

37 TYPING REPERFORATOR  
DISASSEMBLY AND REASSEMBLY

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1. GENERAL

1.01 This section provides the disassembly and reassembly procedures for the major components of the 37 typing reperforator (Figures 1 and 2). It is revised to include recent engineering changes, additions, and to rearrange the text. Since this is an extensive revision, marginal arrows ordinarily used to indicate changes have been omitted.

**CAUTION: REMOVE ALL POWER FROM SET OR UNIT BEFORE REMOVING ANY COMPONENTS.**

1.02 Photographs are used to identify the mechanisms and specific parts mentioned in the procedures. Refer to the appropriate parts section for drawings showing the location of all parts and mechanisms.

1.03 Refer to maintenance tools Section 570-005-800 for information on tools necessary to perform the disassembly and reassembly procedures.

1.04 Use maintenance pad TP124828 to protect furniture and floor coverings from oil, grease, and dirt, during the disassembly and reassembly of the typing reperforator.

1.05 Most maintenance, lubrication, and adjustments can be accomplished simply by removing the subject component from the cabinet. If possible, disassembly should be confined to subassemblies, which can, in some cases, be removed without disturbing adjustments. When reassembling the subassemblies, be sure to check all associated adjustments, clearances, and spring tensions.

1.06 References in the procedures to left or right, front or rear, etc, refer to the unit in a normal operating position with the punch block toward the front and the selector mechanism on the right.

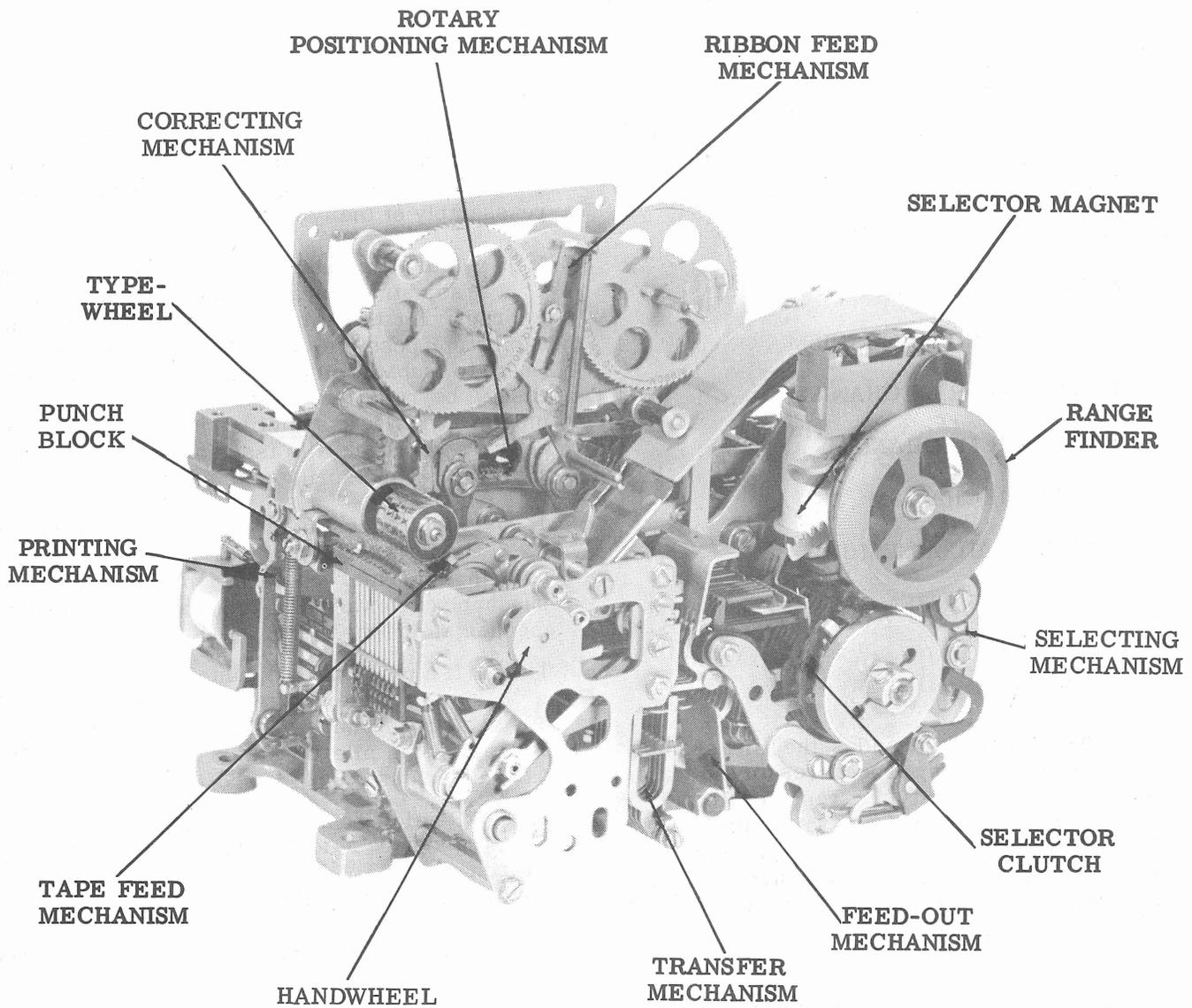
1.07 If a part that is mounted on shims is removed, the number of shims used at each of its mounting screws should be noted so that the same shim pile-up can be replaced when the part is remounted.

1.08 Retaining rings are made of spring steel and have a tendency to release suddenly on removal. To minimize loss of these retainers use the following removal procedures:

- (1) Hold the retainer in one hand to prevent it from rotating.
- (2) Place the blade of the screwdriver in one of the slots of the retainer.
- (3) Rotate the screwdriver in a direction to increase the diameter of the retainer, allowing easy removal of the retainer.

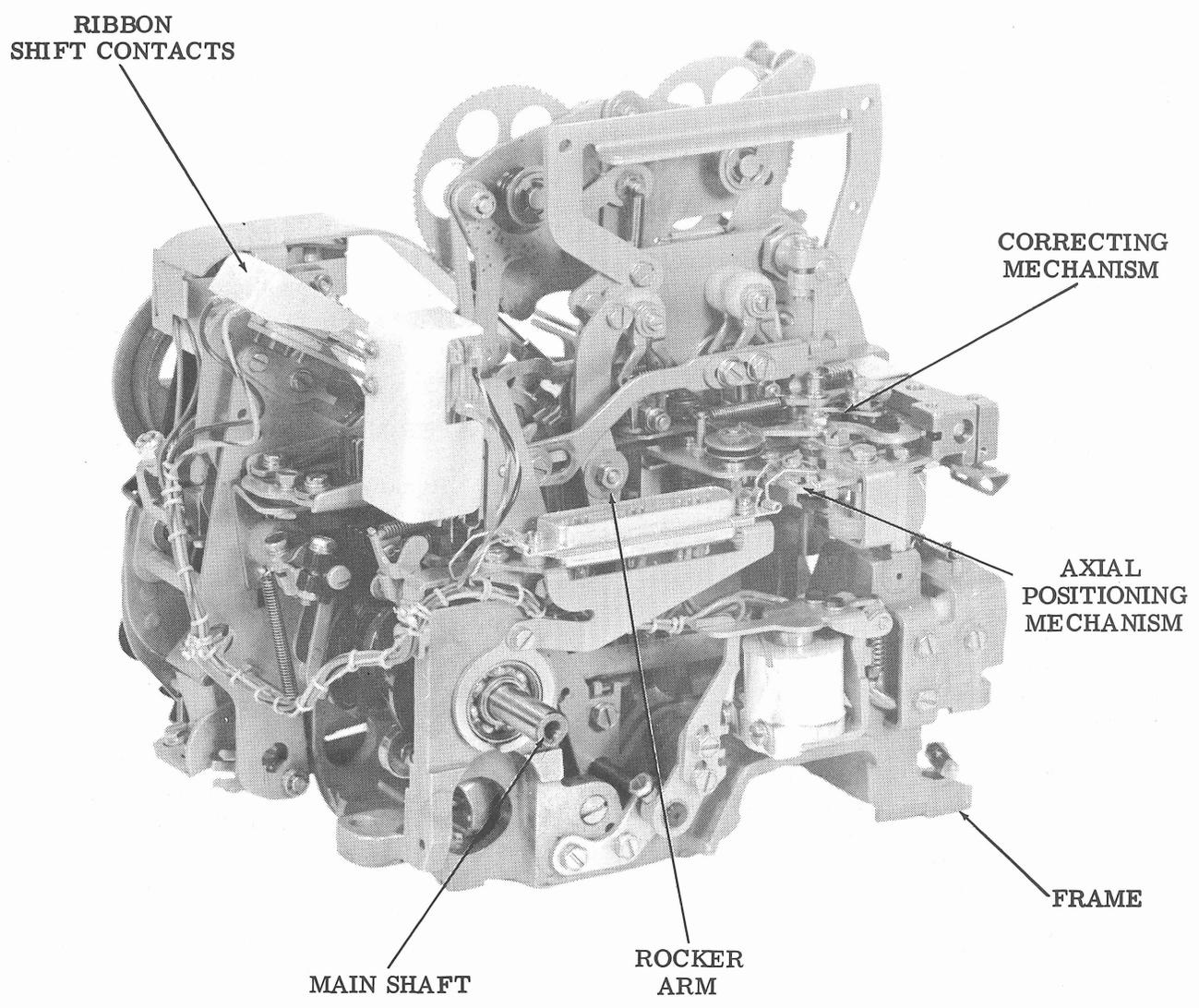
1.09 Avoid the loss of springs in disassembly by holding one spring loop with one hand while gently removing the opposite loop with a spring hook. Do not stretch or distort springs.

1.10 All damaged, worn, or distorted parts should be replaced if encountered in the disassembly and reassembly procedures.



(Right Front View)

Figure 1 - 37 Typing Reperforator



(Left Rear View)

Figure 2 - 37 Typing Reperforator

## SECTION 574-330-702

1.11 Refer to Section 574-330-701 for typing reperforator lubrication information before placing the unit back in service. Make a visual inspection of the unit for general lubrication requirements. Check oil locations on felt washers, oil cups, and in locations where parts rub or move with respect to each other. Apply grease to gears, rollers, points of heavy pressure, and on some ball bearings.

### 2. DISASSEMBLY AND REASSEMBLY

2.01 In 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.

2.02 Unplug the connecting cable at the rear of the unit. Remove the typing reperforator from its base according to the instructions in the appropriate section covering removal and replacement of components.

### SELECTOR MECHANISM

2.03 Remove the screw, nut, and lockwasher that secure the TP150001 selector clutch drum to the main shaft. Place the TP306118 push lever reset bail in its raised position.

2.04 Push the TP312924 mark locklever to the front and place a pin in the hole provided on the lever extension so that the lever is held away from the cam by the TP306115 mark locklever guide bracket.

2.05 Hold the TP312974 space locklever and the TP306127 start lever to the front and slip the TP306300 cam sleeve assembly off the shaft while rotating it in a counterclockwise direction.

Note: To replace the cam sleeve reverse the above steps, but still rotate cam in a counterclockwise direction. When the sleeve is almost fully in place, pull the trip lever and selector clutch latchlever away from their respective cams to facilitate replacement.

2.06 Unhook the spring on the TP150355 function clutch latchlever. Remove the TP156472 spring post by removing its locknut and lockwasher. Remove the TP151657 selector backplate screw. Remove the TP153538 screw and its associated washer that mounts the front leg of the tape platform. The selector mechanism can now be taken off.

### RIBBON FEED MECHANISM

2.07 Remove the ribbon. Remove the two mounting screws that mount the ribbon feed mechanism plate. Remove the ribbon feed mechanism.

### PERFORATOR MECHANISM

2.08 Remove the spring from the TP192709 perforator drive link and the TP170211 rocker arm.

2.09 Remove the TP76422 trip lever spring. Remove the two TP151442 mounting screws and one TP1248 flat head screw that fasten the TP324314 rear plate to the main plate. Remove the perforator mechanism, being careful not to lose any of the spacers.

### TRANSFER MECHANISM

2.10 Remove the TP151631 and TP151632 mounting screws (with lockwashers and flat washers) from the TP192820 transfer mounting bracket. Remove the transfer mechanism.

### TYPING MECHANISM

2.11 Remove the TP324236 pushbar operating blade from the TP195235 rocker bail by removing its two screws, lockwashers, shims, and flat washers. Remove the TP159512 print hammer trip link after removing its TP119651 retaining ring and TP110879 spring.

2.12 Remove the TP154638 accelerator spring from the print hammer accelerator. Remove the TP159536 rotary rack idle gear, its eccentric shaft, mounting screw and lockwasher.

2.13 Remove the screw, lockwasher and flat washer that hold the TP324277 bellcrank pivot shaft to the main plate. Remove the screw and lockwasher that mount the TP159525 axial plate to the TP159404 post on the frame.

2.14 Remove the TP180927 retaining ring from the TP324248 idler gear eccentric shaft. Remove the eccentric shaft and TP159536 idler gear by removing the TP78103 mounting screw and lockwasher. Remove the three TP151631 screws, with lockwashers and flat washers, that secure the TP324330 front plate to the frame. Remove the typing mechanism from the frame.

2.15 To remove the axial plate assembly from the typing mechanism, remove the TP3870 spring and the TP324284 spring from the TP304542 corrector drive link extension. Remove the retaining ring from the post on the TP324261 corrector plate, and remove the TP156413 corrector drive link.

2.16 Remove the three mounting screws and lockwashers from the TP159525 axial plate. Remove the axial plate assembly.

2.17 To remount the axial plate assembly, reverse the procedure used to remove it. The leftmost tooth on the TP324250 type wheel shaft must mesh with the leftmost tooth space in the TP324254 axial sector. There is an extra tooth space on the rightmost portion of the shaft rack.

2.18 After the axial plate assembly has been removed, the remainder of the typing mechanism is the front plate assembly.

#### ROCKER BAIL ASSEMBLY

2.19 Disconnect the TP156937 printing drive link by removing the retaining ring at its front end. Remove the TP3598 nut, lockwasher,

flat washer, felt washer, bushing, flat washer, and TP151632 screw from the TP156871 operating blade mounting bail.

2.20 Remove the nut, lockwasher, and TP334854 adjusting lever guide, then remove the TP156366 rocker bail shaft. The TP162350 rocker bail can now be removed.

#### MAIN SHAFT ASSEMBLY

2.21 Remove the spring from the TP150355 function clutch latchlever. Remove the retaining ring, spring washer, and flat washers from the right end of the TP324235 main shaft.

2.22 Remove the screw and lockwasher from the TP150000 function clutch drum. Remove the screw and lockwasher from the TP173340 collar or the TP324326 cam, whichever is present on the left end of the main shaft. Remove the screw and lockwasher from the TP158745 bearing clamp.

2.23 Pull the main shaft out of the left side of the unit, sliding it out of the clutch and cam assemblies.