

19 TELETYPEWRITER SETS

DESCRIPTION

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1. GENERAL

1.01 This section gives descriptive information on the 19 teletypewriter sets, which are a combination of units of 14 and 15 teletypewriter apparatus combined to provide automatic transmission. Code numbers are not assigned complete assemblies of such apparatus since the wide range of features provided by the components would make such an arrangement impractical. The individual units must, therefore, be ordered in accordance with the features for which they are coded in order that the entire assembly will provide the desired service.

1.02 This section is reissued to bring the information up to date and to add references to other applicable sections. Changes in this issue are so extensive that the marginal arrows ordinarily used to indicate changes have been omitted.

1.03 To indicate the color of the finish, Bell System codes use a number suffix. These numbers, together with the corresponding letter suffix used with Teletype Corporation codes, are shown in the table below.

<u>Finish</u>	<u>Bell System Suffix</u>	<u>Teletype Corp. Suffix</u>
Black Gloss	34	BA
Walnut Grain	35	CA
Mahogany Grain	36	CB
Black Wrinkle	37	AA
Dark Brown Wrinkle	38	AD
Light Brown Wrinkle	39	AC
Gray-Green Wrinkle	40	AB

For example, 119B40 and XRT204AB are Bell System and Teletype Corporation codes, respectively, for tables with a gray-green wrinkle finish.

2. UNITS MAKING UP THE SET

2.01 The units comprising the set are as follows:

19A, 119B, XRT205, or XRT206 Teletypewriter Table

14 Transmitter-Distributor

15 Teletypewriter Base

15 Typing Unit

15 Motor Unit

15 Set of Gears

15 Perforator-Transmitter

15 Teletypewriter Cover

14 or 15 Copyholder

Rectifier (on individual sets in ac areas)

Door for Rear of Table (when required)

Teletypewriter Subscriber Sets (when required)

2.02 Fig. 1 is a photograph of a typical 19 teletypewriter set.

3. TELETYPEWRITER TABLES

3.01 The 19A teletypewriter table, a mahogany-walnut finished wooden table 36 inches long by 23 inches deep by 26-1/2 inches high, is designed to mount the component parts for a 19 teletypewriter set, and is equipped with a 14C transmitter-distributor mounting plate.

3.02 The 119B (Teletype code XRT204) teletypewriter table is a metal table with rounded edges similar to the 19A table. It is 38 inches long by 23 inches deep by 26-1/8 inches high; is designed to mount a transmitter-distributor similar to the 14W, which is equipped with a Jones plug; and is provided with vibration mounts and a tape-storage magazine. This table is generally used at 81 switching system centers.

3.03 The XRT205 and XRT206 teletypewriter tables are metal tables similar to the 19A table and differ from each other in that the XRT206 table is provided with vibration mounts.

3.04 On the table top, the mounting plate provided for the transmitter-distributor rests on a felt pad to reduce noise. A pad is also provided in the right half of the top for accommodating the 15 teletypewriter base. Felt pads should be ordered separately for the 119B table. The table is wired at the factory or Distributing House prior to delivery. In the enclosed space at the rear are mounted the necessary terminals and fittings for bringing in line and power connections. The rectifier mounts in the rear compartment. A power switch is provided in the middle of the top of 19A and 119B tables between the typing unit and the transmitter-distributor and underneath the left front edge of the table top for the XRT205 and XRT206 tables. This switch controls the power to the entire table, including the rectifier, except in certain subscriber set arrangements. For these latter arrangements see Sections P30.752 and P30.753.

3.05 Doors may be obtained for the opening at the rear of the tables in cases where the rear is visible and good appearance is important. For the 19A teletypewriter table there is a metal, mesh, rear door per ED-61241-01, Group 1. Doors coded 119A and 119B are available for use on 119B teletypewriter tables, the former for use on installations at which friction paper feed is used, and the latter for use when super-fold paper is used. TP106985 rear door assembly is for use on XRT205 and XRT206 tables.

3.06 The following cords, which are not supplied with the table, are required for use with it:

One M4K cord

One M2CN cord equipped with a 347B plug (black shell)

One M2CN cord equipped with a 347A plug (red shell)

One M3AY cord equipped with 7055 Hubbell cap

4. 14 TRANSMITTER-DISTRIBUTORS

4.01 The Bell System codes and a detailed description of 14 transmitter-distributors are given in Section P35.102.

5. 15 PERFORATOR-TRANSMITTERS

5.01 The 15 perforator-transmitter provides for direct keyboard sending, tape perforating, or combined direct keyboard sending and tape perforating, as desired. A three-

position keylever mounted at the right of the unit controls the selection of these features. The perforator-transmitter slides into the teletypewriter base in the same manner as the keyboard. The direct keyboard sending mechanism is essentially the same as that of the 15 keyboard. The magnet-operated perforating mechanism projects somewhat from the left-hand end of the unit.

5.02 The perforator-transmitter is provided with a line-test key and a local circuit resistance which permit: (1) local testing of the equipment, (2) off-line use by the customer, and (3) practice by the customer. An indicator, for recording the number of characters as they are perforated for each line, is mounted at the right- or left-hand side of the unit. This indicator consists of a pointer which rotates above a numbered dial, together with a lamp which is normally lighted after the sixty-fifth character and remains lighted until the carriage return key is depressed. The indicator operates when the unit is in tape position.

5.03 A backspace lever is located over the punch magnet for use in backspacing the perforated tape to correct errors. Backspacing the tape does not backspace the indicator.

5.04 The Bell System codes and a detailed description of 15 perforator-transmitters are given in Section P36.101.

6. 15 TELETYPEWRITER COVERS

6.01 The 15M cover is arranged to cover the typing unit and the perforator-transmitter. A reel to hold the perforator tape is attached to the left-hand side of the cover. A hinged door in the cover, over the punch magnet, permits inserting tape. The cover is padded for noise reduction and is drilled for mounting either of the present standard 14A or 15A copyholders.

6.02 A 15S teletypewriter cover, which is seldom used, is available for use with the 15M perforator-transmitter which has the line indicator mounted on the left. The 15S teletypewriter cover requires a 15E copyholder.

6.03 More detailed information concerning teletypewriter covers is given in Section P36.101.

7. RECTIFIERS

7.01 In alternating-current areas, a rectifier will be required.

7.02 The Bell System codes and a detailed description of rectifiers are given in P31.101.

8. PACKAGE OF SPARE PARTS FOR PERFORATOR-TRANSMITTER

8.01 The TP81052 package of spare parts includes parts special to the 15 perforator-transmitter in quantity suitable for maintaining one or two units. Parts common to the regular 15 keyboard are not included.

9. ADDITIONAL FEATURES FOR TWX SERVICE

9.01 Information on certain additional features which must be provided when a 19 set is used in TWX service is given in Sections P30.656 and P30.659.

10. TELETYPEWRITER SUBSCRIBER SETS

10.01 Subscriber sets for use with the 19 teletypewriter set are described in various Bell System Practices listed in Part 11 of this Section.

11. LIST OF ASSOCIATED BELL SYSTEM PRACTICES

11.01 The following Bell System Practices contain information applicable to the 19 teletypewriter set.

<u>BSP</u>	<u>Section</u>
Station Assembly—19A Teletypewriter Table	P30.656
Station Assembly—XRT205 and XRT206 Teletypewriter Tables	P30.659
19 Teletypewriter Set—Remote Control of Typing Unit Only—Private Line Stations	P30.752
Modification of 126A2 Subscriber Set—19A Table	P30.753
Rectifiers for Teletypewriter Apparatus	P31.101
No. 126 Teletypewriter Subscriber Set	P31.226
120C1 and 120C2 Teletypewriter Subscriber Sets for Unattended Service	P31.231
128C1, 128C2 and 128C3 Teletypewriter Subscriber Sets	P31.232
Teletypewriter Station Set with 43A1 Carrier Terminal (130B1 TTY Subscriber Set)	P31.234
128B2 Teletypewriter Subscriber Set	P31.240
120D1 Teletypewriter Subscriber Set	P31.241
14-type Transmitter-Distributor—List of Units and Auxiliary Features	P35.102
15 Teletypewriter—List of Units and Auxiliary Features	P36.101



Fig. 1-19 Teletypewriter Set—Front View