

REPLACING PAGE ADDENDUM

Filing Instructions:

1. REMOVE FROM THE SECTION THE PAGES NUMBERED THE SAME AS THOSE ATTACHED TO THIS PINK SHEET.
2. INSERT THE ATTACHED PAGES INTO THE SECTION IN THEIR PLACE.
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SERIES 2540 DEPENDENT BUFFER SETS AND

SERIES 2541 BUFFER/INTERFACE SETS

MECHANICAL ADJUSTMENTS, LUBRICATION AND

REMOVAL AND REPLACEMENT OF COMPONENTS

1. GENERAL

- 1.001 This addendum, which supplements Section 578-140-700, Issue 2, is issued to change the title of the section and add information pertaining to the buffer/interface set.
- 1.002 Insert the attached pages in accordance with the filing instructions above. Arrows in the margins indicate changes and additions.

Attached:

Page 1 dated May 1973, revised

Page 2 dated May 1973, revised

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SERIES 2540 DEPENDENT BUFFER SETS AND
SERIES 2541 BUFFER/INTERFACE SETS
MECHANICAL ADJUSTMENTS, LUBRICATION AND
REMOVAL AND REPLACEMENT OF COMPONENTS

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1. GENERAL

1.01 This section provides the mechanical adjustments, lubrication, and removal and replacement of components for the 2540 Buffer and 2541 Buffer/Interface Sets. Issue 1 of this section was a limited printing edition, and was not generally available nor distributed on a system wide basis. This reissue represents the first general distribution of this section.

1.02 Some lubrication and mechanical adjustment procedures in this section require removing an assembly part or component with no further disassembly required. Read all adjustment and lubrication notes thoroughly before performing the necessary procedure.

1.03 Use maintenance pad TP124828 to protect furniture or floor coverings from oil, grease and dirt.

Note: Ordering information for lubricants and a complete list of maintenance tools can be found in Section 570-005-800.

1.04 Unless specifically stated otherwise, make screws or nuts friction tight to make an adjustment. Tighten them securely as soon as the adjustment has been made. If parts are removed to make an adjustment and subsequently replaced, check all adjustments which may have been affected by such removal and replacement.

1.05 Lubricate the cabinet and specified components before placing the unit into service or just prior to putting it in storage. Thereafter, the recommended lubrication interval is between six months to one year.

1.06 The following symbols are used in the lubrication instructions to indicate the type and amount of lubricant.

- O1 – Apply one drop of KS7470 oil
- G – Apply a thin coat of KS7471 grease

1.07 Oil should be applied by means of an oiler. Overlubrication which would allow oil to drip on other parts should be avoided.

CAUTION: SPECIAL CARE SHOULD BE TAKEN TO PREVENT ANY LUBRICANT FROM GETTING BETWEEN ELECTRICAL CONTACTS.

1.08 Clean the cabinet after lubricating. Remove excess oil and/or grease which may have run onto surfaces which do not require lubrication.

CAUTION: REMOVE ALL POWER FROM THE SET BEFORE ATTEMPTING ANY ADJUSTMENTS, LUBRICATION, OR REMOVAL AND REPLACEMENT OF COMPONENTS.

2. MECHANICAL ADJUSTMENTS

2.01 The following are the mechanical adjustments for the 2540 Buffer or 2541 Buffer/Interface Sets.

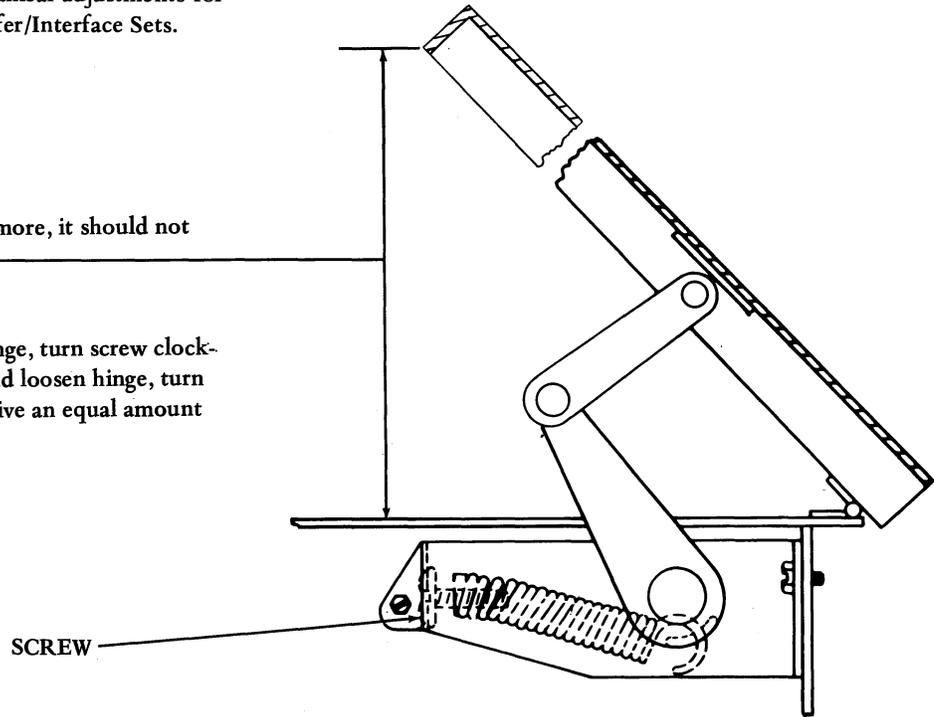
COVER COUNTERBALANCE

Requirement

When cover is raised 10 inches or more, it should not fall by its own weight.

To Adjust

To increase friction and stiffen hinge, turn screw clockwise (CW). To decrease friction and loosen hinge, turn screw counterclockwise (CCW). Give an equal amount of turns to each counterbalance.



(Side View)

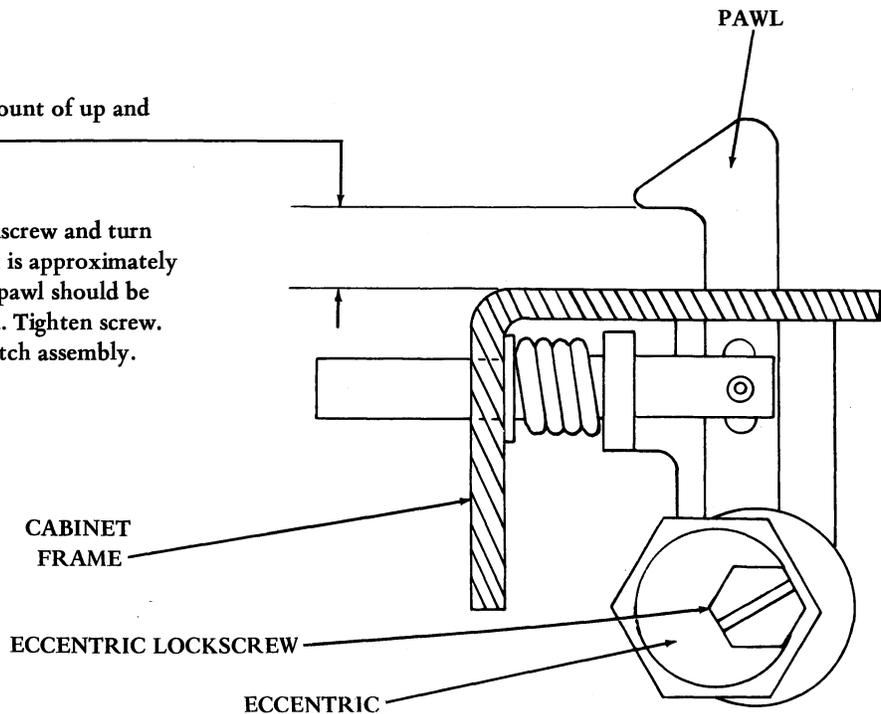
COVER LATCH

Requirement

The cover should have a minimum amount of up and down travel after it has been closed.

To Adjust

Raise the cover. Loosen eccentric lock screw and turn eccentric with a wrench until the pawl is approximately 1/4-inch from the cabinet frame. The pawl should be vertical after this clearance is obtained. Tighten screw. Repeat the adjustment on the other latch assembly.



(Side View)

2.02 Mechanical Adjustments (continued)

CONSTANT FORCE SPRINGS

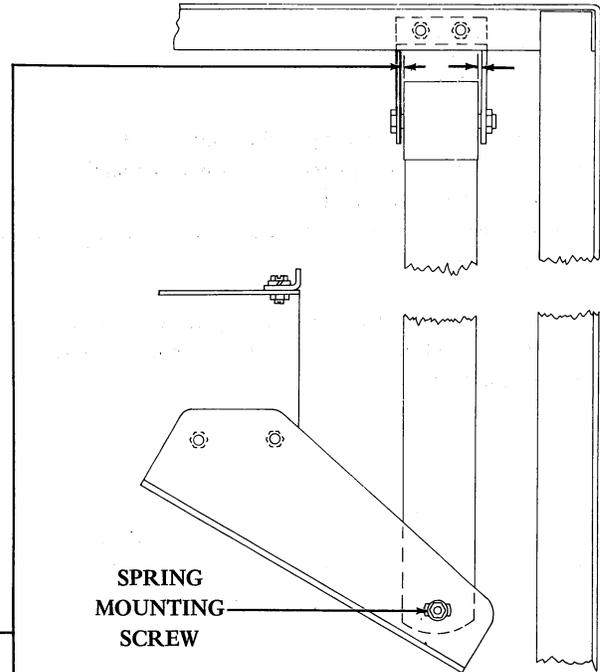
Requirement

The constant force springs, when winding up on their rollers, should be free of binds against their mounting brackets.

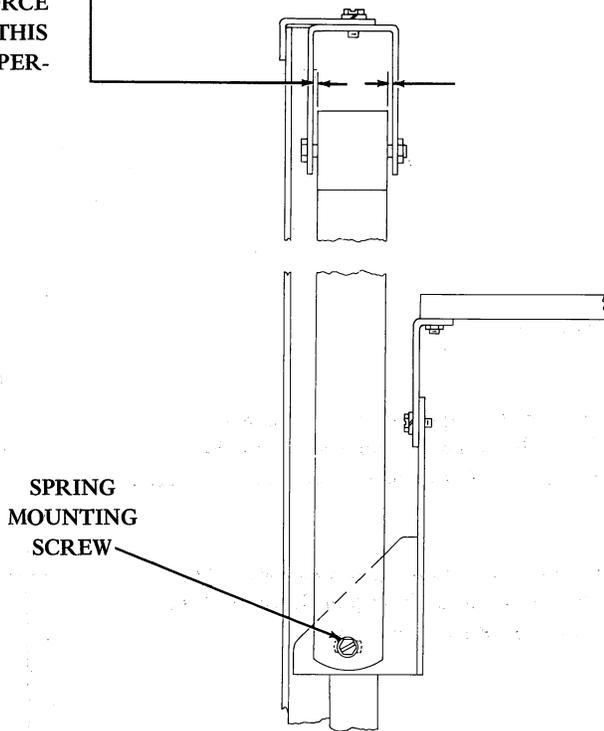
To Adjust

Loosen spring mounting screw and position spring to meet the requirement.

CAUTION: DO NOT REMOVE THE SPRING MOUNTING SCREWS. IF REMOVED, THE CONSTANT FORCE SPRINGS WILL RETRACT WITH GREAT FORCE. THIS MAY CAUSE DAMAGE TO THE EQUIPMENT OR PERSONAL INJURY.



(Side View)



(Rear View)

2.03 Mechanical Adjustments (continued)

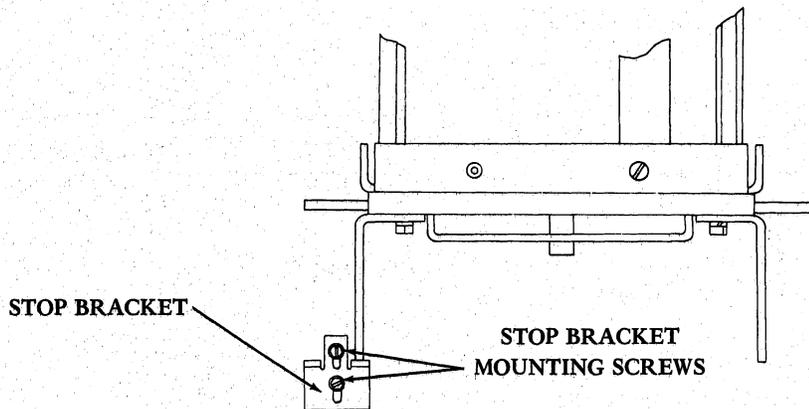
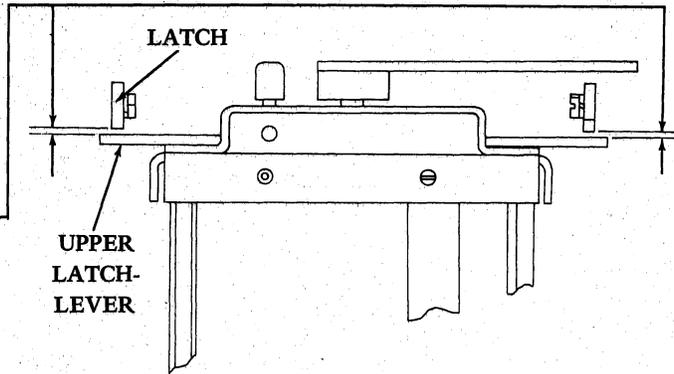
MODULE DOWNSTOP

Requirement

With the module in its lower position and held down against the stop bracket, clearance between the latch and upper latchlever should be
Min some—Max 0.090 inch.

To Adjust

Loosen the two stop bracket mounting screws friction tight. Adjust stop bracket until the requirement is met. Retighten the screws.



(Front View)

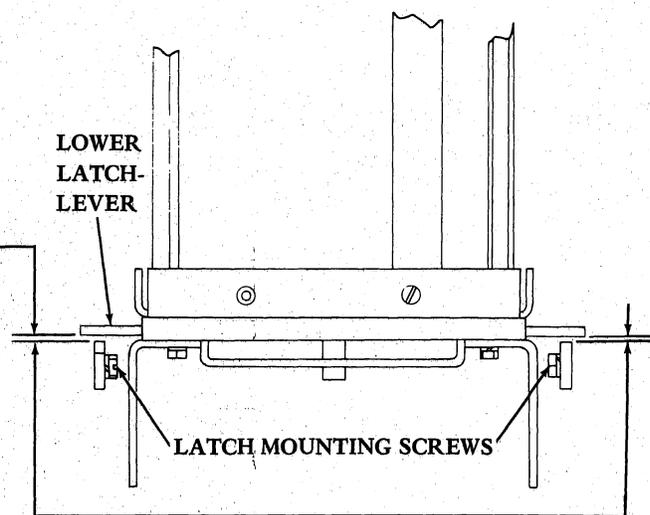
MODULE LATCH

Requirement

With the module in its upper position, clearance between the latch and lower latchlever should be
Min some—Max 0.030 inch.

To Adjust

Loosen the four latch mounting screws, two each side, friction tight. Move the latches up or down until the requirement is met. Retighten the screws.



(Front View)

2.04 Mechanical Adjustments (continued)

MODULE MOUNTING

Requirement
There should be equal clearance between the module levers and the vertical slides.

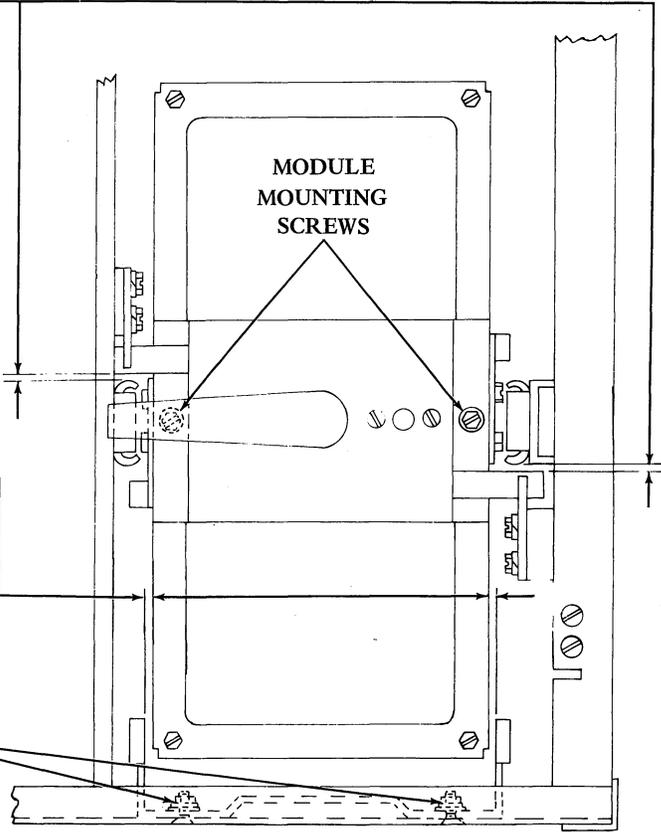
To Adjust
Loosen the module mounting screws friction tight. Position the module until the requirement is met. Retighten the screws.

MODULE GUIDE

Requirement
There should be equal clearance on both sides between the module and the module mounting bracket.

To Adjust
Loosen the module guide bracket mounting screws friction tight. Position the guide bracket until the requirement is met. Retighten the screws.

MODULE GUIDE BRACKET MOUNTING SCREWS



(Top View)

2.05 Mechanical Adjustments (continued)

SWITCH CLUSTER

Requirement

Switch tops should not bind with the switch plate.

To Adjust

Remove switch cover. Remove switch assembly from cabinet top. Loosen the switch cluster mounting screws and position cluster until requirement is met. Replace switch assembly and switch cover.

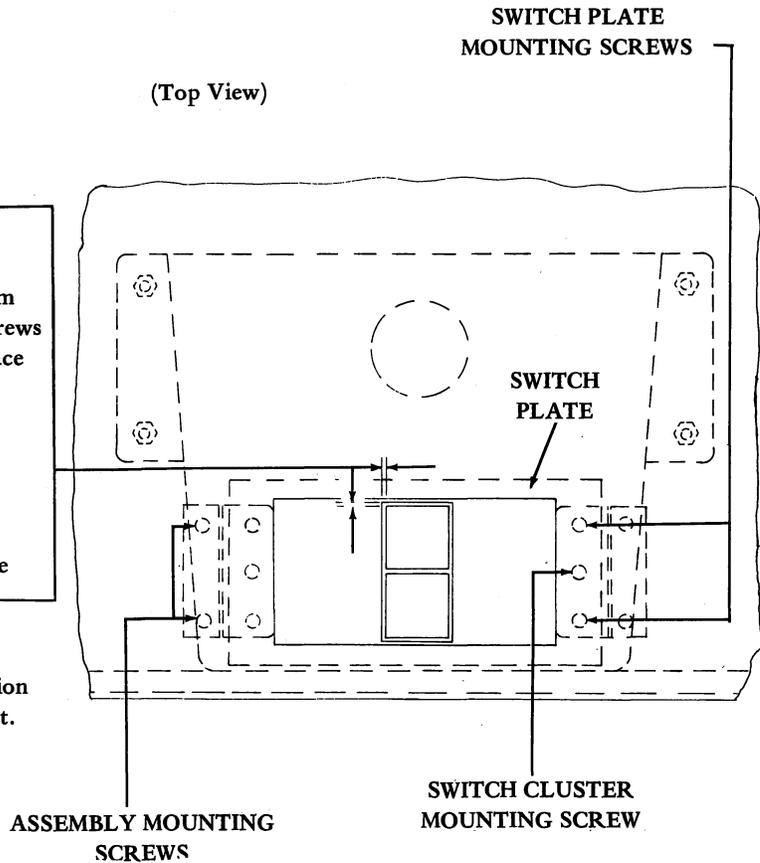
SWITCH PLATE

Requirement

The switches must be centered in the opening of the cover with no binds.

To Adjust

Loosen the four switch plate mounting screws friction tight. Position the plate until the requirement is met. Retighten the screws.



2.06 Mechanical Adjustments (continued)

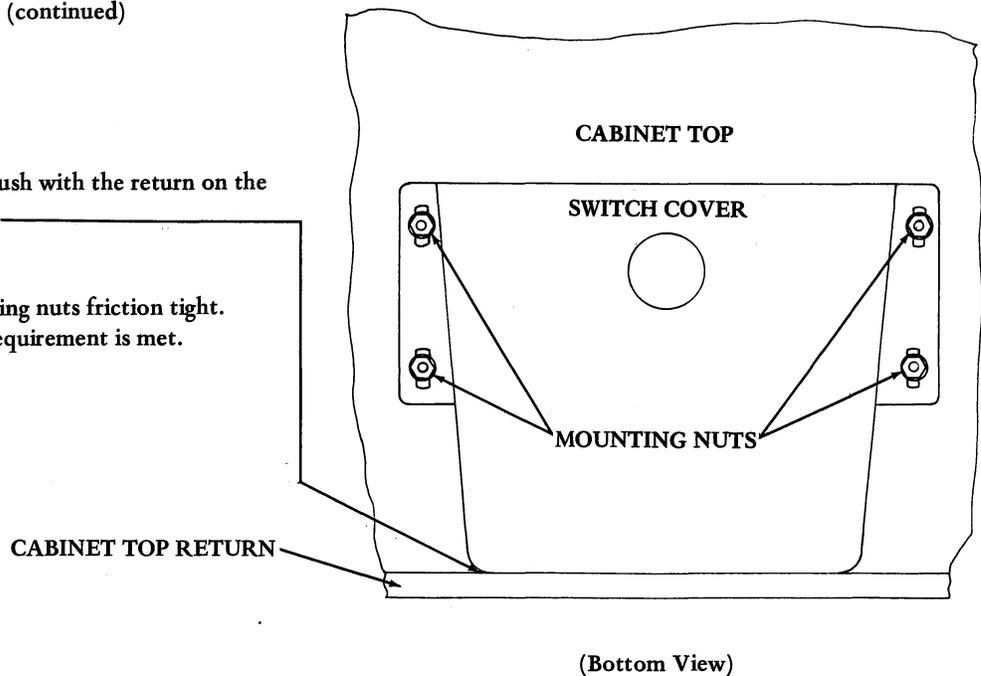
SWITCH COVER

Requirement

The switch cover should be flush with the return on the underside of the cabinet top.

To Adjust

Loosen the four cover mounting nuts friction tight. Position the cover until the requirement is met. Retighten the nuts.

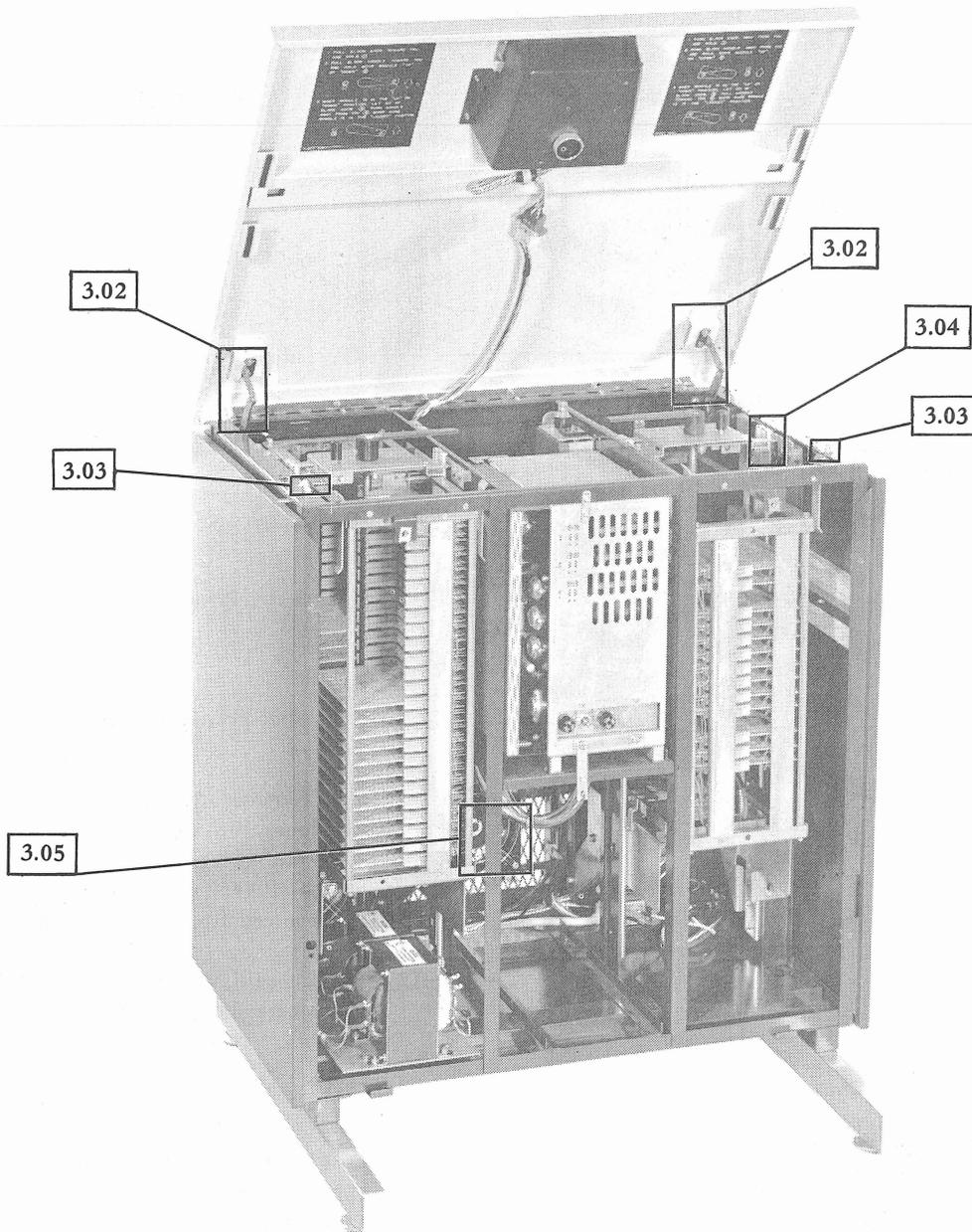


3. LUBRICATION

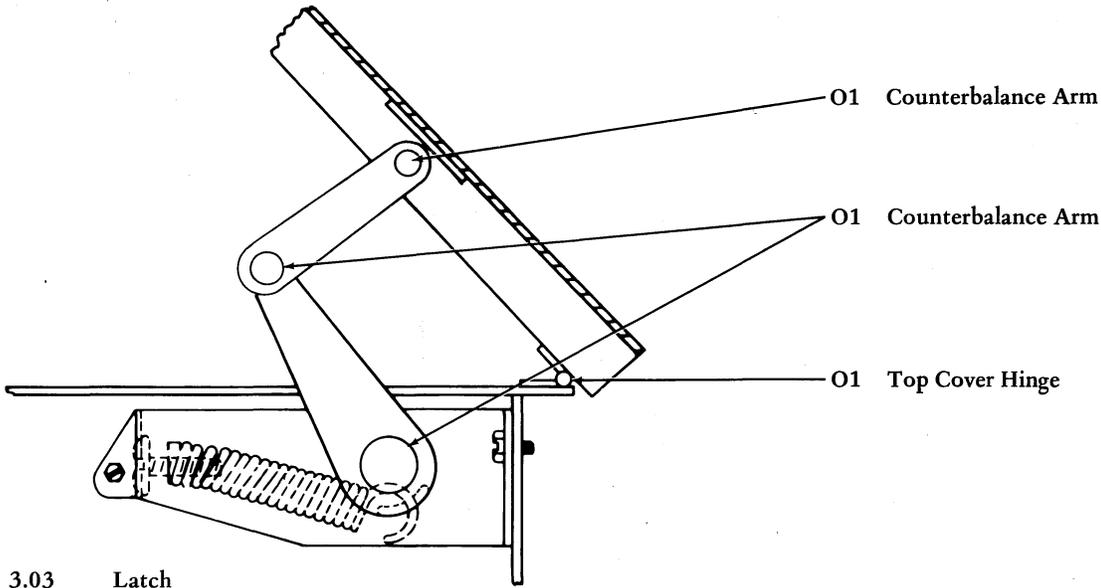
3.01 Lubricants cannot be tolerated at points or on surfaces other than those specified, particularly on those surfaces which contact electrical terminals or terminal connections. Lubrication should be thorough but not excessive. Specific points to receive lubrication are indicated by

line drawings and descriptive text. The symbols used in the text indicate the following:

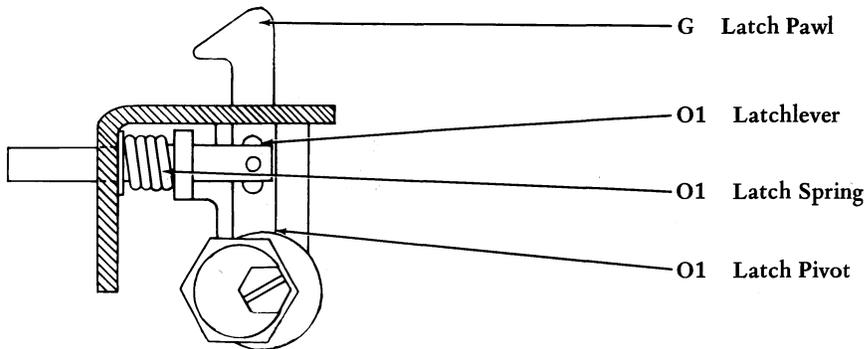
| <u>SYMBOL</u> | <u>MEANING</u> |
|---------------|---------------------------|
| O1 | Apply 1 drop of oil |
| G | Apply thin coat of grease |



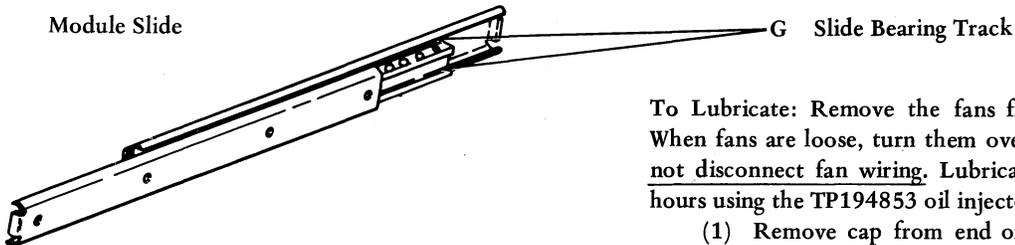
3.02 Cover Hinge And Counterbalance Arm



3.03 Latch

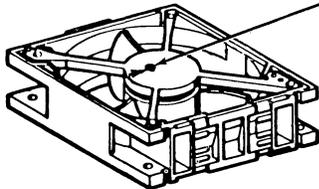


3.04 Module Slide



To Lubricate: Remove the fans from enclosure mounting. When fans are loose, turn them over to expose gold seal. Do not disconnect fan wiring. Lubricate the fans every 10,000 hours using the TP194853 oil injector.

3.05 Ventilation Fans



- (1) Remove cap from end of oil injector.
- (2) Place needle at the center of the circle marked on the gold label.

Note: Newer fans may not have gold seal.

- (3) Position the needle at an angle of approximately 45° to the surface of the label.
- (4) Pierce the label and the concealed self-sealing rubber cap located under the label.
- (5) Depress the oil injector plunger slowly to release approximately 1/8-inch of oil.

Note: Four fans are located in the buffer set.

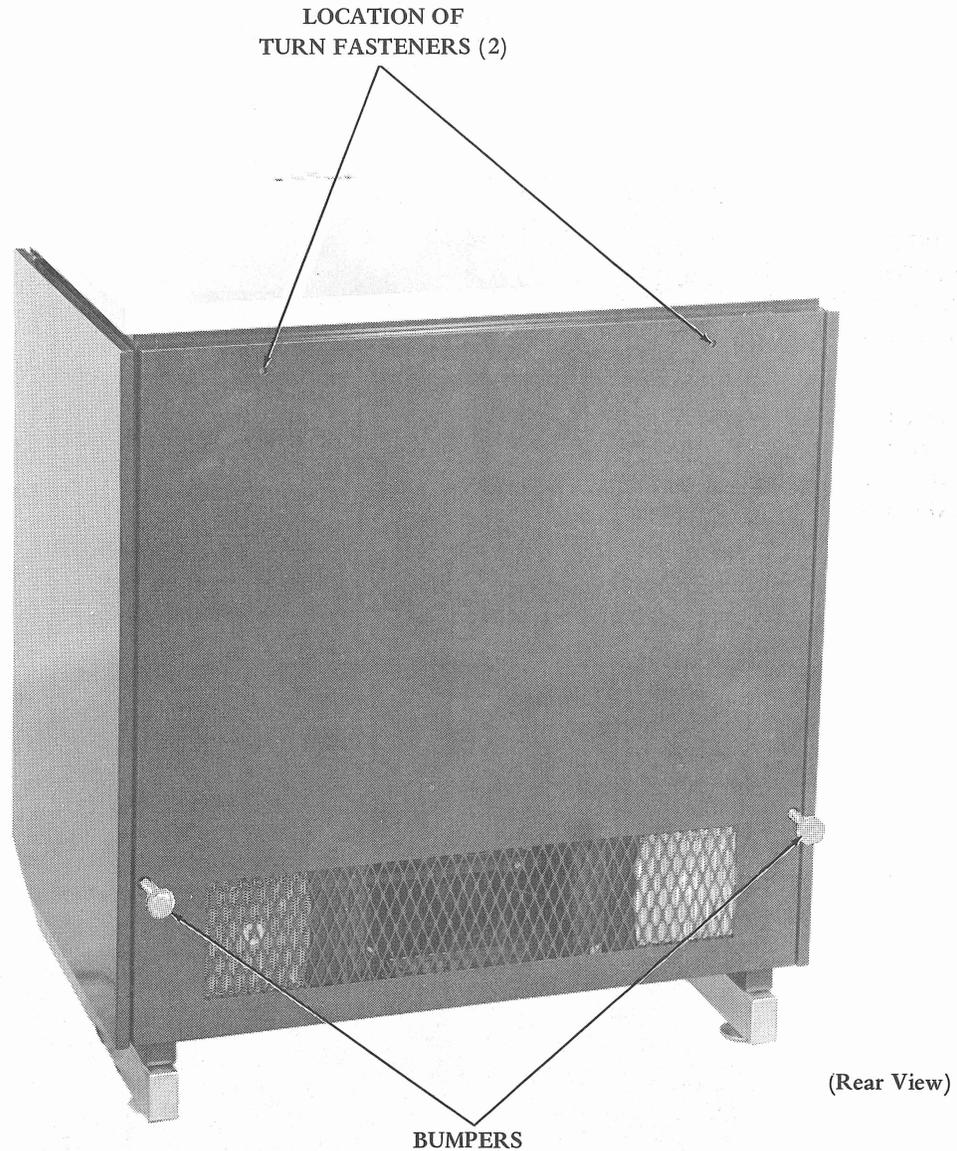


Figure 1 - Buffer Set

4. REMOVAL AND REPLACEMENT OF COMPONENTS

4.01 The following are the procedures for removing the principle components of the buffer set. If more detailed information is required, refer to the appropriate illustrated parts section. The numbers of the parts given in these instructions will help in determining their location.

CAUTION: BECAUSE OF THE COMPLEXITY OF THE EQUIPMENT, IT IS STRONGLY RECOMMENDED THAT THE REMOVAL AND REPLACEMENT PROCEDURES BE READ THROUGH COMPLETELY BEFORE ATTEMPTING ANY WORK ON THE BUFFER UNIT.

PANELS

4.02 There are four panels on the buffer set. In order to remove them correctly, proceed as follows:

- (a) Loosen the TP330306 bumpers from the rear panel (Figure 1). Using a screwdriver, turn the two TP333880 1/4-turn fasteners counterclockwise. The rear panel can now be removed from the buffer unit.
- (b) Turn the two TP333880 1/4-turn fasteners counterclockwise (Figure 2). The front panel can now be removed.

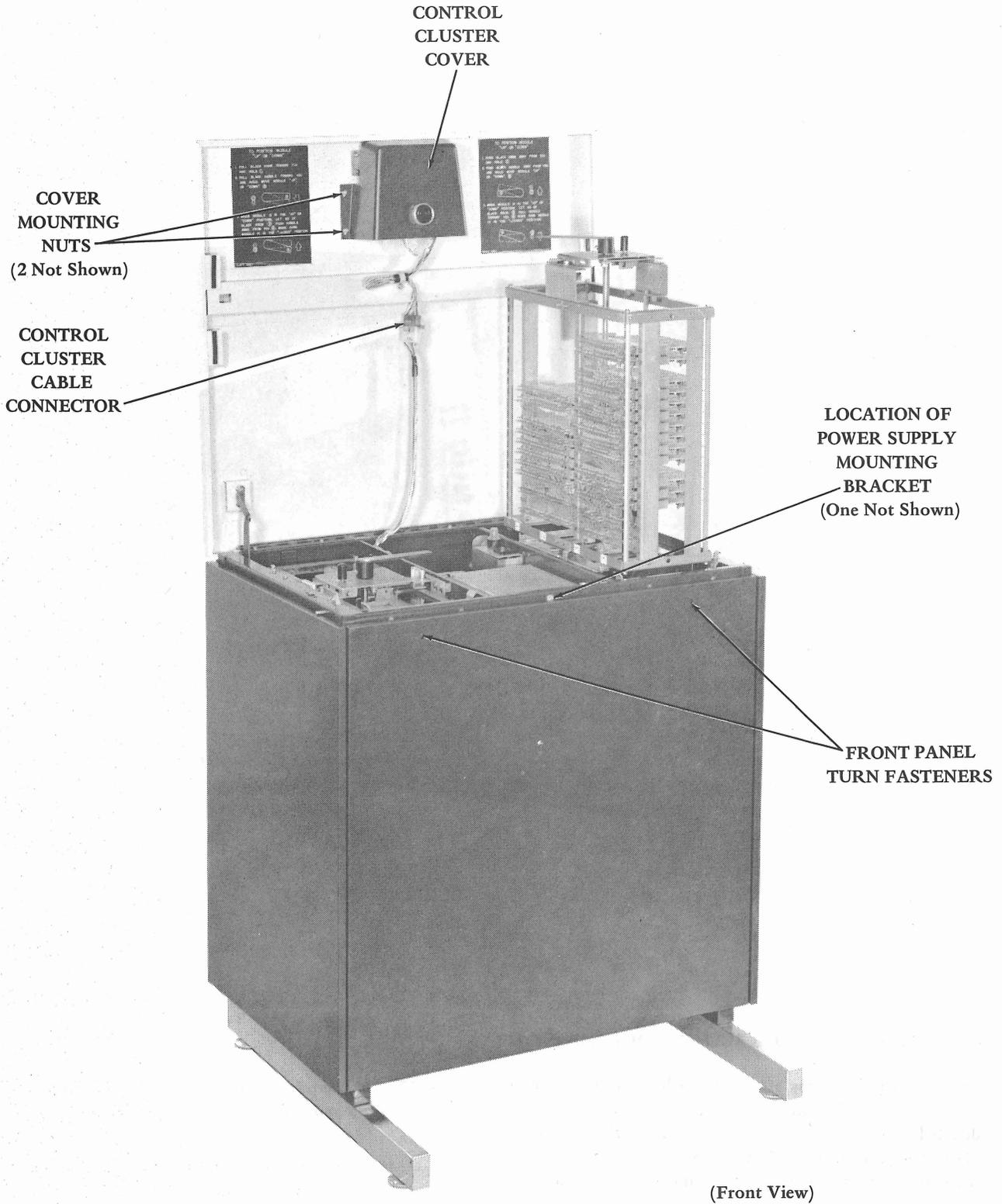


Figure 2 - Buffer Set

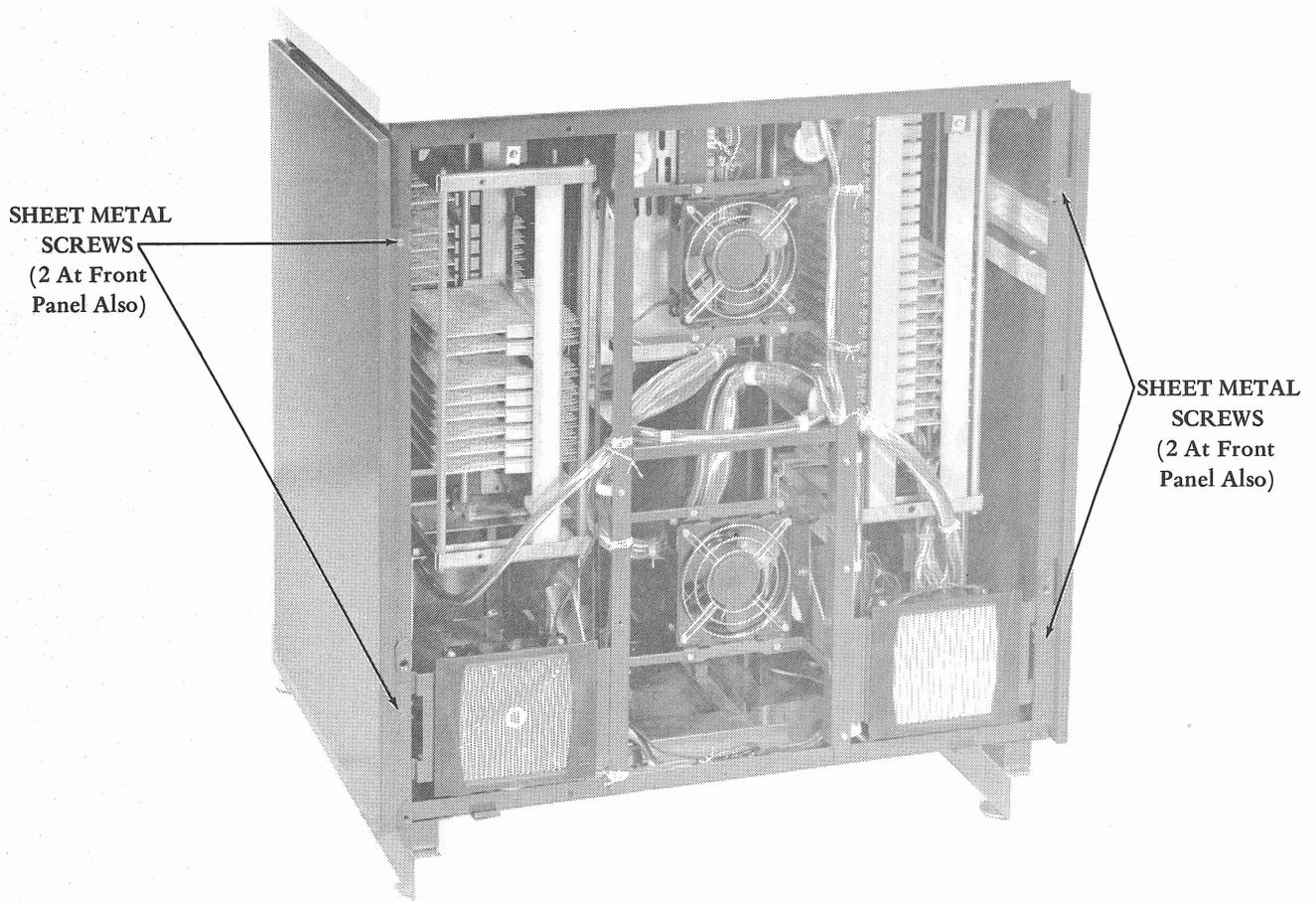


Figure 3 - Buffer Set with Rear Panel Removed

(c) Remove the four TP148756 sheet metal screws that hold one of the two side panels in place (Figure 3). Remove the remaining side panel by the same method.

(d) To replace the panels, reverse the procedure used to remove them.

MODULES

4.03 To remove either one of the two modules in the buffer set, proceed as follows:

(a) Loosen the two screws that hold each cable connector in place (Figure 4), and remove the connectors.

(b) Remove the two screws and flat washers that secure the module mounting bracket to the module shelf (Figures 4 and 5).

(c) The module can now be removed.

(d) To replace the module, reverse the procedure used to remove it.

MODULE MOUNTING HARDWARE

Note: When a new module is placed in the buffer set, the mounting hardware on the old module must be removed and placed on the new module.

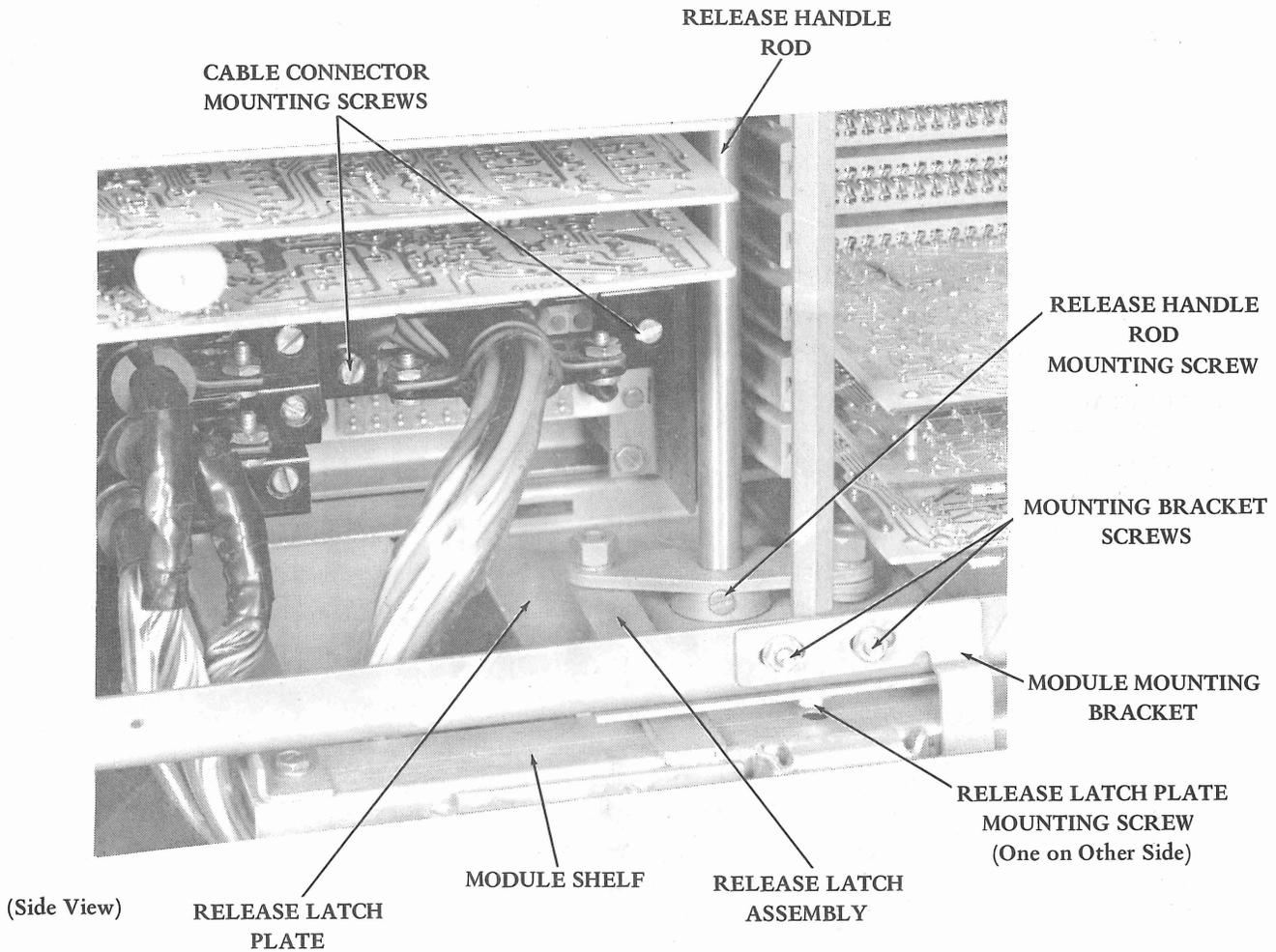


Figure 4 - Module Mounting Hardware

4.04 To remove the module mounting hardware, proceed as follows:

- (a) Remove the module according to the instructions in 2.02.
- (b) Remove the nut, lockwasher, and screw that secures the release handle rod to the lower latch assembly (Figure 4).
- (c) Remove a screw, spacer, lockwasher, and flat washer from each side of the module release handle mounting bracket (Figure 6). Remove the release handle bracket assembly.
- (d) Remove the screw, lockwasher, and flat washer that secure each side of the release latch plate to the module (Figure 4). Remove the plate.
- (e) Remove the screws, flat washers, lockwashers, and nuts from the two module mounting brackets (Figure 4). Remove the brackets from the module.

- (f) The hardware can be replaced on the old module or mounted on a new module by reversing the procedure used to remove it.

POWER SUPPLY

4.05 To remove the power supply from the buffer set, proceed as follows:

- (a) Remove the screw, lockwasher, and flat washer that secure each of the power supply mounting brackets to the buffer unit frame (Figure 2).
- (b) Carefully, slide the power supply out of the cabinet to a point where the cables can be removed.
- (c) Remove the cables from the power supply. The power supply can now be removed from the cabinet.
- (d) To replace the power supply, reverse the procedure used to remove it.

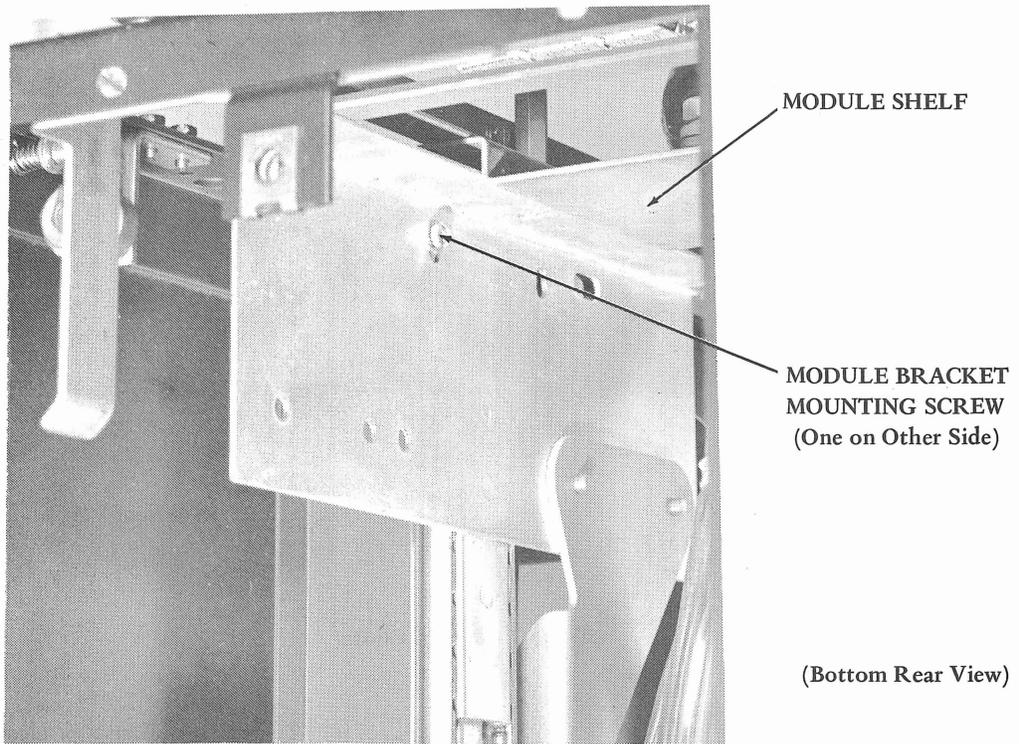


Figure 5 - Module Mounting Shelf

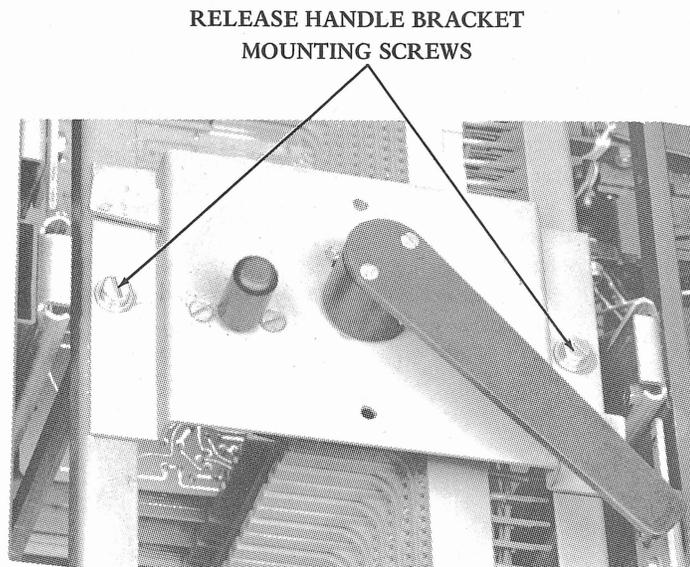


Figure 6 - Module Release Handle

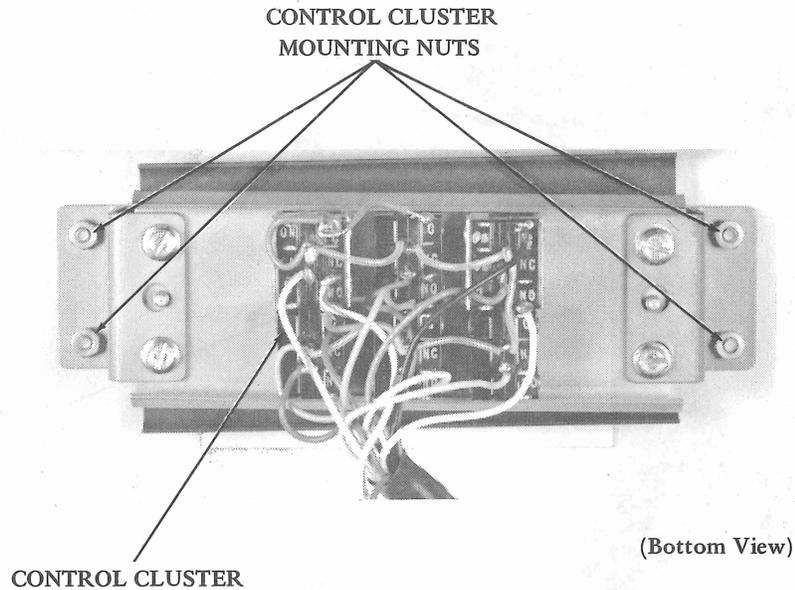


Figure 7 - Control Cluster

CONTROL CLUSTER

4.06 To remove the control cluster (Figure 7) from the cabinet top, proceed as follows:

- (a) Separate the cable connector between the control cluster and the buffer module (Figure 2).
- (b) Remove the four nuts, lockwashers, and flat washers that secure the protective cover to the underside of the cabinet top (Figure 2).
- (c) Remove the connector between the control cluster and the audible alarm inside the cover.
- (d) Remove the four nuts, lockwashers, and flat washers that secure the control cluster to the underside of the cabinet cover. The control cluster can now be removed.

- (e) To replace the control cluster, reverse the procedure used to remove it.

VENTILATION FANS

4.07 To remove any of the four ventilation fans, proceed as follows:

- (a) Remove the snap on the protective grill (Figure 2). The grill is used only on the two lower fans.
- (b) Disconnect the power cord that is plugged into the fan.
- (c) Remove the four mounting screws that secure the fan to the frame. The fan can now be removed.
- (d) To replace the fan, reverse the procedure used to remove it.