RACKMOUNT CONVERSION

For the following TEKTRONIX® Monitors

Type 603	Storage Monitors	All Serial Numbers
Type 603A	Storage Monitors	All Serial Numbers
Type 604	Display Monitors	All Serial Numbers
Type 604A	Display Monitors	All Serial Numbers
Type 605	Variable Persistance Storage Monitors	All Serial Numbers
Type 606	Display Mnitors	All Serial Numbers
Type 606A	High Resolution Monitors	All Serial Numbers
Type 606B	X-Y Monitors	All Serial Numbers
Type 607	Variable Persistance Display Monitors	All Serial Numbers
Type 607A	Variable Persistance Display Monitors	All Serial Numbers
Type 608	High Brightness Monitors	All Serial Numbers
Type 620	X-Y Monitors	All Serial Numbers
Type 624	High Brightness Monitors	All Serial Numbers
Type 634	Raster Scan Monitors	All Serial Numbers

This Modification Kit provides parts and instructions necessary for rackmounting any of the above listed Storage, Display, Raster Scan or X-Y Monitors with a 1/2 rack width frame assembly.

The monitor may be mounted on the right or left side of the frame assembly.

The above listed Display, Storage, Raster Scan or X-Y Monitors are designed for mounting in a standard 19 inch wide rack that has Universal, EIA, RETMA, or Western Electric hole spacing.

11-26-79
Supersedes: 4-13-78

PARTS INCLUDED IN MODIFICATION KIT:

Quantity	Part Number	Description
(1 ea)		Assembly, frame consisting of:
2 ea	211-0065-00	Screw, 4-40 x .188
1 ea	333-1516-00	Panel, front, blank
1 ea	426-0842-00	Frame assembly, 1/2 rack width
6 ea	210-0858-00	Washer, #8 flat
2 ea	210-0949-00	Washer, .141 ID x .500 OD x .062
2 ea	211-0018-00	Screw, 4-40 x .875
4 ea	211-0502-00	Screw, 6-32 x .188 100° CSK
6 ea	212-0004-00	Screw, 8-32 x .312
4 ea	212-0040-00	Screw, 8-32 x .375 100° CSK
2 ea	220-0634-00	Nut, rectangular
1 ea	351-0104-00	Track, slide-out section
1 ea	351-0195-01	Track, slide stationary and intermediate
2 ea	361-0451-00	Plate, spacer
1 ea	390-0271-00	Cabinet, left side
1 ea	390-0242-00	Cabinet, top
1 ea	390-0245-00	Cabinet, right side
2 ea	390-0281-00	Cabinet, bottom
2 ea	407-0899-00	Bracket rackmounting

INSTRUCTIONS

( ) 1. Remove the cabinet sides and the bottom cover from the monitor.

( ) 2. Remove the handle from the monitor.

( ) 3. Install a rackmounting bracket on the side of the monitor corresponding to its intended position in the rack, i.e. right side for right hand mount etc. and install a rackmounting bracket on the opposite side of the frame assembly using the 8-32 x .375 100° CSK screws.

( ) 4. Install the slide-out section of the chassis tracks, on the same sides as the rackmounting brackets, using the 8-32 x .188 screws and the #8 flatwashers.

( ) 5. Fasten the monitor and the frame assembly together using the spacer plates, the .500 inch flat washers, the 4-40 x 7/8 inch screws, and the 4-40 rectangular nuts.

( ) 6. Install the two bottom covers. (Use 6-32 x .188 screws.)

( ) 7. Install the two bottom covers. (Use 6-32 x .188 screws.)

( ) 8. Any of the Storage or Display Monitors listed on page one and a 1/2 rack width frame assembly will fit most 19 inch wide racks whose front and rear holes conform to Universal hole spacing. The slide-out tracks easily mount to the cabinet rack front and rear vertical mounting rails if the inside distance between the front and rear rails is within 10-9/16 inches to 24-3/8 inches. If the inside distance exceeds 24-3/8 inches, some means of support is required for the rear ends of the slide-out tracks (for example, make extensions for the rear mounting brackets).

At least 5-1/4 inches of vertical space is required to mount this instrument in a rack. If other instruments are operated in the rack, an additional 1/4 inch is required both above and below the monitors to allow space for proper cirulation of cooling air.

A standard 19 inch wide rack may be used. The dimension of opening between the front rails must be at least 17-5/8 inches for a cabinet in which the front lip of the stationary section is mounted behind an untapped front rail as shown in Fig. 1A. If the front rails are tapped, and the stationary section is mounted in front of the front rail as shown in Fig. 1B, the dimension between the front rails should be at least 17-3/4 inches. These dimensions allow room on each side of the instrument for the slide-out tracks to operate so the instrument can move freely in and out of the track.

For proper circulation of cooling air, allow at least two inches clearance behind the rear of the units and any enclosure on the rack. If it is sometimes necessary or desirable to operate the units in the fully extended position, use cables that are long enough to reach from the signal source to the monitor and 1/2 rack width frame assembly.

The slide-out tracks for the units consist of two assemblies, one for the left side of the monitor (or frame assembly) and one for the right side of the other unit. Each assembly consists of three sections. A stationary section attaches to the front and rear rails of the rack, the chassis section attaches to the units, and the intermediate section fits between the other two sections to allow the instrument to fully extend out of the rack.

The small hardware components included with the slide-out track assemblies are used to mount the tracks to the vertical rack rails having this compatibility:

1. Front and rear rail holes must be large enought to allow inserting a 10-32 screw through the rail mounting hole if the rails are untapped (see Fig. 1A).

2. Or, front and rear rail holes must be tapped to accept a 10-32 screw if Fig. 1B mounting method is used. Note in Fig. 1B right illustration that a #10 washer (not supplied) may be added to provide increased bearing surface for the slide-out track stationary section front flange.

3. Front and rear rail holes must be located on Universal spacing; that is, the sequence for the hole spacing is 1/2 inch, 5/8 inch, 5/8 inch, 1/2 inch, etc.

Because of the above compatibility, there will be some small parts left over. The stationary and intermediate sections for both sides of the rack are shipped as a matched set and should not be separated. The matched sets of both sides including hardware are marked 351-0195-00 on the package. To identify the assemblies, note that the automatic latch and intermediate section stop is located near the top of the matched set.

Use the following procedure to mount both sides. See Fig. 1 for installation details.

1. To mount the instrument directly above or below another instrument in a cabinet rack, select the appropriate holes in the front rack rails for the stationary sections, using Fig. 2 as a guide.

2. Mount the stationary slide-out track sections to the front rack rails using either of these methods:

   a) If the front flanges of the stationary sections are to be mounted behind the front rails (rails are countersunk or not tapped), mount the stationary sections as shown in Fig. 1A right illustration.

   b) If the front flanges of the stationary sections are to be mounted in front of the front rails (rails are tapped for 10-32 screws), mount the stationary sections as shown in Fig. 1B right illustration. To provide increased bearing surface for the screw head to securely fasten the front flange to the rail, a flat washer (not supplied) may be added under the screw head. However, consider that when this mounting method is used, the front panel will not fit flush against the front rail because of the stationary section and washer thickness. If a flush fit is preferred, method 2 (a) should be used.

3. Mount the stationary slide-out sections to the rear rack rails using either of these methods:

   a) If the rear rack rail holes are not tapped to accept 10-32 machine screws, mount the left stationary section with hardware provided as shown in the left or center illustration of Fig. 1A. Note that the rear mounting bracket can be installed either way so the slide-out tracks will fit a deep or shallow cabinet rack. Use Fig. 1A as a guide for mounting the right stationary section. Make sure the stationary sections are horizontally aligned so they are level and parallel with each other.

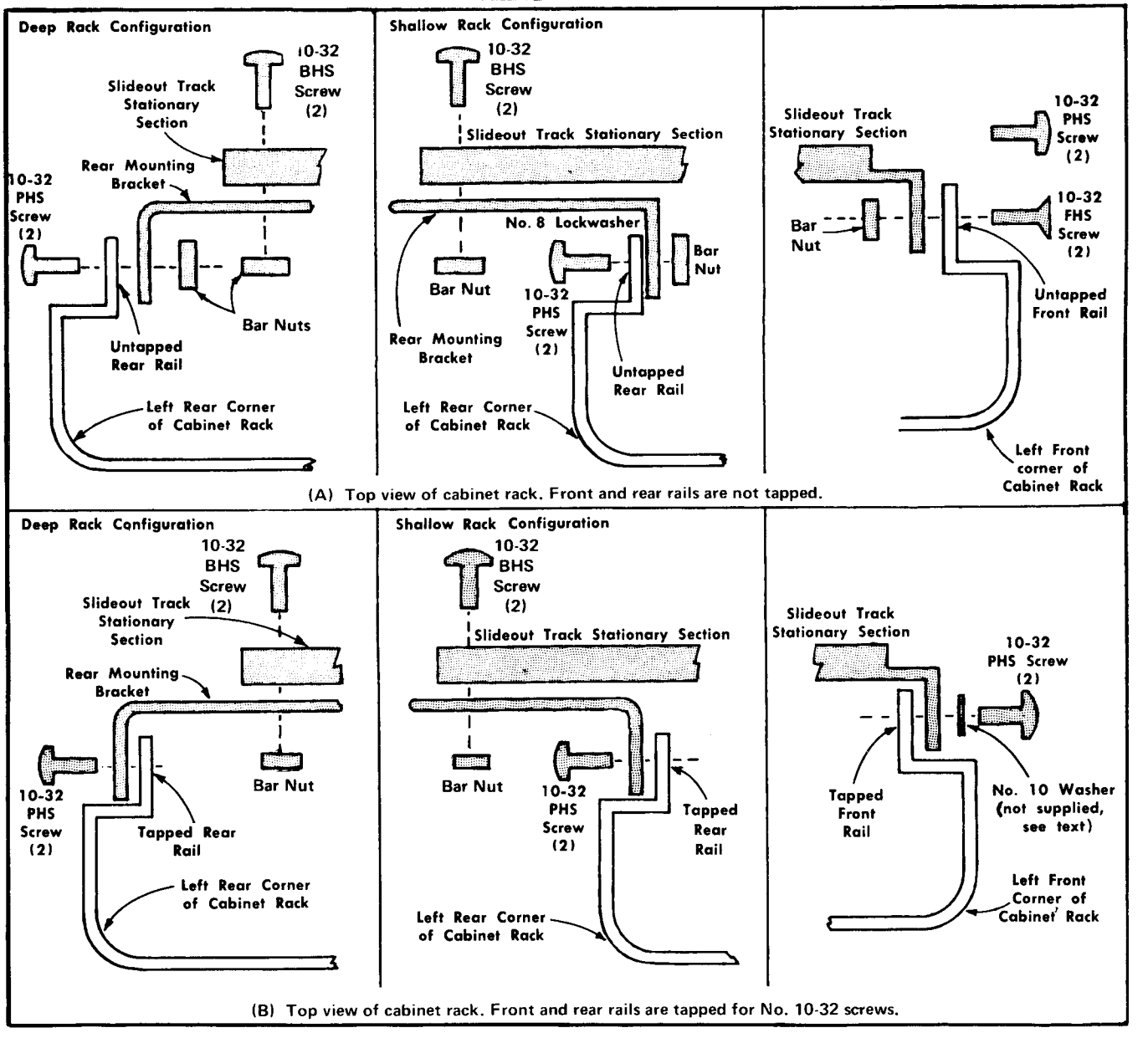


Fig. 1 Mounting the left stationary section (with its matched intermediate section, not shown in illustrations A and B) to the rack rails.

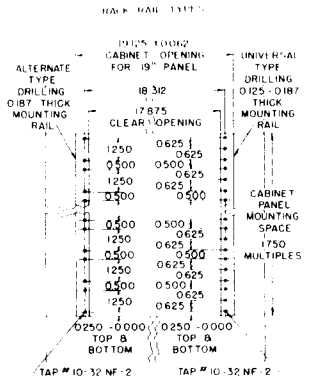
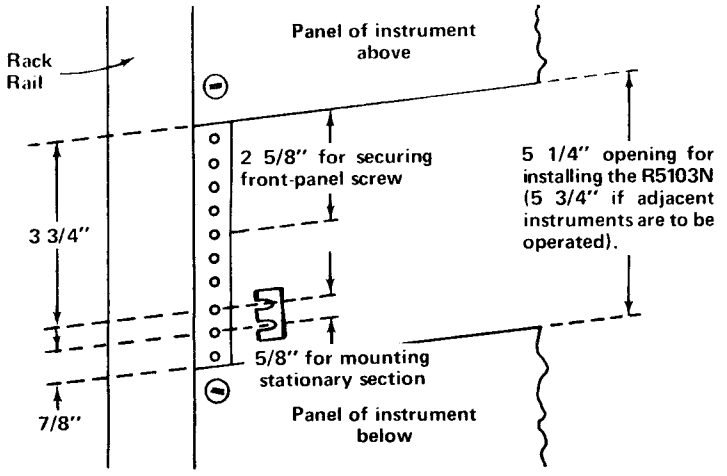


Fig. 2



3. (continued)

   b) If the rear rack rail holes are tapped to accept 10-32 machine screws, mount the left stationary section with hardware provided as shown in the left or center illustration of Fig. 1B. Note that the rear mounting bracket can be installed either way so the slide-out tracks will fit a deep or shallow cabinet rack. Use Fig. 1B as a guide for mounting the right stationary section. Make sure the stationary sections are horizontally aligned so they are level and parallel with each other.

To insert the units into the rack, proceed as follows:

1. Pull the slide-out track intermediate sections out to the fully extended position.

2. Insert the unit sections into the intermediate sections.

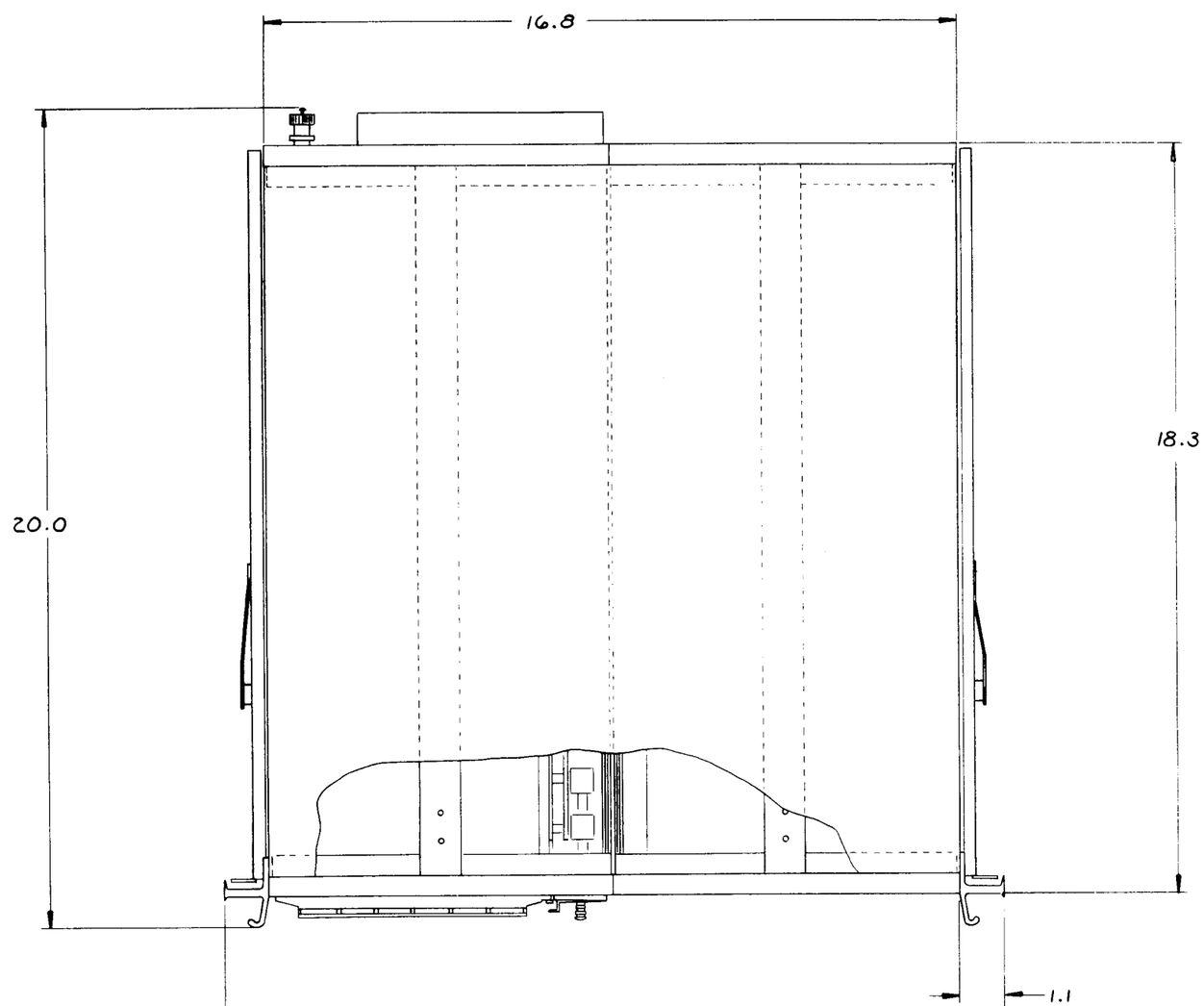
3. Press the stop latches on the chassis sections and push the instrument toward the rack until the latches snap into their holes.

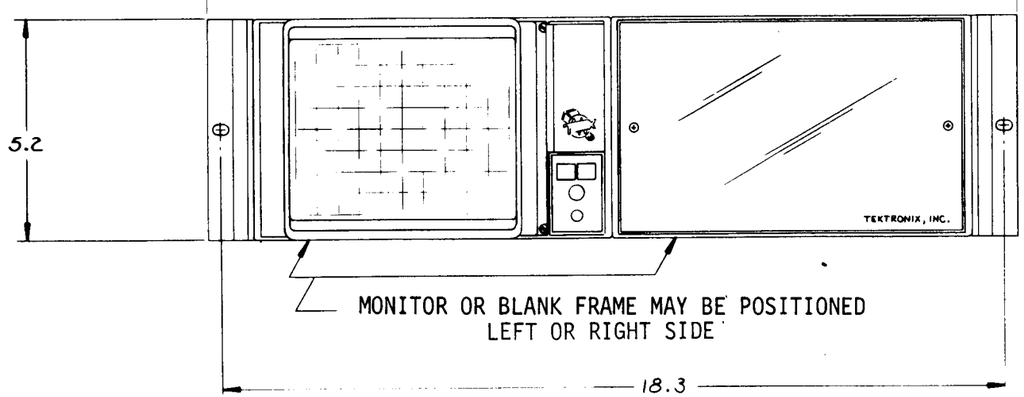
4. Again press the stop latches and push the units into the rack.

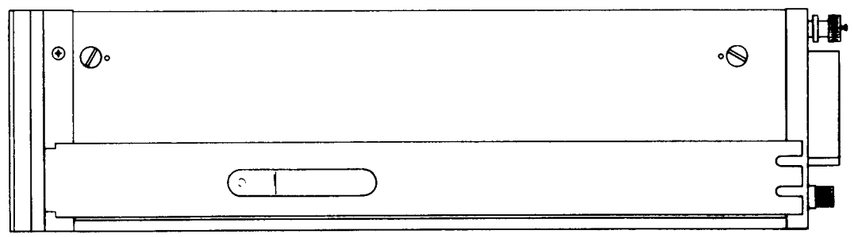
To adjust the slide-out tracks for smooth sliding action, loosen the screws used to join the stationary sections to the rails of the rack. Center the units, allowing the slide-out tracks to seek the proper width, then tighten the screws.

Maintenance

The slide-out tracks require no lubrication. The special dark gray finish on the sliding parts is a permanent lubrication.


16.8
20.0
18.3
1.1
19.0


5.2
TEKTRONIX, INC.
MONITOR OR BLANK FRAME MAY BE POSITIONED
LEFT OR RIGHT SIDE
18.3



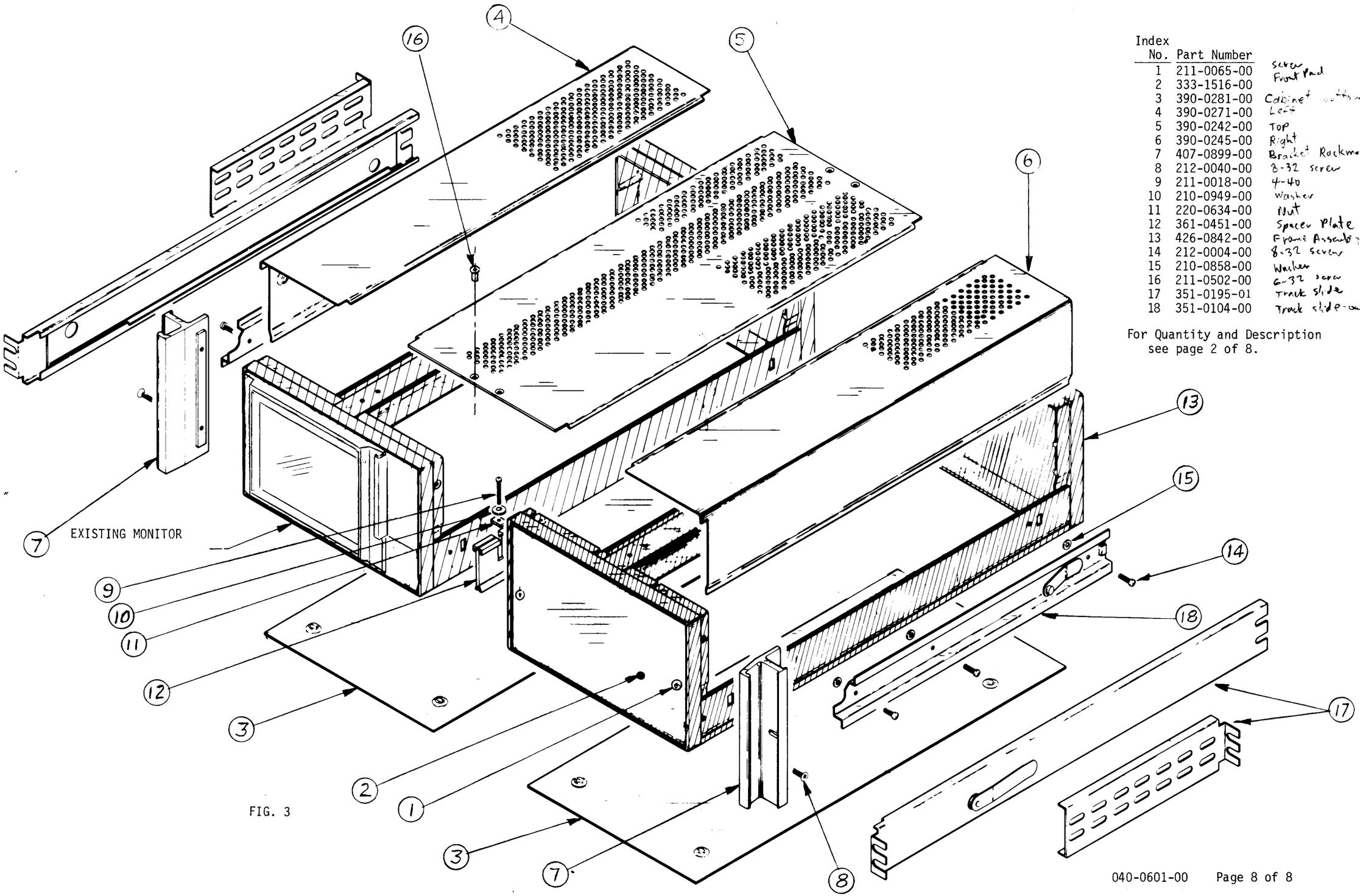


FIG. 3

Index No.	Part Number	
1	211-0065-00	screw
2	333-1516-00	Front Pad
3	390-0281-00	Cabinet bottom
4	390-0271-00	Left
5	390-0242-00	Top
6	390-0245-00	Right
7	407-0899-00	Bracket Rackmounting
8	212-0040-00	8-32 screw
9	211-0018-00	4-40
10	210-0949-00	Washer
11	220-0634-00	Nut
12	361-0451-00	Spacer Plate
13	426-0842-00	Frame Assembly
14	212-0004-00	8-32 screw
15	210-0858-00	Washer
16	211-0502-00	6-32 screw
17	351-0195-01	Track slide
18	351-0104-00	Track slide-ext.

For Quantity and Description see page 2 of 8.

Product Modification Kit
SUGGESTION/CORRECTION FORM

DATE _____

KIT NUMBER _____ STEP/PAGE _____

FIGURE NUMBER _____ PUBLICATION DATE _____

DISCREPANCY _____

_____

_____

_____

SUGGESTED CORRECTION / COMMENTS _____

_____

_____

SUGGESTED BY: NAME / ORGANIZATION _____

☐ REPLY REQUESTED

RETURN TO LOCAL FIELD OFFICE / SERVICE CENTER

FIELD OFFICE / SERVICE CENTER / DEL. STA. _____

SERVICE CENTER: RETURN TO PARTS RESEARCH 73-848

REPLY

☐ WILL MAKE CHANGE IMMEDIATELY

☐ WILL MAKE CHANGE AT NEXT PRINTING

☐ OTHER _____

_____

_____

SIGNED _____ DATE _____