

**OPERATION AND MAINTENANCE
TERMINAL STATION
DR 6/11-135EC
TWT AMPLIFIER
REPAIR VERIFICATION**

	CONTENTS	PAGE
1. GENERAL		1
1.1 UPDATE INFORMATION		1
 Flowcharts		
1. MR 1—Station Repair Verification		2
2. MSR 1—Digital Transmitter Performance Verification		4
3. MSR 2—Radio Transmitter Performance Verification		6
4. MSR 3—Radio Receiver Performance Verification		7
5. MSR 4—Digital Receiver Performance Verification		8
6. MSR 5—Condition Station for Normal Operation		9

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1. GENERAL

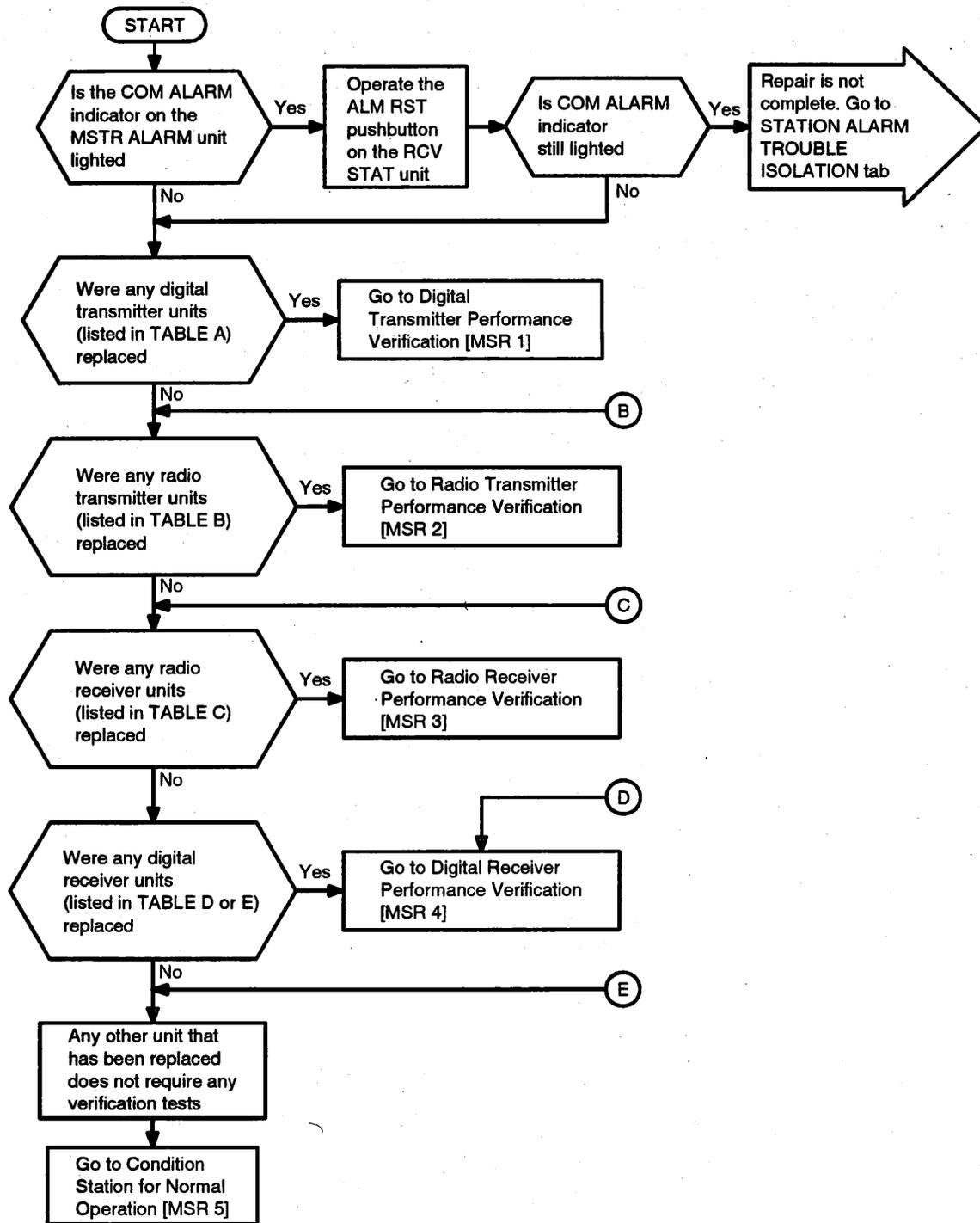
Repair verification is always the last procedure performed by the technician before leaving the station. This practice is used to verify that the equipment repair is complete, no alarms are present, and the system requirements are met.

The following logic diagrams reference tests which verify that the repair is complete. When the requirements for all of the referenced tests are met, the equipment is repaired and ready for service. The tests can be found under the TESTS AND ADJUSTMENTS tab.

If referenced test requirements are not met, corrective action must be taken to clear any equipment alarms. If there are no equipment alarm indications, report the nature of the trouble to the technical support group for further instructions.

1.1 UPDATE INFORMATION

This practice is being reissued to reflect the recent revision of AT&T 421-102-072, *Radio Receiver Procedures*. The practice is used in binder 421-102-090.



MR 1— Station Repair Verification (Sheet 1 of 2)

TABLE A
TERMINAL TRANSMITTER CIRCUITS AFFECTING SYSTEM REQUIREMENTS
B3ZS DCODR FRAME GEN LINE SELR EC CODER CRC CODER D/A CONVR TRMT FLT 64QAM MOD

TABLE B
RADIO TRANSMITTER CIRCUITS AFFECTING SYSTEM REQUIREMENTS
IF PREDISTORTER TRANSMITTER UP CONV & MWV GEN TWT AMPLIFIER TWT POWER SUPPLY ALC NETWORK

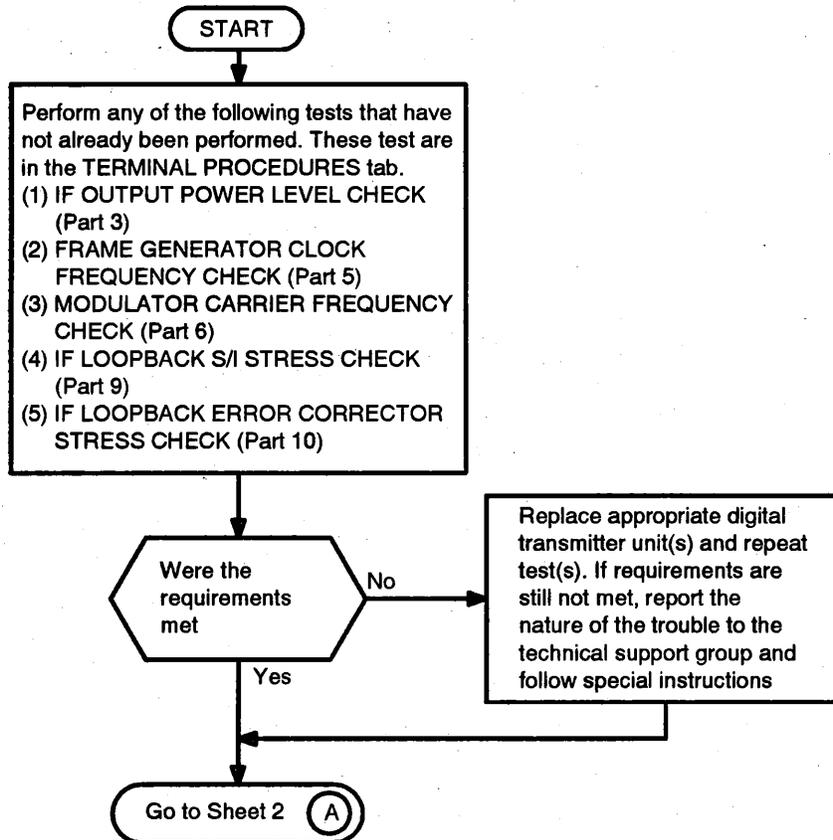
TABLE C
RADIO RECEIVER CIRCUITS AFFECTING SYSTEM REQUIREMENTS
RF PREAMPLIFIER RECEIVER DOWN CONV & MWV GEN IF COMBINER LINEAR DELAY EQUALIZER IF FILTER AND BASIC EQUALIZER IF AGC AMPL ADAPTIVE SLOPE EQL

TABLE D
TERMINAL RECEIVER CIRCUITS EQUIPPED WITH ANALOG TE AFFECTING SYSTEM REQUIREMENTS
64QAM DEMOD 64QAM DECSN TRNSV FLT CRLTR RCV FLT EC RECDR ERROR LOCTR ERROR CORR TERM FRMR LINE SW LINE ALNMT FRAME RMVR VMR & CODER

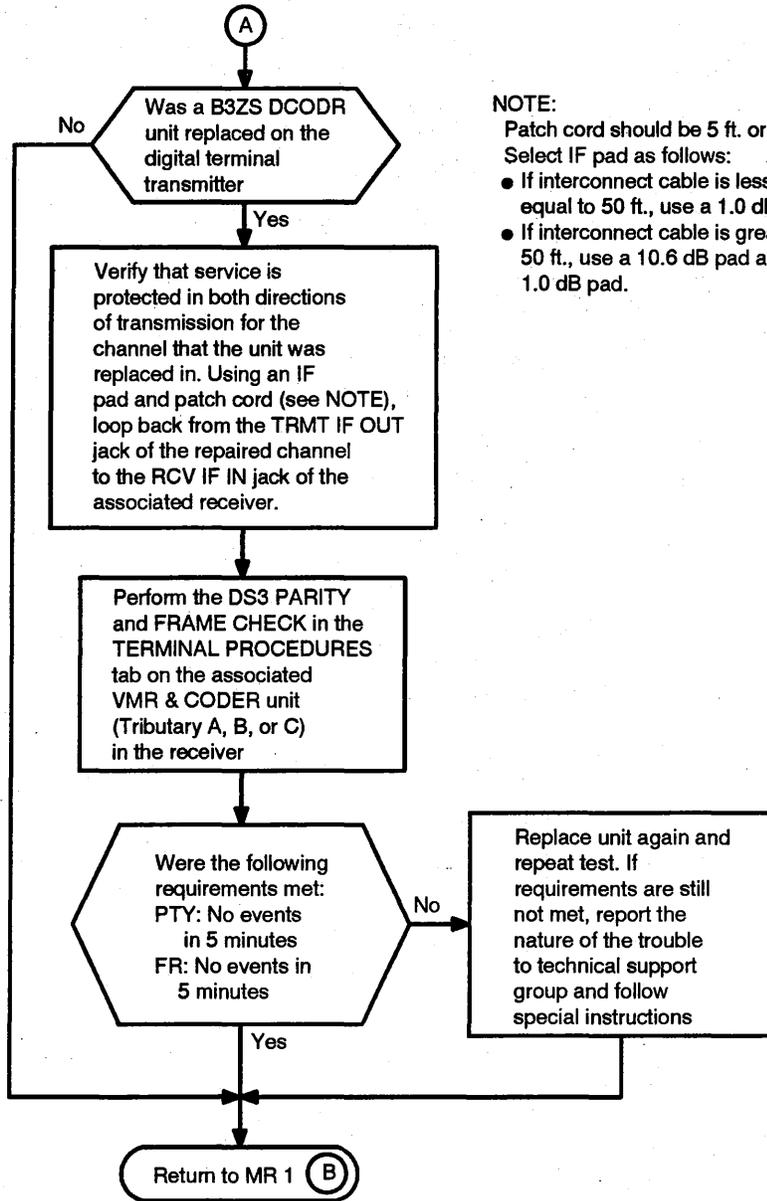
TABLE E
TERMINAL RECEIVER CIRCUITS EQUIPPED WITH DIGITAL TE AFFECTING SYSTEM REQUIREMENTS
64QAM DEMOD TMG A/D TE RCV FLT EC RECDR ERROR LOCTR ERROR CORR TERM FRMR LINE SW LINE ALNMT FRAME RMVR VMR & CODER

MR 1—Station Repair Verification (Sheet 2 of 2)

PREREQUISITE: There are no terminal transmitter alarms.



MSR 1—Digital Transmitter Performance Verification (Sheet 1 of 2)

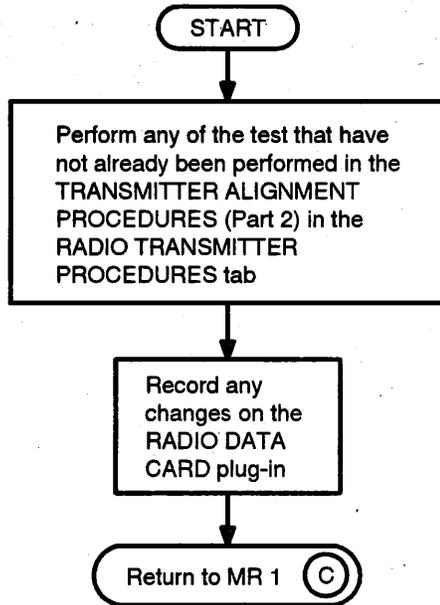


NOTE:
 Patch cord should be 5 ft. or less.
 Select IF pad as follows:

- If interconnect cable is less than or equal to 50 ft., use a 1.0 dB pad.
- If interconnect cable is greater than 50 ft., use a 10.6 dB pad and a 1.0 dB pad.

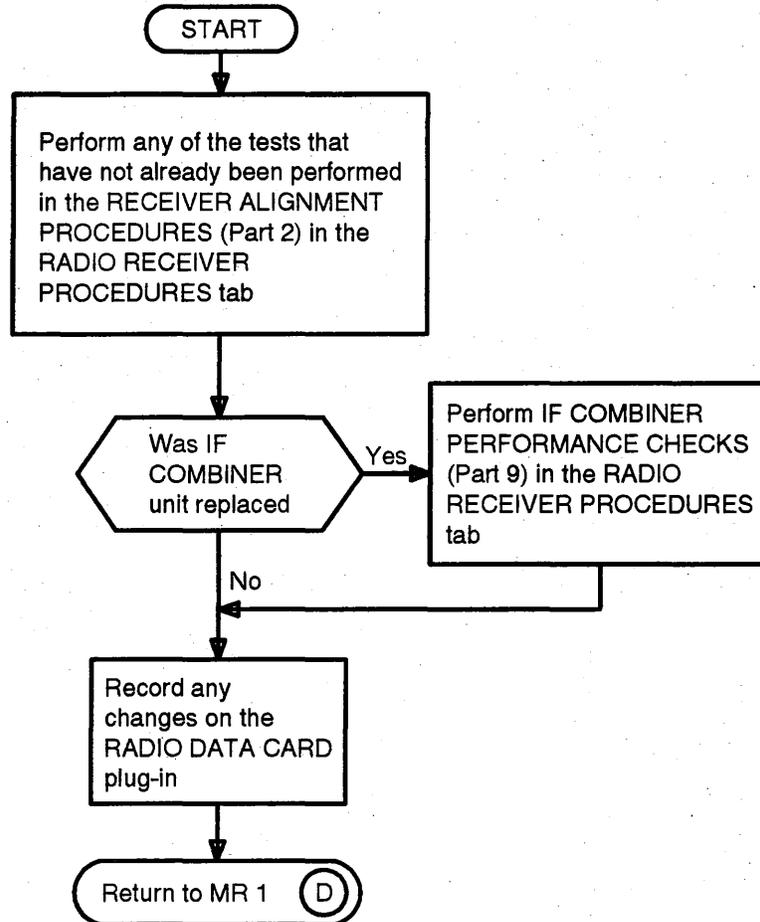
MSR 1—Digital Transmitter Performance Verification (Sheet 2 of 2)

PREREQUISITE: There are no radio transmitter alarms.



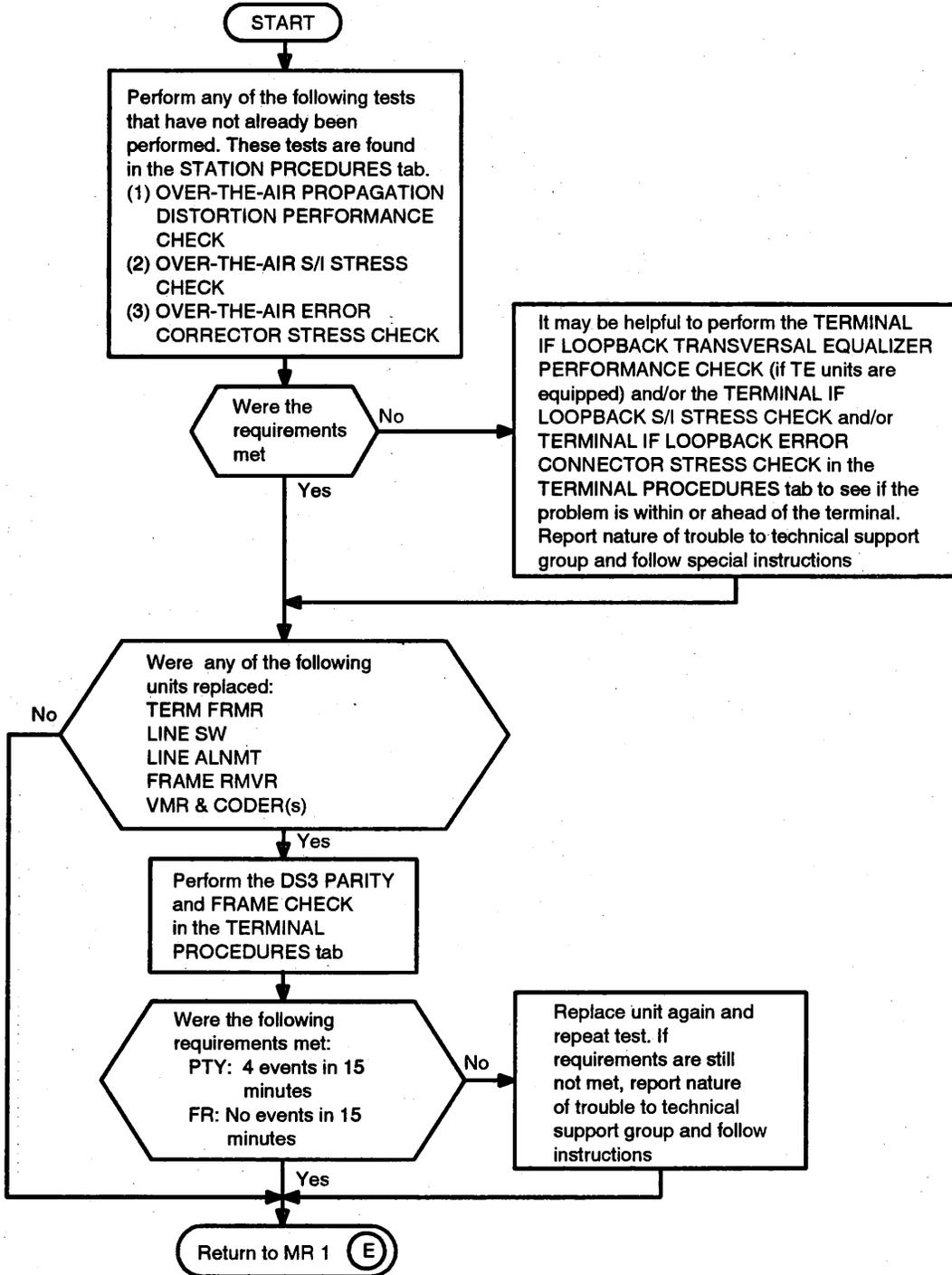
MSR 2—Radio Transmitter Performance Verification

PREREQUISITE: There are no radio receiver alarms.



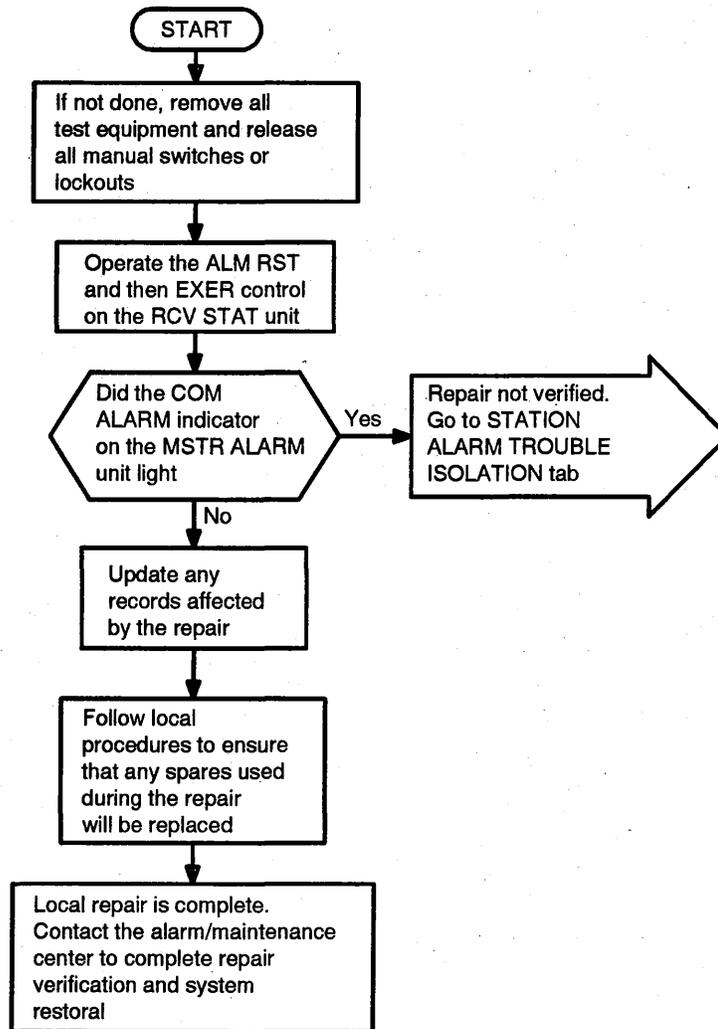
MSR 3—Radio Receiver Performance Verification

PREREQUISITE: There are no terminal receiver alarms.



MSR 4—Digital Receiver Performance Verification

PREREQUISITE: All station alarms are clear.



MSR 5—Condition Station for Normal Operation