TERMINAL CIRCUITS MASTERGROUP TRUNKS PATCHING PROCEDURE

This section describes patching procedures whereby regular equipment (mastergroup trunks) is removed from or restored to service. Because of the numerous configurations applicable to the equipment involved, only an MMX-2 transmitting trunk and an MMX-2 receiving trunk are depicted by these procedures. Each office must determine the mastergroup trunk configurations for its particular office and establish applicable patching procedures.

To prevent service interruptions while patching mastergroup equipment, effective monitoring procedures should be used. Three types of signals are available for monitoring purposes: test tone, conversation, and pilot. The most effective signal is a 1-kHz tone on a voice channel. However, local policy establishes monitoring and verification procedures to keep service interruptions to a minimum.

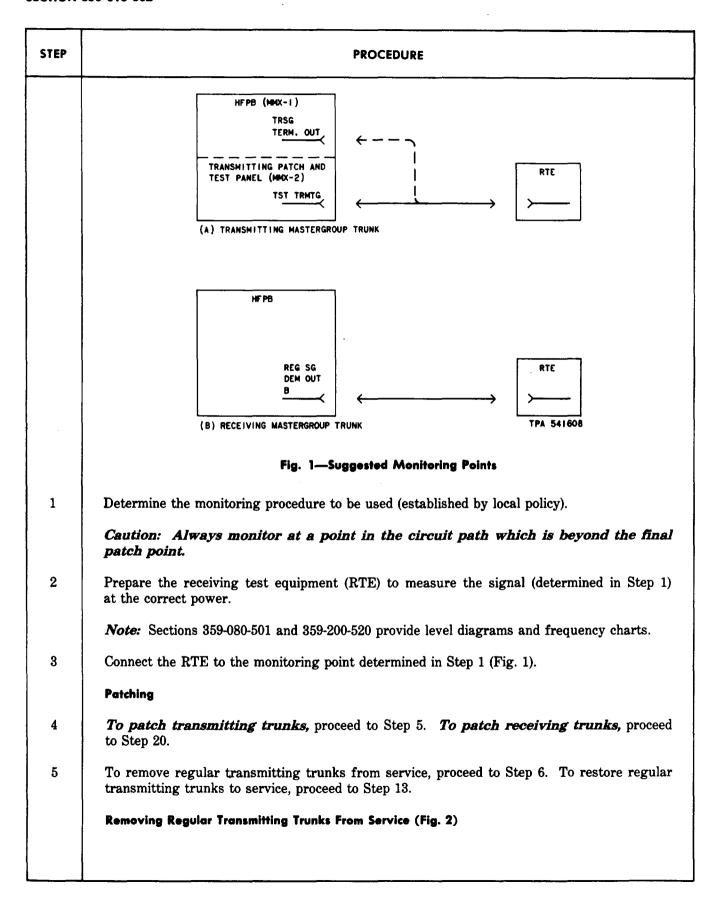
Transmission requirements must be met for the equipment involved before proceeding.

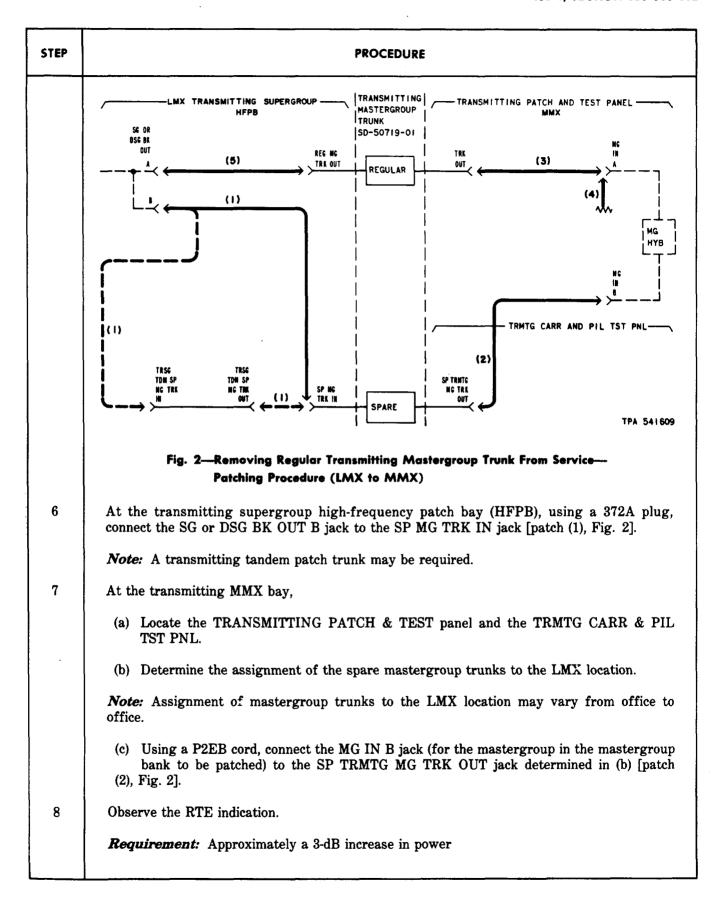
APPARATUS

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

Patch Cords and Plugs as required

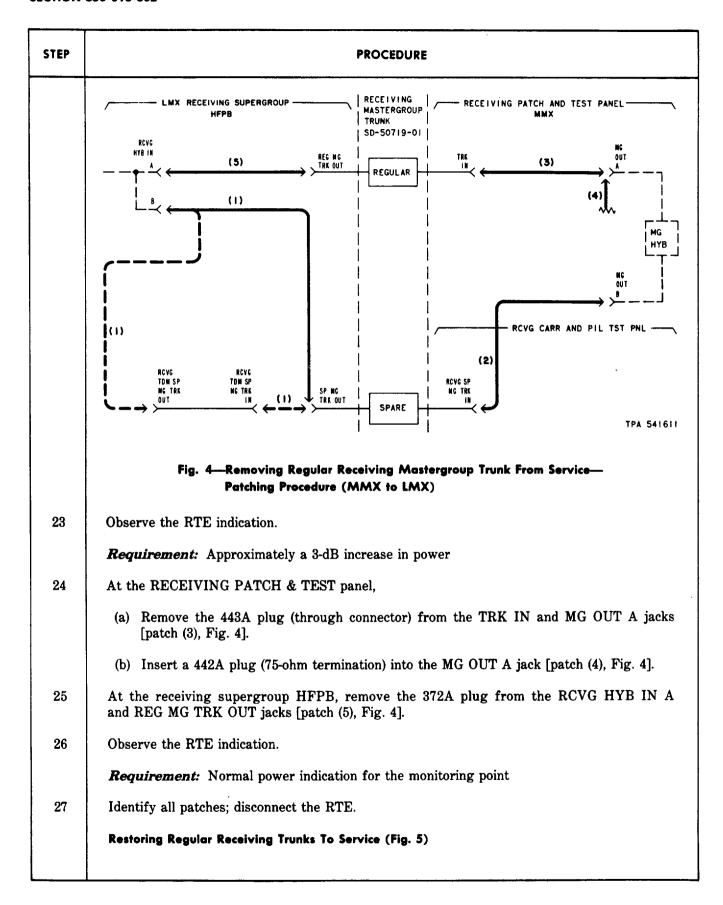
STEP	PROCEDURE
	Caution: Some patches may affect transmission levels; therefore, patching should be kept to a minimum. Before attempting any patches, read and understand the entire procedure.
	Note: To prevent service interruptions due to patching errors, the craftsman must:
	(a) Have a thorough understanding of the transmission circuits involved
	(b) Be familiar with local equipment and jack designations
	(c) Be familiar with local policy regarding minimum monitoring requirements.
	Monitoring (Fig. 1)

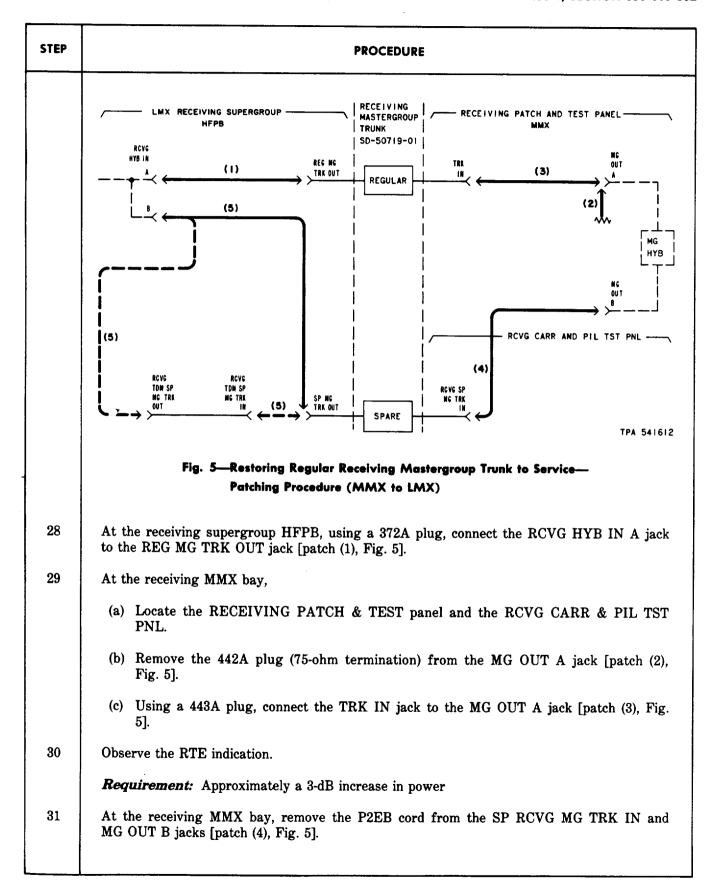




STEP	PROCEDURE
9	At the TRANSMITTING PATCH & TEST panel,
	(a) Remove the 443A plug (through connector) from the MG IN A and TRK OUT jacks for the mastergroup being patched [patch (3), Fig. 2].
	(b) Insert a 442A plug (75-ohm termination) into the MG IN A jack [patch (4), Fig. 2].
10	At the transmitting supergroup HFPB, remove the 372A plug from the SG or DSG BK OUT A and REG MG TRK IN jacks [patch (5), Fig. 2].
11	Observe the RTE indication.
	Requirement: Normal power indication for the monitoring point
12	Identify all patches; disconnect the RTE.
	Restoring Regular Transmitting Trunks To Service (Fig. 3)
	SG OR DOS BIT OUT A (1) REG IN TRINK SD-50719-01 REGULAR TRIN REGULAR TRIN (3) NG IN MG HYB HYB HI IN TRINTG CARR AND PIL TST PNL TRINT IN TRINT IN SPARE TRIN SPARE TRIN TRIN
13	Patching Procedure (LMX to MMX) At the transmitting supergroup HFPB, using a 372A plug, connect the SG or DSG BK OUT A jack to the REG MG TRK IN jack [patch (1), Fig. 3].

STEP	PROCEDURE
14	At the transmitting MMX bay,
	(a) Locate the TRANSMITTING PATCH & TEST panel and the TRMTG CARR & PIL TST PNL.
	(b) Remove the 442A plug (75-ohm termination) from the MG IN A jack of the mastergroup being restored to service [patch (2), Fig. 3].
	(c) Using a 443A plug (through connector) connect the TRK OUT jack to the MG IN A jack [patch (3), Fig. 3].
15	Observe the RTE indication.
	Requirement: Approximately a 3-dB increase in power
16	At the TRANSMITTING MMX bay, remove the P2EB cord which connects the MG IN B and SP TRMTG MG TRK OUT jacks [patch (4), Fig. 3].
	Note: A transmitting tandem patch trunk may have been used.
17	At the transmitting supergroup HFPB, remove the 372A plug from the SG or DSG BK OUT B and SP MG TRK IN jacks [patch (5), Fig. 3].
18	Observe the RTE indication.
	Requirement: Normal power indication for the monitoring point
19	Disconnect the RTE.
20	To remove regular receiving trunks from service, proceed to Step 21. To restore regular receiving trunks to service, proceed to Step 28.
	Removing Regular Receiving Trunks From Service (Fig. 4)
21	At the receiving supergroup HFPB, using a 372A plug, connect the RCVG HYB IN B jack to the SP MG TRK OUT jack [patch (1), Fig. 4].
	Note: A receiving tandem patch trunk may be required.
22	At the receiving MMX bay,
	(a) Locate the TRANSMITTING PATCH & TEST panel and the RCVG CARR & PIL TST PNL.
	(b) Determine the assignment of the spare mastergroup trunks to the LMX location.
	Note: Assignment of mastergroup trunks to the LMX location may vary from office to office.
	(c) Using a P2EB cord, connect the SP RCVG MG TRK IN jack to the MG OUT B jack [patch (2), Fig. 4].





SECTION 356-018-302

STEP	PROCEDURE
32	At the receiving supergroup HFPB, remove the 372A plug from the RCVG HYB IN B and the SP MG TRK OUT jacks [patch (5), Fig. 5].
	Note: A receiving tandem patch trunk may have been used.
33	Observe the RTE indication.
	Requirement: Normal power indication for the monitoring point
34	Disconnect the RTE.