

BELL SYSTEM PRACTICES
Teletypewriter and Manual
Telegraph Station and P.B.X.
Installation and Maintenance

SECTION P40.101
Issue 1, March, 1938
AT&T Co. Standard

NO. 26 TELETYPEWRITER

DESCRIPTION OF APPARATUS

1. GENERAL

- 1.01 This section describes the No. 26 teletypewriter apparatus and accessories arranged for use with it.
- 1.02 The more important features of the No. 26 teletypewriter are as follows:
 1. It is a page type teletypewriter provided with a moving paper carriage.
 2. The types are carried on a type wheel and a small hammer drives the selected type pallet against the paper.
 3. It is arranged for 8-1/2" width paper only.
 4. The maximum number of characters per line is fixed at 72.
 5. No provision is made for sprocket feed nor for tabulator nor for more than one carbon copy.
 6. It is arranged for operation at 368 operations per minute only and is provided with synchronous motor for use in regulated 60-cycle a-c areas or with d-c motor for d-c areas.
 7. Machines are available for either direct keyboard sending and receiving or for receiving only.
 8. It is provided with black "wrinkled" finish only.

2. CODING OF INDIVIDUAL UNITS

2.01 **Typing units** are coded as follows:

Code Designation	Type Characters	Type of Motor
26A TELETYPE-WRITER TYPING UNIT*	Arrangement A	Synchronous
26B TELETYPE-WRITER TYPING UNIT*	Arrangement C	Synchronous
26C TELETYPE-WRITER TYPING UNIT*	Arrangement A	D-C Governed
26D TELETYPE-WRITER TYPING UNIT*	Arrangement C	D-C Governed

*Includes motor.

2.02 **Bases, covers and copyholders** are coded as follows:

Code Designation	Type Characters	Remarks
26A TELETYPE-WRITER BASE*	Arrangement C	Sending-Receiving. Equipped with "break key" but no power switch.
26B TELETYPE-WRITER BASE*	Arrangement A	Sending-Receiving. Equipped with "break key" but no power switch.
26C TELETYPE-WRITER BASE*		Receiving only. No power switch.
26A TELETYPE-WRITER COVER		Overall cover. (Includes a small front copyholder but does not include paper bracket parts.)
26A TELETYPE-WRITER COPYHOLDER		Offset copyholder for above cover.

*Combined keyboard and base.

2.03 **Tables and table doors** are coded as follows:

Code Designation	Remarks
26A TELETYPE-WRITER TABLE	Table for general use where only a small amount of accessory equipment is to be mounted. Does not include paper roll mechanism or front panel.

Code Designation	Remarks
26B TELETYPE-WRITER TABLE	Table for use where the larger subscriber sets or other accessory equipment not easily accommodated by the 26A table is required. Does not include paper roll holder or front panel.
26A TELETYPE-WRITER TABLE DOOR*	Front panel and paper roll holder for use on 26A table where interior paper roll mechanism is desired.
26B TELETYPE-WRITER TABLE DOOR*	Front panel and paper roll holder similar to 26A door, but for use with 26B table.

*See Item (Q) under Part 3.

3. ACCESSORY APPARATUS

3.01 Accessory apparatus for use with the No. 26 teletypewriter is described in the following items.

(A) Paper Handling Arrangements

Code Designation	Remarks
91908M SMALL PAPER ROLL HOLDER	A small metal rack designed to mount on the paper carriage inside of the cover. It will carry a small roll of 8-1/2" paper about 50' in length.
90968M PAPER BRACKET PARTS	A paper roll bracket, a paper roll spindle and a drag rod with brake, mounts on the rear of the cover. Accommodates a normal paper roll. Includes the 90969M Paper Chute. Designed primarily for use when No. 26TTY is mounted on customer's own table.
90969M PAPER CHUTE	Attaches to the paper carriage of the typing unit and is required in all cases where paper is supplied from an external roll or other source outside of the teletypewriter cover. (Included in the 90968M Paper Bracket Parts.)
PAPER GUIDE PER ED-70278-01, G3	A wire loop which attaches to the drag rod. Used when multiple copy paper is fed from the paper bracket on the back of the cover or from the table door.

Code Designation (B) Break Lock	Remarks
90989M SET OF PARTS FOR BREAK LOCK	Includes a single contact for short circuiting the keyboard on the receipt of a "break" or all spacing signal combination. When operated, the contact will be mechanically locked in its closed position until the "letters" key of the keyboard is depressed to release it. (See 93766M Terminal Block Assembly.)
(C) Trans-Dist Control Contacts	
91909M TRANS-MITTER-DISTRIBUTOR CONTROL CONTACTS	A set of "break" contacts which may be added to the break lock assembly just described, for controlling a transmitter-distributor where required. Not usable without the break lock assembly and its contacts are locked and unlocked by the same mechanical means as the regular break lock contacts. (See 93766M Terminal Block Assembly.)
(D) Remote Signal Bell Contacts	
91911M REMOTE SIGNAL BELL CONTACTS	May be wired to an external bell where a louder bell is required on upper case S. (See 93766M Terminal Block Assembly.)
(E) Stop Contact Parts	
93725M SET OF STOP CONTACT PARTS	Provides for operating a "break" contact and a "make" contact on receipt of an upper case H signal. Includes a function arm which must be installed to replace the break lock function arm. The stop contacts are operated momentarily only and do not lock mechanically. May be installed on same machine with signal bell or where remote bell is used but not with the break lock parts. (See 93766M Terminal Block Assembly.)
91722M SET OF STOP CONTACT PARTS	Provides for operating "break-make" contacts on receipt of upper case H signal. Includes a function arm to replace the signal bell function arm. The contacts operate momentarily and do not lock. May be installed on same machine with break lock but not with signal bell. (See 93766M Terminal Block Assembly.)

Code Designation**Remarks****(F) Terminal Block Assembly****93766M TER-
MINAL BLOCK
ASSEMBLY**

Provides for six terminals, mounts on the typing unit and makes contact with a block on the base when the typing unit is put in place. Required when break lock contacts, remote bell contacts, or motor control contacts are added to a machine. When this block is added for one set of contacts it thereafter serves for the others also.

(G) Line Relay Mounting**90964M LINE
RELAY
MOUNTING
ASSEMBLY**

Includes an 18B connecting block for accommodating a 215A or 209FB line relay together with a mounting bracket, resistances, condenser, connecting block and wiring required for relay operation with the relay mounted on the teletypewriter base inside of the cover. The relay itself is not included.

(H) Control Relay Assembly**93156M CONTROL
RELAY
ASSEMBLY**

Includes a control relay, a resistor, connecting block and bracket for mounting on the base for remote motor control over a separate wire or for polar control over the signaling wire when using a 206AH polar relay. The control relay parts mount on the base in the same position as used for the line relay bracket and cannot be used when the line relay is provided in the machine. The control relay assembly is suitable only for controlling a-c motors and should not be used where the power supply is d-c.

(I) Sub-Base Plate**93199M SUB-BASE
PLATE
ASSEMBLY**

For attaching to the base when the machine is to be used on a table other than the 26A or 26B table. Is provided with rubber feet and cushion mountings. The cushion mountings regularly on the base and the base plate regularly supplied should be removed when using the sub-base plate.

Code Designation	Remarks
(J) Power Switch	
93197M POWER SWITCH PARTS FOR SENDING-RECEIVING BASE	Provides the switch and accessories required to add a power switch to a 26A or 26B base.
93198M POWER SWITCH PARTS FOR RECEIVING BASE	Provides the switch and accessories required when the power switch is to be added to the 26C base.
(K) Type Pallets	
93726M SET OF PARTS	Type pallets required to change typing units from type arrangement "A" to type arrangement "C" together with a function arm to suppress typing on upper case "H." (For changing 26A or 26C typing units to 26B or 26D, respectively. Does not include any key caps for changes required in the keyboard.)
93727M SET OF PARTS	Type pallets required to change typing units from type arrangement "C" to type arrangement "A" together with a function arm to provide for typing on upper case "H." (For changing 26B or 26D typing units to 26A or 26C, respectively. Does not include any key caps for changes required in the keyboard.)
(L) Paper Clip on Copy Holder	
93741M PAPER CLIP PARTS	May be used in place of the paper retainer of the teletypewriter cover to provide for holding shorter sheets. Consists of a retainer provided with a wire loop extending downward.
(M) Station Line Resistance	
93073M RESISTOR ASSEMBLY	Consists of the Western Electric 119A resistance (100-200-400-800 ohms) and mounting details for mounting in the teletypewriter.
(N) Local Test Circuit	
151A1 RESISTANCE UNIT	Provides the resistances required for a local test circuit where this is desired.

Code Designation**Remarks****(O) Tools**

- 81088M SET OF TOOLS Provides the extra tools required for the maintenance of the 26 teletypewriter. All of the other regular tools are also required.
- 93724M SET OF CARRYING HANDLE PARTS A set of parts consisting of two straps and a metal frame to serve as a handle for conveniently carrying a teletypewriter with its cover.

(P) Packages of Spare Parts

- 26A PACKAGE OF TELETYPE-WRITER PARTS A large package of replacement parts for shop or storeroom.
- 26B PACKAGE OF TELETYPE-WRITER PARTS A small package of replacement parts for an individual repairman for use until experience has indicated the proper parts to be carried for replacement purposes.

(Q) Teletypewriter Doors

- TELETYPE-WRITER DOOR PER ED-70277-01, GROUP 3 A door without the paper roll holder, for the 26A teletypewriter table.
- TELETYPE-WRITER DOOR PER ED-70277-01, GROUP 4 A door without the paper roll holder, for the 26B teletypewriter table.

(R) Rectifier Mountings

- RECTIFIER BRACKETS PER ED-70278-01, GROUP 1 Brackets to mount a rectifier on the back of the table either inside or outside.

4. ASSEMBLY INFORMATION

- 4.01 Following are general suggestions for assembling the 26 teletypewriter apparatus.
1. After the TTY is placed on the table check to see that the rubber feet and cushion mountings are positioned correctly with respect to the holes in the table.

2. The butts of cords to terminals 11 to 26 when clamped in position shall be opposite the space between the 11-16 and 21-26 connecting blocks. These cords should be placed under the clip at the rear of the TTY to prevent interference with the TTY cover.
3. The cords should be arranged under the cord clamp in the order of increasing size.
4. When the TTY door is furnished, cords from TTY to equipment units in the table should be secured behind the hook on rear of right door cleat to prevent possible interference with paper feed.
5. For external paper feeding the cord supporting the left end of drag rod should normally be attached to the brake in the third position from paper spindle. When less break tension is required, use first or second hole from spindle and when greater tension is necessary, use the hole farthest from the spindle.
6. When line relay unit is used, cords to line relay unit should be clamped in position with sufficient slack at the butt end to prevent strain on the individual conductors.