

37 RECEIVE-ONLY TYPING REPERFORATOR (ROTR) SET

REMOVAL AND REPLACEMENT OF COMPONENTS

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1.03 References to left or right, up or down, top or bottom, etc, refer to the unit to be viewed with the take-up reel to the left and the control panel directly in front of the operator.

1.04 All tools used to remove the major components referred to in this section can be found in the 570-005-800 standard tool section.

1.05 All damaged, worn, or distorted parts should be replaced if encountered in the removal and replacement procedure.

CAUTION: REMOVE POWER BEFORE REMOVING COMPONENTS FROM THE SET.

1. GENERAL

1.01 This section is issued to provide removal and replacement instructions for the major components of the 37 Receive-Only Typing Reperforator (ROTR) Set (Figure 1).

1.02 The removal procedures given in this section subdivide the set into its major components. If further disassembly of a component is required, refer to the appropriate disassembly and reassembly section. Where it will help in determining their location, the numbers of the parts, which can be found in the illustrated parts section, are given in the instructions.



Figure 1 - 37 ROTR Set

2. REMOVAL AND REPLACEMENT OF COMPONENTS

Note: It is advisable to remove all paper tape from the unit before removing or replacing any components.

COVER

2.01 To remove the cover from the base pan (Figure 2 and 3), proceed as follows.

- (1) Depress the latch that holds the take-up reel and its hub assembly in place. Pull the reel and the hub assembly away from the cover.
- (2) Lift the cover lid up and back until it latches in an upright position.
- (3) Disconnect the black ground wire connected to the rear of the cover.

Note: Copper braided ground strap should not be removed.

- (4) Loosen the four TP95049 mounting screws that secure the cover to the base pan.
- (5) Gently lift the cover off of the base pan.

- (6) To replace the cover, reverse the procedure used to remove it.

TYPING REPERFORATOR

2.02 To remove the typing reperforator from the base (Figures 3, 4, and 5), proceed as follows.

- (1) Remove the cover assembly as described in 2.01.
- (2) Remove the TP334414 plastic chad chute extension from the typing reperforator by loosening the TP151152 chad chute retaining bracket screw.
- (3) Remove the 50-pin connector from the rear of the typing reperforator.
- (4) Remove the TP300895 toothed belt from the TP179657 gear attached to the main shaft of the typing reperforator.
- (5) Remove the three TP156887 screws, TP2669 lockwashers, and TP3438 flat washers that mount the typing reperforator to the base.
- (6) The typing reperforator can now be removed from the base.

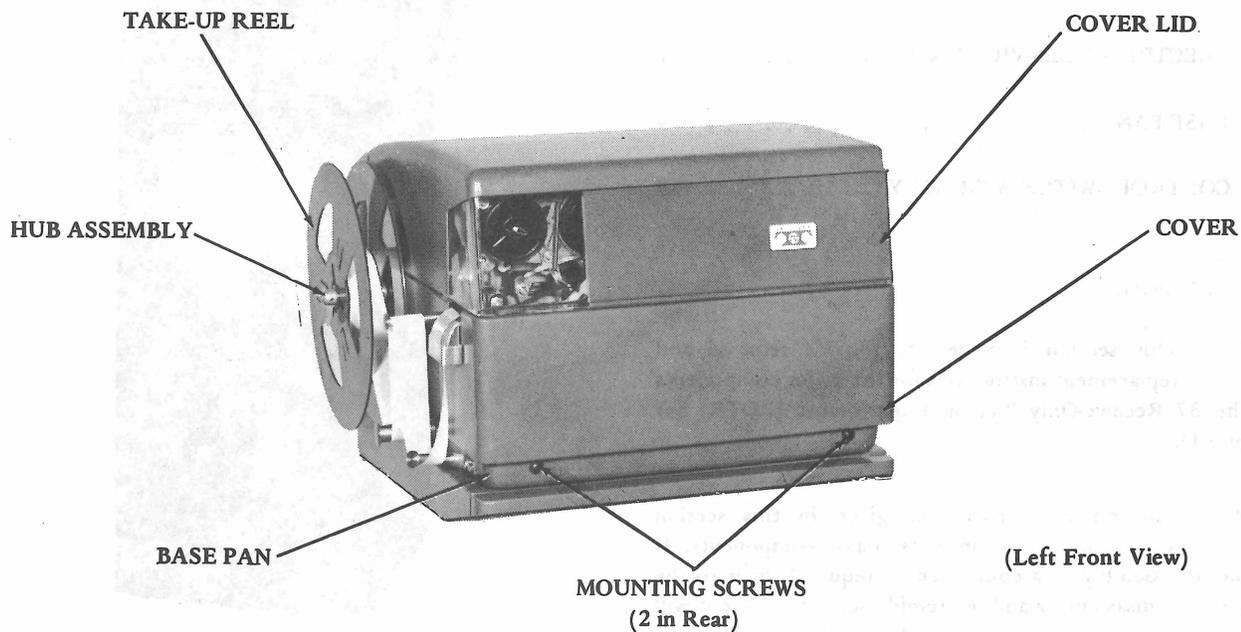


Figure 2 - 37 ROTR With Cover

- (7) To replace the typing reperforator, reverse the procedure used to remove it.

Note: The toothed belt should have just enough slack so that applying a pressure of 2 to 6 ounces on its center, will cause it to move 1/16 to 3/16 of an inch downward.

MOTOR UNIT

2.03 To remove the motor unit (Figures 5 and 6), proceed as follows.

- (1) Remove the cover assembly as described in 2.01.

- (2) Disconnect the two single-pin connectors that supply power to the motor.

- (3) Remove the two mounting screws that secure the intermediate gear guard in place.

- (4) Remove the TP193751 toothed belt from between the motor pulley and the tape winder pulley.

- (5) Remove the four TP156936 screws and TP2449 lockwashers that secure the motor to its mounting posts and adjusting plate.

- (6) The motor can now be removed from the unit.

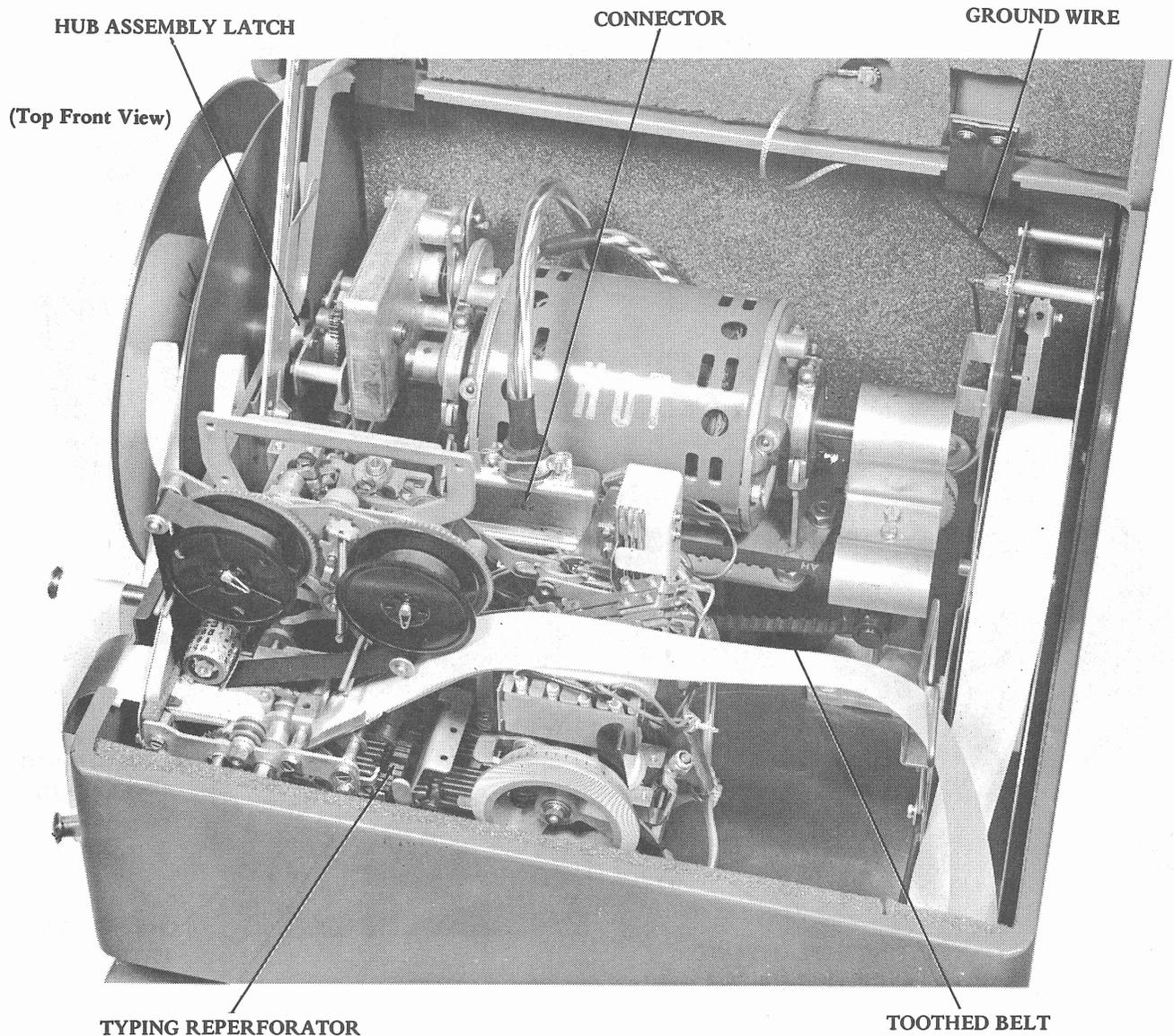


Figure 3 - 37 ROTR With Cover Open

- (7) To replace the motor unit, reverse the procedure used to remove it.

Note 1: If the TP125244 nut and TP2449 lockwasher that hold the adjusting stud in place were not disturbed during the removal and replacement procedure, proper gear mesh will have been retained. If either of these parts have been loosened or a new motor has been installed, see Note 2 below.

Note 2: The gear on the motor and the gear on the intermediate drive assembly should mesh at a 90 degree angle. The gears should have a minimum of 0.004 inch and a maximum of 0.008 inch backlash at the point of least clearance.

INTERMEDIATE DRIVE ASSEMBLY

2.04 To remove the intermediate drive assembly (Figures 5 and 6), proceed as follows.

- (1) Remove the cover assembly as described in 2.01.
- (2) Take off the intermediate drive assembly gear guard by first removing the two mounting screws that hold it in place.
- (3) Remove the toothed belt from between the intermediate drive assembly and the typing reperforator.

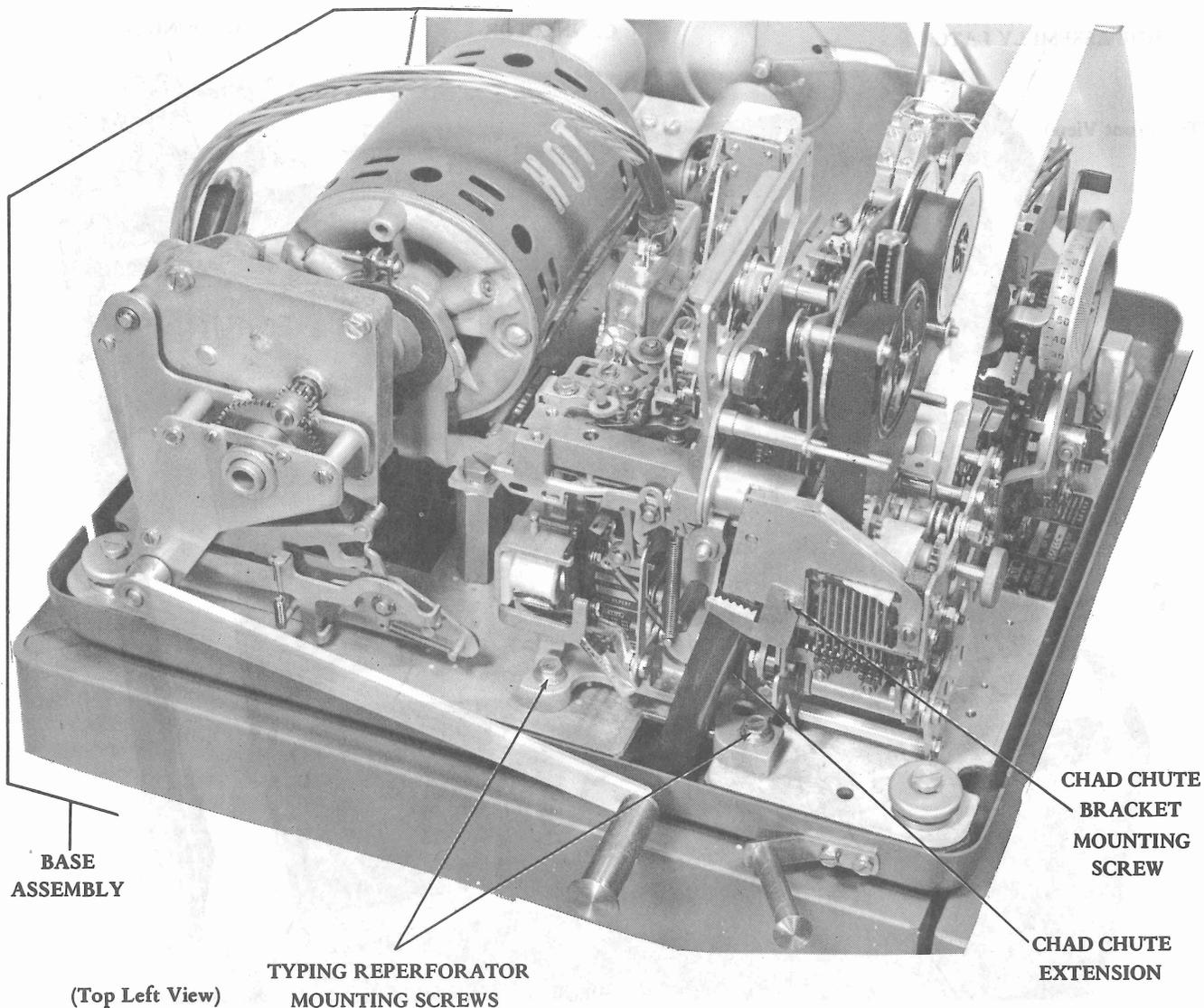


Figure 4 - Cover Removed Showing all Components

- (4) Remove the three mounting screws that secure the intermediate drive assembly to the base.
- (5) The drive assembly can now be removed.
- (6) To replace the assembly, reverse the procedure used to remove it.

Note: See the notes at the end of 2.02 and 2.03 for proper belt slack and gear mesh requirements.

TAPE WINDER ASSEMBLY

2.05 To remove the tape winder mechanism (Figures 5 and 6), proceed as follows.

- (1) Remove the cover as described in 2.01.
- (2) Remove the TP193751 belt from between the motor pulley and the tape winder pulley.

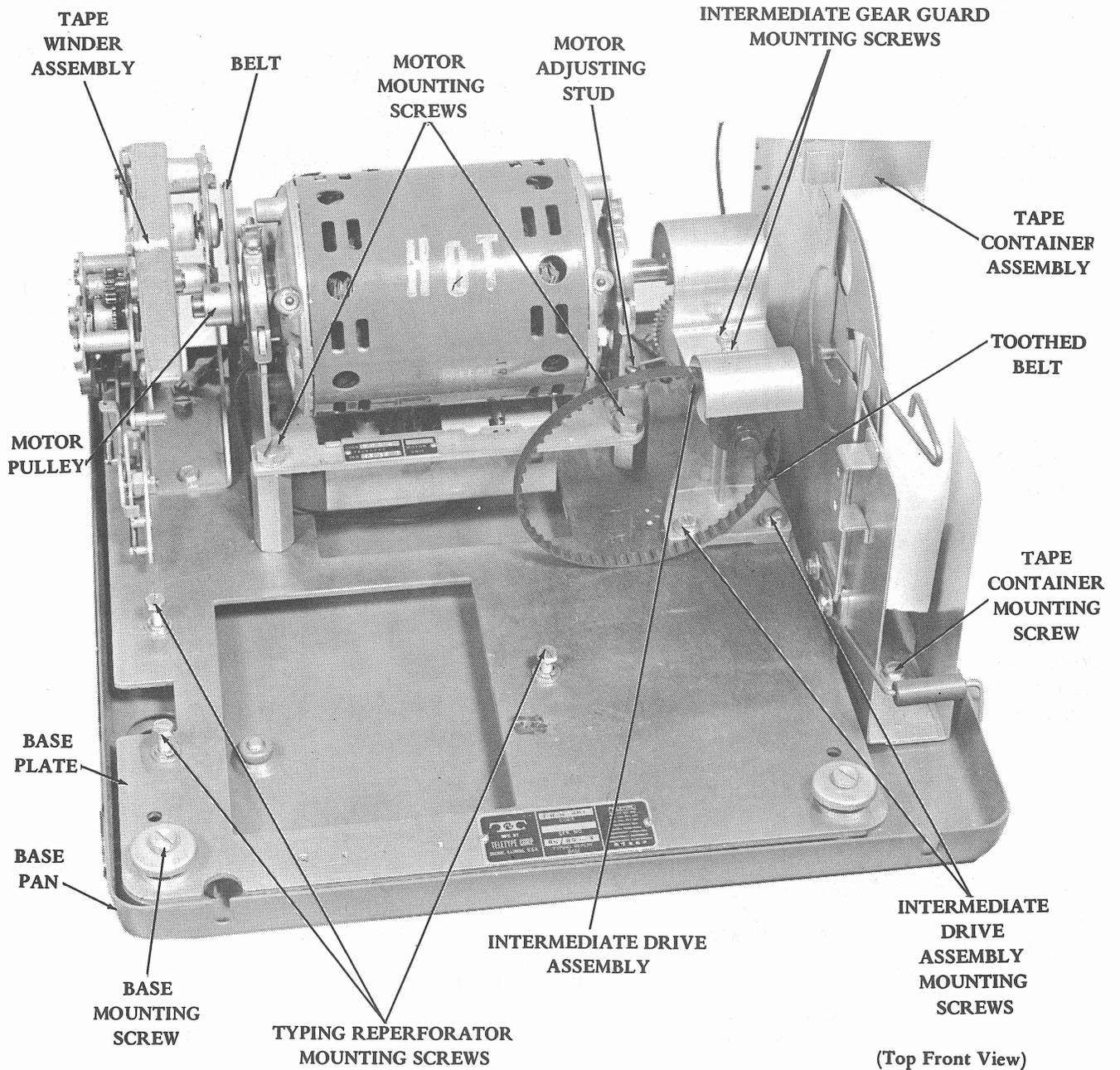


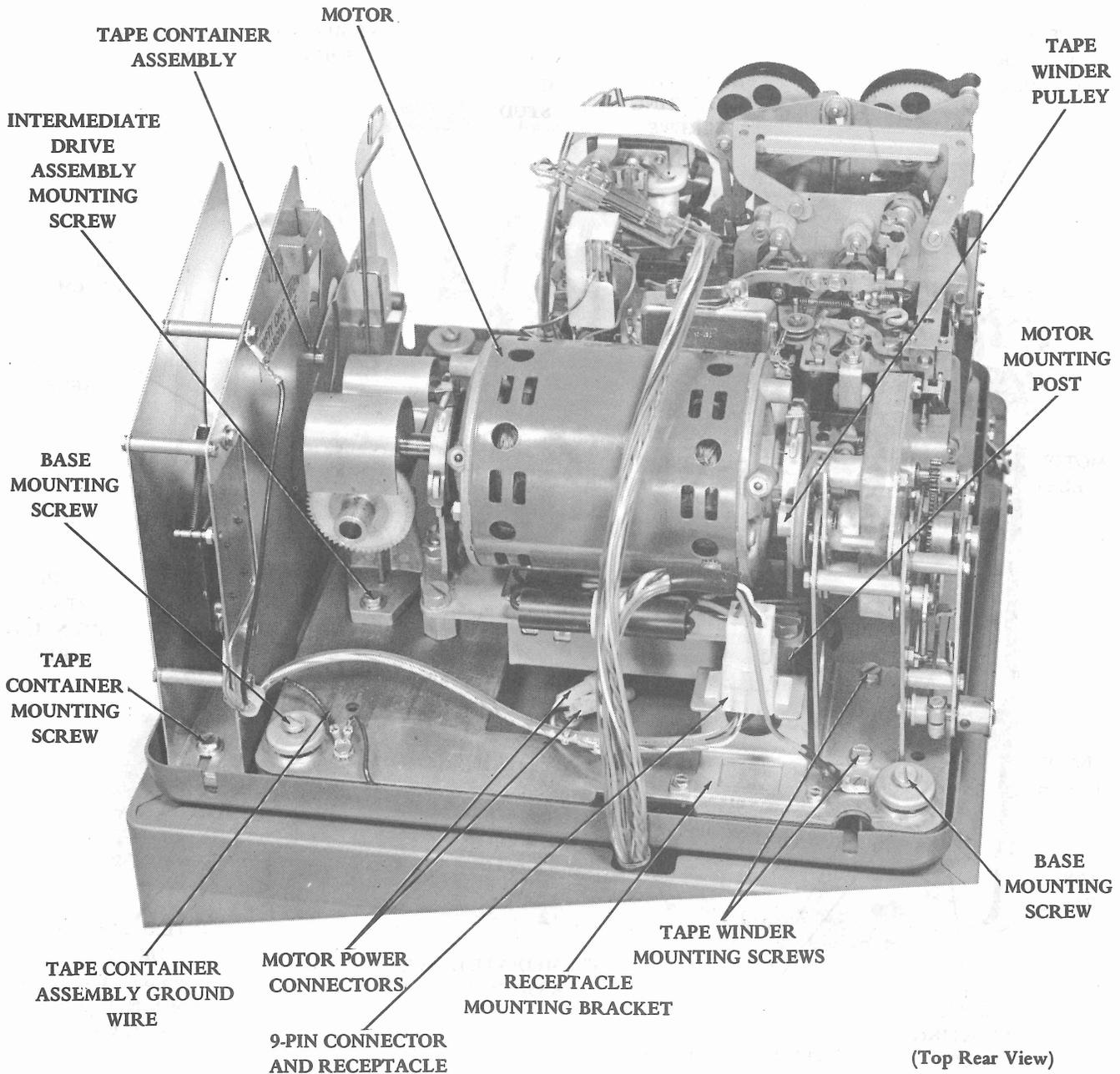
Figure 5 - Typing Reperforator Removed

- (3) Remove the two TP151722 screws and TP2191 lockwashers that secure the tape winder to the base.
- (4) The tape winder assembly can now be removed.
- (5) To replace the tape winder mechanism, reverse the procedure used to remove it.

TAPE CONTAINER ASSEMBLY

2.06 To remove the tape container assembly (Figures 5 and 6), proceed as follows.

- (1) Remove the cover as described in 2.01.
- (2) Unplug the 9-pin connector from its receptacle.



(Top Rear View)

Figure 6 - Motor and Tape Winder

- (3) Depress the flanges on the 9-pin receptacle and pull it out from its mounting bracket.
- (4) Disconnect the two single-pin connectors that lead to the motor.
- (5) Remove the screw that secures the tape container assembly ground wire and the cover ground wire to the base.

Note: Replace the cover ground wire and screw but do not tighten down.

- (6) Loosen, but do not remove, the two TP151623 screws that secure the tape container assembly to the base.
- (7) The tape container assembly can now be removed by sliding it forward and lifting out.
- (8) To replace the assembly, reverse the procedure used to remove it.

BASE ASSEMBLY

- 2.07 To remove the base assembly (Figures 4, 5 and 6), proceed as follows.
- (1) Remove the cover as described in 2.01.
 - (2) Remove the 50-pin connector from the rear of the typing reperforator.
 - (3) Remove the screw that secures the tape container assembly ground wire and cover ground wire to the base.
 - (4) Remove the ground wire located at the rear of the tape winder mechanism.
 - (5) Depress the flanges on the 9-pin receptacle and pull it out from its mounting bracket.
 - (6) Disconnect the two single-pin connectors that lead to the motor.
 - (7) Remove the four TP334908 mounting screws and their associated hardware that secure the base plate to the base pan.
 - (8) The base plate assembly can now be removed.
 - (9) To replace the base plate assembly, reverse the procedure used to remove it.

BASE PLATE

- 2.08 To remove the base plate (Figures 5 and 6), proceed as follows.
- (1) Remove the base assembly as described in 2.07.
 - (2) Remove the typing reperforator as described in 2.02.
 - (3) Remove the motor unit as described in 2.03.
 - (4) Remove the intermediate drive assembly as described in 2.04.
 - (5) Remove the tape winder assembly as described in 2.05.
 - (6) All components have now been removed from the base plate.
 - (7) Components can be replaced on the base plate by reversing the procedure used to remove them.

ELECTRICAL SERVICE UNIT

- 2.09 To remove the electrical service unit (Figures 7 and 8), proceed as follows.
- (1) Disconnect the ground wire from the connector in the bottom of the table.
 - (2) Remove the four mounting screws that secure the electrical service unit to the table.
 - (3) Remove the cable retainers and associated hardware from the door and the table.
 - (4) Pull the unit forward being careful not to put excess strain on the connecting cables.
 - (5) Remove the rear most TP333169 base pan mounting screw from the inside top of the table.
 - (6) Disconnect the connecting cables from the door and the base assembly.
 - (7) Lift the rear of the base pan to allow the connectors to pass through the hole in the table.
 - (8) The electrical service unit can now be removed from the set.
 - (9) To replace the unit, reverse the procedure used to remove it.

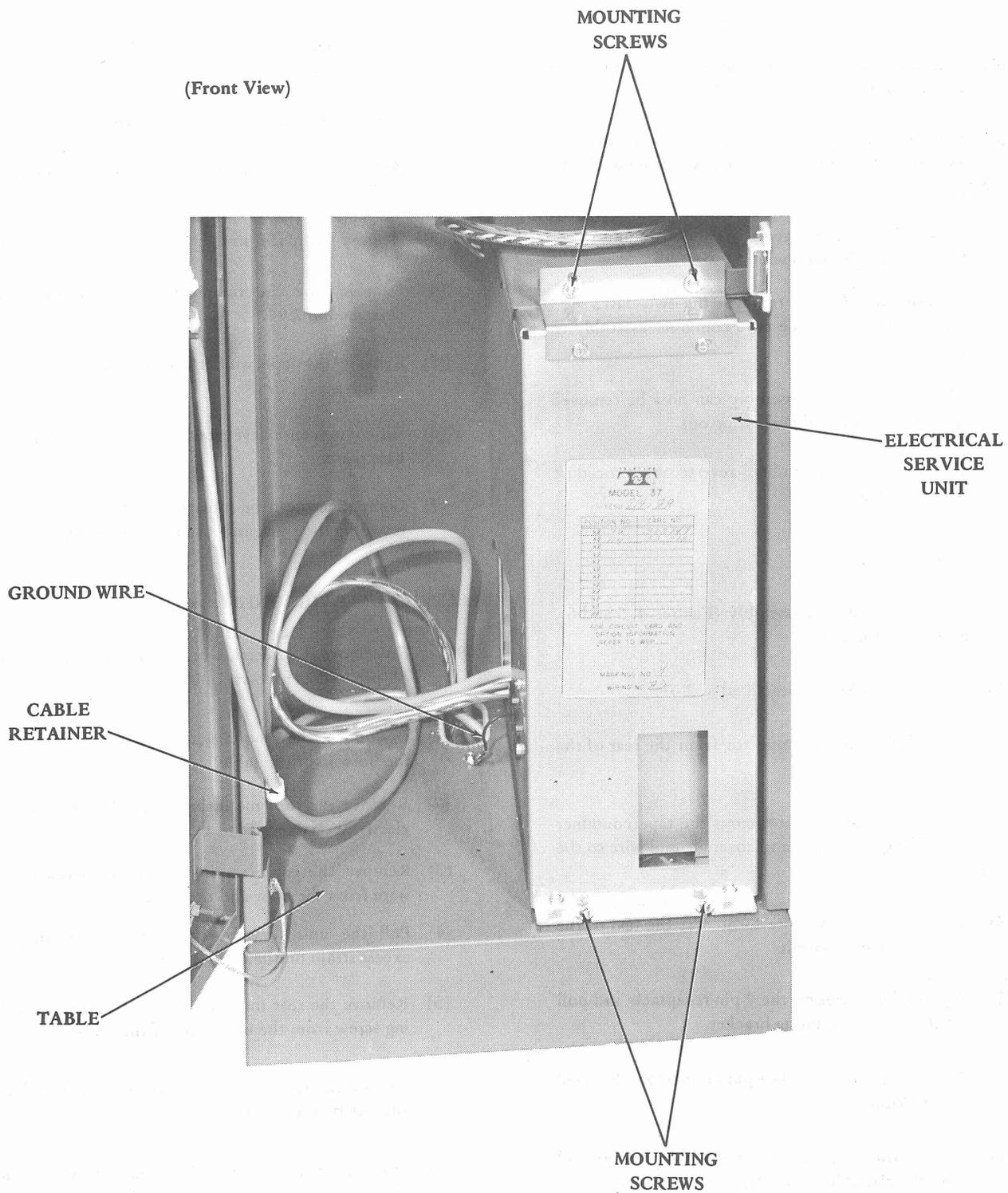


Figure 7 - Electrical Service Unit

BASE PAN

2.10 To remove the base pan (Figure 8), proceed as follows.

- (1) Remove the cover as described in 2.01.
- (2) Remove the base assembly as described in 2.07.
- (3) Remove the tape container assembly as described in 2.06.
- (4) Remove the three TP333169 mounting screws that secure the base pan to the table.
- (5) The base pan can now be removed.

- (6) To replace the base pan, reverse the procedure used to remove it.

CONTROL SWITCH ASSEMBLY

2.11 To remove the control switch assembly (Figure 8), proceed as follows.

- (1) Disconnect the cable from the rear of the control switch.
- (2) Remove the four nuts and lockwashers that secure the control switch assembly to the mounting studs on the door.
- (3) The control switch assembly can now be removed.
- (4) To replace the control switch assembly, reverse the procedure used to remove it.

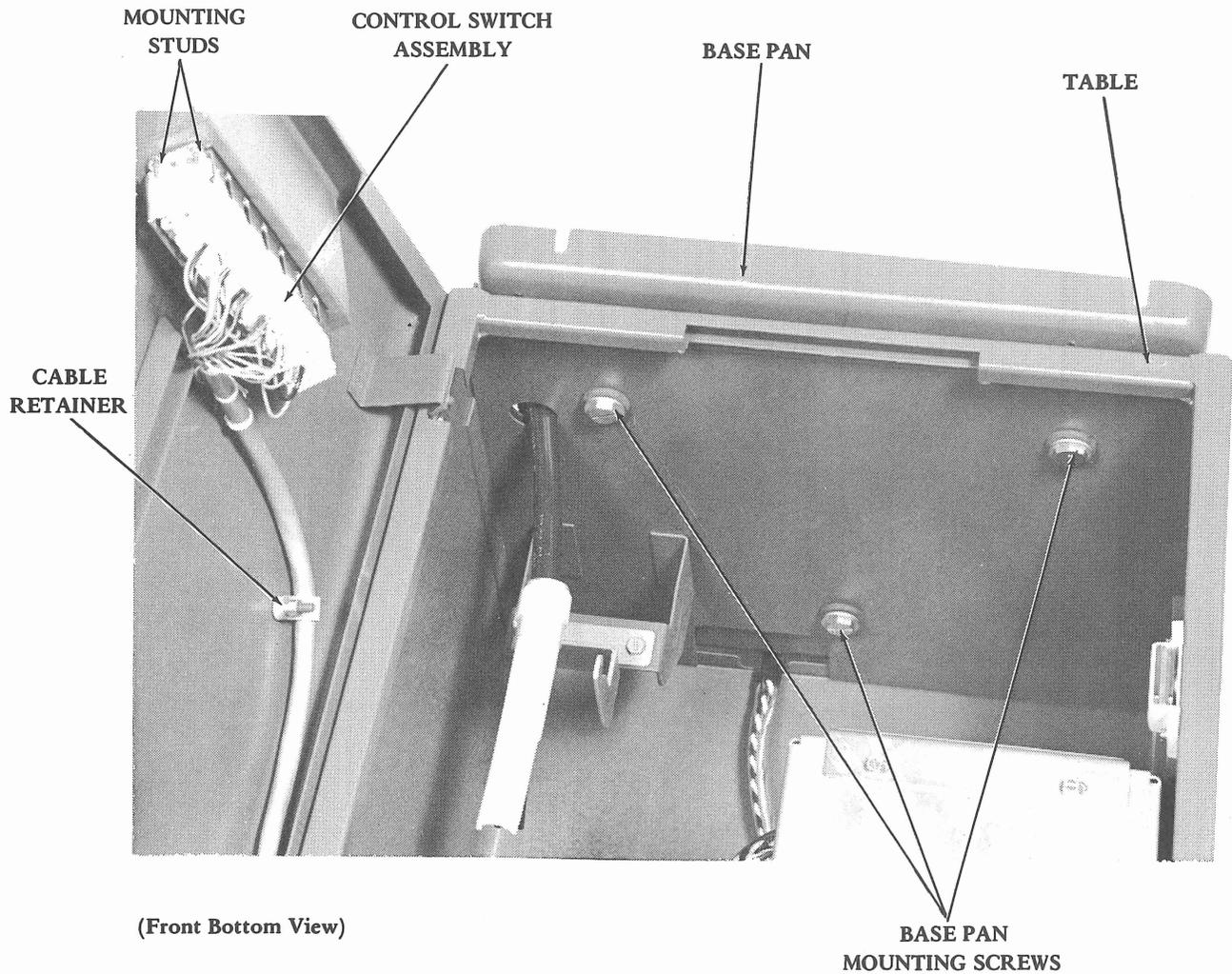


Figure 8 - Base Pan and Control Switch