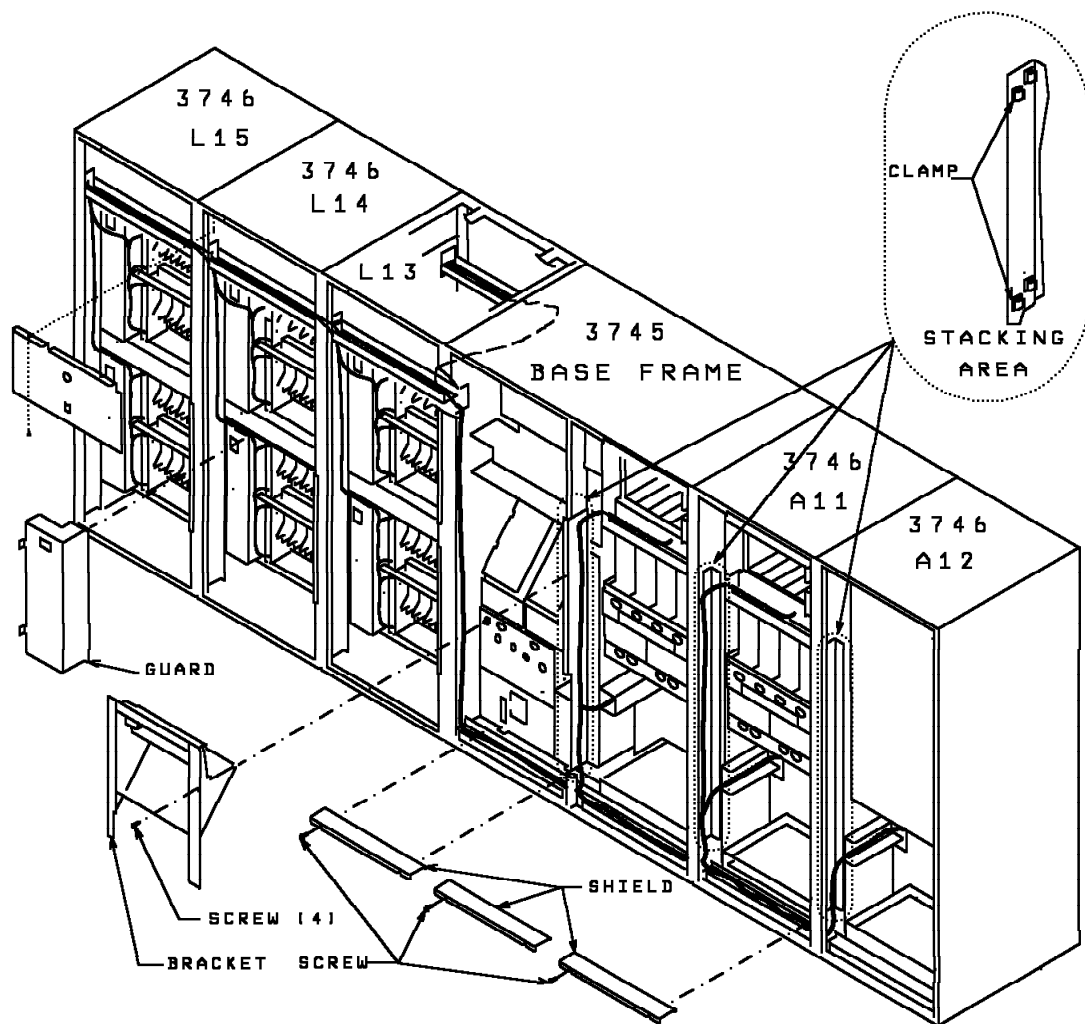
10.6.2 MUX cable installation.

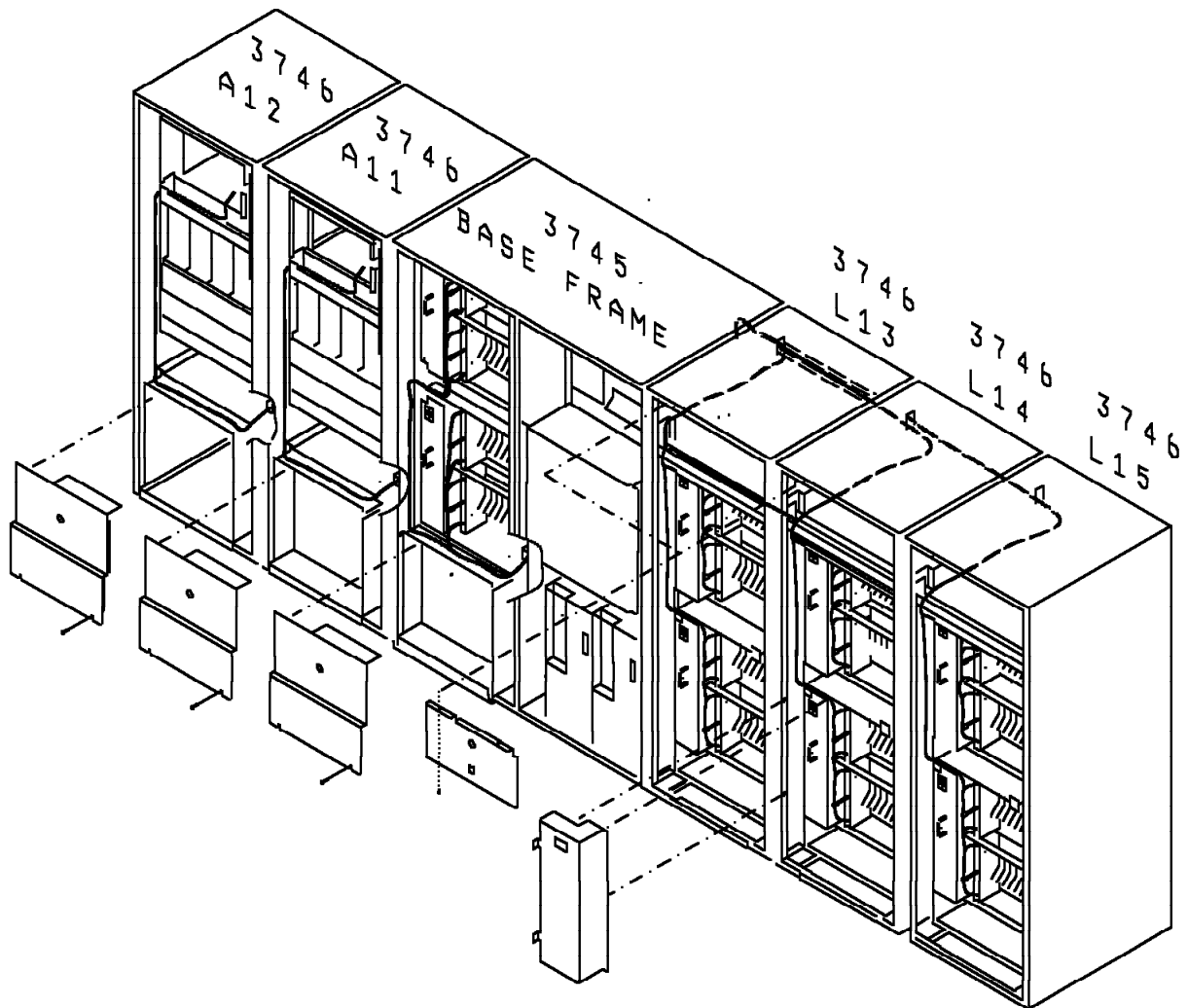
- Secure MUX cable with clamp P/N 804867 and screw P/N 2665527 on 01G gate.

Using the Configurator sheet, locate the line unit and the DMUX/SMUX card associated to the TSS.

Note

- A DMUX card is plugged in position B0 of each LIB1 board. If only one MUX cable is connected on socket Z of DMUX card, the associated scanner will handle the full board (8 LICs) If a second MUX cable is connected on socket W, the two associated scanners will drive 4 LICS each.
- A SMUX card is plugged in position B0 of each LIB2 board. SMUXA is plugged in bottom board of LIC Unit and SMUXB in top board. The scanner connected in SMUXA, can drive the 2 LIC boards. If a second scanner is connected in SMUXB, each scanner will drive a LIC board.





Depending the position of LIC unit, you may have to remove several shields or covers over raceways for a proper cable routing.

- Route MUX cable from TSS enclosure to DMUX/SMUX card and plug cable end in socket W of DMUX/SMUXB card or Z of DMUX/SMUXA card. (based on HONE Configurator sheet).
- Secure cable in clamps in stacking cable area.

10.7 Power supply installation (if required).

If you have installed a line adapter in an ODD position (1,3,5,) you must install a line adapter power block.(PSTY4).

If you do not install a PSTY4 skip to 10.8.

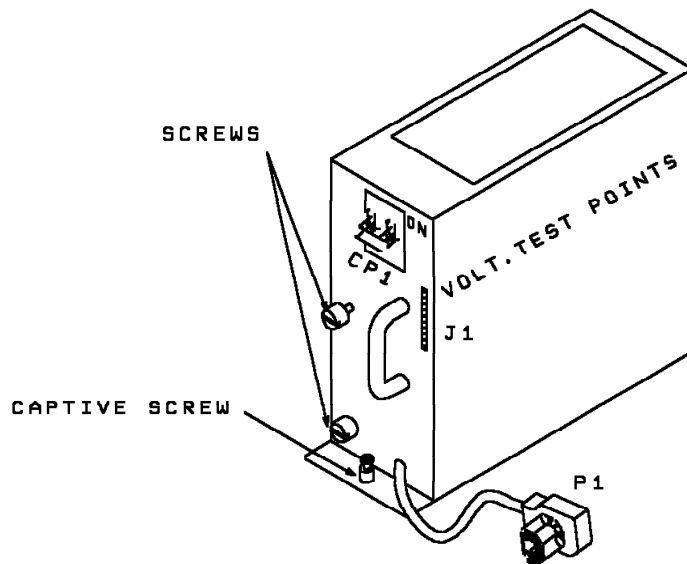
Note: A PSTY4 feeds 2 Line adapters.

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CAUTION

1- Verify all PSTY4 packing material is removed. 2- The two power screws are very easily cross threaded. If cross threading occurs correct voltage levels may not be achieved. The following procedure is suggested to prevent cross threading. While applying a small amount of pressure, turn the screws counter clockwise one full turn before beginning clockwise rotation and thread engagement.

10.7.1 PSTY4 installation.



- Locate the power box and identify the PSTY4 per tables in step 4.0
- Remove dummy bracket P/N 58X9377 with a screw from identified power block position.
- Slide line adapter power supply P/N 6495672 into identified position.
Tighten the two front screws then captive screw on the bottom front of PSTY4.
- Plug the power plug P1 into the appropriate plug position of auxiliary power box.
- Be sure that the CP1 on power supply is on *ON* position.

10.8 Covers.

Slide the door on the left side of adapter enclosure **DOWN**.

Close all shields opened in previous steps.

If you have installed the first HPTSS in 3745, or if you have installed the feature with complete 3745 POWER OFF, proceed.

Otherwise , go to step 11.2.

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10.9 Power on.

10.9.1 Switch CB1 ON, and close system covers

10.9.2 On control panel:

Press *Function* key until *1* is displayed.

Press *Validate* key.

Press *Power on* key.

11.0 TEST PROCEDURES:

This procedure must be followed if the complete 3745 has been powered OFF

11.1 Test after complete POWER OFF.

11.1.1 On local console:

- When the *CA interface display screen* is displayed, Press *F4*.
- Enter *Maintenance Password*, Press *SEND*.
- If you have not installed a PSTY4, skip to step 11.1.3.

11.1.2 Create the power configuration table.

- Enter *POS*, press *SEND*.
- Enter *C* (create), Press *SEND*.
Verify that the ID of PSTY4 you have installed is displayed.
- Enter *Y* to confirm, Press *SEND*.
- Select one option (1, 2, or 3) and display the power information for the frame where you have installed the PSTY4.
Press *SEND*.
The power status is *DOWN* for the new power.
- Enter *UXX* to set the power *UP*.
Verify that the PSTY4 goes in *UP* state.
Press *F1*.

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11.1.3 Update the Configuration Data File (CDF).

- Enter *CDF*, Press *Send*.
- Select *Verify*, Enter 4, press *Send*.
The values from the disk and the machine should be identical except for the adapter you have just installed.
To update the CDF with machine values, enter 2, Press *Send* .
- When function completed, *CDF verify completed* msg is displayed.
Press *F6*.
- If adapters are not recognized go to MIP and follow appropriate procedure.

11.1.4 Display the Configuration Data File (CDF).

- Select *DISPLAY/UPDATE*, Enter 1, Press *SEND*.
 - Select *LA*, Enter 7, Press *SEND*.
Y should appear under the LA number you have just installed.
Check the *LA type* value.
 - : 1 for TSS
 - : 2 for HPTSS
 - : 3 for TRSS
- If you have installed the first HPTSS in 3745, Press *F6* and proceed.
If not, Press *F1* and go to step 11.1.5.

- Select *DISPLAY/UPDATE*, Enter 1, Press *SEND*.
- Select *SWITCH*, Enter 5, Press *SEND*.
Verify the DMSW presence in CCU A and CCU B (if installed).
Press *F1*.

11.1.5 Run Diagnostics.

- Enter *ODG*, Press *SEND*.
- Enter 5 for TSS,
or 6 for TRSS,
or 7 for HPTSS.
Enter the *Adapter Number*, Press *SEND*.
- If any error is reported, go to *Maintenance Information Procedure (MIP)* chapter 2 and follow appropriate procedures.
- If no error reported, press *F1*.

11.1.6 Save Disk contents onto BACK-UP set of diskettes.

- Select *DIF*, Press *SEND*.
- Select 2.
Enter the date and save-ID and press *SEND*.
Follow prompts on console.
- When function complete, Press *F1*.

11.1.7 Logoff the console.

Re-enable the channel adapters disabled in step 10.1.2.

11.1.8 General IPL.

On control Panel.

- Set *Power Control* indicator to its original value recorded in step 10.1.1.
- Set the *Function* indicator value to 0 (general IPL).
- Press *Validate* key.
General IPL starts.

If steady *FF4* code is displayed on control panel, ask customer to load the control program.
If Control program is loaded from hard disk, *000* will be displayed when *IPL* successful.

Note: Control program load can fail if a mismatch exists between control program and hardware configuration.

Go to step 12.0.

11.2 Tests procedure after LA installation with 3745 power On.

11.2.1 Create the power configuration table.

Note: If do not have installed a PSTY4, go to next step.
If you have installed a new PSTY4 proceed.

- Enter *POS*, Press *SEND*.
- Enter *C* (create), Press *SEND*.
Verify that the ID of PS you have installed is displayed.
- Enter *Y* to confirm, Press *SEND*.
- Select one option (1, 2, or 3) and display the power information for the frame where you have installed the PSTY4.
Press *SEND*.

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11.2.2 Set power supply UP.

- The power status is *DOWN* for the PSTY4.
- Enter *UXX* to set the power supply *UP*.
Verify that the PSTY4 goes in *UP* state.
Press *F1*.

11.2.3 Update the Configuration Data File (CDF).

Note: To prevent message "Port already installed" during the CDF update, and if you have installed a LSS and connected the MUX cable to the upper port of existing DMUX or SMUXB, deactivate existing lines connected to LIC positions G0 to K0 of LIU1, or to LICs installed in top board of LIU2.

- Select *LA*, Press *SEND*.
N is displayed under the *LA* you have just installed.
- Enter the *LA* number, Press *SEND*.
Press *F5* (Update).
- Enter the *LA* type, Press *SEND*.
- Wait for *CDF LA change completed* message.
Press *F6*.
- *Y* is now displayed under the *LA* number. Verify the *LA* type.
Press *F1*.

(If you have installed a TSS or HPTSS skip to next step).

11.2.4 Change the mode of the TRA.

To run diags, TRA must be in *Disconnect* mode.

- Enter *TRS*, (TRSS services) Press *SEND*.
Choose option 1, Press *SEND*
- Enter the TRA number, Press *SEND*.
Move the cursor to selection area, then
- Choose option 2, Press *SEND*
- Enter *DS* to set the TRA in *Disconnect* mode, Press *SEND*.
Press *F1*.

11.2.5 Run Concurrent diagnostics.

Note: Do not run concurrent TRSS diagnostics if MCF m025A213 is applied. See RETAIN h0944637 for details.

- Enter *CDG*, Press *SEND*.
- Enter 5 for TSS,
or 7 for HPTSS,
or 6 for TRSS,
Enter the *Adapter Number*, Press *SEND*.
- If any error is reported, go to *Maintenance Information Procedure (MIP)* chapter 2 and follow appropriate procedures.

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- If no error reported, press *F1*.

11.2.6 RE-IML the scanner.

(If you have installed a TRSS go to next step).

- Enter *IMS*, Press *SEND*.
- Enter *SXX* (XX being the LA number), Press *SEND*
Wait for operation complete. When function complete, the scanner is connected to NCP.

Note: Repeat this step for the adjacent scanner if required.

11.2.7 Reconnect a TRA to NCP.

(If you have installed a TSS or a HPTSS go to next step).

- Enter *TRS*, Press *SEND*.
- Enter *1* to go in *SELECT* mode, Press *SEND*.
Enter the TRA number, Press *SEND*.
- Move the cursor to the selection area, then enter *2*, (Connect/ disconnect).
Press *SEND*.
Enter *CT* (Connect), Press *SEND*, to connect the TRA to NCP.
- When a TRA is connected to NCP, and if you have a second TRA to be connected to NCP, release this first TRA number via option *1* of *TRS* function, and repeat this step for the second TRA.
- Press *F1*.

11.2.8 Set the MOSS OFF-LINE.

- Enter *MOF*, Press *SEND*.

Note: If 3745 model 410/610, CCU must be selected with *CSR* function before performing *MOF* function.

Perform *CSR/MOF* sequence for each CCU.

- Press *F1*.

11.2.9 Save Disk contents onto BACK UP set of diskettes.

- Enter *DIF*, Press *ENTER*.
- Enter *2*.
Enter the date and save-ID and press *SEND*.
Follow promptings on console.
- When function complete, Press *F1*.

11.2.10 Logoff the console

Ask customer to activate resources on new adapter if NCP is configured.

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AFTER INSTALLATION. (Steps 12-15)

12.0 FIELD UPDATING:

Update page YZ839 for line adapter type and TSS/DMUX/SMUX card relationship.

13.0 FIELD SUPPORT PUBLICATIONS:

None

14.0 PARTS DISPOSITION:

- **Purchased Machines:** Refer to the parts ownership matrix to determine the correct owner of removed/unused parts.
 - For EMEA/APG/AG Area, refer to *H.W. and General Service Code Description*
 - For Domestic Area, return parts to customer.

All parts determined to be the property of IBM should be processed as stated in the rental machine directions below.

- **Rental Machines:** Return all parts to the IBM branch office for potential return in accordance with existing return, recovery, and reclamation programs.

15.0 MACHINE RECORDS:

- Install the new *MACHINE HISTORY* supplied .
- Report installation and quality to existing procedures use service code 31.

END OF INSTRUCTIONS

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Revisions

<u>id</u>	<u>File</u>	<u>Page</u>	<u>References</u>
1	P66X0032 SCRIPT	1	

Processing Options

Runtime values:

Document fileid	P66X0032 SCRIPT
Document type	PNCDOC
Document style	DEFAULT
Profile	EDFPRF30
Service Level	21Jun90
SCRIPT/VS Release	3.2.1
Date	91.11.15
Time	12:46:46
Device	3820A
Number of Passes	2
Index	YES
SYSVAR G	INLINE
SYSVAR P	3820
SYSVAR R	XREF
SYSVAR U	FNT382SS
SYSVAR W	XREF

Formatting values used:

Annotation	NO
Cross reference listing	YES
Cross reference head prefix only	NO
Dialog	LABEL
Duplex	NO
DVCF conditions file	(none)
DVCF value 1	(none)
DVCF value 2	(none)
DVCF value 3	(none)
DVCF value 4	(none)
DVCF value 5	(none)
DVCF value 6	(none)
DVCF value 7	(none)
DVCF value 8	(none)
DVCF value 9	(none)
Explode	NO
Figure list on new page	YES
Figure/table number separation	YES
Folio-by-chapter	NO
Head 0 body text	(none)
Head 1 body text	(none)
Hyphenation	YES
Justification	NO
Language	ENGL
Layout	1
Leader dots	YES
Master index	(none)
Partial TOC (maximum level)	4
Partial TOC (new page after)	INLINE
Print example id's	NO
Print cross reference page numbers	YES
Process value	3820
Punctuation move characters	„
Read cross-reference file	XREF
Running heading/footing rule	NONE
Show index entries	NO
Table of Contents (maximum level)	3
Table list on new page	YES
Title page (draft) alignment	CENTER
Write cross-reference file	XREF