

**ORGANIZATIONAL MAINTENANCE
MANUAL**

RADIO RECEIVER R-390A /URR

**This reprint includes all changes in effect at the
time of publication; changes 2 through 4.**

DEPARTMENTS OF THE ARMY AND THE AIR FORCE

10 FEBRUARY 1961

TECHNICAL MANUAL
No. 11-5820-358-20
TECHNICAL ORDER
No. 31R1-2URR-442

DEPARTMENTS OF THE ARMY
AND THE AIR FORCE

WASHINGTON 25, D. C., 10 February 1961

RADIO RECEIVER R-390/URR

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*This manual supersedes so much of TM 11-856A, 20 January 1956, including C1, 19 March 1956; C2, 17 May 1956; C3, 23 November 1956; C4, 7 June 1957; CS, 23 July 1958, and C6, 13 November 1958, as pertains to organizational maintenance of subject equipment.

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CHAPTER 1

INTRODUCTION

1. Scope

This annual covers the installation and second echelon maintenance of Radio Receiver R490A/URR. The operating instructions for this equipment are contained in TX 11-5820-858-10.

2. Forms and Records

Forward comments concerning this manual to the Commanding Officer, U. S. Army Signal Materiel Support Agency, ATTN: SIGMSPA2d, Fort Monmouth, N. J.

Note. For applicable form and records, see paragraph 2, TM 11-5820-358-10.

CHAPTER 2

INSTALLATION

3. Unpacking

a. *Packaging Data.* When packed for shipment, the components of the receiver are placed in a water-vaporproof container and packed in a wooden box. An exploded view of the wooden box and its contents is shown in figure 1. The dimensions of the box are approximately 24 1/4 inches high, 20 1/2 inches wide, and 14 3/4 inches deep. The packed box weighs approximately .100 pounds, with a volume of 3.9 cubic feet.

b. *Removing Contents.* Select a location where the equipment may be unpacked without exposure to the weather, and which is convenient to the place of installation.

CAUTION: Be careful when uncrating, unpacking, and handling the equipment, because it is easily damaged.

- (1) Place the packing case conveniently near the installation location.
- (2) Cut and fold back the metal straps.
- (3) Remove the nails with a nailpuller.
- (4) Remove the top and one side of the wooden box.
- (5) Remove the desiccant bags, the cardboard tray, and the plywood board.
- (6) Take out the outer cardboard carton that contains the receiver.
- (7) Open the carton and withdraw the inner carton that is enclosed in the moisture-vaporproof barrier.
- (8) Slit open the seams of the moisture vaporproof barrier and open the inner cardboard carton.
- (9) Remove any spacers or padding from the inner cardboard carton.
- (10) Withdraw the receiver from the inner carton and place it on a workbench near its final location.
- (11) Remove the technical manuals and the running spares.

4. Checking Unpacked Equipment

a. Check the contents of the cartons against the master packing slip.

b. Check the receiver front panel for damage to the knobs, the glass meter windows, and the frequency-indicator dial.

c. Operate the control knobs; examine them for looseness.

d. Turn the MEGACYCLE CHANGE and the KILOCYCLE CHANGE controls throughout their range. Rough operation or binding indicates a damaged tuning system.

e. Remove the top and bottom dust covers by removing the 16 screws (TM 11-5820-358-10) and lockwashers that secure the covers to the main frame.

f. Inspect the subchassis on the upper and lower decks of the receiver for loose connectors, loose tube shields, and broken tubes as follows:

- (1) See that all connectors are seated firmly.
- (2) If the receiver is to be used in a fixed installation, remove the shields from all tubes (fig. 2 and 3) except V201 through V206, V505, and V701.
- (3) Unless extremely dusty conditions are expected, do not replace the dust covers.
- (4) Do not replace the dust covers if the receiver is to be installed in Cabinet CY-979/URR or Cabinet CY-917/ URR.

g. Remove the fuse from the fuseholder on the rear panel (TM 11-5820-358-10) marked AC 3 AMP. Check the position of the OVENS switch on the rear panel. Refer to the chart below for the proper fuse rating.

CAUTION: To avoid serious damage to the