

35 EDGE PUNCHED CARD

TYPING REPERFORATOR SET BASE (2A BASE)

DISASSEMBLY AND REASSEMBLY

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1. GENERAL

1.01 This section contains instructions for the disassembly and reassembly of the basic mechanisms, subassemblies, and some parts mounted on the 35 Edge Punched Card Typing Reperforator Set Base (2A BASE — Figure 1). It is reissued to add engineering changes, replace the photographs with photographs of current design units, and rearrange the text. Since this is a general revision, marginal arrows used to indicate changes and additions are omitted.

1.02 The instructions for disassembly and reassembly of the set base are for both current and early design units, unless otherwise

stated. The information is arranged in a sequence that should be followed when complete disassembly of the base is required.

1.03 The disassembly procedure given in this section will break the base down into its major assemblies, subassemblies, and mechanisms. If further disassembly is required, refer to Section 574-244-800 which shows detailed arrangement of the parts.

Note: Retaining rings are made of spring steel and have a tendency to release suddenly during removal. To minimize the loss of these retainers, remove them as follows: With the retainer held to prevent rotation, place the blade of a suitable screwdriver into one of the slots of the retainer. Rotate the screwdriver in the direction that increases the diameter of the retainer and it will come off easily without springing away.

1.04 Following reassembly, perform necessary adjustments that may have been affected. Refer to Section 574-244-700 for base adjustments, and Section 574-206-700 for set adjustments.

1.05 During reassembly, care should be taken to keep cables and cords away from moving parts, to mount mechanisms so that moving parts are free to move, and to make sure that all parts are remounted or replaced by proper replacement parts.

2. DISASSEMBLY

POWER CORD ASSEMBLY

2.01 Remove the screw (TP181241) securing the green ground wire (from the power cord) to the subbase (right rear corner).

2.02 On early design units, remove the one screw (TP181242) and flat washer (TP7002) securing the power cord cable clamp (TP121245) and the signal line cord cable clamp (TP121244) to the subbase.

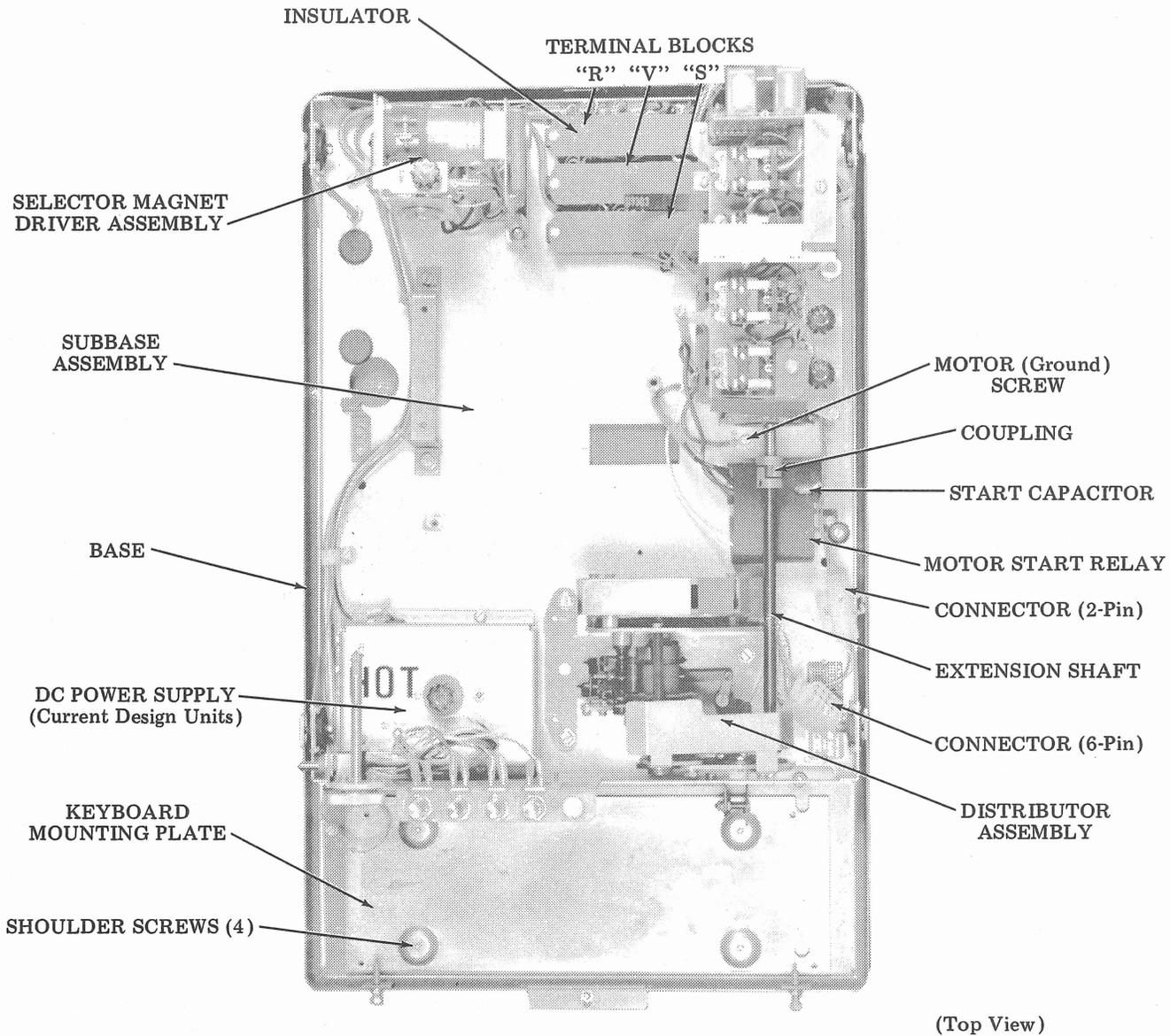


Figure 1 - 35 Edge Punched Card Typing Reperforator Set Base

2.03 On current design units, remove the one screw (TP181242) and flat washer (TP7002) securing the power cord cable clamp (TP129458) to the subbase.

2.04 Remove the two screws and lock-washers securing the insulator (TP151412) to the "R" terminal block (Figure 1) and remove the insulator.

2.05 Remove the two screws (TP111017) from the number 1 and 2 positions in the terminal block, securing the black and white wires. Remove the black and white wires from the

power cord only, and remove the power cord (TP182510). On early design units, the signal line cord can be removed by removing the two screws (TP111017) from positions 8 and 9 in the terminal block which secure the two wires of the signal line cord.

KEYBOARD MOUNTING PLATE

2.06 To remove the keyboard mounting plate (TP309280), remove the four shoulder screws (TP125178) underneath the base which mount the plate to the base (Figure 1). Remove the plate.

SELECTOR MAGNET DRIVER ASSEMBLY

2.07 The selector magnet driver assembly is located in the left rear corner of the base (Figures 1 and 3), and is secured to the subbase with two screws and lockwashers. To remove the selector magnet driver assembly, proceed as follows:

- (a) Remove the SMD circuit card (TP181821).
- (b) Disconnect the 9-pin connector from the plug on the selector magnet driver assembly.
- (c) Disconnect the two leads from the 1/2-amp fuse assembly. (Take note of the wire colors.)
- (d) Remove the two selector magnet driver assembly mounting screws (TP151630) and lockwashers (TP2191).
- (e) Carefully lift the assembly straight up, clearing the cable assembly. Place the selector magnet driver assembly on a flat surface.

2.08 If further disassembly of the selector magnet driver assembly is required, refer to Section 574-244-800.

DISTRIBUTOR ASSEMBLY

2.09 The distributor assembly is secured to the subbase with four screws, lockwashers, and flat washers. To remove the distributor assembly, proceed as follows:

- (a) Remove the 6-pin connector (TP182649) from the 6-pin receptacle on early design units, or the 2-pin connector (TP312813) from the 2-pin receptacle (TP312814) on current design units (part of the distributor cable — Figures 1 and 2).
- (b) Remove the retaining ring (TP119649) securing the drive link (TP309293) to the lever with stud (TP180978). Remove the drive link from the stud.
- (c) Loosen the setscrew securing the drive shaft (TP309307) to the coupling (TP309302 — Figure 1).
- (d) Remove the four screws (TP151723), lockwashers (TP2669), and flat washers (TP3438) mounting the distributor assembly

to the subbase. Remove the assembly and place it on a flat surface.

2.10 If further disassembly of the distributor assembly is required, refer to Section 574-244-800.

MAIN CABLE ASSEMBLY (EARLY DESIGN)

2.11 To remove the main cable assembly (TP309322), remove the screws with lockwashers (TP181242) mounting the insulators (TP151412) on the "R," "V," and "S" terminal blocks (TP151411).

2.12 Remove all terminal screws (TP111017) connecting the main cable (TP309322), rectifier (TP305335), resistor (TP181717), and network (TP178535) to the three terminal blocks designated "R," "V," and "S."

2.13 Disconnect the orange lead (TP192007) of cable (TP309322) from yellow lead of motor (TP181870).

2.14 Disconnect the white lead (TP192007) of cable (TP309322) from terminal no. 4 of motor start relay (TP181877).

2.15 Remove EJECT and BACKSPACE pushbutton switches (TP160369) by removing the hex nut (TP114478) and then removing the switches from the bracket (TP309315).

2.16 Remove the PRINT pushbutton switch (TP160370) by removing the hex nut (TP114478), and then removing the switch from the bracket (TP309315).

2.17 Remove the toggle switch (TP107393) by removing the hex nut (TP91683) and the ON-OFF plate (TP120175), then the switch from the bracket (TP309315).

2.18 Remove the cable clamp (TP121245) and the cable ties at support post (TP309324), and two places on the relay mounting post (TP309288).

2.19 Remove the three relay cover mounting screws (TP151630), lockwashers (TP2191), and flat washers (TP7002). Remove the relay cover (TP309361).

2.20 Remove the three relay cover mounting posts (TP144631) and lockwashers (TP2191).

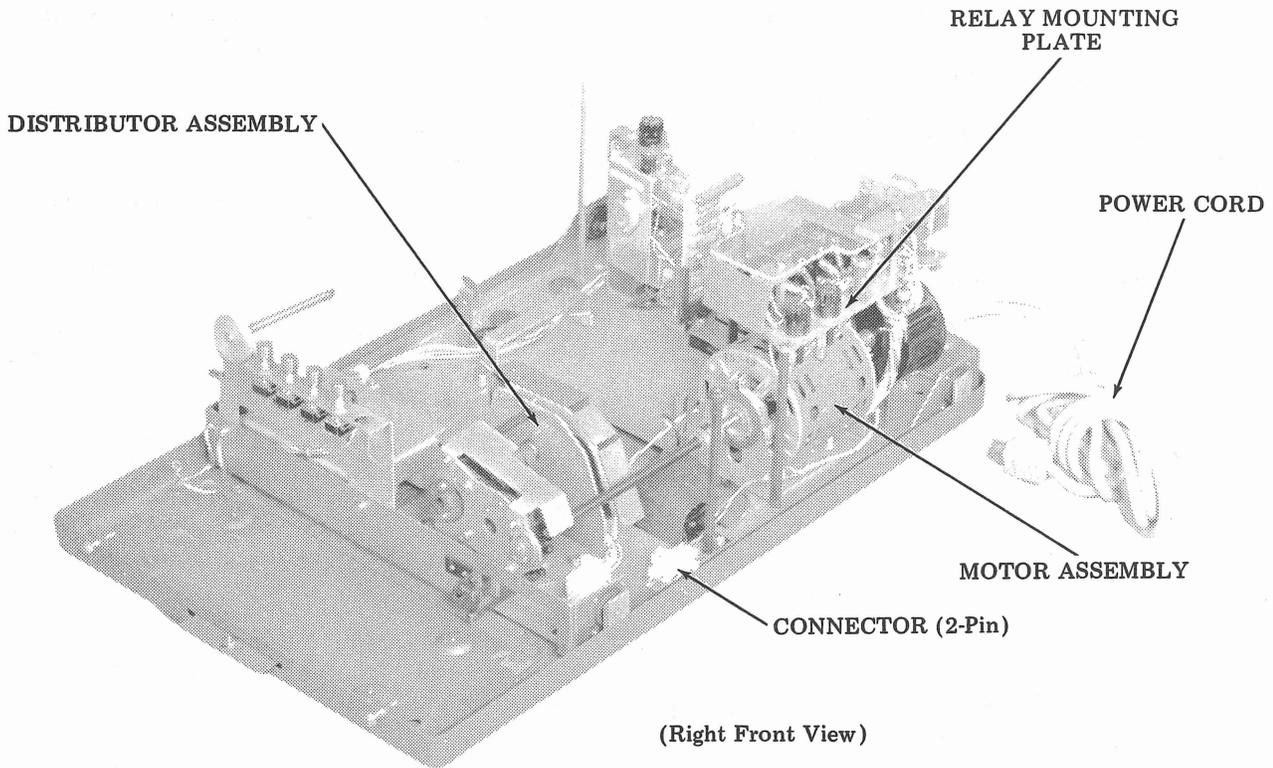


Figure 2 - 35 Edge Punched Card Typing Reperforator Set Base

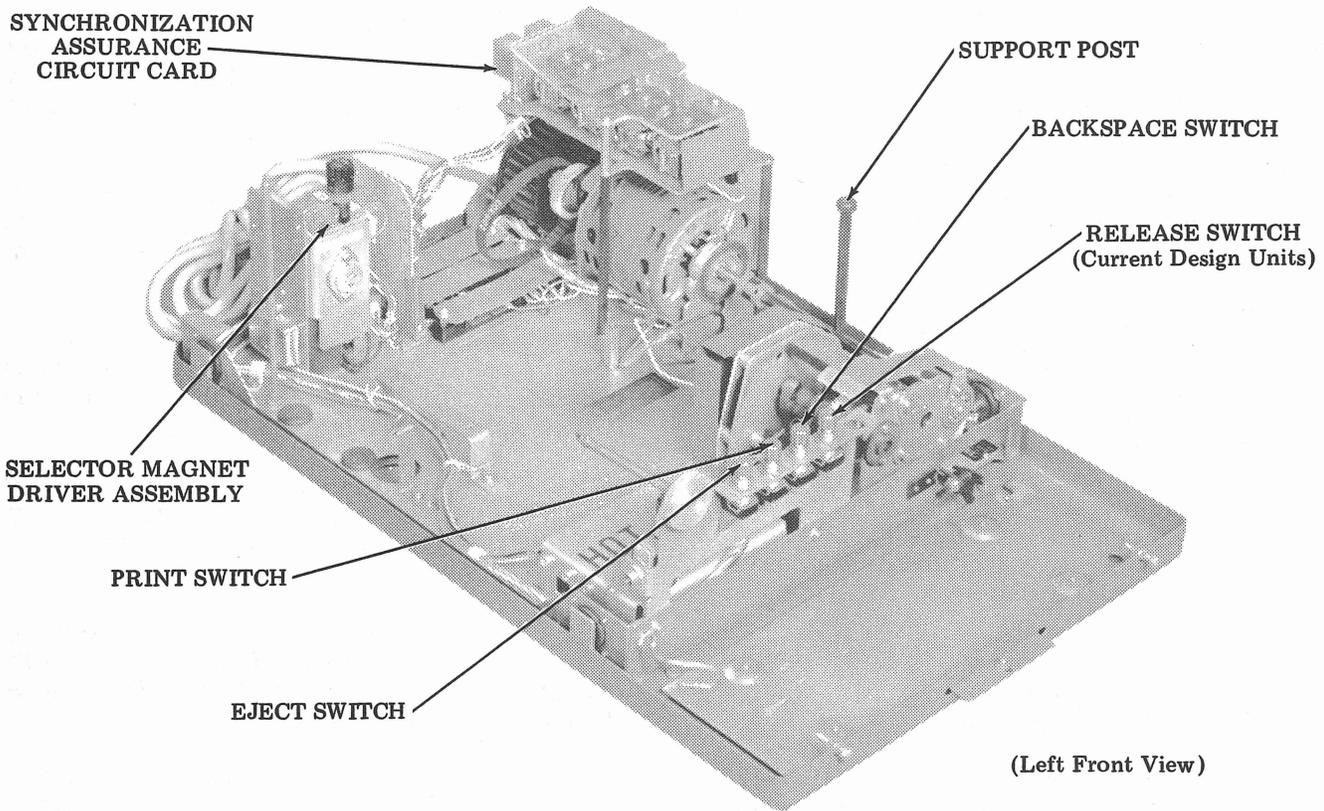


Figure 3 - 35 Edge Punched Card Typing Reperforator Set Base

2.21 Remove the one remaining relay mounting plate mounting screw (TP151630), lockwasher (TP2191), and flat washer (TP7002) which mounts the relay mounting plate to the relay mounting post (TP309288). Then remove the relay mounting plate (TP309308) with fuse holders and cable (TP309322).

MAIN CABLE ASSEMBLY (CURRENT DESIGN)

2.22 To remove the main cable assembly (TP332969), remove the screws with lockwashers (TP181242) mounting the insulators (TP151412) on the "R," "V," and "S" terminal blocks (TP151411).

2.23 Remove all terminal screws (TP111017) connecting the main cable (TP332969), subbase connector (TP145913), rectifier assembly (TP332970), and the motor assembly (TP181870) to the terminal blocks ("R," "V," and "S").

2.24 Disconnect the orange lead of the main cable from the yellow lead of the motor.

2.25 Disconnect the white lead of the main cable from the no. 4 terminal of the relay (TP181877).

2.26 Remove the screws securing the gauge (TP309356) and clear plastic insulator (TP309361) at the right rear of the unit. Remove the gauge and insulator.

2.27 Remove the synchronization assurance circuit card (TP333245) from its connector (TP182536 - Figure 3).

2.28 Remove the single screw and two posts (TP144631) securing the relay mounting plate (TP309308) with relays and fuse holders.

2.29 Remove the screws securing the "T" connector (TP145913) to the connector mounting bracket, and remove the connector.

2.30 Remove the screws securing the rectifier assembly (TP332970) and its cable clamp. Remove the rectifier assembly and its cable.

2.31 Remove the hex nuts securing the three pushbutton switches (TP160369) and the one switch (TP160370) to the bracket (TP309315). Remove the switches and replace the hex nuts onto the switch shanks to avoid loss of the hex nuts.

2.32 Remove the hex nut securing the LOCAL, OFF, ON LINE toggle switch (TP155022) to the bracket (TP309315). Remove the switch and replace the hex nut onto the switch shank to avoid loss of the hex nut.

2.33 Remove the twine securing the main cable to the post (TP309324). Retain the twine for reassembly.

2.34 Remove the twine securing the main cable to the post (TP309288) in two places. Retain the twine for reassembly.

2.35 Remove the main cable assembly (TP332969) and relay mounting plate assembly.

MOTOR ASSEMBLY

2.36 The motor assembly (TP181870) with fan and gears is secured to the motor mounting bracket (TP195802), which in turn is mounted to the subbase with four screws, lockwashers, and flat washers (Figure 4). To remove the motor assembly, proceed as follows:

(a) Loosen the screw (TP181242) securing the relay with bracket (TP181877) to the subbase. Remove the insulator (TP181386).

(b) Disconnect the one capacitor black wire from the red wire of the motor.

(c) Disconnect the blue wire of the motor from the relay.

(d) Remove the screw and lockwasher securing the green wire (ground) of the motor to the subbase.

(e) Remove the four screws (TP151723), lockwashers (TP2669), and flat washers (TP3438) securing the motor bracket (TP195802) to the subbase. Remove the motor with fan, bracket, gears, and coupling.

2.37 If further disassembly of the motor assembly is required, refer to Section 574-244-800.

(Right Side View)

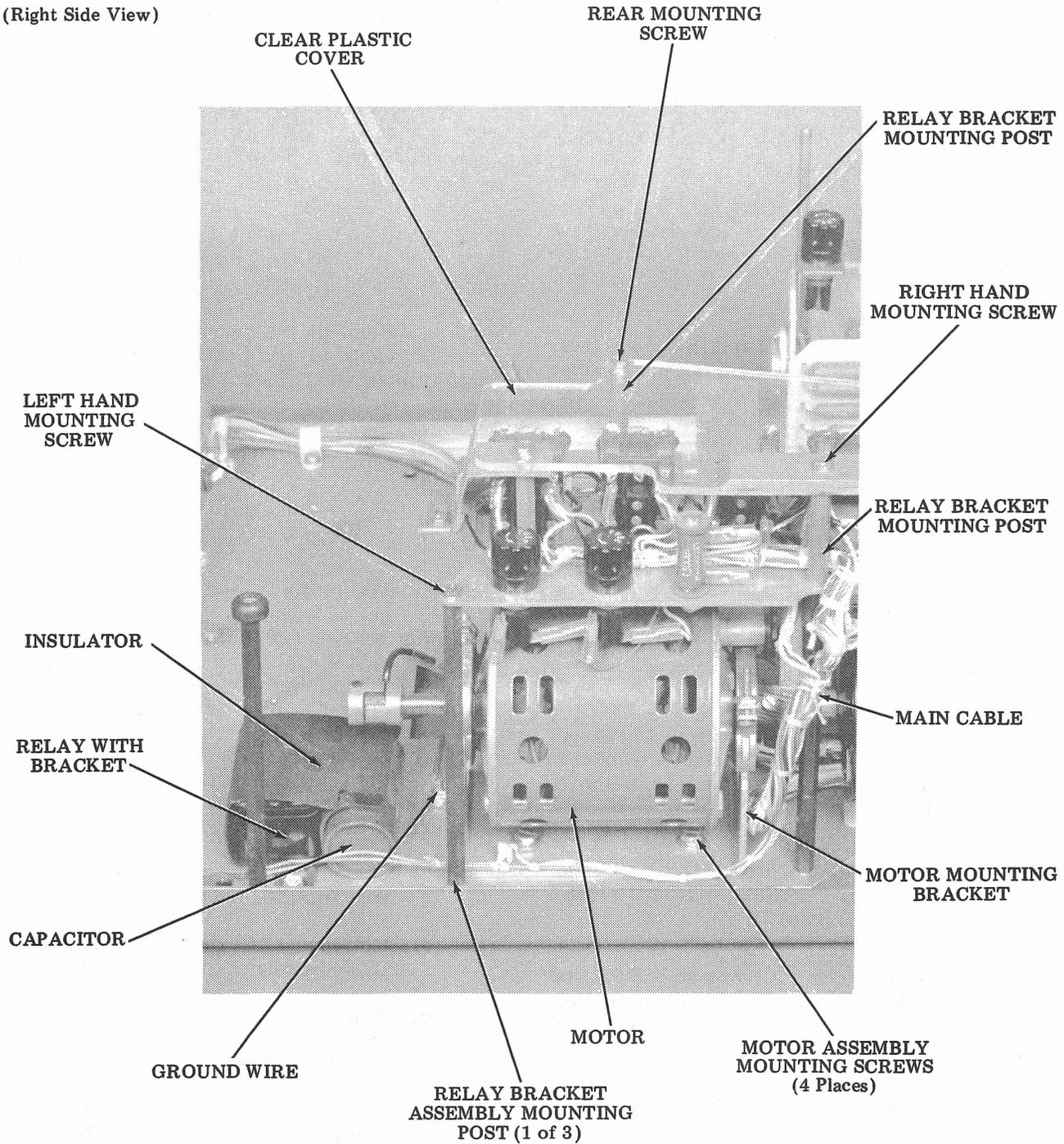


Figure 4 - Motor and Relay Bracket Assemblies

3. REASSEMBLY

GENERAL

3.01 The procedures for reassembly are the reverse used for disassembly. When reassembling mechanisms, however, care should be taken to keep cables and cords away from moving parts. Also, make sure mechanisms are free to move, and will not interfere with other mechanisms.

3.02 When remounting the main cable assembly (current or early design units), follow actual wiring diagram 6999WD. Also, be sure to retie the cable at points where the cable ties were previously removed.

3.03 When reassembly is completed, related adjustments should be checked. Refer to Sections 574-206-700 and 574-244-700.

MOTOR ASSEMBLY

3.04 When replacing the motor assembly, difficulty may be encountered. If difficulty is encountered, proceed as follows:

(a) As viewed from the side with the coupling to the left and the fan to the right, remove the screw (TP151721), nut (TP158881), long motor mounting strap (TP130486), and short motor mounting strap (TP130487) securing the right side of the motor assembly to the motor bracket (TP195802).

(b) Remove the screw (TP151721), nut (TP158881), and two mounting straps (TP151620) securing the left side of the motor assembly to the motor bracket (TP195802).

(c) Remove the motor assembly from the mounting bracket.

(d) Mount the motor mounting bracket (TP195802) to the subbase, as shown in Figure 5, using four screws (TP151723), lockwashers (TP2669), and flat washers (TP3438).

(e) Replace the motor assembly on the mounting bracket with the fan to the rear of the unit, and the gear mounting stud up (Figure 5).

(f) Replace the motor mounting straps (previously removed) in their respective positions.

(g) Check related adjustments (Section 574-206-700), and bind free operation before applying power.

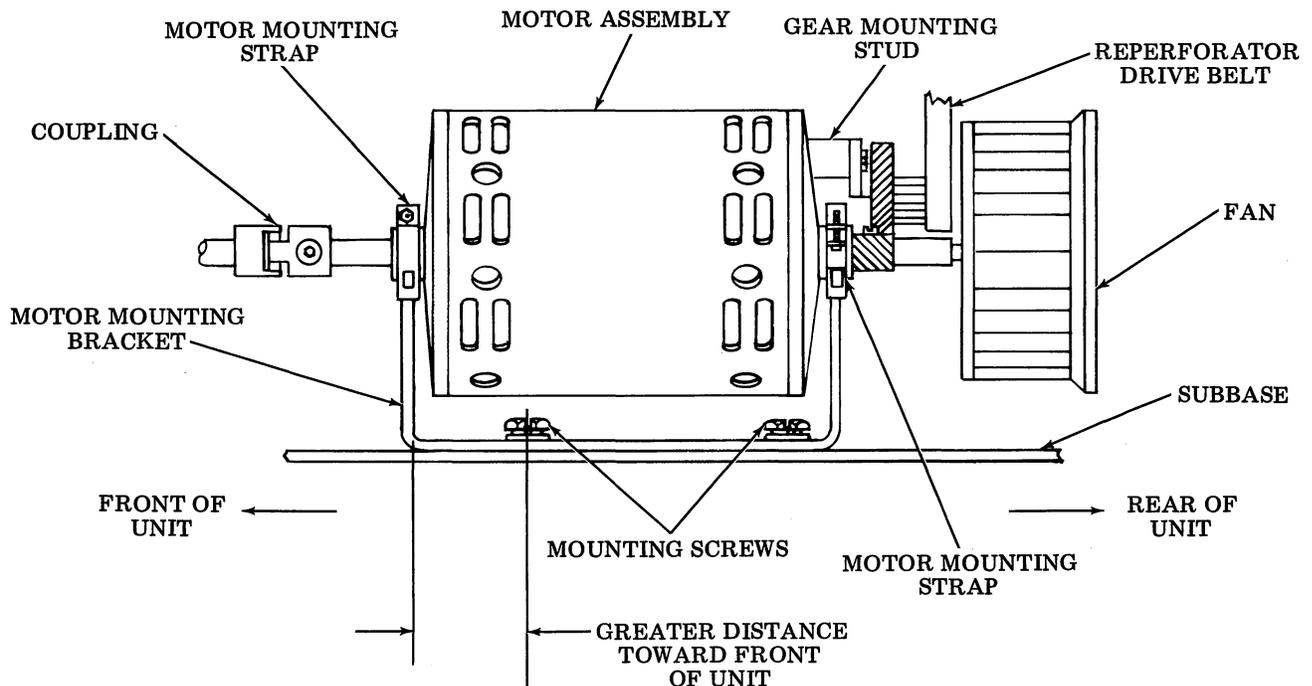


Figure 5 - Motor Assembly Replacement