## 28 TRANSMITTER-DISTRIBUTOR BASE

### ANSWER-BACK MECHANISM

### LUBRICATION

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### OPERATING SPEEDS IN WORDS PER MINUTE

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<th>LUBRICATION INTERVAL</th>
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<tr>
<td>60</td>
<td>3000 hours or 1 year*</td>
</tr>
<tr>
<td>75</td>
<td>2400 hours or 9 months*</td>
</tr>
<tr>
<td>100</td>
<td>1500 hours or 6 months*</td>
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*Whichever occurs first.

### 1. GENERAL

**1.01** This section has been revised to include recent engineering changes and additions, and to rearrange the text so as to bring the section generally up-to-date. Since this is an extensive revision, marginal arrows ordinarily used to indicate changes have been omitted.

**1.02** The 28 Transmitter-Distributor Base Answer-Back Mechanism should be lubricated as directed in this section. The figures indicate the points to be lubricated and the quantity of lubricant to be used. Lubricate the assembly just prior to placing it in service. After a few weeks in service, relubricate to make certain that all points receive lubrication. The following lubrication schedule should be followed thereafter:

1. **Use TP88970 oil at all locations where the use of oil is indicated. Use TP88973 grease on all surfaces where grease is indicated.**

2. **All spring wicks and felt oilers should be saturated. The friction surfaces of all moving parts should be thoroughly lubricated. Over lubrication, however, which will permit oil or grease to drip or be thrown on other parts, would be avoided. Special care must be taken to prevent any oil or grease from getting between electrical contacts.**

3. **Apply a thick film of grease to all gears.**

4. **Apply oil to all cams, including the camming surfaces of each clutch disc.**

5. **The photographs show the paragraph numbers referring to particular line drawings of mechanisms and where these mechanisms are located on the unit. Parts in the line drawings are shown in an upright position unless otherwise specified.**

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1.08 The illustration symbols indicate the following lubrication directions:

- **O** Apply 1 drop of oil.
- **O2** Apply 2 drops of oil.
- **O3** Apply 3 drops of oil.
- **O4** Apply 4 drops of oil, etc.
- **G** Apply thin film of grease.
- **SAT** Saturate (felt oilers, washers, wicks) with oil.

2. LUBRICATION

2.01 Answer-Back Mechanism (Front View)
2.02 Answer-Back Mechanism (Rear View)
2.03 Clutch Trip Magnet Mechanism

SAT FELT WICK

O HOOKS - EACH END

SAT FELT OILER TRIP LEVER SHAFT

O HOOKS - EACH END SPRING

G CAM SURFACE
G STOP SURFACE
G STOP SURFACE

CLUTCH DISC
CLUTCH LATCH LEVER
CLUTCH TRIP LEVER

ARMATURE HINGE

Page 4
2.04 Clutch Trip Magnet Mechanism continued

- CAMMING SURFACE
- CLUTCH CAM DISC
- RESET CAM DISC
- FELT OILER
- SAT
- RESET ROLLER
- ARMATURE BAIL SHAFT
- HOOKS - EACH END SPRING
- O
- HOOKS - EACH END SPRING
- O
- LATCHING SURFACE ARMATURE BAIL
- O
- HOOKS - EACH END SPRING

(RIGHT SIDE VIEW)
2.05 Contact Lever Assembly

- HOOKS - EACH END (8)
- SPRING
- PIVOT POINTS (8)
- DISTRIBUTOR BLOCK
- PIVOT POINTS (8)
- CAM FOLLOWER
- PIVOT POINTS (8)
- DISTRIBUTOR BLOCK
- HOOKS - EACH END (8)
- SPRING
- BEARING SURFACES (8)
- CONTACT LEVER
- COMPRESSION SPRING

2.06 Cam Shaft and Clutch Assembly

- INTERNAL MECHANISM
- CLUTCH
- SAT
- FELT OILERS (9)
- CAM ASSEMBLY
- O4
- OIL HOLES (2)
- CAM SHAFT
- O2
- CAMS (11)
- CAM SHAFT
2.07 Contact Lever and Cam Sleeve Assemblies

SAT FELT OILERS (6) CAM ASSEMBLY

FILL OIL CUP CLUTCH AND CAM SHAFT

O BEARING SURFACES (7) CONTACT LEVERS (7)

O HOOKS - EACH END COMPRESSION SPRING

O COILS

(REAR VIEW)

2.08 Clutch and Gear Assemblies

G TEETH GEAR

FILL OIL CUP CLUTCH AND CAM SHAFT

O4 INTERNAL MECHANISM CLUTCH

G STOP SURFACE CLUTCH TRIP LEVER

SAT FELT OILERS (4) CLUTCH TRIP SHAFT

O HOOKS - EACH END COMPRESSION SPRING

O COILS

G TEETH GEAR

(REAR VIEW)
2.09 Answer-Back Drum

- GEAR TEETH
- DRIVEN GEAR
- PIVOT HOLES AND ROLLER SURFACE
- DRIVE LEVER
- LOOPS - EACH END
- FEED PAWL SPRING
- GUIDING SURFACE
- GUIDE
- LOOPS - EACH END
- DETENT LEVER SPRING
- LOOPS - EACH END
- DRIVE LEVER SPRING
- GEAR TEETH
- DRIVEN GEAR

2.10 Auxiliary Contact

- INSULATOR SURFACE
- CONTACT ASSEMBLY
2.11 Answer-Back Drum Feed Pawl

- G TOOTH SURFACE FEED PAWL
- G BACKSTOP SURFACE FEED PAWL
- G PIVOT HOLE FEED PAWL
- G PIVOT SURFACE MOUNTING BRACKET
- G SHAFT AND STUD DRIVE PLATE

2.12 Answer-Back Drum Detent

- G PIVOT HOLE DETENT LEVER
- G ROLLER DETENT LEVER
2.13 Transmitter-Distributor Base

G Gear Teeth
(4 Gears)

O2 Oilite Bearings (4)
(Oil each side of bearings)

Base Gears

Base Bearings