

TECHNICAL MANUAL

TYPING AND NONTYPING REPERFORATORS TELETYPE MODEL 14

CHANGES }
No. 2 }

DEPARTMENT OF THE ARMY
WASHINGTON 25, D. C., 21 April 1952

TM 11-2223, 15 September 1947, is changed as follows:

PART ONE

INTRODUCTION

Note (Added). These changes cover Reperforator TT-53/FG (formerly known under the code designation FPR21GB226) and Reperforator TT-16/FG (formerly known under the code designation FPR23GB226), furnished on Order Nos. 6484-Phila-51 and 6531-Phila-51.

237.1 Selector Stop Arm and Stop-Lever Engagement (Pulling Magnet Selector) (fig. 1431.1) (Added)

Note. The following adjustment applies only to units equipped with the adjustable range scale assembly, starting with serial number No. 73280.

a. Preparation. With the selector magnet armature in the spacing position, rotate the selector can sleeve until the stop arm moves the stop lever to its maximum travel beyond the step of the trip latch. Loosen the range scale assembly mounting screws and positioning link mounting screw just enough to make the screws friction-tight.

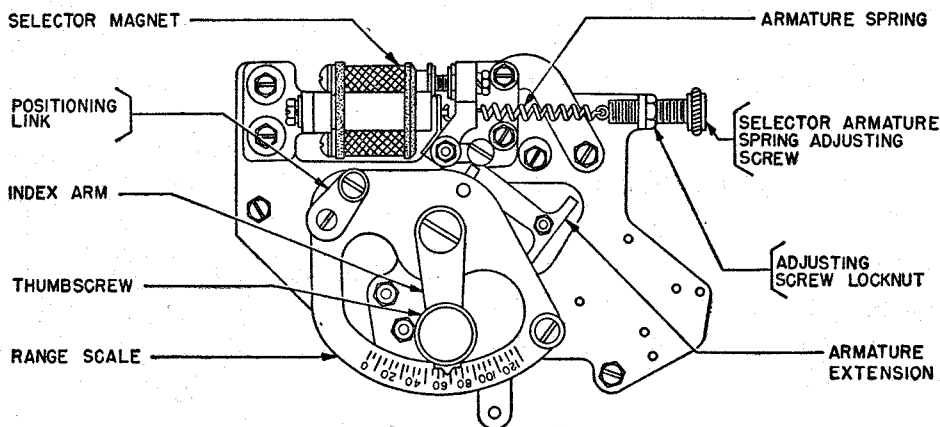
b. Requirement. The overtravel of the stop lever beyond the trip latch is at least one-half, but

not more than the full width, of the stop lever. This should be checked with the index arm set 0, 60, and 120 on the range scale.

c. Adjustment. Position the range scale assembly to meet the requirement. Tighten the mounting screws and positioning link mounting screw.

259.1 Selector Stop Arm and Stop-Lever Engagement (Holding Magnet Selector) (fig. 143.1) (Added)

This adjustment applies only to units equipped with the adjustable range scale assembly starting with serial No. 73280. The adjustment is made in the same manner as outlined in paragraph 237.1.



TM 2223-C2-1

Figure 143.1 (Added) Adjustable range scale (only on equipments starting with serial No. 73280).

280. Ribbon-Feed Pawl Spring Pressure Adjustment
(fig. 166)

* * * * *

b. (Superseded) *Requirements.* With the ribbon-feed shaft pushed to the right, the main shaft in its stop position, and an 8-ounce scale hooked over the extreme front edge of the ribbon-feed pawl and pulled at right angles to the pawl, it should require 6 to 8 ounces to start the pawl moving away from the ribbon-feed ratchet.

* * * * *

288. Tape-Tension Lever Stud Adjustment
(fig. 173)

* * * * *

b. (Superseded) *Requirements.* The tape-tension lever stud should be located centrally with respect to the feed-roll pins. Measure this requirement as follows:

- (1) Take up the feed-roll end play toward the star wheel and the tension lever end play toward its adjusting nut. The edge of the lever slot may touch the feed-roll pins on the side of the pins nearest the ratchet, but there must be some clearance on the other side.
- (2) Take up the feed-roll end play in a direction away from the star wheel and the tension lever end play in a direction away from its adjusting nut. The edge of the lever slot may touch the feed-roll pins on the side farthest away from the ratchet, but there must be clearance on the other side.

* * * * *

The note at the end of paragraph 310b is deleted.

312. Shift-Lever Spring Tension Adjustment
(fig. 179)

* * * * *

b. *Requirements.* With the shift * * * the platen shaft. It should require 1/2 to 1 1/2 ounces to start the lever moving.

* * * * *

317. Selector-Clutch Torque Adjustment
(fig. 183)

* * * * *

c. (Superseded) *Adjustment.* Check the condition of the felt washers and lubricate or replace them if necessary. If the requirement still is not met, proceed as follows:

- (1) On units up to and including serial No. 71306, the clutch torque may be adjusted by replacing the 72514 spring or by using shims between the 72515 nut and the spring. Shims are available under the following numbers: 96763 (.012 inch thick), 96764 (.016 inch thick), and 96765 (.020 inch thick).
- (2) Each unit starting with serial No. 71307 has an adjustable capstan nut (122974). To adjust the selector clutch torque, position the capstan nut (fig. 266.2).

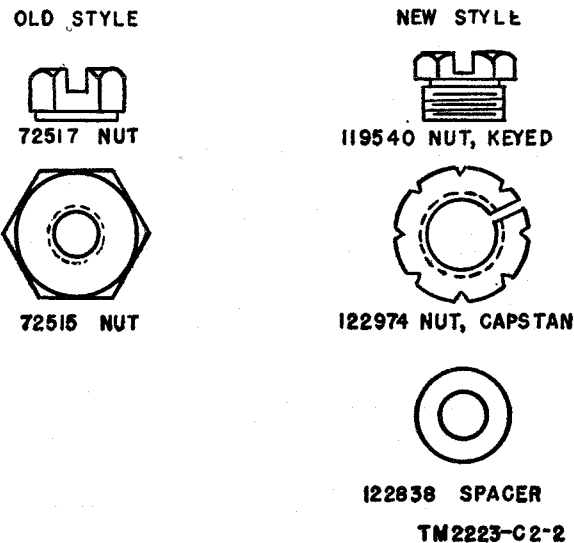


Figure 266.2 (Added) Selector clutch torque nuts.

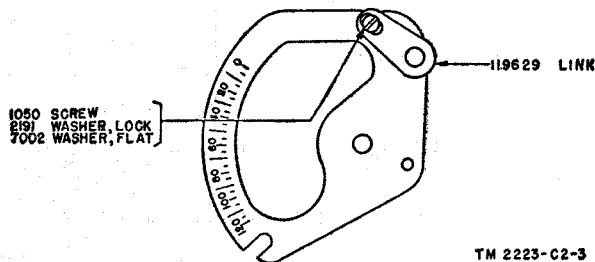


Figure 268.2 (Added) Range scale positioning link.

Figure 273. End-of-line indicator counter unit parts (FPR17, FPR21, and FPR23). (For equipments on Order Nos. 6484-Phila-51 and 6531-Phila-51, change the designation 87855 in the upper right-hand illustration to read: 94239.)

Figure 274. Center contact governor, governor brush and speed adjusting bracket, and motor-governor filter parts (FPR17, FPR21, and FPR23). (For equipments on Order Nos. 6484-Phila-51 and 6531-Phila-51, make the following changes: In the upper left-hand illustration, change the designation 6330 bearing (assembly) (upper and lower) to read: 72474 bearing, threaded, and 72475 bearing, unthreaded. In the upper right-hand illustration, add 7002 washer, flat, to the two right-hand 6347 screws. In the second illustration from the bottom, delete 82440 screw (A) (used only with 99250 motor-governor filter (assembly), 80342 screw (B), and 80341 governor brush and speed adjusting bracket (assembly) (excludes part marked (A)). Delete (excludes parts marked (A) and (B)) from the caption 105447 governor brush

and speed adjusting bracket (assembly). In the lower illustration, change 74059 screws to read: 93141 screws. Add 36273 washer, flat, to the same groups. Change 77911 to read: 70873.)

Figure 275. Governed series motor units (106174 and 105738) parts (FPR17, FPR21, and FPR23). (In the lower illustration, change 6710 armature to read: 122296 armature (includes 80358 ball bearings). Delete (C) 80341 governor brush and speed adjusting bracket (assem). Change the (B) preceding 105447 governor brush and speed adjusting bracket (assem) to read: (A). Beneath the illustration, change 6708 to read: 122295. The 6708 motor and 6710 armature are no longer available. The 122296 armature, which superseded 6710, includes two 80358 ball bearings. When this armature is installed in any 6708 motor, omit the following parts (used with 5061 ball bearing): 73231 steel bearing retainer, 71189 copper bearing retainer, 73232 felt washer, and 1272 screw. The 5061 ball bearing (not used on 122295 motor) is available for replacement purposes on 6708 motors.)

APPENDIX II

IDENTIFICATION TABLE OF PARTS

1. Identification Table of Parts for Model 14 Typing and Nontyping Reperforators

- a. Rescinded.
- b. Rescinded.

Note. The following list * * * manufacturer's part numbers. The fact that a part is listed below is not sufficient basis for requisitioning the item. Requisitions must cite an authorized basis, such as a spe-

cific T/O&E, SIG 7 & 8, SIG 10, list of allowances of expendable material, or other authorized supply basis. The Department of the Army Supply Catalogs applicable to the various models of the typing and nontyping reperforators covered in this manual are SIG 8-TT-14RPFT; part of SIG 7 & 8-AN/GRC-26; SIG 10-850; SIG 10-851; and SIG 10-863. For an index of available supply catalogs in the Signal portion of the Department of the Army Supply Catalog, see SIG 1.

Ref symbol	Fig. location	Name of part and description	Signal Corps stock No.
.	.	.	.

Note 1. (Added by C 1, 24 Jun 49) For equipments on * * * are not used:

* * * * *

Note 2. (Added by C 1, 24 Jun 49) The following new parts have been added:

* * * * *

Note 3. (Added) For equipment on Order Nos. 6484-Phila-51 and 6531-Phila-51, the following numbered parts are not used:

1272	6708	71189	73232	77911	80341	82440
6330	6710	73231	74059	8034	80342	87855

Note 4. (Added) The following new parts are added in equipments furnished on Order Nos. 6484-Phila-51 and 6531-Phila-51.

Ref symbol	Name of part and description	Function of part	Signal Corps stock No.
122296	ARMATURE (includes 80358 ball bearings)-----	Motor rotor.	
80358	BEARING, ball: single row, radial; felt seal, one side--	Mounts motor armature-----	4T80358
94239	BRACKET, adjusting-----	In end-of-line indicator mechanism-----	4T94239
72474	CAP, bearing: brass-----	In upper half of governor wheel-----	4T72474
72475	CAP, bearing: brass-----	In lower half of governor wheel-----	4T72475
70873	CAP, contact brush: black bakelite-----		4T70873
122295	MOTOR-----	Furnishes mechanical power to operate reperformator.	
93141	SCREW, machine: Fil H; steel, zinc plate, chromate finish.	-----	4T93141
36273	WASHER, flat: hardened steel; zinc plate, chromate finish.	-----	4T36273
7002	WASHER, flat: steel, dull nickel finish; 3/4" ID x 1/16" OD x .032" thk.	-----	4T7002

[AG 300.7 (3 Apr 52)]

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