

***INSTRUCTIONS FOR CONVERTING A MODEL 28 PRINTER SET
(TYPING UNIT LP6, LP9, FROM BELL SYSTEM 28B, 28C, 28D TO
28E, 28G; AND CABINETS LAC203**, LAC204**; BELL SYSTEM
28B, 28C) FROM NON-SELECTIVE CALLING TO SELECTIVE
CALLING USING THE 153941 OR 154758 MODIFICATION KIT**

1. GENERAL

*a. The 153941 or 154758 Modification Kit converts a non-selective calling printer set (Typing Unit LP6, LP9; from Bell System 28B, 28C, 28D to 28E, 28F, 28G and Cabinets LAC203**, LAC204**; Bell System 28B, 28C) to a selective calling printer set and provides the group call directing character "U". When using the 154758 Modification Kit the typing unit must be equipped with the 152337 and 153945 Modification Kits.

b. The 153918 Modification Kit and a desired function bar in addition to the 153941 Modification Kit must be installed for applications requiring an individual call directing character.

c. The 153915 and 153918 Modification Kit, the 157164 Slide (used in place of the 154639 Slide) and the desired function bars must be installed in addition to the 153941 Modification Kit for applications requiring sequential call directing character operation.

*d. The 153941 Modification Kit consists of:

4	3599	Nut 4-40 Hex.	4	153644	Stud
9	4703	Spring	4	*155933	Plate, Guide
9	72522	Wick	8	*103863	Spacer
9	90517	Spring	2	*155934	Plate
4	110743	Washer, Lock	1	*155938	Slide
2	119649	Ring, Retainer	1	153919	Modification Kit (Listed in Specification 5820S)
1	121243	Clamp, Cable	1	153920	Modification Kit (Listed in Specification 5827S)
4	125011	Washer, Flat	1	153945	Modification Kit (Listed in Specification 5788S)
1	151739AN	Screw 6-40 x 3/16 Hex.	3	154613	Latch
3	152089	Latch	1	*155941	Slide
2	152121	Lever	1	154646	Lever
3	152298	Lever	2	154647	Lever
1	152337	Modification Kit (Listed in Specification 5823S)	1	154669	Shaft
2	152642	Lever	1	155120	Bar, Function (U)
9	152653	Pawl	1	155126	Bar, Function (-)
3	152660	Plate Spring	1	155129	Bar, Function (SP)
1	152665	Bar, Function - LTR	1	155130	Bar, Function (LF)
2	152666	Bar, Function - FIG	*1	172503	Switch Assembly
1	152667	Bar, Function - CR	1	157104	Cable Assembly
1	152668	Bar, Function - LF	9	157240	Spring
1	152673	Bar, Function - UCH	*1	2904WD	Diagram, Wiring
2	155935	Fork			
2	153609	Roller			

*Indicates Change

Printed in U.S.A.

e. The 154758 Modification Kit consists of:

- 1 152810 Stunt Box Assembly - Arrangement "AN"
- 1 153919 Modification Kit (Listed in Specification 5820S)
- 1 153920 Modification Kit (Listed in Specification 5827S)

f. The 153915 or 153918 Modification Kit consists of:

		153915	153918
1	4703 Spring	x	x
1	72522 Wick	x	x
1	90517 Spring	x	x
1	152089 Function Lever Latch		x
1	152121 Lever	x	
1	152298 Lever		x
1	152653 Pawl	x	x
1	154613 Function Lever Latch	x	
1	157240 Pawl Spring	x	x

g. For part numbers referred to in the following text and for parts ordering information see Teletype Model 28 Printer Parts Bulletin.

2. INSTALLATION (Figure 1)

a. 153941 Modification Kit

- (1) Remove the typing unit from the base.
- (2) Remove the stunt box in accordance with standard practice.

(3) Modify the 154944 Stunt Box arrangement "AR" to 152810 arrangement "AN" as follows:

(a) Remove and retain the 153581 Handle, 151692 Screw and two 2191 Lock Washers, discard the identification screw stamped "AR".

* (b) Remove and discard 155067 Cable Assembly, the 152143 Contact Assembly or 157070 Switch Assembly (which is attached to the cable) and the 151689 Screws and 110743 Washers.

(c) Remove and discard the 152127 clips from slots 28 and 35. Replace screws.

(d) Remove the 152889 Retainer (from left side of stunt box) and the center 150547 Shaft so that function levers can be removed and installed.

(e) Loosen the three 5740 Screws in the 150689 Guide Blocks so that the spring plates can be snapped in or out.

(f) Remove the following parts from slot 28 and install in slot 10 with a 152666 Function Bar, 152653 Function Pawl and 157240 Spring with 72522 Wick:

90517	Spring	4703	Spring
154613	Latch	152693	Function Bar (Discard)
152121	Function Lever		

(g) Remove the following parts from slot 22 and install in slot 15:

90517	Spring	152669	Function Bar
152660	Spring Plate	157240	Spring
152641	Function Lever	72522	Wick
4703	Spring	152653	Function Pawl

(h) Remove the following parts from slot 30 and install in slot 25 with a 152653 Function Pawl and a 157240 Spring with 72522 Wick:

153437	Function Bar	152641	Function Lever
90517	Spring	4703	Spring
152660	Spring Plate		

(i) Remove the following parts from slot 38 and install in slot 16:

90517	Spring	152668	Function Bar
152660	Spring Plate	157240	Spring
152641	Function Lever	72522	Wick
4703	Spring	152653	Function Pawl

(j) Remove the following parts from slot 29 and install in slot 31 with a 154647 Function Lever:

90517	Spring	157240	Spring
152660	Spring Plate	72522	Wick
4703	Spring	152653	Function Pawl
152673	Function Bar	152641	Function Lever (Discard)

(k) Install the following parts in slot indicated; numbers refer to sequence of installation:

		SLOT									
		27	30	26	13	6	11	14	28	37	
152653	Function Pawl	1		1	1	1	1	1		1	
72522	Wick	2		2	2	2	2	2		2	
157240	Spring	3		3	3	3	3	3		3	
155129	Function Bar	4									
4703	Spring	2	2	5	5	5	5	5	2	5	
152642	Function Lever	6									
152660	Spring Plate	7					7			7	
90517	Spring	8	5	8	8	8	8	8	5	8	
152666	Function Bar		1								
152121	Function Lever		3		6						
154613	Latch		4	7	7						
152665	Function Bar			4							
154646	Function Lever			6							
152667	Function Bar				4						

		SLOT								
		27	30	26	13	6	11	14	28	37
155120	Function Bar					4				
152298	Function Lever					6				
152089	Latch					7	7	4		
152673	Function Bar						4			
154647	Function Lever						6			
152668	Function Bar							4		
152298	Function Lever							6	3	
155126	Function Bar								1	
155130	Function Bar									4
152642	Function Lever									6

(l) Tighten the three 5740 Screws loosened in paragraph 2.e.

(m) Replace the center 150547 Shaft and 152889 Retainer previously removed in paragraph 2.d.

(n) Place the 154669 Shaft through the holes in the function lever extensions of slots 11 and 31 so that the retainer grooves are located on each side of the extension in slot 31, then insert the 119649 Retainer Rings.

(o) Install the slide mechanism parts as follows: (The slide nearest slot 8 will be operated by levers in slots 6, 7, 8 and 9; the slide nearest slot 14 will be operated by the lever in slot 14.)

(1) Thread the two 153644 Studs into the top plate of the stunt box, one behind the other, at the two mounting holes nearest slot 8 and slot 14.

(2) Place the 155933 Plate over the studs so that the ear is towards the front of the typing unit and extends upward.

(3) Place one 103863 Spacer over each stud.

(4) Place the 155941 Slide nearest slot 8 (with the top of the function lever in slot 6 through the hole in the slide) and the 155938 Slide nearest slot 14 (with the top of the function lever in slot 14 through the hole in the slide) on the 155933 Plates, to the right of the studs (typing unit viewed from the rear) and with the angle projections extending to the left.

(5) Place the 155934 Plate over the studs with the two projections extending towards the rear of the typing unit.

(6) Place one 103863 Spacer over each stud.

(7) Place the 153609 Roller on the under side of the 155935 Fork Pin. (The shoulder of the pin faces downward.)

(8) Place the 155935 Fork over the studs so that the tines extend toward the front of the typing unit.

(9) Place the 155933 Plate over the studs so that the ear is towards the front of the typing unit, and extends downward.

(10) Secure each assembly with the 125011 Flat Washer, 110743 Lock Washers and 3599 Nuts.

* (p) Discard the two 151880 Nuts of the 172503 Switch Assembly which are for handling purposes only. Use the 151689 Screws and 110743 Lock Washers furnished to mount the 172503 Switch Assembly on top of the stunt box. Check to see that the contact arm insulators are in alignment with the function levers in slots 25, 26, 27, and 28. If necessary, loosen the screws and position the switch to meet the requirements. Check to see that there is some clearance between the contact arm and vertical face of the clip when the play in the arm is taken up to make the clearance minimum.

(4) Remove the 154650 Clip from the code bar detent bracket which blocks suppression code bar.

(5) Install the 152337 Modification Kit following procedure in specification 5823S supplied.

(6) Install the 153945 Modification Kit following procedure in specification 5788S.

(7) Replace the 153581 Bar using the 151692 Screw and 2191 Lock Washers which were retained and the 151739 AN Identification Screw stamped "AN". Reinstall the stunt box.

(8) Install the 153919 Modification Kit, the 157104 Cable Assembly, and the 121243 Cable Clamp following procedure in specification 5820S supplied.

* (9) Solder the 157104 Cable Assembly to the 172503 Switch Assembly as shown in wiring diagram 2904WD. Tie the 157104 Cable to the 150544 Tie Bar with lacing twine.

NOTE

Care should be exercised when soldering, lacing or routing the cables so as not to tug or pull unnecessarily on the contact spring to prevent distortion or damage to the spring.

*b. 154758 Modification Kit

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

(2) Remove and retain the 86835 Spring, 152462 and 153463 Latch from the 152461 Connector Bracket.

- (3) Remove and retain the two 151658 Screws, and the two 2191 Lock Washers which mount the 152467 Connector.
- (4) Remove both of the 152464 Insulators from the 152461 Connector Bracket and retain one of the insulators.
- (5) Remove the 152467 Connector from the 152461 Connector Bracket and unsolder the stunt box cable from the 152467 Connector.
- (6) Remove the 151692 Screw, 2191 Lock Washer, 150040 Screw and 2191 Lock Washer which mount the 152461 Connector Bracket to the right side frame. Discard the 152461 Connector Bracket.
- (7) 152810 "AN" Stunt Box arrangement.
 - *(a) Make certain that the 172503 Switch Assembly has the contact arms in the right slots (157887, 157899, 157899, 157887 in slots 1, 2, 3 and 4 respectively).
 - (b) Install the "AN" Stunt Box into the typing unit accordance with standard practice.
- (8) Follow procedure in paragraphs 2.a. (8) and (10).

3. ADJUSTMENTS

For adjustments procedure refer to standardized adjustment information.

*

*

*

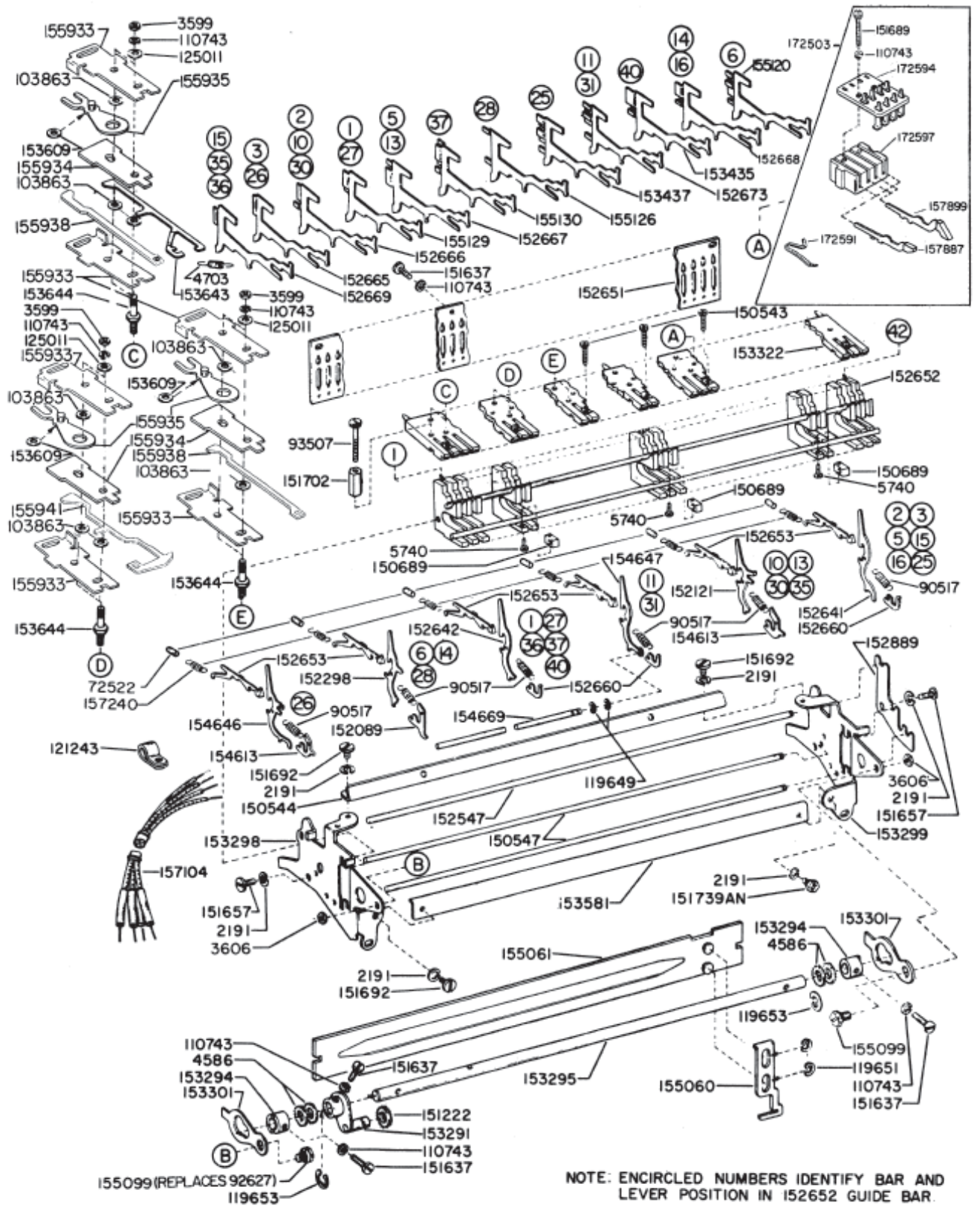


FIGURE I I52810 AN STUNT BOX ARRANGEMENT