

---

**L MULTIPLEX TERMINALS**  
**MASTERGROUP CONNECTORS**  
**J68882AW (MMX-1 AND MMX-2)**  
**PATCHING PROCEDURE**

---

Patching procedures whereby regular equipment (mastergroup connectors) may be removed from or restored to service are described.

This section is reissued to more clearly identify certain test jacks. Change arrows are used to indicate significant changes.

Transmission requirements must be met for the equipment involved before proceeding.

---

**APPARATUS**

*Receiving Test Equipment* (Section 356-010-500) capable of measuring the power of the signal to be monitored

*Patch Cords and Plugs* as required

---

**STEP**

**PROCEDURE**

---

*Caution: Some patches can affect transmission levels; therefore, patching should be kept to a minimum. Before attempting any patches, read and understand the entire procedure.*

*Note:* To prevent service interruptions due to patching errors, the craftsman must have a thorough understanding of the following:

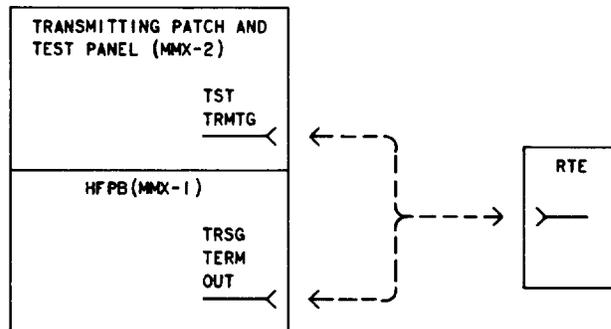
- (a) Transmission circuits involved
- (b) Local equipment and jack designations
- (c) Local policy regarding minimum monitoring requirements.

**Monitoring**

- 1 Determine the monitoring procedure to be used (established by local policy).

*Caution: Always monitor at a point in the circuit path beyond the final patch point.*

STEP	PROCEDURE
2	Prepare the receiving test equipment (RTE) to measure the signal (determined in Step 1) at the correct power.  <i>Note:</i> Section 359-200-520 provides level diagrams and frequency charts.
3	Connect the RTE to the monitoring point determined in Step 1 (Fig. 1).



**Fig. 1—Suggested Monitoring Points**

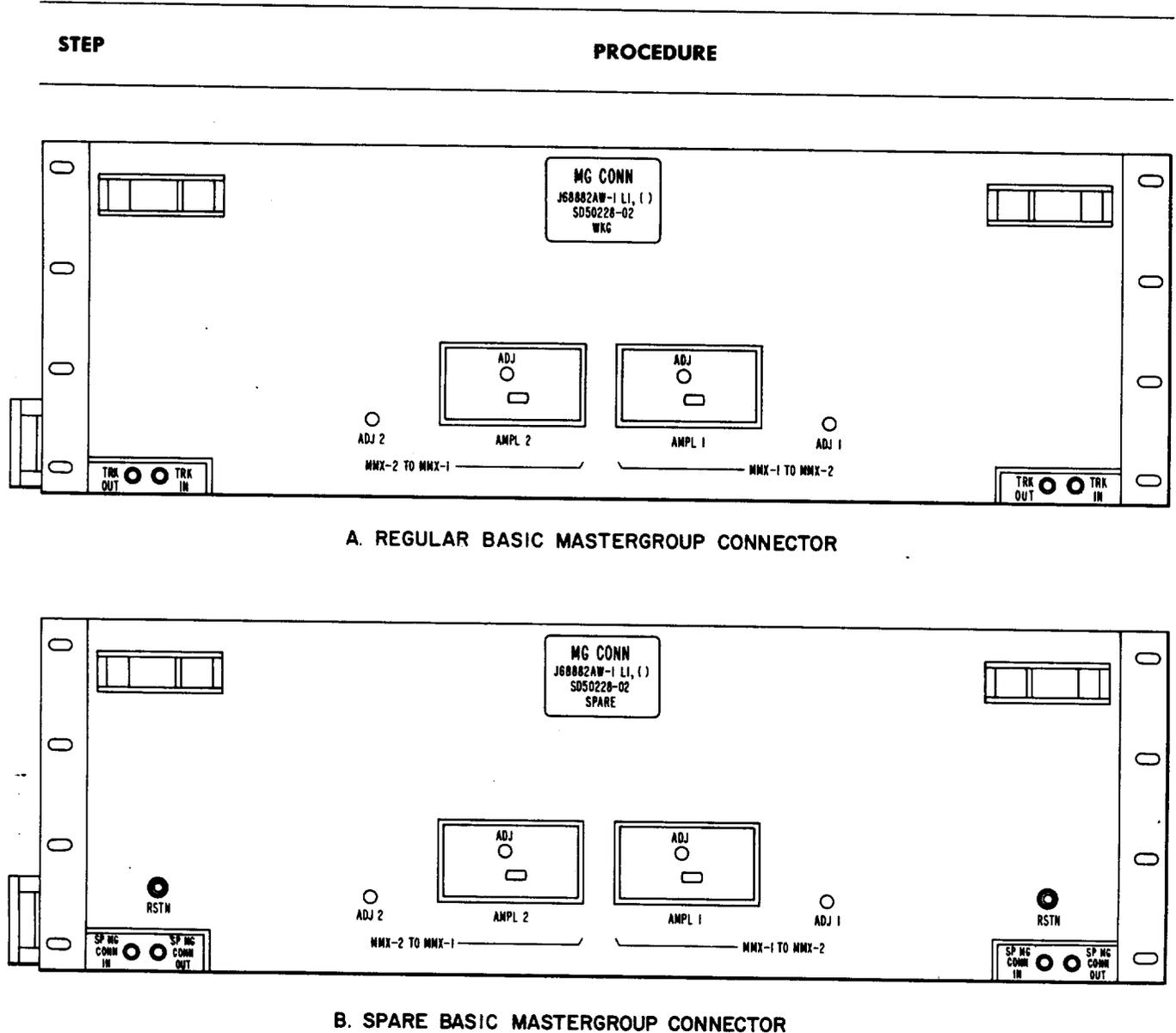
#### **Patching**

- 4 To remove regular equipment from service, proceed to Step 5. To restore regular equipment to service, proceed to Step 16.

#### **Removing Regular Equipment from Service**

- 5 Determine which regular connector (MMX-1 to MMX-2 or MMX-2 to MMX-1) is to be patched.
- 6 At the connector location verify,
- That the spare connector is equipped identically to the regular connector to be patched.
  - That the RSTN lamp (Fig. 2) on the spare connector is extinguished (indicates that spare connector is idle).
- 7 Locate the jacks on the front panels of the regular and spare connectors to be patched (Fig. 2).
- 8 Using a P2EB cord, connect the SP MG CONN IN jack of the spare connector to the TRK OUT jack of the regular connector [patch (1), Fig. 3].

*Note:* Make connection to the spare connector first.



**Fig. 2—J68882AW Mastergroup Connector (MMX-1 to MMX-2 or MMX-2 to MMX-1)—Front View**

- 9 Using a P2EB cord, connect the SP MG CONN OUT jack of the spare connector to the TRK IN jack of the regular connector [patch (2), Fig. 3].

**Note:** Make connection to the spare connector first.

- 10 Observe the RTE indication.

**Requirement 1:** A 3-dB increase in power

**Requirement 2:** SP READY lamps at restoration patch bays are extinguished.

**Requirement 3:** RSTN lamp of spare connector is lighted.

## STEP

## PROCEDURE

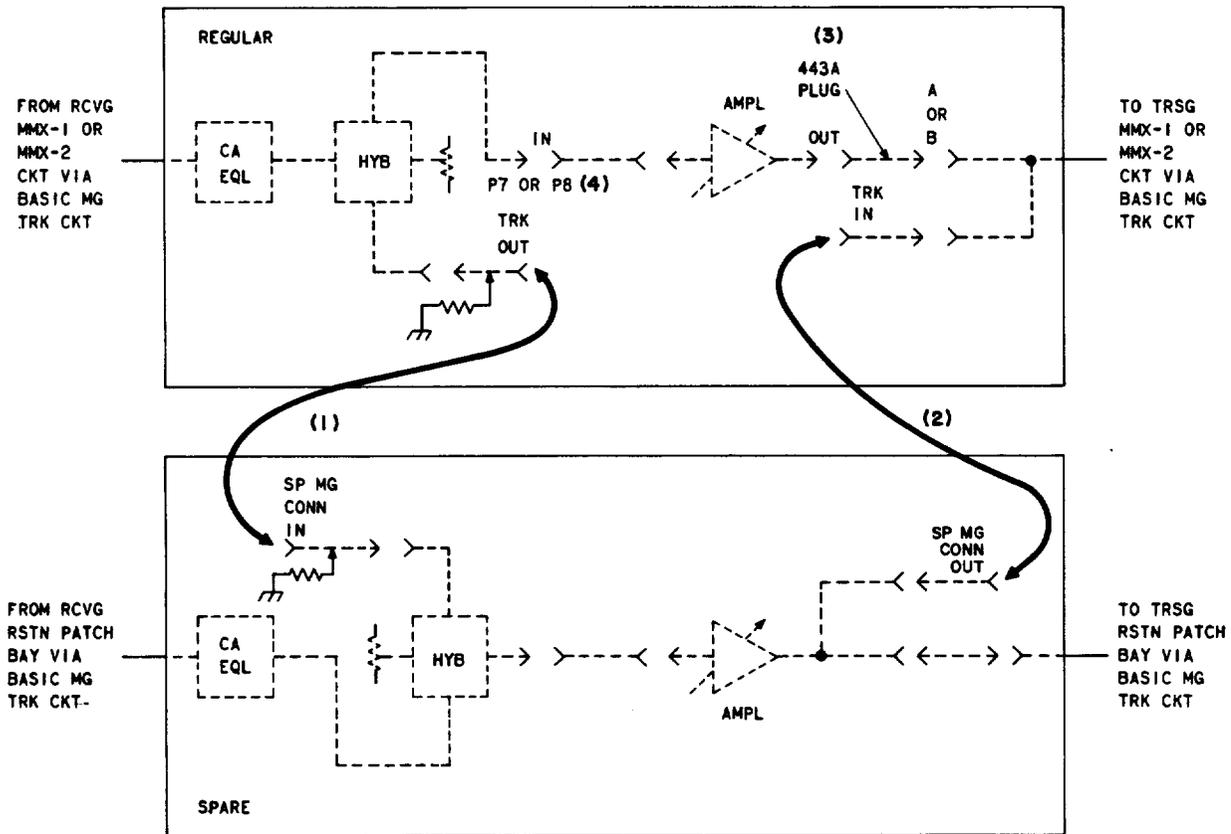


Fig. 3—Removing Regular Equipment From Service—Patching Procedure

- 11 On the regular connector to be patched, release the thumb latches and open the drawer assembly.
- 12 Inside the drawer assembly, (See Fig. 4 and 5.)
  - (a) Remove the 443A plug from the OUT and A (or B) jacks [patch (3), Fig. 3].
  - (b) Remove the P7 or P8 plug (IN) from PAD [patch (4), Fig. 3]; terminate it into 75 ohms.
- 13 Observe the RTE indication.

STEP

PROCEDURE

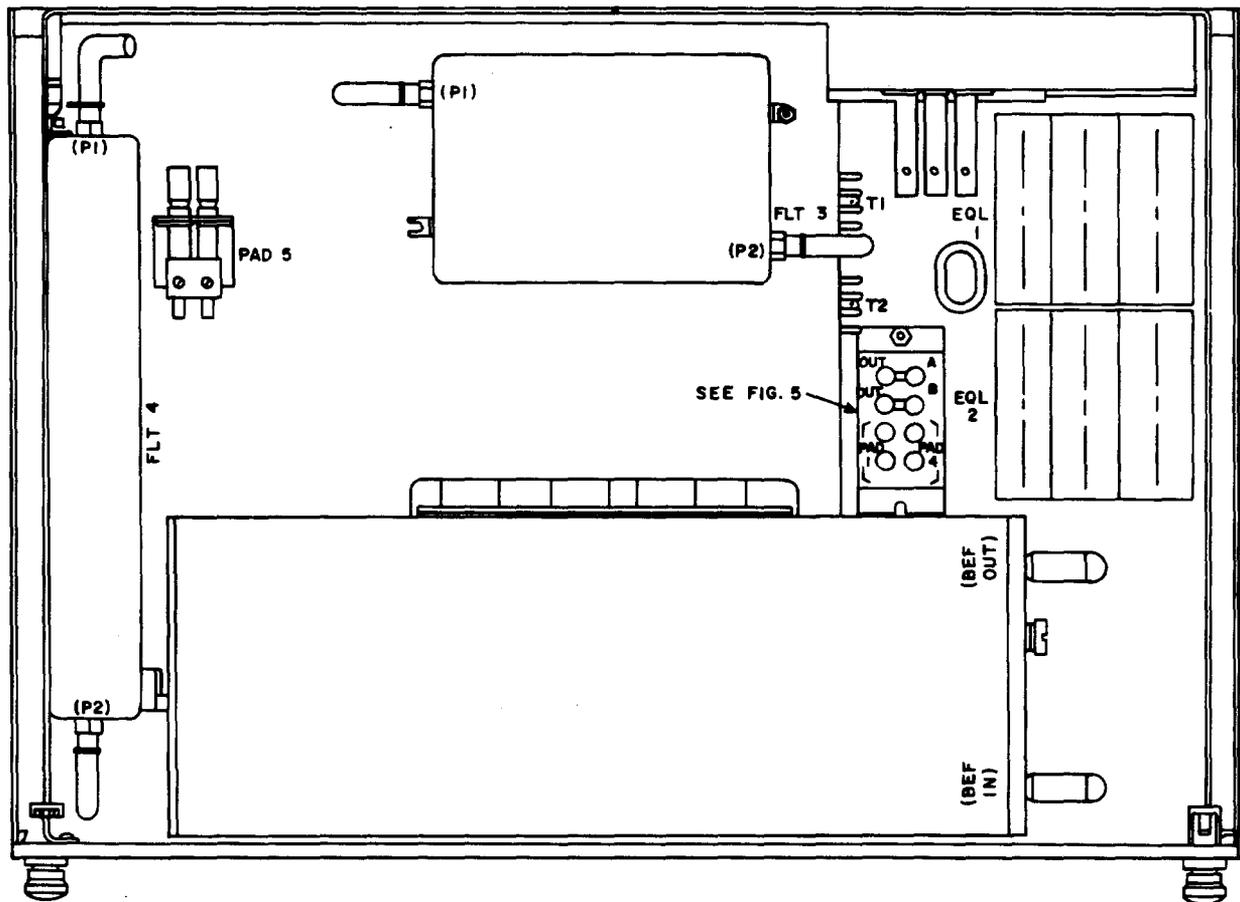


Fig. 4—Top View of Opened Drawer Assembly

**Requirement:** Normal power indication for the monitoring point

- 14 Perform maintenance or tests required on the regular connector; otherwise, restore the drawer assembly to its closed position.
- 15 Disconnect the RTE; identify all patches.

**Restoring Regular Equipment to Service**

- 16 Locate the jacks on the front panels of the regular and spare connectors to be patched (Fig. 2).

STEP

PROCEDURE

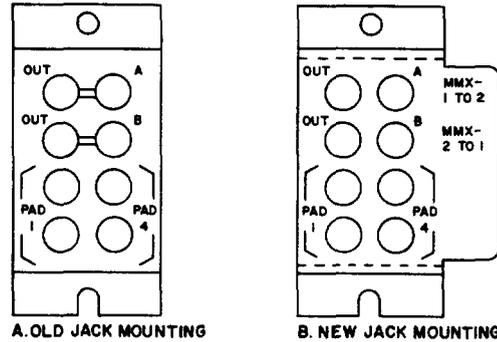


Fig. 5—View of Jack Mountings Showing Jack Designations

- 17 On the regular connector,
- Release the thumb latches; open the drawer assembly. (See Fig. 4 & 5.)
  - Remove the P7 or P8 plug (IN) from the 75-ohm termination; insert it into PAD 1 [patch (1), Fig. 6].
  - Insert a 443A plug into the OUT and A (or B) jacks [patch (2), Fig. 6].
- 18 Observe the RTE indication.
- Requirement:** A 3-dB increase in power
- 19 Remove the P2EB cord from the TRK IN jack of the regular connector and the SP MG CONN OUT jack of the spare connector [patch (3), Fig. 6].
- Note:** Remove connection from regular connector first.
- 20 Remove the P2EB cord from the TRK OUT jack of the regular connector and the SP MG CONN IN jack of the spare connector [patch (4), Fig. 6].
- Note:** Remove connection from regular connector first.
- 21 Observe the RTE indication.
- Requirement 1:** Normal power indication for the monitoring point
- Requirement 2:** SP READY lamps at restoration patch bays are lighted.
- Requirement 3:** RSTN lamp of spare connector is extinguished.

STEP

PROCEDURE

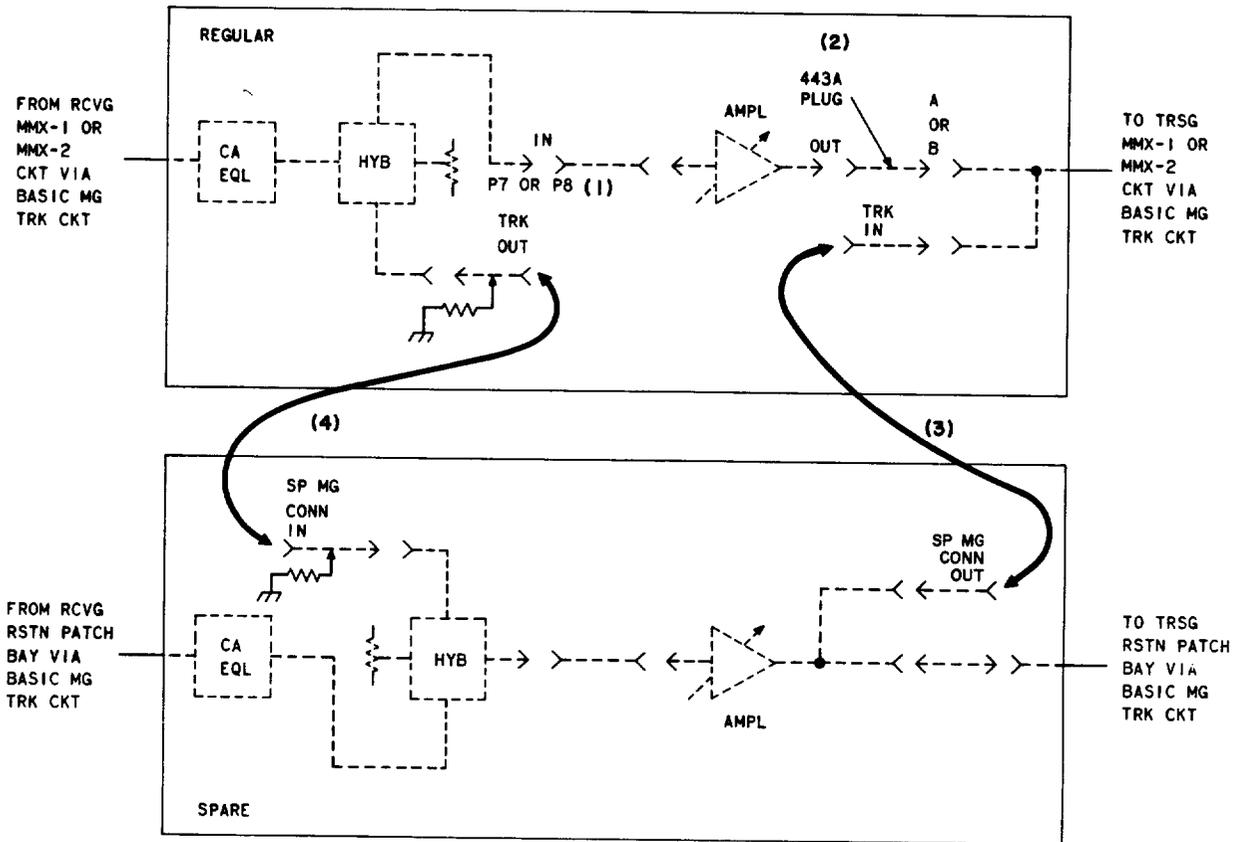


Fig. 6 → Restoring Regular Equipment to Service—Patching Procedure ←

22

Restore the regular connector drawer assembly to its closed position; disconnect the RTE.