

28E AND 28H TRANSMITTER DISTRIBUTOR UNIT (LXD)

DISASSEMBLY AND REASSEMBLY

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1. GENERAL

1.01 This section provides instructions for disassembly and reassembly of the 5-level 28E and 28H transmitter distributor unit. It is reissued to include the latest engineering changes and to standardize the format. These instructions outline a procedure for removing from the unit components or subassemblies, ie, tape guideplate assembly, rear plate assembly, main shaft assembly, and center plate assembly.

1.02 Most maintenance, lubrication, and adjustments can be done by removing the transmitter distributor from its base. If possible disassembly should be confined to the components or subassemblies which can, in most cases, be removed without disturbing the adjustments. However, when reassembling the unit, check all associated adjustments, clearances, and spring tensions.

CAUTION: DISCONNECT EXTERNAL AC OR DC POWER SOURCE BEFORE WORKING ON TRANSMITTER DISTRIBUTOR UNIT.

1.03 To facilitate adjustments on earlier models, a generous length of cable is provided between the unit and its terminal block to allow rotation or inversion of the unit. The ac or dc potential must be disconnected from its power source. Later model units plug into position on their bases.

1.04 Exercise care when replacing the unit to keep the cable free of any moving parts. For a more detailed illustration of the units, refer to the appropriate 28 transmitter distributor parts section.

1.05 Retaining rings are of spring steel and have a tendency to release suddenly. The loss can be minimized by holding the ring with the left hand to prevent it from rotating. Place the blade of a suitable screwdriver in one of the slots of the ring. Rotate the screwdriver in a direction to increase the diameter of the ring. The retaining rings should come off easily without flying.

1.06 If a shim mounted part is removed, note the number of shims used at each mounting point so that the same shim pile-up can be replaced when the part is reassembled.

1.07 Avoid loss of springs in disassembly by holding one spring loop with the left hand while gently removing the opposite loop with a spring hook. Do not stretch or distort springs while removing them.

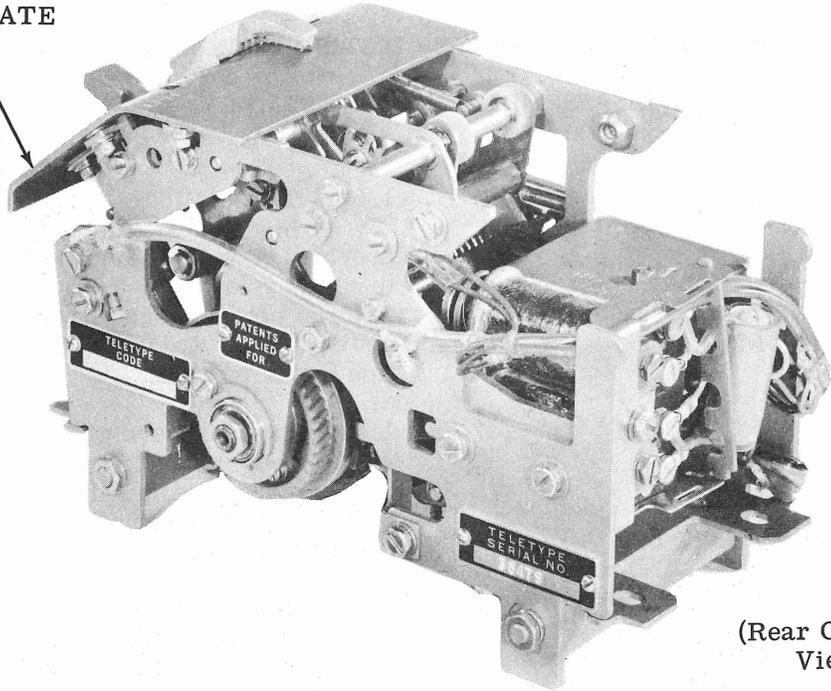
1.08 Remove three screws that secure the transmitter distributor unit to the base and lift unit free. On earlier models remove cable connections from the terminal board and cable clamps from the base.

2. DISASSEMBLY AND REASSEMBLY OF UNIT

COVERPLATE

2.01 To remove the coverplate assembly, lift the coverplate from its detented position.

TAPE
GUIDEPLATE



(Rear Oblique
View)

Figure 1 - Typical Transmitter Distributor (Coverplate Removed)

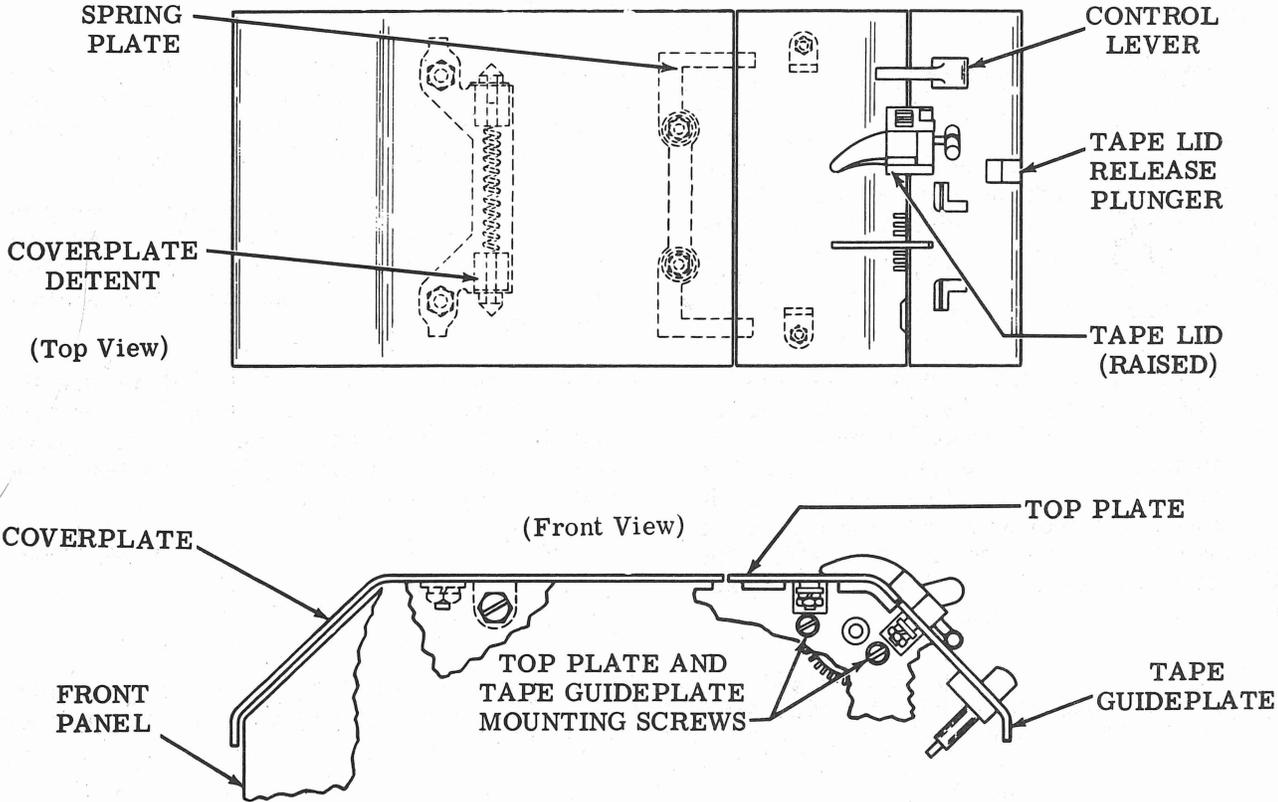


Figure 2 - Plate Assemblies

2.02 To replace the coverplate assembly, align the ends of the coverplate and top plate, slide the tips of the plate spring under the edge of the top plate, and snap the cover plate down into its detented position.

TOP PLATE

2.03 To remove top plate, loosen the front and rear mounting screws (Figure 2) and lift the plate upward.

2.04 To replace the top plate, guide the mounting screws into the notch of the front and rear plates. Align the sensing pins and feed wheel with their respective slots. Refer to TOP PLATE adjusting procedure if the plates do not align.

TAPE GUIDEPLATE

2.05 To remove the tape guideplate, loosen the front and rear mounting screws and slide the plate upward (Figure 2).

2.06 To replace the tape guideplate, guide the mounting screws into the respective notch of the front and rear plates while guiding the tape-out pin into its notch and locating the sensing pins against the left edge of the tape guideplate. Refer to TAPE GUIDEPLATE adjusting procedure.

OIL RESERVOIR

2.07 To remove the oil reservoir, remove the screws that secure the casting and lift the assembly upward and toward the right.

2.08 To replace the oil reservoir, reverse the procedure.

REAR PLATE ASSEMBLY

2.09 To remove the rear plate assembly:

- (a) Remove cable assembly leads from start-stop contact assembly and magnet assembly.
- (b) Remove hex nuts and lockwashers from bottom posts.

(c) Remove main shaft retaining ring.

(d) Remove screws TP151630 securing plate to post TP156622.

(e) Remove the two-screws which secure the clutch trip magnet assembly bracket to the rear plate and remove clutch trip magnet assembly.

(f) Remove rear plate assembly from the remainder of the unit.

2.10 To replace the rear plate assembly, reverse the procedured steps.

MAIN SHAFT ASSEMBLY

2.11 To remove the main shaft assembly:

(a) Remove the clamp TP156831 and plate TP156832 from the front plate assembly.

(b) Remove the main shaft assembly.

2.12 To replace the main shaft assembly, replace in the reverse order.

CENTER PLATE ASSEMBLY

2.13 To remove the center plate:

(a) Remove the post TP156622.

(b) Remove the two nuts which secure the center plate to the two guide posts.

(c) Remove the spring TP7603.

(d) Remove the center plate assembly.

2.14 To replace the center plate assembly, reverse the procedured steps.

2.15 When reinstalling the transmitter or transmitter distributor unit on the base, adjust the gear backlash as outlined in the section, 28 Transmitter Distributor Unit (LXD) — Adjustments.