

INSTRUCTIONS FOR INSTALLING THE 152322 AND 152335 MODIFICATION KIT OR THE 152348 MODIFICATION KIT TO PROVIDE AUTOMATIC CARRIAGE RETURN AND LINE FEED AND THE 153945 MODIFICATION KIT TO PROVIDE THE "O" CODE BAR AND BELL CRANK ON THE MODEL 28 TYPING UNIT LP4, LP5, LP6 THROUGH LP9 (BELL SYSTEM 28A, 28B, 28C, 28D)

1. GENERAL

a. The 152322 and 152335 modification kit when installed on a Model 28 typing unit (LP4, LP5; Bell System 28A) provide the automatic carriage return and the line feed function. The 152322 modification kit mounts on the spacing drum and on the front plate behind the spacing drum. The 152335 modification kit mounts on the stunt box.

b. The 152348 modification kit when installed on a Model 28 Typing Unit (LP6 through LP9; Bell System 28B, 28C, 28D) equipped with the 152335 modification kit provides the automatic carriage return and line feed function.

c. The 153945 modification kit when installed on a Model 28 Typing Unit LP6, LP9 (Bell System 28B, 28C, 28D) provides the "O" code bar and bell crank for selective calling. Bell System 28E, 28F, 28G and 28H Typing Units are factory equipped with this modification kit.

d. Refer to Teletype Model 28 Printer Description Bulletin for theory of operation for the automatic carriage return and line feed function.

e. The 152322 modification kit consists of:

1	2191	Lock Washer	1	151346	Screw 6-40 x 3/8 Fil.
1	8330	Flat Washer	1	152544	Code Bar "O"
1	95827	Bushing	1	152591	Arm
1	110436	Spring	1	152634	Flat Washer
1	150438	Bell Crank			

f. The 152335 modification kit consists of:

2	4703	Spring	2	152660	Spring Plate
*2	72522	Wick	2	152671	Function Bar (CR LF)
2	90517	Spring	*2	157200	Spring
*2	94693	Wick	*2	157240	Spring
2	152641	Lever			
2	152653	Pawl			

g. The modification kit consists of:

		152348	153945	
1	95827	Bushing	x	x
1	110436	Spring	x	x
2	110743	Lock Washer		x
1	150438	Bell Crank	x	x
2	151152	Screw 4-40 x 3/16 Hex.		x
1	152634	Flat Washer	x	x
1	153315	Bracket Assembly		x
1	153319	Code Bar "O"	x	x
1	154626	Suppression Ring	x	

h. For part numbers referred to, see Teletype Model 28 Printer Parts Bulletin.

## 2. INSTALLATION

NOTE: Refer to the Model 28 Printer Adjustment Bulletin for removal instructions of major components.

a. 152322 modification kit for Typing Units LP4, LP5.

- (1) Remove the typing unit.
- (2) Remove the front plate.
- (3) Install all parts of the 152322 modification kit except the 152554 code bar. Refer to the parts bulletin for illustration.
- (4) Remove the code bar assembly.
- (5) Install the 152554 code bar.
- (6) Reinstall the code bar assembly in accordance with the adjustment bulletin.
- (7) Reinstall the front plate assembly in accordance with the adjustment bulletin.

b. 152335 modification kit for Typing Units LP4, LP5, (Figure 2-67). This modification kit is effective only if the spacing cutout for the right hand margin is disabled and a typing unit is equipped with the 152322 modification kit or an appropriate mechanism.

- (1) Follow procedure in paragraph 2.a.(1).
- (2) Remove the stunt box.
- \* (3) Install the 152335 modification kit in slots 4 and 39 of the stunt box. Use the 157200 spring and 94693 wick for LP4, LP5 and LP7 Typing Units and 157240 spring and 72522 wick for LP6, LP8, LP9 Typing Units.

(4) Reinstall the stunt box in accordance with the adjustment bulletin.

(5) Replace the stunt box mounting screws. Replace the remaining parts in the reverse order in which the parts were removed.

c. 152348 modification kit (Figure 2-42) for Typing Units LP6, through LP9 equipped with the 152335 modification kit (see paragraph 2.b.)

(1) Follow procedure in paragraph 2.a.(1) and (2).

(2) Install all parts of the 152348 modification kit except the 153319 code bar and the 154626 automatic CR-LF ring.

(3) Follow procedure in paragraph 2.a.(4).

(4) Install the 153319 code bar.

(5) Remove the spacing drum. To remove the spacing drum proceed as follows:

(a) Remove the following left and right printing carriage draw wire pulley assembly retainer parts after removing spring tension from left spacing drum.

151632	Screw	(2)	7002	Washer	(2)
2191	Lock Washer	(2)			

Remove the pulley assemblies.

(b) Remove the following printing track and pulley support plate retaining parts:

112626	Nut	(2)	151657	or	
2669	Lock Washer	(2)	151630	Screw	(2)
			2191	Lock Washer	(2)
			7002	Washer	(2)

Remove the printing track and pulley support plate.

(c) Remove the carriage return latch bail assembly after first removing the 119652 retainer and disengaging the 125238 latch bail spring.

(d) Remove the following dashpot plunger assembly transfer slide stud retainers.

112626	Nut	(1)	2669	Lock Washer	(1)
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(e) Remove the following draw wire rope retaining parts from the spacing drum:

151618	Screw	(2)	7002	Washer	(2)
2191	Lock Washer	(2)			

(f) Remove the 150206 spacing sleeve, hold up the spacing pawls, push dashpot plunger to the right and pull the spacing drum slightly forward. Remove the dashpot plunger assembly and entirely remove the spacing drum.

(g) Replace the 154625 suppression ring (Figure 2-16) with the 154626 ring.

(h) Reassemble the spacing drum by reversing procedure used in removal.

(i) Follow procedure in paragraphs 2.a.(6) and (7).

d. 153945 modification kit (Figure 2-42) for Typing Units LP6, LP9 not equipped with automatic CR-LF.

(1) Follow procedure in paragraphs 2.a.(1) and (2).

(2) Install the following parts on the front plate assembly.

1 152634	Flat Washer	1 95827	Bushing
1 150438	Bell Crank	1 110436	Spring

(3) Follow procedure in paragraph 2.a.(4).

(4) Install the following parts in the code bar assembly:

1 153319	Code Bar "0"	2 110743	Lock Washer
1 153315	Bracket Assembly	2 151152	Screw

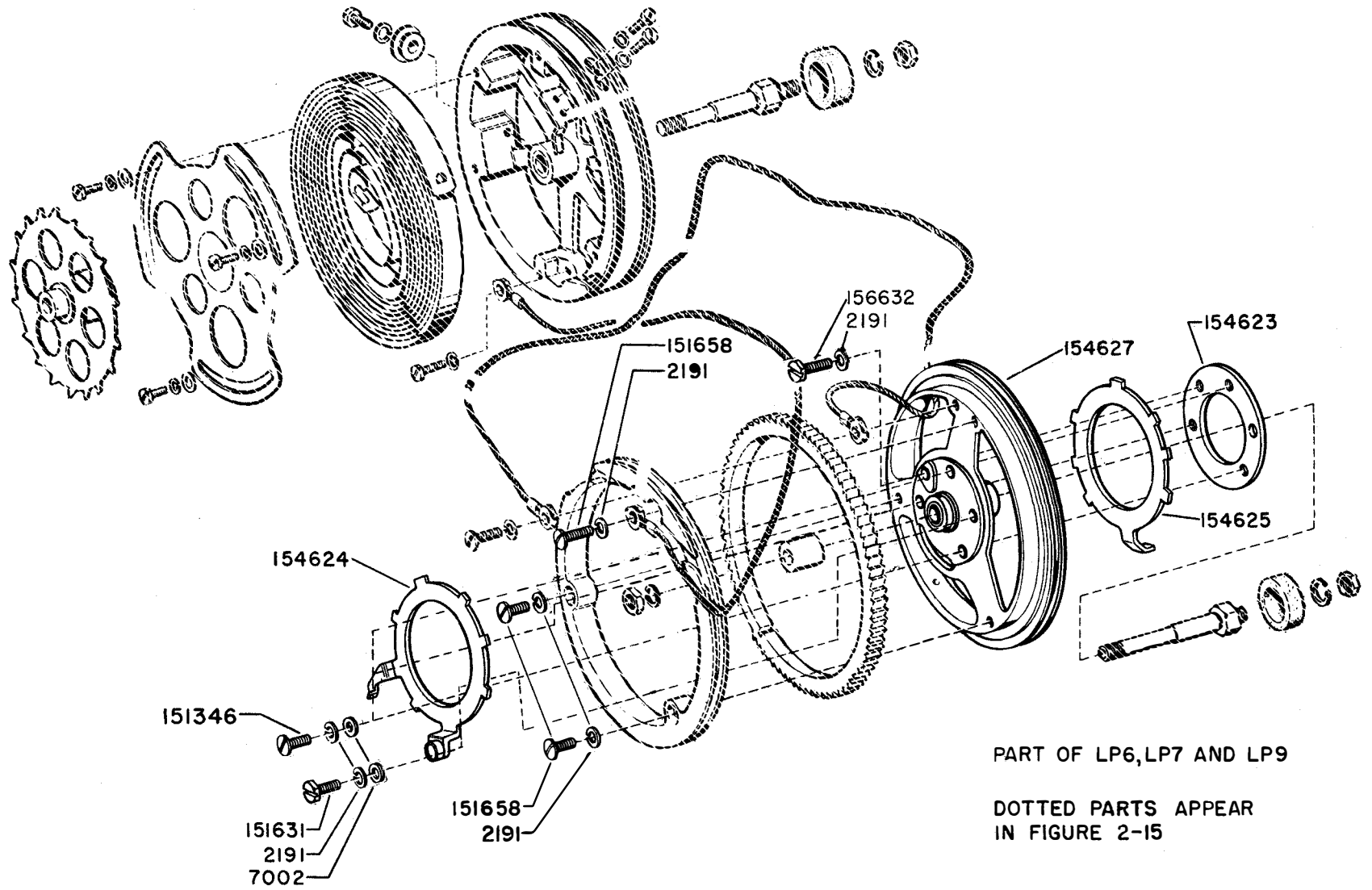
(5) Follow procedure in paragraphs 2.a.(6) and (7).

### 3. ADJUSTMENTS

For adjusting procedure refer to standardized adjustment information. Check the following:

- (1) Spacing Gear Phasing
- (2) Oscillating Rail Slide Position
- (3) Carriage Wire Rope
- (4) Carriage Return Spring Tension
- (5) Carriage Return Latch Bail
- (6) Carriage Return Lever
- (7) Printing Carriage Position
- (8) Left Hand Margin
- (9) Right Margin (Does not apply on units equipped with the Automatic Carriage Return-line feed ring)
- (10) Printing Track
- (11) Automatic Carriage Return Arm

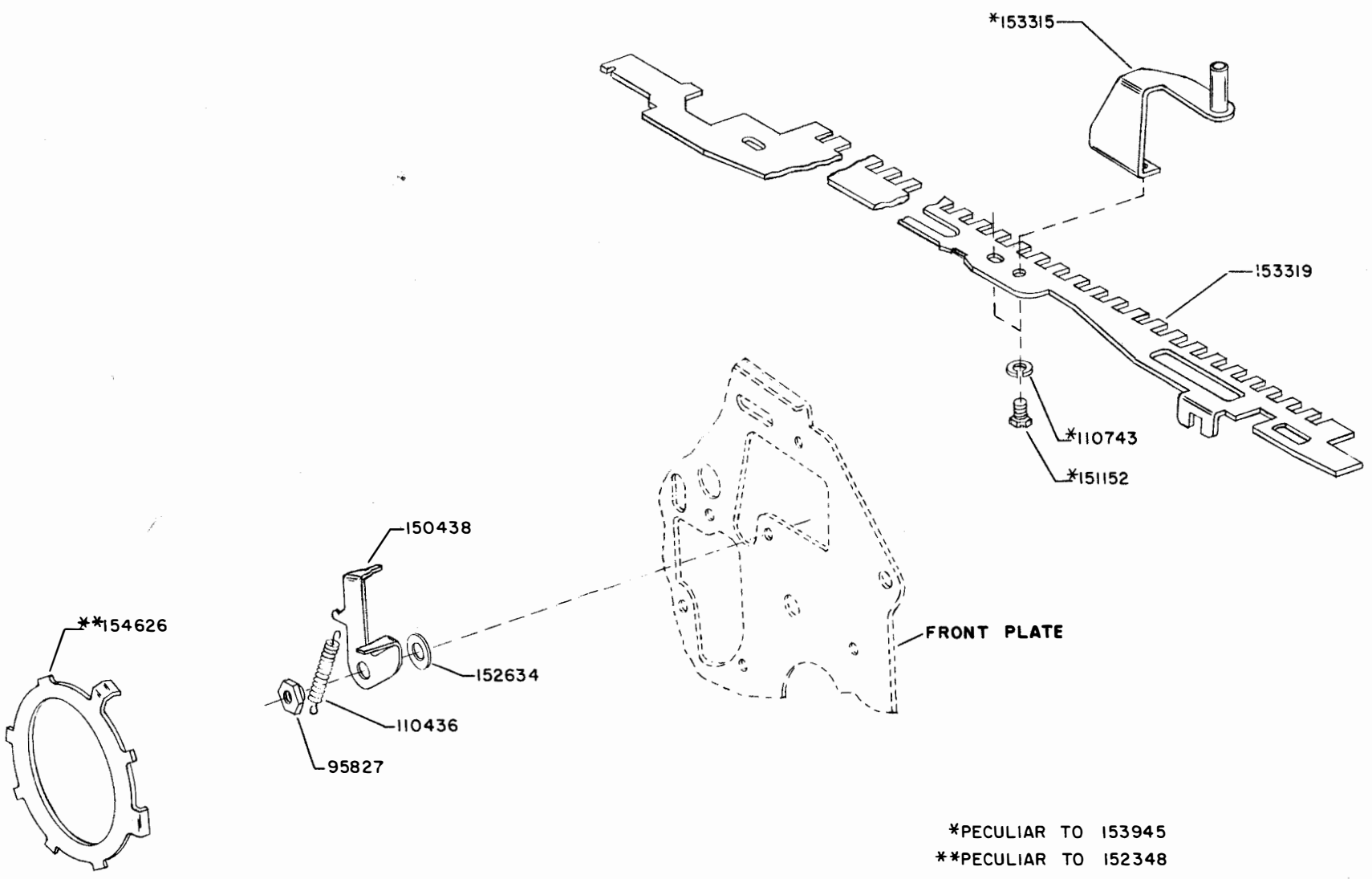
FIGURE 2-16. SPACING DRUM MECHANISM



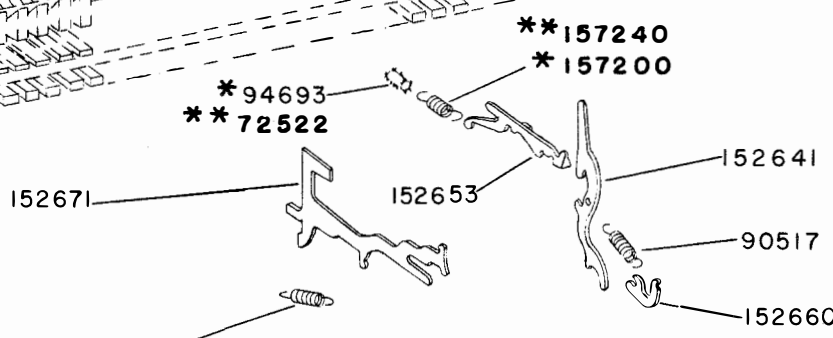
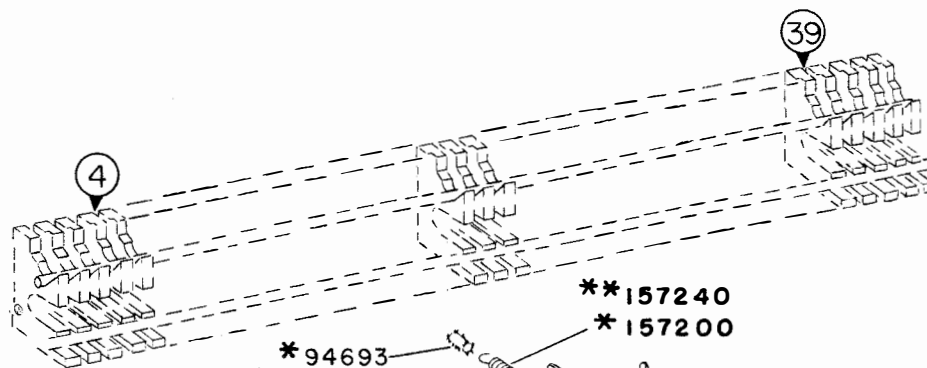
PART OF LP6, LP7 AND LP9

DOTTED PARTS APPEAR  
IN FIGURE 2-15

FIGURE 2-42. 152348 AUTOMATIC CARRIAGE RETURN AND LINE FEED SET OF PARTS AND 153945 "O" CODE BAR AND BELL CRANK SET OF PARTS



\*PECULIAR TO 153945  
 \*\*PECULIAR TO 152348



\* LP4, LP5, LP7  
 \*\* LP6, LP8, LP9

ONE EACH OF THE ABOVE PARTS SHOULD BE INSTALLED  
 IN THE SLOTS IDENTIFIED BY THE ENCIRCLED NUMBERS

FIGURE 2-67 I52335 STUNT BOX AUTOMATIC CARRIAGE RETURN AND  
 LINE FEED SET OF PARTS



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