

BELL SYSTEM PRACTICES
Teletypewriter and Data Stations

SECTION P34.604
Issue 1, February, 1959
AT&TCo Standard

28E AND 28H

TRANSMITTER-DISTRIBUTOR UNITS

LUBRICATION

| Contents | Par. No. |
|---------------------------------------|-----------------|
| 1. GENERAL | 1.01-1.05 |
| 2. PARTS TO BE LUBRICATED | 2.01-2.16 |
| 3. REFERENCE TO BELL SYSTEM PRACTICES | 3.01 |

1. GENERAL

1.01 This section provides the lubrication procedures for the maintenance of the 28E and 28H transmitter-distributor units.

1.02 Lubrication of the apparatus before it is placed in service should be governed by the principles given in Section P33.014. After that, because of varying conditions at each station, the apparatus should be lubricated as often as specified by local instructions. The following lubrication intervals are suggested as a guide for use under normal operating conditions.

| <u>Operating Speeds in Words per Minute</u> | <u>Lubrication Interval</u> |
|---|-----------------------------|
| 60 | 3000 hours or 1 year* |
| 75 | 2400 hours or 9 months* |
| 100 | 1500 hours or 6 months* |

*Whichever occurs first.

1.03 The lubricants to be used and their methods of application are those specified in Section P30.011. The lubrication symbols used herein are the same as those given in that section. However, the symbol 0, which according to Section P30.011 indicates one or two drops of oil, is used in this section to mean only one drop of oil. Symbols, such as 02, 03, or 06, are used herein to specify that two, three, or six drops, respectively, are to be applied at the points indicated.

1.04 Maintenance lubrication of the 28E and 28H transmitter-distributor units after installation should be performed in accordance with the following general information and with the specific instructions illustrated in Part 2.

- (a) Saturate all felt oil retainers (felt lubricating washers and wicks) with oil.
- (b) Apply oil to all cams including the camming surfaces of each clutch disc.
- (c) Thoroughly lubricate the friction surfaces of all moving parts in accordance with the appropriate instructions given in Part 2.

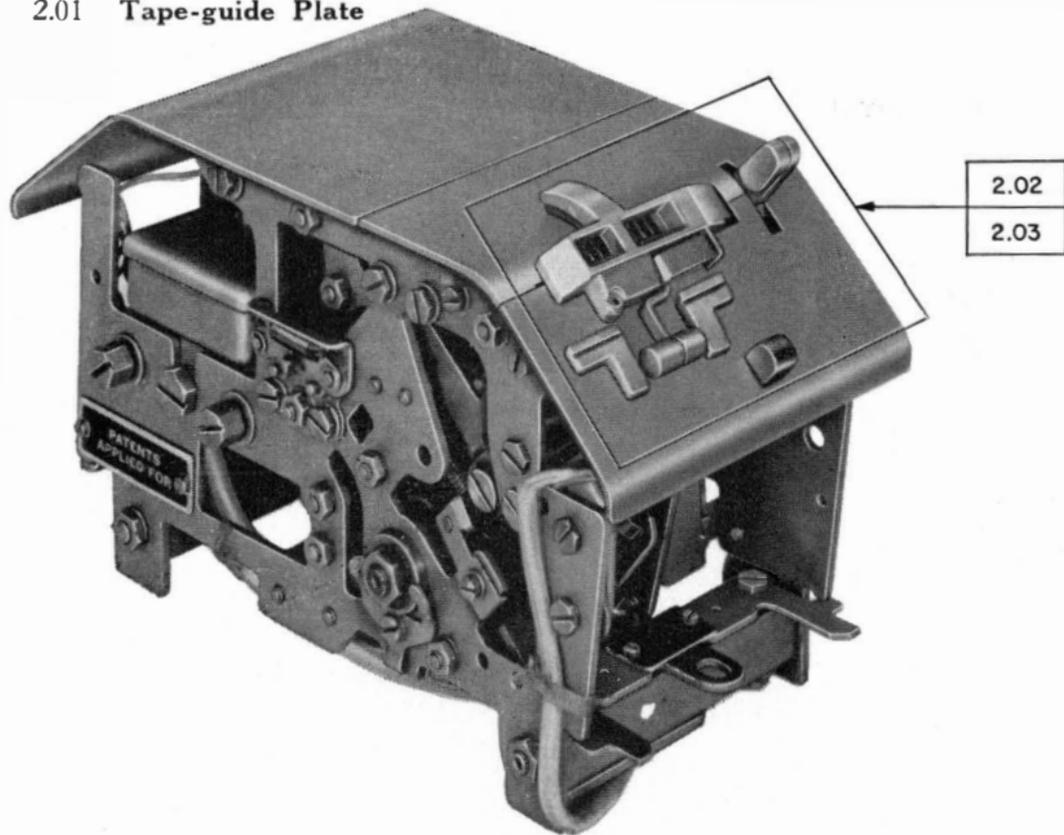
Overlubrication, however, which would permit oil or grease to drip or be thrown on other parts should be avoided. Special care should be taken to prevent any lubricant from getting on the face of any contact point or on the magnet pole face.

1.05 The photographs in this section show the paragraph numbers referring to particular line drawings of mechanisms and the location of the mechanisms on the unit. Parts in the line drawings are shown in an upright position unless otherwise indicated. If it is difficult to lubricate a part in the upright position, the apparatus should be turned to a position in which the part is more accessible.

2. PARTS TO BE LUBRICATED

Note: See 1.01 through 1.05 for general lubrication instructions.

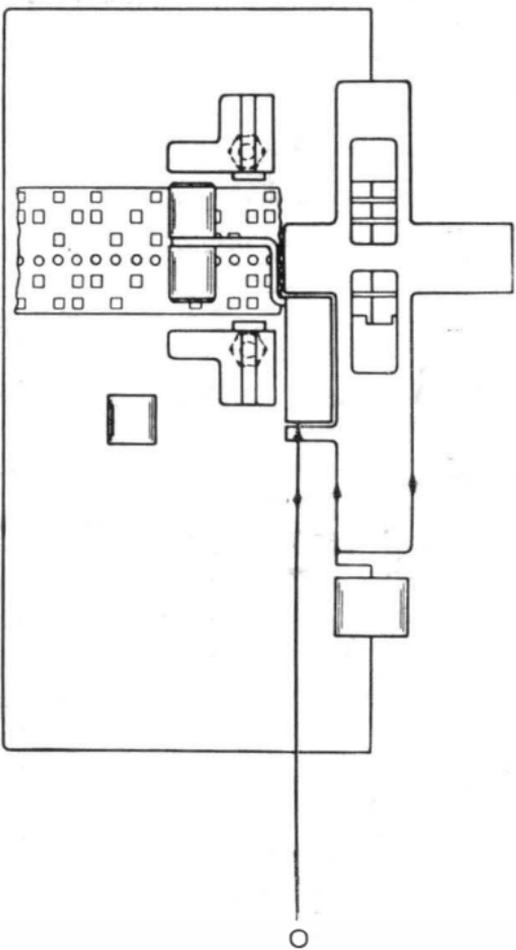
2.01 Tape-guide Plate



28E AND 28H
TRANSMITTER-
DISTRIBUTOR
UNITS
LUBRI-
CATION

P34.604

2.02 Tape-guide Plate (Cont'd)

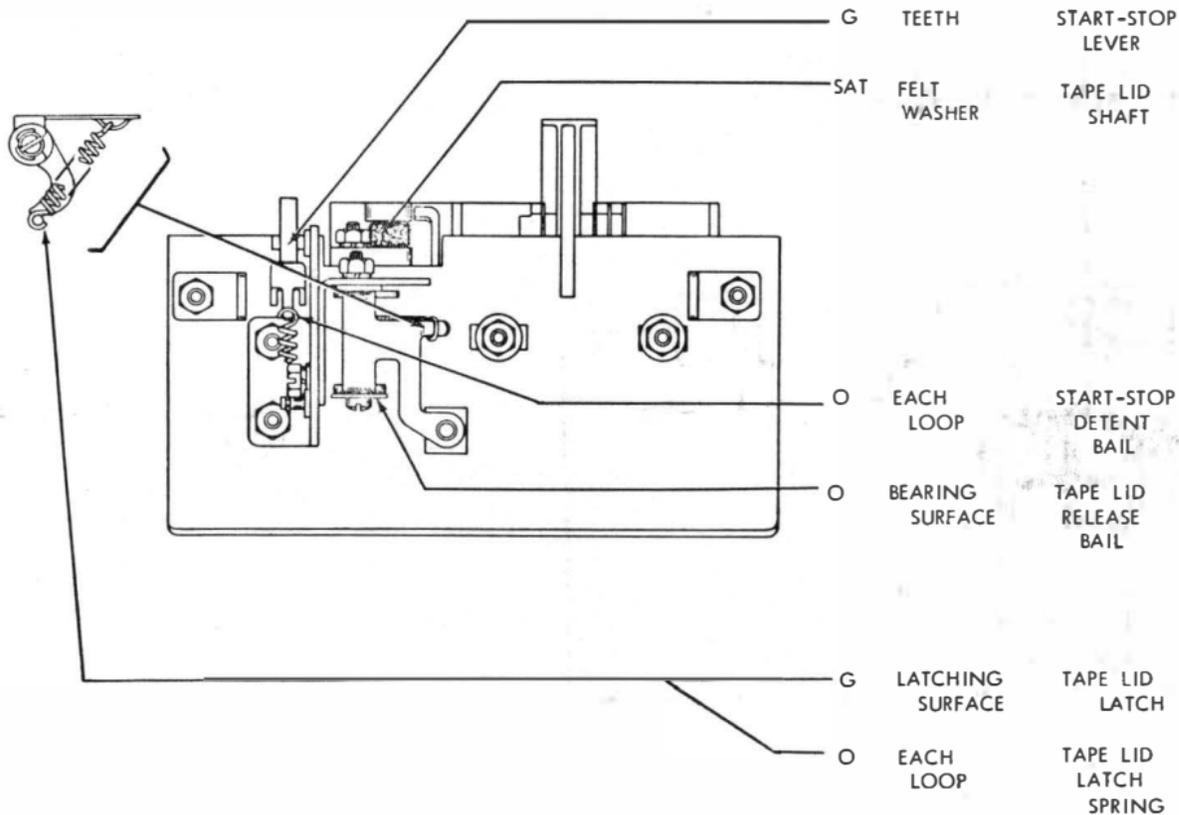


BEARING
SURFACE

TIGHT TAPE
BAIL



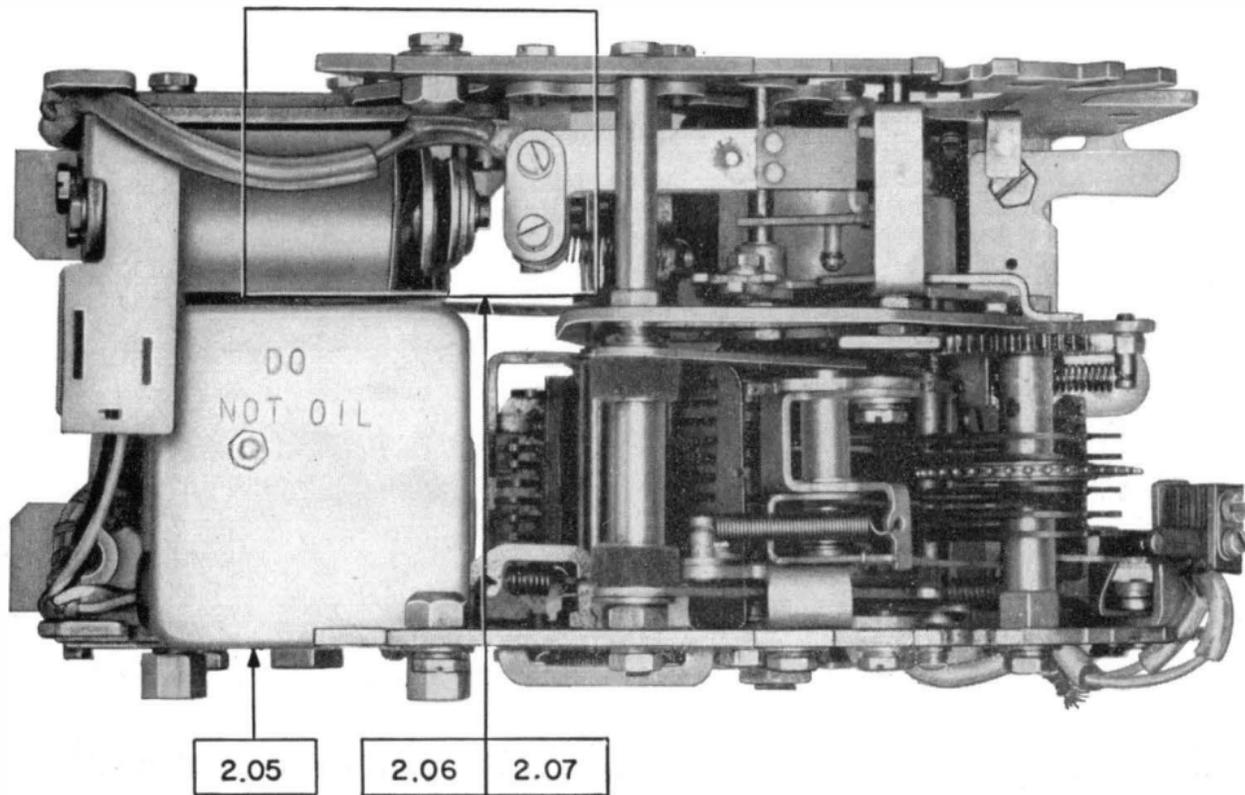
2.03 Tape-guide Plate (Cont'd)



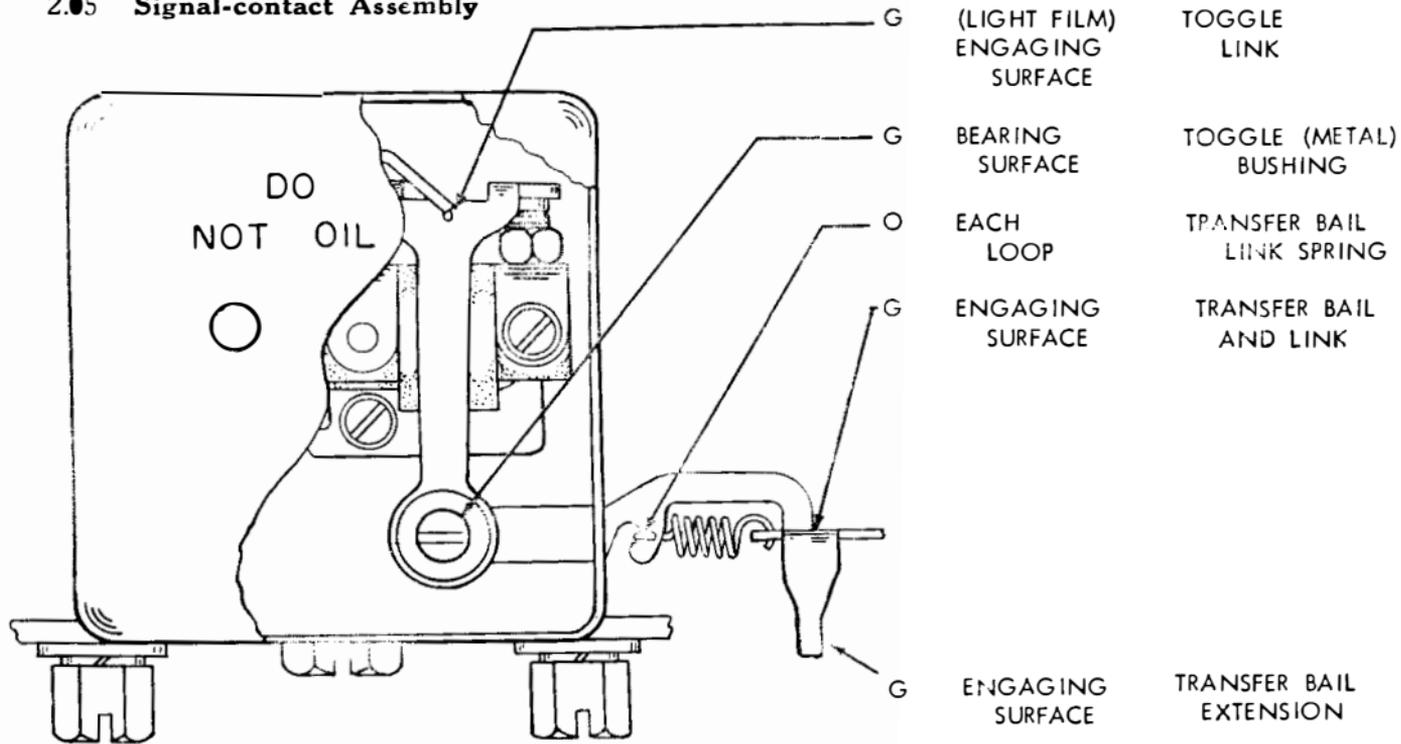
28E AND 28H
 TRANSMITTER-
 DISTRIB-
 UTOR UNITS
 LUBRI-

P34.604

2.04 Signal-contact and Clutch-trip Assemblies (Top View)



2.05 Signal-contact Assembly



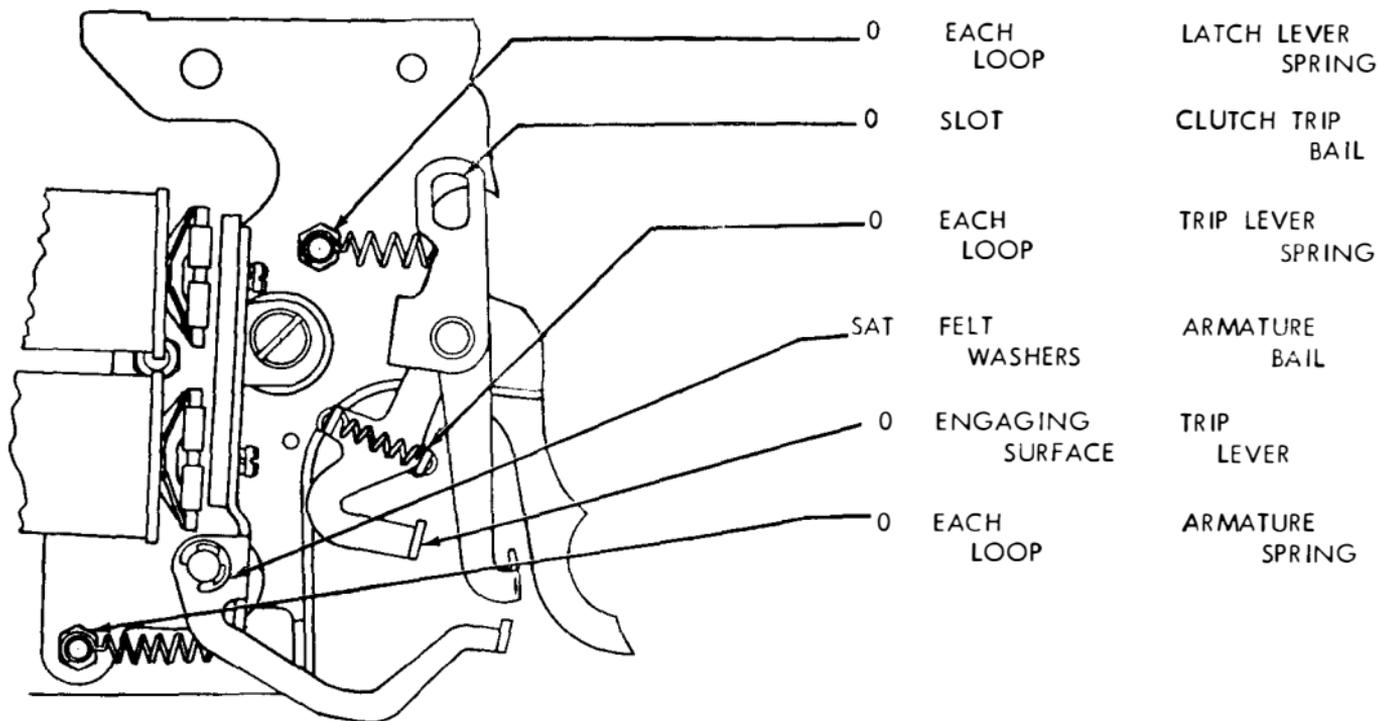
Note: The marking "DO NOT OIL" on the signal-contact box should be interpreted literally. Portions of the mechanism should be **greased** as indicated, but no **oil** should be used.

28E AND 28H
TRANSMITTER-
DISTRIBUTOR
UNITS
LUBRI-
CATION

P34.604

Page 7

2.06 Clutch-trip Assembly



2.07 Clutch-trip Assembly (Cont'd)

SAT

FELT
WASHER

LATCH
LEVER

SAT

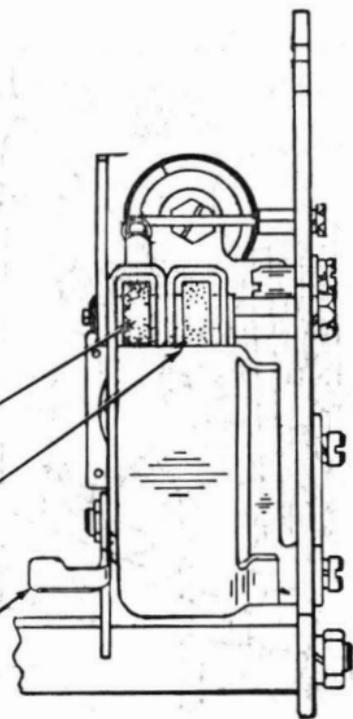
FELT
WASHER

TRIP
LEVER

G

ENGAGING
SURFACE

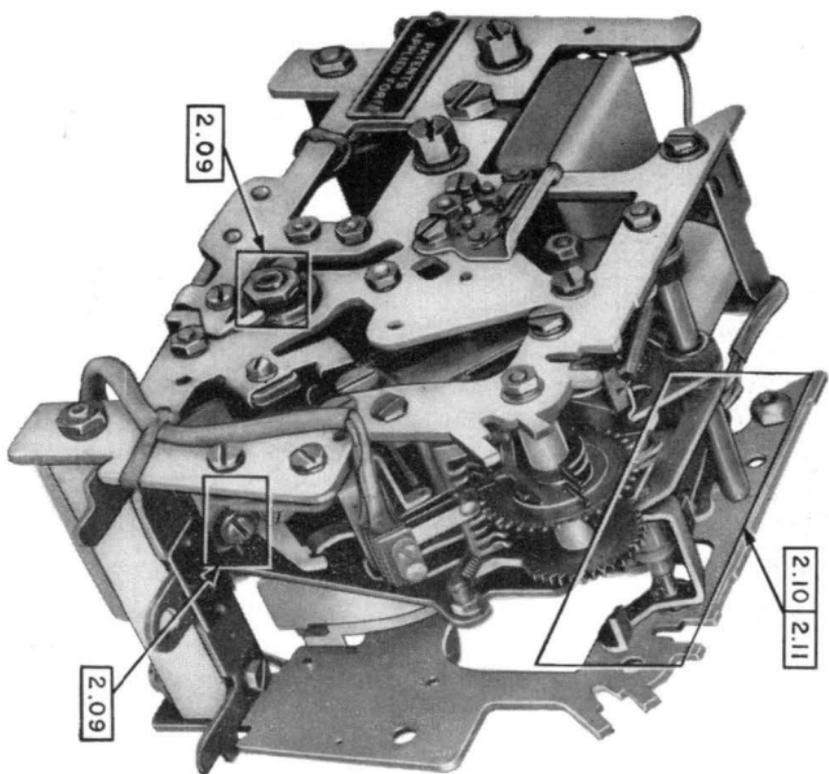
ARMATURE
BAIL
EXTENSION



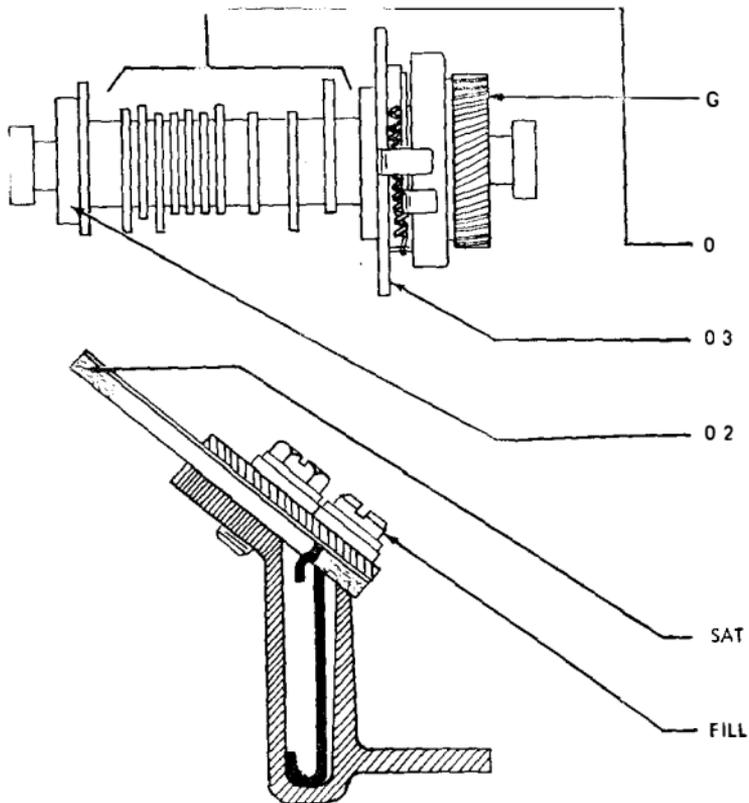
28E AND 28H
TRANSMITTER-
DISTRIBUTOR
UNITS
LUBRICATION

P34.604

2.08 Main-shaft, Oil-reservoir, and Center-plate Assemblies



2.09 Main Shaft and Oil Reservoir



G TEETH TRANSMITTER
DISTRIBUTOR
GEAR

O CAMMING
SURFACES CAM
SLEEVE

O3 CAMMING
SURFACE CLUTCH
DISK

O2 CAMMING
SURFACE DRIVE ARM
CAM

SAT LEATHER
WICK CAM
OILER

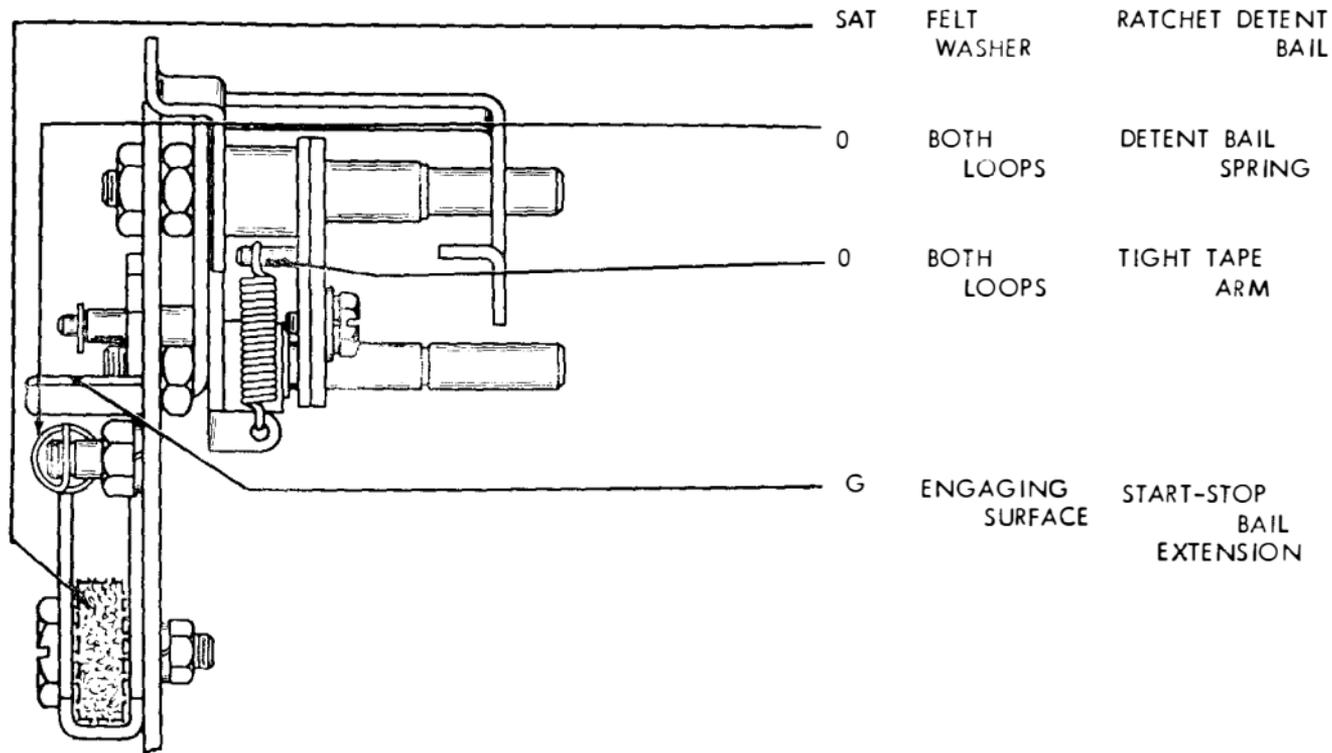
FILL RESERVOIR CAM
OILER

28E AND 28H
TRANSMITTER-
DISTRIBUTOR UNITS
LUBRI-
CATION

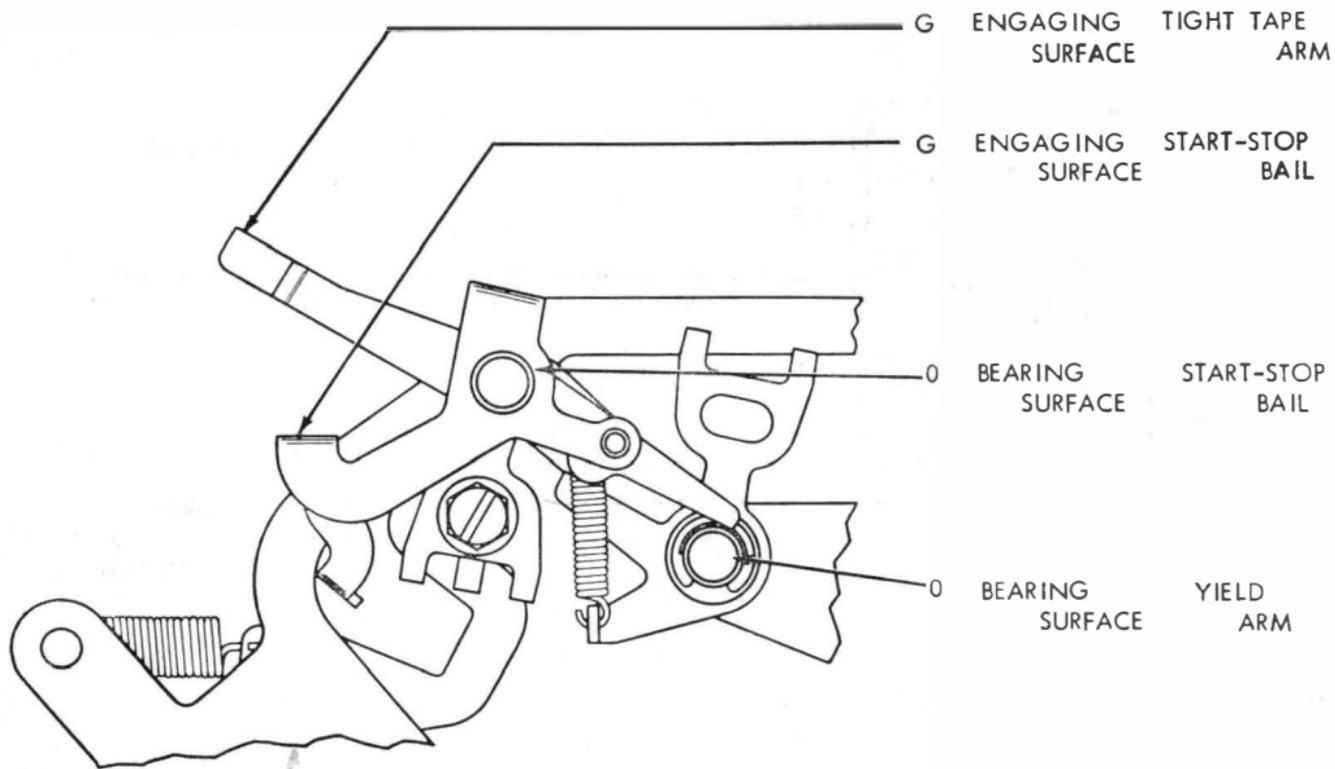
P34.604

Page 11

2.10 Center-plate Assembly



2.11 Center-plate Assembly (Cont'd)



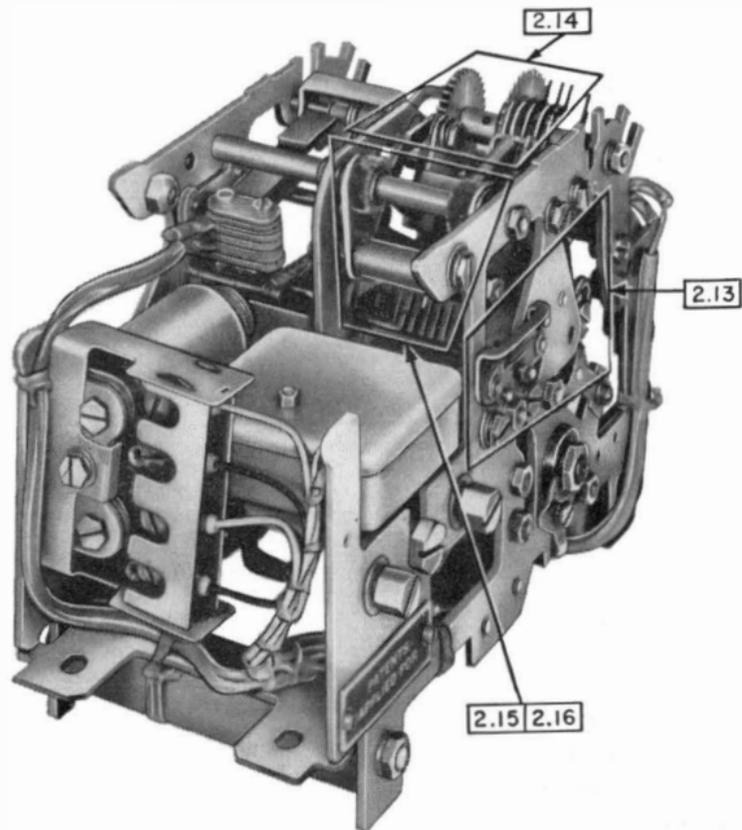
28E AND 28H
TRANSMITTER-
DISTRIBUTOR
UNIT LUBRI-
CATION

P34.604

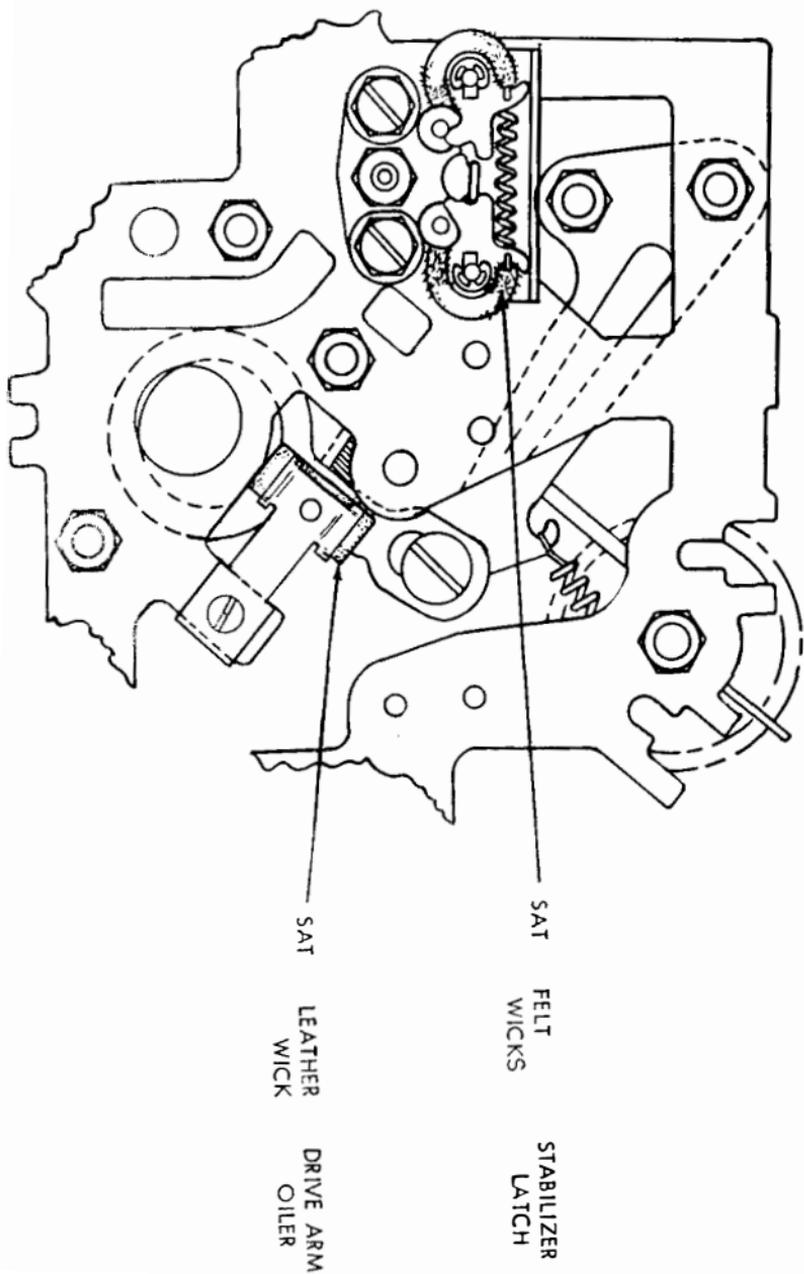
12

FRONT PLATE ASSEMBLY

2.12 Stabilizer, Sensing and Feed Mechanism, and Transfer Mechanism



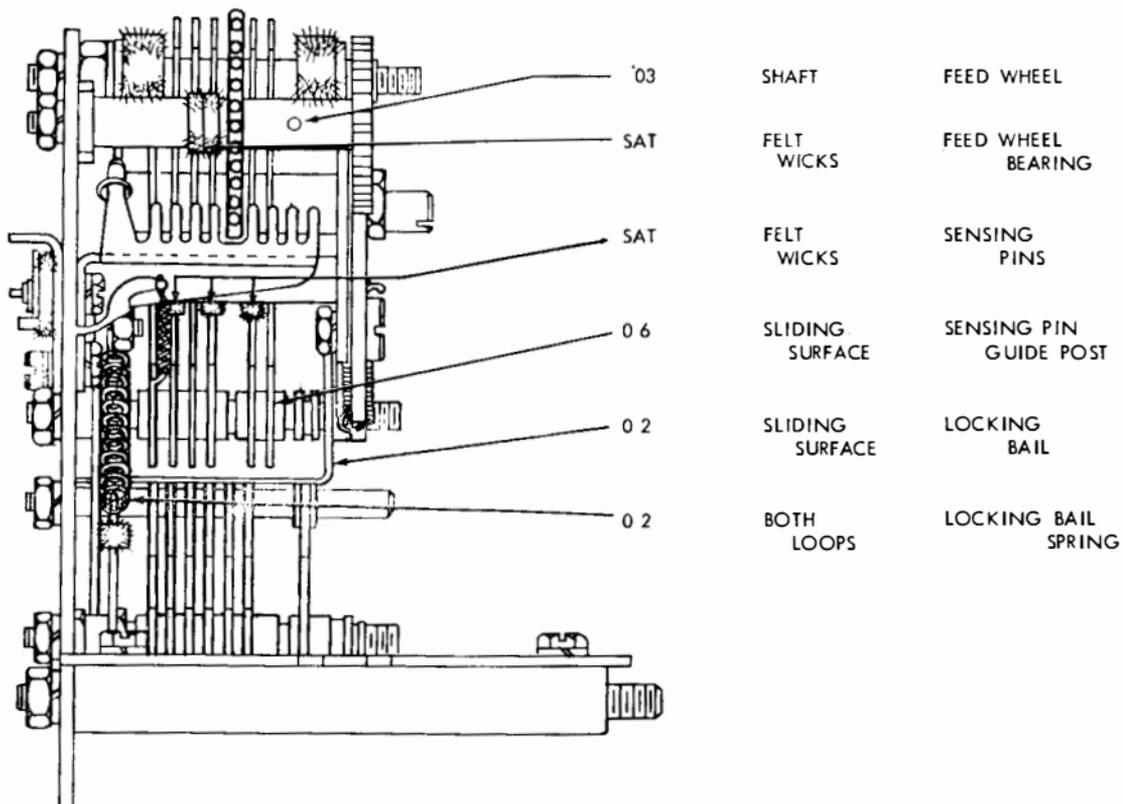
2.13 Stabilizer



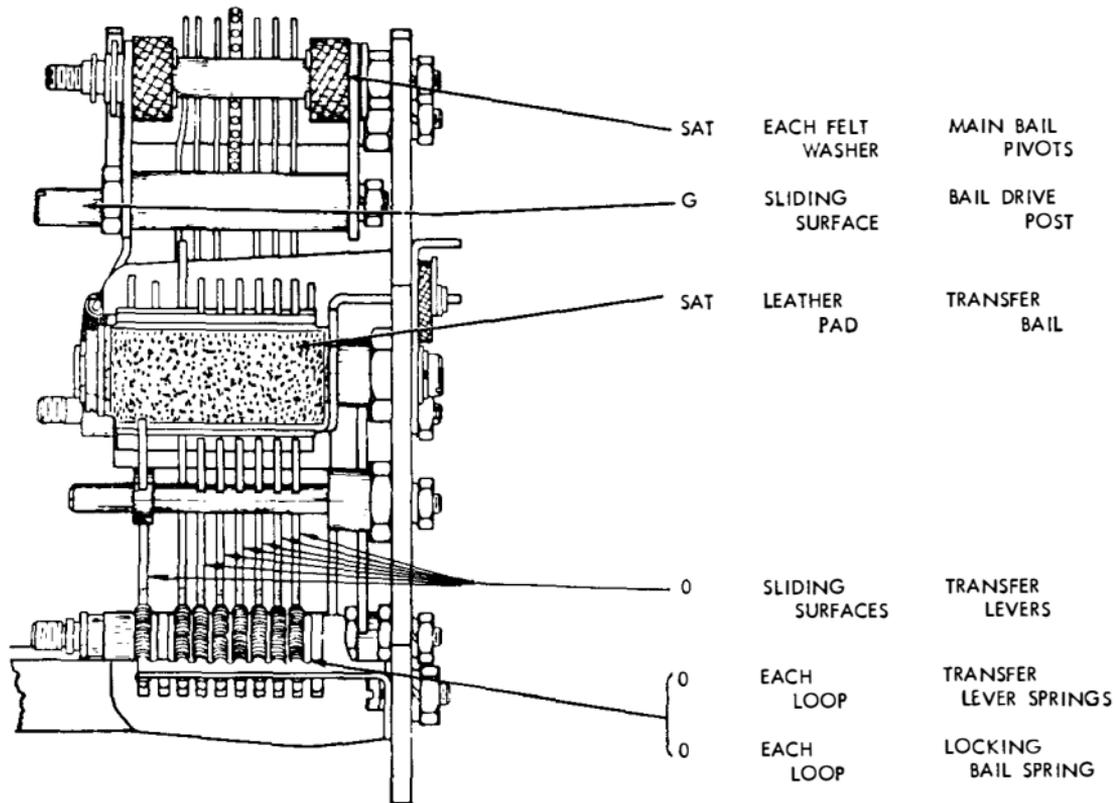
28E AND 28H
TRANSMITTER-
DISTRIB-
UTOR UNITS
LUBRI-
CATION

P34.604

2.14 Sensing and Feed Mechanism



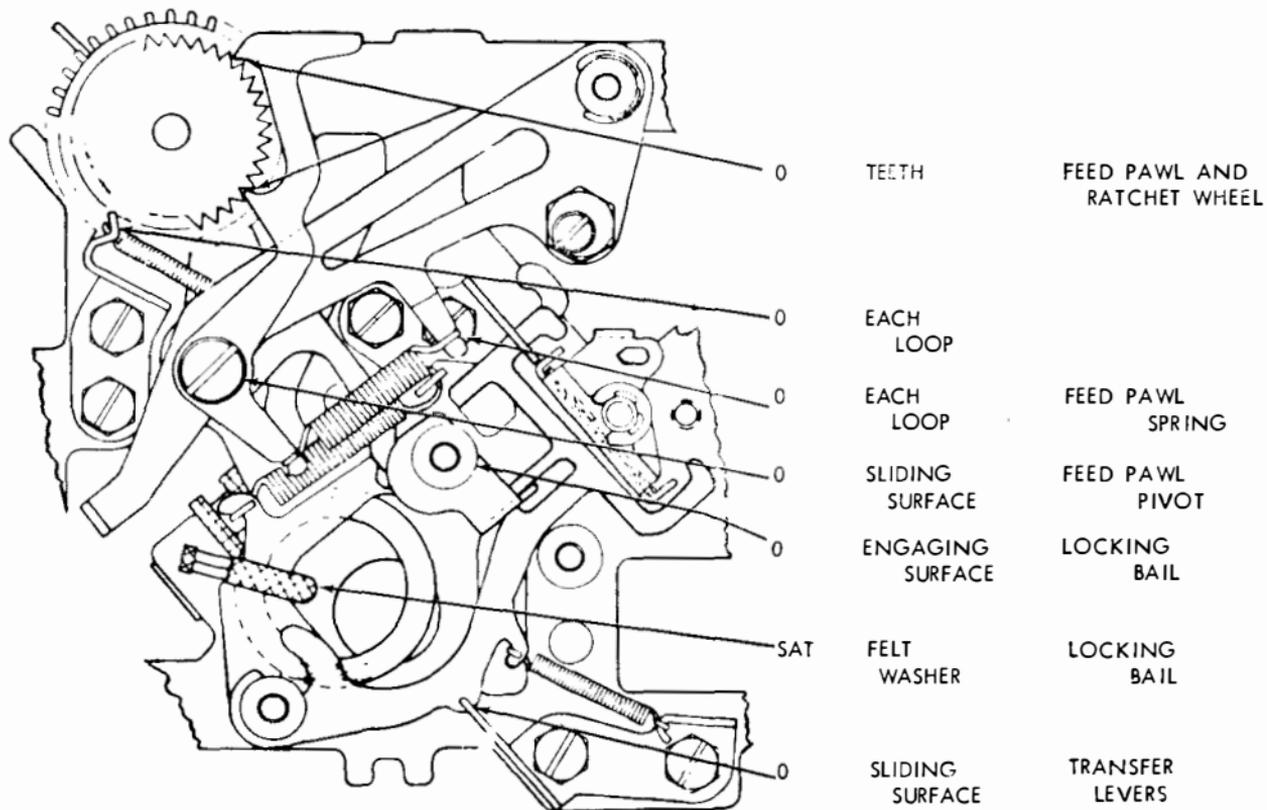
2.15 Transfer Mechanism



28E AND 28H
 TRANSMITTER-
 DISTRIB-
 UTOR UNITS
 LUBRI-

P34.604

2.16 Transfer Mechanism (Cont'd)



3. REFERENCE TO BELL SYSTEM PRACTICES

3.01 The following Bell System Practices provide additional information that may be required in connection with this section.

| <u>Subject</u> | <u>Section</u> |
|--|----------------|
| Teletypewriter Apparatus, General Requirements and Procedures | P30.012 |
| Teletypewriter Apparatus, Lubrication, General Requirements | P30.011 |
| Teletypewriter Apparatus, Preparation of Apparatus for Installation | P33.014 |
| 28E and 28H Transmitter-Distributor Units, Requirements, Procedures, and Disassembly | P34.633 |