



Field Feature Bill of Material (FFBM)

PN 76F9478

INSTALLATION of a Backup AC Input 60 Hz (FC 5000) in IBM 3746 Model 900

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Before Installation (Steps 1-8)

1.0 Machines Affected

3746 Model 900.

2.0 Related BMs and ECs

Equivalent power cord FFBM.

3.0 FFBMs to be Installed

- 76F9478 - Installation instructions and
- 58G5391 - Backup AC input 60Hz (English/US)
- or 58G5396 - Backup AC input 60Hz (Spanish)
- or 58G5398 - Backup AC input 60Hz (Japanese)
- or 58G5399 - Backup AC input 60Hz (Portuguese).

4.0 Preparation

- 1. Familiarize yourself with the purpose and details of these installation instructions before negotiating machine time with the customer.
- 2. Check all the items and count the parts listed on the B/M(s) to be installed to determine whether all the parts were received.

5.0 Programming

5.1 Diagnostic Programs

None.

6.0 Purpose and Description

6.1 Purpose

Install a backup AC input (60 Hz) in a 3746 Model 900.

6.2 Description

Install an AC input and the power cord.

7.0 Installation Time

FFB/M Installed	Machine Hours	System Hours	Nbr of CE
76F9478	1.0	0.0	2

8.0 Tools/Materials Required

ESD kit (PN 6428316).

Installation (Steps 9-11)

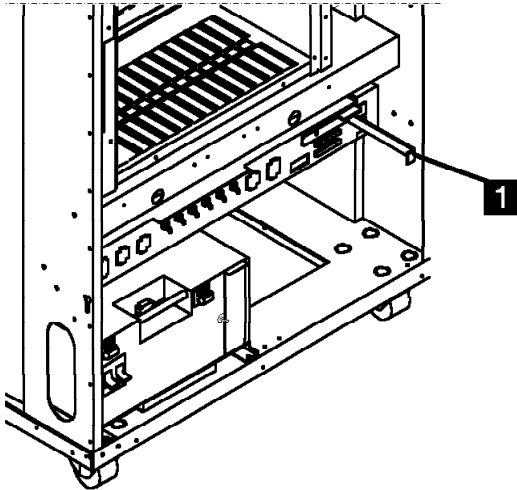
9.0 Safety

Review the **Safety Notices** and the **Safety Inspection Procedures** located at the beginning of the *3745 Maintenance Information Procedure (MIP)* manual, SY33-2054.

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10.0 Hardware Installation

- 1. From the control panel of the 3746-900, set the **Power Control** indicator to **3**, and press the **Validate** key.
- 2. Open the front and rear system covers. From the front side of the 3746-900:
- 3. From the power distribution box DCDP, activate the maintenance switch by pulling the lever outwards **1**.

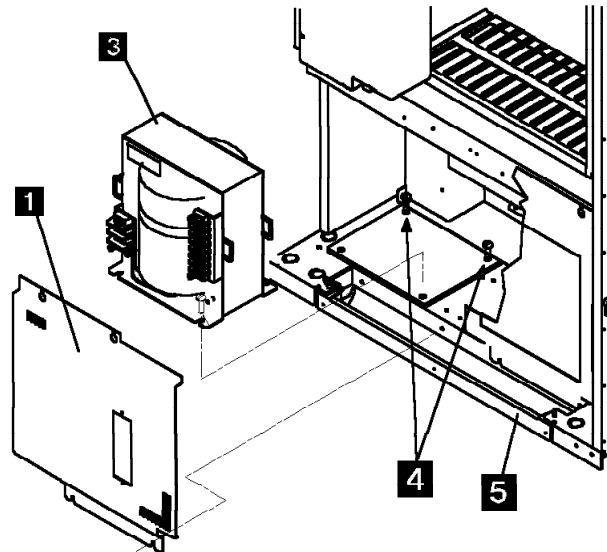


Important note

This will prevent the main -48v dropping and stop the power monitoring. An alarm will be displayed on the Service Processor as follows.

MAINTENANCE SWITCH ON DCDP PULLED OUT, POWER/BLOWER MONITORING FUNCTION STOPPED.

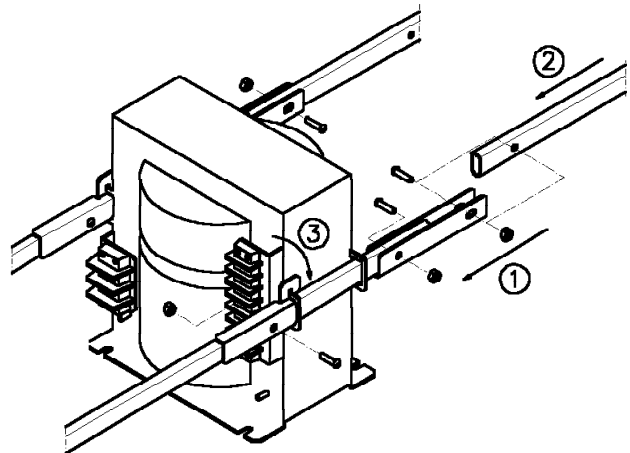
- 2. Install two screws (PN 1621596) as shown on the figure **4**.
- 3. Remove the cable retaining bar **5** (two wing-nuts).



Important Note

Two persons are necessary to move the transformer using the special bars as shown in the following figure.

- 4. Install the transformer **3** (PN 03F7616), using kit (PN 76F9374 (2)) provided with the transformer (BM 17G5921).

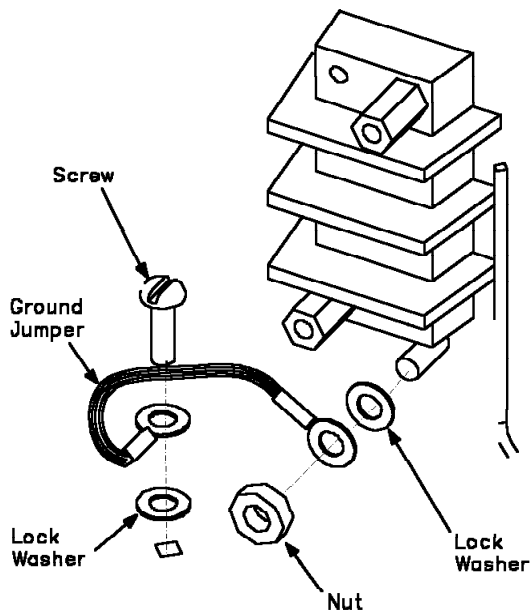
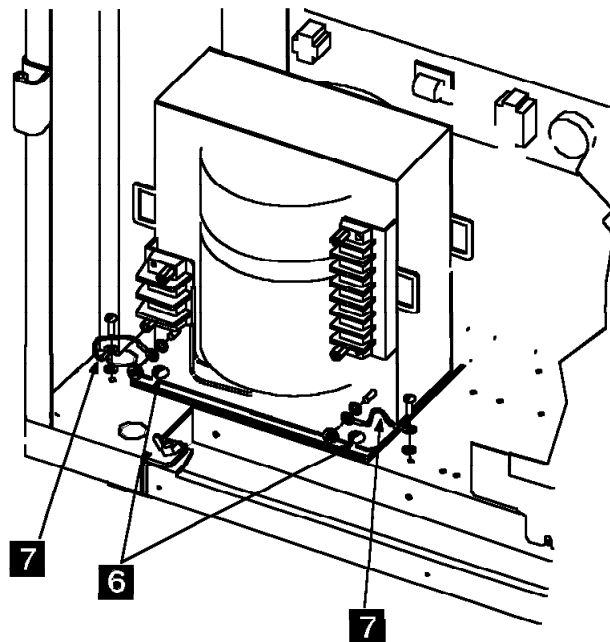


10.1 Transformer Installation

From the rear side of the 3746-900:

- 1. Remove the left transformer cover loosening the four screws **1**.

- 5. Install two screws (PN 1621596) at the front of the transformer .**6**..

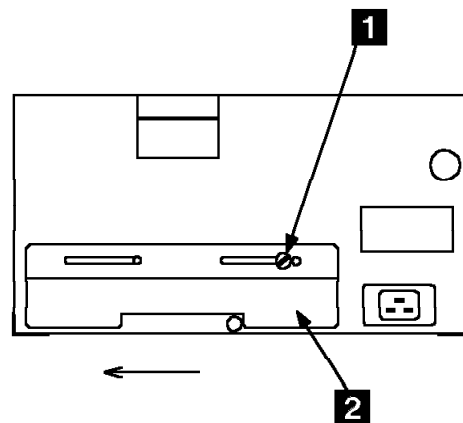


- 6. Tighten the four mounting screws.
- 7. Install the two ground jumpers (PN 63F2459) to the transformer, using four lockwashers (PN 17G5853), two screws (PN 1621210), and two nuts (PN 1622404) .**7**..

10.2 AC Box Installation

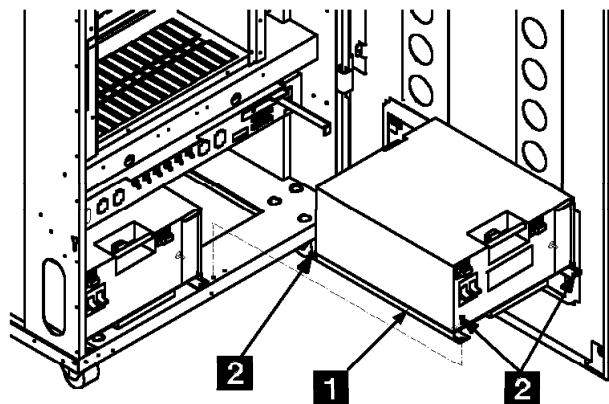
Unpack the AC box and from the rear side:

- 1. Loosen the screw .**1**..
- 2. Slide the bracket .**2**. to the left and secure the screw .**1**..



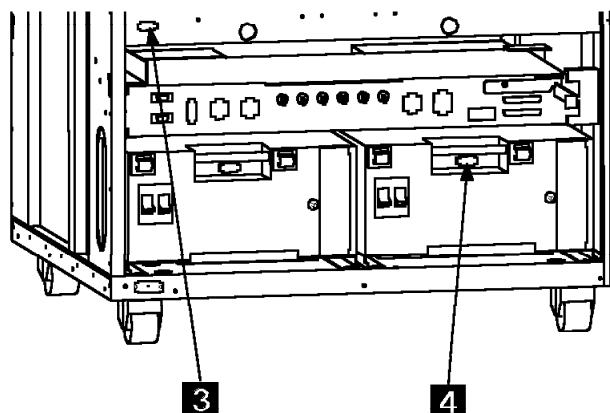
From the front side of the 3746-900:

- 1. Install the AC box .**1**. with three screws (PN 1621210) .**2**..



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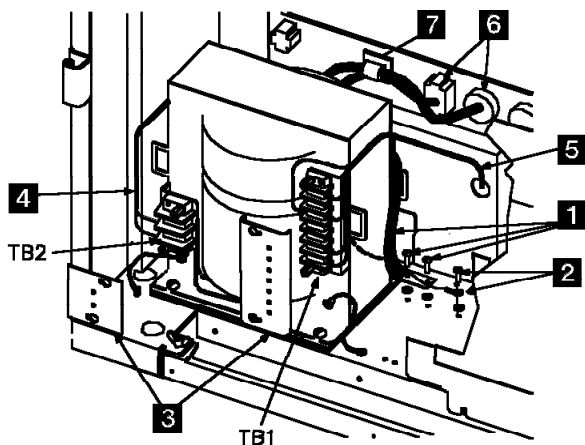
- 2. Unplug the cable from the dummy connector .3. and replug to J1 .4. of the ACPW.



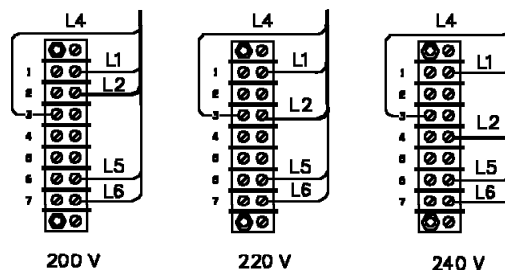
From the rear side of the 3746-900:

Note: To avoid damage, carefully route the cables and ground straps to the rear of the machine.

- 1. Secure the green/yellow braid from AC box with two screws (PN 1621210), and two lockwashers (17G5853) .1..
- 2. Secure the green/yellow cable from AC box with one screw (PN 1621210), and one lockwasher (17G5853) .2..
- 3. Unfasten the four screws securing TB1 and TB2 shields. Remove and save TB1 and TB2 shields .3..
- 4. Install the cable (PN 63F2483) .4. from the AC box to the transformer TB2. One lead on position 8 and the other on position 9.



- 5. Install the cable (PN 03F7611) from the AC box to the transformer TB1 .5.. The following figure shows the lead positions.

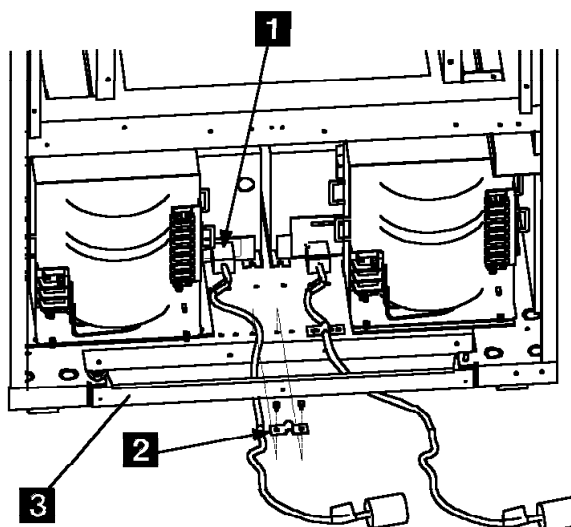


- 6. Reinstall the TB1 and TB2 shields.
- 7. Route and plug the cables (PN 03F7614 and 03F7613) from AC box to the distribution box (J9 and J10) .6..
- 8. Secure these two cables in clamp .7..

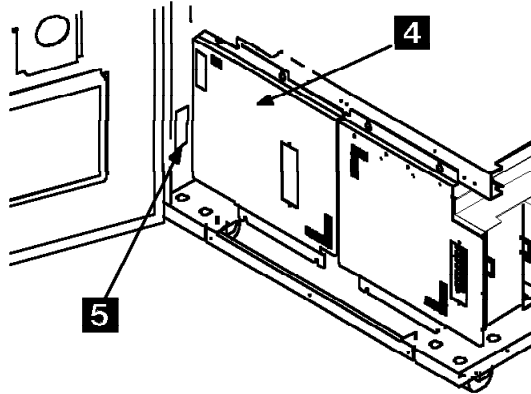
10.3 Power Cord Installation

From the rear side of the 3746-900:

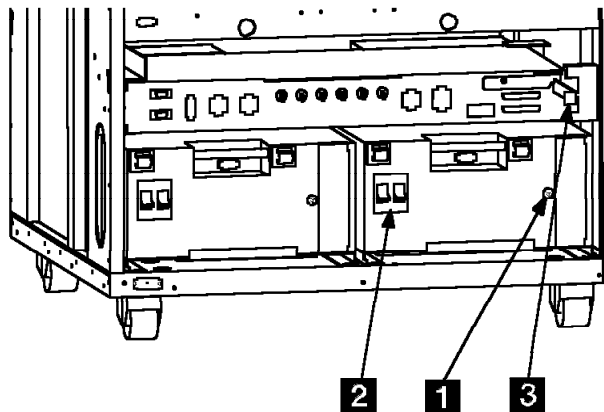
- 1. Plug the power cord provided by the FFB/M to the AC box .1..
- 2. Install the clamp (PN 2980188) with two screws (61F4513) .2..
- 3. Reinstall the cable retaining bar .3. previously removed.



- 4. Reinstall the transformer cover (four screws) **.4.**
- 5. Affix the power rating plate on the main frame **.5.**
- 6. Plug the power cord to the wall socket (provided by customer).



10.4 Power ON



- 1. From the AC backup power box, switch **CP1 .1.** and **CB1 .2.** ON.
- 2. Push in the lever of the maintenance switch **.3.**

Important note

This action will display an alarm on the Service Processor:
MAINTENANCE SWITCH ON DCDP PUSHED IN, POWER/BLOWER MONITORING FUNCTION RESTARTED.
 If another alarm is displayed, see the *MIP Manual*, SY33-2054.

- 3. Close the rear and front covers.
- 4. From the control panel of the 3746-900, set the **Power Control** indicator to its original value, press the **Validate** key.

11.0 Test Procedures

None.

After Installation (steps 12-15)

12.0 Field Updating

None.

13.0 Publications Update

None.

14.0 Parts Disposition

14.1 Purchased Machines

Refer to the parts ownership matrix to determine the correct owner of removed/unused parts.

- For EMEA/APG/AG Areas, refer to *Hardware and General Service Code Description*.
- For Domestic Areas, return parts to the customer.

15.0 Machine Records

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

End of instructions.

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CC	P76F9478 SCRIPT	3	4.0, Preparation
PP	AFTRINS2	7	After Installation (steps 12-15)

Revisions			
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3	?	?	?
			3, 3, 4, 4, 4, 4, 5, 5
1	?	?	?
			3, 3, 4, 4, 5, 5, 5, 5, 5, 5, 5, 5, 6, 6, 6, 6, 7, 7, 7
2	?	?	?
			4, 4, 5, 5, 6, 6

Processing Options			
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Runtime values:

Document fileid	P76F9478 SCRIPT
Document type	PNCDOC
Document style	FBII
Profile	EDFPRF30
Service Level	21Jun90
SCRIPT/VS Release	3.2.1
Date	93.07.19
Time	10:34:12
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	SB
DVCF conditions file	(none)
DVCF value 1	(none)
DVCF value 2	(none)
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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	2
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

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