

28 AUTOMATIC SEND-RECEIVE (ASR)
TELETYPEWRITER SET

DISASSEMBLY AND REASSEMBLY

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1. GENERAL

- 1.01 This section provides the procedure for the disassembly and reassembly of the 28 Automatic Send-Receive (ASR) Teletypewriter Set.
- 1.02 The sequence outlined herein should be followed when disassembly of a complete set is undertaken.
- 1.03 References to direction are made as viewed from the front of the set.

CAUTION: REMOVE ELECTRICAL POWER FROM SET BEFORE STARTING DISASSEMBLY.

1.04 For part numbers referred to, see appropriate section covering parts ordering information.

Note: Refer to Section 570-005-800TC for list of tools available.

2. DISASSEMBLY AND REASSEMBLY

2.01 When removing a unit from the set, carefully note the location from which the mounting screws are removed to aid in reassembly. Where no specific instructions are given for reassembly, reverse the procedure used in removing it.

2.02 Unlatch and raise the cabinet dome.

AUXILIARY TYPING REPERFORATOR AND BASE

2.03 Disconnect the cable connector at the rear of the auxiliary typing reperforator. Remove the three screws that mount the reperforator to its base, and the screw that secures the anchor bracket to the base. Lift the reperforator from the base.

2.04 Unscrew the knurled locking ring that secures the auxiliary power cable to the receptacle on the auxiliary reperforator base. Disconnect the cable.

2.05 Remove the three screws, two lockwashers, one lockwasher and three flat washers that secure the base to its mounting studs. Lift the base, motor, and tape container out of the cabinet.

TYPING UNIT

2.06 Disconnect the cable from the right side frame of the typing unit. Remove the four screws that secure the typing unit to its base.

With the right hand under the rear of the right side frame and left hand under the left end of the front plate, lift the typing unit out of the cabinet.

FRONT PANEL

2.07 Remove the keyboard selector switch control knob by loosening its setscrew. Remove the screws that secure the designation plate and slide the plate out from beneath the rubber noise shield.

2.08 Remove the two screws from the front panel. Loosen the thumb screw and slide the front panel to the right and upward to remove it from the cabinet. Exercise care to avoid damage to the character counter scale.

2.09 Loosen, but do not remove, the two screws locking the crossbar to the left side of the cabinet. Remove the TP151723 screw, TP2669 lockwasher, and TP117535 flat washer. Push back on the left end of the crossbar to disengage it from the cabinet, and move the crossbar to the left to disengage it from the slot in the adjusting plate. Lift the crossbar from the cabinet.

2.10 Disconnect the two TP158020 flexible couplings from the TP158013 shaft between the perforator-transmitter base and the transmitter-distributor base.

CAUTION: DO NOT REMOVE THE FACTORY ADJUSTED PLATE (TP154416).

2.11 Cradle mounted components on the cabinet shelf may be moved forward slightly after the front panel and crossbar have been removed. This will provide sufficient room to remove the electrical service unit without removing the perforator-transmitter base and may aid in servicing the cabinet terminal boards.

(a) If it is desirable to move the cradle forward, loosen, but do not remove, the four TP79890 screws and slide the cradle forward on its rails. It will move a maximum of approximately one inch.

(b) To reposition the cradle, slide it back until the rear base rail contacts the detents. Tighten the two screws.

KEYBOARD

2.12 Remove the four screws which mount the perforator-transmitter base to the cradle. Disconnect the cable near the rear of the unit. If a reperforator is used, disconnect the signal line cable from the rear of the reperforator.

2.13 Remove the perforator-transmitter base, with the perforator or reperforator and motor as a unit, from the cabinet.

2.14 Do not remove the perforator or reperforator from the base unless it is necessary for maintenance purposes.

2.15 If it is necessary to remove the perforator or reperforator from the base, proceed as follows. Remove the screw which fastens the anchor bracket to the base in front of the perforating mechanism. Remove the three screws which secure the perforator or reperforator to the base. If the unit is equipped with backspace mechanism, tilt it over and remove the electrical connections from the power drive magnet underneath the perforator mechanism. Lift unit off the base.

2.16 If the motor unit is to be removed from the perforator-transmitter base, disconnect the motor leads from the terminal block and tag the leads. Remove the four motor mounting screws. Lift motor unit off.

ELECTRICAL SERVICE UNIT

2.17 Remove the mounting stud from each end of electrical service unit. Disconnect the power switch shaft near the right end of the unit by applying pressure against the tension of the retaining spring on the shaft and slipping the shaft out of the unit.

2.18 The electrical service unit may now be inverted for servicing. If it is desirable to completely remove the unit from the cabinet, disconnect the cable wires from the terminal boards at the rear of the cabinet. In replacing the cable wires, it may be necessary to refer to the appropriate wiring diagram.

TRANSMITTER DISTRIBUTOR

2.19 Unscrew the three mounting screws until they are withdrawn from the base casting. If the transmitter distributor has cable connec-

tions, unplug the cable from the base connector. Lift unit off.

AUXILIARY ELECTRICAL SERVICE ASSEMBLY

2.20 If the set is equipped with an auxiliary electrical service unit, open the panel underneath the keyboard by turning the 1/4-turn fasteners with a coin or screwdriver and lower the panel. Remove the mounting screw at each end of the electrical service unit and lift unit off

the rack for servicing. If it is necessary to completely remove the unit, unfasten the cables at the terminal board of the cabinet.

REASSEMBLY

2.21 To reassemble the units into the set, reverse the procedure used in removing them. If necessary, refer to the section "28 Automatic Send-Receive Teletypewriter Sets (ASR) Installation of Component Units." Also refer to appropriate wiring diagram if necessary for replacement of cable wiring.