

DEPARTMENT OF THE ARMY TECHNICAL MANUAL

TM 11-5830-200-20

DEPARTMENT OF THE AIR FORCE TECHNICAL ORDER

TO 31S3-3MC364-24

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**REPRODUCING  
EQUIPMENT  
MC-364-D  
AND  
PUBLIC ADDRESS  
SET AN/UIH-2**

ORGANIZATIONAL MAINTENANCE  
SECOND ECHELON

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| <p>This reprint includes all changes in effect at the time of publication; changes 4 and 6.</p> |
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*DEPARTMENTS OF THE ARMY AND THE AIR FORCE*  
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TECHNICAL MANUAL  
No. 11-5830-200-20  
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DEPARTMENTS OF THE ARMY  
AND THE AIR FORCE

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## REPRODUCING EQUIPMENT MC-364-D AND PUBLIC ADDRESS SET AN/UIH-2 ORGANIZATIONAL MAINTENANCE, SECOND ECHELON

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\*This manual supersedes so much of TM 11-436, 9 September 1947, including C 2, 9 March 1954, and C3, 18 August 1958, as pertains to organizational maintenance.

# CHAPTER 1

## INTRODUCTION

### 1. Scope

a. This manual covers installation and organizational maintenance of Reproducing Equipment MC-364-D and Public Address Set AN/UIH-2. The operating instructions for this equipment are contained in TM 11-5830-200-10, Reproducing Equipment MC-364-D and Public Address Set AN/UIH-2, Operator's Manual.

b. Forward comments concerning this manual to the Commanding Officer, United States Army Signal Publications Agency, Fort Monmouth, N.J.

Note. For applicable forms and records, see paragraph 2, TM 11-5830-200-10.

### 2. Internal Differences in Models

This paragraph covers only items that organizational maintenance personnel service.

a. Refer to the *differences in models* paragraph in TM 11-5830-200-10 for information on exterior differences.

b. Differences among the reproducers are listed in (1) below and differences between the microphones in (2) below.

#### (1) Reproducer.

| Item                                                                                              | MX-932/U                                                                     | RP-104/UIH-2                                                               | RP-104A/UIH-2                                                                 |
|---------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------|----------------------------------------------------------------------------|-------------------------------------------------------------------------------|
| Turntable drive- . . . . .<br>Speed change components. . . . .                                    | Driving shaft (spindle).<br>Lever control linked to two-speed gear assembly. | Driving disk. . . . .<br>Lever control linked to three-speed cam assembly. | Driving shaft (spindle).<br>Knob control linked to three-speed gear assembly. |
| Stroboscope disk . . . . .<br>INPUT connector. . . . .                                            | Calibrated for two speeds. . . .<br>Two twist-lock male contacts.            | Calibrated for three speeds.,<br>Two curved male contacts.                 | Calibrated for three speeds.<br>Two curved male contacts.                     |
| Power cable. . . . .                                                                              | Not interchangeable with power cable of RP-104(*)/UIH-2.                     | Interchangeable with power cable of RP-104A/UIH-2 only.                    | Interchangeable with power cable of RP-104/UIH-2 only.                        |
| Reference symbols:<br>SPEAKER connectors. . . .<br>INPUT connector. . . . .<br>Cartridge. . . . . |                                                                              | J5 and J6. . . . .<br>J3. . . . .<br>PU1. . . . .                          | J5 and J6.<br>J3.<br>PUI.                                                     |

#### (2) Microphone.

| Item                      | M-23/U                                                                              | M-43/U                                                                            |
|---------------------------|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| Type. . . .<br>Connector. | Unidirectional.....<br>2-prong male which requires Special Purpose Cable CX-1207/U. | Omnidirectional.<br>3-hole female which requires Special Purpose Cable CX-2150/U. |

## CHAPTER 2

### INSTALLATION

#### 3. Unpacking

(fig.1)

a. *Packaging and Packing Data.* When packaged for shipment, the public address set is packed in a wooden case. The dimensions, volume, and weight of the MC-364-D and the AK/UIH-2, when prepared for shipment, are listed separately in the chart below

| Equipment | Dimensions (in.) | Volume (cu ft) | Weight (lb) |
|-----------|------------------|----------------|-------------|
| MC 364-D  | 37x22x16         | 7.5            | 142         |
| AN/UIH-2  | 37x22x16         | 7.5            | 168         |

#### 6. Unpacking.

- (1) Cut the metal straps and remove them from the wooden packing case.
- (2) Remove the nails from the wooden cover with a nail puller; remove the wooden cover.
- (3) Open the case liner, the outer corrugated carton, and the foil barrier and expose the inner corrugated cartons.
- (4) Open the inner corrugated cartons and expose the reproducer case and the loudspeaker assembly case.
- (5) Remove the wadding and lift out the two cases.
- (6) Open both cases and remove dust from the components with a soft, lint-free cloth.

#### 4. Checking Unpacked Equipment

a. Remove the cover from the reproducer and check to see that spare fuses are in the holder on the back (fig. 1, TM 11-5830-200-10). Unscrew the thumbscrews that secure the access door and be sure the electron tubes are securely mounted in their sockets (fig. 10). Secure the access door and replace the cover on the reproducer

b. Remove both rear covers from the loudspeaker assembly (fig. 12). Check to see that the loudspeaker diaphragms are not torn. Check

the cables for frayed ends and kinks. Open the spare parts compartment and the microphone compartment and check the condition of the contents. Close the compartment covers and replace the rear covers.

c. Check the equipment against the packing list. When no packing list accompanies the equipment, the table of components (TM 11-5830-200-10) and/or the packaging data (par. 3) may be used as a general check to indicate the equipment which *probably* has been packed.

d. Check the overall equipment for any loss or damage that might have occurred during shipment. If the equipment has been damaged or is incomplete, refer to the forms and records paragraph in TM 11-5830-200-10.

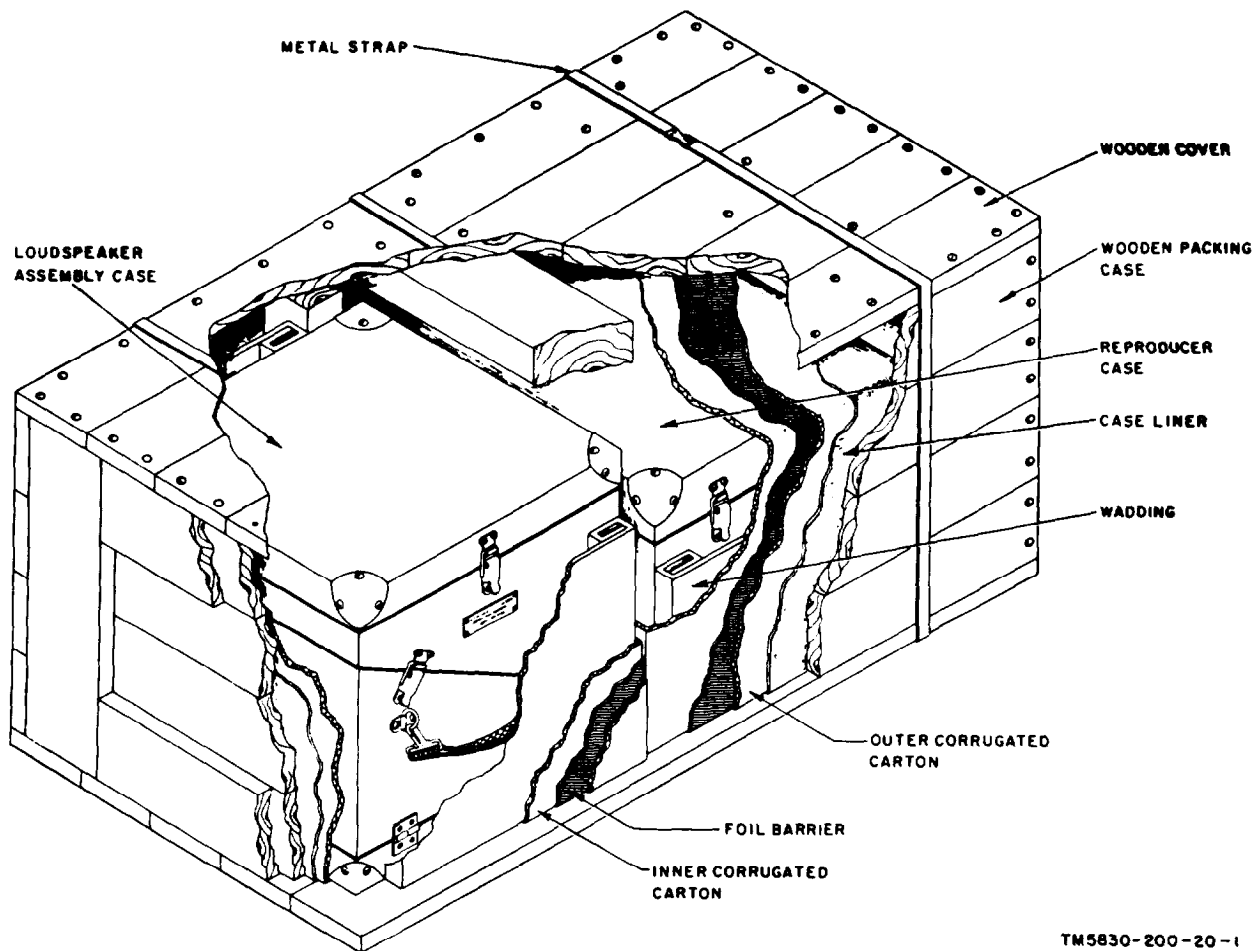
e. If the equipment has been used or reconditioned, check to see whether it has been changed by a modification work order (MWO). If modified, the MWO number will be marked on the equipment near the nomenclature plate.

#### 5. Siting

a. *General.* The site where the public address set will be located is governed by the operational situation and by the type of housing facilities available (tents, buildings, etc.). If possible, choose a location where a flat area is available for setting up the equipment. Be sure that an adequate power source is available (115 or 230 volts, 50 to 60 cycles).

b. *Reproducer and Microphone.* Locate the reproducer where there is enough room for the operator to operate the controls. When the microphone is being used, the microphone user should be easily and clearly seen by the reproducer operator.

c. *Loudspeakers.* Place the loudspeakers to the right and the left of the reproducer. If the loudspeakers are placed out-of-doors, provide shelter against inclement weather conditions. When the microphone is being used position the loudspeakers (face away from the microphone) to reduce feedback (howling).



TM5830-200-20-1

Figure 1. Packaging diagram.

## 6. Controls and Connectors

In addition to the indicator and controls listed in TM 11-5830-200-10, the following controls

and connectors are used by second echelon maintenance personnel.

Note. For location of the controls and connectors, refer to the appropriate illustrations in TM 11-5830-200-10.

| Control or connector    | Position                             | Function                                                                            |
|-------------------------|--------------------------------------|-------------------------------------------------------------------------------------|
| Voltage selector switch | 115V                                 | Adapts reproducer for 115-volt, 50- to 60-cps operation.                            |
|                         | 230V                                 | Adapts reproducer for 230-volt, 50, to 60-cps operation.                            |
| MIC connector           |                                      | Connects input signal from microphone, through microphone cable, to reproducer.     |
| SPEAKER connectors      |                                      | Connects output signal from reproducer, through loudspeaker cables, to loudspeaker. |
| INPUT connector         |                                      | Connects power source, through power cable, to reproducer.                          |
| OUTLET connector        |                                      | Connects power to stroboscope.                                                      |
| Speed regulator:        |                                      |                                                                                     |
| MX-932/U                | Lever adjustments:                   |                                                                                     |
|                         | Toward F increases turntable speed.  |                                                                                     |
|                         | Toward S decrease turntable speed.   |                                                                                     |
| RP-104/UIH-2            | Lever adjustments:                   |                                                                                     |
|                         | Toward F increases turntable speed.  |                                                                                     |
|                         | Toward S decreases turntable speed.  |                                                                                     |
| RP-104A/UIH-2           | Rotary adjustment:                   |                                                                                     |
|                         | Toward + increases turntable speed   |                                                                                     |
|                         | Toward -- decreases turntable speed. |                                                                                     |