DATA EQUIPMENT
MODEL 15 TELEPRINTER AND MODEL 19 ASR SET
EQUIPPED WITH AN LABD 500 ANSWER-BACK UNIT

ASSEMBLY AND WIRING

This appendix was written to amend paragraph 6 under installation and assembly, to add newly assigned IDP numbers to the bill of material, to change Wiring Diagram 526812, and change the notes on Drawing 528003.

UNDER DRAWINGS INCLUDED:

OMIT: Drawings
- 526812-A-2 Wiring Diagram
- 528002-A-2 1/2 Bill of Material
- 528003-A-7 Mounting Shelf

ADD: Drawings
- 526812-B-2 Wiring Diagram
- 528002-B-2 1/2 Bill of Material
- 528003-B-7 Mounting Shelf

UNDER: INSTALLATION AND ASSEMBLY

OMIT: Paragraph 6

ADD: Paragraph 6A on page 3 to read as follows:

The LABD 500 and the non-contention relay can be fastened to the rear shelf of 19 Set table 7904 as shown on Drawing 527553. This same method can be used to fasten the LABD 500 to Mounting Shelf 528003. In a 5A or 7300 or 7301A Type Console, Mounting Shelf 528003 should be located on the inner rear wall under the, "SLIDE SHELF FOR PRINTER."
The two mounting holes for the shelf should be located 10 inches from the bottom of the, "SLIDE SHELF FOR PRINTER" with approximately 3 inches on each side of the mounting shelf to the side walls of the console. The shelf is mounted to the console with two #8 screws, washers and nuts, (Items S, T, & Q), Drawing 528002. Use the shelf to spot the location of the holes to be drilled in the console. The non-contention relay bracket should be used as a locating template. Mount the lamp resistor next to the relay bracket as shown on Drawing 527553.

---oo000---

The changed portions of these specifications shall be marked "See Appendix No. 1."
NOTES:
1. A23 & A24, B32 & B33 ARE SHOWN ON Dwg. #312150.
2. REMOVE WIRE FROM B44 (Dwg. #312150) COMING FROM CO. CONNECT THIS WIRE TO B32. PLACE STRAP FROM B32 TO B54.
3. FOR SCHEMATIC WIRING SEE Dwg 526813.
<table>
<thead>
<tr>
<th>ITEM No.</th>
<th>QUANTITY</th>
<th>L.U.P. No.</th>
<th>ITEM</th>
<th>DESCRIPTION</th>
<th>SPECS. OR DWG.</th>
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<td>153733 Insulator</td>
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<td>74722 Terminal</td>
<td>H.B. Jones</td>
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<td>41732 Plate</td>
<td>H.B. Jones</td>
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<td>12374 Contact Spring</td>
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<td>12372 Contact Spring</td>
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<td>1</td>
<td>01337519</td>
<td>70529 Stiffener</td>
<td>H.B. Jones</td>
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<td>Dwg. 526803</td>
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</table>

**FASTENINGS**

|        | 2       | 01603084   | Screw 4-40x1/2 Round Hd. | | |
|        | 2       | 01775016   | Screw 6-40x3/8 Round Hd. | | |
|        | 2       | 01307348   | Washer #6 Flat | | |
|        | 1       | 01307263   | Screw 4-40x3/16 Round Hd. | | |
|        | 1       | 01307264   | Washer #4 Flat | | |
|        | 4       | 01260096   | Screw 6-32x3/8 Round Hd. | | |
|        | 1       | 01307264   | Washer #4 Lock | | |
|        | 1       | 01602797   | Screw 8-32 UNC-2A x4-1/2 Round Hd. Steel | | |
|        | 1       | 01726380   | Washer #8 Insulated | | |
|        | 3       | 01800840   | Nut, Wing 1/4-20 UNC-2B, Steel Cad. Plated | | |
|        | 1       | 01800840   | Standard Wrought Washer 3/4 O.D. Steel Bolt and Nut Corp. | | |
|        | 1       | 01800840   | Standard Wrought Washer 1-1/4 O.D. Steel Bolt and Nut Corp. | | |
|        | 3       | 01800840   | Standard Wrought Washer 1-3/4 O.D. Steel Bolt and Nut Corp. | | |
|        | 2       | 01603084   | Screw, Machine, 1/4-20x1/2 Pan Head, Steel Cad. Plated | | |
|        | 2       | 01243047   | Nut, Hex. 1/4-20 UNC-2B, Steel Cad. Plated | | |
|        | 3       | 01612515   | Washer, Lock, 1/4 ASA, Internal Tooth Steel, Parkerized | | |
|        | 1       | 01243047   | Nut 8-32, Hex. Steel | | |
|        | 4       | 01602798   | Washer, #8 Flat | | |

**WESTERN UNION**

MODELS 15 & 19 SETS WITH LABD

BILL OF MATERIAL

SHEET 1 OF 1

APPLD. ISSUE DATE DRAWING NO.

A 1-11-67 528002 -24
DRILLING:
A= .180 DR (4)

SPOT WELD TO BRACKET

NOTE:
1. MATERIAL:
2. THICK.
3. NEXT ASS'Y SPEC. NO.
4. APPLICATION
5. TOLERANCES UNLESS OTHERWISE SPECIFIED
6. DECIMAL FRACTIONAL
7. SCALE 1:1
8. SHELF, LARD, MOUNTING MODELS 15 & 19 WITH LARD
DATA EQUIPMENT

MODEL 15 TELEPRINTER AND MODEL 19 ASR SET
EQUIPPED WITH AN LABD 500 ANSWER-BACK UNIT

ASSEMBLY AND WIRING

These specifications cover the installation and wiring of a self-contained LABD 500 as used in the 5A, 7300, 9233 type consoles and 11481 operating table.

TELETYPE BULLETINS REFERRED TO:

136B Adjustments - Type Bar Page Printer - Models 15 and 20
272B Technical Manual - Models 28 and 35 Answer-Back Units
1037B Parts - Type Bar Page Printer - Model 15
574-235-800TC - Parts - Self-contained Answer-Back (LABD) Bulletin 1199

WESTERN UNION SPECIFICATIONS REFERRED TO:

9994 Wiring Cabinet 6752-B and 6752.1-A and Equipment Panels 7286-A and 7286.1A Installation and Operation
11761 Teleprinter Console 9233-A Assembly and Wiring
14535 Remote Control Unit 11272-A, 11272-B and 11272.2A - Theory of Operation
14576 Conversion of Operating Table 7904-A to Telex Operating Table 11481-A or 11481.1A

ENGINEERING BULLETINS REFERRED TO:

5315 Model 28 ASR Set - Description

ENGINEERING CATALOGS REFERRED TO:

50-B Teleprinter Type 15 - Catalog of Parts
DRAWINGS INCLUDED:

<table>
<thead>
<tr>
<th>Drawing No.</th>
<th>Description</th>
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<tr>
<td>154529-D-7</td>
<td>Wiring Cabinet 6752-A - Wiring</td>
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<tr>
<td>154627-F-2</td>
<td>Equipment Panel 7286-B - Wiring</td>
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<tr>
<td>177480-D-3</td>
<td>Consoles 9233-A and SA - Connections between RCU and Wiring Cabinet</td>
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<tr>
<td>312150-D-32</td>
<td>Telex Table 11481 - Schematic</td>
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<td>526812-A-2</td>
<td>Model 19 Set with LABD - Wiring Diagram</td>
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<td>526813-A-2</td>
<td>Model 19 Set with LABD - Schematic</td>
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<td>526814-A-1</td>
<td>Models 15 and 19 Sets with LABD - Contact Operating Arm</td>
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<td>526815-A-1</td>
<td>Models 15 and 19 Sets with LABD - Contact Operating Arm Clamp</td>
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<td>526816-A-1</td>
<td>Models 15 and 19 Sets with LABD - Relay Mounting Bracket</td>
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<td>526817-A-1</td>
<td>Models 15 and 19 Sets with LABD - Contact Bushing</td>
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<td>526818-A-1</td>
<td>Models 15 and 19 Sets with LABD - Contact Bracket</td>
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<td>527553-A-2</td>
<td>Models 15 and 19 Sets with LABD - Installation of LABD</td>
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<td>527554-A-2</td>
<td>Models 15 and 19 Sets with LABD - Installation of Contacts</td>
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<td>Models 15 and 19 Sets with LABD - Wiring</td>
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<td>Models 15 and 19 Sets with LABD - Main Door Modification</td>
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<td>528003-A-7</td>
<td>Models 15 and 19 Sets with LABD - Mounting Bracket</td>
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<tr>
<td>528002-A-2</td>
<td>Bill of Material</td>
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</table>

GENERAL

1. The LABD 500 is a self-contained answer-back unit that can be operated at speeds of 60, 66, 75 or 100 words per minute. The 21 character code drum can be used for one, two or three cycle operation, but the first character must always be a blank; this prevents the contacts from touching the buss bar in the home position, however transmission of the blank is suppressed. The distributor is a 7.5 unit printed circuit face plate. The schematic wiring is shown on Drawing 526813 and the actual wiring is shown on Drawing 526812.

2. These specifications provide information which will allow the answer-back unit to be tripped by upper case "D", as in Telex or upper case "F".
3 The answer-back is prevented from operating during keyboard transmission by the non-contention relay. This relay is energized by either upper case "D" or "F". The clutch trip magnet circuit of the LABD goes through a set of contacts operated by the relay. When the relay is energized this circuit is open. The circuit is restored upon receipt of a "Letters", or lower case "D" or "F" character as shown on Drawing 526813.

INSTALLATION AND ASSEMBLY

4 Installation of the upper case "D" or "F" contacts and the "Here Is" contact are shown on Drawing 527554. The contact operating assembly, part numbers 526814 and 526815, is clamped to either the "F" or "D" keylever, depending on the type of service. This contact and the "Here Is" contact (with lamp) are assembled on Bracket 526818. The complete assembly is then fastened to the keyboard using two #6-40 screws. The keylever contact should be adjusted to make when the keyboard transmitting shaft is released. The main door must be modified according to Drawing 527595.

5 Using Bracket 207643, install a Contact Assembly 135793 in positions A, B and D as shown on Drawing 206546 in Engineering Catalog 50B. Facing the front of the typing unit and counting the slots in the function box from left to right: In slot one install a 116965 Function Lever coded for "Letters"; in slot 5 a 207990 Function Lever coded for upper case "D" or "F", and in slot 9 a 207990 Function Lever coded for lower case "D" or "F". Use Coding Chart shown on Drawing 153631 in Engineering Catalog 50B.

6 The LABD 500 and the non-contention relay can be fastened to the floor of a console as shown on Drawing 527553. This same method can be used to fasten the LABD 500 to Mounting Bracket 528003. This bracket can then be mounted on a sidewall using two #8 screws, washers, and nuts, (Items S, T, Q), Drawing 528002. Use the bracket to spot the location of the holes to be drilled in the sidewall. The non-contention relay bracket can also be used as a locating template. Mount the lamp resistance next to the relay bracket as shown on Drawing 527553.
WIRING

7 Drawings 526812 and 526813 are the actual and schematic wiring diagrams of the LABD 500 and associated circuitry.

8 Drawing 527555 shows the necessary wiring changes when using a wiring cabinet in a Teleprinter Console 7300A and 5A, and Drawing 177480 is provided as further reference.

9 Drawing 154529 is a wiring diagram of Wiring Cabinet 6752-B which is used in Teleprinter Console 5A.

10 Drawing 154627 shows the wiring of Equipment Panel 7286-B used with a 7300 Type Console.

11 Drawing 312150 is a schematic of Operating Table 11481-A and 11481.1A as used in Telex.
CODE

1. Relay Sub-Base 4-A
2. Resistor 59-A, 500 ohms
3. Relay #BIAAX, Struthers-Dunn, Inc.
4. Terminal Strip #3-142-3/4 W.
5. H.B. Jones.
6. Terminal Strip #7-140-3/4 W.
8. Terminal Strip #11-140-3/4 W.

- #16 A.W.G. NEC Type TF, Solid Wire
- #22 A.W.G. Solid Instrument Wire per Specs. 9089

*Relay to be provided with Coil #360-38, 115 V. 60 cycle A.C. for A.C. areas. For D.C. areas, Coil #360-42, 115 V. D.C. shall be used.

THEORY

- Circuits identified
- Notes and instructions

DRAWING NUMBER
154627 2

W.U.TEL.CO.

EQUIPMENT PANEL
7286-B

WIRING

SCALE

DRAWN

TRACED

CHECKED

APPROVED

REV.

W.R.

DRAWING NUMBER
154627 2

W.U.TEL.CO.
1. A23 and A26, B32 and B33 are shown on Dwg. 512150.
2. Remove wire from B44 coming from C6, connect this wire to B32, place strap from B33 to B44.
3. For wiring diagram see Dwg. 526818.
4. For type 15 printer see Dwg. 527555.
MATERIAL: C.R.S. (SAE 1010-1020)

FINISH: SEE NOTE

SCALE 2 x 1

DRAWING NUMBER 526814

ARM MODELS 15-19 SETS WITH LABD CONTACT OPERATING

NEXT ASS'Y SPEC.NO.
APPLICATION
FINISH: SEE NOTE: DWG.

TOLERANCES UNLESS OTHERWISE SPECIFIED

DECIMAL FRACTIONAL ± 1/32

ANGULAR BET. HOLES ± 1/64

DR. R. L. HT DATE
DRAWN DSGN. ENGR. SPEC. ENGR. APPO

ISSUE DATE DRAWING NUMBER SIZE
A 20 OCT 66 526814 1

Sheet
FINISH NOTE: NICKLE PLATE DULL
ASTM A166 TYPE KS
FINISH NOTE: NICKEL PLATE DULL
ASTM A166 TYPE KS

MATERIAL:
CRS (SAE 1010-1020)
.060 ± .005 THICK

TOpERANCES UNLESS OTHERWISE SPECIFIED
DECIMAL  FRACTIONAL
±1/32

ANGULAR BET. HOLES
±1/64

DRAWN DSGN. ENGR. SPEC. ENGR.
R.L. HT DATE DATE
APPROVED
ISSUE DATE
A20 OCT.66
10-17-66 11-17-66

APPLICATION
BRACKET, RELAY MOUNTING MODELS 15 & 19 SETS WITH LABO

SIZE
1

REVISIONS

DRAWING NUMBER
526816

SHEET
1
MATERIAL: BAKELITE

TOLERANCES UNLESS OTHERWISE SPECIFIED

DECIMAL 1.005 FRACTIONAL

ANGULAR BET. HOLES

DRAWN DSGN. ENGR. SPEC. ENGR.

ISSUE DATE DATE DATE

APPLICATION DWG.

SCALE 4" = 1"

BUSHING, CONTACT

MODEL 5 15/19 SET WITH LABD

526817-1
DRILLINGS:
A - 4-40 UNC-28 (4)
B - .147 DRILL (2)
C - 1/2 DRILL
NOTES:
1. ALL "A" USED FOR MOUNTING RUBBER STANDOFFS. USE FOR REFERENCE ONLY.
2. 3/16 OR (3) MARKED "B" USING EXISTING 1" AND 5/8" HOLES IN LABD AS A TEMPLATE.
3. SECURE LABD AS PER FIG. 1
4. THIS SAME METHOD IS USED TO SECURE LABD 500 TO MOUNTING BRACKET.
REFERENCE DWGS:
1 - SEE DWG. 177480 FOR OUTGOING WIRING
2 - SEE DWG. 526813

WIRING DIAGRAM
MODEL 15 PRINTER WITH LABO

DRAWN DSGN. ENGR. SPEC. ENGR. APPD
N/K HT DATE DATE DATE
1/2/66

ISSUE DATE DRAWING NUMBER SIZE
A 4 JAN 67 527555 1
CUT OUT PORTION OF COVER WITHIN DOTTED LINES

\[ \frac{3}{8} R \]

\[ 4 \frac{1}{16} \]

\[ 5 \frac{5}{8} \]

\[ 5 \frac{5}{8} \]

\[ 11 \frac{5}{16} \]

\[ \frac{1}{2} \text{ SCALE} \]

MODELS 15 AND 19 SETS WITH LABOR MODIFICATION OF MAIN DOOR

DRAWING NUMBER

527595-1

western union

A-9 JUN 67

527595

1