

**NO. 1 ELECTRONIC SWITCHING SYSTEM, ADF
HALF-DUPLEX—150 WORD PER MINUTE DATA STATION
USING ASCII CODE
DISASSEMBLY AND REASSEMBLY**

1. GENERAL

1.01 This section describes the procedures to be followed when the disassembly and reassembly of a 37 Teletypewriter (TTY) Receive Only (RO) data station is required (Fig. 1).

1.02 The procedures are designed to remove individual subassemblies for maintenance and/or replacement, and to reassemble the subassemblies into a complete station.

1.03 This section describes the disassembly and reassembly of the following subassemblies:

- Cover
- Typing Unit
- Base and Motor Unit
- Electrical Service Unit (ESU)
- Data Auxiliary Set 804R3 (Attendant Set)
- Data Auxiliary Set 820B4 (Station Controller)

THINK *Disconnect the power cord from the customer 117-volt ac receptacle before performing any procedure.*

2. DISASSEMBLY OF 37 RO TTY DATA STATION

2.01 Cover Removal:

- (1) Open front lid (Fig. 2) by depressing the two flush latches located on the top front of the rear lid.
- (2) Open cover by depressing flush latches on each side and raising the lid.

Note: Do not lift cover until J302 (copy light connector) is disconnected.

(3) Disconnect J302 connector. J302 is located at the right rear of the typing unit, next to the AMPHENOL® connector P306 (Fig. 3).

(4) After J302 is disconnected, hold cover in open position and remove screw holding retaining arm to right side of cover. Slide cover to the right to disengage hinges holding the hinge retainer on the left side.

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2.02 Typing Unit Subassembly Removal:

- (1) Perform 2.01 (cover removal).
- (2) Disconnect P306 connector (Fig. 3).
- (3) Remove paper supply from typing unit.
- (4) Loosen four mounting screws at ends of function key and lamp strip; lift strip and rotate forward to provide clearance for typing unit removal (Fig. 4).
- (5) Remove the four typing unit mounting screws (Fig. 5, 6, and 7).

Note: A screwdriver is required to loosen the right rear mounting screw (Fig. 5), and a pair of TP 151392 tweezers is required to remove it. The left rear mounting screw may be loosened by using a TP 129848 (10-inch) screwdriver as shown in Fig. 7.

(6) Grasp the left rear frame and right front plate assembly and lift vertically.

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2.03 Base and Motor Unit Subassembly Removal:

- (1) Perform 2.01 and 2.02 (cover and typing unit removal).
- (2) Remove five mounting screws of motor unit subassembly, disconnect motor power leads, and lift motor unit from base.
- (3) Remove the two base retainer mounting screws and remove the two retainers (Fig. 8).
- (4) Disconnect J304 connector and ground strap (frame ground—Fig. 8). Disconnect ground strap at right side of base.
- (5) Grasp the right rear and left front of base and lift vertically.

2.04 Electrical Service Unit (ESU) Subassembly Removal:

- (1) Perform 2.01 (1) through (4) (cover removal).
- (2) Disconnect P302, P306, J304, J308, and ground strap (Fig. 3).
- (3) Open front panel by depressing catch while pulling panel slot forward (Fig. 1).
- (4) Grasp front panel by the sides and carefully lift front panel to disengage the hinge.
- (5) Open right pedestal door by depressing door catch (located in kneewell).
- (6) Disconnect P305 connector from the connector assembly mounted on the rear of the 804R3 attendant set (Fig. 9).
- (7) Withdraw cables through cable entry slot of TTY into kneewell area.
- (8) Remove four mounting screws securing ESU to TTY table (Fig. 1).
- (9) Remove the ESU.

2.05 Data Auxiliary Set 804R3 (Attendant Set) Removal:

- (1) Open the right pedestal door by depressing door catch (located in kneewell) (Fig. 1).
- (2) Remove the spring clip at the right rear of the attendant set mounting bracket by removing two mounting screws (Fig. 9).
- (3) Lift the left side of the faceplate and disengage the faceplate locking tab.
- (4) Remove the faceplate.
- (5) Disconnect the station controller and TTY plug and connector assemblies from the connector field on the rear of the attendant unit.
- (6) Remove two hex nuts and lockwashers from the weld screws on the angle bracket mounting assembly.
- (7) Lower the rear of the attendant set to disengage the locking tabs.
- (8) Remove the attendant set by sliding it to the rear.

2.06 Data Auxiliary Set 820B4 (Station Controller) Removal:

- (1) Open the right pedestal door by depressing the door catch (located in kneewell) (Fig. 1).
- (2) Loosen the captive screw on the 93A bracket (Fig. 9).
- (3) Slide the 93A bracket and mounted controller out of the pedestal.
- (4) Disconnect the M, N, and power plugs from the controller (Fig. 10).
- (5) Loosen the two screws on the controller terminal board (TS A) and remove the tip (T) and ring (R) spade lug wiring.
- (6) Remove the two screws and hex nuts that fasten the right side of the controller to the 93A bracket (Fig. 9).

- (7) Disengage the two plungers that secure the left side of the controller to the 93A bracket.
- (8) Grasp the controller and remove it from the 93A bracket.

3. REASSEMBLY OF 37 RO TTY DATA STATION

3.01 To reassemble the subassemblies covered in this section, reverse the disassembly procedure.

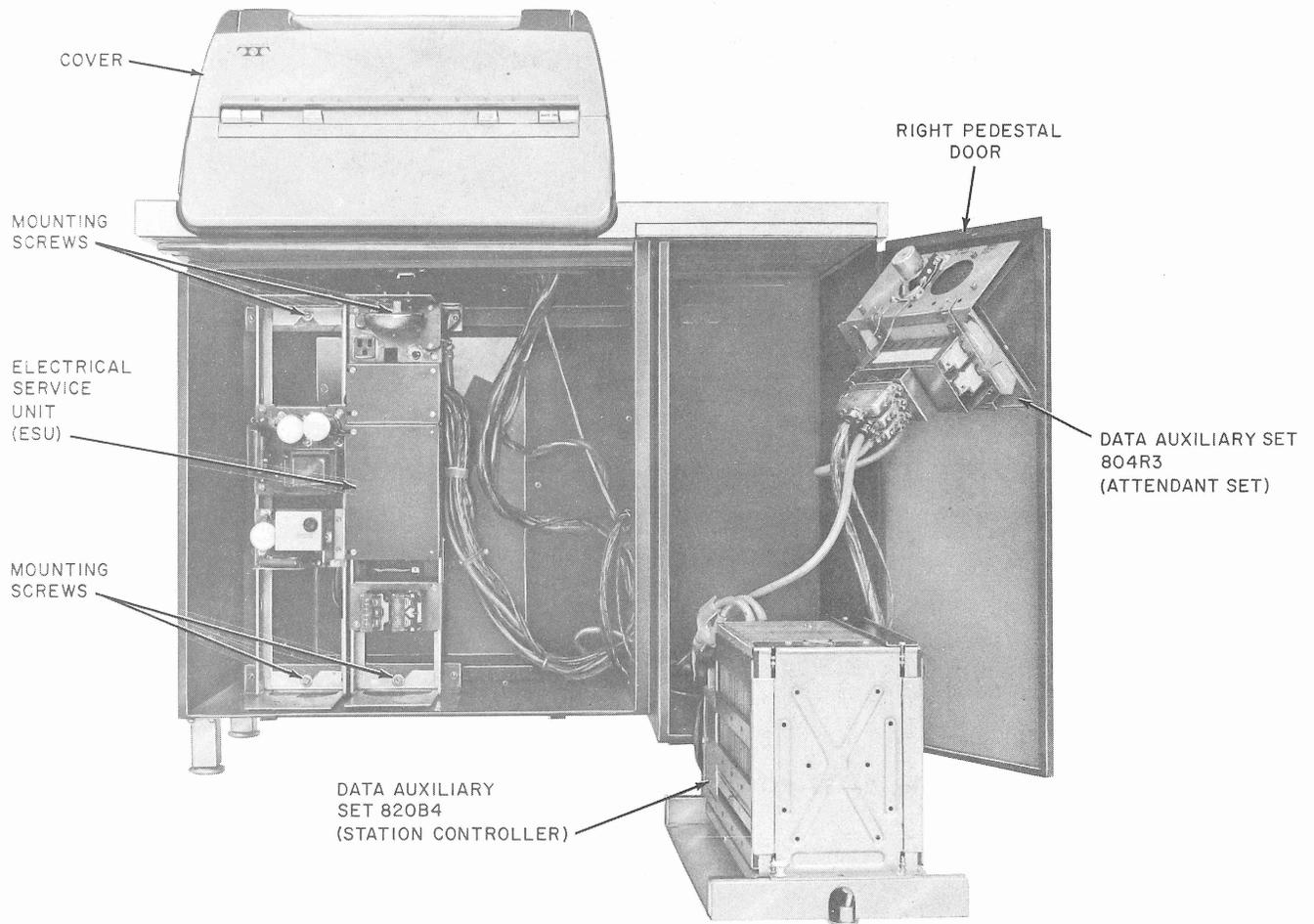


Fig. 1—37 RO Teletypewriter Data Station

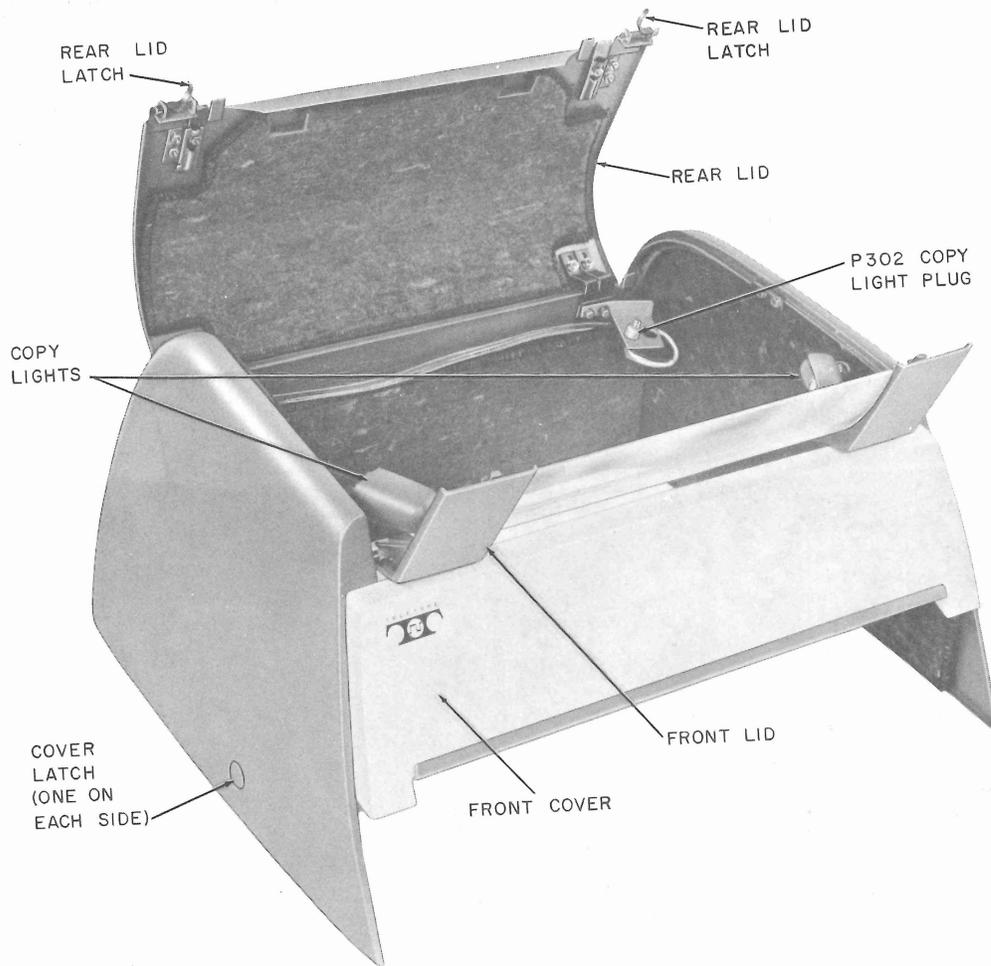


Fig. 2-37 RO Teletypewriter Cover, Lids Open

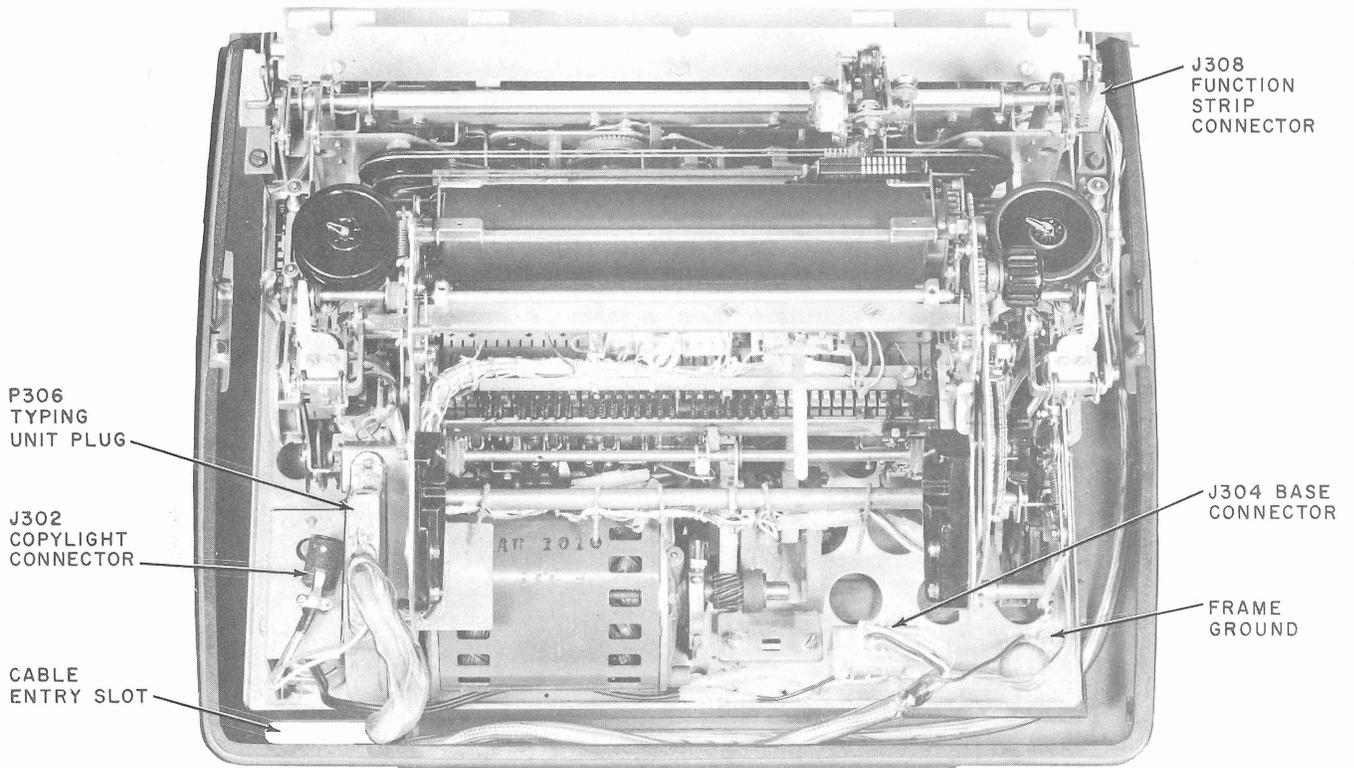


Fig. 3—Typing Unit

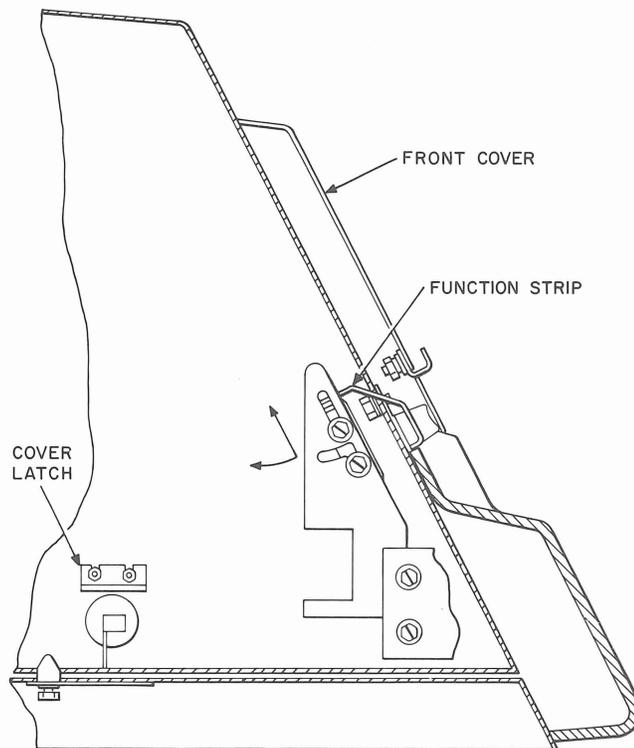


Fig. 4—Cover and Function Strip

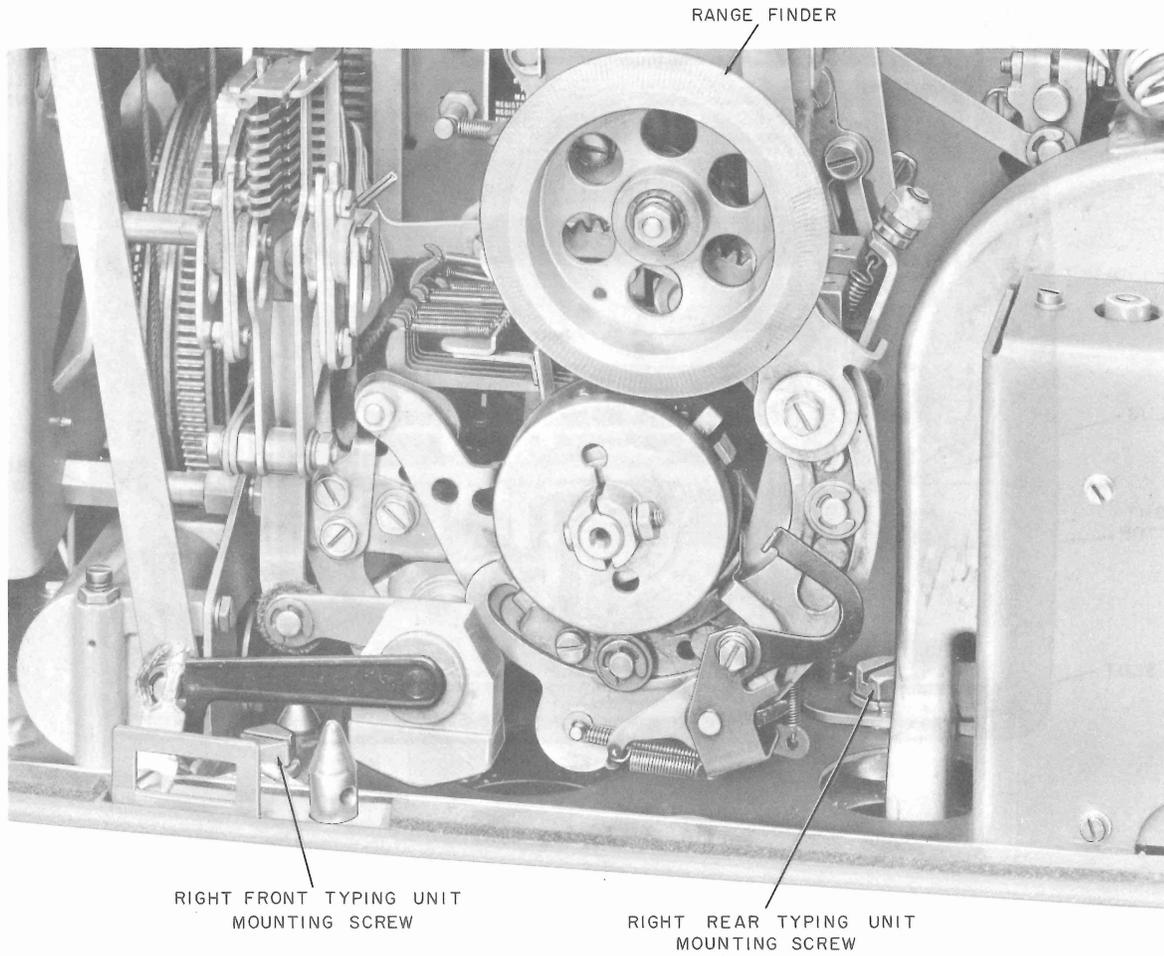
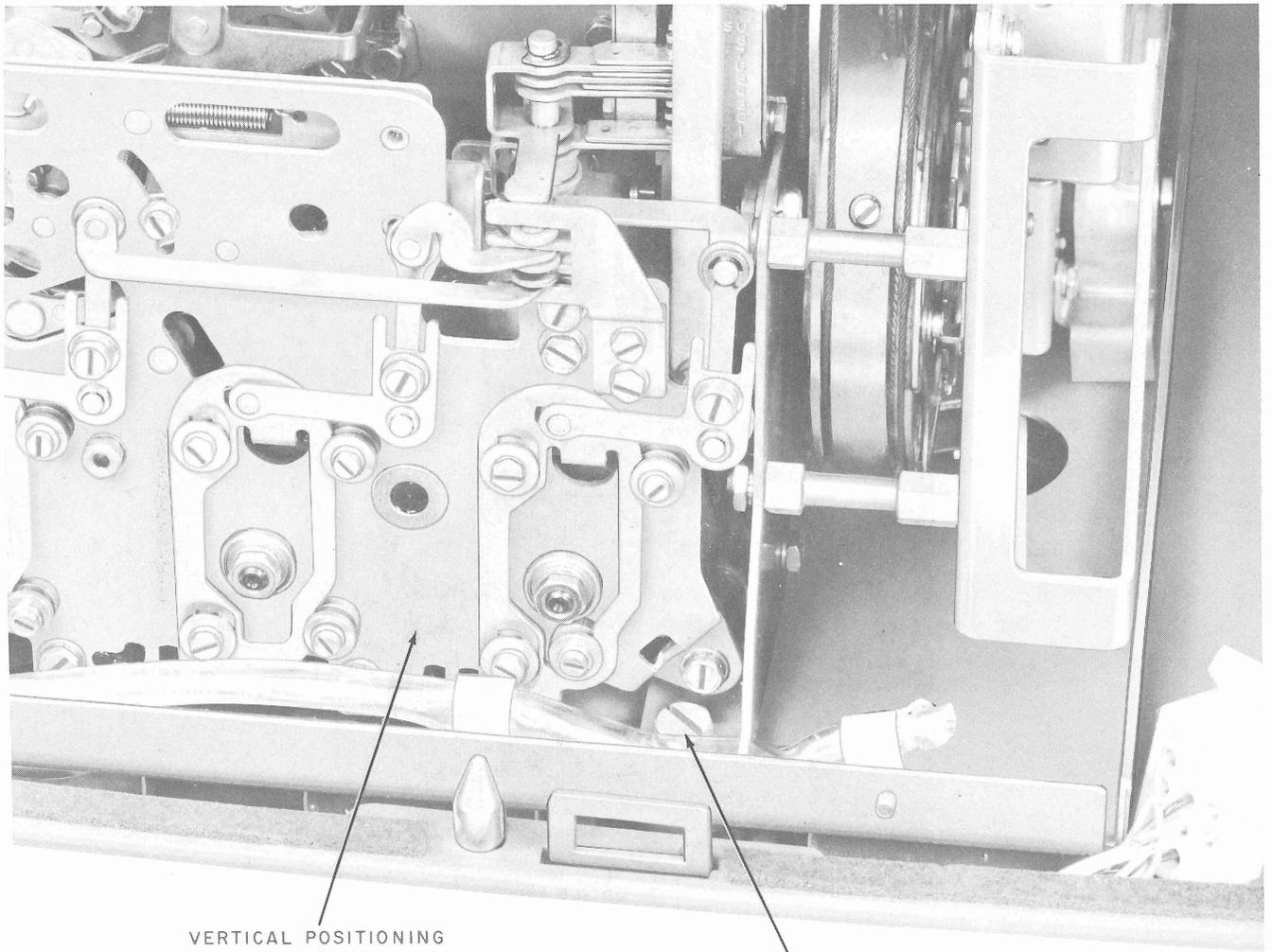


Fig. 5—37 Teletypewriter Typing Unit—Right Side



VERTICAL POSITIONING
MECHANISM

LEFT FRONT TYPING UNIT
MOUNTING SCREW

Fig. 6—37 Teletypewriter Typing Unit—Left Front Side

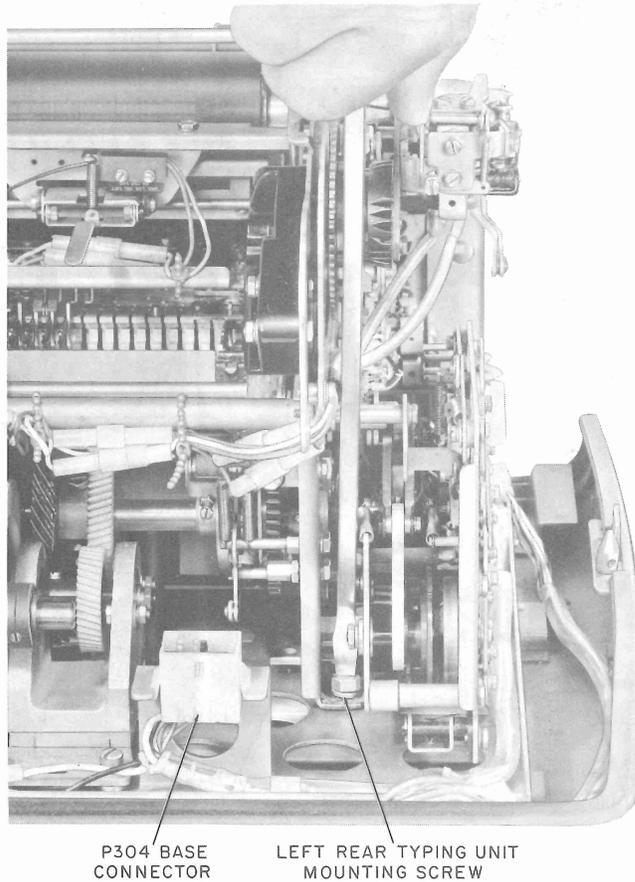


Fig. 7—37 Teletypewriter Typing Unit—Left Rear

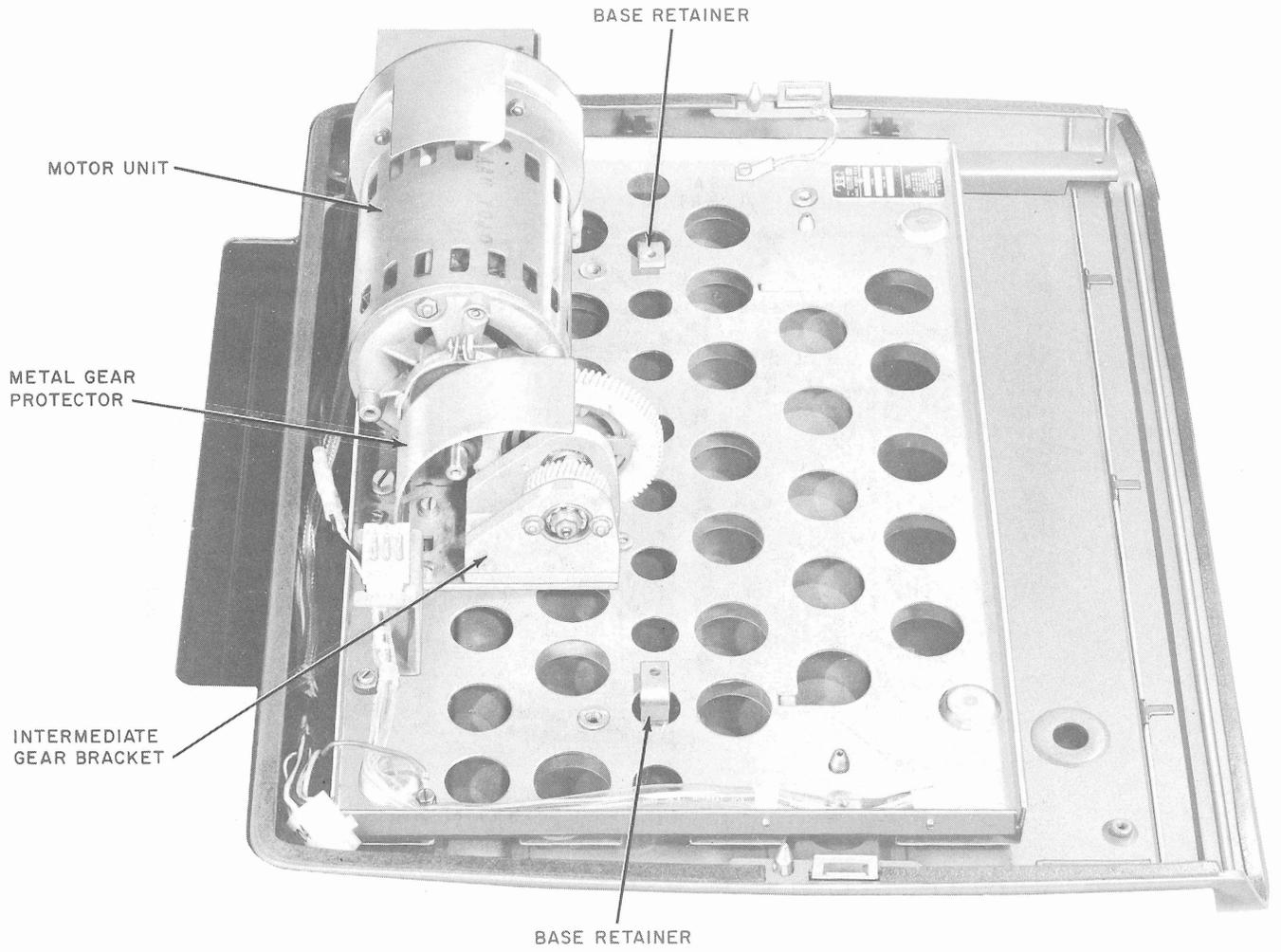


Fig. 8—37 Teletypewriter Base and Motor Unit

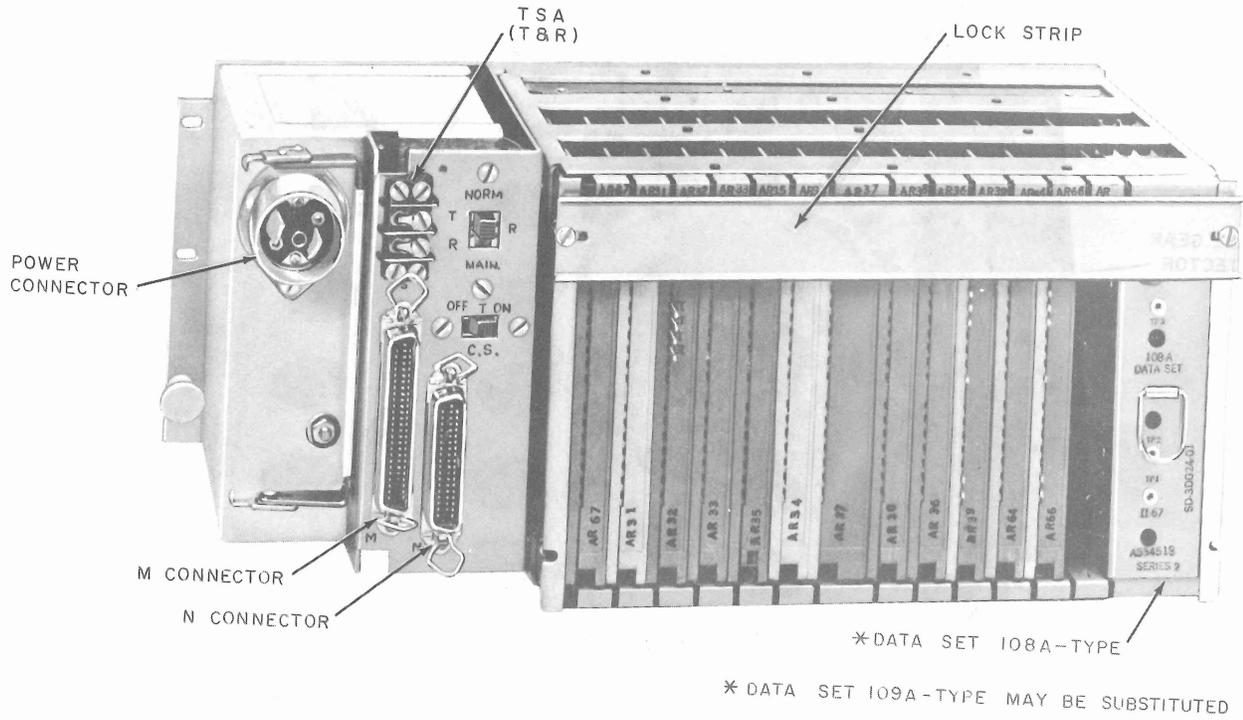


Fig. 9-37 RO TTY—Station Controller and Data Set

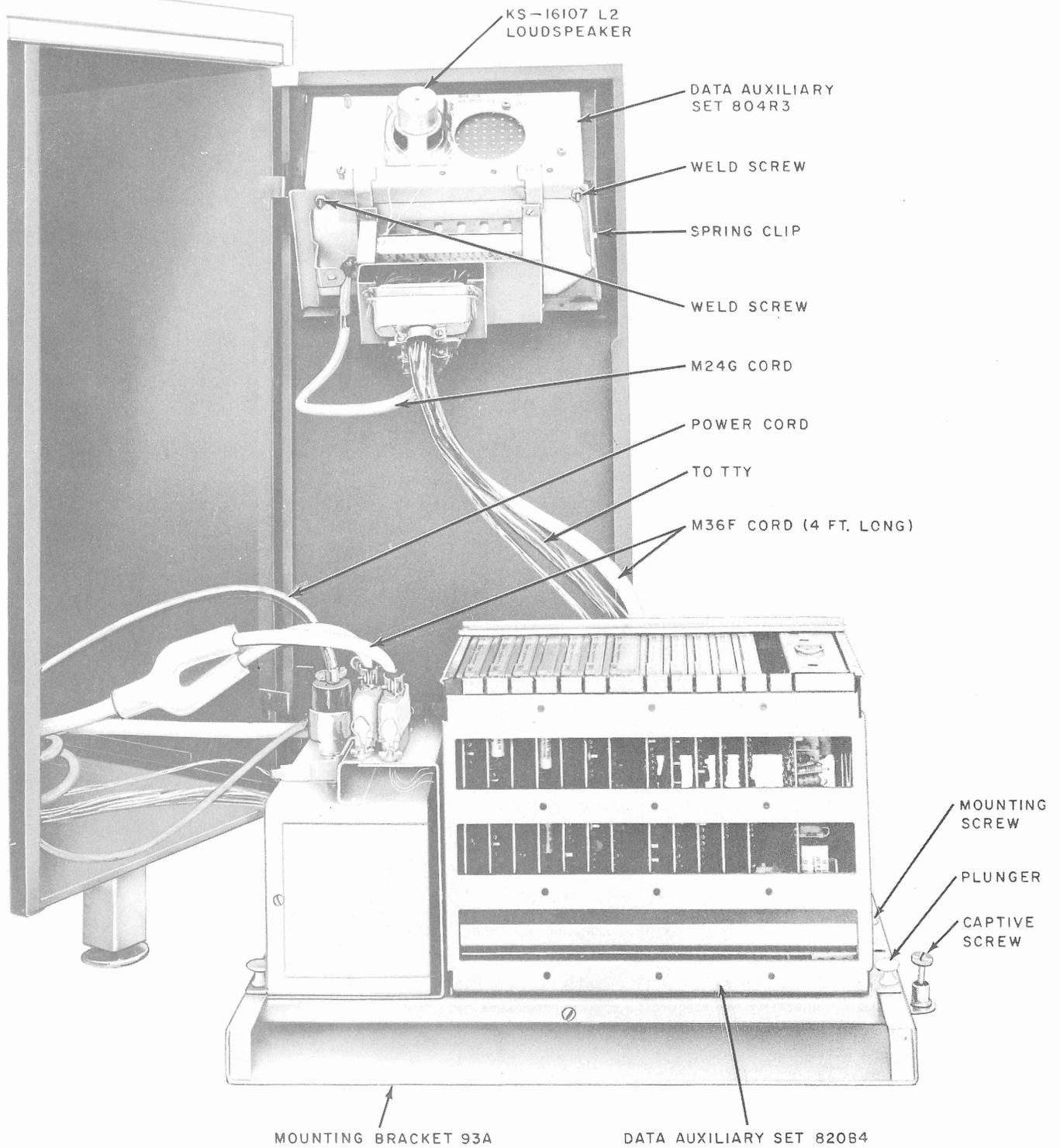


Fig. 10—820B4 Data Auxiliary Set