

37 NONTYPING REPERFORATOR UNIT
DISASSEMBLY AND REASSEMBLY

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1. GENERAL

1.01 This section provides disassembly and reassembly instructions for the 37 nontyping reperforator unit (Figure 1). It is reissued to incorporate engineering changes and comments received on Issue 1. Since only a limited distribution was made on Issue 1, marginal arrows have been omitted.

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 Section 570-005-800TC, Maintenance Tools, for information on the tools necessary to perform the disassembly and reassembly procedures.

1.04 References in the procedures to left or right, up or down, top or bottom, etc refer to the unit viewed in a normal operating position with the selector mechanism on the right and the function mechanism on the left.

CAUTION: REMOVE POWER BEFORE DISASSEMBLING THE UNIT.

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 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.

1.07 Retaining rings are made of spring steel and have a tendency to release suddenly when being removed. Loss of these retainers can be minimized as follows: Hold the retainer with the left hand to prevent it from rotating. Place the blade of a suitable screwdriver in one of the slots of the retainer. Rotate the screwdriver in a direction to increase the diameter of the retainer for removal.

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

2. DISASSEMBLY AND REASSEMBLY
BACKSPACE MECHANISM

2.01 To remove the backspace mechanism, proceed as follows (Figure 2):

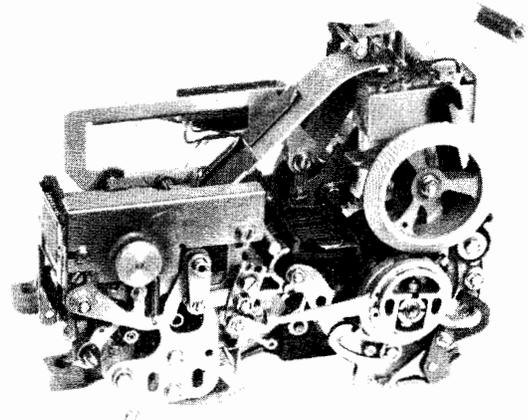


Figure 1 - 37 Nontyping Reperforator Unit

SECTION 574-329-702TC

- (1) Unhook the TP84575 spring from the TP159958 drive link latch.
- (2) Loosen the TP151632 screw on the TP159960 eccentric and pull the TP159961 eccentric arm off the TP159963 hub.
- (3) Disengage the eccentric arm from its guide between the TP159958 latch and TP159955 drive link.
- (4) Remove the post from between the TP159954 adjusting link and the front punch frame. Then remove the link and latch assembly.
- (5) Remove the two TP156632 screws on the front of the punch frame and remove the magnet assembly.

2.02 To assemble the backspace mechanism, reverse the removal procedure.

SELECTOR MECHANISM

2.03 To remove the selector mechanism, proceed as follows (Figure 2):

- (1) Remove the selector clutch drum mounting nut, screw and washers. Remove the clutch drum.
- (2) Remove the selector clutch and cam sleeve assembly as follows:
 - (a) Latch the pushlever reset bail up and out of the notch in the lever guide slot.
 - (b) Push the mark lever to the left side and insert a pin in the hole provided on the lever extension so that the lever (and selecting levers) is held away from the cam by the marking locklever guide bracket.
 - (c) Hold the spacing locklever and start lever to the left side and slip the cam sleeve assembly off the shaft by rotating it in a counterclockwise direction.

- (3) Remove the function clutch latchlever spring, spring post, nut, and washer.
- (4) Remove the selector backplate screw and washer (rear of plate, inserted through the casting).
- (5) Remove the oil wick, wick holder screw and washer, and wick holder.
- (6) Remove the selector mechanism.

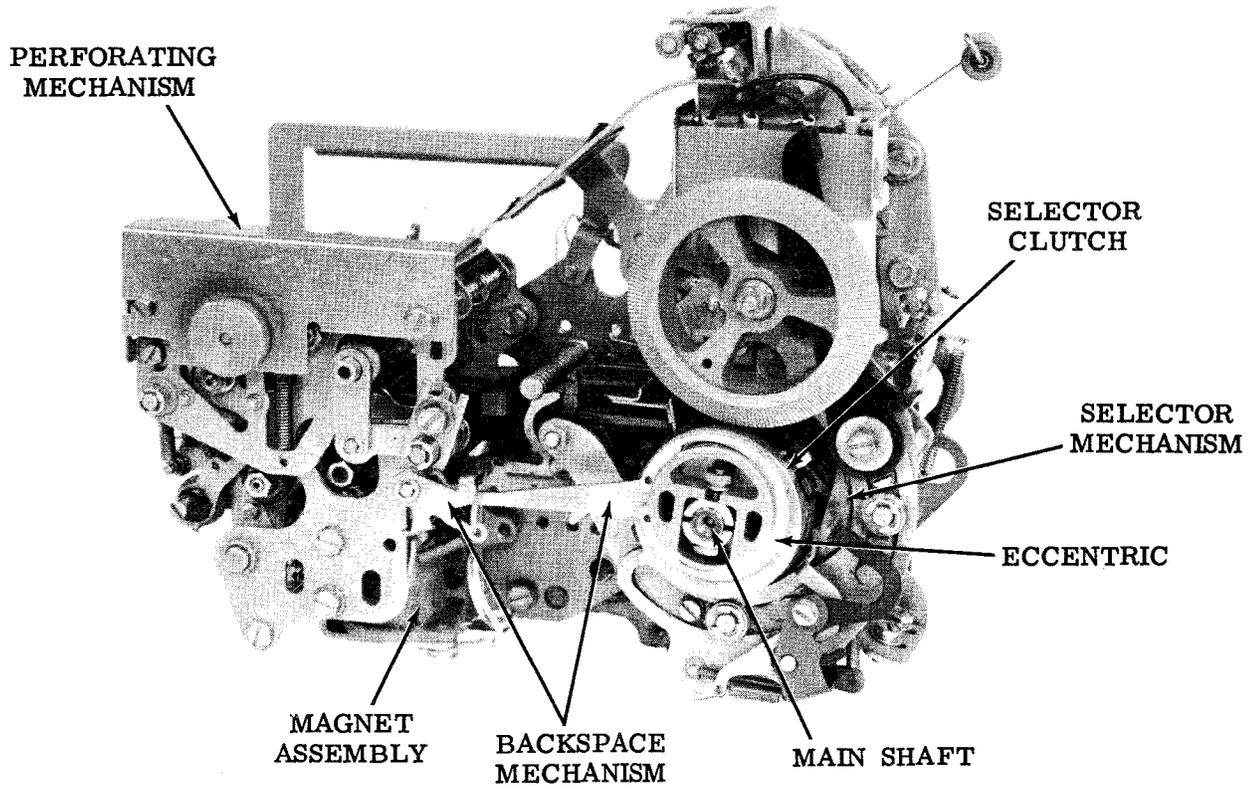
2.04 To replace the selector mechanism, reverse the removal procedure. To facilitate replacing the cam sleeve, reverse the procedure but continue to rotate the sleeve counterclockwise. When the sleeve is almost fully in place, pull the trip lever arm and selector clutch latchlever away from their cams.

MAIN SHAFT

2.05 To remove the main shaft after the selector mechanism (2.03) has been removed, proceed as follows (Figure 3):

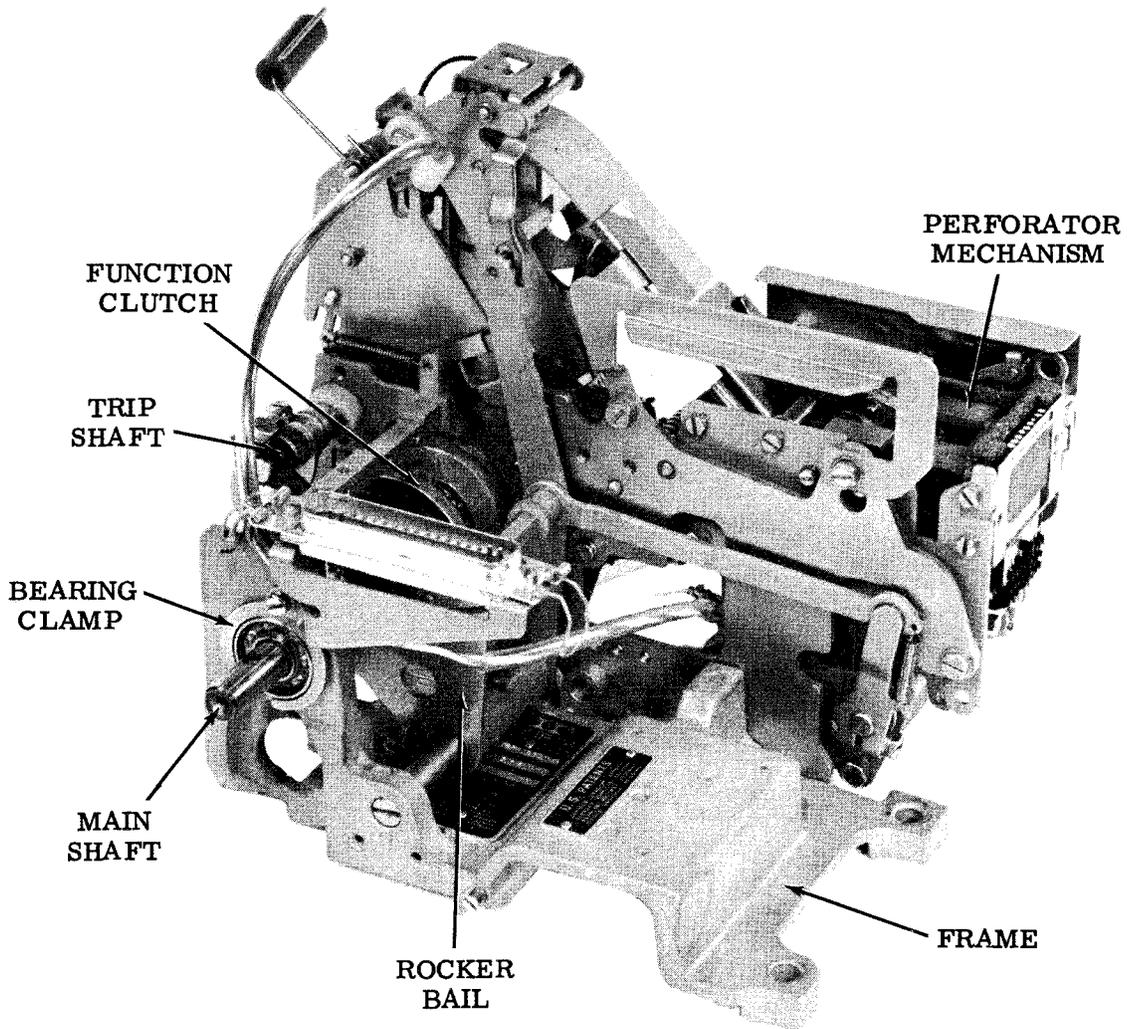
- (1) Remove the retaining ring, spring washer and flat washer from the forward end of the main shaft.
- (2) Remove the screw and lockwasher from the TP150000 clutch drum.
- (3) Remove the screw and lockwasher from the TP173340 collar.
- (4) Remove the screw and lockwasher from the rear bearing clamp.
- (5) Pull the main shaft out toward the rear while removing the function clutch and collar.

2.06 To replace the main shaft, reverse the disassembly procedure.



(Right Side View)

Figure 2 - 37 Nontyping Reperforator



(Left Front View)

Figure 3 - 37 Nontyping Reperforator