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### **Technical Document Distribution**

**Brand:** Univox

Model EM200 Echo-Tech

**Product:** Echo Unit

**Description:** Service Schematics Dated: 1976

Musicparts Document Number: 40117 TechTips: 0 Pages: 5

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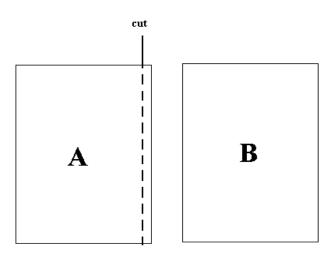
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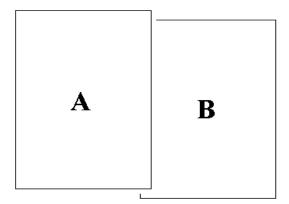
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### Two Sheet Pasteup Guide

11x17" paper size



It's ok to slightly cut into the black print, as documents contain an intentional extended overlaping printed area.



Only one trim cut is needed, then overlay as shown and tape.



## **Service Schematic**

# INSTALLATION PROCEDURE FOR EM200 ECHO-TECH MAGNETIC RECORDING DISC

**IMPORTANT NOTE:** The following procedure should be done with several IMPORTANT FACTS in mind.

- A) A CLEAN, dust-free area.
- B) Proper fitting Phillips type screw-driver (1 medium tip, 1 fine tip).
- C) A small container (such as small box, or jar), to hold assembly screws and parts.
- D) Make certain power (AC) cable is disconnected from wall outlet.
- E) Work slowly and carefully, THINK! You are working with a high quality recording device.

### 1. Removing Chassis from Case

- a) Turn carrying case on its side and remove four (4) rubber bumper/screw units from case bottom (Fig. 1).
- b) Carefully slide chassis from cabinet (unit removes from front of case) making certain AC line cord does not "catch" within cabinet.
- c) When you have removed chassis, place it with front panel facing you, down on work table. Position shown in Fig. 2.

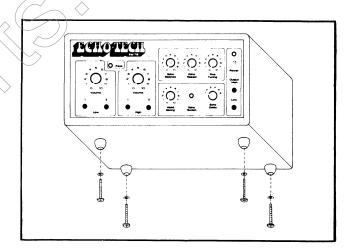


Figure 1 Case Bottom

- 2. Removing Dust Cover Make certain area around dust-cover is clean and free from dirt and dust before removal.
  - a) Remove six (6) mounting screws. Make certain you do not damage screw heads, for this will cause a problem in reassembly. Place parts in container (small box or jar) to prevent loss.
  - b) Carefully lift dust-cover from mount. Rubber gasket may stay in place, it is not necessary that gasket be removed. Simply realign on re-assembly. Wipe inside and outside with dust-free cloth and place cover on clean surface.

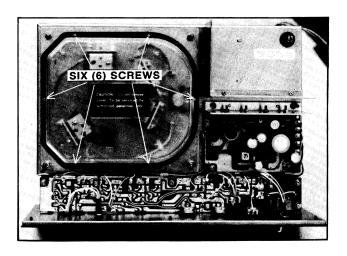


Figure 2

### 3. Removal of Tape Head Plate Assembly.

- a) Remove four (4) screws (Fig. 3) from plate assembly.
- b) Carefully lift plate assembly and lay it over on its side (Fig. 4). Make certain that the wires attached to assembly are not strained at anytime!
- c) Remove eight (8) screws (shown in Fig. 4), from flywheel. When recording disc is removed wipe flywheel surface with dust-free cloth.

#### 4. Re-Assembly

- a) Unpack new disc from carton and make certain all surfaces are CLEAN and **DUST-FREE!**
- b) Following illustration (Fig. 5) install your new disc. Both sides of disc should have "shiny" sides facing out.
- c) Install all screws by following sequence shown in Fig. 4. Allow screws to "touch" metal edge of disc. Repeat the sequence several times, evenly stretching disc over surface of flywheel (similar to installing drum-head on drum or tire wheel on your auto). Surface must be free of "bumps" or "warps" for proper operation.
- d) The last part of reassembly is the reverse procedure of Fig. 1, 2, 3.

To eliminate audible "Thump" from new disc during operation; carefully demagnetize the new disc with a bulk tape eraser, after disc assembly is complete.

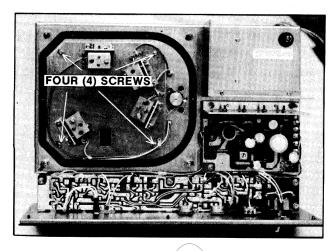


Figure 3

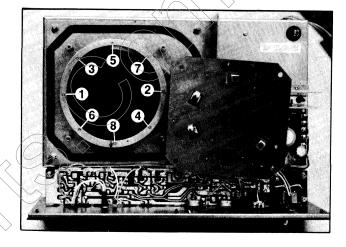


Figure 4

