# 28 Typing Units

## Wiring Diagrams

### 1. General

1.01 This section shows the wiring of the 28 type typing units. It is reissued to update engineering information and to change format. See chart below for units (and their codes).

1.02 Notes on the wiring diagrams explain symbols used and point out special conditions. These diagrams show the origin and termination of the various leads as well as the color coding of the leads for each of the components.

### 2. Wiring Diagram Index (Attachments)

<table>
<thead>
<tr>
<th>TITLE</th>
<th>DIAGRAM NUMBER</th>
<th>SHEET NO.</th>
<th>WD ISSUE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Typing Units LP15/AR (Bell 28D), LP28/AES (Bell 28B-2), LP31/AX (Bell 28B-1), LP96/AR (Bell 28AJ)</td>
<td>3214WD</td>
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<td>Typing Units LP19/AN (Bell 28E)</td>
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<td>Typing Units LP41/AEG (Bell 28J), LP47/AEG (Bell 28J-1)</td>
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<td>Typing Units LP49/AED (Bell 28H), LP49/AFA (Bell 28H-1), LP49/AFB (Bell 28H-2)</td>
<td>3318WD</td>
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<td>Typing Units LP49/AFC (Bell 28K)</td>
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<td>Typing Units LP49/AFG (Bell 28L)</td>
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<td>Typing Units LP80/AGP (Bell 28LD), LP81/AGP (Bell LE), LP82/AGQ (Bell 28LB), LP82/AGR (Bell 28LC), LP100/AHL (Bell 28LF)</td>
<td>4228WD</td>
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<td>Typing Units LP92/AHD (Bell 28S)</td>
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<td>Typing Unit LP93/AHE (Bell 28AA)</td>
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<td>Typing Units LP86/AGX (Bell 28B), LP87/AGY (Bell 28C), LP88/AGZ (Bell 28F), LP89/AHA (Bell 28G), LP90/AHB (Bell 28U), LP91/AHC (Bell 28W), LP95/AHB (Bell 28AG), LP97/AHB (Bell 28AE), LP102/AHB (Bell 28AH), LP122/AGX (Bell 28AP)</td>
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<td>Typing Units LP106/AHR (Bell 28AD), LP106/AHS (Bell 28AB), LP107/AHU (Bell 28AC)</td>
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<td>Typing Units LP115/AJR (Bell 28AN)</td>
<td>6487WD</td>
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## TABLE

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<tr>
<td>Typing Units LP118/AJM (Bell 28AF), LP119/AJN (Bell 28AK), LP120/AJP (Bell 28AL)</td>
<td>7020WD</td>
<td>CTRL</td>
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<td>Typing Units LP126/AJY (Bell 28AT), LP127/AJZ (Bell 28AU), LP137/AJQ (Bell 28AM)</td>
<td>7021WD</td>
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<td>Typing Unit LP129/AUH (Bell 28AR), LP133/AKA (Bell 28BE)</td>
<td>7763WD</td>
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</tbody>
</table>
WIRING CHANNELS DESIGNATED BY "B" AND "C" DO NOT REPRESENT CABLES, BUT ASSIST IN TRACING CONNECTIONS.

1. BY "B" AND "C" DO NOT REPRESENT CABLES, BUT ASSIST IN TRACING CONNECTIONS.

2. "D"-DISTANT TERMINATING AREA.
"W"-WIRING DESIGNATION
"F"-DISTANT TERMINATING DESIGNATION
"R"-WIRE COLOR CODE

3. POWER CIRCUITS WIRED FOR 115V-60 A.C. OR 115V D.C.
OPERATION SEE NOTE 5

4. ASSOCIATED LESU MUST BE EQUIPPED WITH AC-DC CONVERSION ASSEMBLY FOR DC OPERATION OF SIGNAL BELL CONTACTS.
152021 FOR LESU 5 LEFT
152624 FOR LESU 7 RIGHT

5. CONNECTORS VIEWED FROM SOLDERED TERMINAL ENDS.

6. THIS CABLE IS FURNISHED WITH STUNT BOX.

7. THIS CABLE IS FURNISHED WITH STUNT BOX.

8. NORMALLY OPEN CONTACT
NORMALLY CLOSED CONTACT

9. ACTUAL WIRING DIAGRAM
MODEL 28

10. TYING UNIT
LP:9.32, 82.71, 99
STUNT BOX
APR: AEC, AFD, AG

11. APPROVALS

12. TELETYPE CORPORATION

13. DO AND WH

14. E OF W

15. PROD. NO. 3215 WD

16. DATE 12-1-56

17. PD. FILE NO. 45-30.65 AA

18. DRAWN R.B. CHKD R.D.

19. ENSD V.C. APPD O.A.L.
1. Wiring channels designated by "B" and "O" do not represent cables, but assist in tracing connections.

2. Channel legend:
   - Channel identification
   - Channel wire number
   - Wire color code

3. Power circuits wired for 115V-60AC or 115V DC operation see Note 6.

4. Color code:
   - BK - BLACK
   - W - WHITE
   - Y - YELLOW
   - O - ORANGE
   - BL - BLUE

5. Connectors viewed from soldered terminal ends.

6. Associated LESU must be equipped with AC-DC conversion assembly for DC operation.
   - 33226 for LESU 5
   - 33224 for LESU 7

7. This cable is furnished with stunt box.

8. Connectors:
   - Normally open contact
   - Normally closed contact
WIRING LEGEND

- DISTANT TERMINATING AREA
- DISTANT TERMINAL DESIGNATION
- WIRE COLOR CODE

COLOR CODE

- R - RED
- Y - YELLOW
- OR - ORANGE
- BR - BROWN
- BK - BLACK
- P - PURPLE
- BL - BLUE
- OR - ORANGE
- SL - SLATE
- GR - GREEN
- WH - WHITE

CONNECTOR VIEWED FROM SOLDERED TERMINAL END.

- INDICATES NUMBER OF SLOT IN STUNT BOX.

- NUMBERS INDICATED (1) ARE FOR LEAD IDENTIFICATION ONLY AND ARE NOT NECESSARILY STAMPED ON COMPONENTS.

- NORMALLY OPEN CONTACT
- NORMALLY CLOSED CONTACT

NOTE 1.

WIRING LEGEND

- DISTANT TERMINATING AREA
- DISTANT TERMINAL DESIGNATION
- WIRE COLOR CODE

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- NORMALLY OPEN CONTACT
- NORMALLY CLOSED CONTACT

NOTE 1.
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**NOTES**

- TC 6211 (1-66)
- SEE ROUTINE 05
- SUPPORTING INFORMATION
  - CATEGORY NO.
  - CONTENTS

**ISSUE CONTROL RECORD**

- ISSUE NO.
- CHANGE DATE
- ISSUE ADJUSTMENT

**SUPPORTING CONTENTS INFORMATION**

- ISSUE
- SHEET
- CONTROL RECORD

**ACTUAL WIRING DIAGRAM**

- FOR MODEL 28 TELETYPING UNIT
- UNIT: 1, 2, 3, 4, 5, 6, 7, 8, 9

**TELETYPING CORPORATION**

- WO NUMBER 7020WD
- DRAWN C.J. R.
- ENDED D.A.K.
- APPL...
WIRING LEGEND:
- DISTANT TERMINATING AREA
- DISTANT TERMINATING DESIGNATION

WIRE COLOR CODE
- RED
- BL-BLUE
- Y-YELLOW
- O-OANGE
- GR-GREEN
- BR-BROWN
- W-WHITE

NOTE: REVISION INFORMATION MUST ALSO BE REFLECTED ON THE ISSUE CONTROL RECORD, WHICH IS A PART OF THIS DRAWING.

REVISIONS

NOTE: REVISION INFORMATION MUST ALSO BE REFLECTED ON THE ISSUE CONTROL RECORD, WHICH IS A PART OF THIS DRAWING.

ASSOCIATED CABLES:
152488, 190510, 199816

LP110 E/N VERT. TAB. ONLY WIRE CONTACTS DIRECTLY TO R12 & R13.
LP120 E/N VERT. TAB. AND HORZ. TAB. SPLICE BK WIRE OF V.T. CONTACTS TO BK WIRE OF H.T. CONTACTS. WIRE 4 WIRE OF V.T. CONTACTS TO R12 AND R WIRE OF H.T. CONTACTS TO R12.

NOTE: REVISION INFORMATION MUST ALSO BE REFLECTED ON THE ISSUE CONTROL RECORD, WHICH IS A PART OF THIS DRAWING.

APPROVALS

TELETYPE CORPORATION

TELETYPE CORPORATION
**LEGEND:**

- DISTANT TERMINATING AREA
- DISTANT TERMINATING DESIGNATION
- A-1-W-BK

**COLOR CODE:**

- R-RED
- S-SLATE
- BL-BLUE
- BK-BLACK
- Y-YELLOW
- B-BROWN
- G-GREEN
- P-PURPLE
- W-WHITE

**CONNECTIONS VIEWED FROM SOLDER TERMINAL END:**

- CONTACT ARM
- Slot No.

**STUNT BOX:**

- Contact Arm Slot
- Terminal Designation Enclosed in Parentheses Are for Reference and Are Not Marked on Components.

**ASSOCIATED CABLES:**

- 152468 Cable Assembly
- 158318 Cable Assembly
- 161082 Cable Assembly
- 195916 Cable Assembly (LPI33 ONLY)

**CONTACTS VIEWED FROM SOLDER TERMINAL ENDS:**

- Contacts Shown in Unoperated or De-Energized Position.

**INDICATES SLOT POSITION, TOP FIGURES FOR LPI33 AKA LPI29/AUH, LOWER FIGURES FOR LPI29/AUH FOR ASSOCIATED SCHEMATIC SEE 7762 WD.**

**AREA P AND WIRING TO CONNECTOR R PRESENT ON LP133 ONLY.**

**PRINT SUPPRESSION MAGNET**

**TYPING UNIT CONNECTOR (PLUG)**

**TELETYPewriter CORPORATION**

**TELETYPE CORPORATION**