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AT&TCo Standard

28 TRANSMITTER DISTRIBUTOR BASES

(SINGLE MOUNTING AND MULTIPLE MOUNTING)

DESCRIPTION

CONTENTS PAGE

1. GENERAL

1.01 This section describes the Model 28 transmitter distributor bases which provide mounting facilities for the 28 single mounting and the 28 multiple mounting transmitter distributor sets. It describes four different bases. Because of many variations possible, the bases described and illustrated are typical.

2. DESCRIPTION

2.01 Four types of bases are described in this section. Two bases are designed as mountings for single unit transmitter distributors; one as a single contact, single shaft, transmitter distributor, and the other as a slightly larger multicontact transmitter distributor. A third base identified as a miniaturized model is used for mounting a single contact transmitter distributor and a miniaturized motor. A multiple base is designed for mounting three transmitter distributors. Each base also serves as a mounting for a motor or motor unit.

SINGLE CONTACT SINGLE MOUNTING TRANSMITTER DISTRIBUTOR BASES

2.02 The base for the single contact transmitter distributor (regular size) consists of two angle iron rails with cross plates that form a framework. The framework is fastened to a subbase (or oil pan on some models) by means of three vibration mounts which serve to reduce vibration (Figure 1).

2.03 Brackets are provided for mounting terminal blocks on which electrical connections are made. A guard is mounted above the location of the gears for protection.

2.04 A multiple connector is mounted at the left front of the base for interconnection with a mating connector on the transmitter distributor.

2.05 A line shunting switch is provided on most bases adjacent to the multiple connector for keeping the line circuit closed when the transmitter distributor is removed from the base. This switch is actuated by an adjusting screw on the transmitter distributor. When the transmitter distributor is placed on the base, the line circuit includes the transmitter distributor before the line shunting switch opens.

2.06 Terminal blocks and a power switch are mounted on brackets at the rear of the base where electrical connections are made.

2.07 The base provides a rigid mounting support for the transmitter distributor and a motor unit (Figure 2). An intermediate gear assembly is mounted between the motor unit position and the transmitter distributor unit position.

Prepared for American Telephone and Telegraph Company by Teletype Corporation

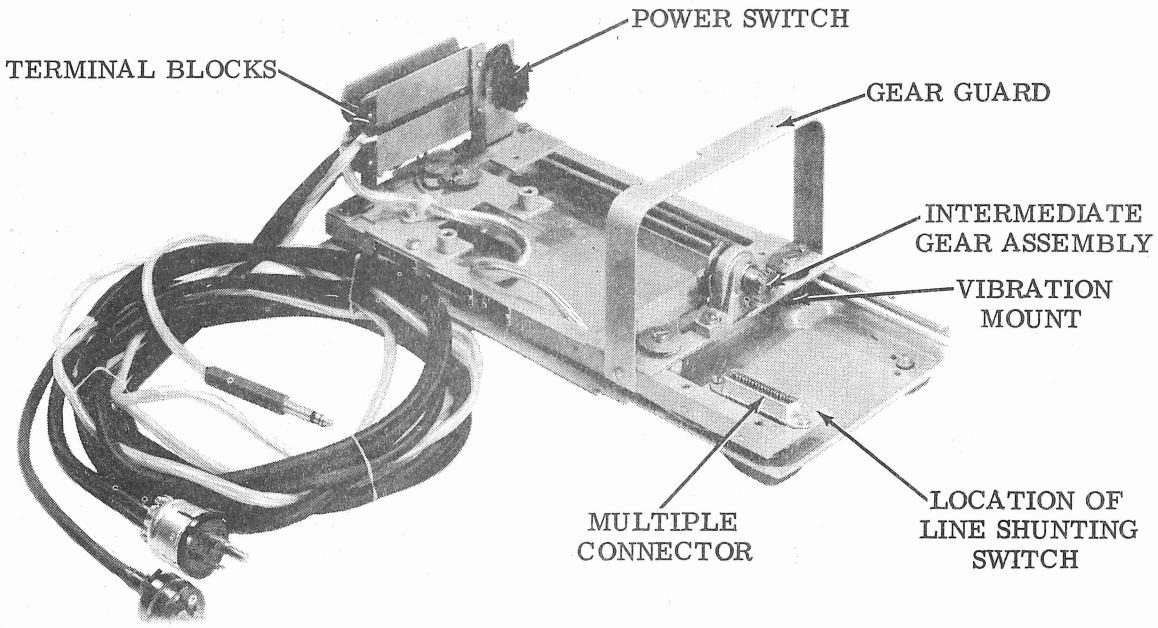

Figure 1 - Single Contact, Single Mounting Transmitter Distributor Base

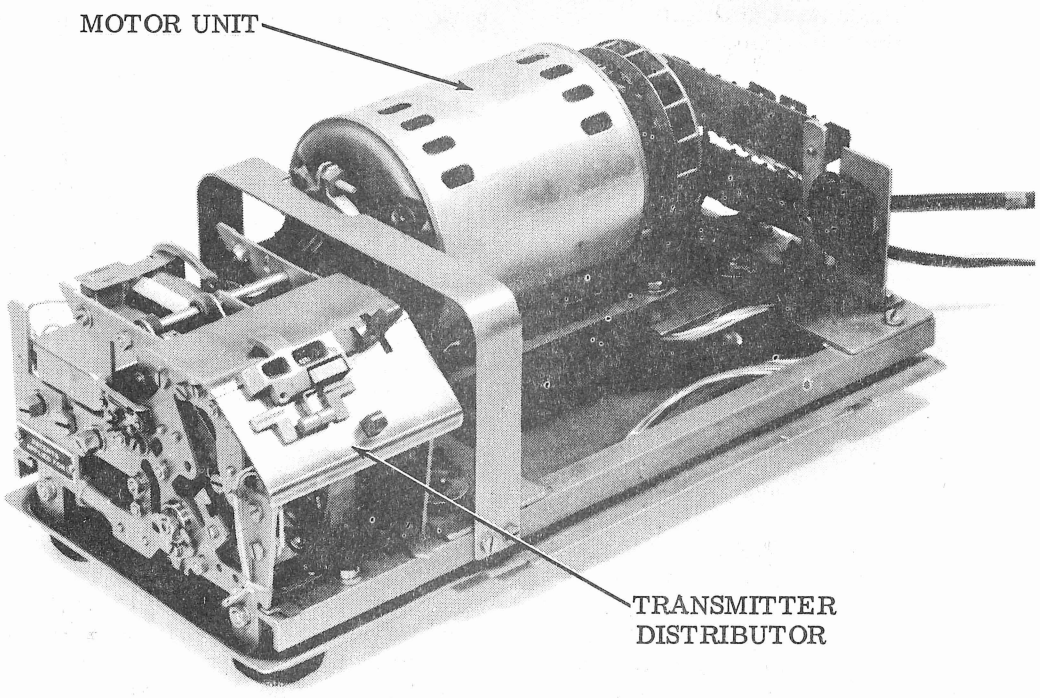

Figure 2 - Single Contact, Single Mounting Transmitter Distributor Base
(Transmitter Distributor and Motor Unit in Place)

2.08 The intermediate gear assembly transfers motion from the motor to the transmitter distributor. The speed is determined by the set of drive gears used on the motor shaft and its mating gear on the intermediate gear assembly.

MULTICONTACT SINGLE MOUNTING TRANSMITTER DISTRIBUTOR BASES

2.09 This multicontact transmitter distributor base is similar to the base previously described. The frame structure is built in two pieces. The top structure serves as a mounting for a motor unit and the transmitter distributor (Figure 3). The bottom structure serves as a mounting for the top structure. Two 24-point connectors are mounted at the rear of the bottom structure for electrical connection to external apparatus. Two 24-point mating connectors are mounted to the rear of the top structure as a terminal for internal electrical connections. The top structure may be moved forward to disconnect all electrical connections or backward to connect them (Figure 4).

2.10 A power switch is mounted to a bracket on the left side and is accessible through the cover.

2.11 Electrical connections between the base and the transmitter distributor are made through a cable or cables with a multiple connector or connectors, which mate with connectors mounted on the transmitter distributor. The interconnection varies somewhat with different models. Other internal connections are made at terminal blocks under the motor unit position.

MINIATURE BASES

2.12 This base is designated miniature because of its compactness (Figure 5). The mounting facilities for a transmitter distributor are virtually the same as those for the single contact transmitter distributor base. However, this base is much shorter and lighter since the motor used on it is small and requires very little space for mounting.

2.13 Brackets with terminal blocks are provided at the right rear part of the base for making electrical connections, both external and internal. A cable connects these terminal blocks to the multiple connector which mates with the transmitter distributor connector and the line shunting switch.

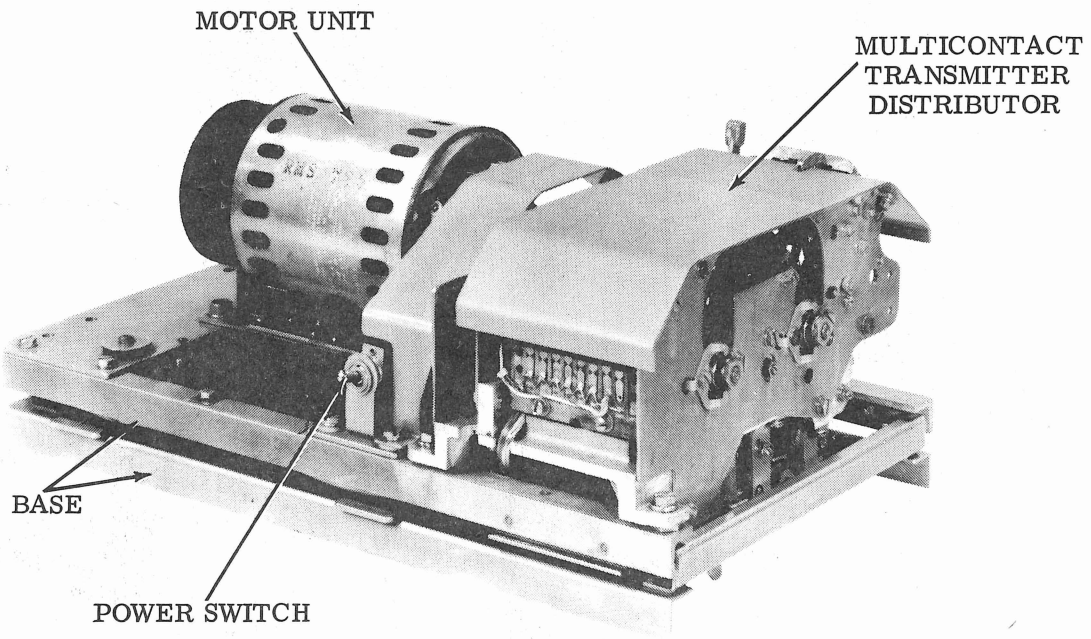

Figure 3 - Multicontact Single Mounting Transmitter Distributor Base (Transmitter Distributor and Motor Unit in Place)

2.14 The frame structure is fastened to a metal pan through three vibration mounts which absorb vibration from the motor and the transmitter distributor. Four rubber feet are mounted under the pan to prevent the set from marring the surface on which it sits.

2.15 A power switch is mounted on a bracket at the rear of the base and is accessible through the rear of the cover.

MULTIPLE MOUNTING BASES

A. General

2.16 The multiple mounting base is designed as a mounting for three transmitter distributors, a motor unit, drive shafting, and gears. There are two types of these bases, each with provisions for changing the driving speed of its associated transmitter distributors. One type is designed as a mounting for three single contact transmitter distributors (Figures 6 and 7). The other type is designed as a mounting for three multicontact transmitter distributors (Figures 8 and 9).

B. Bases for Single Contact Multiple Mounting Transmitter Distributors

2.17 The base, which serves as a mounting for three single contact transmitter distributors, is a one piece aluminum casting mounted by vibration mounts and brackets to a base pan. Brackets with terminal blocks are provided at the right rear portion of the base. These terminal blocks serve as a connecting point between external and internal electrical connections. Electrical cables lead from the terminal blocks to a multiple connector and a line shunting switch at each of the three transmitter distributor positions. Other cables lead to the motor and to a power switch located on a bracket at the front of the base.

2.18 A locking clamp is provided for locking each transmitter distributor in position on the base. A locating eccentric is also provided on the base as a means of fixing the adjustment position of the transmitter distributor.

2.19 A drive shaft across the front of the base is driven by the motor through a belt and a set of sprockets. Some bases have the speed

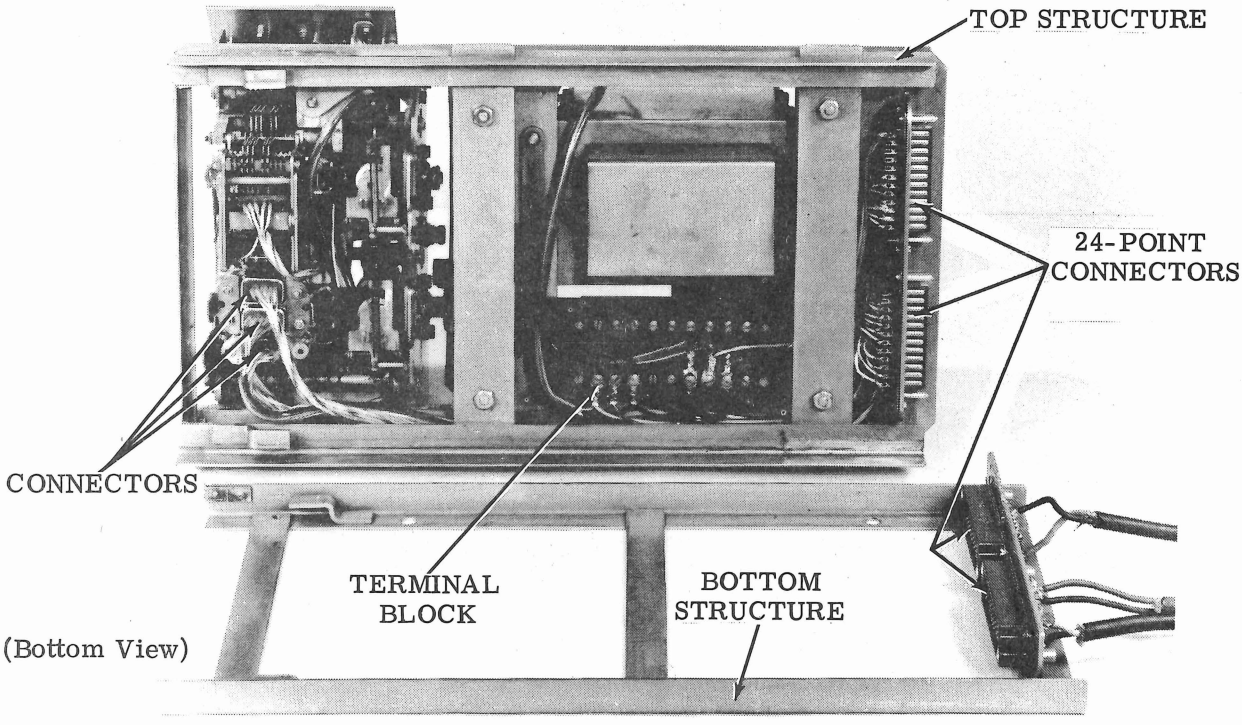

Figure 4 - Multicontact Single Mounting Transmitter Distributor Base (Transmitter Distributor and Motor Unit in Place)

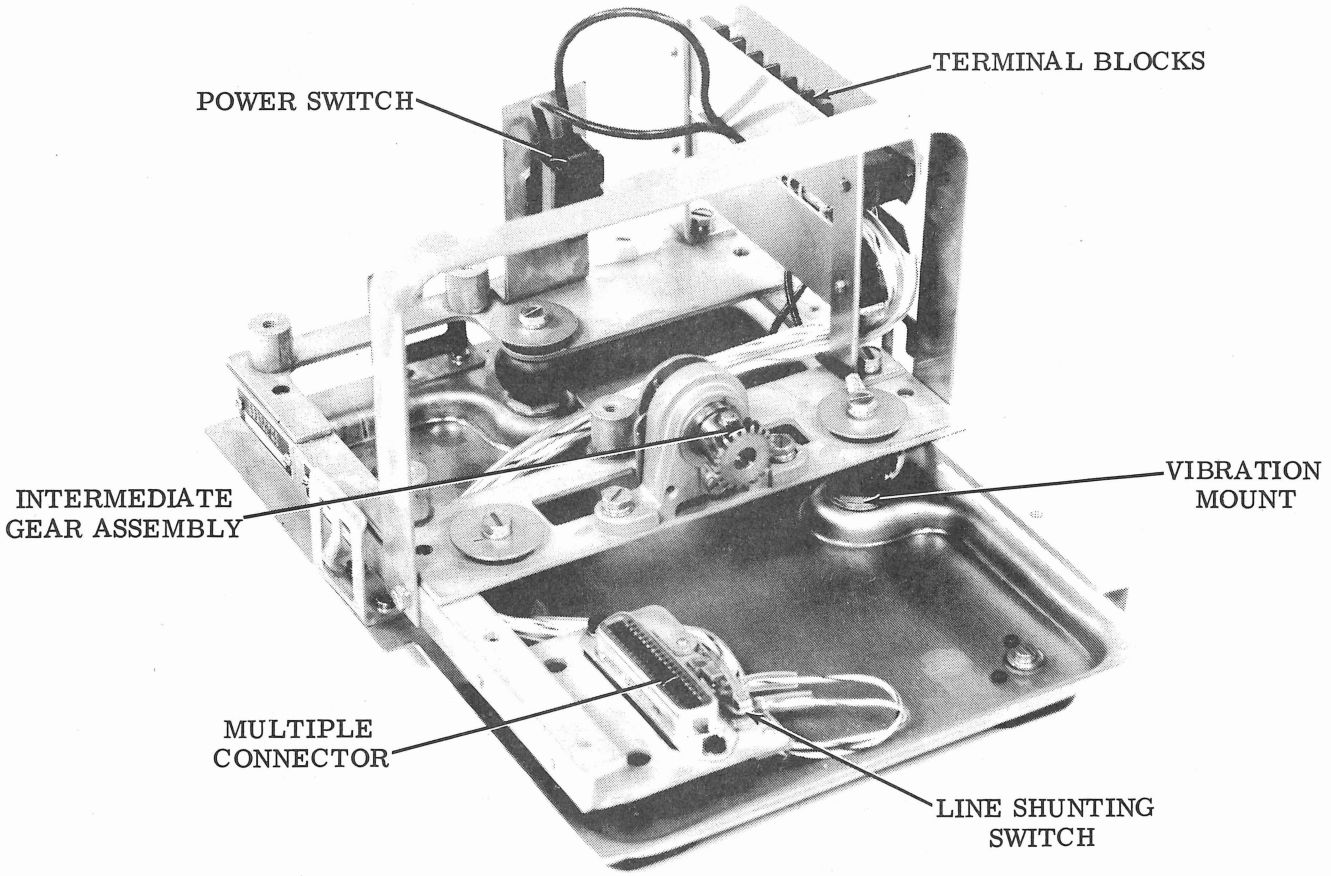

Figure 5 - Miniature Base

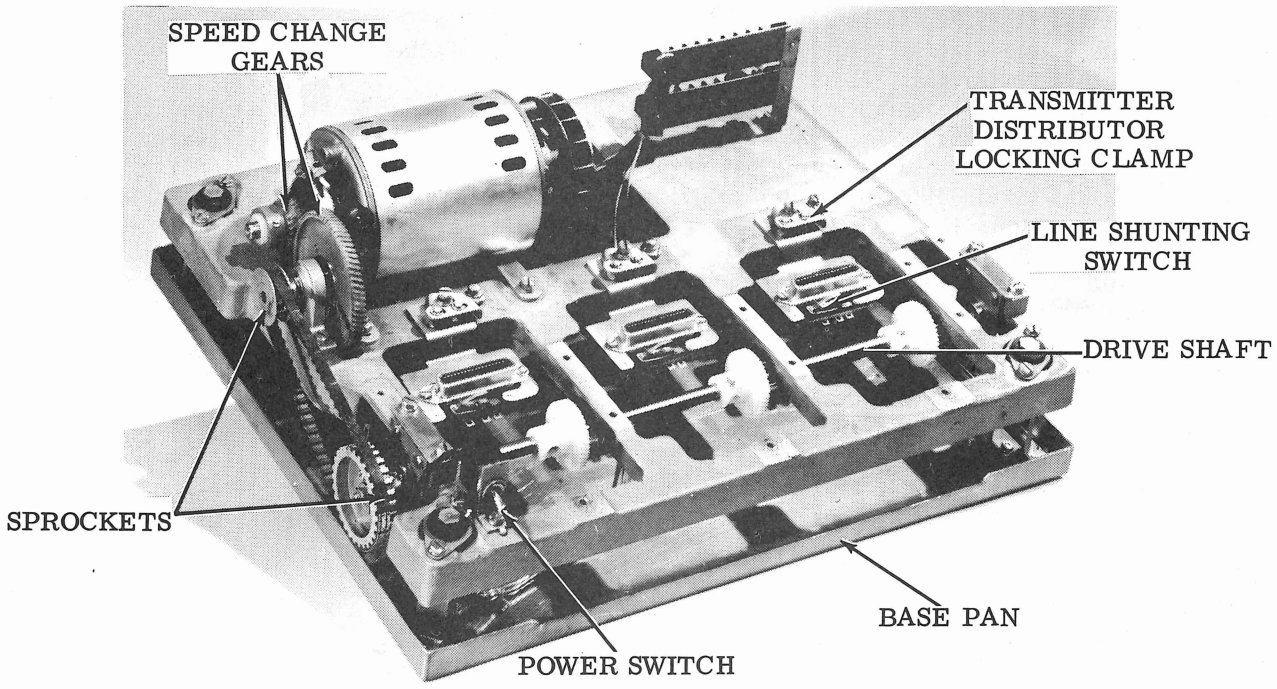

Figure 6 - Single Contact Multiple Mounting Transmitter Distributor Base (Common Speed)

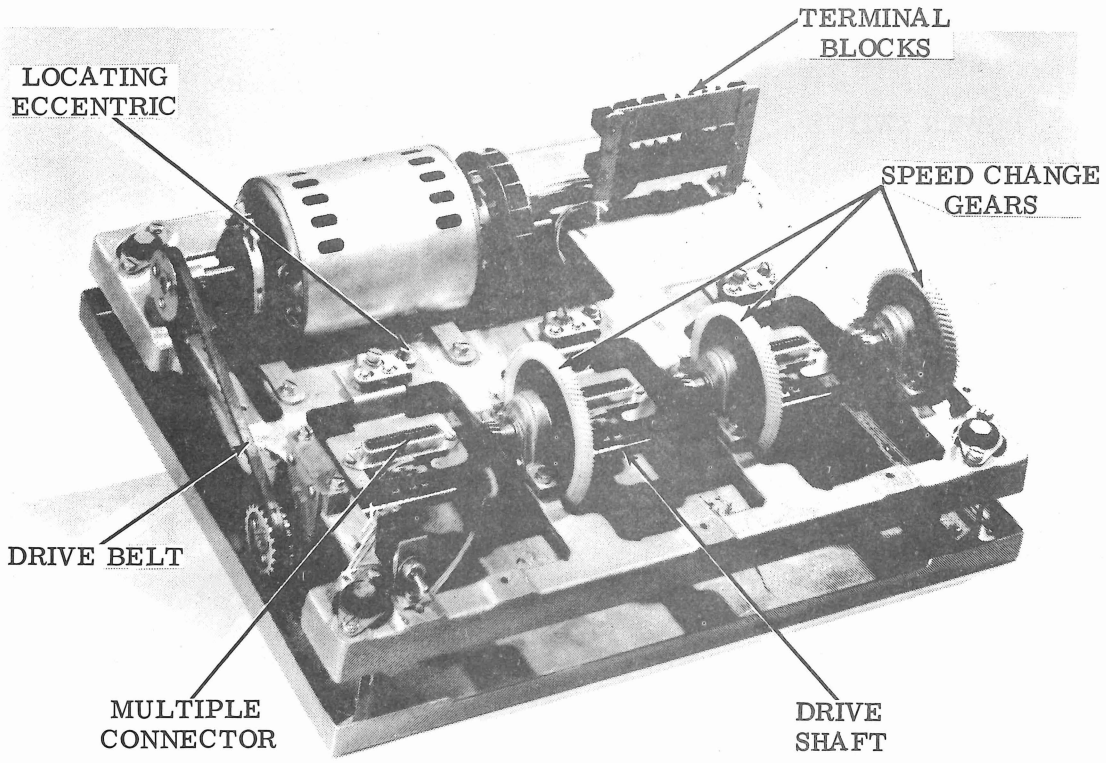

Figure 7 - Single Contact Multiple Mounting Transmitter Distributor Base (Variable Speed)

change gears between the motor pinion and an intermediate gear assembly (Figure 6). With this arrangement, the three gears on the drive shaft are the same size and drive all three transmitter distributors at the same speed. Other bases have speed change gears at each transmitter distributor (Figure 7). With this arrangement, each transmitter distributor may be driven at 60, 75, or 100 words per minute by changing its intermediate gears.

C. Bases for Multicontact Multiple Mounting Transmitter Distributors

2.20 The multiple mounting bases for the multicontact transmitter distributors also serve as a mounting for three transmitter distributors, a motor unit, drive shafting with gears, and electrical connections. Some of these bases are constructed of aluminum casting (Figure 8); others are constructed of steel plates (Figure 9). A drive shaft traverses the base near its center portion and drives the transmitter distributors, either directly or through a gear shift assembly. Where the shaft drives the transmitter distributor directly, the speed changes are made between the motor pinion and the intermediate gear (Figure 8). Where the gear shifts are used, the speed of any one of the transmitter distributors may be changed irrespective of others by shifting the gears (Figure 9).

2.21 Internal electrical connections vary with the different models. Some are made on terminal blocks at the left rear portion of the base; others are made by multiple connectors at the rear of the base. Connection with most transmitter distributors is made by multiple connectors at the rear of the transmitter distributor. Some models make connection by a loose end cable with multiple connector which mates with a connector underneath the transmitter distributor.

COVERS

2.22 In general, the covering for the transmitter distributors are of simple slip-over design.

2.23 The covering for single mounted transmitter distributors consists of two parts. One is a slip-over cover for the motor unit, terminal blocks, and intermediate gear assembly;

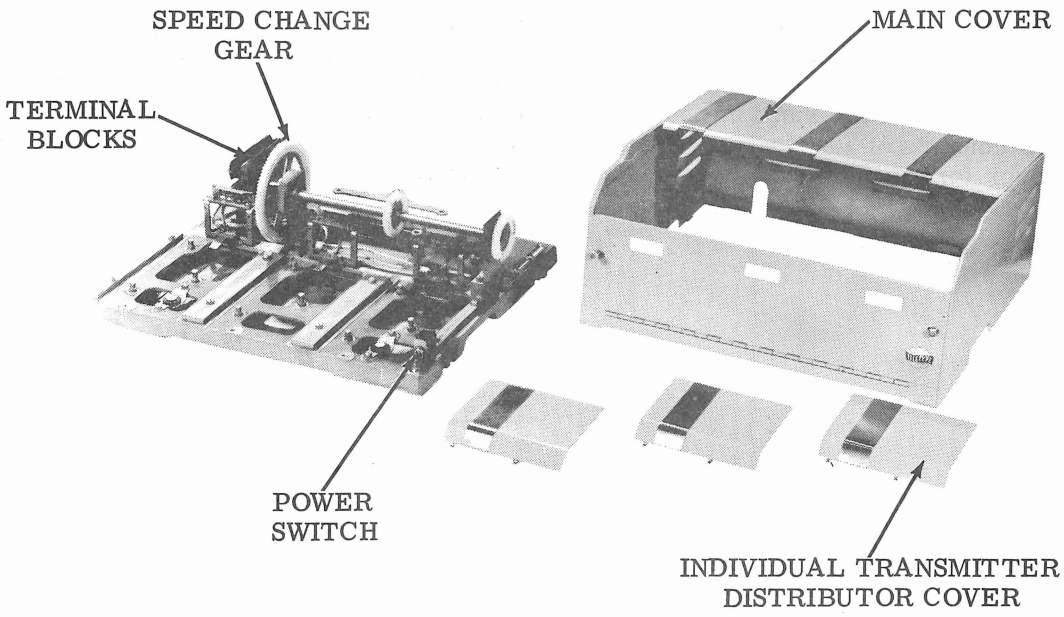

Figure 8 - Multicontact Multiple Mounting Transmitter Distributor Base (Common Speed)

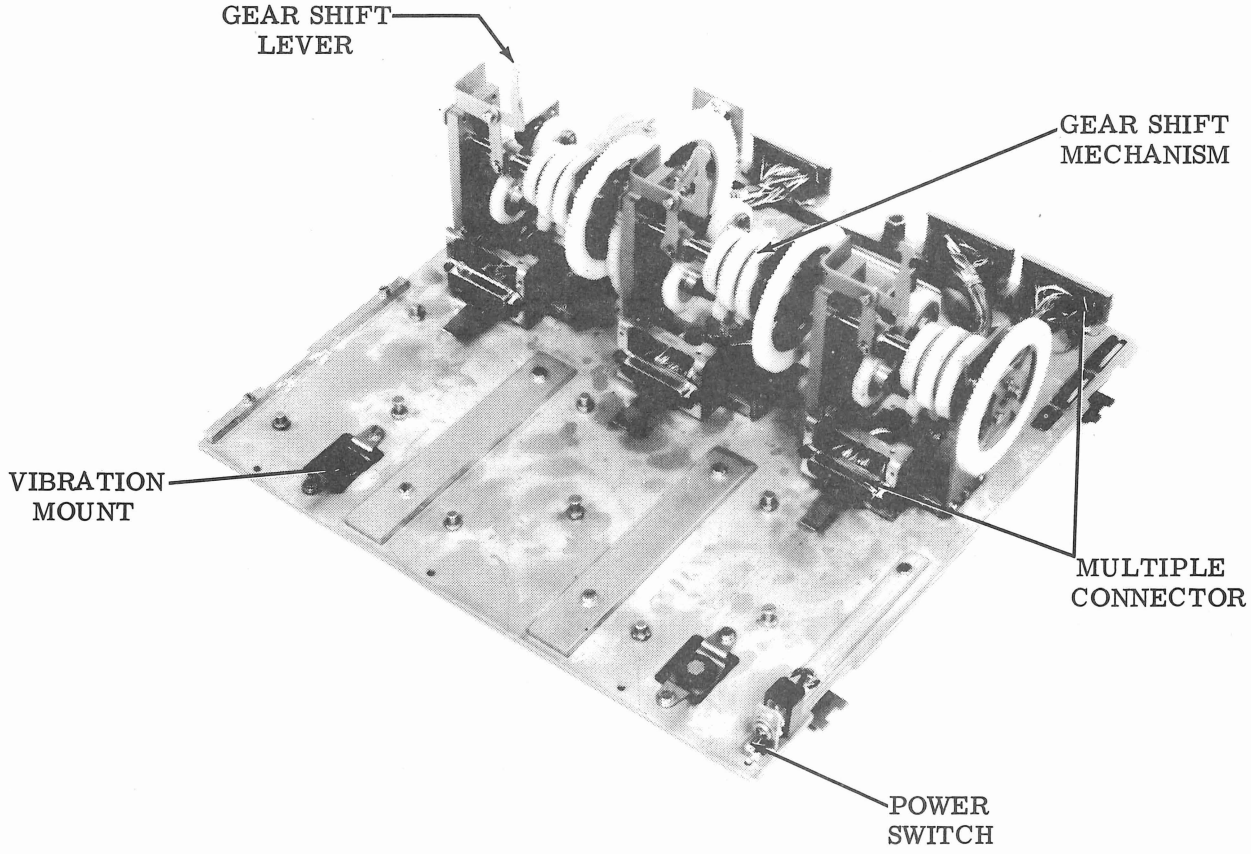

Figure 9 - Multicontact Multiple Mounting Transmitter Distributor Base (Variable Speed)

and the other is a U-shaped panel which encloses three sides of the transmitter distributor.

2.24 The covering for the multiple mounting sets consists of four parts. One is a slip-over cover for the motor unit, gearing, and terminal blocks; and the other three are cover plates for the individual transmitter distributors (Figure 8). The front side of the larger cover is hinged so that it may be opened for access to the front of the transmitter distributors.