"DATASPEED®" TAPE-TO-TAPE SYSTEM

TAPE SENDERS 5A AND 5C

ADJUSTMENTS, LUBRICATION, REMOVAL AND REPLACEMENT OF COMPONENTS

CONTENTS PAGE

1. INTRODUCTION

1.01 This section contains adjustments, lubrication, and removal and replacement of components information for DATASPEED Tape Senders 5A and 5C. It is reissued to correct existing adjustments and change the title. Since this is a general revision, marginal arrows used to indicate changes have been omitted.

1.02 For description, installation, and troubleshooting information on Tape Sender 5C options, refer to Section 592-807-101TC.

2. ADJUSTMENTS

GENERAL

CAUTION: TURN OFF POWER TO UNIT BEFORE MAKING ANY ADJUSTMENT.

2.01 Adjustment steps are in a sequence for a complete equipment readjustment. Parts or assemblies may be removed to simplify adjustments. If there is more than one adjustment for an illustration, follow the sequence (A), (B), (C), etc.

2.02 Unless stated otherwise, left or right, front or rear, and up or down refers to normal operating position (front view). Nuts and screws are to be loosened friction tight, then tightened after adjustment is complete.

2.03 Refer to Section 570-005-800 for a complete list of adjustment tools. These tools are adequate for all adjustments except the universal contact. This adjustment requires a dual trace oscilloscope.

2.04 All spring tension ratings are indications, not exact values. For accurate readings, spring tensions should be measured by spring

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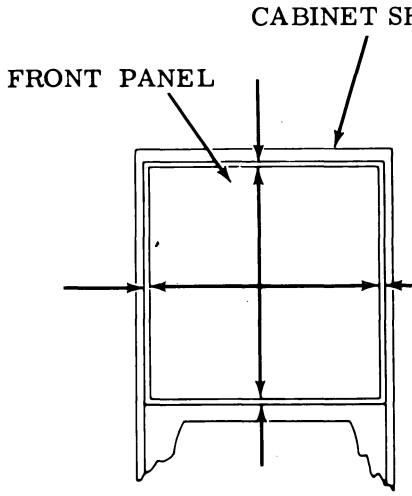
scales in the positions shown. Springs not meeting requirement should be replaced. Read adjustment procedures carefully before making any adjustment. Check movable parts for possible binds before applying power.

CABINET (Tape Sender 5C Only)

2.06 Cabinet Structure



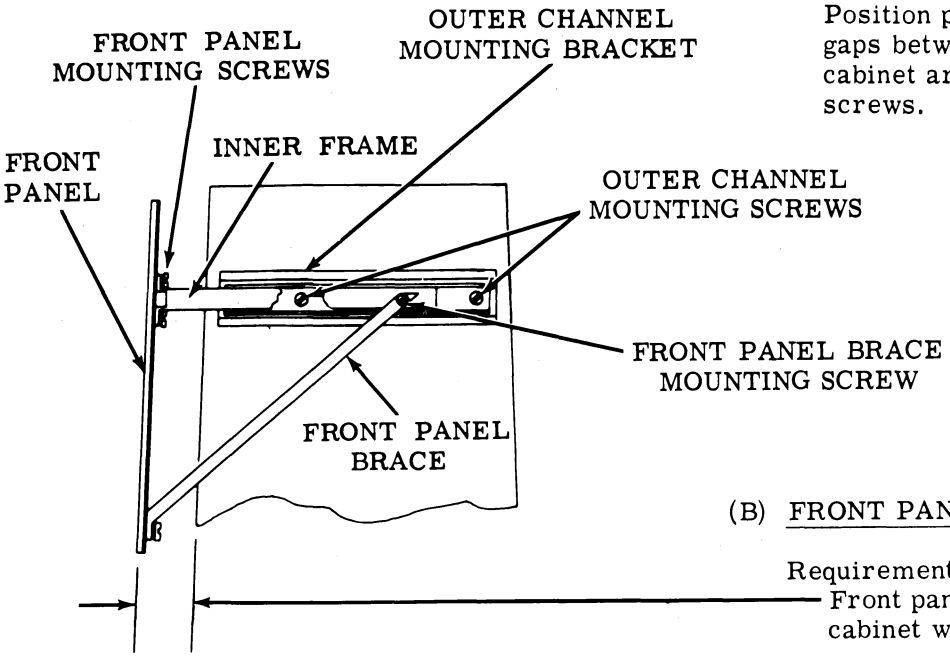
(Front View)

(A) FRONT PANEL GAP

Requirement
Equal gap between front panel and cabinet shell when viewed from front.

To Adjust
(1) Loosen outer channel mounting screws. Position channels up or down until top and bottom gap between front panel and cabinet are about equal. Tighten screws.

(2) Loosen front panel mounting screws. Position panel to left or right until gaps between sides of panel and cabinet are about equal. Tighten screws.



(Left Inside View)

(B) FRONT PANEL SLOPE

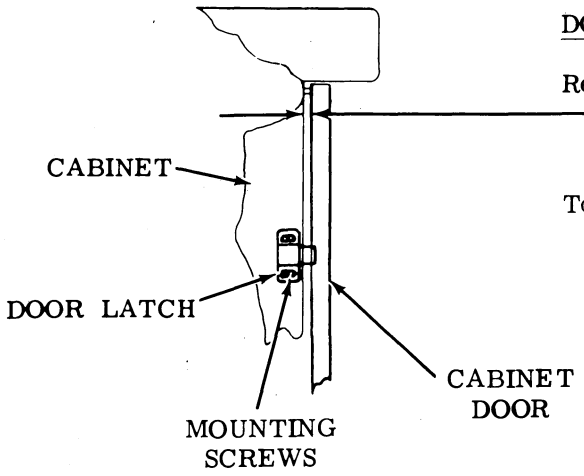
Requirement
Front panel should be parallel to cabinet when viewed from side.

To Adjust
Loosen left and right rear mounting screws of front panel brace. Position front panel to meet requirement. Tighten screws.

TAPE READER

2.05 For tape reader adjustments, refer to Section 592-801-700.

2.07 Cabinet Structure (continued)



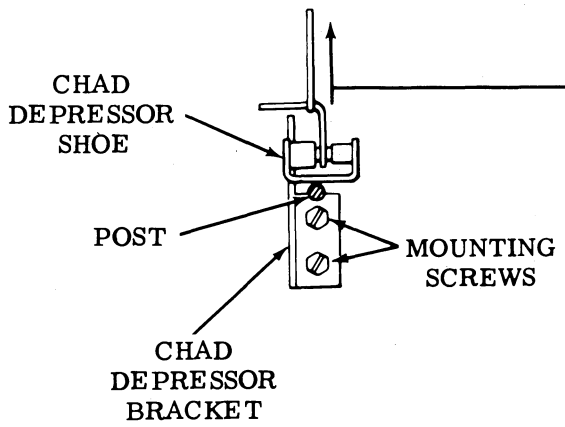
(Left Side View)

DOOR LATCH

Requirement
With cabinet door closed, minimum clearance between cabinet door and door latch.

To Adjust
Loosen mounting screws. Move door latch forward. Close door and apply pressure at latch point to meet requirement. Tighten screws.

2.08 Tape Handling Mechanism



(Side View)

CHAD DEPRESSOR SPRING

Requirement
Min 18 oz---Max 28 oz to lift chad depressor shoe off post.

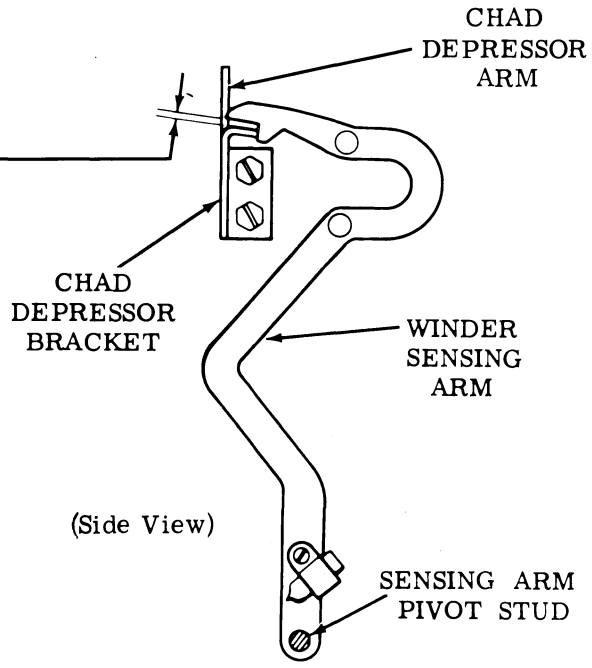
To Adjust
Loosen chad depressor bracket mounting screws. Position bracket up or down to meet requirement. Tighten screws.

2.09 Tape Handling Mechanism (continued)

(A) CHAD DEPRESSOR BRACKET

Requirement
Min some---Max 0.030 inch clearance between sensing arm and depressor bracket when sensing arm is held against depressor bracket. (Hold depressor arm clear of winder arm.)

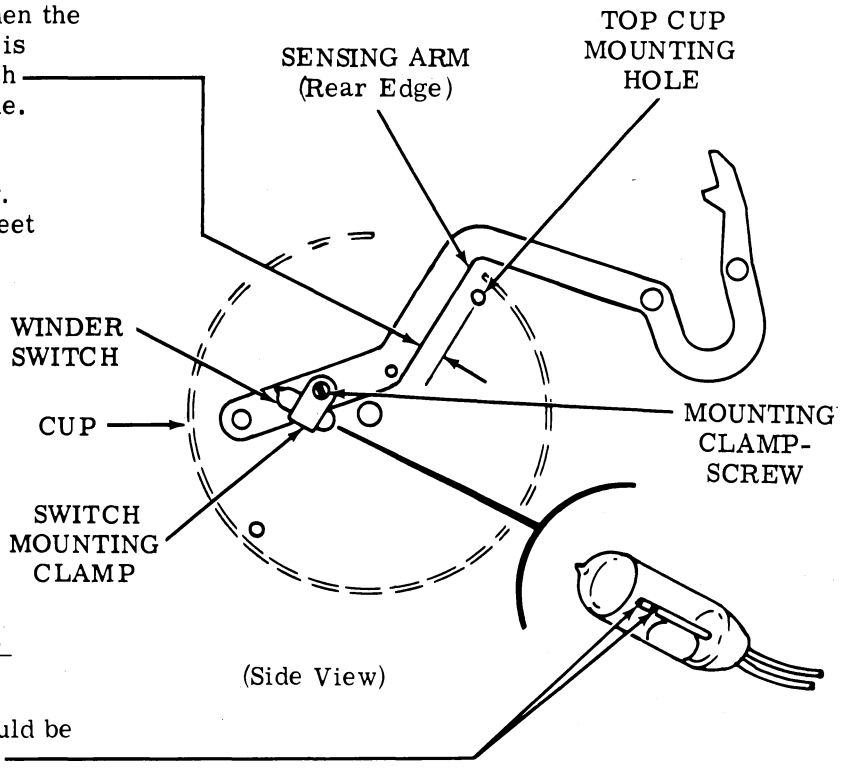
To Adjust
Loosen sensing arm pivot stud. Position stud up or down to meet requirement. Tighten stud.



(C) WINDER SWITCH MOUNTING CLAMP

Requirement
Winder motor should start when the rear edge of the sensing arm is Min 3/8 inch---Max 1/2 inch from the top cup mounting hole.

To Adjust
Loosen mounting clampscrew. Rotate clamp and switch to meet requirement. Tighten screw.



(B) WINDER SWITCH ELECTRODES

Requirement
Winder switch electrodes should be on the same horizontal plane.

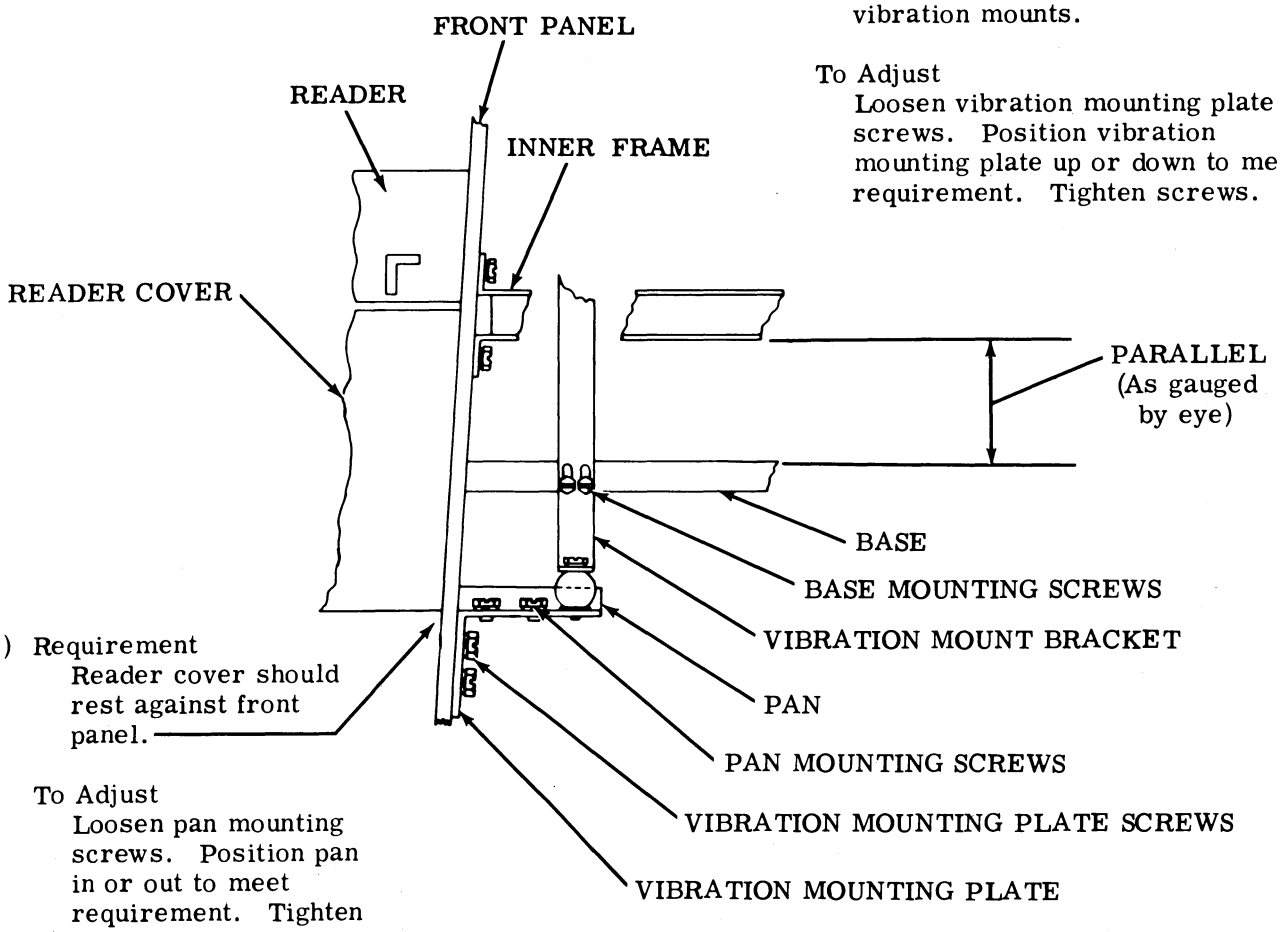
To Adjust
Loosen mounting clampscrew. Rotate switch within its clamp to meet requirement. Tighten screw.

2.10 Cabinet Structure (continued)

HIGH SPEED TAPE READER MOUNTING

(1) Requirement
Reader positioned for approximately equal deflection of vibration mounts.

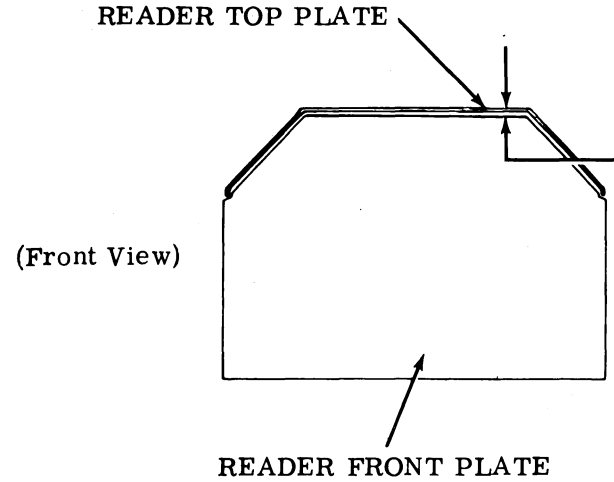
To Adjust
Loosen vibration mounting plate screws. Position vibration mounting plate up or down to meet requirement. Tighten screws.



(3) Requirement
Reader cover should rest against front panel.

To Adjust
Loosen pan mounting screws. Position pan in or out to meet requirement. Tighten screws.

(Left Side View)

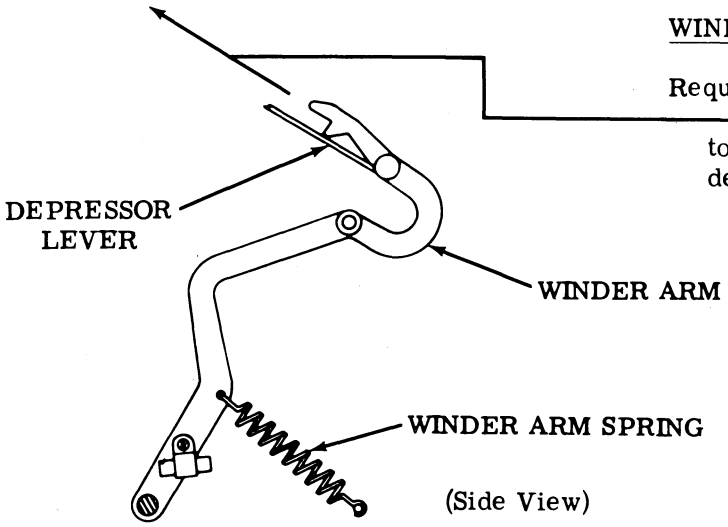


(Front View)

(2) Requirement
Approximately 1/8 inch clearance between reader top plate and reader front plate 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. Tighten screws.

2.11 Tape Handling Mechanism (continued)



WINDER ARM SPRING

Requirement
Min 8 oz---Max 14 oz
to move tape winder arm tip against depressor lever.

UNWINDER ARM SPRING

Requirement
Min 2-1/2 oz---Max 3-1/2 oz
to start unwinder arm spring moving.

To Measure
Hook an 8 oz scale over form of tape guide arm and pull as shown.

TAPE UNWINDER ARM

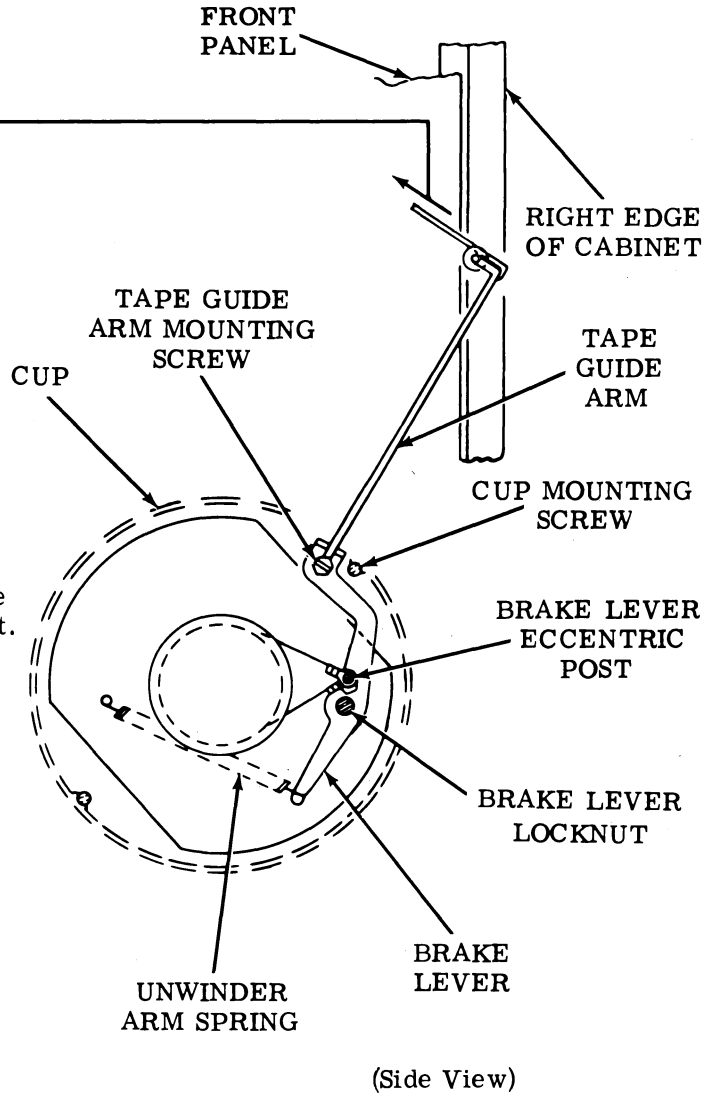
(1) Requirement
Tape guide arm should be stopped by the brake wire, and not cup mounting screw.

To Adjust
Loosen brake lever locknut. Move brake lever eccentric post to meet requirement. Tighten locknut.

(2) Requirement
Tape guide arm should be about even 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.



APPARATUS UNITS

2.12 No adjustments are required at the apparatus unit.

3. LUBRICATION

GENERAL

3.01 The following lubrication symbols are used throughout this section.

O1 - One drop of oil (KS7470)
O3 - Three drops of oil (KS7470)
G - Thin coat of grease (Lubriplate)

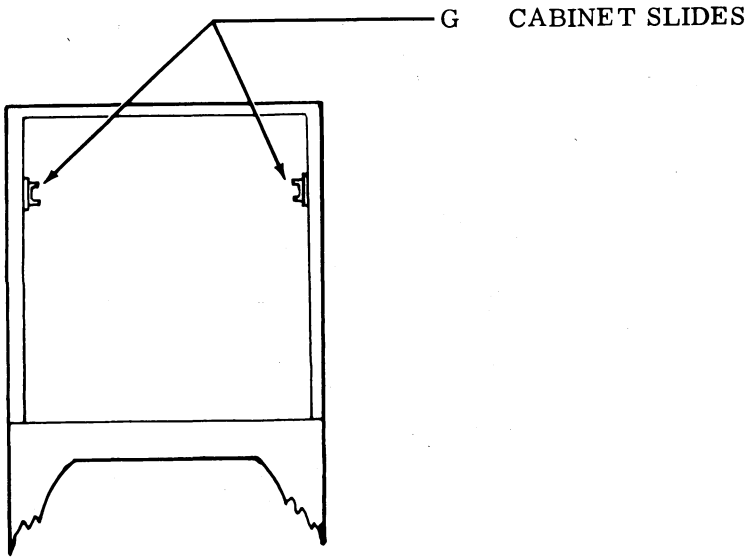
3.02 No lubrication is required at the apparatus units. The reader and cabinet should be lubricated before they are placed in service, again within a few weeks, and thereafter at the intervals specified for the tape reader.

TAPE READER

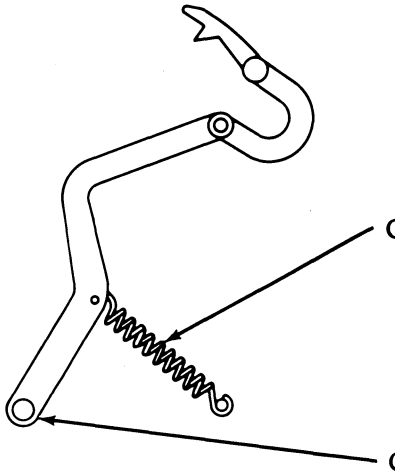
3.03 For lubrication information, refer to Section 592-801-701.

CABINET (Tape Sender 5C Only)

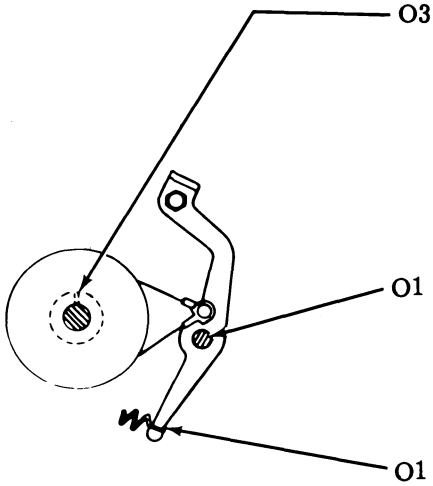
3.04 Cabinet Structure



3.05 Tape Handling Mechanism



O1	Hooks (Each End)	Winder Arm Spring
O1	Pivot	Winder Arm



O3	Hole	Shaft
O1	Pivot	Unwinder Arm
O1	Hooks (Each End)	Unwinder Arm Spring

APPARATUS UNITS

3.06 No lubrication needed.

4. REMOVAL AND REPLACEMENT OF COMPONENTS

4.01 Removal and replacement of components for Tape Senders 5A and 5C is straightforward. No instructions are needed. For removal and replacement of components for the tape reader, refer to Section 592-801-702. Check adjustments after replacement of components.