



## Field Feature Bill of Material (FFBM)

**PN 76F9476**

### **INSTALLATION of a Backup AC Input 50 Hz (FC 5000) in IBM 3746 Model 900**

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Approved by: F. Charron  
Reviewed by: B. Kelly

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3746  
FFBM

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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

- 76F9476 - Installation instructions and
- 58G5390 - Backup AC input 50Hz (English)
- or 58G5392 - Backup AC input 50Hz (French)
- or 58G5393 - Backup AC input 50Hz (German)
- or 58G5394 - Backup AC input 50Hz (Italian)
- or 58G5395 - Backup AC input 50Hz (Spanish)
- or 58G5397 - Backup AC input 50Hz (Japanese).

### 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 (50 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
76F9476	1.0	0.0	2

## 8.0 Tools/Materials Required

ESD kit (PN 6428316).

## Installation (Steps 9-11)

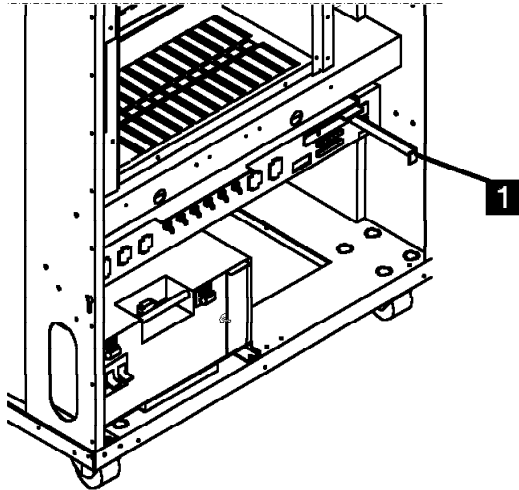
### 9.0 Safety

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**.

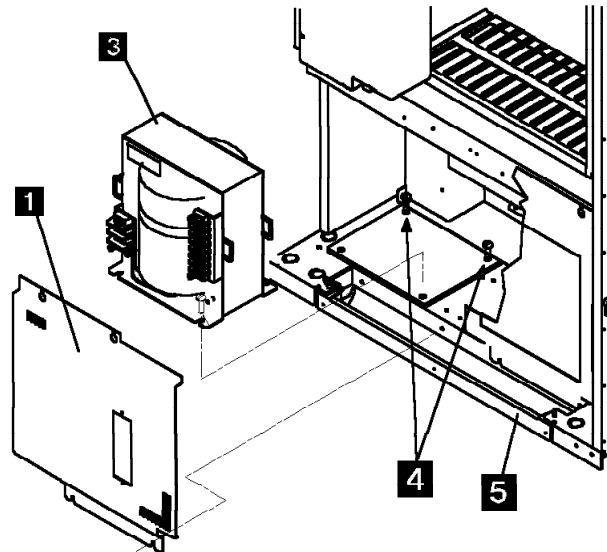


### Important note

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.**

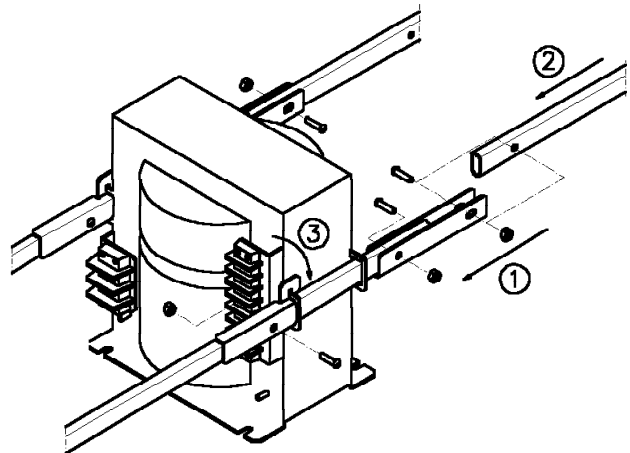
- 2. Install two screws (PN 1621596) as shown on the figure **4**.
- 3. Remove the cable retaining bar **5** (two wing-nuts).



### 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 03F7606), using kit (PN 76F9374 (2)) provided with the transformer (BM 17G5921).

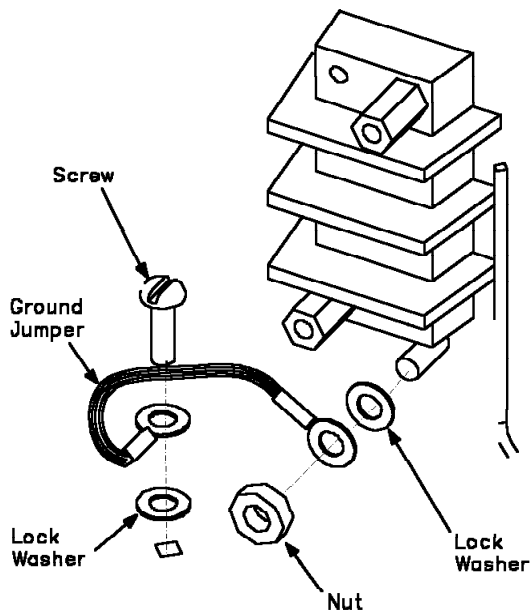
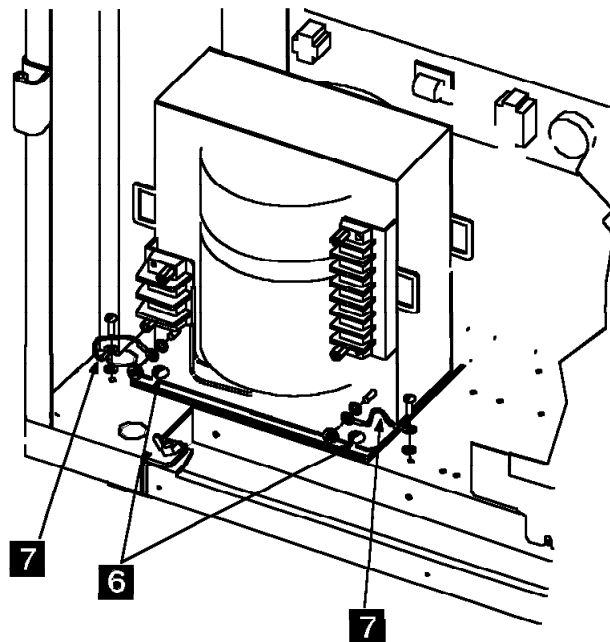


## 10.1 Transformer Installation

From the rear side of the 3746-900:

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

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

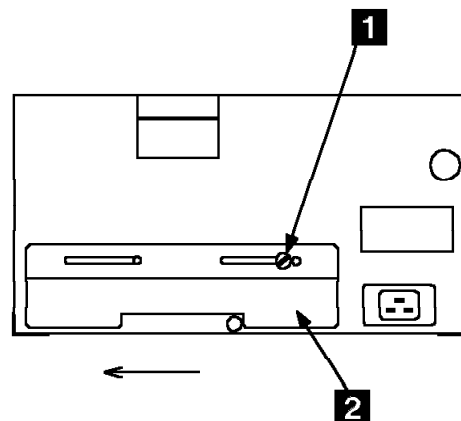


- 6. Tighten the four mounting screws.
- 7. Install the two ground jumpers (PN 63F2459) to the transformer, using four lockwashers (PN 17G5853), two screws (PN 1621210), and two nuts (PN 1622404) .7..

## 10.2 AC Box Installation

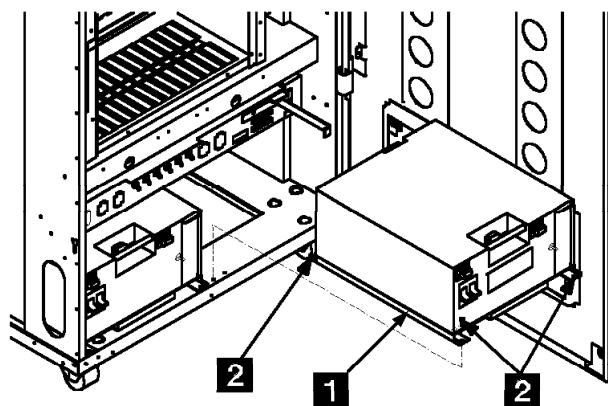
Unpack the AC box and from the rear side:

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



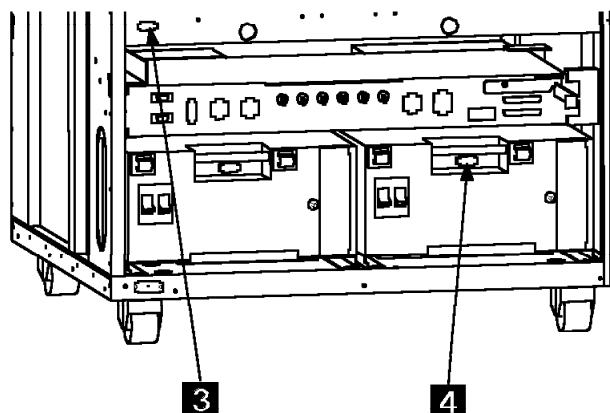
From the front side of the 3746-900:

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



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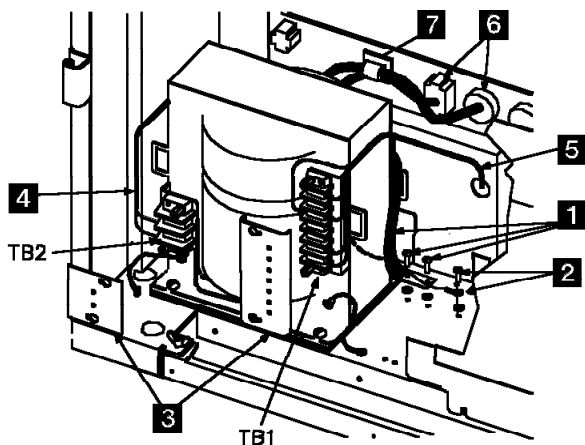
- 2. Unplug the cable from the dummy connector .3. and replug to J1 .4. of the ACPW.



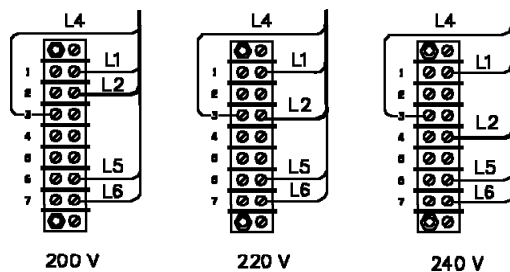
From the rear side of the 3746-900:

**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.

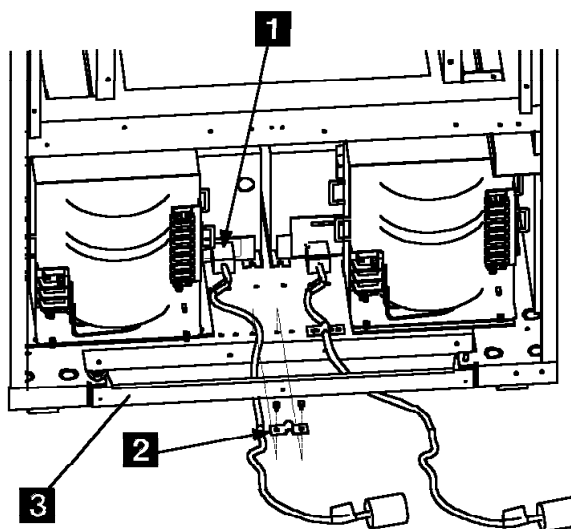


- 6. Reinstall the TB1 and TB2 shields.
- 7. Route and plug the cables (PN 03F7614 and 03F7613) from AC box to the distribution box (J9 and J10) .6..
- 8. Secure these two cables in clamp .7..

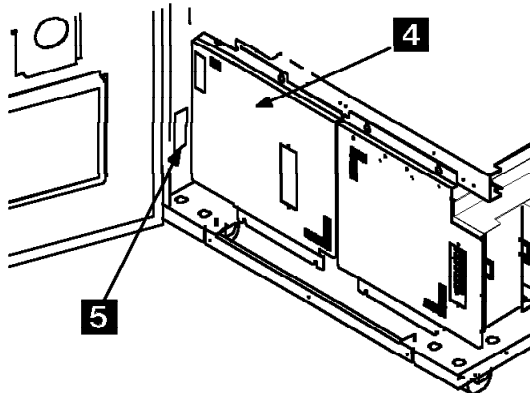
## 10.3 Power Cord Installation

From the rear side of the 3746-900:

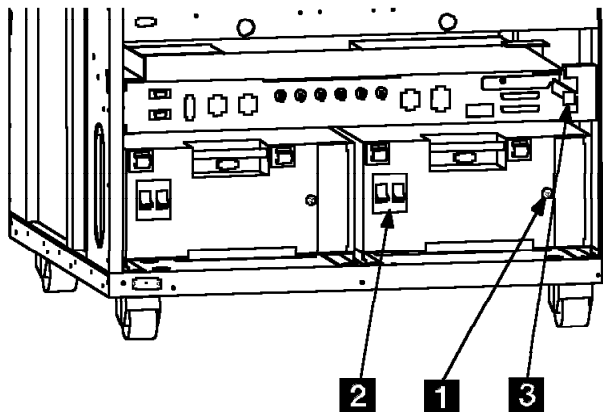
- 1. Plug the power cord provided by the FFB/M to the AC box .1..
- 2. Install the clamp (PN 2980188) with two screws (61F4513) .2..
- 3. Reinstall the cable retaining bar .3. previously removed.



- 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.





Headings			
<u>id</u>	<u>File</u>	<u>Page</u>	<u>References</u>
CC	P76F9476 SCRIPT	3	4.0, Preparation
PP	AFTRINS2	7	After Installation (steps 12-15)

Revisions			
<u>id</u>	<u>File</u>	<u>Page</u>	<u>References</u>
R3	?	?	?
			3, 3, 4, 4, 4, 4, 5, 5
R1	?	?	?
			3, 3, 4, 4, 5, 5, 5, 5, 5, 5, 5, 5, 6, 6, 6, 6, 6, 7, 7, 7
R2	?	?	?
			4, 4, 5, 5, 6, 6

Processing Options			
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Runtime values:

Document fileid .....	P76F9476 SCRIPT
Document type .....	PNCDOC
Document style .....	FBII
Profile .....	EDFPRF30
Service Level .....	21Jun90
SCRIPT/VS Release .....	3.2.1
Date .....	93.07.19
Time .....	10:36:10
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)
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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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