

28 TAPE HANDLING STAND (LTHS) AND
 REPERFORATOR TRANSMITTER BASE (LRXB)
 DISASSEMBLY AND REASSEMBLY

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When reassembling the subassemblies, be sure to check all associated adjustments, clearances, and spring tensions.

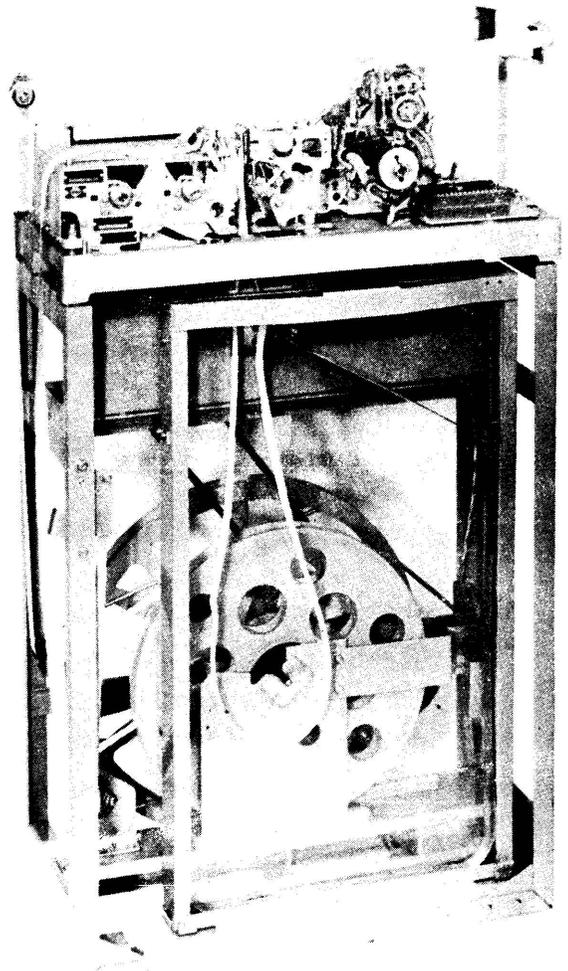
1.04 If a part that is mounted on shims is removed, the number of shims used at each of its mounting screws should be noted so that the same shim pile-up can be replaced when the part is remounted.

1. GENERAL

1.01 This section is issued to describe the disassembly and reassembly procedures for the 28 tape handling stand and reperforator transmitter base. Disassembly covers a procedure for removing the principal subassemblies which make up the unit.

1.02 Reference should be made to the exploded views found in the appropriate parts literature for an illustration of the mechanism to be disassembled, for location and visual identification of parts, and detailed disassembly and reassembly features.

1.03 Disassembly should be confined to subassemblies, which can, in some cases, be removed without disturbing adjustments.



Model 28 Reperforator Transmitter Set

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1.05 Retaining rings are made of spring steel and have a tendency to release suddenly when attempting to remove them. Loss of these retainers can be minimized as follows: Hold the retainer with the left hand to prevent it from rotating. Place the blade of a suitable screwdriver in one of the slots of the retainer. Rotate the screwdriver in a direction to increase the diameter of the retainer for removal.

1.06 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 when removing them.

Note: Disconnect power before starting any disassembly procedures.

1.07 When removing a subassembly from the unit, the procedure followed and the location from which parts are removed must be carefully noted so that reassembly can be done correctly. Where no specific instructions are given for reassembly, reverse the procedure used in removing it.

Note: Check the adjustments outlined in Section 573-104-700TC, whenever the reperforator or transmitter distributor has been remounted to the base.

2. DISASSEMBLY AND REASSEMBLY

REPERFORATOR TRANSMITTER - STANDARD SPEED SET

2.01 To remove reperforator unit from the base:

- (a) Remove the mounting screw that secures the tape alarm cable clamp.
- (b) Remove the hex mounting nut that secures the reperforator cable clamp adjacent to the reperforator 32-point connector.
- (c) Remove the mounting screws that secure the 32-point connector.
- (d) Remove the mounting screw that secures the TP156183 or TP156184 anchor bracket to the base. Remove the three mounting screws that secure the reperforator frame to the base. Lift the reperforator from the base.
- (e) To replace the reperforator unit on its base:

- (1) Place the reperforator unit on its base so that its three mounting holes line up with those in the base. Loosen the screw that secures the TP156183 or TP156184 anchor bracket to the punch assembly frame. Thread the previously removed mounting screw through the anchor bracket and into the tapped hole in the base, but do not tighten the screw. Start the remaining three mounting screws through the reperforator frame mounting holes into the tapped holes in base, but do not tighten the screws. Press the anchor bracket against the base and tighten the screw that secures the bracket to the punch assembly frame. Tighten the screw that secures the bracket to the base. Tighten the three screws that secure the reperforator frame to the base.

- (2) Replace the 32-point connector and cable clamps removed during disassembly.

2.02 To remove transmitter distributor from the base:

- (a) Disconnect the line shunt cable connectors.
- (b) Remove the two screws that secure the two transmitter distributor cable clamps.
- (c) Remove the mounting screws that secure the 32-point connector.
- (d) Remove the transmitter gear guard from the base.
- (e) Remove the three mounting screws that secure the transmitter to the base. Lift the transmitter from the base.
- (f) To replace the transmitter distributor, reverse the disassembly procedure. See 1.07 note before replacing cable clamps and 32-point connector.

Note: If it is necessary to readjust the vertical alignment of pivoted sensing head and punch, do not replace the cable clamps and 32-point connector for the transmitter distributor until the adjustment is completed.

2.03 To remove the reperforator transmitter base from the tape handling stand:

- (a) Remove the tape winder drive belt from the tape winder drive pulley.

- (b) Disconnect all plugs from their connectors on the tape handling stand frame.
 - (c) Loosen the three captive screws securing the base to the stand, and lift the base from the stand.
- 2.04 To remove tape winder drive bracket assembly:
- (a) Remove the four mounting screws, lockwashers, and flat washers that secure the TP158748 tape winder drive bracket to the base.
 - (b) Remove the bracket and note the number of TP158750 shims between the bracket and the base.
- 2.05 To remove the cross shaft assembly:
- (a) Remove the screw and lockwasher that secure the TP158745 bearing clamp.
 - (b) Remove the cross shaft bearing retaining screws, washers, and nuts.
 - (c) Remove the cross shaft driven gear hub mounting screw and lockwasher.
 - (d) Slide cross shaft assembly sideways out of bearing seats and remove shaft assembly from base.
- 2.06 To remove gear bracket assembly (fixed speed or shift gears):
- (a) Remove the transmitter and reperforator gear covers.
 - (b) Remove the three gear bracket mounting screws and washers, and remove the gear bracket assembly.
- (d) Lift the reperforator from the base.
- (e) To replace the reperforator unit, reverse the disassembly procedure.
- 2.08 To remove high speed tape reader from the base:
- (a) Remove the three mounting screws and washers that secure the gear guard, and remove the gear guard.
 - (b) Remove the three mounting screws and lockwashers that secure the casting to its mounting plate.
 - (c) Remove the reader from the base.
 - (d) To replace the high speed tape reader, reverse the disassembly procedure.
- 2.09 To remove the reperforator transmitter base from the tape handling stand:
- (a) Remove the four screws and washers securing the alarm plug to the tape handling stand connector plate.
 - (b) Remove the four screws, spacers, and washers that secure the connector plate to the tape handling stand.
 - (c) Remove the tape winder drive belt from the tape winder drive pulley.
 - (d) Remove the tape bin motor plug and loosen the three captive base mounting screws. Lift the base from the stand.
- 2.10 To remove tape winder drive bracket assembly: See 2.04 in this section.
- 2.11 To remove cross shaft assembly: See 2.05 in this section.
- 2.12 To remove gear bracket assembly: See 2.06 in this section.

REPERFORATOR TRANSMITTER BASE - LOW TO HIGH SPEED SET

- 2.07 To remove reperforator unit from the base:
- (a) Remove the 36-point connector.
 - (b) Remove the two mounting screws and washers that secure the gear cover, and remove the gear cover.
 - (c) Remove the three mounting screws and washers securing the reperforator.

REPERFORATOR TRANSMITTER BASE - HIGH TO LOW SPEED SET

- 2.13 To remove high speed reperforator unit from the base:
- (a) Remove the 36-point male plug.
 - (b) Remove the two screws and washers that secure the 36-point female plug to its mounting bracket.

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- (c) Loosen the setscrews securing the rubber coupling between the sprocket drive shaft and the high speed reperfocator drive shaft.
- (d) Remove the five mounting screws and washers securing the reperfocator to its mounting bracket and remove the reperfocator.
- (e) To replace the reperfocator unit, reverse the disassembly procedure.

2.14 To remove transmitter distributor from the base:

- (a) Loosen the screw that secures the mounting bracket at the reader end of the transmitter distributor, and swing the bracket clear of the casting.
- (b) Remove the three screws and washers that secure the gear housing.
- (c) Remove the two mounting screws and washers at the distributor end of the unit, and lift the transmitter distributor from the base.

2.15 See 2.09, 2.10, 2.11, and 2.12 in this section for remaining disassembly procedure.

REPERFORATOR TRANSMITTER BASE - HIGH TO LOW SPEED SET (UNITS WITH V BELT DRIVE)

2.16 To remove high speed reperfocator unit from the base:

- (a) Remove the 25-point male plug.
- (b) Remove the two screws and washers that secure the 25-point female plug to its mounting bracket.
- (c) Remove the four mounting screws and washers securing the reperfocator to its mounting bracket, and remove the reperfocator.
- (d) To replace the reperfocator unit, reverse the disassembly procedure.

2.17 To remove transmitter distributor from the base:

- (a) Loosen the screw that secures the mounting bracket at the reader end of the transmitter distributor, and swing the bracket clear of the casting.
- (b) Remove the three screws and washers that secure the gear housing.
- (c) Remove the two mounting screws and washers at the distributor end of the unit, and lift the transmitter distributor from the base.

2.18 See 2.09, 2.10, 2.11, and 2.12 of this section for remaining disassembly procedure.

STANDARD SPEED TAPE HANDLING STAND

2.19 Remove the tape supply and take-up reels and the intermediate tape storage bin.

2.20 To remove tape winder assembly:

- (a) Remove the two screws and lockwashers that secure the TP158995 capacitor bracket to the tape winder base plate.
- (b) Remove the two screws, lockwashers, and flat washers that secure the TP159214 support bracket to the TP158972 bracket.
- (c) Remove the four screws, lockwashers, and flat washers that secure the tape winder assembly to stand frame.
- (d) Unhook the tape supply arm.
- (e) Remove the tape winder assembly from the stand.

2.21 To remove clutch shaft assembly:

- (a) Remove the intermediate gear hub mounting screw and lockwashers, and remove the intermediate gear and hub.
- (b) Remove the drive belt.
- (c) Unhook the stop lever spring.
- (d) Remove the two screws, lockwashers, and flat washers that secure the TP158983 intermediate gear bracket to the TP158972 bracket and remove the intermediate gear bracket with stop lever attached.
- (e) Remove the two screws, lockwashers, and flat washers that secure the TP158986 outer clutch bearing bracket to the TP126902 outer plate, and remove the bracket.

- (f) Remove the two screws, lockwashers, and flat washers that secure the TP160191 inner bearing plate to the TP126902 outer plate and remove the clutch shaft assembly.

HIGH SPEED TAPE HANDLING STAND

- 2.22 Remove the tape supply and take-up reels and the intermediate tape storage bin.

2.23 To remove tape winder assembly:

- (a) Remove the four screws and washers that secure the two TP170828 crossbars to the tape handling stand frame.
- (b) Remove the two screws and washers that secure the TP170827 "U" bracket to the TP170826 bracket at the rear of the winder assembly.
- (c) Remove the tape winder assembly.