

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

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## 1. GENERAL

Logic Diagram MR 1 is used to clear a RCVR COMB indicator on the ALARM/ALARM AND METER unit. The RCVR COMB indicator activates under the following conditions:

- a. Deep fade or signal loss into either the regular, diversity, or both channels for a continuous period of 60 seconds
- b. Operation of the pushbutton switch on the combiner faceplate to the MAN position
- c. IF COMBINER unit fails.
- d. Defective ALARM AND METER unit.
- e. Miniplugs (P1 and P2) not connecting J3 to J4 and J5 to J6 on the ALARM/ALARM AND METER unit with non-space diversity.

Indicators on the combiner faceplate are as follows:

- REG ACTIVE: Status condition. The combiner has selected the signal from the regular channel.
- DIV ACTIVE: Status condition. The combiner has selected the signal from the diversity channel.
- REG LPW IN: Red LED, local alarm on the combiner. The COMB alarm on the alarm and meter network activates after the LPW IN indicator is on continuously for 60 to 100 seconds, caused by a deep fade or signal loss on the regular receiver.
- DIV LPW IN: Same as for REG LPW IN except that it is caused by a deep signal fade or signal loss on the diversity receiver.
- MAN: Caused by operating the pushbutton on the unit to the MAN position. The COMB indicator appears simultaneously when the switch is operated to MAN.

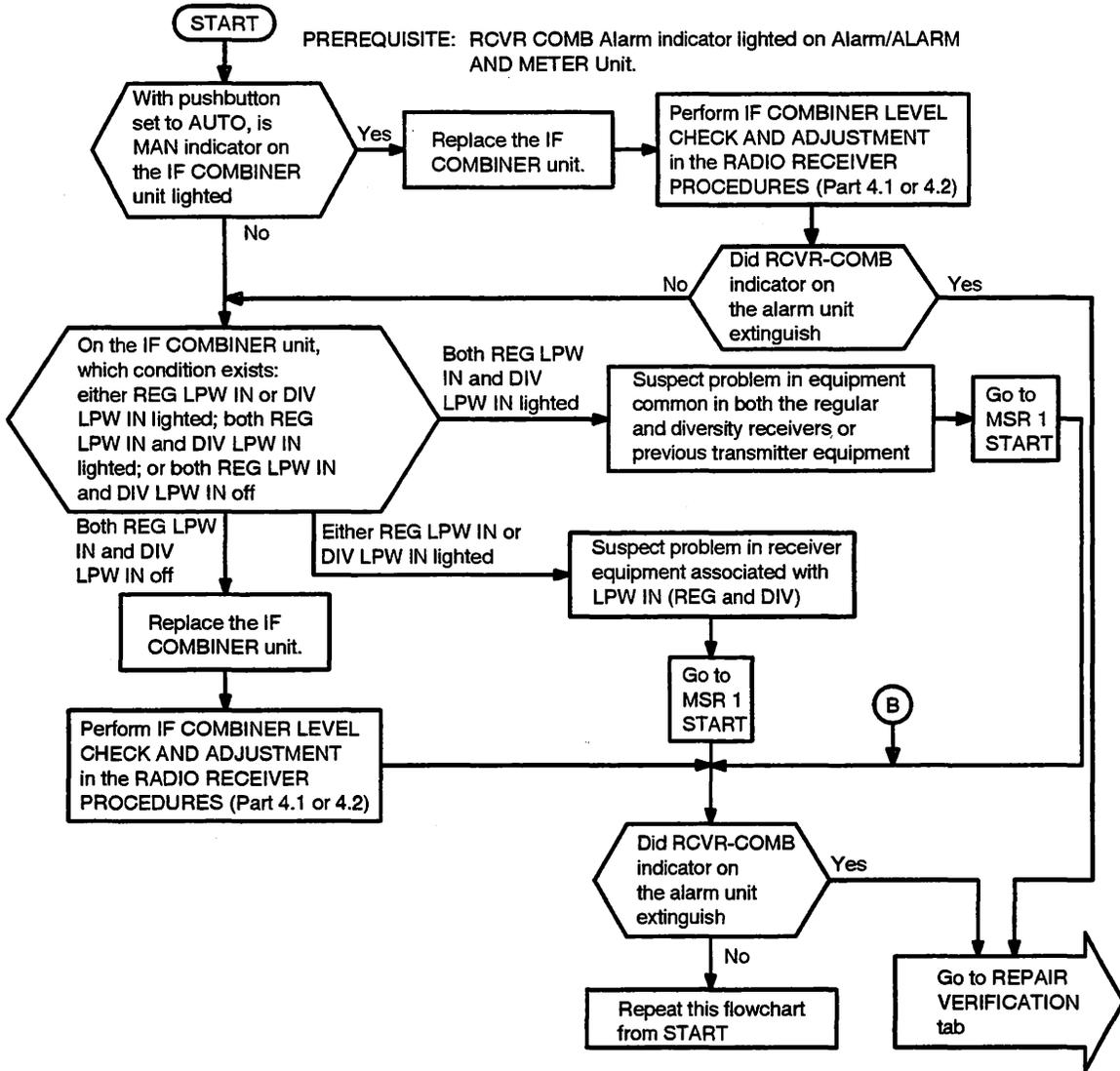
When a unit has failed, refer to the RADIO RCVR tab under the REPLACEMENT PROCEDURES tab to replace the unit with a spare. If tests are necessary, refer to the RADIO RECEIVER PROCEDURES under the TEST AND ADJUSTMENTS tab.

***Warning: To prevent electrostatic discharge (ESD) from damaging a unit, ensure that all precautions are followed.***

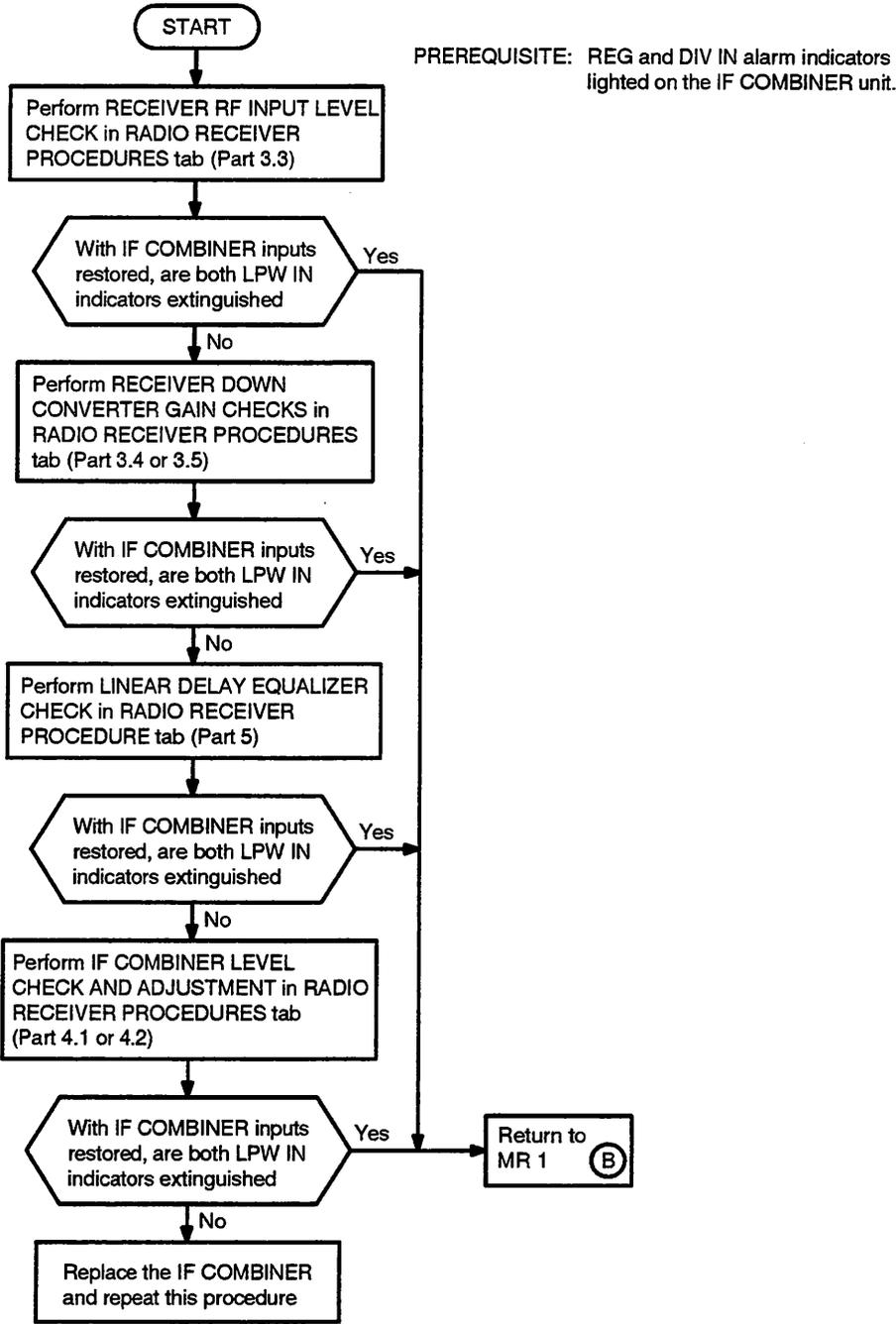
### 1.1 UPDATE INFORMATION

This practice is reissued to update text and 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 SWITCHING OPERATION HAS BEEN PERFORMED.**



**MR 1—Receiver COMB Alarm Diagnosis**



**MSR 1—Combiner REG and DIV LPW IN Alarm Diagnosis,  
REG and DIV LPW IN Alarm Indicators Lighted**