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### 1. GENERAL

1.01 This section contains the requirements and adjusting procedures for maintenance of the multiple-mounted single-contact and multicontact transmitter-distributor sets.

1.02 This section is reissued to bring up to date the requirements and adjustments for the multicontact transmitter-distributor set, to add the requirements and adjustments for the single-contact transmitter-distributor set, and to change the title accordingly.

1.03 For requirements and adjusting procedures for maintenance of the transmitter-distributor units, refer to the sections which contain the requirements and adjustments for the 28H or 28G transmitter-distributor unit.

1.04 In this section, left or right, front or rear, and top or bottom apply to the apparatus in its normal operating position as viewed from the front.

1.05 The covers may be removed for inspection and minor repair of the set; however, when more extensive maintenance is to be undertaken, it is recommended that the set be disconnected from its source of power as a safety precaution.

### 2. REQUIREMENTS AND ADJUSTMENTS

2.01 The following figures show the adjusting tolerances, positions of moving parts, and spring tensions. The illustrations are arranged so that the adjustments are in the sequence that would be followed if a complete readjustment of the set were being made. In some cases where an illustration shows interrelated parts, the sequence that should be followed in checking the requirements and making the adjustments shown is indicated by the letters (A) and (B).
A. Single-contact Multiple-mounted Transmitter-Distributor Set

2.02 Cover Plate

COVER-PLATE DETENT (BOTTOM VIEW)

COVER-PLATE DETENT SPRING REQUIREMENT --- WITH SPRING SCALE APPLIED TO CENTER OF ONE DETENT MIN. 28 OZS-MAX. 48 OZS. TO START PLUNGER MOVING.

NOTE

OUTER EDGE OF EACH MOUNTING BRACKET SHALL BE APPROXIMATELY IN LINE WITH SHOULDER OF ITS MOUNTING STUD, SO THAT PROJECTIONS OF FRONT AND REAR BRACKETS ARE EQUAL (GAUGE BY EYE).
2.03 Multiple Transmitter-Distributor Base

TIMING BELT REQUIREMENT
WITH 5 OUNCES OF PRESSURE APPLIED TO THE BELT MIDWAY BETWEEN SPROCKETS IT SHALL BE DEFLECTED APPROXIMATELY 3/8 INCH FROM A STRAIGHTEDGE PLACED ACROSS THE TWO SPROCKETS.

TO ADJUST
ROTATE THE ECCENTRIC IN THE REAR MOUNTING BRACKET OF THE MOTOR WITH THE MOTOR-BRACKET MOUNTING SCREWS LOOSENED.

MOTOR-POSITION ECCENTRIC (BEHIND MOTOR)
MOTOR-BRACKET MOUNTING SCREW
SPROCKET
BELT

TRANSMITTER-DISTRIBUTOR POSITION REQUIREMENT
THERE SHALL BE A BARELY PERCEPTIBLE AMOUNT OF BACKLASH BETWEEN THE TRANSMITTER GEAR AND THE GEAR ON THE INTERMEDIATE SHAFT WHEN THE TRANSMITTER IS HELD AGAINST ITS POSITIONING ECCENTRIC.

INTERMEDIATE GEAR SHAFT BRACKET REQUIREMENT
BARELY PERCEPTIBLE BACKLASH BETWEEN GEARS OF INTERMEDIATE SHAFT AND COUNTERSHAFT.
TO ADJUST
POSITION INTERMEDIATE GEAR SHAFT ASSEMBLY WITH MOUNTING SCREWS LOOSENED.

COUNTERSHAFT-BRACKET MOUNTING BARS
INTERMEDIATE GEAR
MOUNTING SCREWS

TO ADJUST
PLACE THE TRANSMITTER LOCKING DEVICE TO THE LEFT. LOOSEN THE ECCENTRIC LOCKING SCREW. PLACE TRANSMITTER IN POSITION TO ENGAGE THE MULTIPLE CONNECTOR AND MESH THE GEARS. SHIFT UNIT TO PROVIDE THE PERCEPTIBLE BACKLASH BETWEEN THE GEARS AND POSITION THE ECCENTRIC.

NOTE
IF NECESSARY, ADDITIONAL ADJUSTING RANGE MAY BE PROVIDED BY LOOSENING THE TWO SCREWS IN THE RIGHT AND LEFT COUNTERSHAFT-BRACKET MOUNTING BARS AND MOVING THE COUNTERSHAFT ASSEMBLY FORWARD OR TO THE REAR AFTER LOOSENING THE INTERMEDIATE SHAFT BRACKETS AND BELT TENSION. IF THIS IS DONE, THE COUNTERSHAFT MUST BE KEPT PARALLEL AND SQUARE. REMAKE TIMING BELT AND TRANSMITTER-DISTRIBUTOR POSITION ADJUSTMENTS.
SECTION 573-106-700

2.04 Line-shunt Switch

LINE-SHUNT SWITCH

REQUIREMENT


TO ADJUST
ROTATE THE INSULATING ADJUSTING SCREW WITH ITS LOCKNUT LOOSENED.
2.05 Tape Deflector

TAPE-DEFLECTOR BRACKET

Requirement
The tang of the deflector shall be centrally located in the hole in the top plate when in its operating position.

To adjust
Remove rear screw which secures the tape-deflector spring to the cover plate, loosen the forward screw and position the tape deflector.

Deflector spring

Mounting screw

Cover plate

TAPE-DEFLECTOR SPRING

Requirement
Min. 1-1/2 ozs.
Max. 4 ozs.
To start the deflector moving from its operating position.

To adjust
Position the spring by use of its enlarged mounting slot with its screw loosened.
SECTION 573-106-700

B. Multicontact Multiple-mounted Transmitter-Distributor Set

2.06 Multiple Transmitter-Distributor Base

(A) MOTOR PINION

REQUIREMENT — PINION AND INTERMEDIATE GEAR SHALL HAVE A BARELY PERCEPTIBLE AMOUNT OF BACKLASH AT THEIR CLOSEST POINT (CHECK FOR ONE REVOLUTION OF INTERMEDIATE GEAR). TO ADJUST — WITH ITS LOCKNUTS LOOSEMED, POSITION THE ADJUSTING STUD UP OR DOWN.
COUNTERSHAFT
REQUIREMENT
BARELY PERCEPTIBLE AMOUNT OF BACKLASH BETWEEN COUNTERSHAFT DRIVING GEAR AND ITS ASSOCIATED TRANSMITTER-DISTRIBUTOR DRIVEN GEAR AT POINT OF LEAST CLEARANCE.
TO ADJUST
(1) WITH LOCATING PLATE MOUNTING SCREWS FRICTION TIGHT, POSITION PLATE AT CENTER OF ITS ADJUSTMENT RANGE.
(2) INSERT A UNIT (WITH CRADLE) INTO LEFT MOUNTING POSITION ON BASE. POSITION LOCATING PLATE TO MEET REQUIREMENT. TIGHTEN PLATE MOUNTING SCREWS.
(3) REMOVE UNIT FROM LEFT POSITION, AND PLACE IT IN RIGHT MOUNTING POSITION. LOOSEN MOUNTING SCREWS ON COUNTERSHAFT PEDESTALS AND POSITION RIGHT END OF COUNTERSHAFT TO MEET REQUIREMENT.
(4) TIGHTEN ALL MOUNTING SCREWS, CHECK FOR BINDS, AND RECHECK REQUIREMENTS IN RIGHT AND LEFT MOUNTING POSITIONS. REFINE IF NECESSARY.

MOTOR
PINION
TRANSMITTER-DISTRIBUTOR DRIVEN GEAR
COUNTERSHAFT
PEDESTAL MOUNTING SCREWS
DRIVING GEAR
FILLER PLATE
UNIT (WITH CRADLE)
LOCATING PLATE
BASE
SECTION 573-106-700

2.06 Multiple Transmitter-Distributor Base (Cont)

(B) FILLER PLATES

REQUIREMENT

TOP SURFACE OF FILLER PLATE SHALL ALIGN WITH UPPER SURFACE OF BOTH TOP PLATE AND TAPE-GUIDE PLATE. COMMON EDGES SHALL BEAR AGAINST EACH OTHER.

TO CHECK

(1) LAY A STRAIGHTEDGE ACROSS TOP PLATES AND FILLER PLATES, 1/4" FROM COVER PLATE. GAP BETWEEN EACH PLATE AND STRAIGHTEDGE, 1/8" ON EACH SIDE OF EDGE BETWEEN TOP AND FILLER PLATES (5 EDGES), SHALL BE FLUSH TO 0.010 INCH.

(2) LAY A STRAIGHTEDGE ACROSS TAPE-GUIDE PLATES AND FILLER PLATES, 1/8" FROM LOWER EDGE OF TAPE-GUIDE PLATES. GAP BETWEEN STRAIGHTEDGE AND EACH TAPE-GUIDE PLATE 1/8" ON EACH SIDE OF EDGE BETWEEN TAPE GUIDE AND FILLER PLATES (5 EDGES), SHALL BE FLUSH TO 0.010 INCH.

TO ADJUST

POSITION FILLER PLATE AND ITS BRACKETS WITH THE BRACKET MOUNTING SCREWS AND PLATE MOUNTING NUTS FRICITION TIGHT.

(A) COVER PLATES

(1) REQUIREMENT

WITH THREE UNITS IN POSITION ON THE BASE, THE COVER PLATES SHALL ALIGN HORIZONTALLY, AND THE MATING EDGE OF EACH COVER PLATE AND TOP PLATE SHALL BE FLUSH.

TO ADJUST

POSITION COVER PLATE WITH ITS DETENTING NUTS LOOSENED;

(2) REQUIREMENT

EDGE OF COVER PLATE OPPOSITE DRIVING GEAR SHALL ALIGN WITH EDGE OF TOP PLATE.

TO ADJUST

POSITION COVER PLATE WITH THE CORNER PLATE DETENT MOUNTING NUTS AND SPRING-PLATE MOUNTING NUTS FRICITION TIGHT.

NOTE

WHEN LESS THAN 3 UNITS ARE USED ON THE BASE, THE UNUSED COMPARTMENT CONTAINS A DUMMY UNIT. POSITION THE TOP PLATE AND COVER IN A MANNER SIMILAR TO ADJUSTMENT PROCEDURE (A).
2.07 Line-shunt Switch

LINE-SHUNT SWITCH
TO CHECK
PLACE A TRANSMITTER-DISTRIBUTOR IN ONE OF THE MOUNTING POSITIONS. NOTE THE POINT (A) AT WHICH THE CONNECTOR PLUG STARTS TO ENGAGE THE CONNECTOR RECEPTACLE, AND THE POINT (B) WHERE THE PLUG FULLY ENGAGES THE RECEPTACLE.

REQUIREMENT
LINE SWITCH SHALL ACTUATE (CONTACTS CLOSE) BEFORE UNIT IS WITHDRAWN ONE HALF THE DISTANCE BETWEEN POINTS (A) AND (B).

TO ADJUST
WITH SWITCH BRACKET MOUNTING SCREWS FRICTION TIGHT, POSITION SWITCH BY MEANS OF ITS PRY POINT. CHECK ALL LINE-SHUNT SWITCHES.
2.08 Tape-deflector Mechanism

NOTE
DEFLECTOR IS HINGED TO SWING IN EITHER OF TWO POSITIONS:
1. OPERATING POSITION (LEFT SIDE) - DEFLECTS TAPE BACK TO OPERATOR.
2. NONOPERATING POSITION (RIGHT SIDE) - ALLOWS TAPE TO FOLLOW NORMAL PATH TO REAR OF UNIT.

(A) DEFLECTOR BRACKET
REQUIREMENT
WHEN DEFLECTOR IS IN OPERATING POSITION, DEFLECTOR TANG SHALL BE CENTRALLY LOCATED IN TOP-PLATE HOLE.
TO ADJUST
POSITION BRACKET WITH ITS MOUNTING SCREWS LOOSENED.

(B) DEFLECTOR SPRING
REQUIREMENT
MIN. 1-1/2 OZS.
MAX. 4 OZS.
TO START DEFLECTOR MOVING.
TO ADJUST
WITH SCREW WHICH ANCHORS SPRING TO FILLER PLATE LOOSENED, POSITION SPRING IN ITS ELONGATED MOUNTING SLOT. IF NECESSARY, BEND SPRING.