

GENERAL DESCRIPTION
TELETYPE MODEL 19 SET

MULTI-VOLTAGE MULTI-FREQUENCY OPERATION

Component Units and Accessories

Model 15 page printer with perforator transmitter keyboard and switching arrangement for
(1) direct keyboard transmission only, or
(2) tape perforation only, or
(3) simultaneous direct keyboard transmission and tape perforation,

consisting of:

Typing unit
Base, complete with cords and plugs
Motor unit (50-60 cycle governed)
Set of gears
Perforator transmitter keyboard
Line relay
Cover
Copyholder

Model 14 transmitter distributor with 50-60 cycle governed motor

Metal table, complete with felt pad, slip connection base for quick removal and installation of the transmitter distributor, switching key, and electrical receptacles, wired for convenient connection to power sources and signal line.

Speed indicator (tuning fork) for setting motor speed.

Rectifier, complete with cords and plugs for mounting on table shelf, to supply direct current for perforating magnets, line relay biasing windings and local circuits of printer (and re-perforator if used) and for adjusting motor power voltages to correct values.

(Used at alternating current stations)

Paper supply box, for mounting on rear of table to hold continuous superfold forms.

(Used only with sprocket feed printers)

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A Model 14 reperforator, mounted on a low auxiliary table, may be installed under the Model 19 table at front left. The Model 19 table includes electrical receptacles and wiring for the power, local direct current and signal circuits of the reperforator, and a control button for automatically feeding blank tape out of the reperforator. The addition of reperforating facilities involves the following items:

Model 14 reperforator consisting of:

- Reperforator unit, complete with cords and plugs
- Motor unit (50-60 cycle governed)
- Set of gears
- Line relay
- Cover

Auxiliary table, complete with felt pad, casters and latch for attachment to Model 19 table.

General Features

Model 19 sets may be arranged for use on ordinary message communication circuits or weather report circuits.

For ordinary message communication service the "upper case" (or "figures") positions of the type on the printer and the keys on the perforator transmitter keyboard carry the ten digits and customary abbreviation and punctuation marks. The printer is adjusted to print 72 characters per line. An automatic remote motor control feature may be provided whereby the motors of all printers on the circuit may be started by momentarily opening the signal line and stopped by transmitting the "upper case H" signal combination from the keyboard at any station.

NOTE: The "upper case H" signal combination should not be perforated or reperforated in tape, as tape transmission of this combination normally results in improper operation unless extra precautions are taken to insure that it is the last combination transmitted. The "Start" (spacing) impulse of any subsequent combination (including "H") transmitted from the transmitter distributor merely serves to start the printer motors again, and the momentary fluctuation of motor speed results in loss of receiver synchronism.

For weather report service, the "upper case" (or "figures") positions of the printing type and keyboard keys carry the ten digits and necessary weather symbols. The printer is arranged to print and space on the "upper case blank" combination, and suppresses printing and spacing on "lower case blank." The "carriage return" and "line feed" functions are effective in the "lower case" (or "letters") position only. The printer is adjusted to print 76 characters per line. The feature of automatic remote motor control over the signal line is not applicable to weather report printers, since all upper case character positions have been assigned to figures or symbols which are indispensable to weather report service.

Model 15 printers are normally equipped with friction feed platen arrangements for single copy printing. Paper may be fed from a continuous roll approximately five inches in diameter supported at the rear of typing unit, inside the cover.

For multiple copy printing or accurate registration on forms, Model 15 printers may be equipped with sprocket feed platen arrangements. Continuous superfold paper forms with perforated edges may be fed from a paper box mounted on the rear of the table.

When the perforator transmitter keyboard is used for tape perforation only, an end-of-line warning lamp lights when the number of characters perforated in a given line approaches the maximum number which will print on the printers.

Power Arrangements

The REC-30 rectifier is equipped with multi-voltage, multi-frequency connecting taps which permit printers, transmitter-distributors and reperforators driven by 50-60 cycle series governed motors to be operated on alternating current power supplies of approximately 95 to 125 or 190 to 250 volts, 25, 40, 50 or 60 cycles. The direct current output of this rectifier is suitable for signal line battery as well as local battery. Since this rectifier is to be generally used with series wound motors, no provision has been made for power factor correction.

60 CYCLE SYNCHRONOUS MOTOR OPERATION

When 60 cycle synchronous motors are used, the REC-13 rectifier (rated for 60 cycles only) may be used for providing direct current suitable for either local or signal line battery. The REC-13 rectifier includes power factor correction which is advantageous on synchronous motor applications.

INFORMATION ON EARLIER TYPES

This section has been added to the manual to include specifications and wiring diagrams covering earlier types of Model 19 sets previously furnished and likely to be encountered in field service.