

35 TRANSMITTER-DISTRIBUTOR SETS

DESCRIPTION

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1. GENERAL

1.01 The 35 Transmitter-Distributor Sets are electromechanical devices which read intelligence from code combinations perforated in a 1-inch, 8-level tape and translate them into electrical impulses for transmission over a signal line. The tape may be either chadless or fully perforated.

1.02 Three sets are described herein. Each is a complete self-contained set providing its own motive power requiring a 115-volt power line and a signal line, each of which must be brought in and wired into furnished connectors or terminal blocks when installation is made. See Figure 1 for typical set.

2. COMPONENTS

2.01 A complete set consists of a base unit, a one-piece cover, a motor, and a transmitter-distributor unit. On each set, a power switch is provided through the top of the cover for convenience in switching motor power on or off. The motor power is directed through a slow-blow fuse. Each transmitter-distributor unit is provided with a three-position control switch which can be positioned for RUN, STOP, and FREE wheeling. The free wheeling position is one in which, in addition to stopping the unit, the feed wheel is set free so that tape may be moved forward or backward without raising the tape lid. A tape lid release button is provided to open the tape lid for inserting or removing tape from the transmitter. Each set is equipped with a line shunt switch to close the signal line when the

transmitter-distributor unit is removed from its base. Ground connections are provided in each set. Refer to Figure 2.

3. CHARACTERISTICS

3.01 The compact set is 12-11/16 inches long, 7-3/4 inches wide, 5-5/8 inches high, and weighs approximately 18-1/2 pounds. The larger standard sets (both single and multi-contact) use the same base pan and cover and therefore are the same size and differ only in weight. The single contact set weighs approximately 27 pounds. The multicontact set weighs approximately 28 pounds. These sets are 15-7/8 inches long, 9-7/8 inches wide, and 6-3/4 inches high.

3.02 The 35 Transmitter-Distributor Sets operate on an 11-bit code consisting of a one-bit start pulse, eight one-bit information pulses and a double-bit stop pulse. The information is read from the 8-level tape, translated to electrical impulses and transmitted sequentially over a signal line at a 60, 75, or 100 words per minute rate of speed depending on the set of gears used.

4. VARIABLE FEATURES

4.01 In addition to the standard features of the sets, provisions have been made for the installation of some variable features.

4.02 Where an installation requires the signal distortion be held to within +5%, a signal regenerator may be used on the single contact sets to transmit the signals with greater accuracy. It is mounted on the base beside the motor.

4.03 Where installations require that parallel output signals be transmitted in addition to sequential signals, code reading contacts may be added to some single-contact sets.

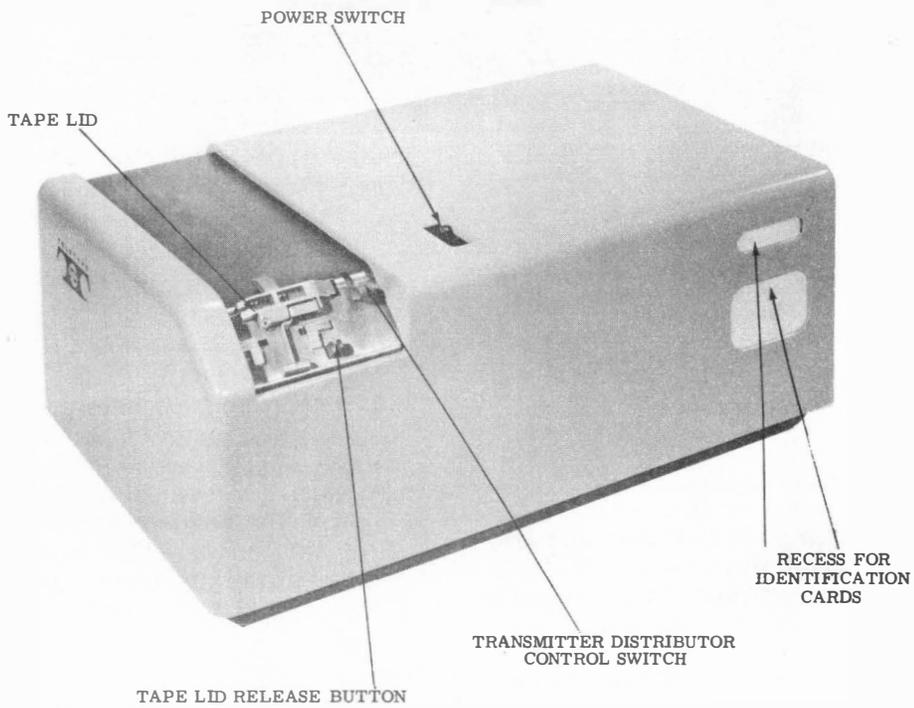


Figure 1 - 35 Transmitter Distributor Set

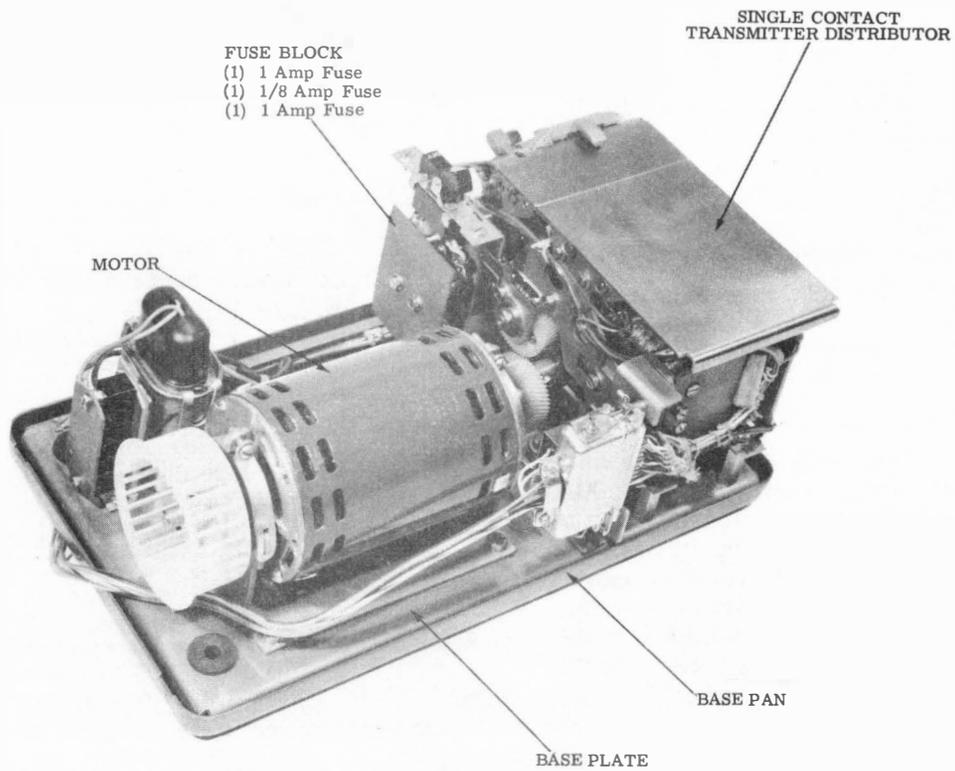


Figure 2 - Typical 35 Transmitter Distributor Set With Cover Removed

4.04 The multicontact sets have sensing and distributing mechanisms capable of being actuated independently of one another from either a local or remote source of power. A dc power unit is available for use in installations where a local dc power supply is required to operate either the transmitter or distributor clutch magnets. Provisions are made for mounting this power supply on the base of the set.

4.05 An electrical motor control unit is available for the multicontact sets in installations where it is desirable to stop or

start the motor from a remote source through the signal line.

4.06 A control relay assembly consisting of a magnet coil, relay and switch is available for the multicontact sets in installations where it is required to stop the motor with the end of tape. This unit is wired in with the tape-out contact circuit and, through its relay actuates a switch in the motor power circuit.