



Field Feature Bill of Material (FFBM)

PN 08J5499

Installation of the 2nd AC Distribution (FC 5002) in IBM 3746 Models 9X0 (Controller Expansion).

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Before Installation (Steps 1-8)

1.0 Machines Affected

3746 Models 900 or 950

This feature should only be applied on the machine serial for which it is specified.

2.0 Related BMs and ECs

None.

3.0 BMs to be Installed

FFBM **Title**

08J5499 Installation of the 2nd AC Distribution (FC 5002).

See table 220/240V Power cords.

Only one of the following FFB/Ms will be received, depending on the base machine country code and the specified code:

FFB/M	Country Code
29H4736	Chicago (USA) with SC 9898 (Locking Plug).
29H4738	Chicago (USA) with SC 9838 (No Locking Plug).
76F9458	USA except Chicago, Canada, Japan, Mexic or USA except Chicago with SC 9028 (Moisture).
76F9459	Chicago (USA) with SC 9028 (Moisture).
76F9460	USA except Chicago, Canada, Japan, Mexic or USA except Chicago with SC 9898 (Locking Plug).
76F9461	USA except Chicago, Canada, Japan, Mexic or USA except Chicago with SC 9838 (No Locking Plug).
09G2989	613.
76F9464	619, 621, 629, 631, 663, 681, 683, 731, 732, 733, 735, 759, 791, 811, 815, 818, 829, 856, 858, 859, 871.
76F9465	615, 646, 652, 808, 864.
76F9466	698, 655, 758, 772.
76F9467	756.
76F9468	796.
76G9470	620, 627, 643, 661, 666, 677, 680, 725, 738, 744, 752, 754, 764, 767, 778, 780, 799, 802, 805, 823, 833, 834, 851, 883.



FFB/M	Country Code
76F9471	610, 612, 614, 618, 624, 644, 654, 656, 660, 664, 668, 679, 682, 702, 706, 724, 726, 732, 740, 742, 749, 750, 757, 766, 768, 773, 774, 776, 777, 782, 783, 784, 786, 788, 794, 802, 806, 813, 820, 821, 822, 824, 826, 832, 838, 840, 842, 846, 850, 853, 862, 865, 866, 869, 876.
76F9472	678, 762, 866, 848.
76F9473	616.
Note: Two cords are provided per FFB/M	

4.0 Preparation.

- Familiarize yourself with the purpose and details of the installation instruction before negotiating machine time with the customer.
- Check all items listed on the BM(s) to determine that all parts have been received.

5.0 Programming

None.

6.0 Purpose and Description

6.1 Purpose

Installation of a new feature.

6.2 Description

Installation of a 2nd AC Distribution box in the 3746-9x0 Controller Expansion.

7.0 Installation Time

FFB/M Installed	Machine Hrs	System Hrs	Nbr of CE
08J5499	0.0	0.0	1

8.0 Tools/Materials Required

None.

Installation (Steps 9-12)

9.0 Safety

Review the **Safety Notices** and the **Safety Inspection Procedures** located at the beginning of the *IBM 3745 Communication Controller All Models, IBM 3746 Expansion Unit Model 900, IBM 3746 Nways Multiprotocol Controller Model 950 Safety Information, GA33-0400*.

10.0 Details of Installation

10.1 Installing a Second ac Outlet Distribution Box

From the rear side of the Controller Expansion:

- ___ 1. Open the Controller Expansion rear door, if not already done.
- ___ 2. **Identify** the location to install the 2nd ac outlet distribution box.

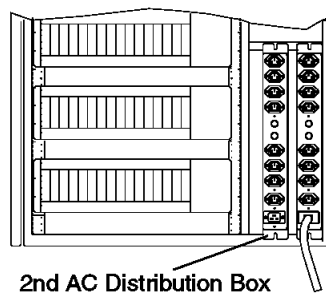


Figure 1. 2nd ac outlet distribution box location.

- ___ 3. **Identify** the location to install the two captive nuts **A** (second hole from the left), if the two captive nuts are already installed go to step 5, otherwise go to step 4.

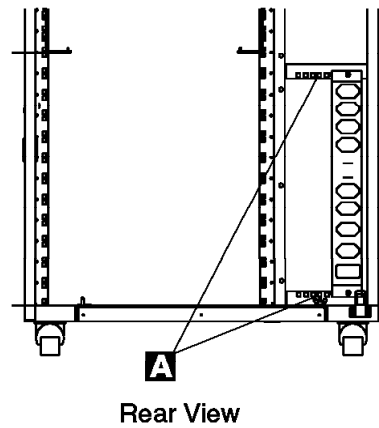


Figure 2. Locating the Captive Nuts

- ___ 4. Refer to Figure 3 to **install** the two captive nuts (PN 58G5766).

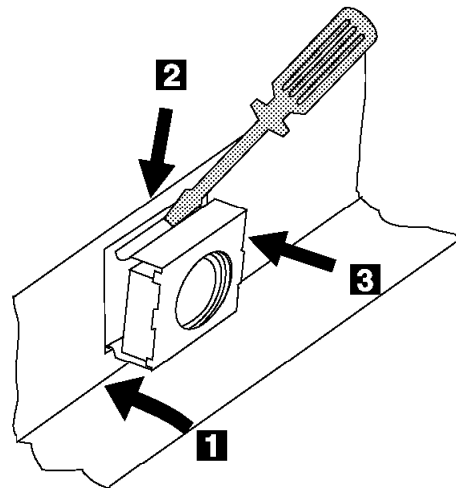


Figure 3. Installing the Captive Nuts

- ___ 5. Refer to Figure 4 on page 7, using one lockwasher (PN 1622319), one starwasher (PN 1622347), and one screw (PN 1673983), **connect** the ground jumper **A** (PN 63F2459) to the new ac outlet distribution box. Then,
- ___ 6. **install** the second ac outlet distribution box close to the first ac outlet distribution box and fasten using two screws **C** (PN 1621230).

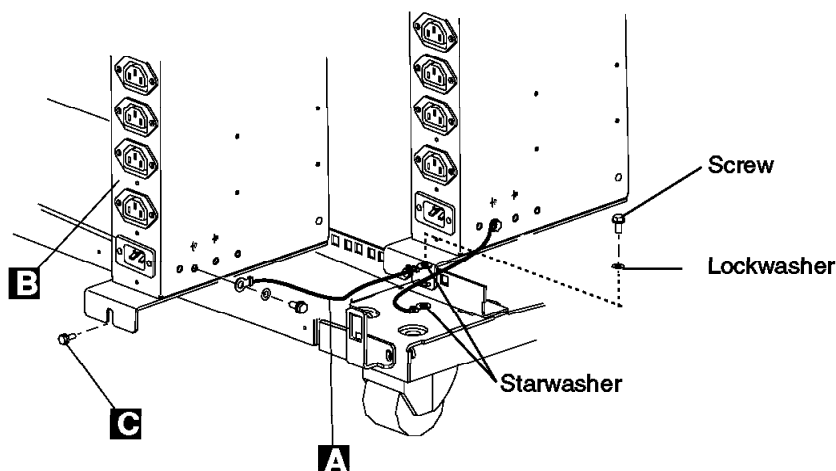


Figure 4. Installing the Second ac Outlet Distribution Box

- 7. Using the same washers and screw used to connect the first ac outlet distribution box, **connect** the other lead of the ground jumper **A** to the frame.

10.2 Measuring the Customer's Primary Power

CEs are not allowed access to the customer's main power receptacle. The customer or a customer-appointed electrician may have to do some of the work involved in the following procedures, and the CE must ensure that all the steps have been completed.

- 1. Switch or ask the customer to switch the controller expansion branch circuit breaker to the **ON** position. Perform the following voltage measurements. *(It is recommended to use high-voltage probes to make these measurements. All voltage values should be less than 1.0 Vac.)*
 - a. Measure the voltage between the ground pin of the customer's receptacle and the building ground.
 - b. Measure the voltage between the exterior shell of the customer's receptacle and the building ground.
 - c. (World Trade only) Measure the voltage between the neutral of the customer's receptacle (if present) and the building ground.
- For any of the previous measurement, if the voltage is greater than 1.0 Vac, notify the customer and do not proceed until the problem is corrected.**
- 2. Measure the customer's phase-to-neutral or phase-to-phase voltage. Continue only if the measured AC input voltage is within 180V to 260V.
 - 3. Switch or ask the customer to switch the branch circuit breaker that feeds the controller expansion **to the OFF position**.



10.3 installing the Power Cord.

- 1. Plug the power cord **A** (country dependant) into location **IN** of the ac outlet distribution box. Then route and connect the other lead of the power cord to the customer's power socket.

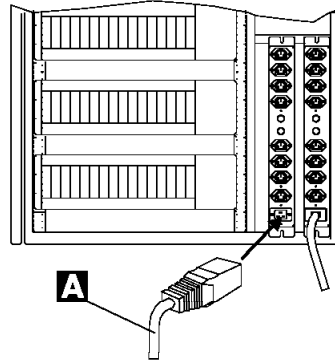


Figure 5. Power Cord Installation

- 2. Switch or ask the customer to switch ON the circuit breaker to be used for the ac outlet distribution box.
- 3. If you do not have anything to intall, close the Controller Expansion rear door.

11.0 Test Procedures

No test required.

12.0 Field Updating

None.

After Installation (steps 13-15)

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 ***

