## 28F, 28G, 28LA, AND 28LB

## TRANSMITTER-DISTRIBUTOR UNITS

## REQUIREMENTS AND ADJUSTMENTS

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- 1.03 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.
- 1.04 When the requirement calls for the clutch to be disengaged, the clutch-shoe lever must be fully latched between its triplever and latchlever so that the clutch shoes release their tension on the clutch drum. When engaged, the clutch-shoe lever is unlatched and the clutch shoes are wedged firmly against the clutch drum.

Note: When either the sensing or distributor shaft is rotated by hand, the clutch does not fully disengage upon reaching its stop position. In order to relieve the drag on the clutch and permit the main shaft to rotate freely, apply pressure on a lug of the clutch disc with a screwdriver to cause it to engage its latchlever and thus disengage the internal-expansion clutch shoes.

1.05 The covers may be removed for inspection and minor repair of the unit; however, when more extensive maintenance is to be undertaken, it is recommended that the unit be removed from its subbase to disconnect the power and to permit the unit to be inverted. Separate the unit from its subbase by sliding the unit toward the front to disconnect the electrical connectors and then lift upward.

- 1.06 In addition to the usual teletypewriter tools and materials, the following are required to maintain the transmitter-distributor units with pull-back mechanism.
  - (a) TP172060 Adjusting Tool: To bend the storing switch mechanism, transfer-type reading contacts.
  - (b) TP170283 Gauge: To adjust the tape guide.
  - (c) 28B Stroboscopic Test Set: To check contact-timing measurements.
- 1.07 Unless otherwise indicated, the requirements and adjustments in 2. of this section are common to the units both with and without the pull-back mechanism.

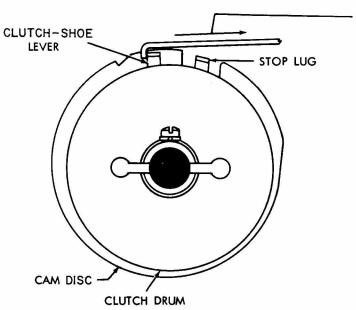
## 2. REQUIREMENTS AND ADJUSTMENTS

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 apparatus 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), (B), (C), etc.

#### A. Transmitter-Distributor Unit

## 2.02 Clutch Mechanism

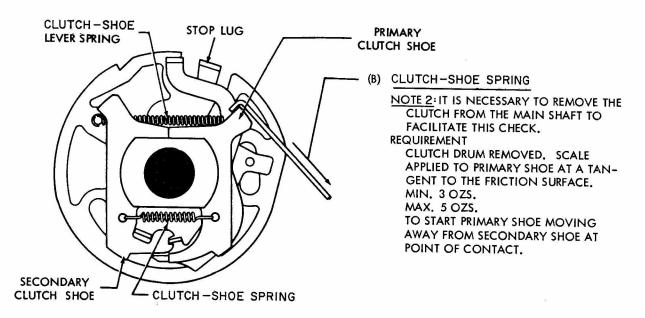
NOTE I: REQUIREMENTS A AND B ARE ADJUSTED AT THE FACTORY AND SHOULD NOT BE DISTURBED UNLESS ASSOCIATED MECHANISMS HAVE BEEN REMOVED FOR SERVICING OR THERE IS REASON TO BELIEVE THAT THE REQUIREMENTS ARE NOT MET. THE FOLLOWING REQUIREMENTS APPLY TO BOTH THE SENSING CLUTCH AND DISTRIBUTOR CLUTCH.



## (A) CLUTCH-SHOE LEVER SPRING

#### REQUIREMENT

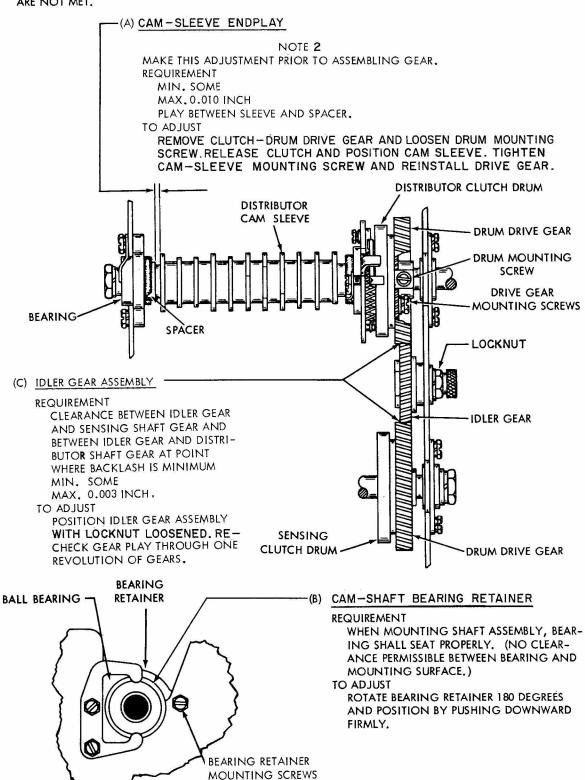
CLUTCH ENGAGED AND CAM DISC HELD TO PREVENT TURNING. SCALE PULLED AT TANGENT TO CLUTCH. MIN. 15 OZS. MAX. 20 OZS. TO MOVE CLUTCH-SHOE LEVER IN CONTACT WITH STOP LUG.



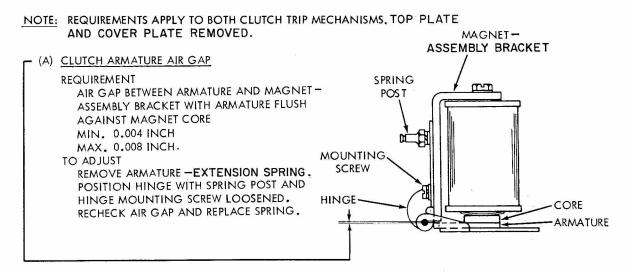
#### 2.03 Cam Shafts

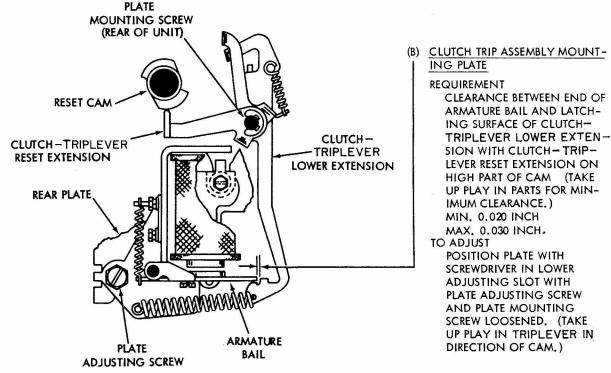
NOTE I: THE FOLLOWING REQUIREMENTS APPLY TO BOTH THE DISTRIBUTOR AND SENSING CAM SLEEVES.

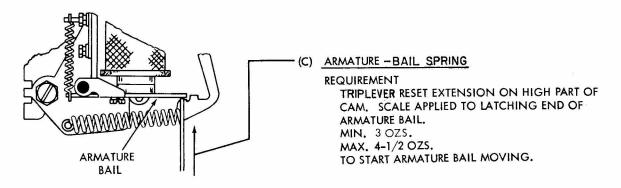
THESE MECHANISMS SHOULD NOT BE DISTURBED UNLESS THERE IS REASON TO BELIEVE THE REQUIREMENTS ARE NOT MET.



#### 2.04 Clutch Trip Mechanism

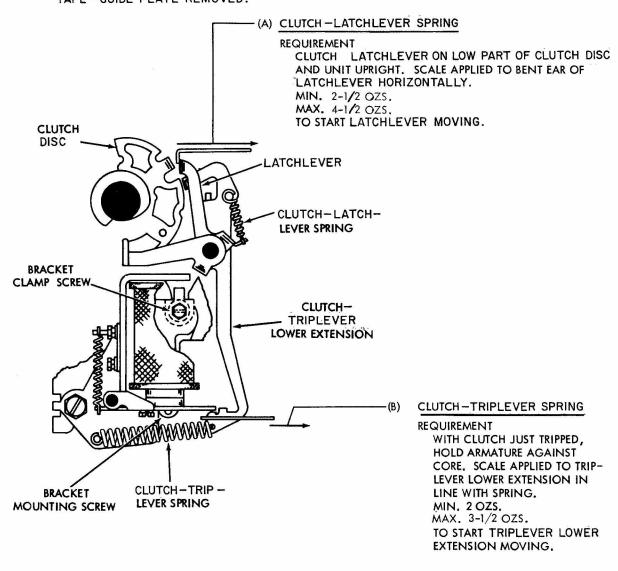






#### 2.04 Clutch Trip Mechanism (Cont)

NOTE: REFER TO REQUIREMENTS IN PRECEDING PARAGRAPH. TAPE-GUIDE PLATE REMOVED.



#### (C) MAGNET BRACKET

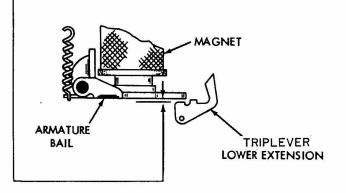
#### REQUIREMENT

CLEARANCE BETWEEN ARMATURE BAIL AND TOP EDGE OF TRIPLEVER LOWER EXTENSION WITH CLUTCH-TRIPLEVER RESET EXTENSION ON HIGH PART OF CAM AND ARMATURE FLUSH AGAINST CORE (TAKE UP PLAY FOR MINIMUM CLEARANCE.) MIN. 0.030 INCH

MAX. 0.040 INCH.

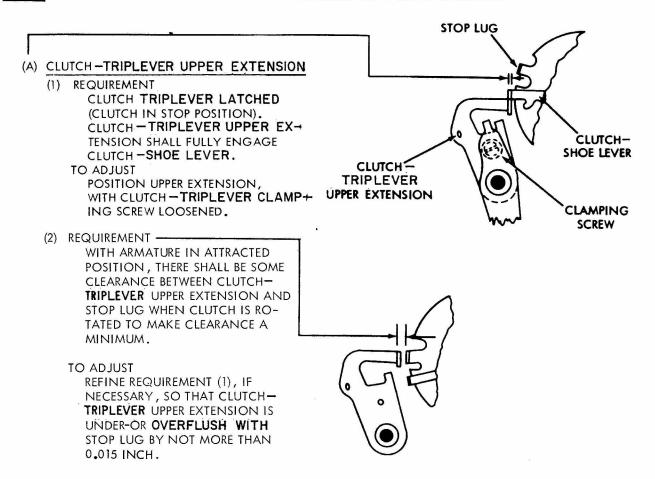
TO ADJUST

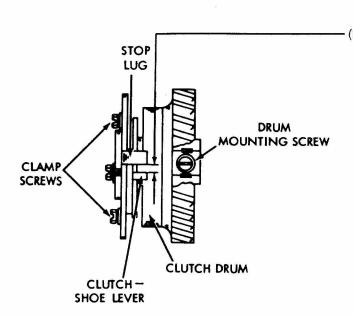
INSERT SCREWDRIVER IN UPPER SLOT AND PIVOT BRACKET, WITH BRACKET MOUNTING SCREW AND CLAMP SCREW LOOSENED.



#### 2.05 Clutch Mechanism

#### NOTE I: REQUIREMENTS A AND B APPLY TO BOTH CLUTCHES. TOP PLATE REMOVED.





#### (B) CLUTCH—SHOE LEVER

#### REQUIREMENT

GAP BETWEEN CLUTCH—SHOE LEVER AND ITS STOP LUG SHALL BE 0.055 INCH TO 0.085 INCH GREATER WHEN CLUTCH IS ENGAGED THAN WHEN CLUTCH IS DISENGAGED.

#### TO ADJUST

ENGAGE A WRENCH OR SCREWDRIVER ON A SCREW ON THE ADJUSTING DISC. ROTATE DISC WITH CLAMP SCREWS LOOSENED AND CLUTCH DISENGAGED.

#### NOTE 2

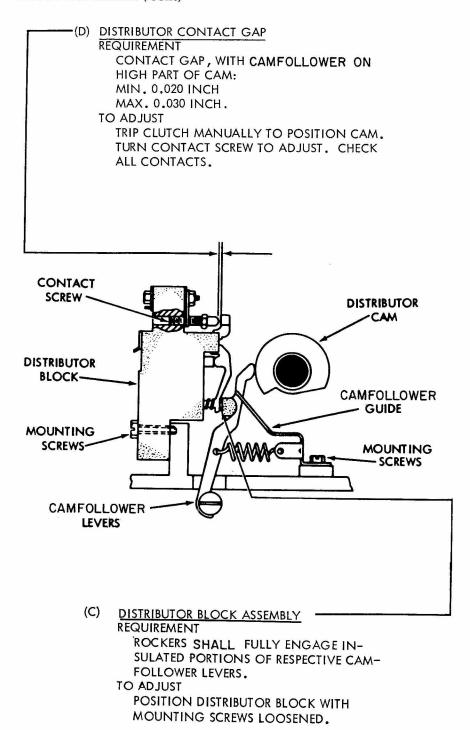
AFTER ADJUSTMENT, DISENGAGE CLUTCH, REMOVE DRUM MOUNTING SCREW AND ROTATE DRUM IN ITS NORMAL DIRECTION OF ROTATION TO MAKE CERTAIN THAT IT DOES NOT DRAG ON SHOE. IF DRUM DRAGS, REFINE ABOVE ADJUSTMENT.

## (A) DISTRIBUTOR ROCKER SPRING TO CHECK POSITION EACH CONTACT SCREW SO ITS CONTACT SURFACE IS ABOUT 1/32 INCH FROM EDGE OF BLOCK. REQUIREMENT -WITH COMPRESSION SPRINGS REMOVED, HOLD DISTRIBUTOR BLOCK IN HORIZON-TAL POSITION. PUSH SPRING SCALE DOWNWARD (VERTICALLY). MIN. 3 OZS. MAX. 4 OZS. TO SEPARATE CONTACTS. SEE NOTE CONTACT SCREW -ROCKER SPRING . CONTACT ROCKER DISTRIBUTOR BLOCK . COMPRESSION SPRING DISTRIBUTOR CAM SLEEVE DISTRIBUTOR-BLOCK CAMFOLLOWER MOUNTING SCREWS **LEVER** CAMFOLLOWER-LEVER GUIDE annine CAMFOLLOWER-LEVER SPRING (B) DISTRIBUTOR ROCKER-COMPRESSION SPRINGS -REQUIREMENT WITH COMPRESSION SPRINGS INSTALLED, AND BLOCK IN A HORIZONTAL POSITION, APPLY SPRING SCALE AT LOWER END OF ROCKER AND PUSH DOWNWARD. MIN. 6-1/2 OZS. MAX. 9-1/2 OZS. TO SEPARATE CONTACTS.

### NOTE

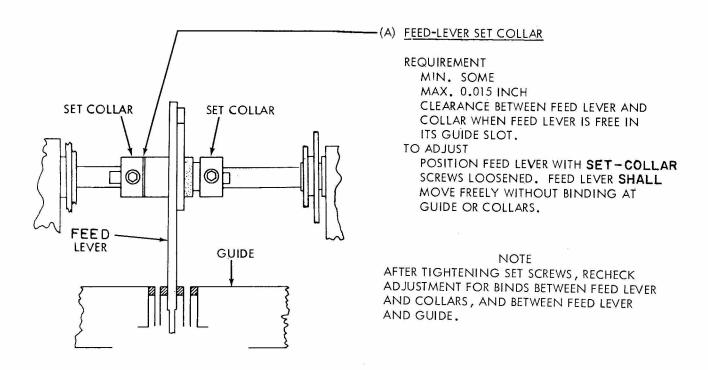
WITH DISTRIBUTOR BLOCK REMOVED, ADJUST CONTACTS SO THAT THERE IS 0.070 TO 0.080 INCH BETWEEN ROCKER LEVERS AND OIL GUARD.

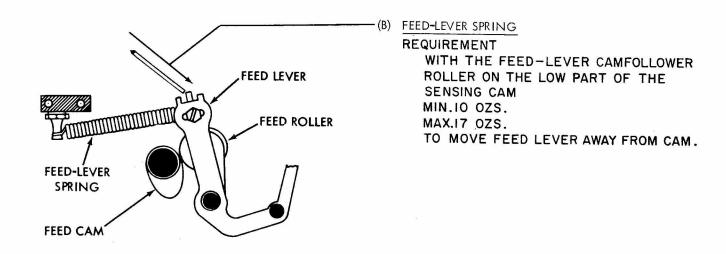
#### 2.06 Distributor Contact Mechanism (Cont)



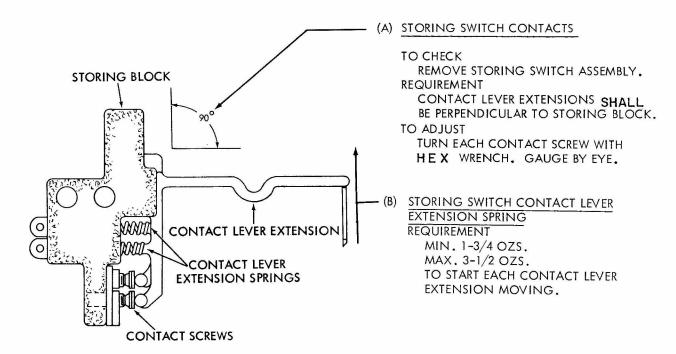
NOTE
FOR REFINEMENT OF DISTRIBUTOR CONTACT ADJUSTMENTS, REFER TO
CONTACT TIMING REQUIREMENTS.

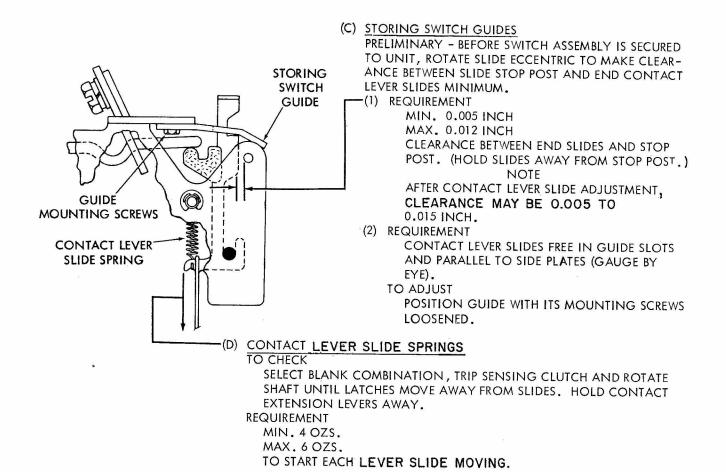
#### 2.07 Feed-Lever Mechanism





## 2.08 Storing Switch Mechanism (Nontransfer Type) (Unit Without Pull-back Mechanism)





# INSTRUCTIONS FOR REPLACING STORING SWITCH ASSEMBLY

#### REQUIREMENT

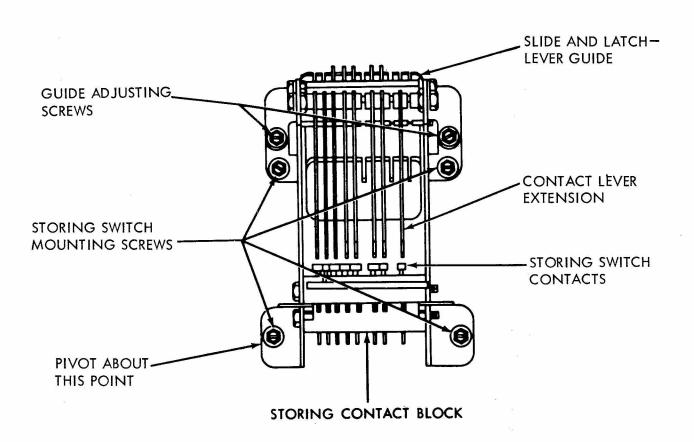
STORING SWITCH ASSEMBLY SHALL ALIGN WITH LATCHLEVERS SO THAT LATCHLEVERS AND SLIDES FUNCTION WITHOUT BINDING.

#### TO CHECK

MANUALLY PUSH LATCH-BAIL FOL-LOWER AWAY FROM CAM UNTIL LATCHES ARE FREE FROM GUIDE. RELEASE LATCH-BAIL FOLLOWER AND NOTE IF LATCHES FALL INTO THEIR RESPECTIVE SLOTS.

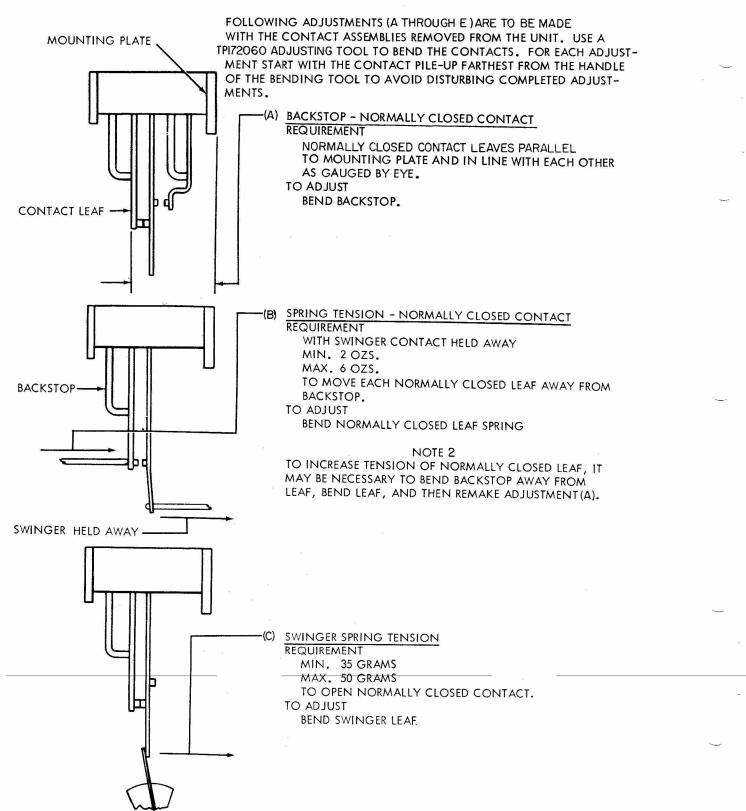
#### TO ADJUST

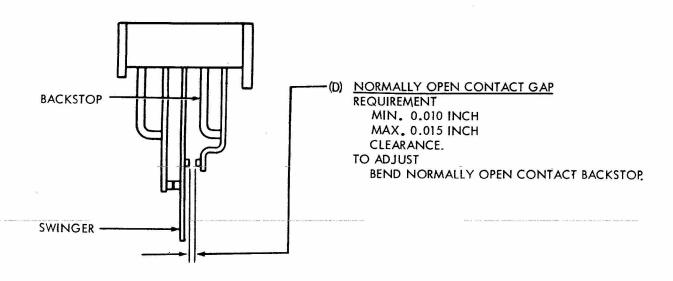
PIVOT STORING SWITCH WITH STOR-ING SWITCH MOUNTING SCREWS LOOSENED. RECHECK REQUIREMENT.

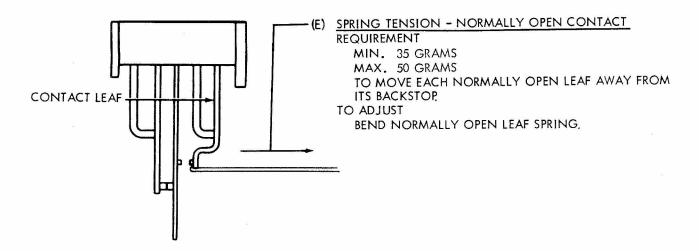


### 2.09 Transfer-type Storing Switch Mechanism (Unit With Pull-back Mechanism)

#### NOTE I







NOTE
TO INCREASE TENSION OF NORMALLY OPEN LEAF SPRING,
IT MAY BE NECESSARY TO BEND BACKSTOP AWAY FROM
LEAF, BEND LEAF, AND THEN REMAKE ADJUSTMENT (E).

## 2.09 Transfer-type Storing Switch Mechanism (Unit With Pull-back Mechanism) (Cont)

## INSTRUCTIONS FOR REPLACING STORING SWITCH ASSEMBLY (TRANSFER TYPE)

PLACE SWITCH ASSEMBLY ON LOWER SURFACE OF MAIN CASTING. EXERCISE CARE IN SEATING LEVER SLIDES AGAINST PUSHLEVERS AND LATCHLEVERS IN APPROPRIATE SLOT OF LEVER SLIDE GUIDE.

## STORING SWITCH ASSEMBLY

#### REQUIREMENT

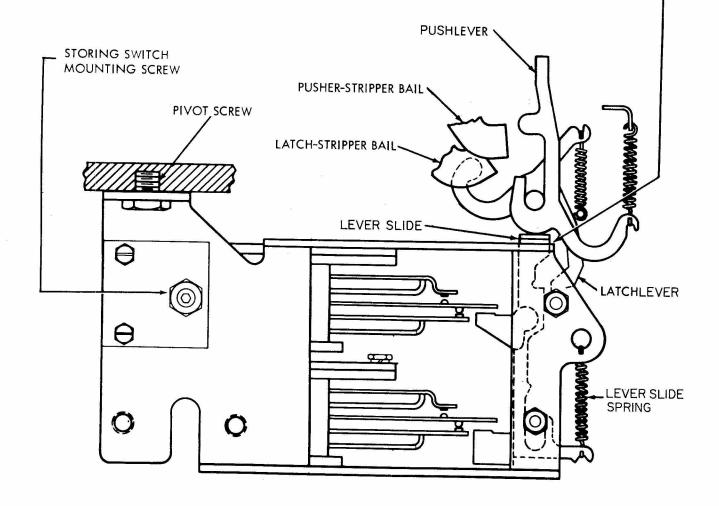
WITH TOP PLATE IN PLACE, SELECT A LTRS-BLANK-LTRS COMBINATION AND OBSERVE LATCH-AND PUSHLEVER ACTION. STORING SWITCH SHALL ALIGN WITH LATCHLEVER SO THAT LATCHLEVERS AND SLIDES FUNCTION WITHOUT BINDING.

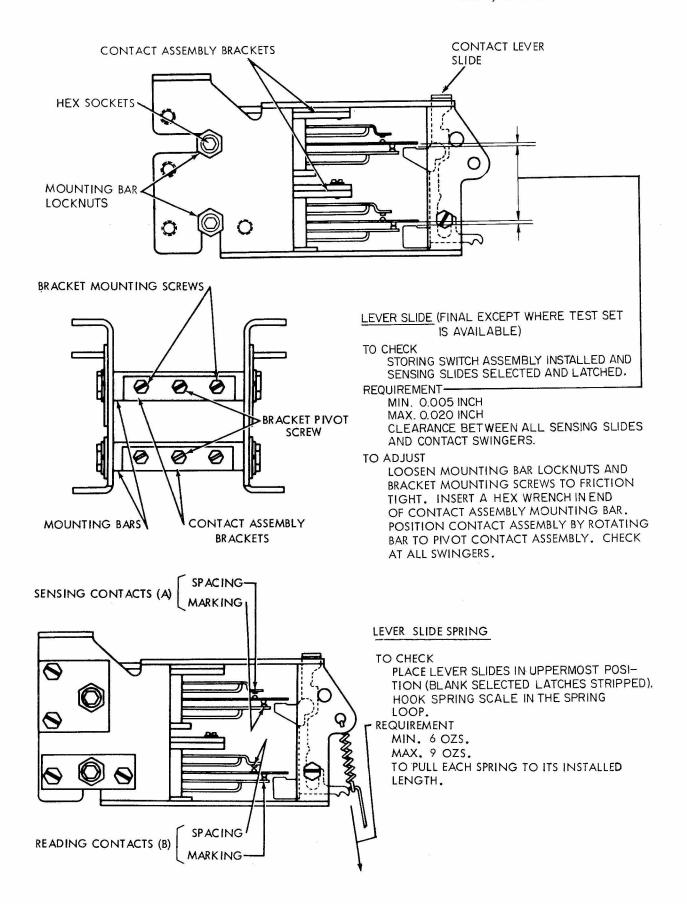
#### TO ADJUST

POSITION SWITCH ASSEMBLY WITH ITS MOUNTING SCREWS LOOSENED. RECHECK REQUIREMENT AFTER TIGHTENING SCREWS.

#### NOTE

A MINOR ADJUSTMENT OF THE SENSING PIN AND PUSHLEVER GUIDE MAY BE NECESSARY.





## 2.10 Tape Lid Mechanism (Tape Lid Assembly Without Tape-lid Spring) (Unit Without Pull-back Mechanism)

#### NOTE I

REMOVE TOP AND TAPE-GUIDE PLATES. LUBRICATE PRIOR TO ADJUSTMENT.

(1) REQUIREMENT (PRELIMINARY)

MIN. SOME

MAX. 0.010 INCH.

CLEARANCE BETWEEN PIVOT SHOULDER AND TAPE LID WHEN LID IS PRESSED AGAINST NOTCH IN TAPE-GUIDE PLATE, AND FEED-WHEEL SLOTS AND TAPE -OUT PIN HOLES ARE LINED UP.

TO ADJUST

LOOSEN TAPE-LID BRACKET MOUNTING NUTS. USING A TP 15674.3 GAUGE , LINE UP FEED-WHEEL GROOVE IN TAPE LID WITH SLOT IN TAPE-GUIDE PLATE. POSITION TAPE-LID BRACKET TO MEET REQUIREMENT.

(2) REQUIREMENT

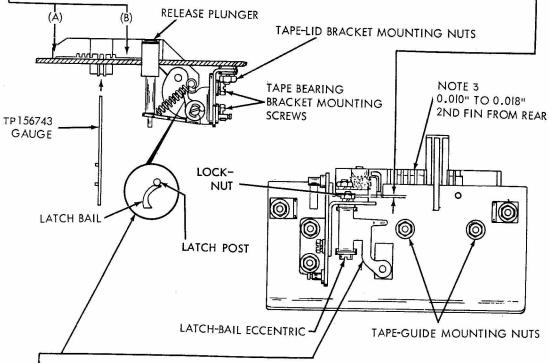
TAPE-LID FRONT BEARING SURFACE (A) SHALL TOUCH TAPE-GUIDE PLATE. CLEARANCE (B) MEASURED AT FIN OF TAPE LID IN LINE WITH REAR TAPE GUIDE (SEE NOTE 3): MIN. 0.010 INCH MAX. 0.018 INCH.

NOTE 2

WHEN BOTH PLATES ARE ASSEMBLED ON UNIT, LEFT EDGE OF LID MAY TOUCH TOP PLATE AND SOME CHANGE IN THIS CLEARANCE MAY BE EXPECTED.

TO ADJUST

WITH TAPE-LID BEARING BRACKET MOUNTING SCREWS FRICTION TIGHT, AND TAPE LID PRESSED AGAINST TAPE-GUIDE PLATE, POSITION BRACKET. RECHECK REQUIRE-MENT (1).



#### (3)REQUIREMENT

RELEASE PLUNGER SHALL HAVE SOME ENDPLAY WHEN LID IS LATCHED AGAINST TAPE-GUIDE PLATE.

TO ADJUST

WITH ECCENTRIC MOUNTING POST LOCKNUT FRICTION TIGHT AND LID RAISED, ROTATE HIGH PART OF ECCENTRIC TOWARD TAPE-GUIDE PLATE. CLOSE LID AND ROTATE ECCENTRIC TOWARD BRACKET UNTIL LATCH JUST FALLS UNDER FLAT ON POST. RECHECK BY DEPRESSING PLUNGER WITH LID HELD DOWN. TIP OF LATCH SHOULD CLEAR POST AS PLUNGER IS OPERATED.

## 2.11 Tape Lid Mechanism (With Tape-lid Spring)

#### NOTE I

REMOVE TOP AND TAPE-GUIDE PLATES. LUBRICATE MATING SURFACES PRIOR TO ADJUS-MENT.

#### (1) REQUIREMENT

MIN. SOME

MAX. 0.010 INCH

CLEARANCE BETWEEN PIVOT SHOULDER AND TAPE LID WHEN LID IS PRESSED AGAINST NOTCH IN TAPE-GUIDE PLATE, AND FEED-WHEEL SLOTS AND TAPE-OUT PIN HOLES ARE LINED UP.

#### TO ADJUST

LOOSEN TAPE-LID BRACKET MOUNTING NUTS. USING A TPI56743 GAUGE, LINE UP FEED-WHEEL GROOVE IN TAPE LID WITH SLOT IN TAPE-GUIDE PLATE. POSITION TAPE-LID BRACKET TO MEET REQUIREMENT.

#### (2) REQUIREMENT

WITH TAPE-LID FRONT BEARING SURFACE TOUCHING TAPE-GUIDE PLATE, CLEARANCE

BETWEEN TAPE LID AND TAPE GUIDE PLATE

MIN. 0.010 INCH

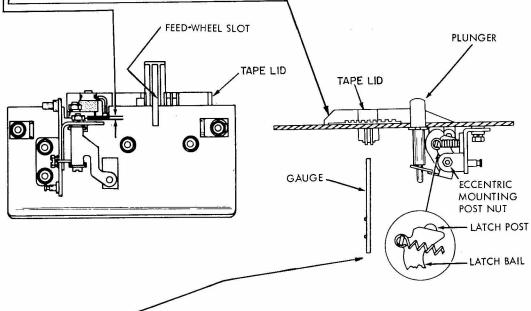
MAX. 0.018 INCH

MEASURED AT TAPE-LID FIN IN LINE WITH REAR TAPE GUIDE (2ND. FIN FROM REAR).
NOTE 2

WHEN BOTH TOP AND TAPE-GUIDE PLATES ARE ASSEMBLED ON UNIT, LEFT EDGE OF LID MAY TOUCH TOP PLATE AND SOME CHANGE IN THIS CLEARANCE MAY BE EXPECTED,

#### TO ADJUST

WITH TAPE-LID BEARING BRACKET MOUNTING SCREWS FRICTION TIGHT, AND TAPE LID PRESSED AGAINST TAPE-GUIDE PLATE, POSITION BEARING BRACKET. RECHECK REQUIRE-MENT (1).



#### (3) REQUIREMENT

SOME ENDPLAY IN RELEASE PLUNGER WHEN LID IS LATCHED AGAINST TAPE-GUIDE PLATE.

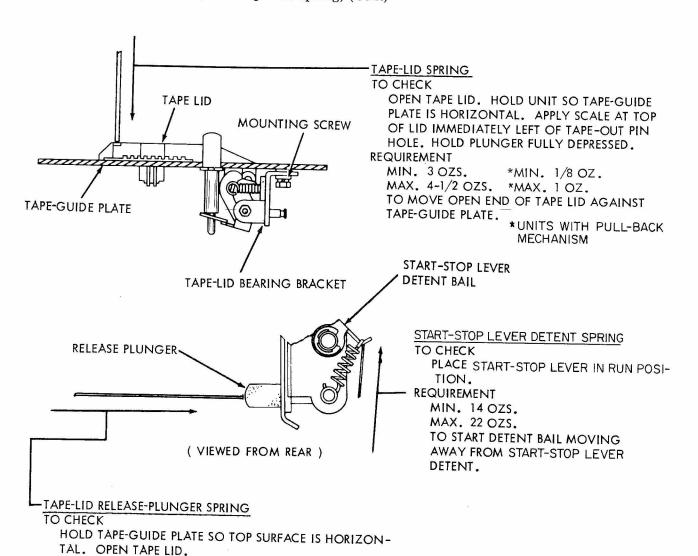
#### TO ADJUST

WITH ECCENTRIC MOUNTING POST NUT FRICTION TIGHT AND TAPE LID RAISED, ROTATE HIGH PART OF ECCENTRIC POST TOWARDS MOUNTING BRACKET. CLOSE TAPE LID. ROTATE ECCENTRIC COUNTERCLOCKWISE (AS VIEWED FROM SLOTTED END OF ECCENTRIC POST) UNTIL FLAT OF LATCH POST FULLY ENGAGES LATCH-BAIL FLAT. ROTATE ECCENTRIC CLOCKWISE TO TAKE UP ALL PLAY IN PARTS, AND TO SEAT OPEN END OF TAPE LID AGAINST TAPE-GUIDE PLATE.

### TO CHECK

WITH TAPE LID HELD DOWNMANUALLY, LATCH TIP SHOULD CLEAR LATCH POST WHEN RELEASE BUTTON IS OPERATED. WITH TAPE LID LATCHED, TIP OF LATCH SHOULD PROJECT BEYOND FLAT OF LATCH POST, AND THERE SHOULD BE SOME ENDPLAY IN RELEASE BUTTON.

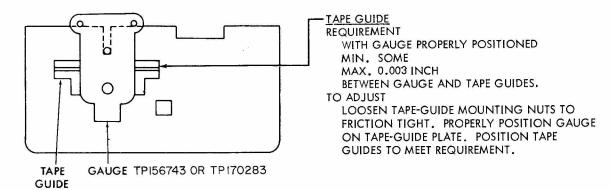
## 2.11 Tape Lid Mechanism (With Tape-lid Spring) (Cont)



REQUIREMENT MIN. 28 OZS. MAX. 48 OZS.

TO START TAPE-LID BAIL MOVING.

#### 2.12 Tape-guide Plate



#### TAPE-GUIDE PLATE

#### (1) REQUIREMENT

SHOULDER OF FEED-WHEEL POST SHALL NOT INTERFERE WITH TOP-PLATE OR TAPE-GUIDE PLATE MOUNTING BRACKETS.

TO ADJUST

ROTATE FEED-WHEEL POST WITH ITS MOUNTING NUT LOOSENED.

#### (2) REQUIREMENT

TAPE-GUIDE PLATE SHALL REST FIRMLY AGAINST AT LEAST THREE PROJECTIONS OF THE FRONT AND REAR PLATES.

TO ADJUST

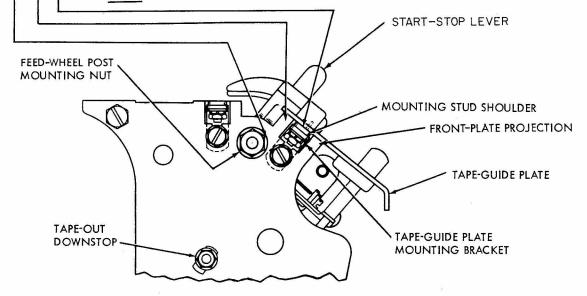
WITH TAPE-OUT DOWNSTOP IN ITS LOWERMOST POSITION, AND TAPE-GUIDE PLATE MOUNTING BRACKET (FRONT AND REAR) NUTS FRICTION TIGHT, TRIP CLUTCH AND ROTATE SHAFT UNTIL SENSING PINS ARE IN THEIR UPPERMOST POSITION. WITH TAPE LID RAISED AND START-STOP LEVER IN RUN POSITION, PRESS TAPE-GUIDE PLATE INTO POSITION. GUIDE MOUNTING SCREWS INTO NOTCHES OF FRONT AND REAR PLATES, AND PLACE SENSING PINS ADJACENT TO LEFT EDGE OF GUIDE PLATE. PLACE TAPE-OUT PIN INTO ITS HOLE. TIGHTEN EACH BRACKET MOUNTING NUT.

#### (3) REQUIREMENT

OUTER EDGES OF MOUNTING BRACKETS AND OUTER EDGES OF MOUNTING STUD SHOULDERS SHALL ALIGN AND PROJECT EQUALLY ON FRONT AND REAR BRACKETS.

TO ADJUST

MOVE TAPE-GUIDE PLATE TOWARD FRONT OR REAR. TIGHTEN NUTS ONLY AFTER TOP PLATE IS ADJUSTED.



## 2.13 Top Plate Assembly

#### IOP PLATE

#### (1) REQUIREMENT

TOP PLATE FLUSH TO 0.003 INCH UNDERFLUSH WITH TAPE-GUIDE PLATE WITHIN WIDTH -OF TAPE LID.

#### TO ADJUST

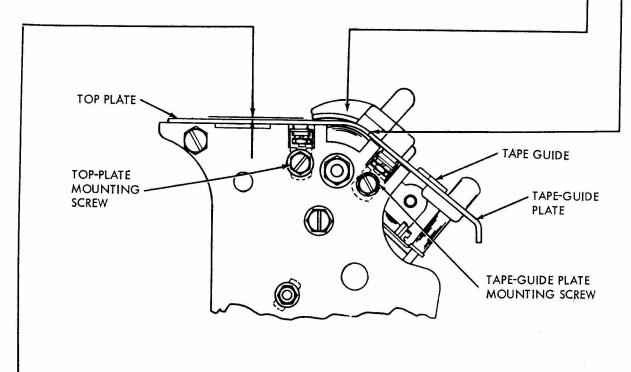
LOOSEN MOUNTING BRACKET NUTS UNTIL BRACKETS ARE FRICTION TIGHT. PRESS TOP PLATE INTO POSITION. TOP PLATE SHALL REST ON AT LEAST THREE PROJECTIONS OF SIDE PLATES. MAKE SURE THE TIGHT-TAPE ARM EXTENSION IS UNDER THE TOP PLATE.

### (2) REQUIREMENT

FEED-WHEEL SLOT AND TAPE-GUIDE PLATE SLOT SHALL LINE UP.-

TO ADJUST

MOVE TOP PLATE TO LINE UP FEED-WHEEL SLOT. DO NOT DISTURB REQUIREMENT (2) OF TAPE-GUIDE PLATE ADJUSTMENT.



#### (3) REQUIREMENT

WITH TAPE LID LATCHED, CLEARANCE BETWEEN TAPE-LID EXTENSION COVERING FEED-WHEEL SLOT, AND TOP PLATE

MIN. 0.010 INCH

MAX. 0.020 INCH

MEASURED AT CURVED PORTION OF TOP PLATE, AND

MIN. 0.010 INCH

MAX. 0.025 INCH

MEASURED AT FLAT PORTION OF TOP PLATE.

**ALSO** 

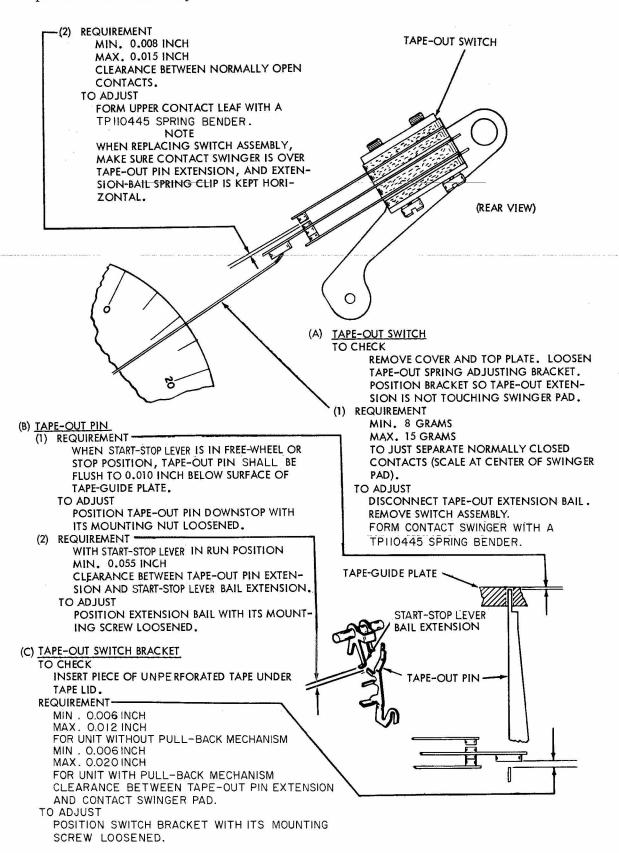
MIN. 0.010 INCH

MAX. 0.018 INCH

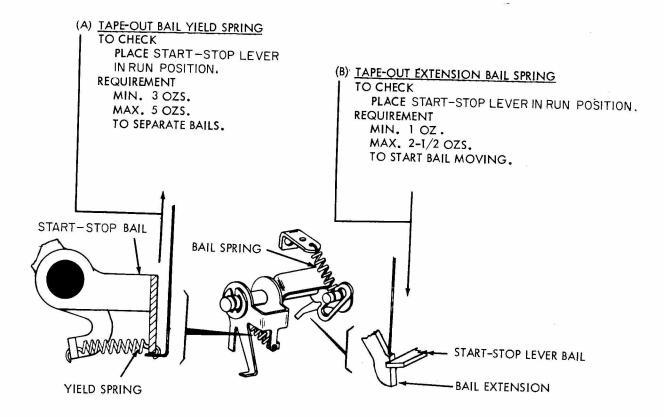
CLEARANCE BETWEEN TAPE LID AND TAPE-GUIDE PLATE MEASURED IN AREA BETWEEN TAPE GUIDES (PLAY IN TAPE LID TAKEN UP TOWARD TAPE-GUIDE PLATE ). TO ADJUST

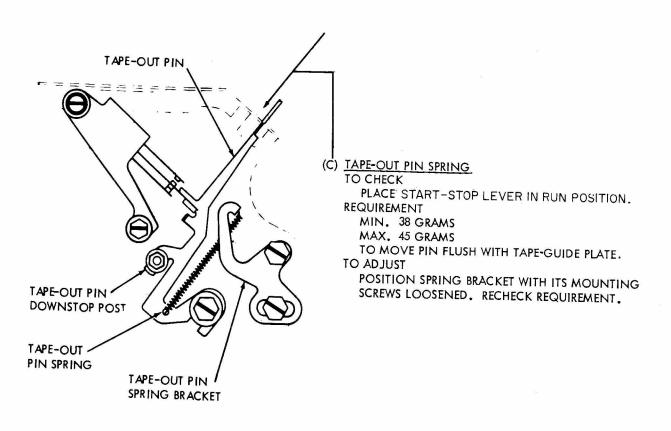
LOOSEN TWO SCREWS HOLDING TAPE-LID MOUNTING BRACKETS TOGETHER, AND POSITION TAPE LID. RECHECK ADJUSTMENTS (1) AND (2) OF TAPE LID ADJUSTMENT.

#### 2.14 Tape-out Switch Assembly

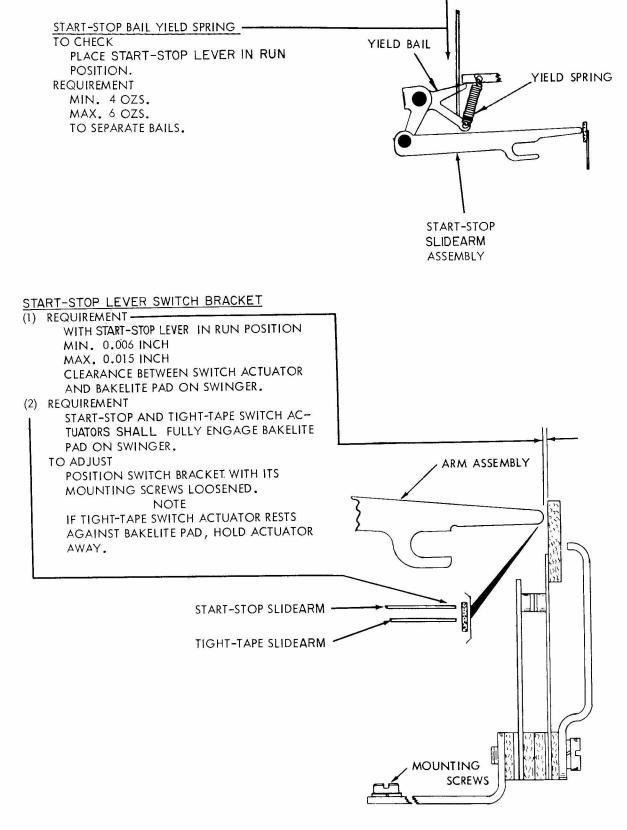


## 2.15 Tape-out Pin and Bail Assembly

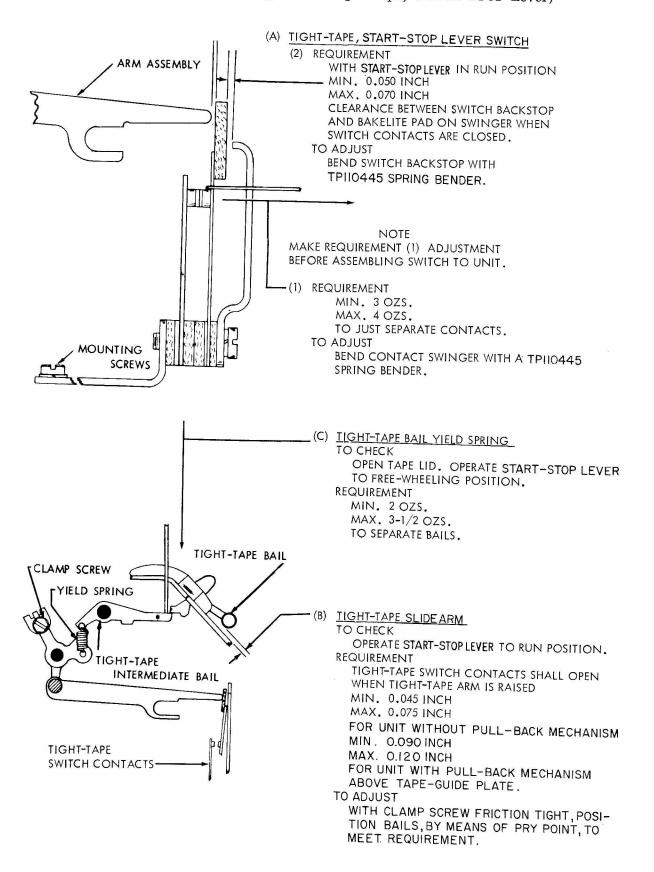




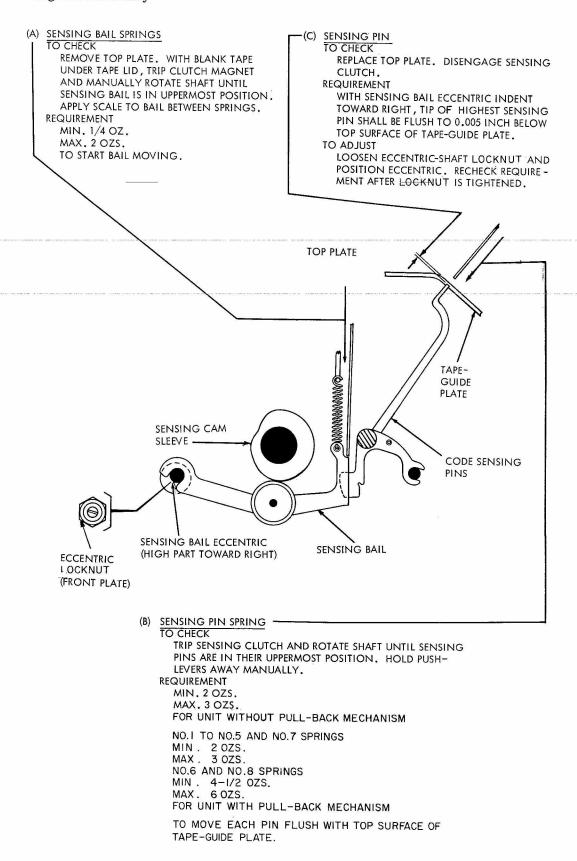
#### 2.16 START-STOP Switch Assembly



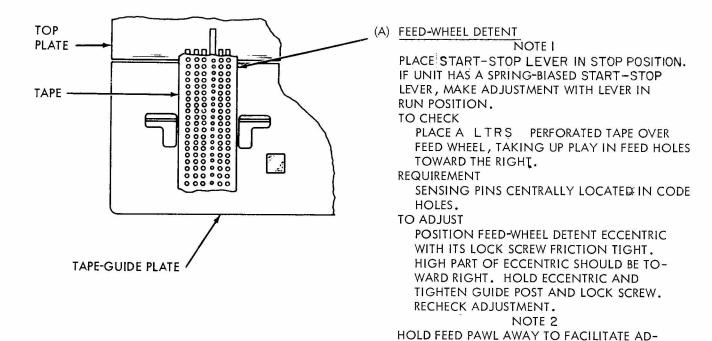
## 2.17 Tight-tape Mechanism (Units Equipped With Tight-Tape, START-STOP Lever)



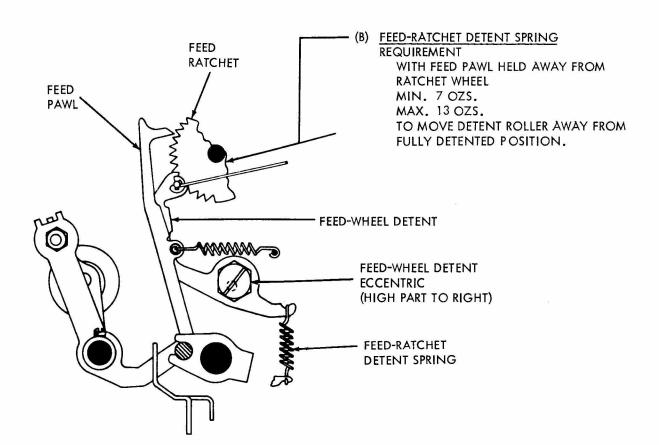
#### 2.18 Sensing Pin Assembly

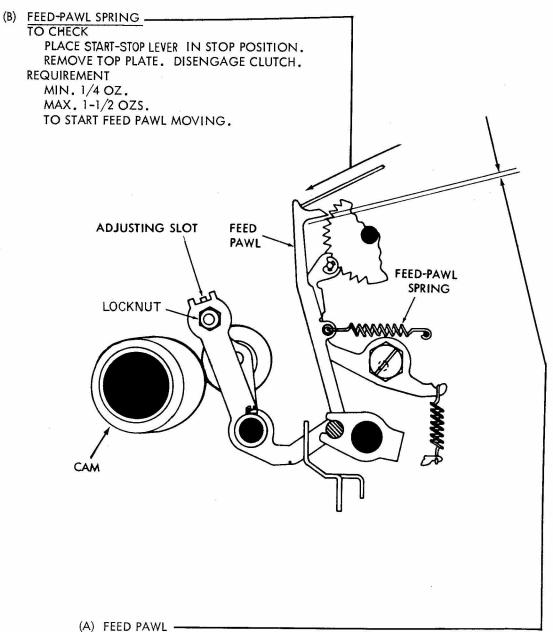


#### 2.19 Tape Feed Mechanism



JUSTMENT.





#### TO CUECK

#### TO CHECK

PLACE START-STOP LEVER IN RUN POSITION.
REMOVE TOP PLATE. TRIP CLUTCH, AND ROTATE CAM
SHAFT UNTIL FEED ROLLER IS ON HIGH PART OF CAM.
ROTATE RATCHET WHEEL UNTIL OIL HOLE IS UP. TAKE
UP PLAY BY PRESSING DOWN LIGHTLY ON RIGHT END
OF FEED-PAWL BAIL.

#### REQUIREMENT

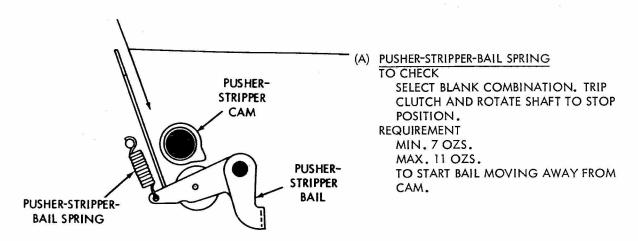
MIN. SOME

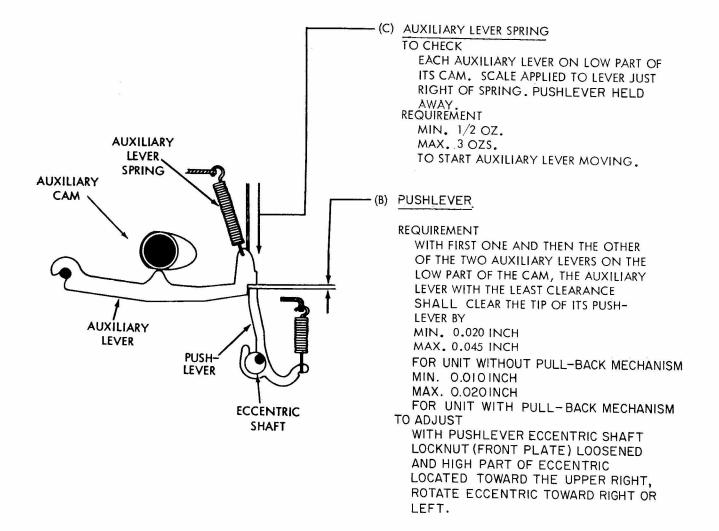
MAX. 0.003 INCH

CLEARANCE BETWEEN FEED PAWL AND RATCHET TOOTH. TO ADJUST

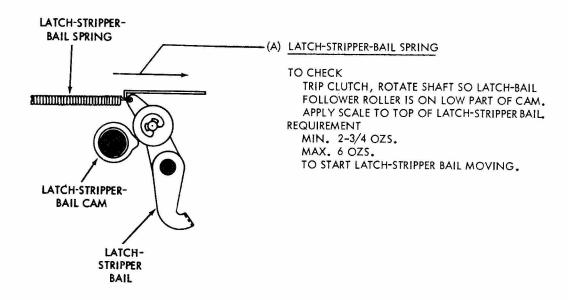
POSITION FEED LEVER BY MEANS OF THE ADJUSTING SLOT WITH ITS LOCKNUT LOOSENED.

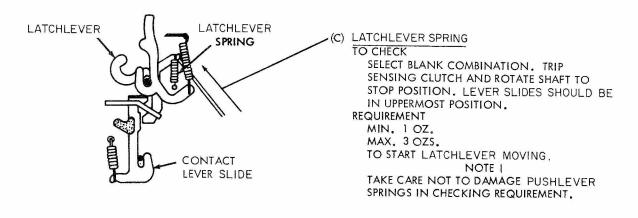
#### 2.20 Sensing Mechanism

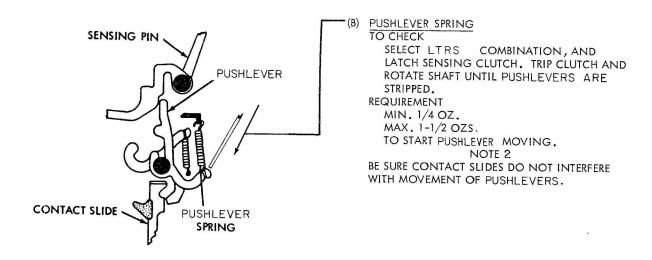




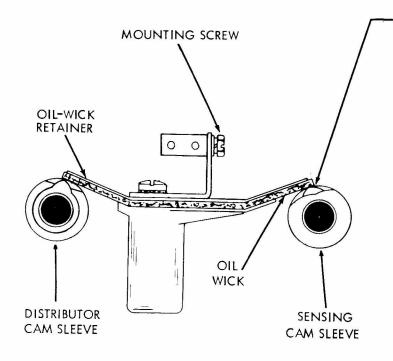
## 2.21 Sensing Mechanism Springs







## 2.22 Oil Reservoir Assembly



#### OIL RESERVOIR

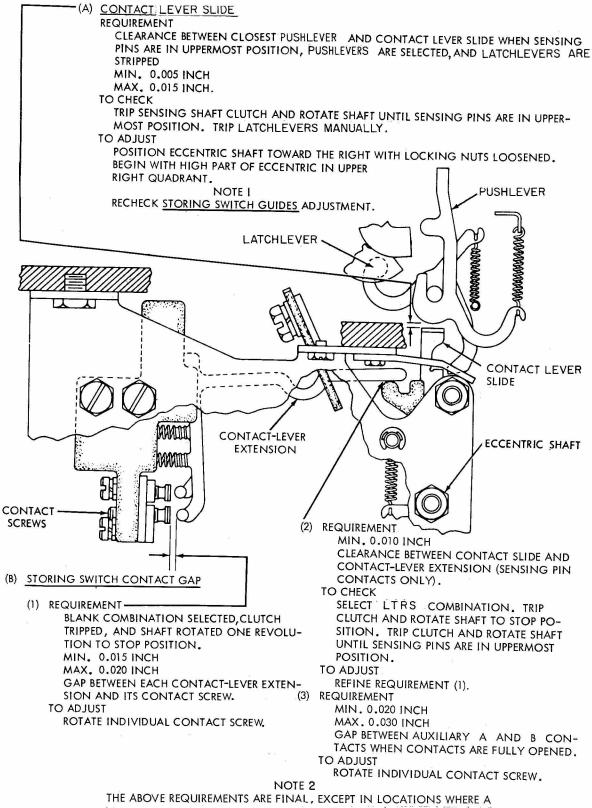
#### REQUIREMENT

EACH OIL WICK RESTS LIGHTLY ON HIGH PARTS OF FRONT AND REAR CAM OF EACH CAM SLEEVE.

#### TO ADJUST

TRIP BOTH ARMATURES AND ROTATE SHAFT UNTIL HIGH PART OF FRONT AND REAR CAM OF EACH SLEEVE IS UNDER ITS WICK. POSITION OIL RESERVOIR ASSEMBLY WITH ITS MOUNTING SCREWS (4) LOOSENED. WHEN CAM SLEEVE IS ROTATED, TEETH OF WICK RETAINER SHALL NOT DEFLECT UPWARD MORE THAN 1/32 INCH (GAUGE BY EYE). REFINE ADJUSTMENT BY SLIGHTLY BENDING TEETH ON WICK COMB SPRING.

#### 2.23 Storing Switch Mechanism



THE ABOVE REQUIREMENTS ARE FINAL, EXCEPT IN LOCATIONS WHERE A IA TELETYPEWRITER TEST SET OR A 28A OR 28B STROBOSCOPIC TEST SET IS AVAILABLE.

#### 2.24 Cover and Panel Assembly

#### (A) COVER PLATE

(1) REQUIREMENT

COVER PLATE HELD FLUSH AGAINST TOP PLATE BY DETENT ACTION.

(2) REQUIREMENT

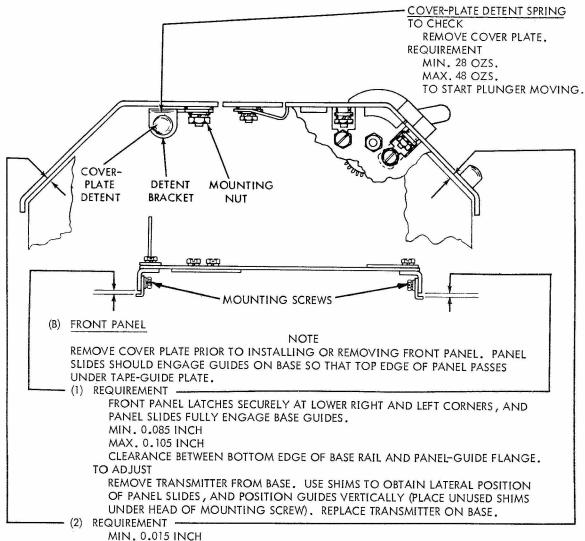
COVER PLATE RESTS ON AT LEAST THREE SIDE-FRAME PROJECTIONS.

(3) REQUIREMENT

FRONT EDGE OF COVER AND TOP PLATES IN LINE.

TO ADJUST

LOOSEN DETENT NUTS ON SIDE FRAMES, AND MOVE THEM TO EXTREME LOWER RIGHT POSITION. TIGHTEN NUTS. LOOSEN FOUR BRACKET MOUNTING NUTS ON COVER PLATE. PLACE COVER INTO POSITION, AND POSITION TO MEET REQUIREMENTS. TIGHTEN NUTS. RECHECK AND REFINE REQUIREMENTS.



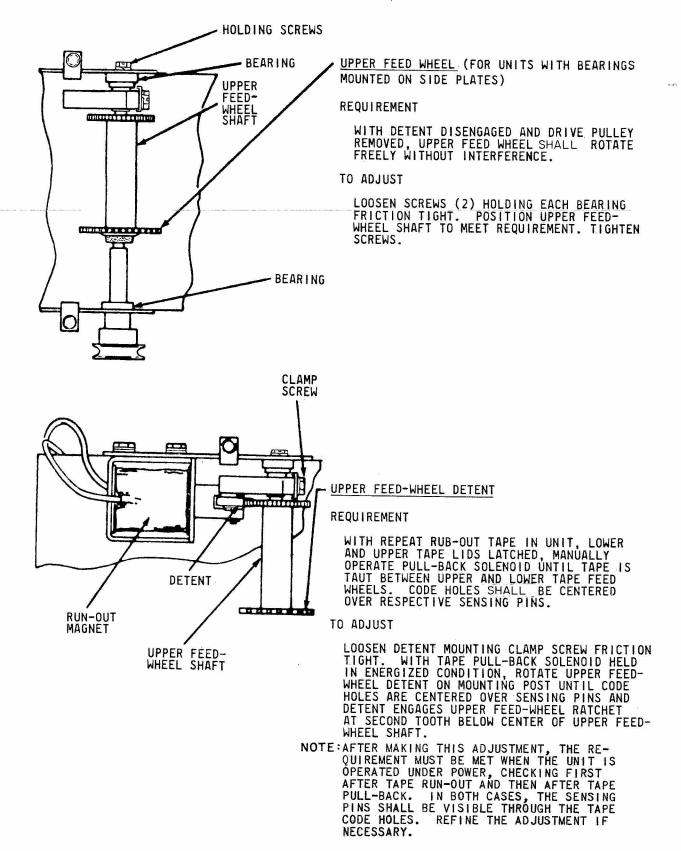
MAX. 0.060 INCH

CLEARANCE BETWEEN PANEL TOP EDGE AND FRONT EDGE OF COVER AND TAPE-GUIDE PLATES. THE UPPER PANEL SIDES SHALL NOT TOUCH THE COVER AND TAPE-GUIDE PLATE EAVES.

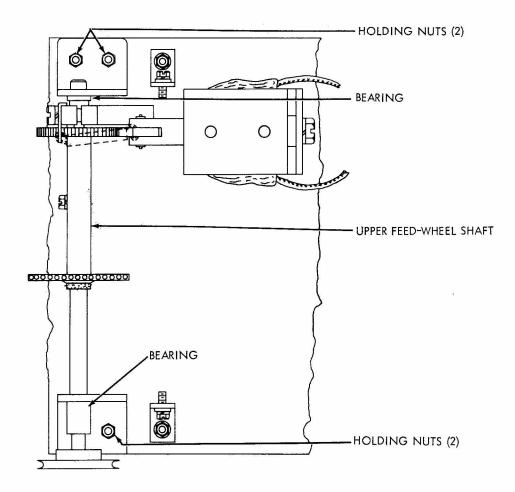
TO ADJUST

WITH FRONT PANEL IN PLACE, LOOSEN PANEL-GUIDE MOUNTING SCREWS AND POSITION THE GUIDE. TO FACILITATE ADJUSTMENT, REMOVE THE FOUR VIBRATION-MOUNT NUTS AND SWING SUBBASE AWAY.

# 2.25 Upper Feed Wheel (Units With Bearings Mounted on Side Plates) and Upper Feed-wheel Detent (Unit With Pull-back Mechanism)



# 2.26 Upper Feed Wheel (Units With Bearings Mounted on Top Plate) (Unit With Pull-back Mechanism)



#### UPPER FEED WHEEL

### REQUIREMENT

WITH DETENT DISENGAGED AND DRIVE PULLEY RE-MOVED, UPPER FEED WHEEL SHALL ROTATE FREELY WITHOUT INTERFERENCE.

#### TO ADJUST

NOTE: PERFORM ADJUSTMENT WITH TOP PLATE, FEED WHEEL AND BEARINGS, AND RUN-OUT SOLENOID MECHANISM REMOVED FROM UNIT. REMOVE BY LOOSENING TWO MOUNTING SCREWS AND LIFTING OFF TOP PLATE.

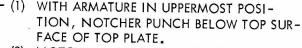
LOOSEN HOLDING NUTS (2) HOLDING EACH BEARING FRICTION TIGHT AND ALIGN BEARINGS SO FEED WHEEL ROTATES FREELY. RECHECK AFTER NUTS ARE TIGHTENED.

FOLLOWING THIS ADJUSTMENT, CHECK UPPER FEED-WHEEL DETENT.

### 2.27 Notcher Armature Travel and Notcher Springs (Unit With Pull-back Mechanism)



# REQUIREMENT (EACH NOTCHER)

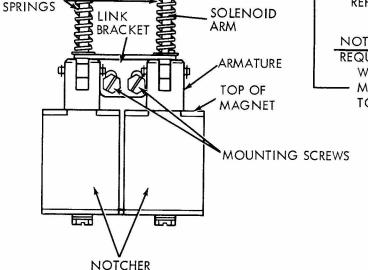


- (2) NOTCHER PUNCH FULLY SEATED IN DIE PLATE BEFORE ARMATURE QUITE REACHES LOWERMOST POSITION.
- (3) OPERATING STROKE OF ARMATURE MIN. 0.090 INCH --- MAX. 0.100 INCH.

#### TO ADJUST (EACH NOTCHER)

- (A) REMOVE PIVOT PIN AND RETAINING CLIP. PLACE ARMATURE IN LOWERMOST POSITION. DRAW PENCIL LINE ON ARMATURE AT TOP OF MAGNET. REPLACE PIVOT PIN. MOVE ARMATURE DOWN UNTIL PUNCH IS FULLY SEATED IN DIE PLATE. PENCIL LINE SHOULD BE 1/32 INCH ABOVE TOP OF MAGNET. IF NOT, REMOVE PIN AND ADJUST BY ROTATING SOLENOID ARM. REPLACE PIVOT PIN AND RETAINING CLIP.
- (B) WITH MOUNTING SCREWS LOOSENED, POSITION LINK BRACKET SO THAT, WHEN ARMATURE IS IN UPPERMOST POSITION, PENCIL LINE IS 1/8 INCH ABOVE TOP OF MAGNET.

NOTE: WITH NOTCHER MAGNETS DE-ENERGIZED, PLACE START-STOP LEVER IN FREE WHEELING POSITION, LOAD UNIT WITH TAPE. PULL TAPE TOWARD REAR OF UNIT. TAPE SHOULD NOT BE SNAGGED ON NOTCHER POINTS. CHECK AND REFINE BOTH NOTCHER PUNCH ADJUSTMENTS.



MAGNETS

DIE PLATE

NOTCHER

DIE PLATE

NOTCHER

TOP PLATE

NOTCHER

PIVOT PIN

RETAINING

CLIP

PUNCH

NOTCHER SPRINGS (2)

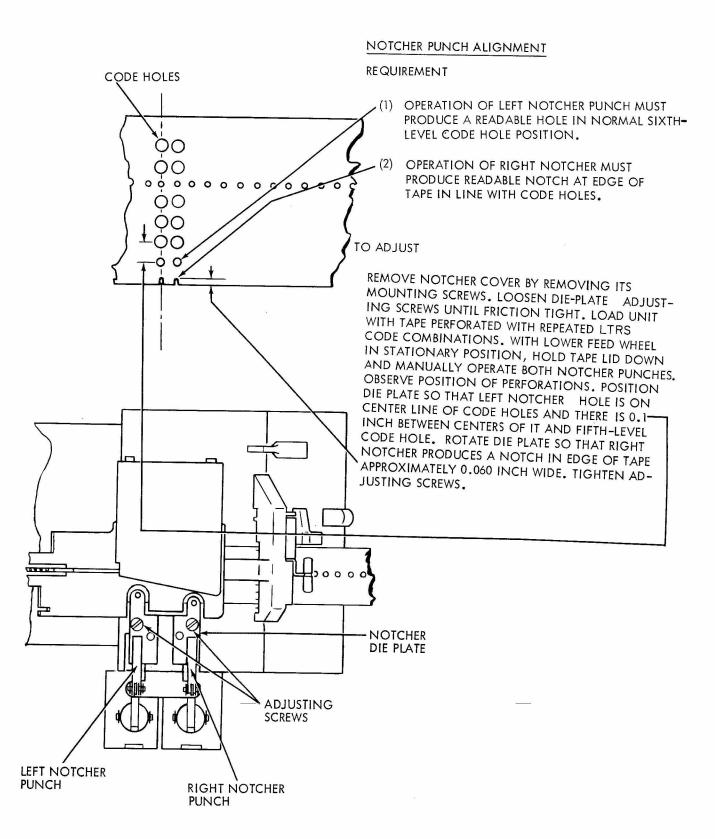
REQUIREMENT (EACH SPRING)

WITH MAGNET DE-ENERGIZED:

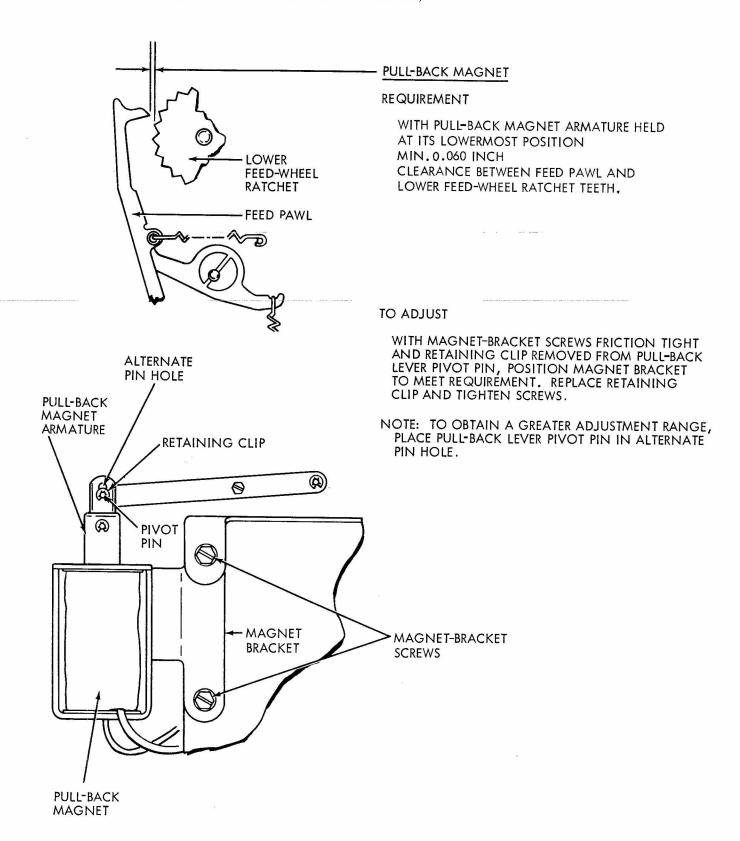
MIN. 1 OZ. --- MAX. 2 OZS.

TO START SOLENOID ARM MOVING.

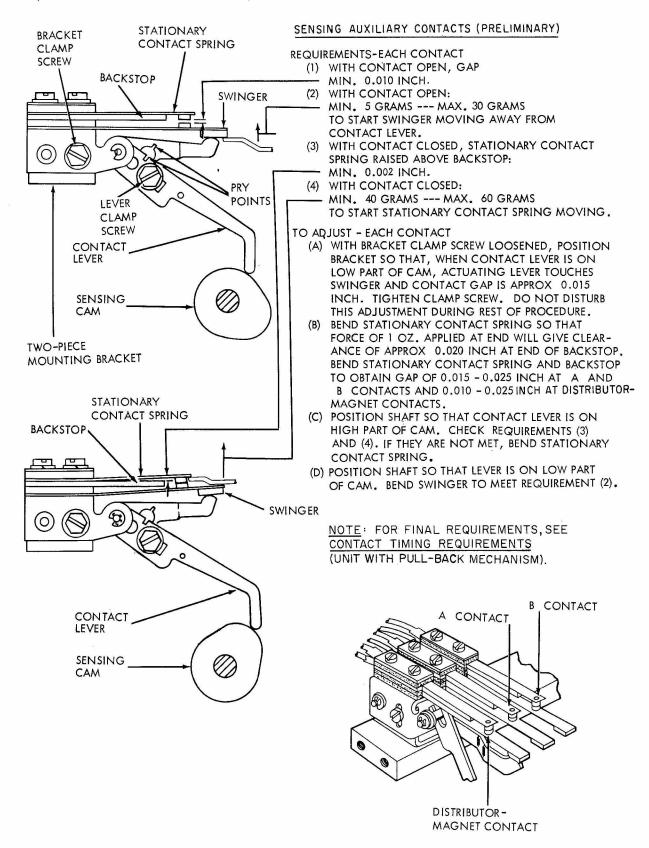
# 2.28 Notcher Punches (Left and Right) (Unit With Pull-back Mechanism)



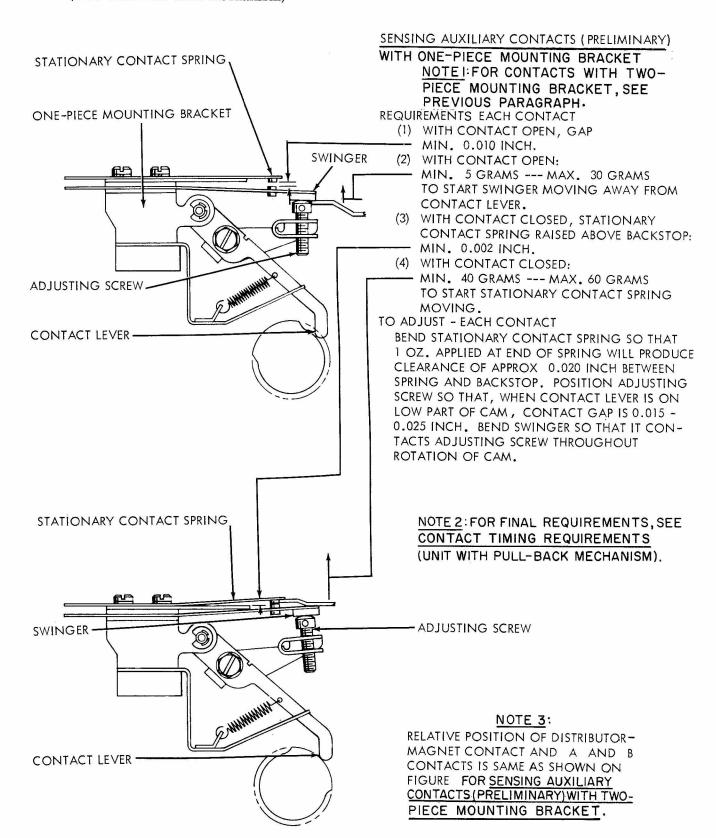
# 2.29 Pull-back Magnet (Unit With Pull-back Mechanism)



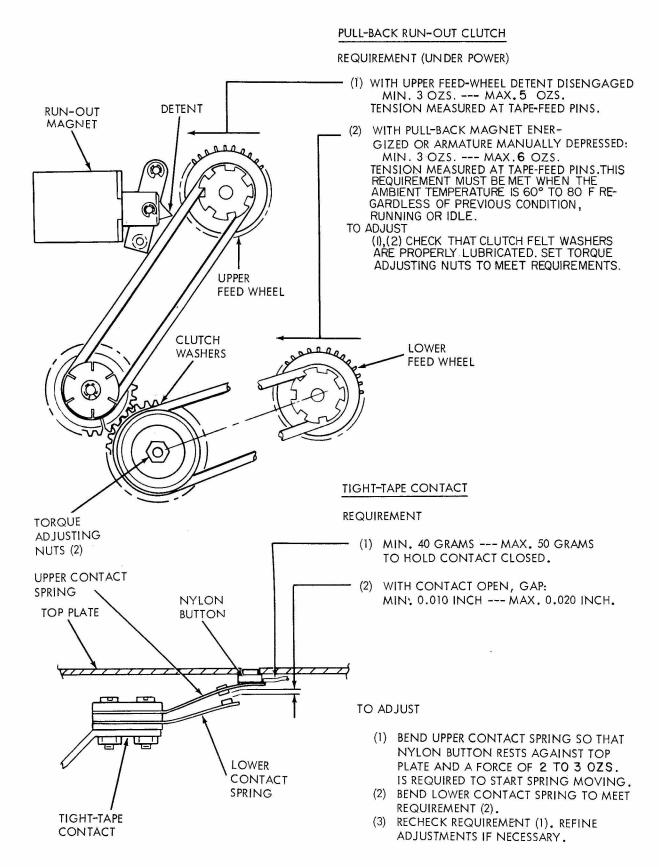
# 2.30 Sensing Auxiliary Contacts (Preliminary) With Two-piece Mounting Bracket (Unit With Pull-back Mechanism)



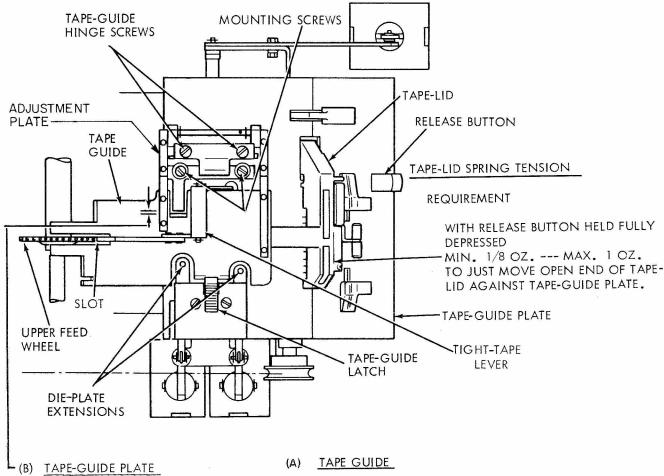
# 2.31 Sensing Auxiliary Contacts (Preliminary) With One-piece Mounting Bracket (Unit With Pull-back Mechanism)



## 2.32 Pull-back Run-out Clutch and Tight-tape Contact (Unit With Pull-back Mechanism)



# 2.33 Adjustment Plate, Tape Guide, Tape-guide Plate and Tape-lid Spring (Unit With Pull-back Mechanism)



#### REQUIREMENT

WITH TAPE IN UNIT AND AGAINST GUIDING EDGE OF DIE PLATE, APPROX 0.010 INCH CLEARANCE BETWEEN TAPE-GUIDE PLATE AND EDGE OF TAPE.

TO ADJUST

POSITION TAPE-GUIDE PLATE WITH MOUNTING SCREWS LOOSENED.

#### (C) ADJUSTMENT PLATE

REQUIREMENT

POSITION ADJUSTMENT PLATE SO THAT IT GUIDES TAPE CORRECTLY.

TO ADJUST

(I)WITH I-INCH TAPE IN THE UNIT, AND LOWER EDGE OF TAPE AGAINST THE GUIDING EDGE OF THE DIE PLATE, SET THE ADJUSTMENT PLATE SO THAT THERE IS APPROX O.OIO INCH CLEARANCE BETWEEN THE EDGE OF THE TAPE AND THE ADJUSTMENT PLATE.

(2) CHECK THAT TAPE CAN BE DRAWN FREE-LY THROUGH THE UNIT, BEING GUIDED BUT NOT BINDING BETWEEN THE DIE PLATE AND THE ADJUSTMENT PLATE.

#### REQUIREMENT

WITH TAPE GUIDE IN LATCHED POSITION, TAPE GUIDE SHALL CLEAR DIE-PLATE EXTENSIONS AND BE CENTERED ON THE UPPER FEED WHEEL.

#### TO ADJUST

WITH TAPE-GUIDE COVER REMOVED, LOOSEN GUIDE HINGE SCREWS FRICTION TIGHT. LATCH TAPE GUIDE IN POSITION. POSITION TAPE GUIDE TO MEET REQUIREMENT. TAPE GUIDE SHOULD ENGAGE LATCH BY APPROXIMATELY 0.020 INCH TO 0.030 INCH. WHEN UNLATCHED, TAPE GUIDE SHOULD NOT INTERFERE WITH DIE PLATE. TIGHTEN HINGE SCREWS. REPLACE TAPE-GUIDE COVER.

# 2.34 Lower Feed-wheel Check Pawl and Tight-tape Lever (Unit With Pull-back Mechanism)

# LOWER FEED-WHEEL CHECK PAWL REQUIREMENT

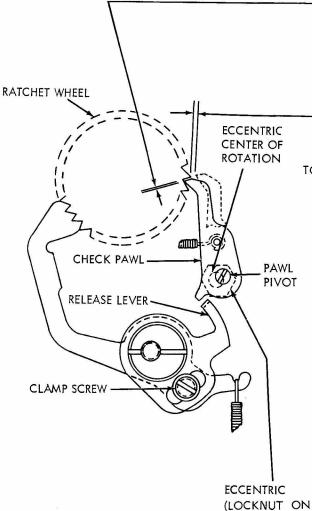
1) AT END OF FEEDING OPERATION, CHECK PAWL DROPPED BEHIND A TOOTH ON RATCHET WHEEL AND

MIN. 0.003 INCH ---- MAX. 0.006 INCH CLEARANCE BETWEEN PAWL AND TOOTH. THIS REQUIREMENT SHALL BE MET WITH THE TOOTH WHICH PROVIDES THE LEAST CLEARANCE.

(2) WITH PULL-BACK MAGNET MANUALLY OPERATED, CHECK PAWL DISENGAGED FROM RATCHET WHEEL AND MIN. 0.020 INCH --- MAX. 0.040 INCH CLEARANCE BETWEEN PAWL AND OUTSIDE DIAMETER OF RATCHET WHEEL.

#### TO ADJUST

- (A) MAKE SURE THAT FEED PAWL IS ADJUSTED PROPERLY.
- (B) REMOVE PULL-BACK DRIVE BELT TO PREVENT BACKWARD MOVEMENT OF FEED WHEEL DURING ADJUSTMENT.
- (C) WITH LOCKNUT LOOSENED, POSITION CHECK-PAWL ECCENTRIC TO MEET REQUIREMENT (1). KEEP CENTER OF PAWL PIVOT TO RIGHT OF ECCENTRIC CENTER OF ROTATION. TIGHTEN LOCKNUT AND RECHECK REQUIREMENT (1).
- (D) LOOSEN CLAMP SCREW. HOLD PULL-BACK MAGNET IN OPERATED POSITION AND POSITION RELEASE LEVER TO MEET REQUIRE MENT (2). TIGHTEN CLAMP SCREW. HOLD PULL-BACK MAGNET OPERATED AND SPIN RATCHET WHEEL TO CHECK THAT IT IS FREE THROUGHOUT ROTATION.



TIGHT-TAPE LEVER

REQUIREMENT

OTHER END)

(1) WITH TIGHT-TAPE LEVER RESTING
AGAINST TAPE GUIDE
MIN. SOME --- MAX. 0.005 INCH
BETWEEN LEVER AND TIGHT-TAPE
CONTACT NYLON BUTTON.

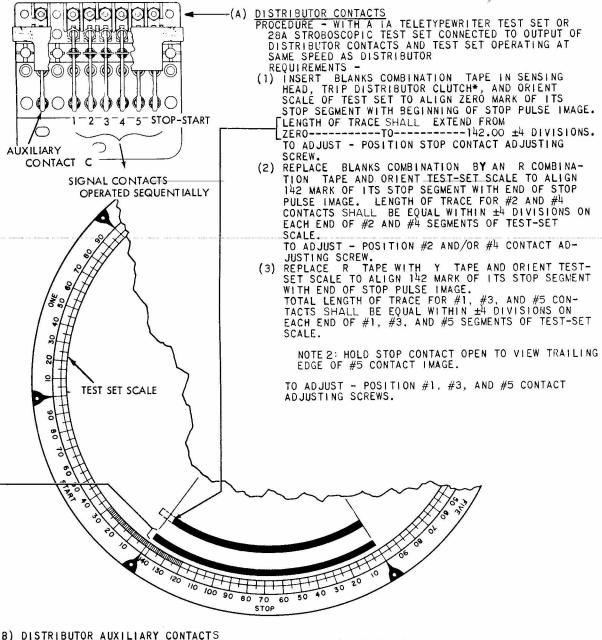
(2) BAKELITE PORTION OF TIGHT-TAPE LEVER SHALL ALWAYS FALL INTO ITS SLOT IN THE UPPER TAPE GUIDE. CHECK WITH GUIDE UP AS WELL AS DOWN.

TO ADJUST
BEND TIGHT-TAPE LEVER.

TIGHT-TAPE LEVER

### 2.35 Contact Timing Requirements (Unit Without Pull-back Mechanism)

#### (1) Distributor Contacts



(B) DISTRIBUTOR AUXILIARY CONTACTS

(I) REQUIREMENT - WITH TEST SET CONNECTED TO
AUXILIARY CONTACT C
FALIGN END OF STOP PULSE IMAGE WITH 142 MARK ON
STOP SEGMENT OF TEST-SET SCALE. CONTACT
SHALL CLOSE AT 32 ±15 DIVISIONS IN START
PULSE SEGMENT OF TEST-SET SCALE AND OPEN AT
29 ±15 DIVISIONS IN STOP PULSE SEGMENT OF
TEST-SET SCALE.
TO ADJUST - POSITION CONTACT ADJUSTING SCREW.

\* NOTE I: - CLUTCH ON CERTAIN UNITS TRIGGERED (ELECTRICALLY) FROM OPPO-SITE SHAFT. (2) REQUIREMENT - WITH TEST SET CONNECTED TO AUXILIARY CONTACT B (IF SO EQUIPPED)

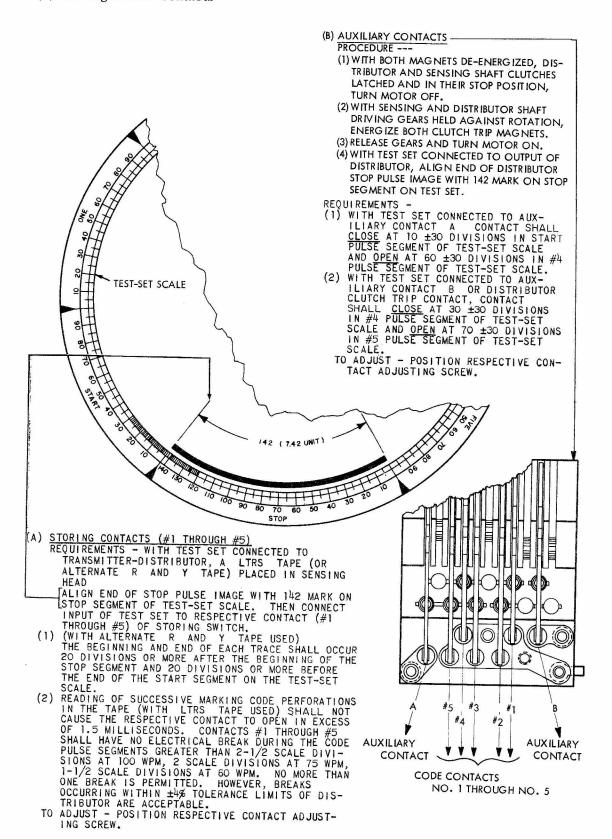
ALIGN END OF STOP PULSE IMAGE WITH 142 MARK ON STOP SEGMENT OF TEST-SET SCALE. CONTACT SHALL CLOSE AT 25 ±15 DIVISIONS IN #1 PULSE SEGMENT OF TEST-SET SCALE AND OPEN AT 75 ±15 DIVISIONS IN #5 PULSE SEGMENT OF TEST-SET SCALE.

TO ADJUST - POSITION CONTACT ADJUST-

ING SCREW.

# 2.35 Contact Timing Requirements (Unit Without Pull-back Mechanism) (Cont)

### (2) Storing Switch Contacts



2.36 Contact Timing Requirements (Unit With Pull-back Mechanism)

#### (a) DISTRIBUTOR CONTACTS

- (1) To Check: Use a 28B stroboscopic test set in accordance with the instructions for strobing distributor contacts as given in the appropriate section.
- (2) Tests: The requirements and adjustments for Distributor Contacts (Unit Without Pull-back Mechanism) of this section apply except that, for the unit with pull-back mechanism, all references to ±4 divisions are changed to ±3 divisions.

### (b) DISTRIBUTOR AUXILIARY CONTACT

- (1) To Check: Use a 28B stroboscopic test set in accordance with the instructions for strobing distributor contacts as given in the appropriate section.
- (2) Tests: The requirements and adjustments for Distributor Auxiliary Contact (Unit Without Pull-back Mechanism) of this section apply except that, for the unit with pull-back mechanism the following requirements are substituted:

Close:  $110 \pm 5$  divisions in STOP segment. Open:  $31 \pm 8$  divisions in STOP segment.

### (c) TRANSMITTER SENSING CODE CONTACTS, ZERO THROUGH EIGHTH LEVEL

- (1) To Check: Use a 28B stroboscopic test set in accordance with the instructions for strobing transmitter sensing code and auxiliary contacts as given in the appropriate section.
- (2) Tests: The requirements and adjustments are the same as those for Storing Contacts (1 Through 5) (Unit Without Pullback Mechanism) of this section. In addition, when testing the transmitter-distributor unit with pull-back mechanism, note the position of the latest transition (eg 85 divisions in the STOP segment) for use in checking the requirements for the transmitter sensing auxiliary contacts, sequential clutch operation.

# (d) TRANSMITTER SENSING AUXILIARY CONTACTS, SIMULTANEOUS CLUTCH OPERATION.

(1) To Check: Use a 28B stroboscopic test set in accordance with instructions for strobing transmitter sensing auxiliary and code contacts as given in the appropriate section.

#### (2) Requirements:

(a) A Contact:

Close: 107 ±18 divisions in STOP

segment.

Open:  $89 \pm 15$  divisions in TWO

segment.

(b) B Contact:

Close:  $2 (\pm 15)$  divisions in THREE

segment.

Open: 4 ( $\pm 25$ , -15) divisions in ONE

segment.

(c) Distributor Magnet Contact

Close: 85 ±10 divisions in START segment.

Remain Closed: 180 to 220 divisions.

(3) To Adjust (Each Contact): With lever clamp screw loosened, position contact lever shown in Sensing Auxiliary Contact (Preliminary), With Two-piece Mounting Bracket (Unit With Pull-back Mechanism) or Sensing Auxiliary Contacts (Preliminary) With One-piece Mounting Bracket (Unit With Pull-back Mechanism). Move lever upward to advance timing and downward to retard timing.

Note: The A contact on the two-piece mounting bracket is not adjustable.

# (e) TRANSMITTER SENSING AUXILIARY CONTACTS, SEQUENTIAL CLUTCH OPERATION.

(1) To Check: Use a 28B stroboscopic test set in accordance with the instructions for strobing transmitter sensing code and auxiliary contacts as given in the appropriate section.

#### (2) Requirements:

- (a) When reading alternate rub-out and Blank characters, the mark-to-space and space-to-mark overlap transitions shall be between 25 and 85 divisions in STOP segment.
- (b) With repeat rub-out tape being read, breaks in marking image shall be less than 3 divisions in transition range and no breaks outside transition range.
- (c) The B contact must open in the FIVE segment. There shall be a minimum of 74 divisions between latest transition of sensing code contacts (see Transmitter Sensing Code Contacts, Zero Through Eighth Level (Unit With Pull-back Mechanism)) and closure of B contact.

### (3) To Adjust:

 (a) Refine preliminary adjustment in Sensing Auxiliary Contacts (Preliminary) With Two-piece Mounting Bracket (Unit With Pull-back Mechanism) or Sensing Auxiliary Contacts (Preliminary) With One-piece Mounting Bracket (Unit With Pull-back Mechanism) and contact-lever adjustment in Transmitter Sensing Auxiliary Contacts, Simultaneous Clutch Operation (Unit With Pull-back Mechanism) for distributor magnet contact to meet the requirements in (b) (1) and (b) (2).

(b) Refine the adjustments in (c) (1) for B contact to meet requirement (b) (3).

## (f) GENERAL STROBING NOTES

- (1) Make sure that there is overtravel in the sensing auxiliary contacts after the strobing adjustments have been made and that the contacts open with a minimum gap of 0.010 inch.
- (2) To obtain overlap transitions, refine the lever slide adjustment shown in Transfer-type Storing Switch Mechanism within its 0.005- to 0.020-inch range, or refine the pushlever adjustment shown in Sensing Mechanism to within its 0.010- to 0.020-inch range. Increasing either of these gaps will increase the overlap.

B. Auxiliary Features (Unit Without Pull-back Mechanism)

Modification Kit to Provide Combination Tape-out and Tape-lid Switch

2.37 Tape-out and Tape-lid Switch Assembly

#### TAPE-OUT AND TAPE-LID SWITCH

#### NOTE I

MAKE THIS ADJUSTMENT BEFORE ASSEMBLING SWITCH TO UNIT.

-(1) REQUIREMENT

MIN. 8 GRAMS

MAX. 15 GRAMS

TO JUST SEPARATE NORMALLY CLOSED CONTACTS (APPLY SCALE TO CENTER OF NYLON PAD).

TO ADJUST

BEND CONTACT SWINGER WITH ATP 110445 SPRING BENDER.

(2) REQUIREMENT

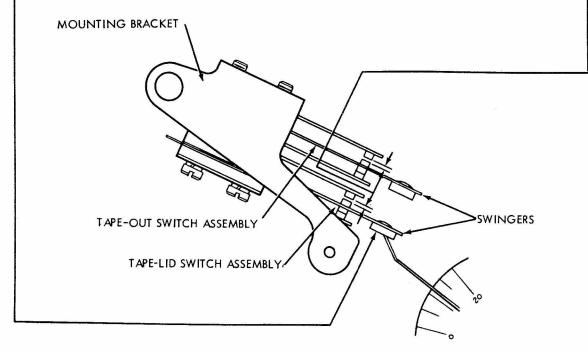
MIN. 0.008 INCH

MAX. 0.015 INCH

GAP BETWEEN NORMALLY OPEN CONTACTS.

TO ADJUST

BEND UPPER CONTACT LEAF WITH A TP 110445 SPRING BENDER.



#### NOTE 2

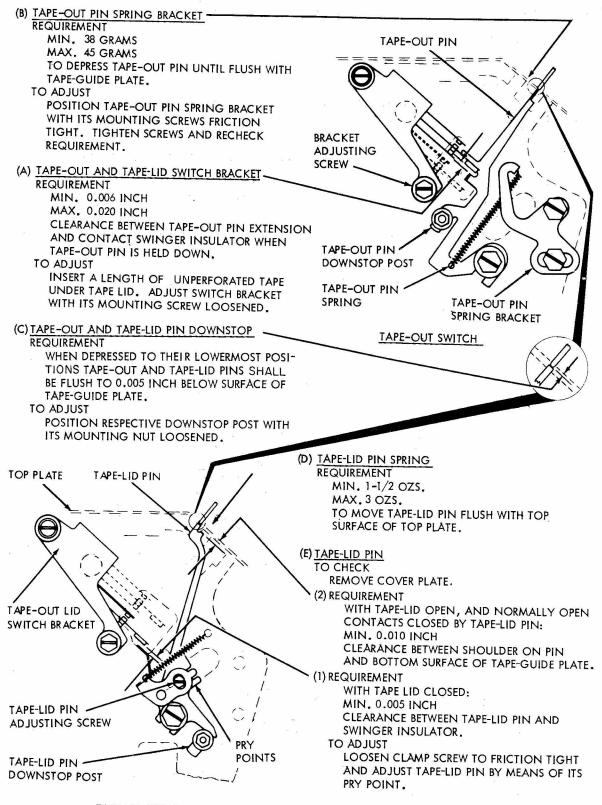
#### TO REMOVE TAPE-OUT AND TAPE-LID SWITCH ASSEMBLY

- (1) REMOVE COVER AND TOP PLATES.
- (2) REMOVE SPRING ATTACHED TO BRACKET ON GUIDE POST.
- (3) LOOSEN SCREW SECURING GUIDE POST TO REAR PLATE.
- (4) REMOVE SCREW AND LOCKWASHER FROM FRONT END OF GUIDE POST.
- (5) REMOVE ADJUSTING SCREW FROM LOWER END OF SWITCH BRACKET.
- (6) GUIDE POST AND SWITCH ASSEMBLY CAN NOW BE REMOVED. TAKE CARE NOT TO DISTORT SWITCH LEAF SPRINGS.

#### TO REPLACE SWITCH ASSEMBLY

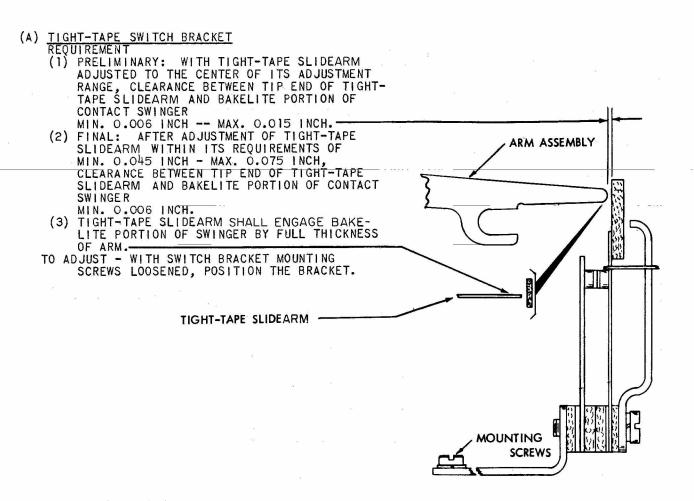
REVERSE DISASSEMBLY PROCEDURE.

# 2.38 Tape-out and Tape-lid Pin Mechanism



TAPE-LID SWITCH

2.39 Tight-tape Switch Assembly (Units Not Equipped With START-STOP Lever)



- (B) TIGHT-TAPE LEVER SWITCH SEE STANDARD ADJUSTMENT.
- (C) TIGHT-TAPE SLIDEARM SEE STANDARD ADJUSTMENT.
- (D) TIGHT-TAPE BAIL YIELD SPRING SEE STANDARD ADJUSTMENT.

NOTE: STANDARD ADJUSTMENT IS FOUND IN PARAGRAPH, TIGHT-TAPE START-STOP MECHANISM (FOR UNITS EQUIPPED WITH TIGHT-TAPE START-STOP LEVER).

2.40 Modification Kit to Permit Use of 11/16-inch and 7/8-inch Tape Interchangeably Tape Guide

## RIGHT AND LEFT GUIDE ADJUSTMENT

REQUIREMENT

WITH THE TP156743 GUIDE INSERTED BETWEEN THE RIGHT TAPE GUIDE AND THE LEFT TAPE GUIDE. THE GAUGE MAY TOUCH EITHER GUIDE BUT SHALL NOT BIND. CLEARANCE SHALL NOT EXCEED 0.003 INCH. TO ADJUST

POSITION EACH TAPE GUIDE WITH THE TAPE-GUIDE MOUNTING NUTS FRICTION TIGHT.

