DATASPEED TAPE-TO-TAPE SYSTEM

TYPE 1 AND TYPE 2 TAPE SENDERS AND RECEIVERS

CABINETS

ADJUSTMENTS

CONTENTS PAGE

1. GENERAL

1.01 This section provides adjustments for the cabinets of DATASPEED Tape Senders 1A and 2A, and Tape Receivers 1B and 2B. It is reissued to incorporate the latest requirements on the: chad depressor spring, tape supply brake arm (without spring), tape winder arm spring, tape winder switch, and to rearrange text. Arrows in the margin indicate changes or additions.

1.02 Unless otherwise specified, the general routines for maintaining the apparatus, the tools and materials to be used, and their method of application are the same as those shown in the sections giving general maintenance information for teletypewriter apparatus.

1.03 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 is indicated by the letters (A), (B), (C), etc.

1.04 Unless specifically stated otherwise, references to left or right, front or rear, and up or down apply to the apparatus in its normal operating position as viewed from the front.

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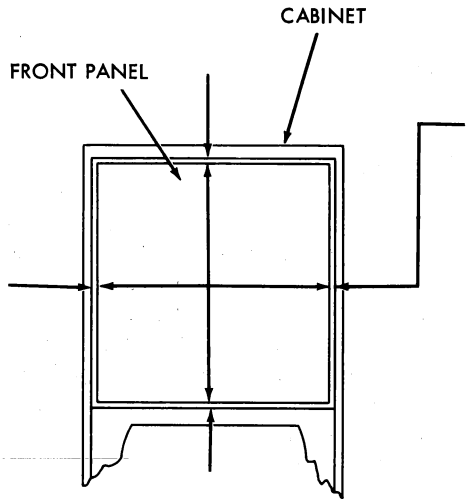
2. SENDER CABINET AND RECEIVER CABINETS (COMMON ADJUSTMENTS)

2.01 Front Panel

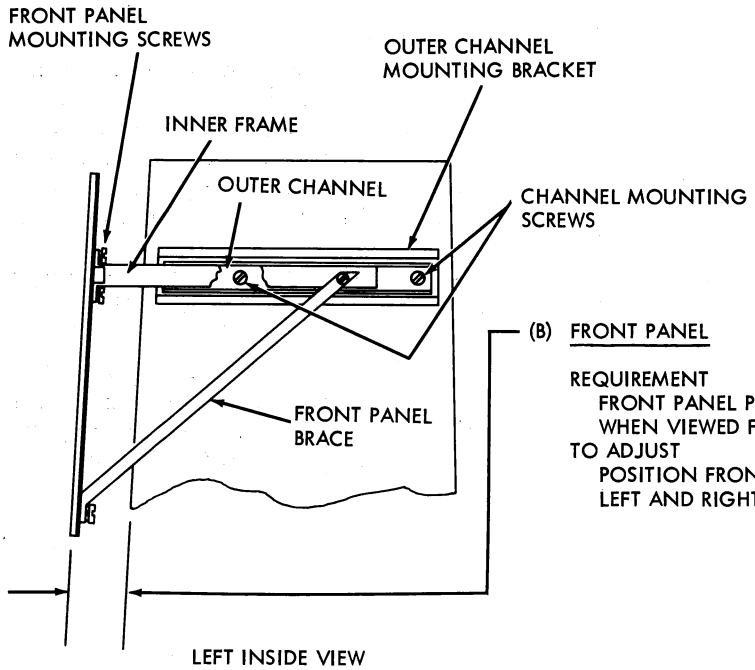


FRONT VIEW

(A) FRONT PANEL

REQUIREMENT
EQUAL GAP BETWEEN FRONT PANEL AND CABINET SHELL MEASURED ALL AROUND FRONT PANEL. GAUGE BY EYE.

TO ADJUST
(1) LOOSEN RIGHT AND LEFT OUTER CHANNEL MOUNTING SCREWS FRICTION TIGHT. POSITION CHANNELS UP OR DOWN UNTIL TOP AND BOTTOM GAP BETWEEN FRONT PANEL AND CABINET ARE ABOUT EQUAL. TIGHTEN SCREWS.
(2) WITH FRONT PANEL MOUNTING SCREWS LOOSENED, POSITION PANEL TO LEFT OR RIGHT UNTIL GAPS BETWEEN SIDES OF PANEL AND CABINET ARE ABOUT EQUAL.



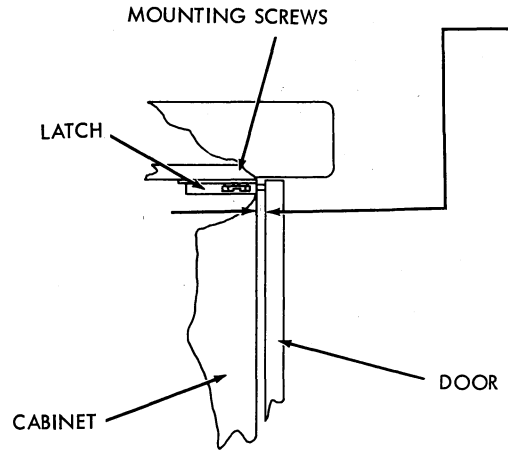
LEFT INSIDE VIEW

(B) FRONT PANEL

REQUIREMENT
FRONT PANEL PARALLEL TO CABINET CONTOUR WHEN VIEWED FROM SIDE. GAUGE BY EYE.

TO ADJUST
POSITION FRONT PANEL WITH REAR SCREW OF LEFT AND RIGHT BRACE LOOSENED.

2.02 Door Catch

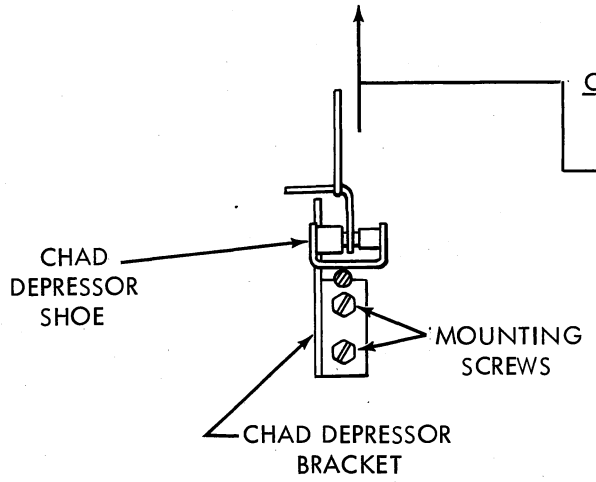


DOOR CATCH
(1) REQUIREMENT (PRELIMINARY)
MIN 0.080 INCH---MAX 0.100 INCH CLEARANCE BETWEEN DOOR AND CABINET IN LATCH AREA.
(2) REQUIREMENT (FINAL)
WHEN DOOR IS PRESSED FIRMLY IN AREA OF LATCH IT SHALL OPEN , AND WHEN IT IS PRESSED CLOSED IT SHALL LATCH
TO ADJUST
POSITION LATCH TO FRONT OR REAR WITH ITS MOUNTING SCREW LOOSENED.

(LEFT SIDE VIEW)

3. SENDER CABINETS

3.01 Chad Depressor Spring and Chad Depressor Bracket



CHAD DEPRESSOR SPRING
REQUIREMENT
MIN 18 OZ --- MAX 28 OZ
TO LIFT CHAD DEPRESSOR SHOE OFF POST

TO ADJUST

LOOSEN SCREWS HOLDING DEPRESSOR BRACKET AND POSITION BRACKET UP OR DOWN TO MEET REQUIREMENT.

3.02 Chad Depressor Spring and Chad Depressor Bracket (continued)

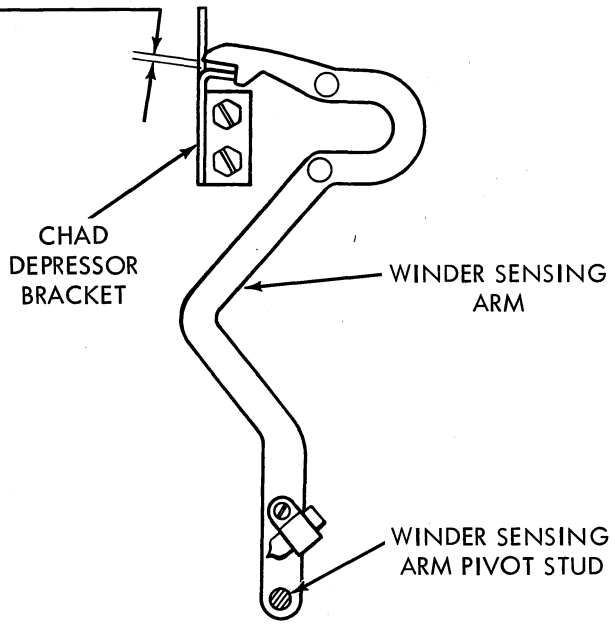
CHAD DEPRESSOR BRACKET

REQUIREMENT

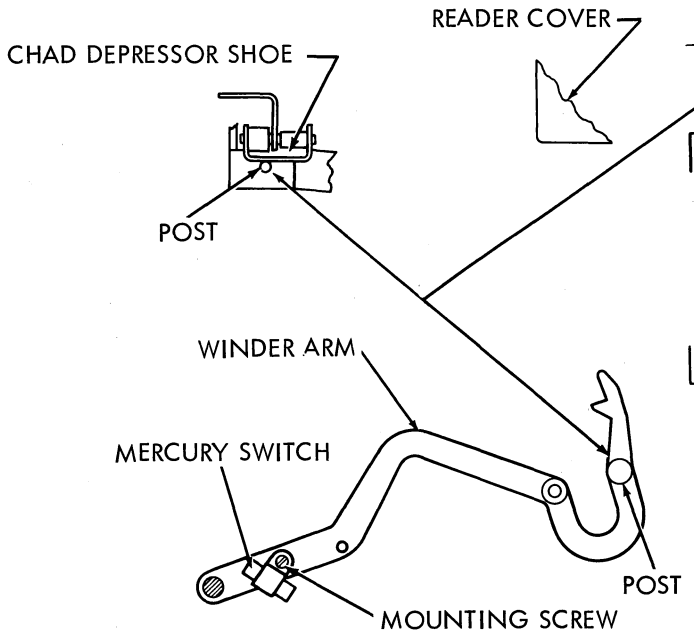
MIN. SOME---MAX. .030 INCH CLEARANCE BETWEEN SENSING ARM AND DEPRESSOR BRACKET WHEN SENSING ARM IS HELD AGAINST DEPRESSOR BRACKET. (HOLD DEPRESSOR ARM CLEAR OF WINDER ARM)

TO ADJUST

LOOSEN THE NUT SECURING THE WINDER SENSING ARM PIVOT STUD. POSITION STUD UP OR DOWN TO MEET REQUIREMENT



3.03 Tape Winder Switch



TAPE WINDER SWITCH

(1) REQUIREMENT

WINDER MOTOR STARTS WHEN TOP POST ON WINDER ARM IS: MIN. 5-1/2 INCHES --- MAX. 6 INCHES FROM CHAD DEPRESSOR POST.

NOTE: IT MAY BE NECESSARY TO REFINE THE 5-1/2 TO 6 INCH ADJUSTMENT REQUIREMENT WITHIN REQUIRED LIMITS IF TAPE ARM RISES HIGH ENOUGH WHEN APPROACHING A FULL ROLL OF TAPE TO PULL TAPE FROM TAPE READER. CHECK THAT MOTOR STARTS BEFORE WINDER ARM REACHES WITHIN 1/4 INCH OF STOPPING ON WINDER ARM COVER.

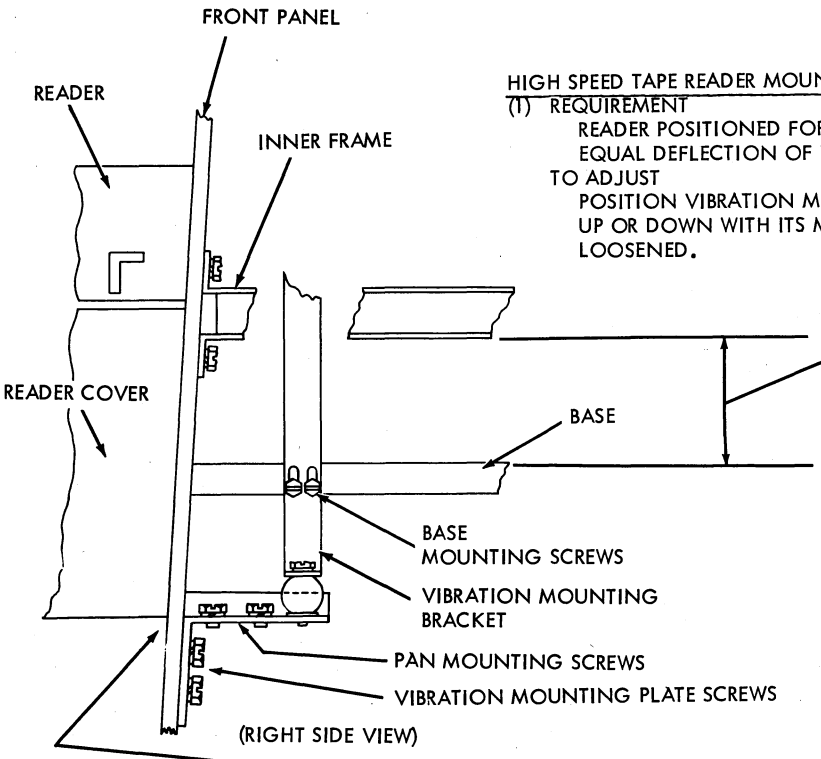
(2) REQUIREMENT

MERCURY SWITCH ELECTRODES POSITIONED IN A HORIZONTAL PLANE.

TO ADJUST

(1) LOOSEN MERCURY MOUNTING CLAMP SCREW TO FRICTION TIGHT.
(2) ROTATE SWITCH IN ITS CLAMP UNTIL ELECTRODES ARE IN HORIZONTAL PLANE.
(3) HOLDING WINDER ARM IN POSITION, PIVOT SWITCH AND CLAMP SO MOTOR STARTS. TIGHTEN CLAMP SCREW.

3.04 Tape Reader 1A and 2A Mounting

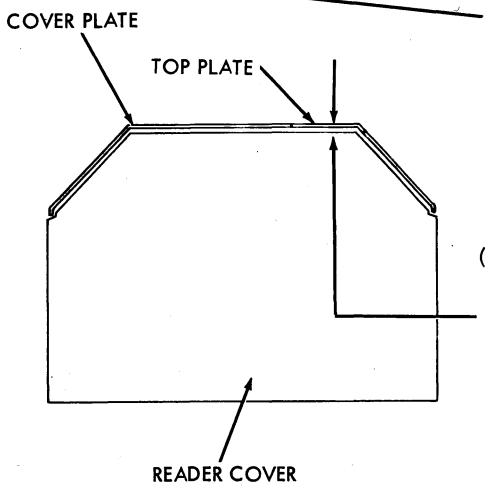


HIGH SPEED TAPE READER MOUNTING

(1) REQUIREMENT
READER POSITIONED FOR APPROXIMATELY EQUAL DEFLECTION OF VIBRATION MOUNTS.
TO ADJUST
POSITION VIBRATION MOUNTING PLATE UP OR DOWN WITH ITS MOUNTING SCREWS LOOSENED.

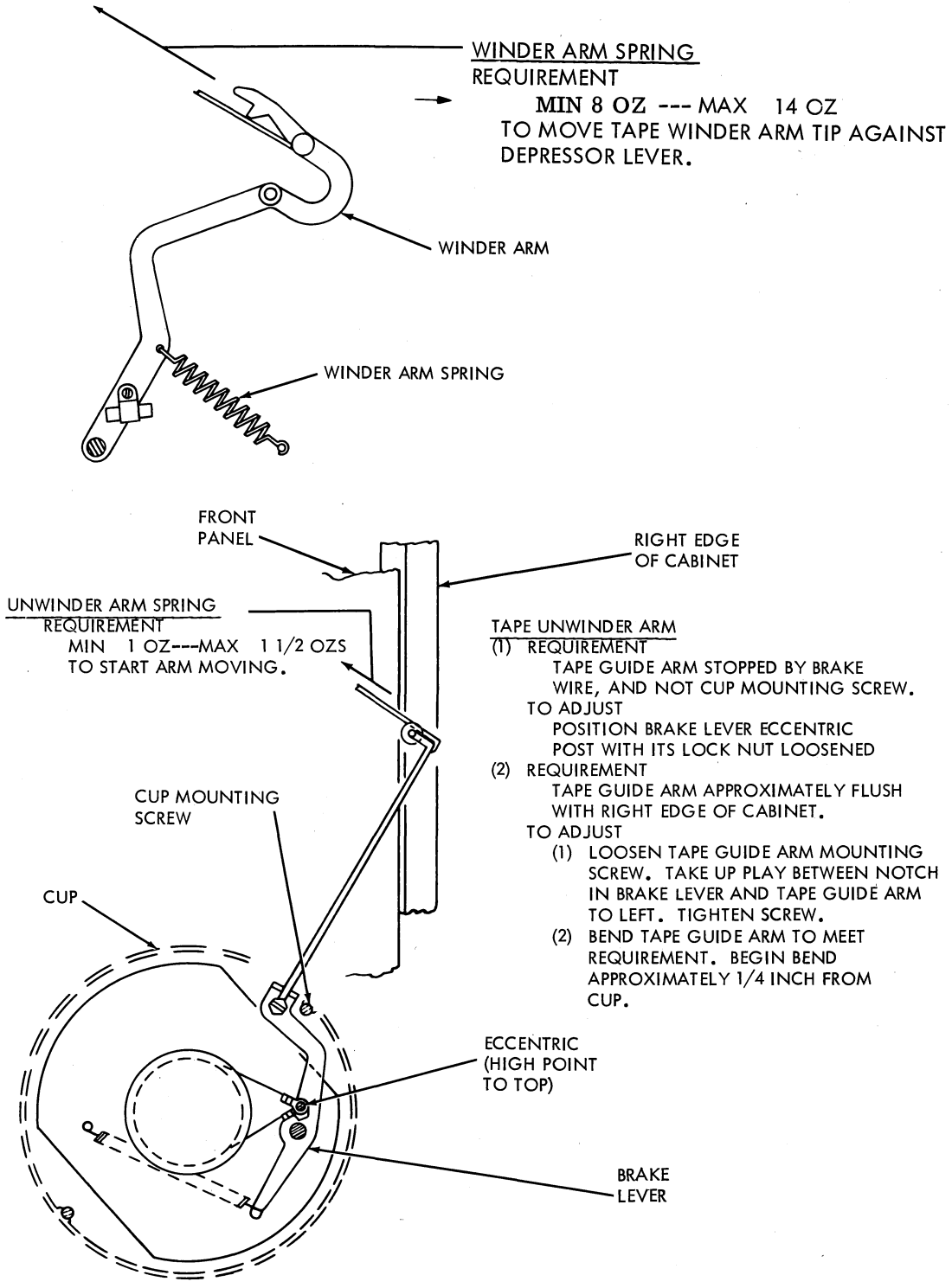
PARALLEL (AS GAUGED BY EYE)

(3) REQUIREMENT
READER FRONT COVER RESTS AGAINST FRONT PANEL.
TO ADJUST
LOOSEN PAN MOUNTING SCREWS. POSITION PAN IN OR OUT TO MEET REQUIREMENT.



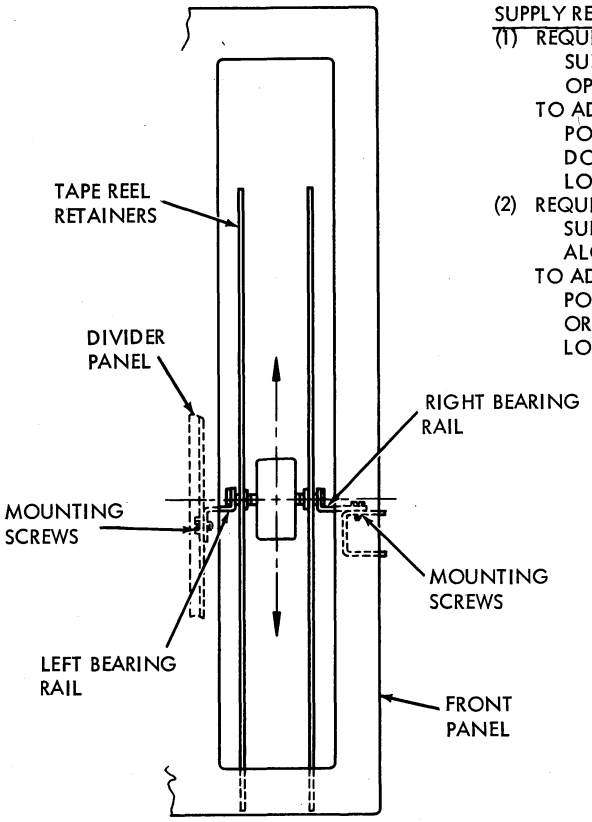
(2) REQUIREMENT
APPROXIMATELY 1/8 INCH CLEARANCE BETWEEN READER TOP PLATES AND REMOVABLE COVER WHEN BASE IS PARALLEL (AS GAUGED BY EYE) TO INNER FRAME.
TO ADJUST
LOOSEN BASE MOUNTING SCREWS. POSITION BASE UP OR DOWN TO MEET REQUIREMENT.

3.05 Winder Arm and Unwinder Arm Springs, and Tape Unwinder Arm



4. RECEIVER CABINETS

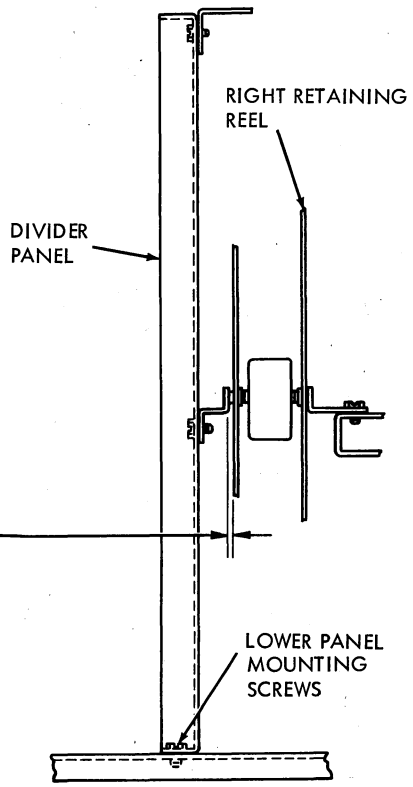
4.01 Supply Reel Bearing Rail and Divider Panel



SUPPLY REEL BEARING RAIL

(1) REQUIREMENT
SUPPLY REEL PARALLEL TO FRONT PANEL OPENING ALONG VERTICAL AXIS.
TO ADJUST
POSITION LEFT BEARING RAIL UP OR DOWN WITH ITS MOUNTING SCREWS LOOSENED. TIGHTEN SCREWS.

(2) REQUIREMENT
SUPPLY REEL PARALLEL TO BEARING RAILS ALONG HORIZONTAL AXIS.
TO ADJUST
POSITION RIGHT BEARING RAIL TO FRONT OR REAR WITH ITS MOUNTING SCREWS LOOSENED. TIGHTEN SCREWS.



DIVIDER PANEL

REQUIREMENT
MIN SOME---MAX. 0.030 INCH CLEARANCE BETWEEN LEFT BEARING RAIL AND LEFT RETAINING REEL HUB WHEN REEL ASSEMBLY (11/16" OR 1") IS HELD AGAINST RIGHT RAIL (GAUGE BY EYE).
TO ADJUST
POSITION DIVIDER PANEL TO LEFT OR RIGHT WITH ITS LOWER MOUNTING SCREWS LOOSENED.

4.02 Tape Brake Arm and Low Tape Alarm

TAPE SUPPLY BRAKE ARM (WITHOUT SPRING)

(1) REQUIREMENT

CLEARANCE BETWEEN TAPE ARM ROLLER AND TAPE GUIDE ROLLER

MIN 5 INCHES

WHEN TAPE IS RESTING ON FULL (3000 FT) TAPE ROLL

TO ADJUST

BEND BRAKE ARM UP OR DOWN

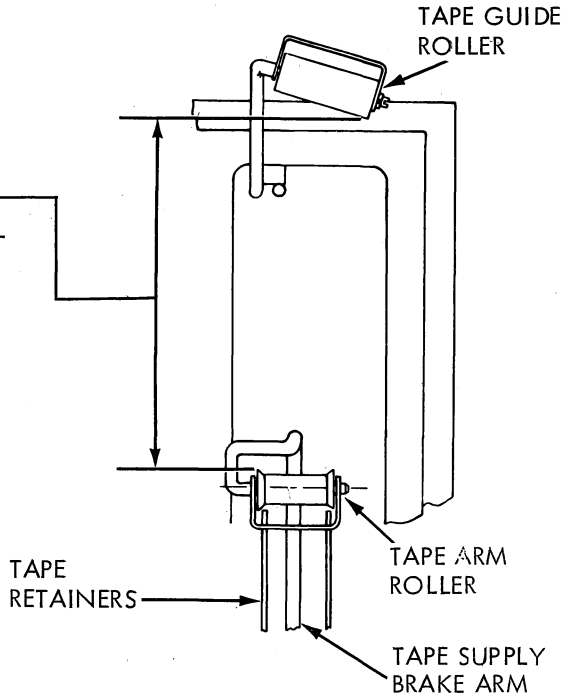
NOTE 1: WITH TAPE DEPLETED AND ITS INNER CORE ON REEL, INCREASE BRAKE ARM CLEARANCE MIN. 2 INCHES --- MAX. 2-1/16 INCHES

(2) REQUIREMENT

WITH AN EMPTY SUPPLY REEL IN PLACE, BRAKE ARM PASSES FREELY BETWEEN RETAINERS

TO ADJUST

BEND BRAKE ARM TO RIGHT OR LEFT



TAPE SUPPLY BRAKE ARM (WITH SPRING)

(1) REQUIREMENT

WITH UPPER EDGE OF TAPE SUPPLY BRAKE ARM HELD AT A POSITION 2-1/4 INCHES BELOW THE TOP OF THE FRONT PANEL CUTOUT, THE ADJUSTABLE COLLAR SHALL TOUCH AGAINST THE LOWER GUIDE PLATE

TO ADJUST

LOOSEN COLLAR SET SCREW AND POSITION COLLAR

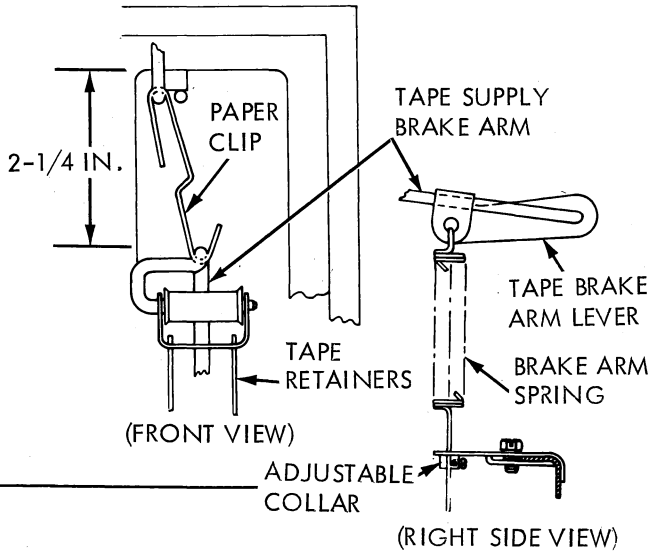
NOTE 2: A PAPER CLIP MAY BE USED TO HOLD BRAKE ARM IN POSITION.

(2) REQUIREMENT

WITH AN EMPTY SUPPLY REEL IN PLACE, BRAKE ARM PASSES FREELY BETWEEN RETAINERS

TO ADJUST

BEND BRAKE ARM TO RIGHT OR LEFT



LOW TAPE ALARM

(1) REQUIREMENT

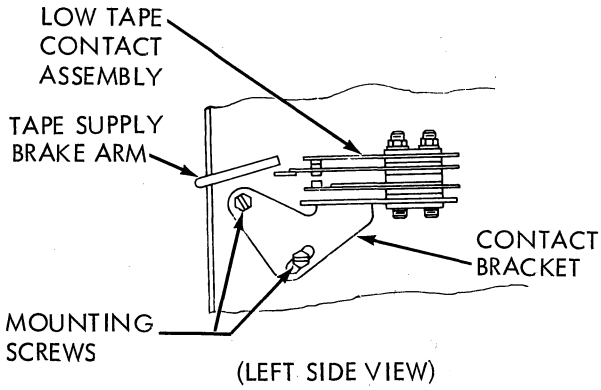
LOW TAPE ALARM LAMP LIGHTS WHEN DIAMETER OF TAPE ROLL IS 4 INCHES

(2) REQUIREMENT

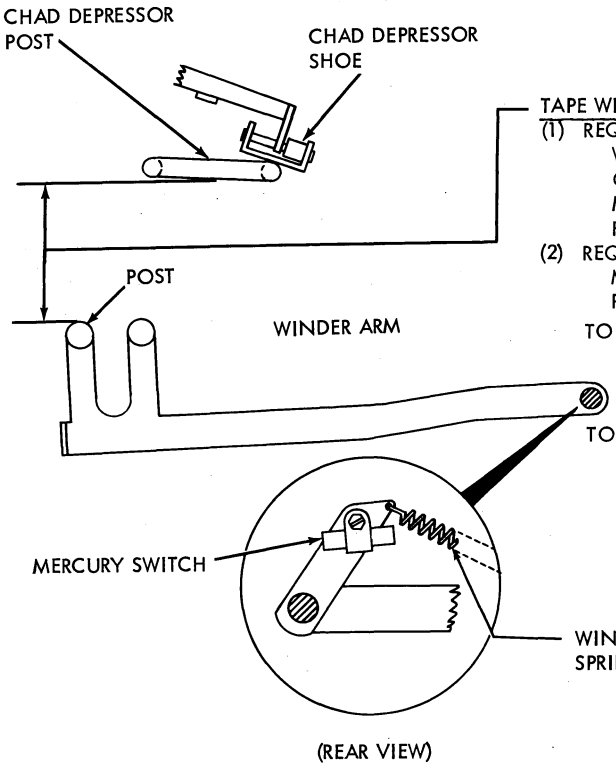
LOW TAPE ALARM LAMP DOES NOT LIGHT WHEN DIAMETER OF TAPE ROLL IS 5 INCHES

TO ADJUST

POSITION CONTACT BRACKET WITH ITS MOUNTING SCREWS FRICTION TIGHT



4.03 Tape Winder Switch and Winder Arm Spring



TAPE WINDER SWITCH

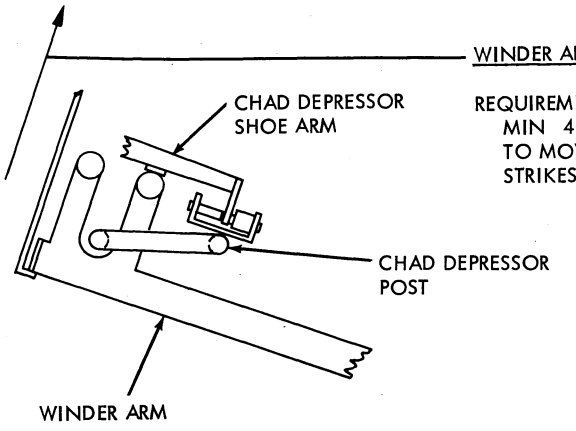
(1) REQUIREMENT
WINDER MOTOR STARTS WHEN TOP POST ON WINDER ARM IS:
MIN 3 INCHES——MAX 3-1/2 INCH
FROM CHAD DEPRESSOR POST.

(2) REQUIREMENT
MERCURY SWITCH ELECTRODES POSITIONED IN A HORIZONTAL PLANE.

TO CHECK
PULL FRONT PANEL FORWARD TO PROVIDE ACCESS TO MERCURY SWITCH.

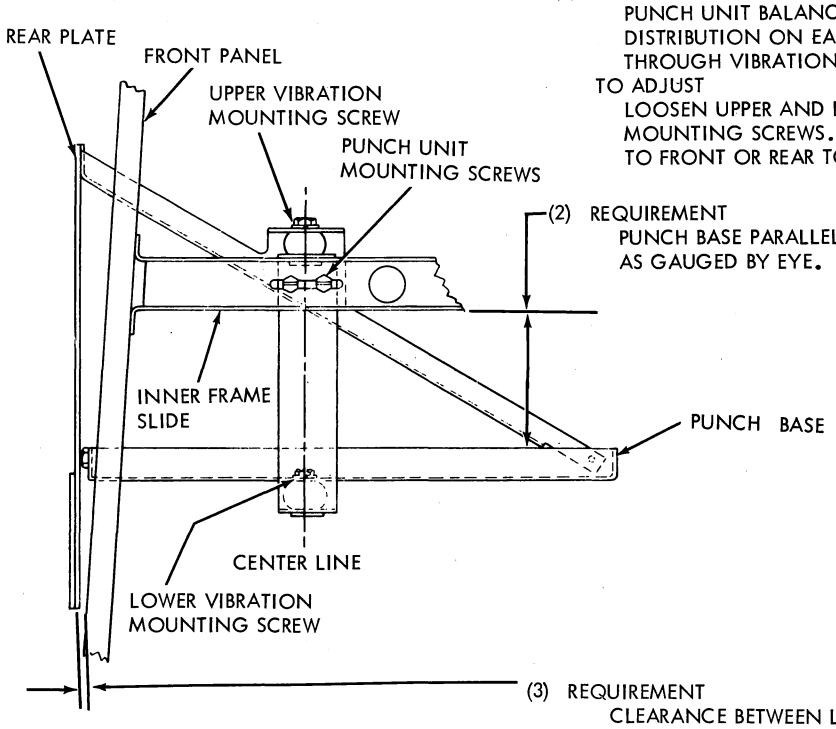
TO ADJUST
(1) LOOSEN MERCURY SWITCH CLAMP MOUNTING SCREW TO FRICTION TIGHT.
(2) ROTATE SWITCH IN ITS CLAMP UNTIL ELECTRODES ARE IN HORIZONTAL PLANE.
(3) HOLDING WINDER ARM IN POSITION, PIVOT SWITCH AND CLAMP SO MOTOR STARTS. TIGHTEN CLAMP SCREW.

WINDER ARM SPRING



REQUIREMENT
MIN 4-1/2 OZ --- MAX 9 OZ
TO MOVE TAPE WINDER ARM UP UNTIL IT STRIKES THE CHAD DEPRESSOR SHOE ARM.

4.04 Tape Punch 1B and 2B Mounting



HIGH SPEED TAPE PUNCH MOUNTING

(1) REQUIREMENT
PUNCH UNIT BALANCED FOR EQUAL WEIGHT DISTRIBUTION ON EACH SIDE OF CENTER LINE THROUGH VIBRATION MOUNTING BRACKET.
TO ADJUST
LOOSEN UPPER AND LOWER VIBRATION MOUNTING SCREWS. POSITION PUNCH UNIT TO FRONT OR REAR TO MEET REQUIREMENT.

(2) REQUIREMENT
PUNCH BASE PARALLEL TO INNER FRAME SLIDE AS GAUGED BY EYE.

(3) REQUIREMENT
CLEARANCE BETWEEN LOWER EDGE OF PUNCH REAR PLATE AND FRONT PANEL:
3/16 INCH ± 1/16 INCH.
TO ADJUST
LOOSEN PUNCH UNIT MOUNTING SCREWS. POSITION PUNCH UNIT TO FRONT OR REAR TO MEET REQUIREMENT.