"DATASPEED"

SENDER CABINET 1A AND RECEIVER CABINET 1B

REQUIREMENTS AND ADJUSTMENTS

1. GENERAL

1.01 This section contains the specific requirements and adjustments for the "DATA-SPEED" sender cabinet 1A and receiver cabinet 1B. Unless otherwise specified herein, the general routines for maintaining this apparatus, the tools and materials to be used, and their methods of application are the same as those shown in the sections giving general maintenance information for teletypewriter apparatus.

1.02 In this section, 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.

2. REQUIREMENTS AND ADJUSTMENTS

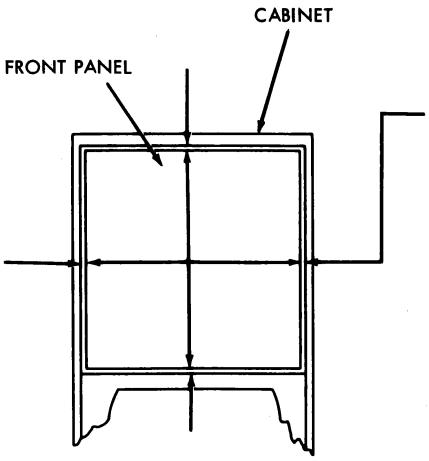
A. GENERAL

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

* This section replaces Section 592-210-706, Issue 1.

B. Sender Cabinet 1A and Receiver Cabinet 1B

2.02 Front Panel

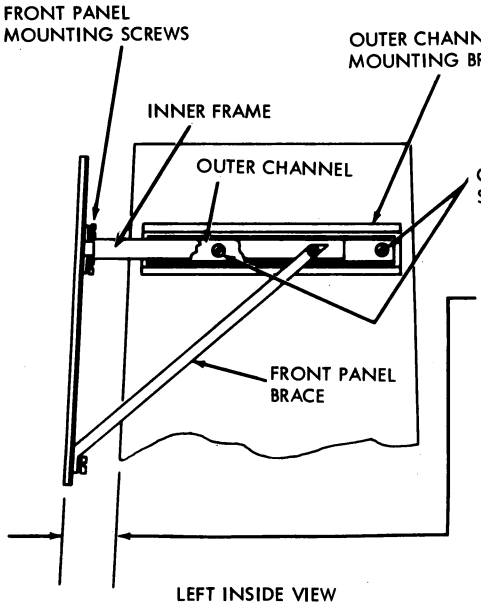


FRONT VIEW

(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.



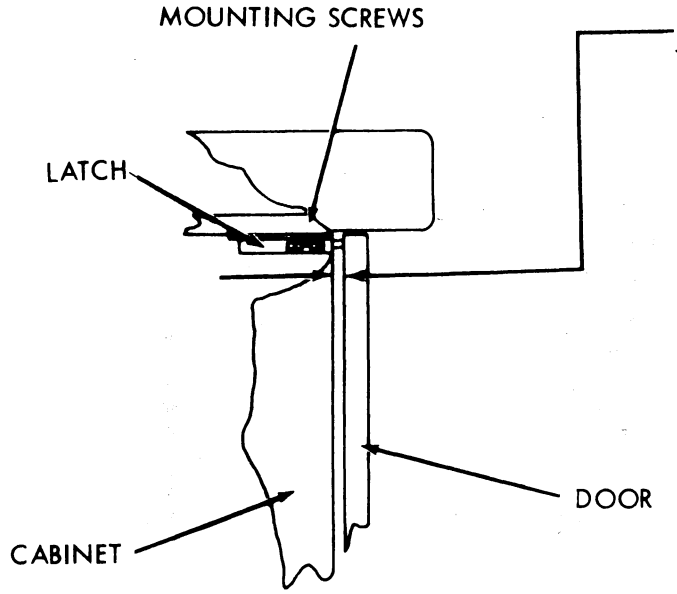
LEFT INSIDE VIEW

(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.

2.03 Door Catch and Chad Depressor Spring



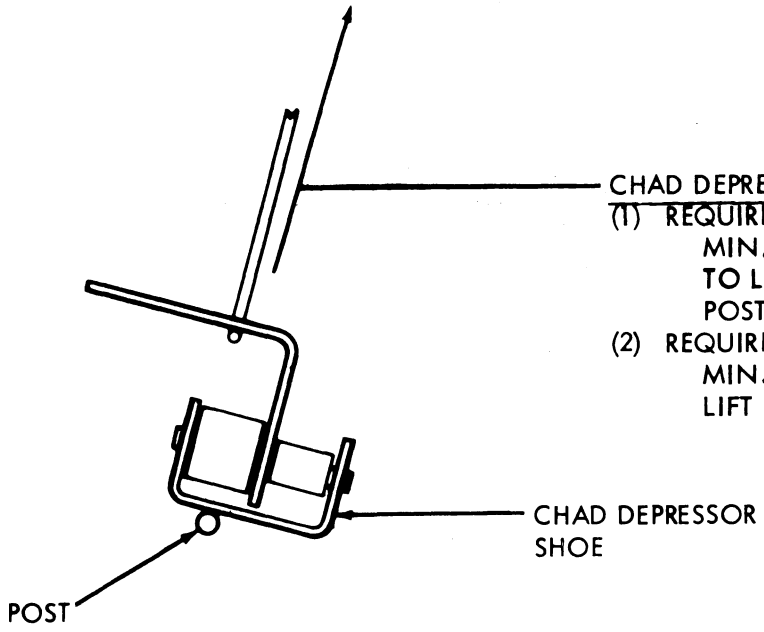
DOOR CATCH

(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)



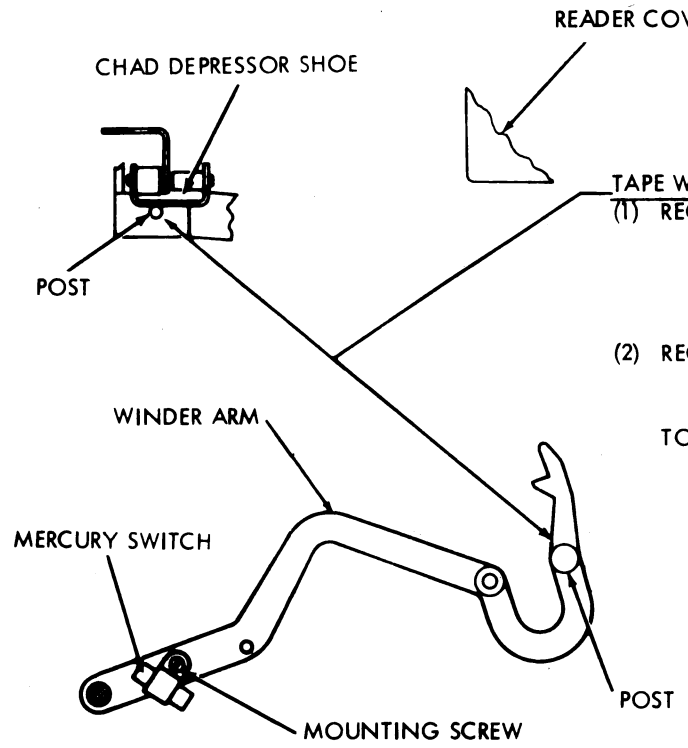
CHAD DEPRESSOR SPRING

(1) REQUIREMENT (RECEIVER CABINET)
MIN. 24 OZS.---MAX. 32 OZS. TO LIFT CHAD DEPRESSOR SHOE OFF POST.

(2) REQUIREMENT (SENDER CABINET)
MIN. 16 OZS.---MAX. 20 OZS. TO LIFT CHAD DEPRESSOR SHOE OFF POST.

C. Sender Cabinet 1A

2.04 Tape Winder Switch and Chad Depressor Bracket

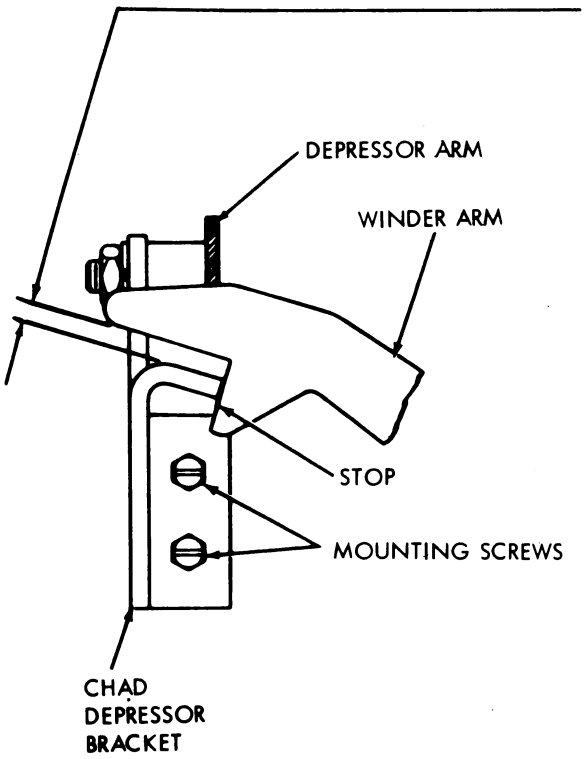


TAPE WINDER SWITCH

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

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

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.



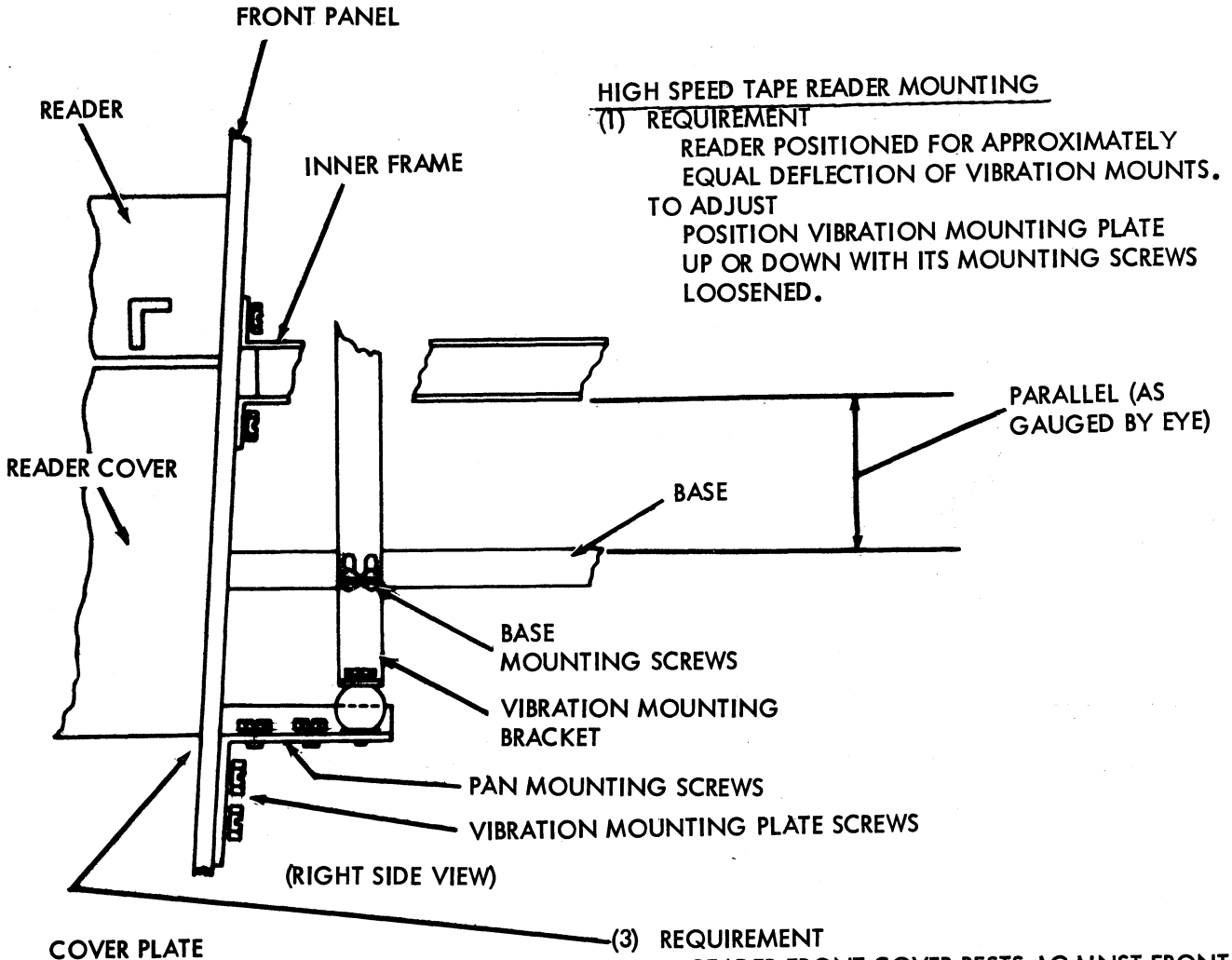
CHAD DEPRESSOR BRACKET

REQUIREMENT
MIN. SOME --- MAX. 0.030 INCH CLEARANCE BETWEEN WINDER ARM AND CHAD DEPRESSOR BRACKET WHEN WINDER ARM STOP IS HELD AGAINST BRACKET.

TO CHECK
HOLD DEPRESSOR ARM CLEAR OF WINDER ARM.

TO ADJUST
POSITION CHAD DEPRESSOR BRACKET WITH ITS MOUNTING SCREWS LOOSENED.

2.05 Tape Reader 1A, Mounting



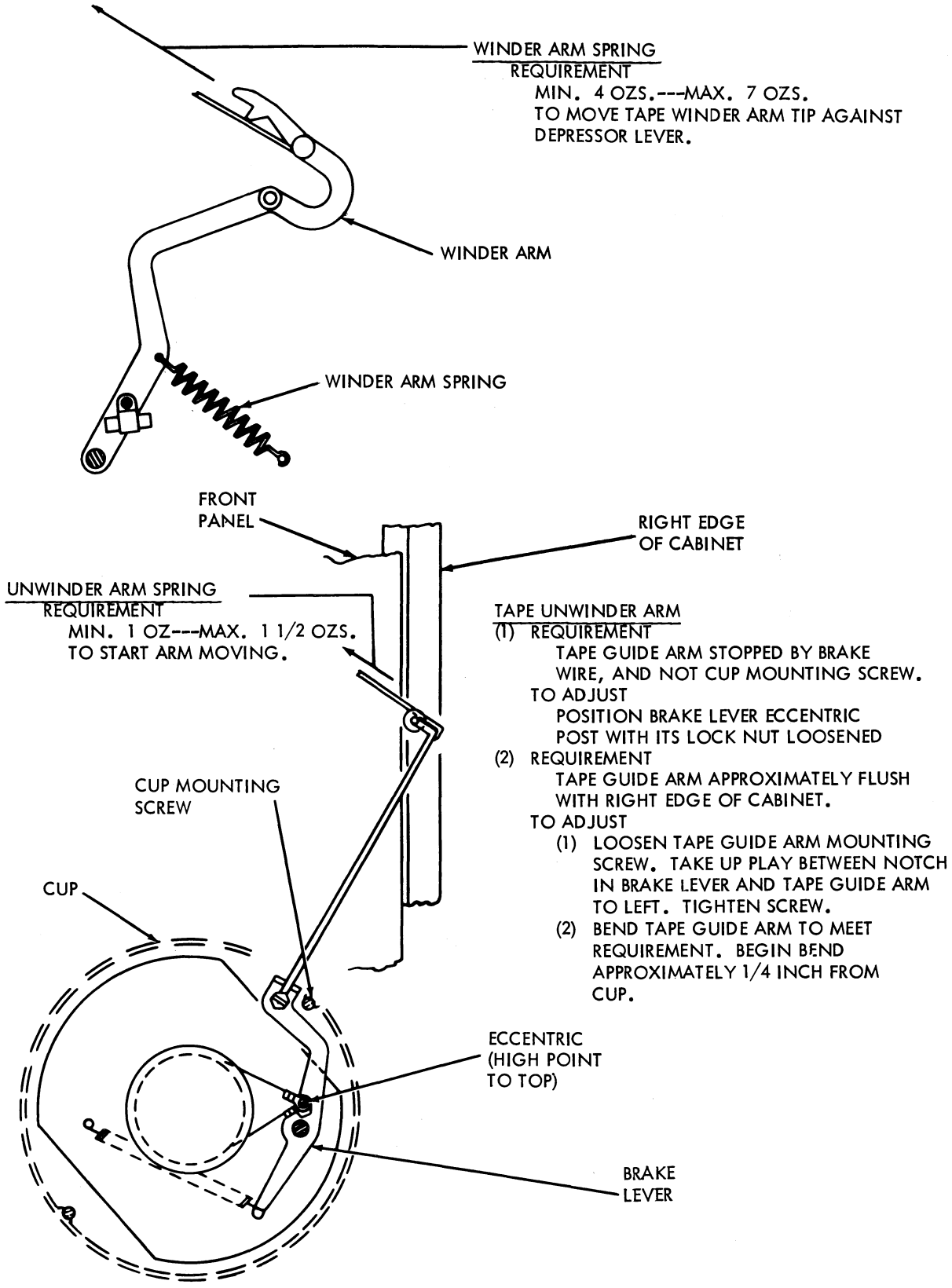
HIGH SPEED TAPE READER MOUNTING

(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.

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

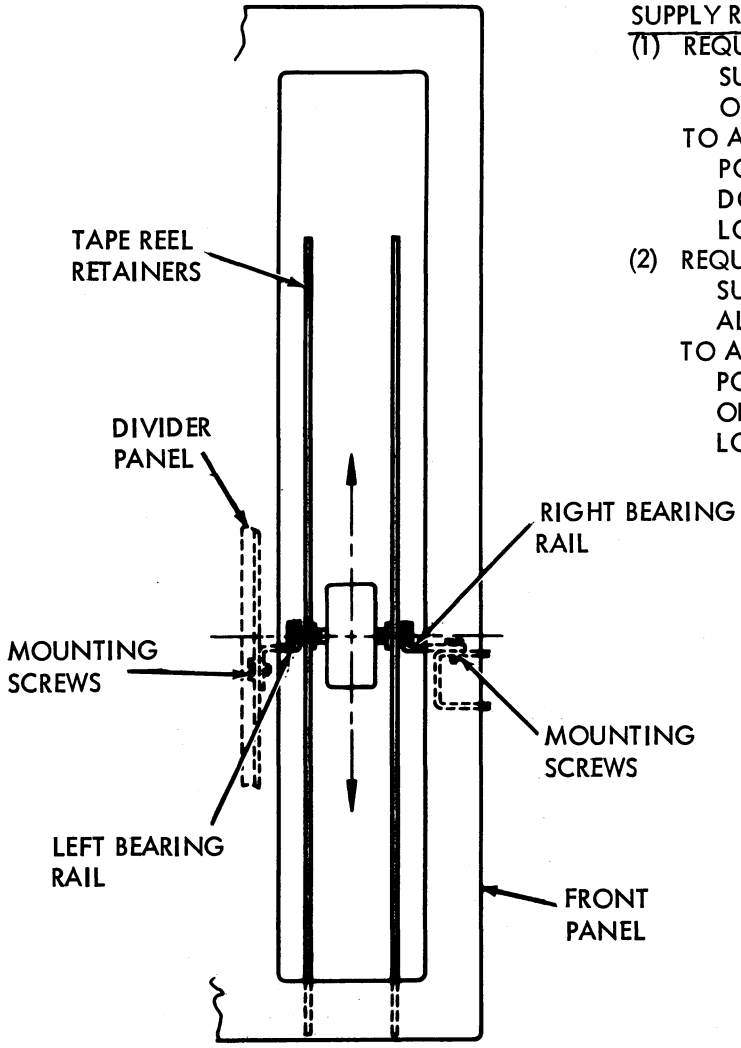
(2) REQUIREMENT
APPROXIMATELY 1/8 INCH CLEARANCE BETWEEN READER TOP PLATES AND REMOVABLE COVER WHEN BASE IS PARALLEL (AS GAUGED BY EYE) TO INNER FRAME.
TO ADJUST
LOOSEN BASE MOUNTING SCREWS. POSITION BASE UP OR DOWN TO MEET REQUIREMENT.

2.06 Winder Arm and Unwinder Arm Springs, and Tape Unwinder Arm



D. Receiver Cabinet 1B

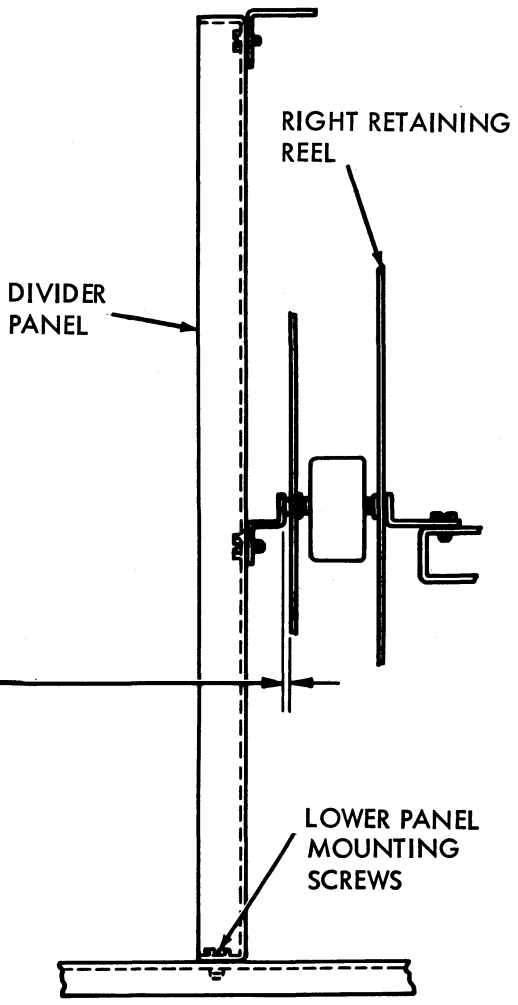
2.07 Supply Reel Bearing Rail and Divider Panel



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.

2.08 Tape Brake Arm and Low Tape Alarm

TAPE BRAKE ARM

(1) REQUIREMENT

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

TO ADJUST

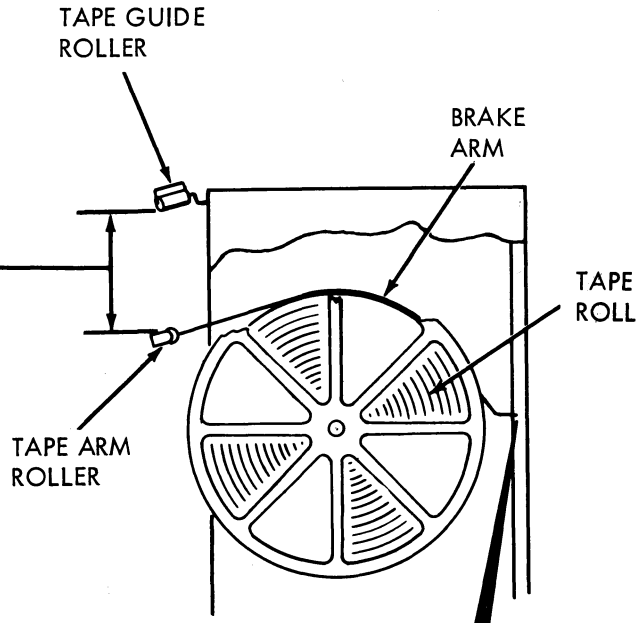
BEND BRAKE ARM TO RIGHT OR LEFT.

(2) REQUIREMENT

CLEARANCE BETWEEN TAPE ARM ROLLER AND TAPE GUIDE ROLLER: MIN. 4 1/2 INCHES. WHEN TAPE ARM IS RESTING ON FULL (3000FT.) TAPE ROLL.

TO ADJUST

BEND BRAKE ARM.



(RIGHT SIDE VIEW)

LOW TAPE ALARM

(1) REQUIREMENT

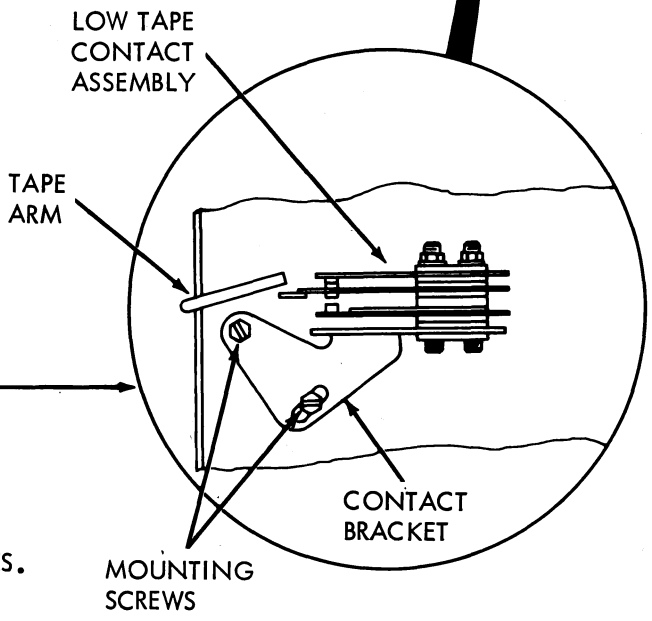
LOW TAPE ALARM LAMP LIGHTS WHEN DIAMETER OF TAPE ROLL IS 4 INCHES.

(2) REQUIREMENT

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

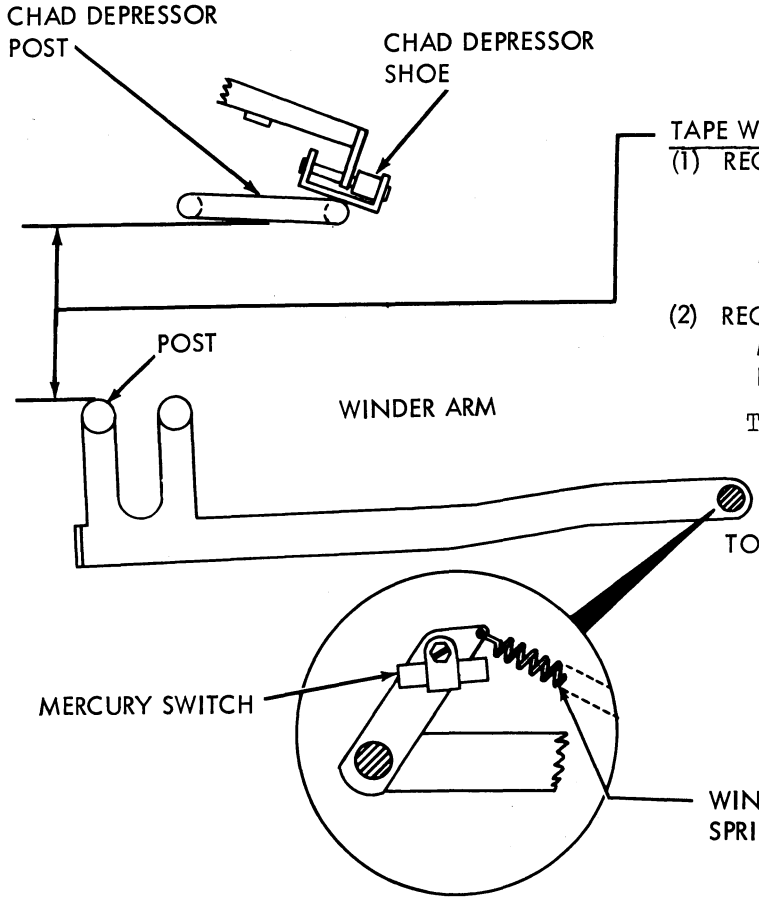
TO ADJUST

POSITION CONTACT BRACKET WITH ITS MOUNTING SCREWS FRICTION TIGHT.



(LEFT SIDE VIEW)

2.09 Tape Winder Switch and Winder Arm Spring



(REAR VIEW)

TAPE WINDER SWITCH

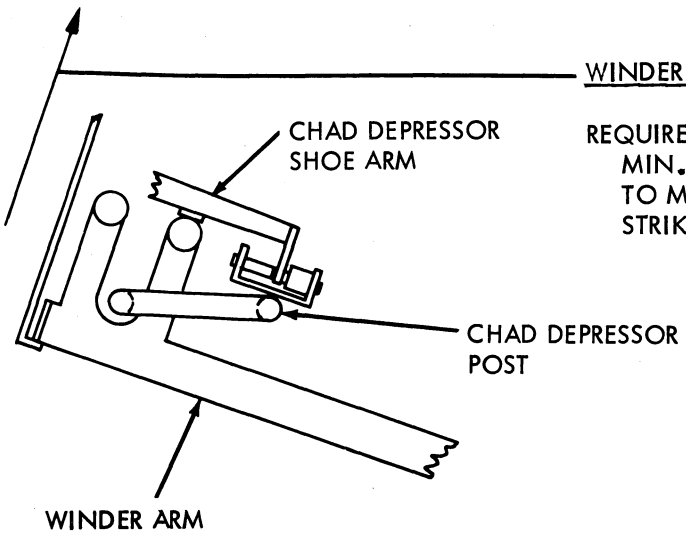
(1) REQUIREMENT
WINDER MOTOR STARTS WHEN TOP POST ON WINDER ARM IS:
MIN. 3 INCHES——MAX. 3 1/2 INCH FROM CHAD DEPRESSOR POST.

(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.

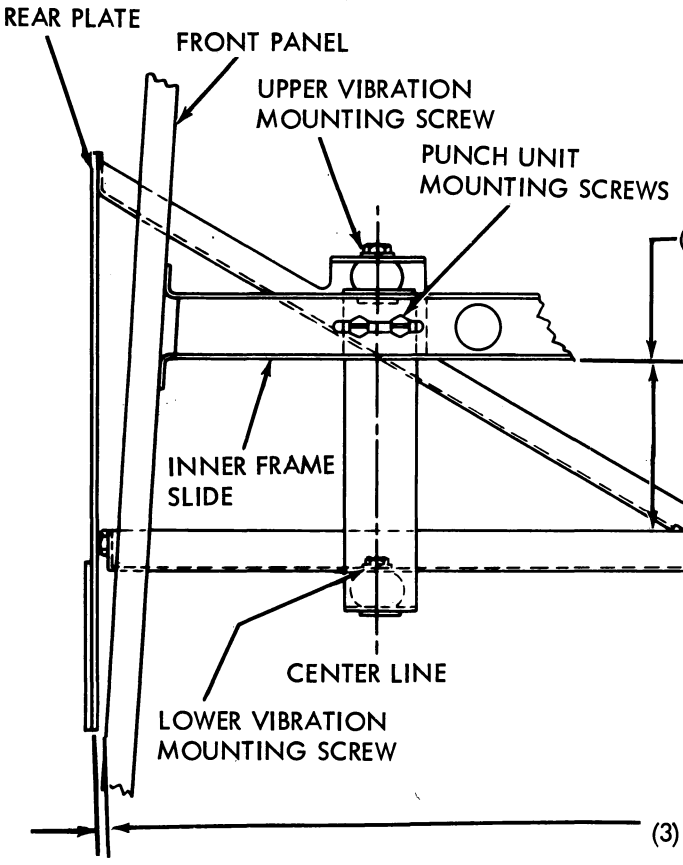
WINDER ARM SPRING



WINDER ARM SPRING

REQUIREMENT
MIN. 4-1/2 OZS. --- MAX. 6 OZS.
TO MOVE TAPE WINDER ARM UP UNTIL IT STRIKES THE CHAD DEPRESSOR SHOE ARM.

2.10 Tape Reperforator 1B 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.