DATASPEED TAPE TO TAPE SYSTEM

TYPE 1 AND TYPE 2 TAPE SENDERS AND RECEIVERS

CABINETS

REQUIREMENTS AND ADJUSTMENTS

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1. INTRODUCTION

1.01 This section contains the specific cabinet requirements and adjustments for DATASPEED 1A and 2A Tape Senders and 1B and 2B Tape Receivers. 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 teletype-writer apparatus.

1.02 This section is reissued to correct the chad depressor spring and bracket adjustment and to rearrange text.

2. REQUIREMENTS AND ADJUSTMENTS

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.

2.02 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.
SECTION 592-805-700

SENDER CABINETS AND RECEIVER CABINETS

2.03 Front Panel

(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.

(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.
2.04 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)

SENDR CABINETS

2.05 Chad Depressor Spring and Chad Depressor Bracket

CHAD DEPRESSOR SPRING
REQUIREMENT
MIN. 16 OZS.—MAX. 20 OZS.
TO LIFT CHAD DEPRESSOR SHOE OFF POST
TO ADJUST
LOOSEN SCREWS HOLDING DEPRESSOR
BRACKET AND POSITION BRACKET UP OR
DOWN TO MEET REQUIREMENT.
2.05 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.
(HEL 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.

2.06 Tape Winder Switch

**TAPE WINDER SWITCH**

**REQUIREMENT**

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

(2) 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.
2.07 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)

2) REQUIREMENT
   APPROXIMATELY 1/8 INCH CLEARANCE
   BETWEEN READER TOP PLATES AND RE-
   MOVABLE 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) REQUIREMENT
   READER FRONT COVER RESTS AGAINST FRONT
   PANEL.
   TO ADJUST
   LOOSEN PAN MOUNTING SCREWS. POSITION
   PAN IN OR OUT TO MEET REQUIREMENT.
2.08 Winder Arm and Unwinder Arm Springs, and Tape Unwinder Arm

**Winder Arm Spring Requirement**
- Min. 4 ozs. -- Max. 7 ozs.
- To move tape winder arm tip against depressor lever.

**Unwinder Arm Spring Requirement**
- Min. 1 oz. -- Max. 1 1/2 ozs.
- To start arm moving.

1. **Requirement**
   - Tape guide arm stopped by brake wire, and not cup mounting screw.
   - To adjust position brake lever eccentric post with its lock nut loosened.

2. **Requirement**
   - Tape guide arm approximately flush with right edge of cabinet.
   - To adjust
     1. Loosen tape guide arm mounting screw, take up play between notch in brake lever and tape guide arm to left, tighten screw.
     2. Bend tape guide arm to meet requirement. Begin bend approximately 1/4 inch from cup.

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**Diagram Description**
- Winder arm and unwinder arm connections with springs.
- Diagram of tape unwinder arm.
- Cup mounting screw and brake lever positioning.

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RECEIVER CABINETS

2.09 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.

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.
2.10  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 4-1/2 INCHES WHEN TAPE IS RESTING ON FULL (3000 FT) TAPE ROLL
- TO ADJUST BEND BRAKE ARM UP OR DOWN

(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**
A PAPER CLIP MAY BE USED TO HOLD BREAK 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 FRICITION TIGHT
2.11 Tape Winder Switch and Winder Arm Spring

1. Tape Winder Switch
   (1) Requirement: Winder motor starts when top post on winder arm is:
       Minimum 3 inches — Maximum 3 1/2 inches from Chad depressor post.
   (2) Requirement: Mercury switch electrodes positioned in a horizontal plane.

2. To check:
   Pull front panel forward to provide access to mercury switch.

3. 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.

4. Winder Arm Spring
   Requirement: Minimum 4-1/2 ozs. — Maximum 9 ozs.
   To move tape winder arm up until it strikes the Chad depressor shoe arm.
2.12 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.