28E and 28H TRANSMITTER-DISTRIBUTOR UNIT REQUIREMENTS AND ADJUSTMENTS

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	Modification Kit to Permit Use of 11/16-inch and 7/8-inch 5-level Tape Interchangeably	29	have been approved for use with these transmitter-distributor units and to bring all adjustment information up to date.	s -
	Tape Guide		1.03 In this section, left or right, front or real and top or bottom apply to the apparatu	
	Right and left guide adjustment.	29	in its normal operating position as viewed from the front.	
	Modification Kit to Convert 28H to 28H-1 Transmitter-Distributor	30	1.04 When the requirement calls for the clute to be disengaged, the clutch-shoe leve	
	Tape-lid Sensing Lever		must be fully latched between its triplever ar latchlever so that the clutch shoes release the	nd
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	(preliminary)	. 25	sion clutch shoes from the clutch drum.	

- 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 disconnected from its source of power as a safety precaution.
- 1.06 Requirements and adjustments for the timing mechanism required for the transmitter-distributor unit to operate in conjunction with horizontal or vertical tabulation of the typing unit are given in the section covering 28 typing unit requirements and adjustments.

2. REQUIREMENTS AND ADJUSTMENTS

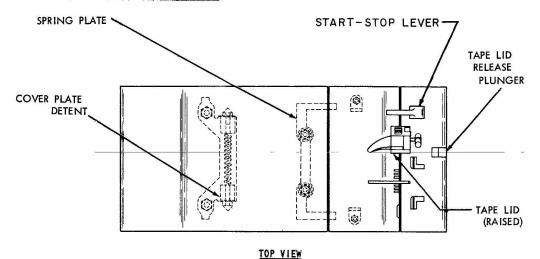
2.01 The figures in this section show the adjusting tolerances, positions of moving parts, and spring tensions. The illustrations are arranged so that the adjustments are in the sequence that would be followed if a complete readjustment of the apparatus were being made. Where an illustration shows interrelated 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.

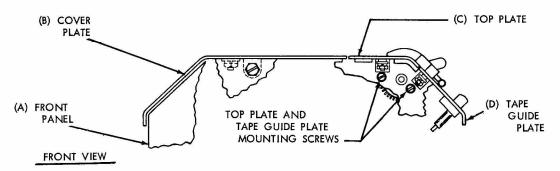
A. Transmitter-Distributor Unit

2.02 Cover Assemblies

INSTRUCTIONS FOR

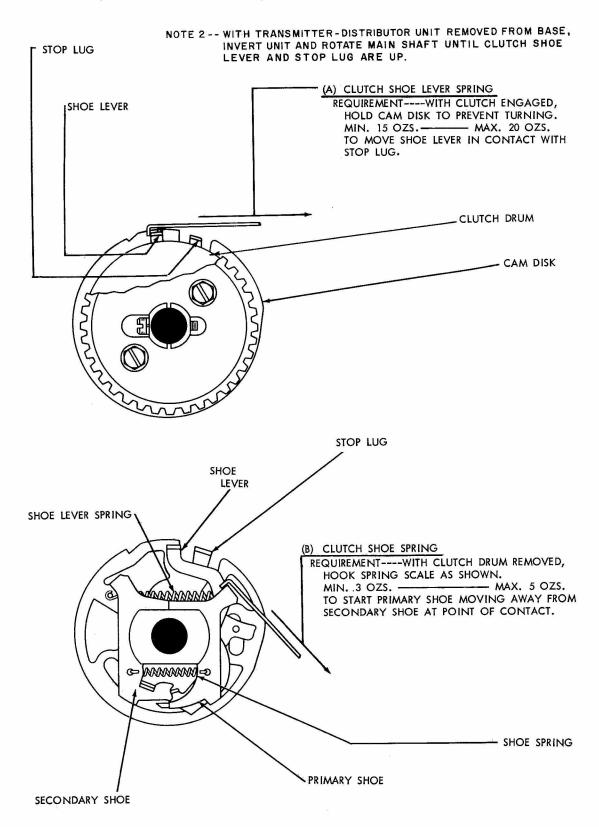
- (A) REMOVING FRONT PANEL----PULL OUTWARD ON LOWER RIGHT AND LEFT REAR CORNER OF FRONT PANEL AND SLIDE PANEL TOWARD THE FRONT. REPLACE IN REVERSE ORDER.
- (B) REMOVING COVER PLATE ----LIFT LEFT END OF COVER PLATE TO DISENGAGE DETENTS, THEN SLIDE PLATE TOWARD THE LEFT TO DISENGAGE SPRING PLATE. REPLACE IN REVERSE ORDER.
- (C) REMOVING TOP PLATE----WITH FRONT AND REAR MOUNTING SCREWS LOOSENED (DO NOT DISTURB MOUNTING NUTS) AND TAPE LID RAISED, LIFT PLATE UPWARD. REFER TO TAPE-GUIDE PLATE REQUIREMENT WHEN REPLACING PLATE.
- (D) REMOVING TAPE GUIDE PLATE----WITH FRONT AND REAR MOUNTING SCREWS LOOSENED (DO NOT DISTURB MOUNTING NUTS) AND TAPE LID RAISED, LIFT PLATE UPWARD. REFER TO TAPE-GUIDE PLATE MOUNTING REQUIREMENT WHEN REPLACING THE PLATE.



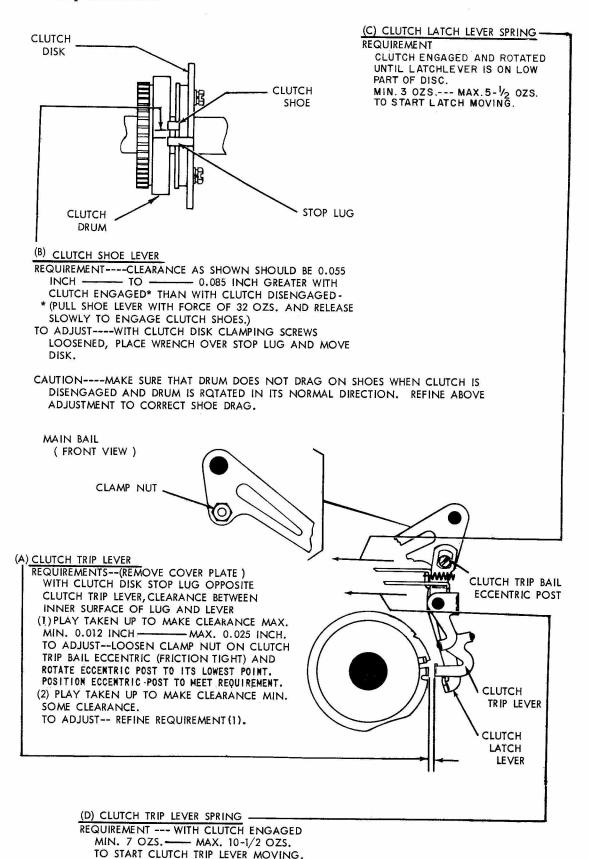


2.03 Clutch Mechanism

NOTE 1----REQUIREMENTS (A) & (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.



2.04 Clutch Trip Mechanism



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2.05 Tape Guide Plate

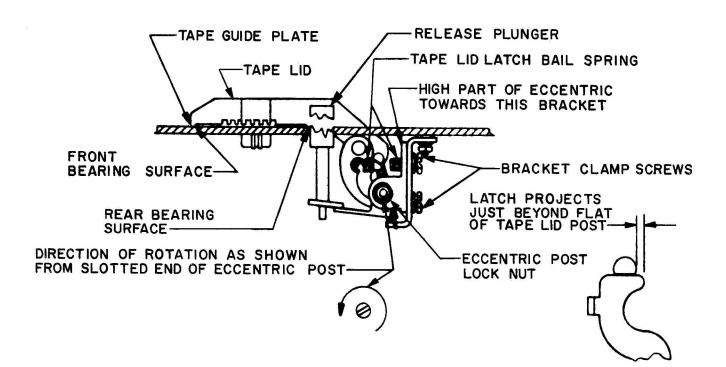
(A) TAPE LID (FOR TAPE LID ASSEMBLY WITHOUT TAPE-LID SPRING) REQUIREMENTS---(REMOVE TOP & TAPE GUIDE PLATES, LUBRICATE PRIOR TO ADJUSTMENT.) (1) PRELIMINARY: WITH TAPE LID HELD AGAINST NOTCH IN TAPE GUIDE PLATE A FEED WHEEL GROOVE IN TAPE LID SHOULD ALIGN WITH SLOT IN PLATE. HOLE IN TAPE LID FOR TAPE-OUT PIN SHOULD ALIGN WITH HOLE IN PLATE. (GAUGE BY FYE) C CLEARANCE BETWEEN PIVOT SHOULDER AND TAPE LID SOME ---— TO ---INCH MAX. TO ADJUST --- WITH TAPE LID BRACKET MOUNTING NUTS (2) FRICTION TIGHT (INSERT TIP OF TP156743 GAUGE THROUGH SLOT AND INTO GROOVE OF LID), POSITION TAPE LID BRACKET - RETIGHTEN NUTS. (2) TAPE LID FRONT BEARING SURFACE (A) SHOULD TOUCH TAPE GUIDE PLATE. CLEARANCE (B) MEASURED AT FIN OF TAPE LID WHICH IS IN LINE WITH REAR TAPE GUIDE (SEE NOTE 2) MIN. 0.010 INCH -- MAX. 0.018 INCH. NOTE 1 -- 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 BEARING BRACKET. RECHECK REQUIREMENT (1). RELEASE PLUNGER SHOULD HAVE SOME END PLAY WHEN LID IS LATCHED AGAINST TAPE GUIDE PLATE. TO ADJUST -- WITH ECCENTRIC MOUNTING POST LOCK NUT FRICTION TIGHT AND TAPE 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. RE-CHECK BY DEPRESSING PLUNGER --- WITH LID HELD DOWN, TIP OF LATCH SHOULD CLEAR POST AS PLUNGER IS OPERATED. TAPE LID RELEASE PLUNGER TAPE LID BRACKET NOTE-2: 0.010" TQ 0.018" min MOUNTING NUTS 2ND FIN FROM REAR NOTCH LATCH BAIL FEED WHEEL **ECCENTRIC** SLOT WEAR PLATE GAUGE POST 0 0 (6) \odot TAPE LID LATCH BAIL TAPE LID BEARING BRACKET MOUNTING SCREWS TAPE GUIDE MOUNTING NUTS (B) TAPE GUIDE REQUIREMENTS ---- WITH TAPE GAUGE POSITIONED AS SHOWN 1. CLEARANCE BETWEEN RIGHT AND LEFT TAPE GUIDE AND TP156743 GAUGE GAUGE - TO -SOME -2. EDGE OF WEAR PLATE SHOULD BE FLUSH WITH EDGE OF TAPE GUIDE PLATE. TO ADJUST----WITH EACH TAPE GUIDE MOUNTING NUT FRIC-'n TION TIGHT, MOVE WEAR PLATE UPWARD UNTIL IT OVER-HANGS EDGE OF TAPE GUIDE PLATE. PLACE GAUGE IN POSITION AND MOVE GAUGE AND WEAR PLATE DOWN-0 WARD UNTIL BOTH STUDS ENGAGE EDGE OF TAPE GUIDE PLATE TO ALIGN COMMON EDGES. HOLD GAUGE AND WEAR PLATE AND POSITION EACH GUIDE. (GAUGE MAY TOUCH BUT NOT BIND.) THE TAPE SHOULD NOT

RIDE ON THE SIDE OF EITHER TAPE GUIDE.

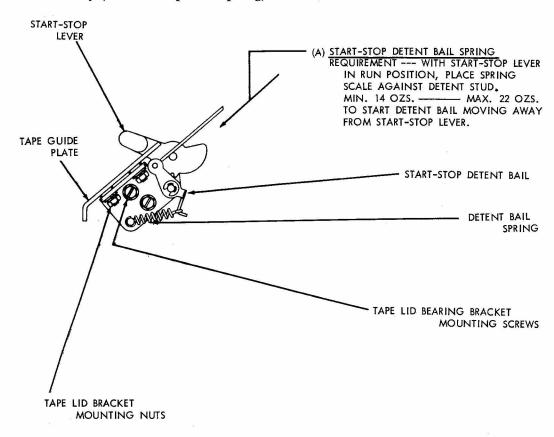
TAPE

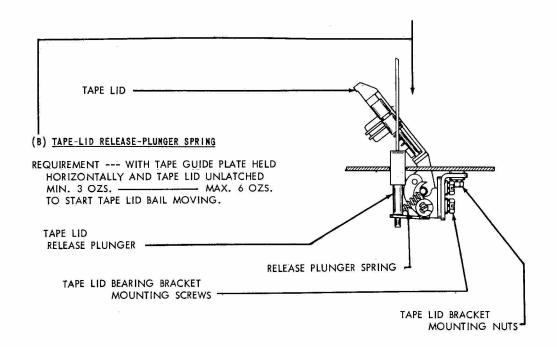
GUIDE

- (A) TAPE LID (FOR TAPE LID ASSEMBLY WITH TAPE-LID SPRING)
 FOR REQUIREMENTS (1) AND (2), SEE PREVIOUS PARAGRAPH.
- (3) REQUIREMENT---RELEASE PLUNGER SHOULD HAVE SOME ENDPLAY WHEN LID IS LATCHED AGAINST TAPE GUIDE PLATE. ECCENTRIC HIGH PART SHOULD BE TOWARD BRACKET.
 - TO ADJUST---WITH ECCENTRIC MOUNTING-POST LOCKNUT FRICTION TIGHT AND TAPE LID RAISED, ROTATE HIGH PART OF ECCENTRIC TOWARD TAPE-LID BEARING BRACKET. CLOSE TAPE LID AND ROTATE ECCENTRIC IN COUNTER-CLOCKWISE DIRECTION AS VIEWED FROM SLOTTED END OF ECCENTRIC UNTIL THE FLAT OF THE TAPE-LID POST IS FULLY ENGAGED BY THE FLAT OF THE LATCH BAIL. ROTATE ECCENTRIC IN CLOCKWISE DIRECTION TO TAKE UP PLAY IN PARTS SO AS TO FIRMLY SEAT TAPE LID AGAINST TAPE GUIDE PLATE. TIGHTEN NUT. RECHECK BY DEPRESSING PLUNGER WITH LID HELD DOWN, TIP OF LATCH SHOULD CLEAR POST AS PLUNGER IS OPERATED. WITH THE TAPE LID LATCHED, ROUNDED TIP OF LATCH SHOULD PROJECT JUST BEYOND FLAT OF TAPE-LID POST AND RELEASE PLUNGER SHOULD HAVE SOME ENDPLAY. IF NECESSARY, REFINE THE ADJUSTMENT TO MEET THESE REQUIREMENTS.



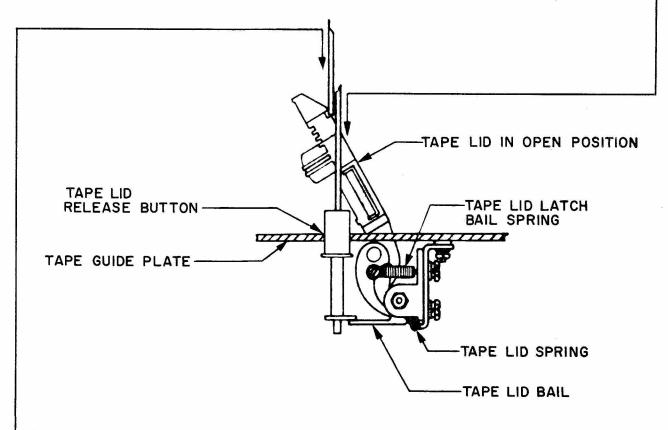
2.07 Tape-lid Assembly (Without Tape-lid Spring)





- 2.08 Tape-lid Assembly (With Tape-lid Spring)
- (A) FOR REQUIREMENT (A) START-STOP DETENT-BAIL SPRING, SEE PREVIOUS PARAGRAPH.
 - (B) TAPE-LID RELEASE-PLUNGER SPRING-

REQUIREMENT---WITH TAPE GUIDE PLATE POSITIONED IN A HORIZONTAL PLANE AND TAPE LID IN ITS OPEN POSITION MIN. 28 OZS.-----MAX. 48 OZS. TO START TAPE-LID BAIL MOVING.

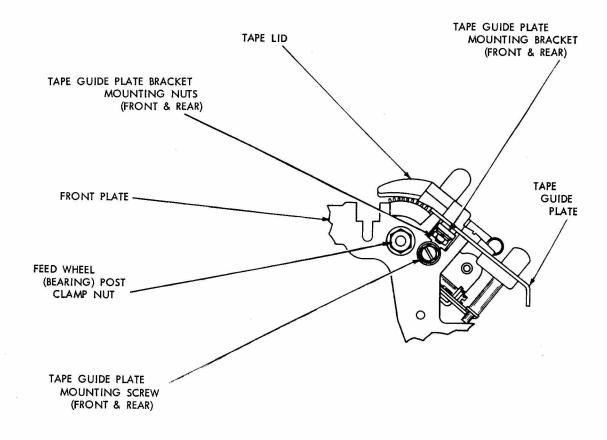


-(C) TAPE-LID SPRING

REQUIREMENT---TAPE GUIDE PLATE POSITIONED IN A HORIZONTAL PLANE AND TAPE LID IN ITS OPEN POSITION. WITH RELEASE PLUNGER HELD FULLY DEPRESSED, APPLY SPRING SCALE AT TOP OF TAPE LID TO THE IMMEDIATE LEFT OF THE TAPE-OUT PIN HOLE AND PUSH VERTICALLY DOWNWARD.

MIN. 3 OZS.-----MAX. 4-1/2 OZS. TO MOVE OPEN END OF TAPE LID AGAINST TAPE GUIDE PLATE.

2.09 Tape Guide Plate Mounting



INSTRUCTIONS FOR

REPLACING AND POSITIONING TAPE GUIDE PLATE

REQUIREMENTS----

- (1) SHOULDER OF FEED WHEEL POST SHOULD NOT INTERFERE WITH TOP PLATE OR TAPE GUIDE PLATE MOUNTING BRACKETS.
 - TO ADJUST---- SEE NOTE 1. WITH (FEED WHEEL) BEARING POST CLAMP NUT FRICTION TIGHT, POSITION THE POST.
- (2) TAPE GUIDE PLATE SHOULD REST FIRMLY AGAINST AT LEAST THREE PROJECTIONS OF FRONT AND REAR PLATE.
 - TO ADJUST---- SEE NOTE 1. WITH CLAMP NUT THAT SECURES TAPE GUIDE PLATE MOUNTING BRACKET (FRONT & REAR) 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 GUIDE PLATE INTO POSITION WHILE GUIDING MOUNTING SCREWS INTO NOTCH OF FRONT AND REAR PLATE. ENGAGE TIP OF TAPE OUT PIN WITH HOLE IN TAPE GUIDE PLATE.
- (3) OUTER EDGE OF FRONT AND REAR MOUNTING BRACKET SHOULD BE LOCATED FLUSH WITH SHOULDER OF MOUNTING STUD SO THAT EDGE OF TAPE GUIDE PLATE PROJECTS OVER FRONT AND REAR PLATE BY AN EQUAL AMOUNT. (GAUGE BY EYE.) SEE COVER PLATE REQUIREMENT. TO ADJUST----MOVE TAPE PLATE TOWARD THE FRONT OR REAR. TIGHTEN NUTS ONLY AFTER TOP PLATE IS ADJUSTED.

NOTE I---POSITION TAPE-OUT SENSING PIN STOP ARM (SEE TAPE-OUT SENSING PIN REQUIREMENT.)
IN ITS LOWEST POSITION AND HOLD START-STOP BAIL EXTENSION FROM RATCHET WHEEL.

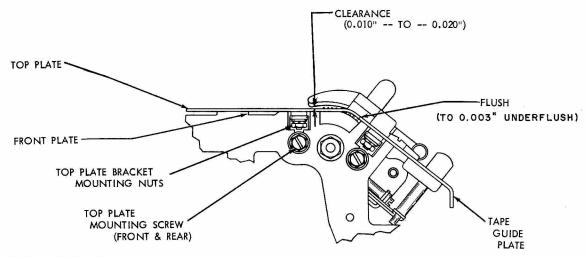
2.10 Top Plate and Cover Plate Mounting

INSTRUCTIONS FOR

REPLACING AND POSITIONING TOP PLATE----LOOSEN NUTS (FRICTION TIGHT) THAT SECURE MOUNT-ING BRACKETS TO PLATE. PRESS TOP PLATE INTO POSITION WHILE GUIDING TOP PLATE MOUNT-ING SCREWS INTO NOTCH OF FRONT AND REAR PLATE. POSITION EACH SENSING PIN IN ITS SLOT. MAKE SURE THAT TOP PLATE SEATS FIRMLY AGAINST PROJECTIONS OF FRONT AND REAR PLATE (3 PROJECTIONS SHOULD ENGAGE) AND TIGHT TAPE ARM EXTENSION IS UNDER TOP PLATE. REQUIREMENTS---

- 1. MATING EDGE OF TOP PLATE SHOULD BE FLUSH TO 0.003 INCH UNDER FLUSH WITH EDGE OF TAPE GUIDE PLATE (WITHIN AREA OF TAPE LID) WHEN PLATE ENGAGES AT LEAST 3 PROJECTIONS
- TO ADJUST ---- POSITION TOP PLATE, TIGHTEN MOUNTING SCREWS AND THEN TIGHTEN NUTS THAT SECURE TAPE GUIDE PLATE MOUNTING BRACKETS.
- 2. FEEDWHEEL SLOT SHOULD ALIGN WITH SLOT IN TAPE GUIDE PLATE SO THAT FEED WHEEL RO-TATES FREELY WITH DETENTS AND FEED PAWL DISENGAGED (FREEWHEELING).
- TO ADJUST ---- POSITION TOP PLATE TOWARD FRONT OR REAR TO ALIGN SLOT.
- THE CLEARANCE BETWEEN THE TAPE-LID EXTENSION WHICH COVERS THE FEED-WHEEL SLOT AND THE TOP PLATE SHALL BE 0.010-T0-0.020 INCH AT THE CURVED PORTION AND 0.010-T0-0.025 INCH AT THE FLAT PORTION (PLAY TAKEN UP TOWARD TAPE-GUIDE PLATE).

 ADJUST --- IF NECESSARY, LOOSEN TAPE-LID BEARING BRACKET MOUNTING SCREWS AND POSITION
- TAPE LID. RETIGHTEN SCREWS AND RECHECK REQUIREMENTS.

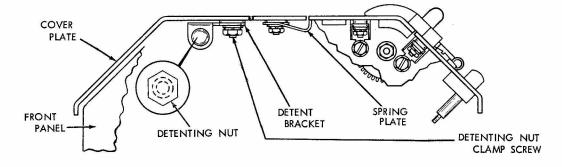


INSTRUCTIONS FOR

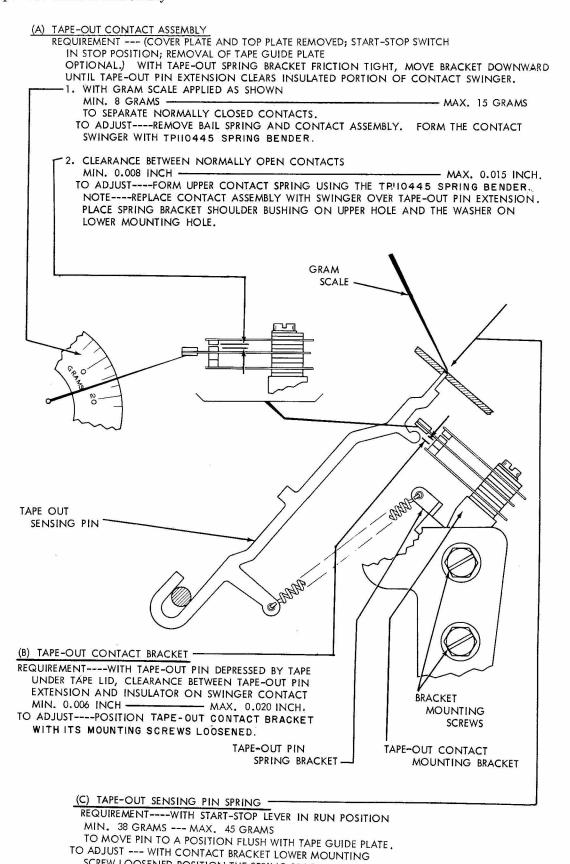
REPLACING AND POSITIONING COVER PLATE

REQUIREMENT----

- 1. RIGHT EDGE OF COVER PLATE SHOULD BE HELD FLUSH AGAINST LEFT EDGE OF TOP PLATE BY THE COVER PLATE DETENTS.
- 2. COVER PLATE SHOULD REST AGAINST AT LEAST THREE OF THE FOUR PROJECTIONS (FRONT & REAR PLATE).
- 3. FRONT EDGE OF COVER PLATE AND TOP PLATE SHOULD ALIGN.
- TO ADJUST----WITH DETENTING NUT CLAMP SCREW (FRONT & REAR PLATE) FRICTION TIGHT, MOVE CLAMP SCREWS TO THEIR EXTREME LOWER RIGHT POSITION THEN TIGHTEN SCREWS. LOOSEN DETENT BRACKET AND SPRING PLATE MOUNTING NUTS. PLACE COVER ON UNIT AND POSI-TION HORIZONTALLY TO MEET THE REQUIREMENTS, RETIGHTEN MOUNTING NUTS,

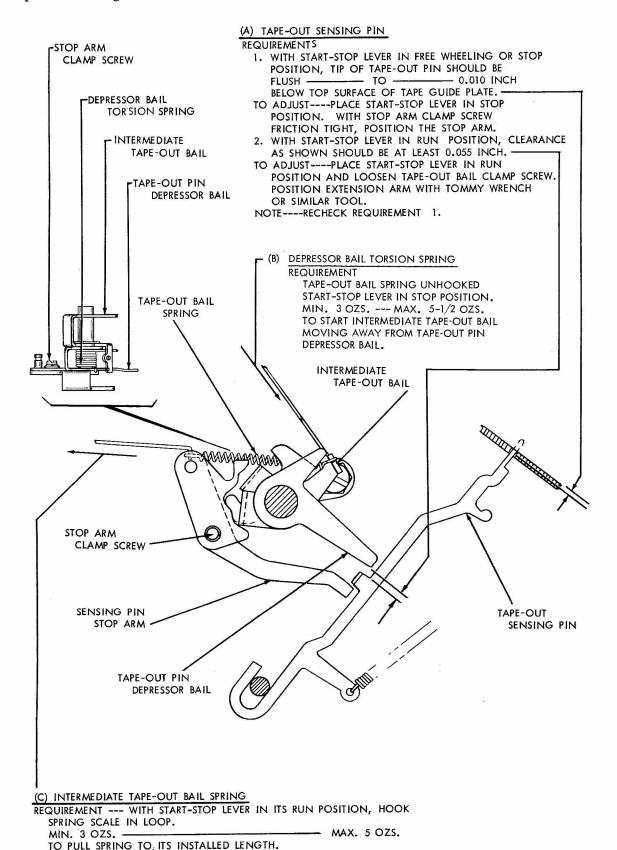


2.11 Tape-out Contact Assembly



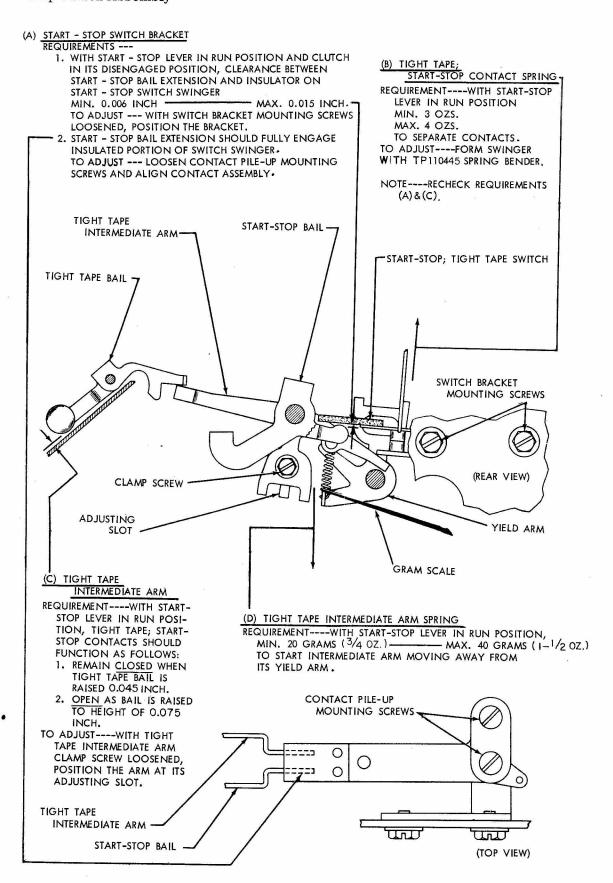
SCREW LOOSENED POSITION THE SPRING BRACKET.

2.12 Tape-out Sensing Pin

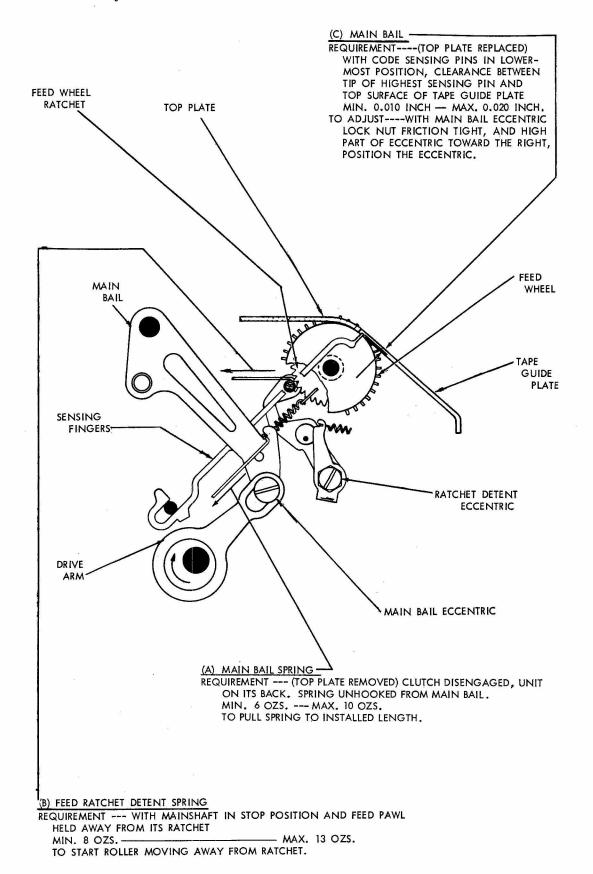


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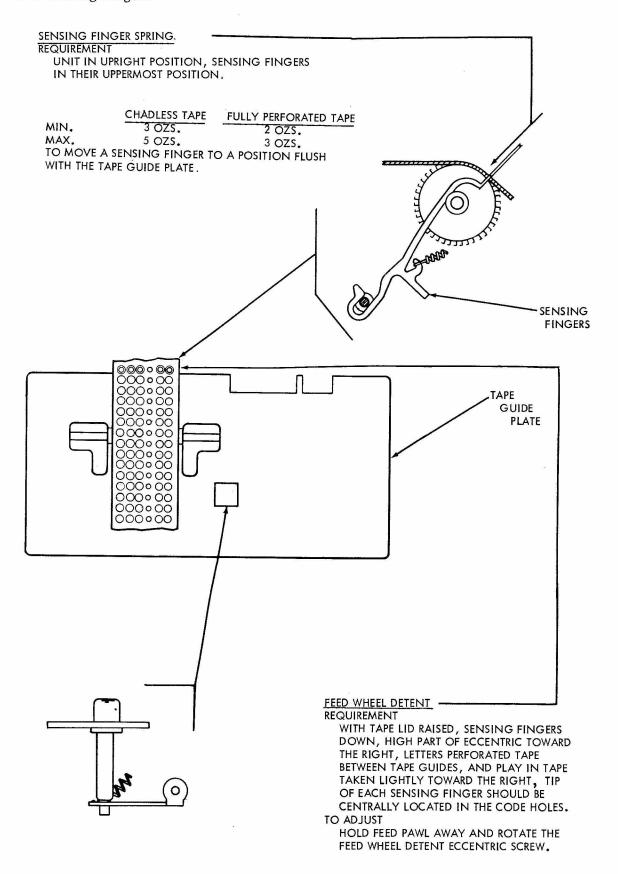
2.13 Start-Stop Switch Assembly



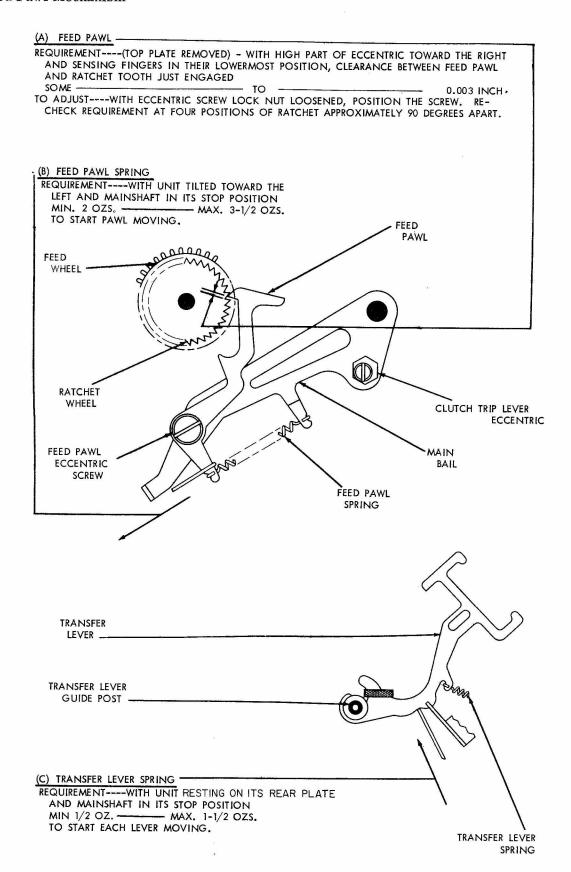
2.14 Main Bail Assembly



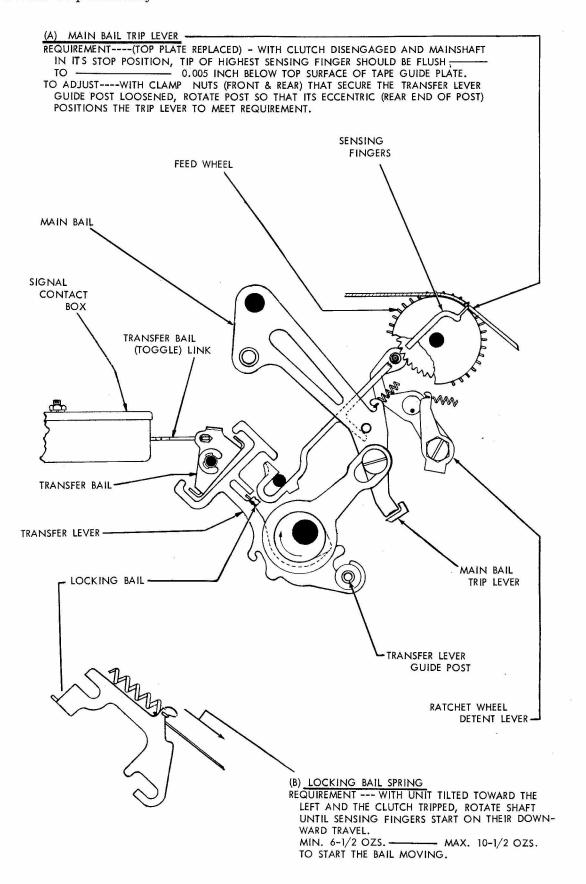
2.15 Code-sensing Fingers



2.16 Feed Pawl Mechanism



2.17 Main Bail Trip Assembly



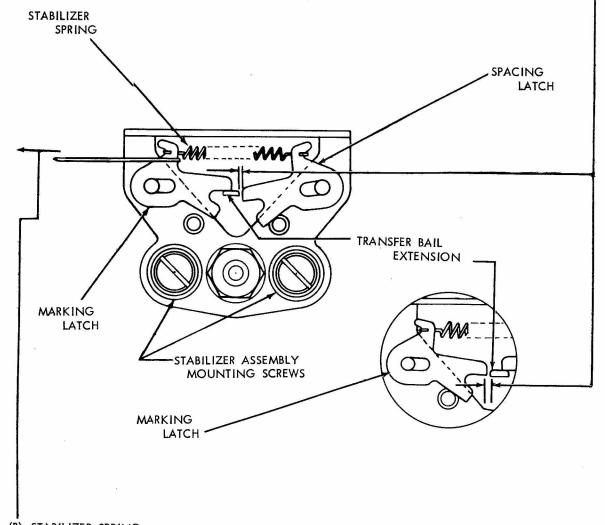
2.18 Transfer Bail Stabilizer

(A) TRANSFER BAIL STABILIZER -

REQUIREMENT --- (1) WITH A LTRS COMBINATION SELECTED, ROTATE MAINSHAFT UNTIL #3 TRANSFER LEVER IS ON HIGH PART OF ITS CAM. CHECK CLEARANCE BETWEEN SIDE OF TRANSFER BAIL EXTENSION AND ITS LATCH. (2) REPEAT ABOVE PROCEDURE WITH A BLANKS COMBINATION SELECTED AND CHECK THE CLEARANCE ON OTHER LATCH. CLEARANCE IN MARKING AND SPACING POSITION SHOULD BE EQUAL WITHIN 0.002 INCH.

TO ADJUST --- WITH STABILIZER ASSEMBLY MOUNTING SCREWS FRICTION TIGHT, POSITION THE ASSEMBLY.

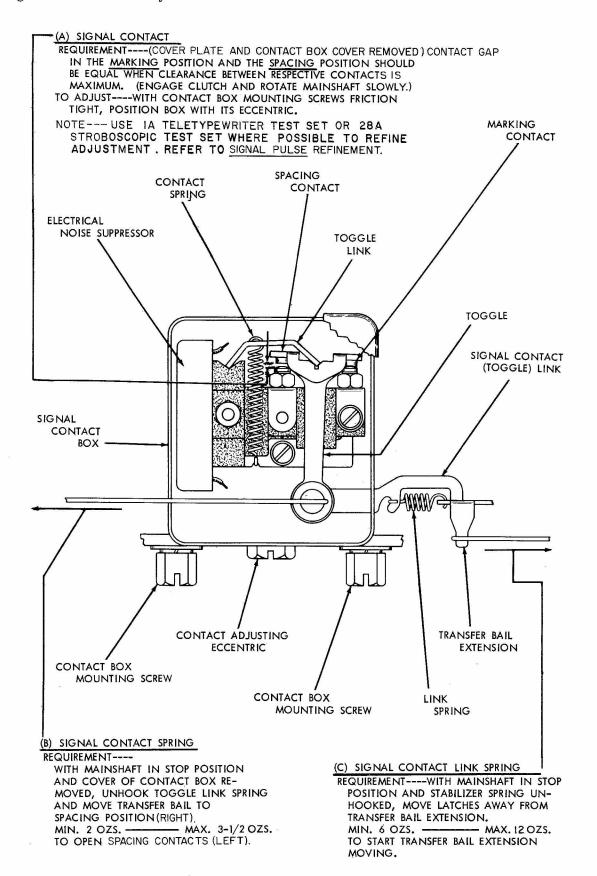
NOTE --- LATCHES SHOULD DROP IN PLACE AS OTHER TRANSFER LEVERS CAM THE TRANSFER BAIL.



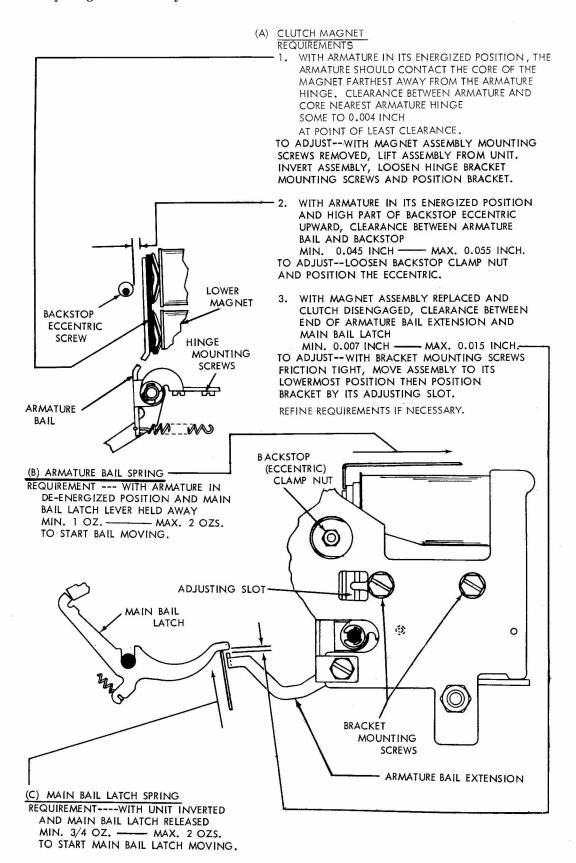
(B) STABILIZER SPRING

REQUIREMENT----WITH UNIT UPRIGHT AND MAINSHAFT IN STOP POSITION MIN. 2-1/2 OZS. ——— MAX. 5 OZS. TO START STABILIZER LATCH MOVING.

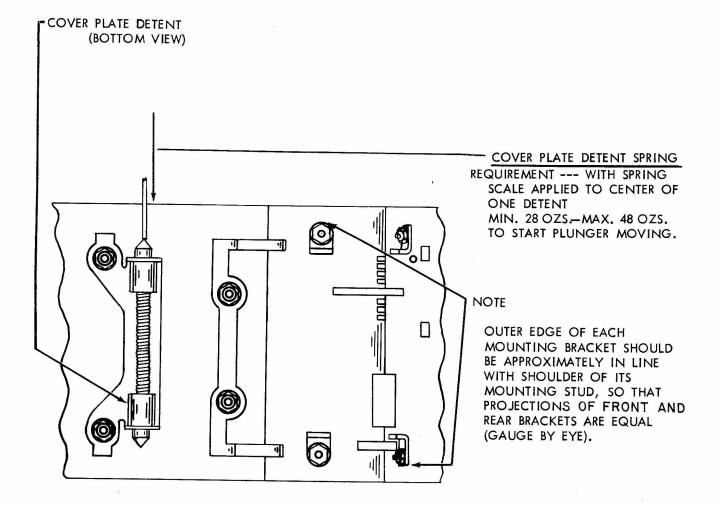
2.19 Signal Contact Assembly



2.20 Clutch Trip Magnet Assembly



2.21 Cover Plate



SIGNAL PULSE (FINAL ADJUSTMENT WITH IA TELETYPEWRITER TEST SET OR 28A STROBOSCOPIC TEST SET)

PROCEDURE --- PLUG TEST SET INTO SIGNAL
LINE TO VIEW PULSE IMAGE GENERATED BY THE MARKING AND SPACING CONTACTS. SYNCHRONIZE SIGNAL GENERATOR WITH TEST SET SO THAT END OF STOP PULSE IMAGE ALIGNS WITH THE 142 MARK ON TEST SET SCALE WHEN BOTH UNITS ARE OPERATED AT SAME SPEED AND TRANSMISSION IS CONTINUOUS.

NOTE 1 --- END OF STOP PULSE IMAGE SHOULD NOT VARY FROM THE 142 MARK BY MORE THAN 1/2 SCALE DIVISION. IF A GREATER VARIATION OCCURS, MOVE THE SCALE UNTIL THE VARIATIONS EXTEND EQUALLY ON EITHER SIDE OF THE 142 MARK.

(SPEEDS UP TO AND INCLUDING 100 W.P.M.) REQUIREMENTS 1. EACH MARKING CODE PULSE SHOULD START NO LATER THAN THE

- 5TH MARK OF THE PULSE UNDER OBSERVATION AND START NO EARLIER THAN 95TH MARK OF THE PREVIOUS PULSE. EACH MARKING CODE PULSE SHOULD END NO EARLIER THAN THE 95TH MARK OF THE PULSE UNDER OBSERVATION AND END
- NO LATER THAN THE 5TH MARK OF THE FOLLOWING PULSE. EACH MARKING CODE PULSE MAY HAVE ONE BREAK PROVIDED THE BREAK IS NOT OVER ONE DIVISION WIDE AND PROVIDED THE BREAK OCCURS ONLY AT THE END OF CODE PULSE IMAGE BETWEEN THE 95TH MARK AND THE END OF THE IMAGE.
- 4. THE STOP PULSE SHOULD START NO EARLIER THAN THE 95TH MARK OF THE 5TH PULSE AND START NO LATER THAN THE 5TH MARK OF THE STOP POSITION. (See Note 2)-

TO ADJUST --- WITH SIGNAL CONTACT BOX MOUNTING SCREWS FRICTION TIGHT, ROTATE THE ECCENTRIC (RIGHT OR LEFT). TIGHTEN MOUNTING SCREWS AND RECHECK ADJUSTMENT.

NOTE 2 ---- THE STOP IMAGE SHOULD NOT CHANGE IN LENGTH OR POSITION WHEN VIEWED ON TEST SET WHILE CHANGING FROM "R" TO "Y" SELECTION. TO ADJUST --- REPOSITION STABILIZER MECHANISM SO THAT END OF STOP IMAGE COINCIDES WITH THE 142 MARK ON THE SCALE. (DO NOT REMOVE THE SCALE.) SIGNAL CONTACT BOX CONTACT BOX

NOTE 3-- IF ABOVE REQUIREMENTS CANNOT BE MET REFINE TRANSFER-BAIL STABILIZER REQUIREMENT WITH SIGNAL VIEWED ON TEST SET.

MOUNTING SCREW

TEST SET SCALE 142 MARK

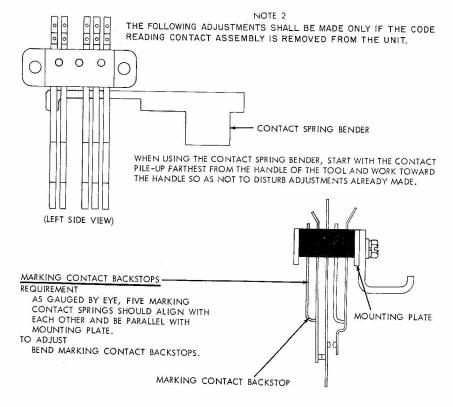
CONTACT BOX **ECCENTRIC**

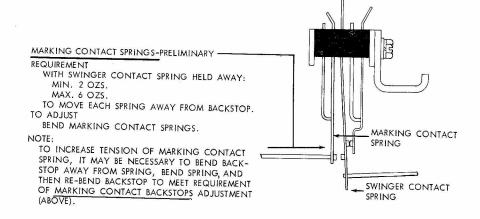
B. Auxiliary Features

Multiple Wire Output Facilities

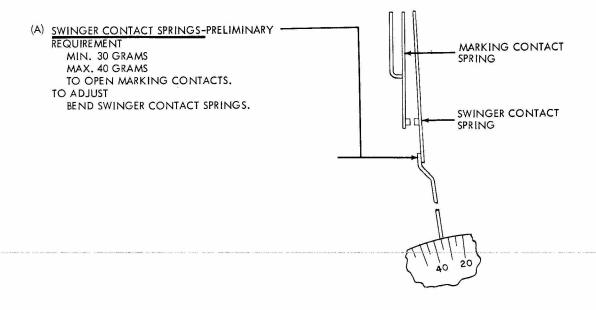
2.23 Code Reading and Timing Contacts

UNLESS SPECIFICALLY STATED OTHERWISE, THE FOLLOWING CODE READING CONTACT ADJUSTMENTS APPLY TO BOTH THE TRANSFER (BREAK BEFORE MAKE) TYPE AND MAKE TYPE CONTACTS. WHEN AN ADJUSTMENT IS APPLICABLE TO BOTH TYPES, THE TRANSFER TYPE CONTACTS ARE USED IN THE ILLUSTRATIONS. WHEN TESTING THESE CONTACTS ON ASR SETS THE CONTROL KNOB SHOULD BE IN THE K-T POSITION.

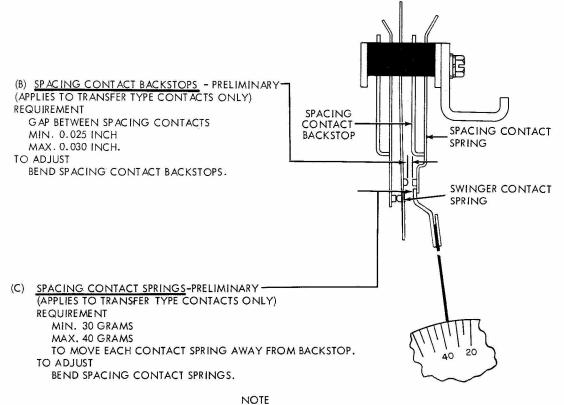




2.24 Code Reading and Timing Contacts

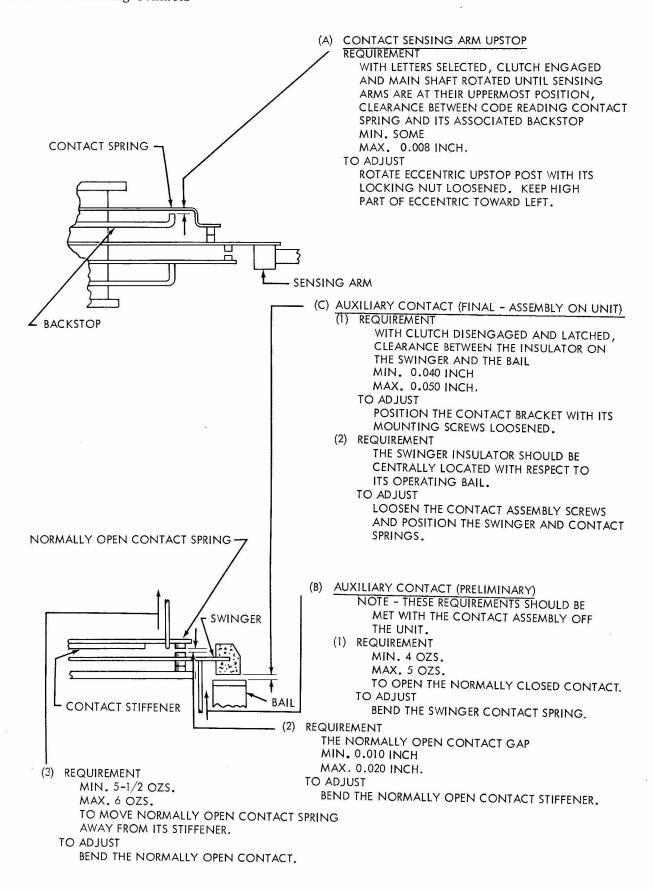


NOTE: SPACING CONTACTS (ON TRANSFER TYPE CONTACT ASSEMBLIES ONLY) ARE NORMALLY OPEN WHEN CONTACT ASSEMBLY IS REMOVED FROM UNIT.

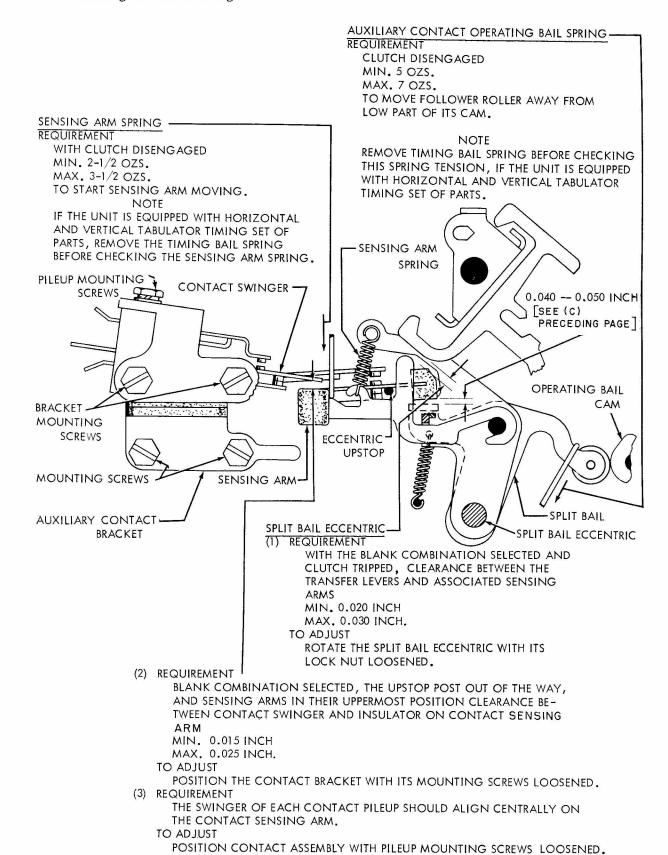


TO INCREASE TENSION OF SPRING, IT MAY BE NECESSARY TO BEND BACKSTOP AWAY FROM SPRING, BEND SPRING, AND THEN RE-BEND BACKSTOP TO MEET REQUIREMENT OF <u>SPACING CONTACT BACKSTOPS</u> ADJUSTMENT ABOVE.

2.25 Code Reading Contacts

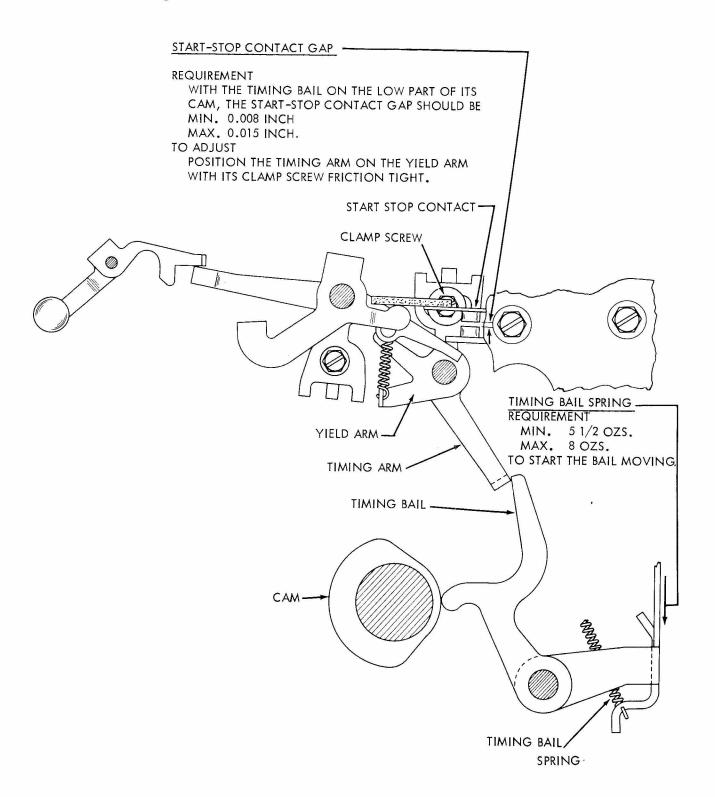


2.26 Code Reading Contact Sensing Arm



Tabulator Control

2.27 Transmitter-stop Mechanism



Modification Kit to Permit Use of 11/16-inch and 7/8-inch 5-level Tape Interchangeably

2.28 Tape Guide

RIGHT AND LEFT GUIDE ADJUSTMENT

REQUIREMENT

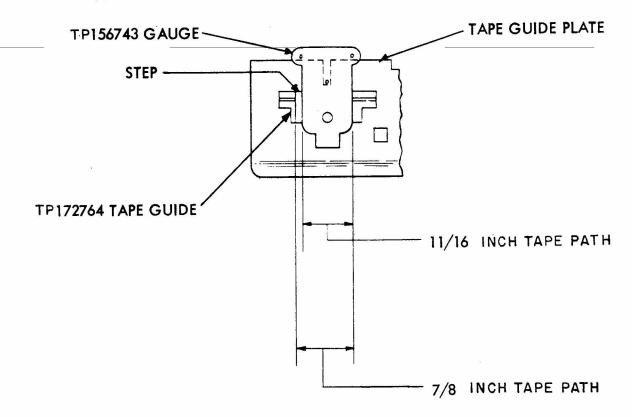
WITH THE TP156743 GUIDE INSERTED BETWEEN THE RIGHT TAPE GUIDE AND THE LEFT TAPE GUIDE,

THE GAUGE MAY TOUCH EITHER GUIDE BUT SHOULD NOT BIND.

CLEARANCE SHALL NOT EXCEED 0.003 INCH.

TO ADJUST

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



Modification Kit to Convert 28H to 28H-1 Transmitter-Distributor

2.29 Tape-lid Sensing Lever

TAPE LID SENSING LEVER SPRING
REQUIREMENT
TAPE LID OPEN
MIN. 20 GRAMS
MAX. 35 GRAMS
TO SEPARATE SWITCH LEVER
FROM SWINGER.

