

**OPERATION AND MAINTENANCE  
1×N FREQUENCY DIVERSITY  
DR 6/11-135A AND 135EC  
IF AMPLIFIER ALARM**

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## 1. GENERAL

The IF AGC amplifier maintains a relatively constant output level of  $-2$  dBm for an input level in the range of  $-10$  to  $-55$  dBm.

Status indicators LPW IN and MAN are on the faceplate of this unit. The LPW IN alarm is generated when the signal level applied to the amplifier drops approximately 30 dB below the normal input level. The trip point for this indication is set using the LPW IN TRIP control on the faceplate. The primary purpose of the LPW IN status signal is to indicate a permanent high loss condition that would indicate equipment failure and not fading activity. When the input drops to the trip point, the LPW IN status indicator lights immediately. The IF AMP indicator on the ALARM or ALARM AND METER unit does not light until the LPW IN indicator has been lighted for 60 to 100 seconds. This delay is normally adequate to avoid fade-induced LPW IN alarms.

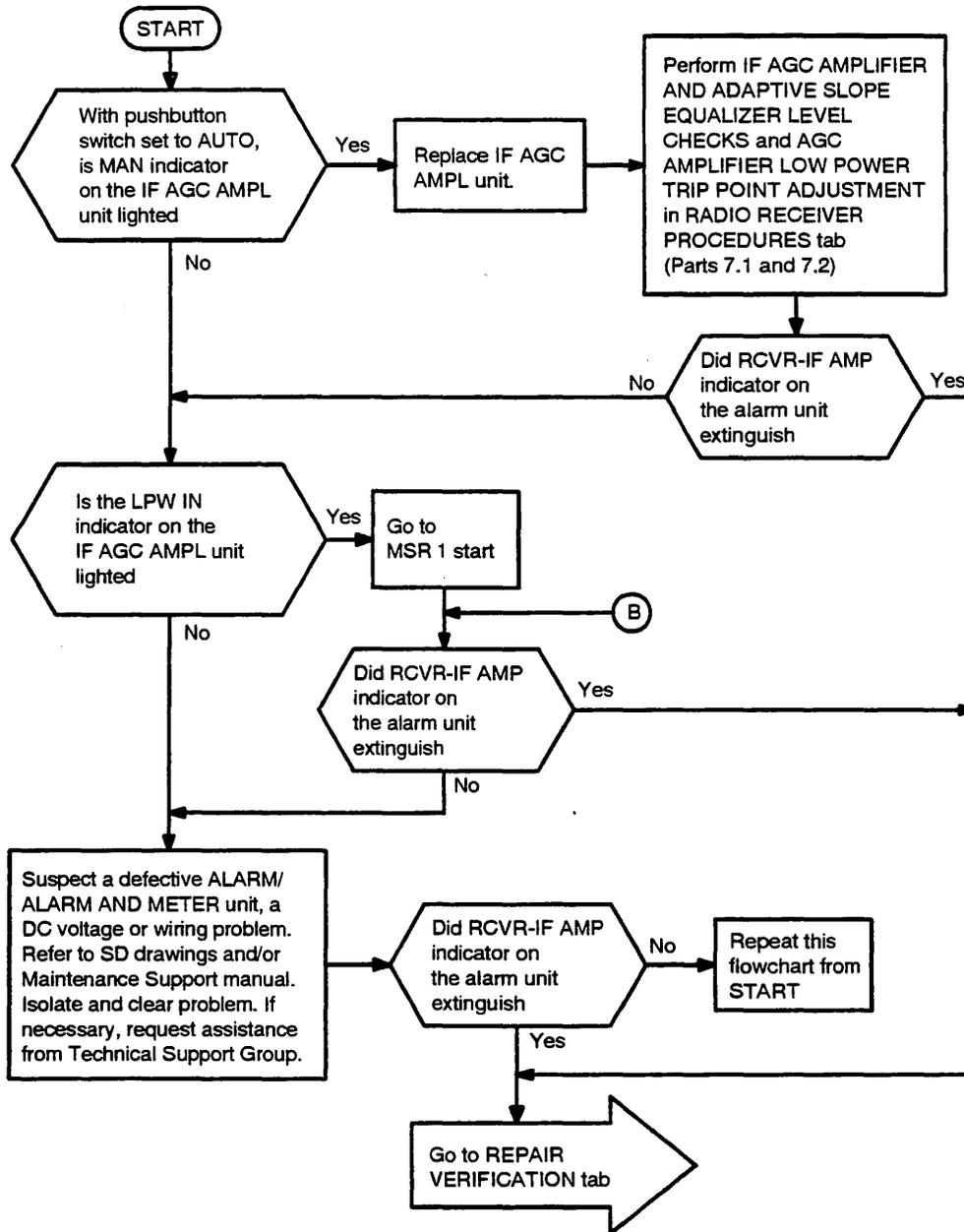
The MAN indicator is activated whenever the AUTO/MAN switch on the IF amplifier is operated to the MAN position. When this switch is operated in the MAN position, the MAN indicator on the IF amplifier faceplate and the IF AMP alarm indicator on the ALARM or ALARM AND METER unit will light immediately. When the IF AMP indicator on the centralized alarm unit is lighted, a remote receiver alarm is also initiated.

### 1.1 UPDATE INFORMATION

This practice is reissued to revise the trouble-clearing procedures. The practice is used in binders 421-102-001, 421-102-080, 421-102-090, 421-102-100, 421-103-001, 421-103-080, 421-103-090, and 421-103-100.

**CAUTION: THIS PROCEDURE IS SERVICE-AFFECTING UNLESS THE PROPER MANUAL SWITCHING OPERATION HAS BEEN PERFORMED.**

PREREQUISITE: RCVR IF AMP indicator lighted on ALARM/ALARM AND METER unit.

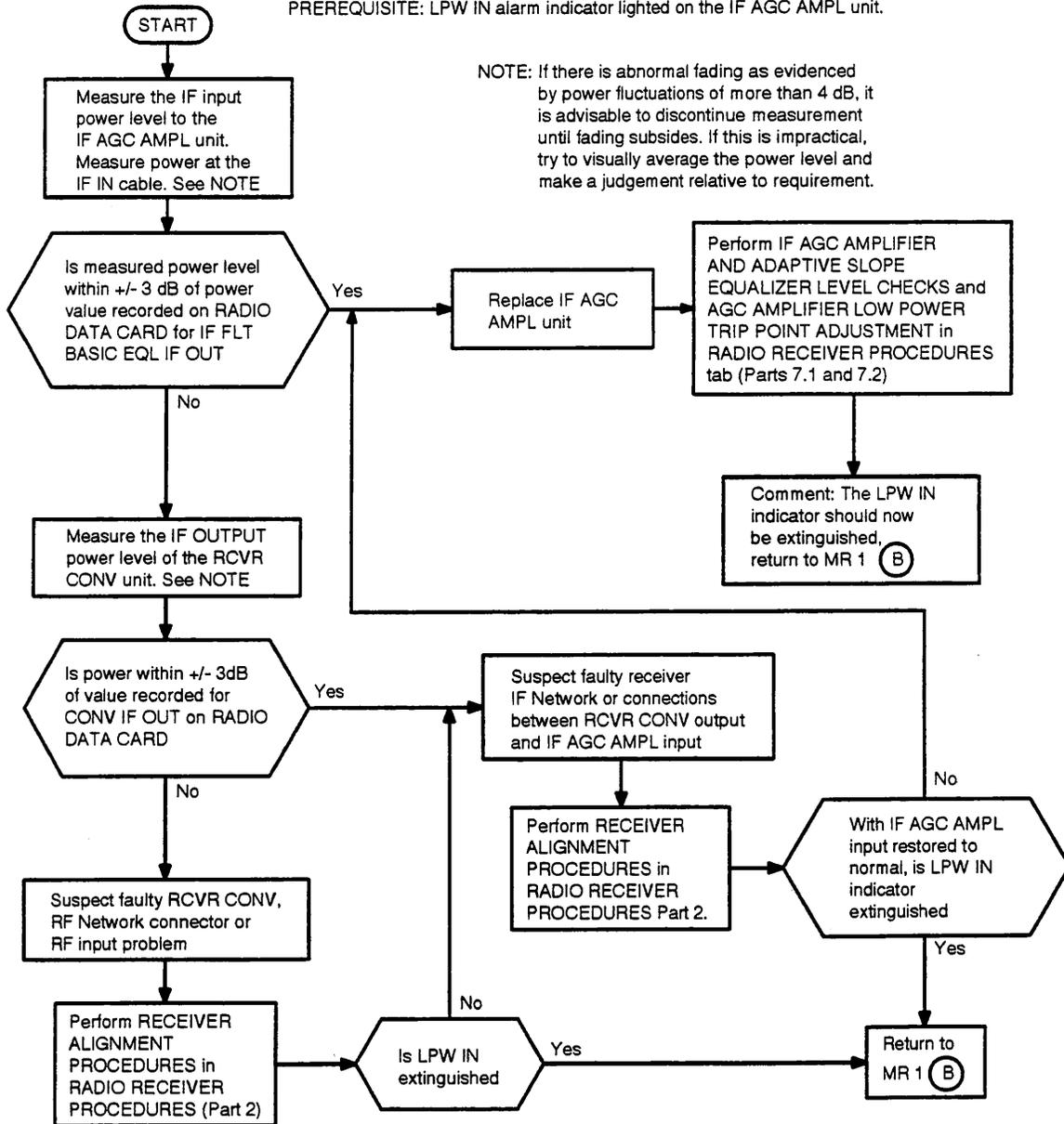


**MR 1—Receiver IF AMP Alarm Diagnosis**

**CAUTION: THIS PROCEDURE IS SERVICE-AFFECTING UNLESS THE PROPER MANUAL SWITCHING OPERATION HAS BEEN PERFORMED.**

PREREQUISITE: LPW IN alarm indicator lighted on the IF AGC AMPL unit.

NOTE: If there is abnormal fading as evidenced by power fluctuations of more than 4 dB, it is advisable to discontinue measurement until fading subsides. If this is impractical, try to visually average the power level and make a judgement relative to requirement.



**MSR 1—Receiver IF AMPL LPW IN Alarm Diagnosis**