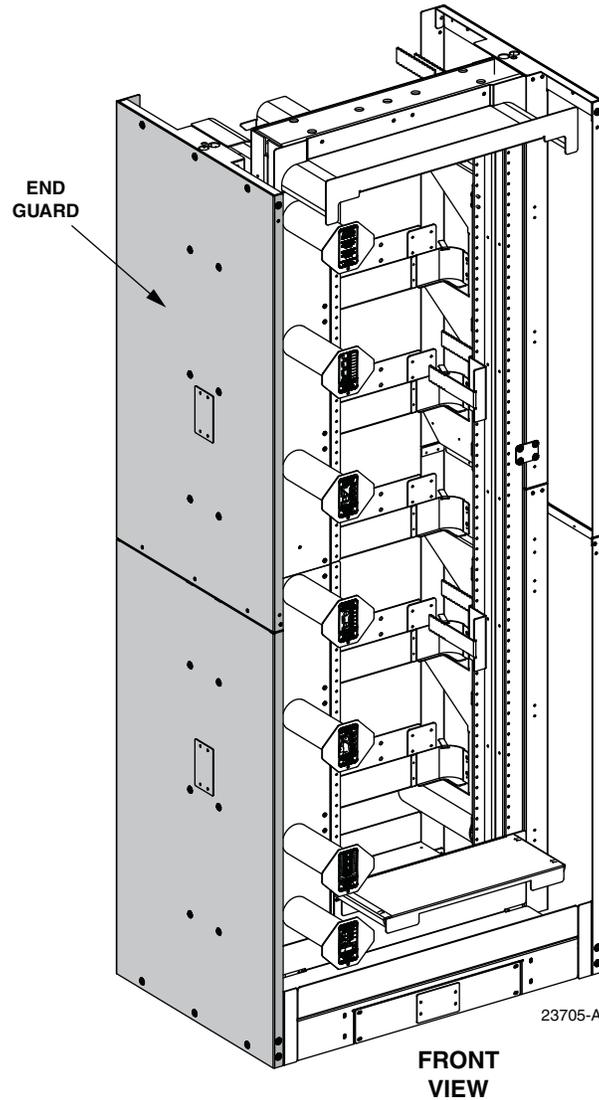




NG3™ High Density Fiber Distribution Frame End Guard Installation Instructions

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INTRODUCTION

This manual describes installation of the NG3 end guard kit, either on an NG3 frame or on an NG3 Fiber Optic Terminal Storage Panel (FOTSP).

Revision History

ISSUE	DATE	REASON FOR CHANGE
1	12/2009	Original.

Trademark Information

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ADMONISHMENTS

Important safety admonishments are used throughout this manual to warn of possible hazards to persons or equipment. These admonishments — in the form of Dangers, Warnings, and Cautions — must be followed at all times. These warnings are flagged by use of the triangular alert icon (seen below), and are listed in descending order of severity of injury or damage and likelihood of occurrence.



Danger: *Danger is used to indicate the presence of a hazard that **will** cause severe personal injury, death, or substantial property damage if the hazard is not avoided.*



Warning: *Warning is used to indicate the presence of a hazard that **can** cause severe personal injury, death, or substantial property damage if the hazard is not avoided.*



Caution: *Caution is used to indicate the presence of a hazard that **will** or **can** cause minor personal injury or property damage if the hazard is not avoided.*

1 PRODUCT DESCRIPTION

The NG3 High Density Fiber Distribution System End Guard protects the end of an NG3 lineup from physical damage and intrusion while also providing a vertical trough for electrical cords. The end guard itself is one component in a kit (catalog # NG3-EGFTWN7A00) that includes the end guard top, the electrical trough, the end guard base, and three sets of mounting brackets, as shown in the exploded views on the next two pages.

The end guard can be installed on either the left side or right side of a frame or on either the left side or right side of a FOTSP. The brackets used are slightly different on the left side and right side installations, but the same kit contains all components required in any installation. Brackets that are not used can be discarded or set aside for other purposes.

2 INSTALLING THE END GUARD ON AN NG3 FRAME

Figure 1 indicates the six steps in installing an end guard on the left side of an NG3 frame (when viewed from the front). All kit components required for left side installation are shown.

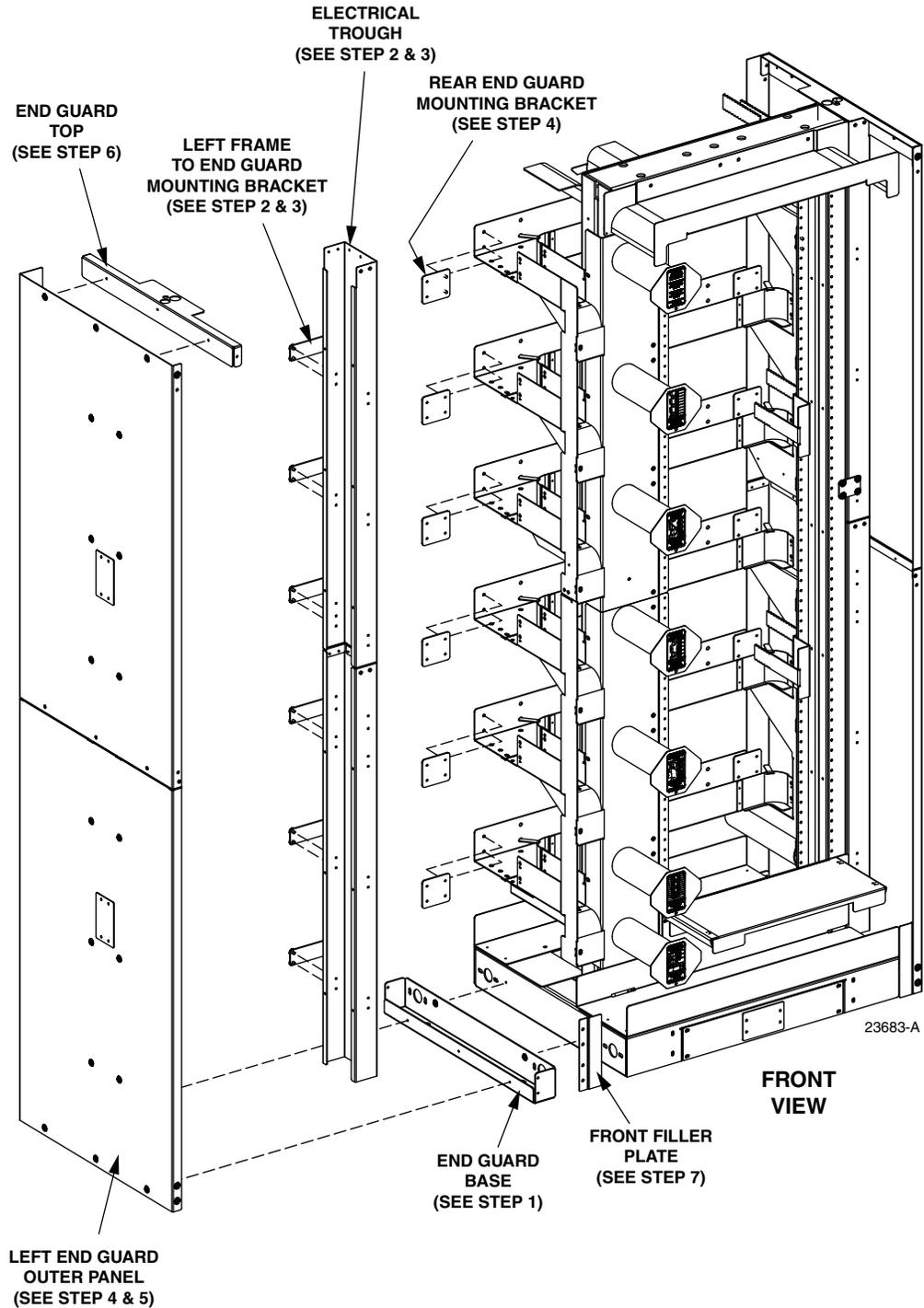


Figure 1. Left Side Installation on Frame Exploded View and Steps

Figure 2 indicates the six steps in installing an end guard on the right side of an NG3 frame (when viewed from the front). All kit components required for right side installation are shown.

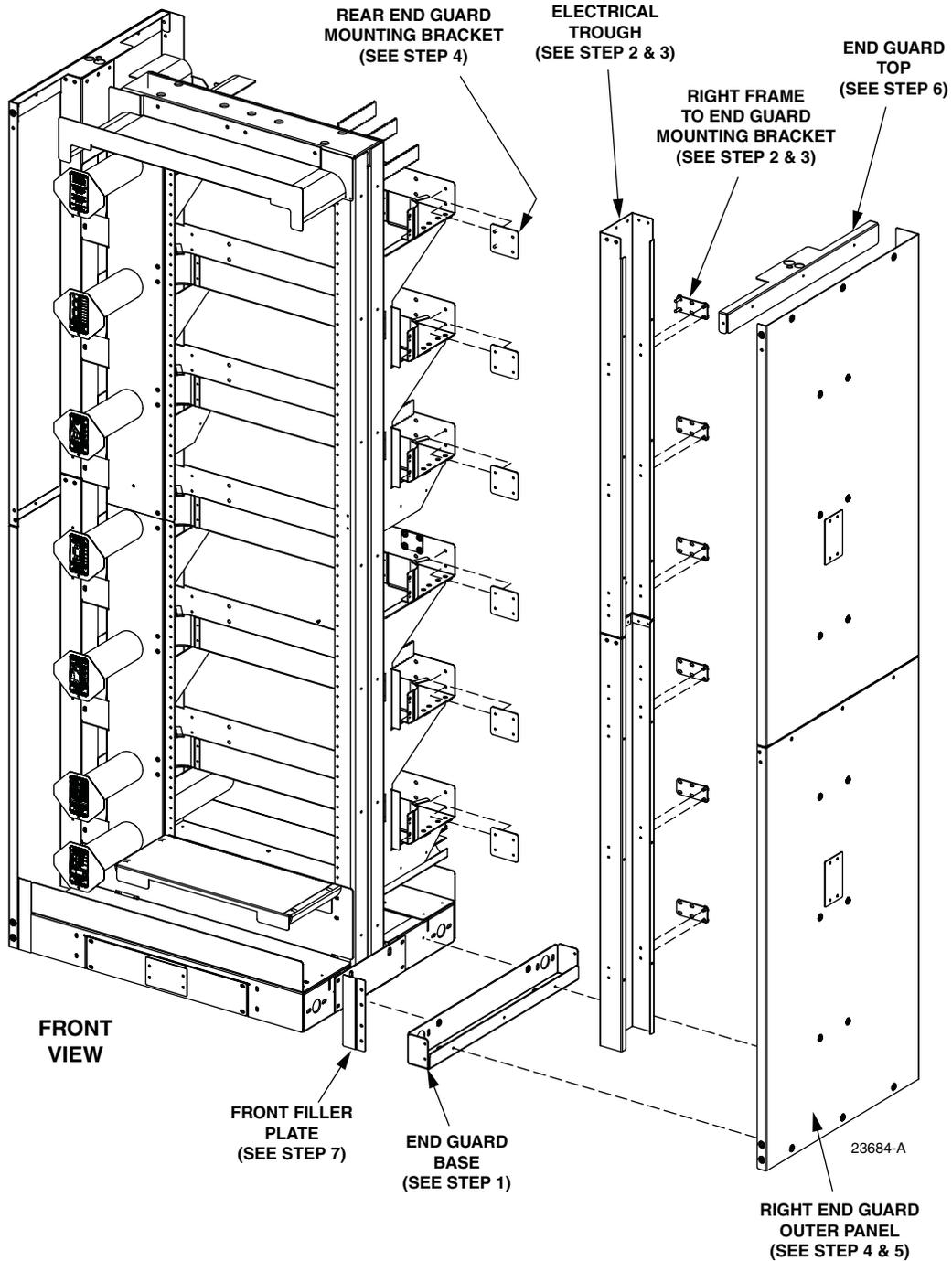


Figure 2. Right Side Installation on Frame Exploded View and Steps

Use the following procedure to install the end guard on a frame.

► **Note:** Art in this section shows the end guard being installed on the left side of the frame. Differences between the left and right side installation will be indicated in the instructions for each step.

1. Assemble the end guard base on the base of the frame, using two 12-24 x 0.312 inch screws and two external tooth lockwashers, as shown in the rear view in [Figure 3](#).

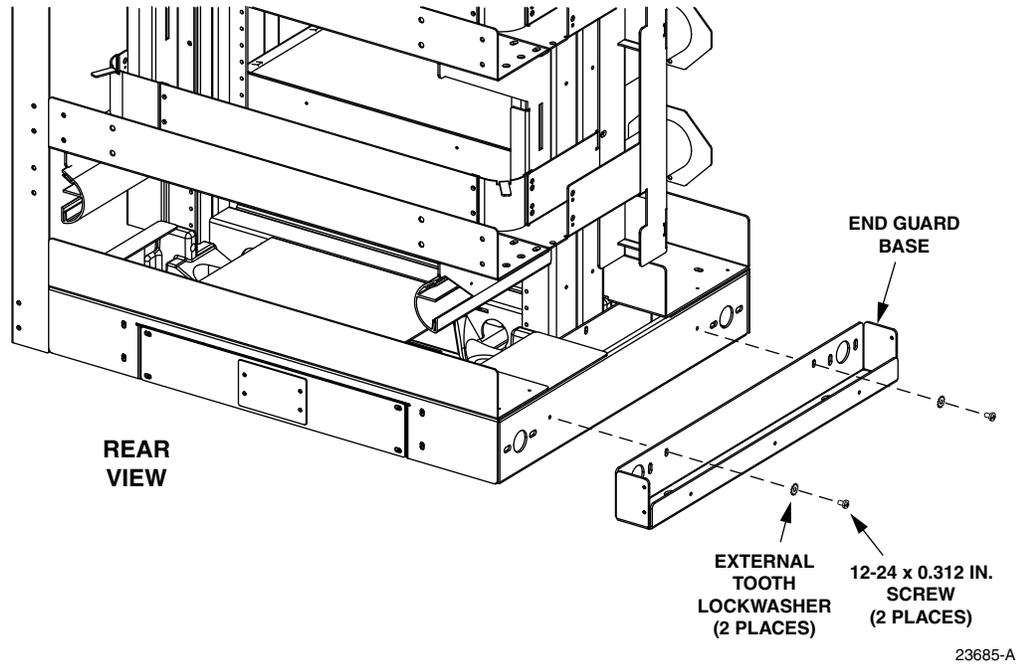


Figure 3. Assembling End Guard Base to Base of Frame

2. Install the six frame to end guard mounting brackets on the electrical trough using two 12-24 x 0.312 inch screws and two external tooth lockwashers for each bracket, as shown in Figure 4.

▶ **Note:** The left side and right side brackets are slightly different. Figure 4 shows the left side brackets. For a depiction of the right side brackets, refer to the exploded view in Figure 2 on Page 4.

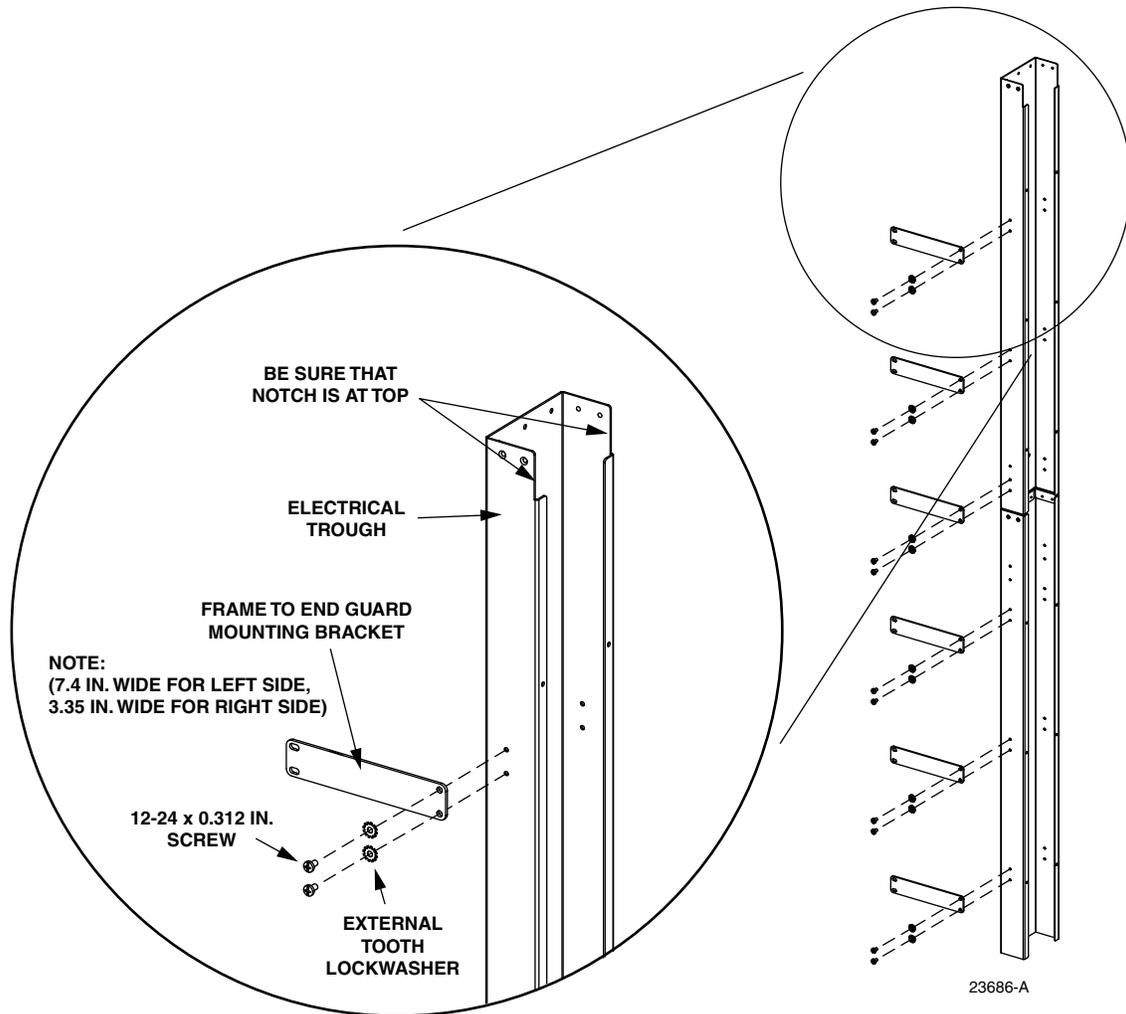


Figure 4. Installing End Guard Mounting Brackets on Vertical Trough

3. Assemble the electrical trough to the frame using two 12-24 x 0.312 inch screws and two external tooth lockwashers on each of the end guard mounting brackets, as shown in [Figure 5](#).

► **Note:** When positioning a mounting bracket to be secured, slide it through the vertical slot on the rear guard support as shown in the detail bubble in the illustration.

► **Note:** For additional instructions affecting the left side end guard only, see [Figure 6](#) on the next page.

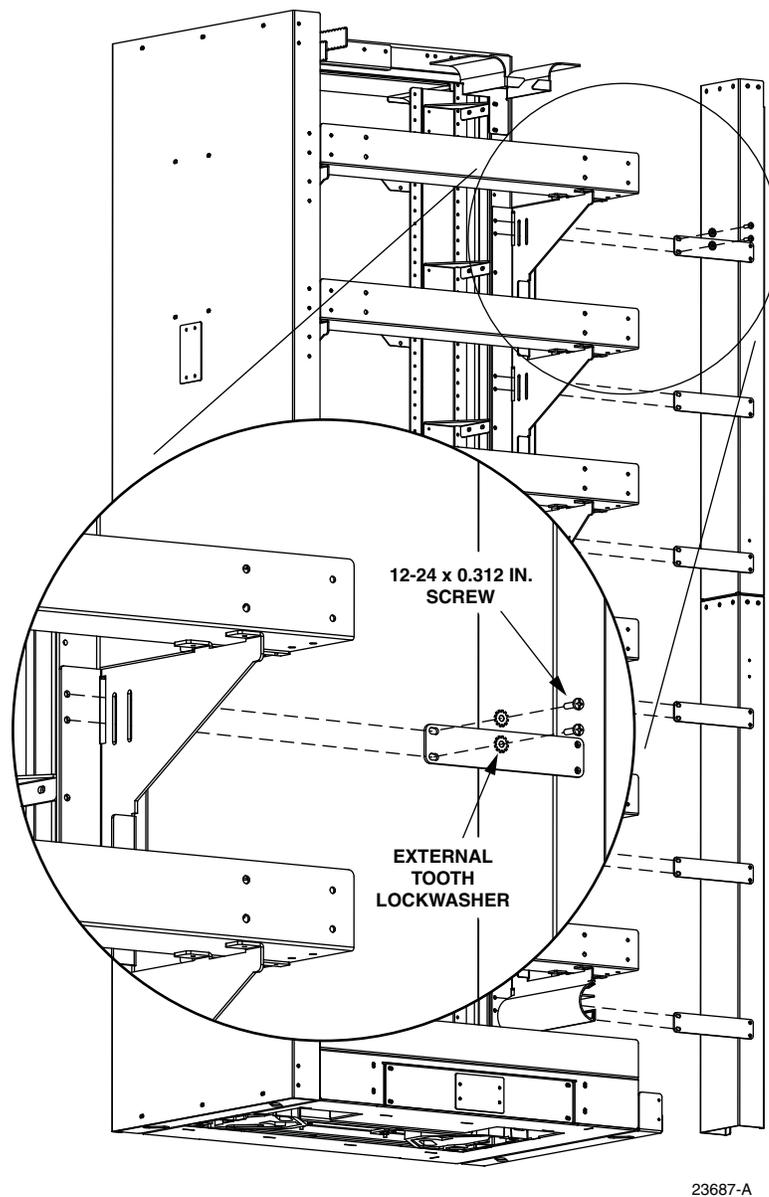


Figure 5. Assembling Electrical Trough to Frame

On a left side electrical trough only, install one 12-24 x 0.312 inch screw and one external tooth lockwasher in the location shown in [Figure 6](#).

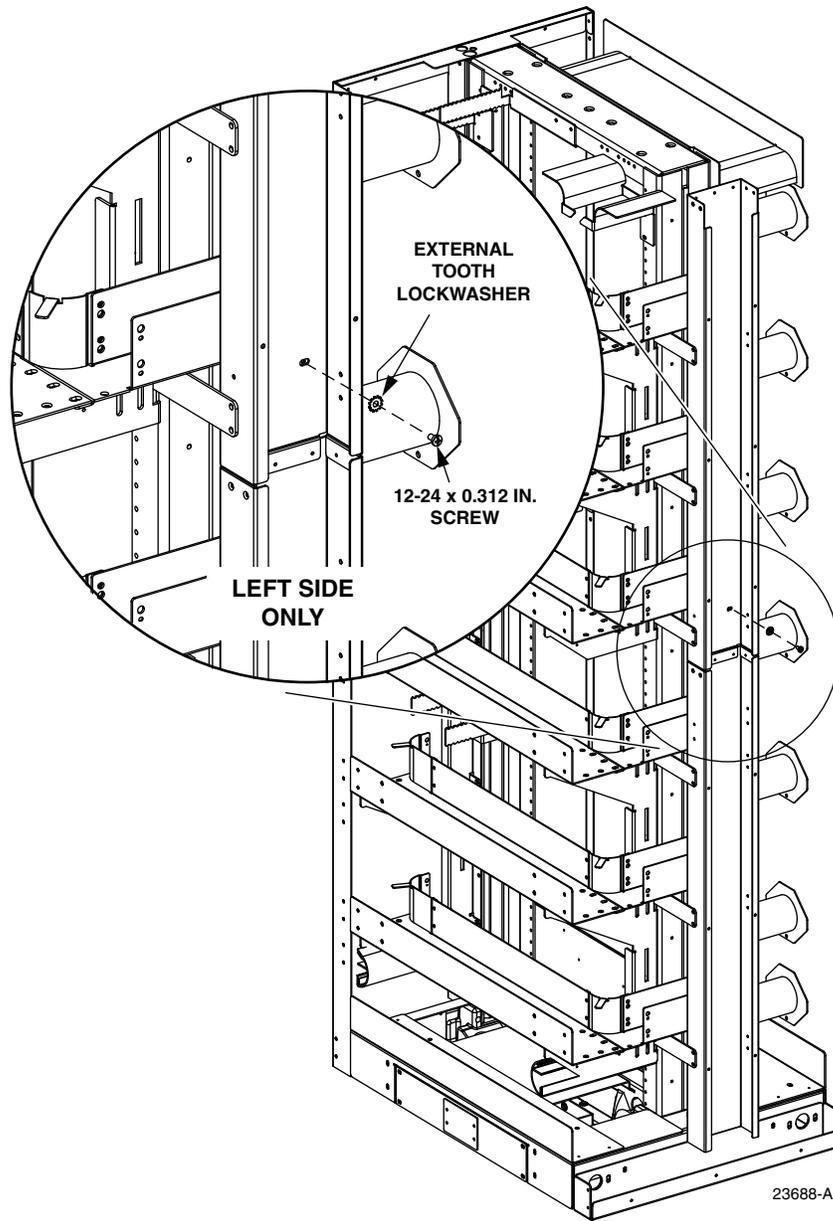
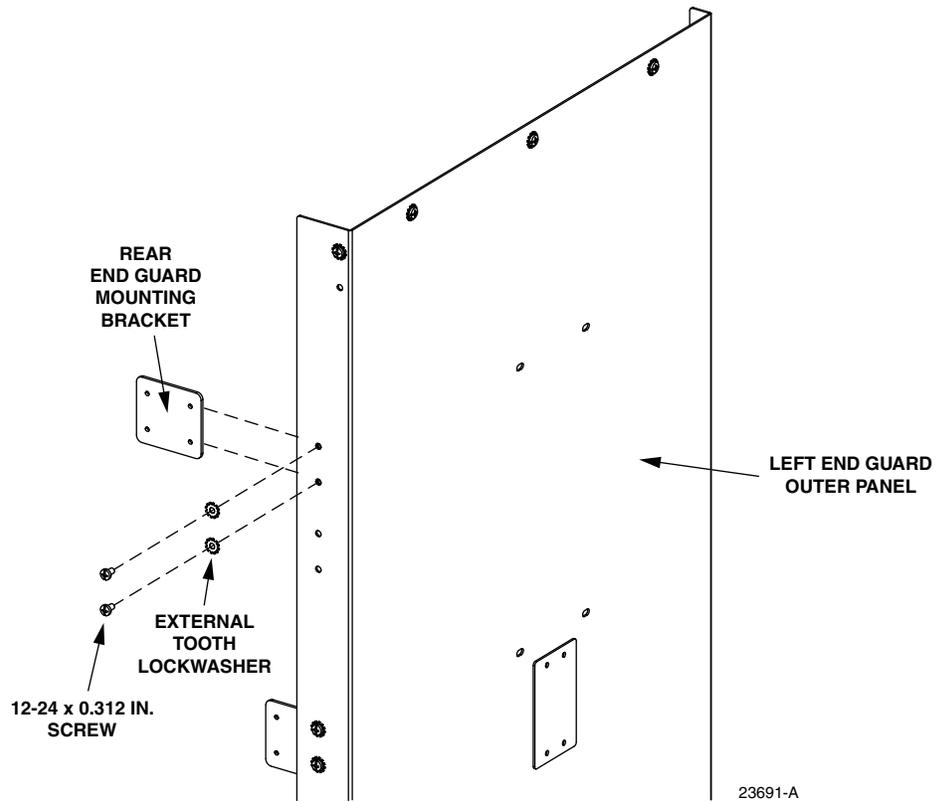


Figure 6. Securing Left Side Electrical Trough

4. Install the six rear end guard mounting brackets on the end guard using two 12-24 x 0.312 screws and two external tooth lockwashers on each bracket, as shown in [Figure 7](#).

► **Note:** The rear end guard mounting brackets are positioned on the inside surface of the end guard with the screws and lockwashers on the outside surface as shown.



NOTE: ROUTE ELECTRICAL CONDUIT IF REQUIRED BEFORE MOVING ON TO STEP 5.

Figure 7. Installing the Rear End Guard Mounting Brackets

5. Assemble the end guard to the frame in the orientation shown in Figure 8, positioning the six rear end guard mounting brackets on the inside surface of the rear trough of the frame. Fasten each individual bracket to the rear trough using two 12-24 x 0.312 inch screws and two external tooth washers, as shown.

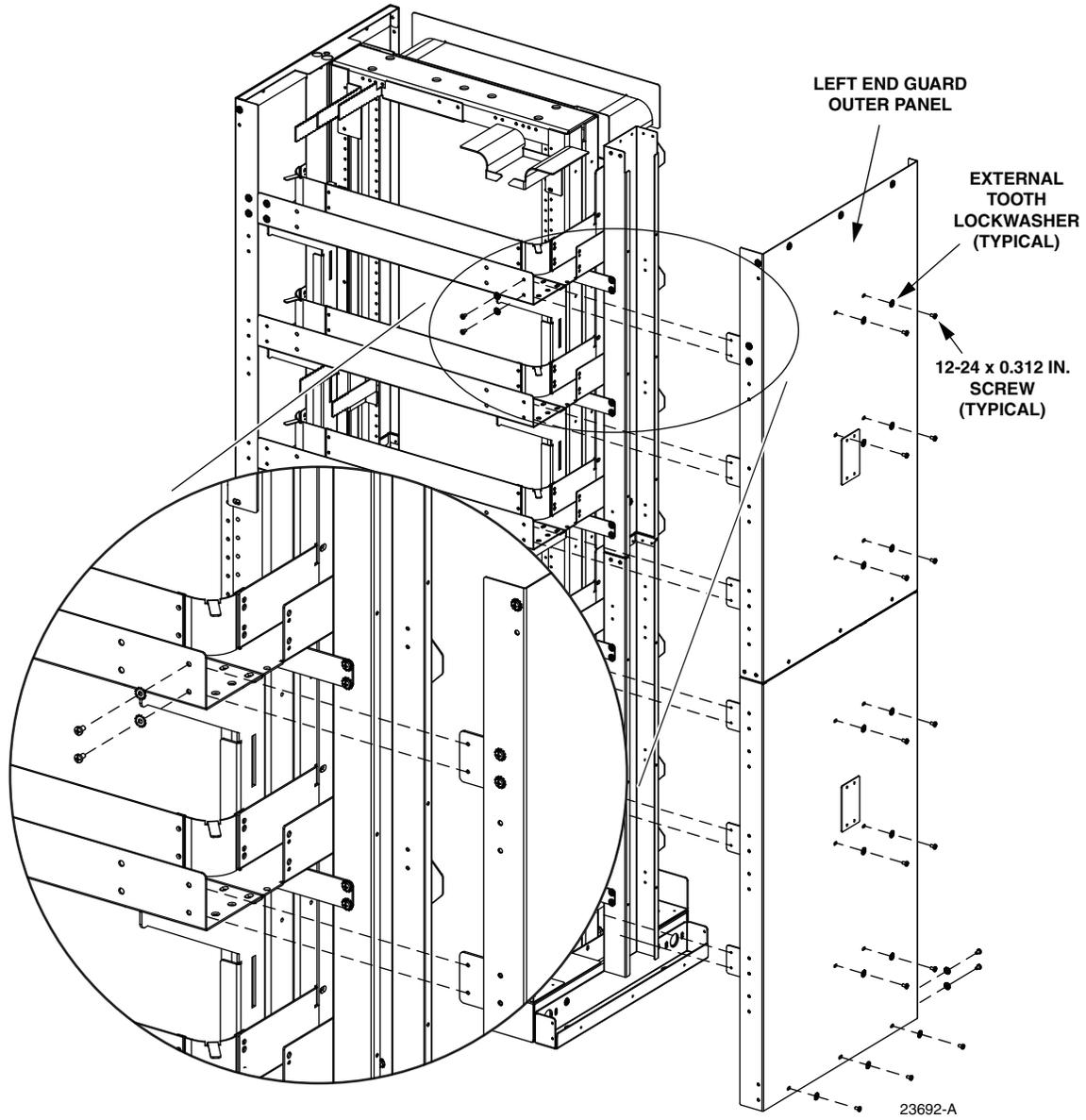


Figure 8. Assembling the End Guard to the Frame

- Attach the end guard top to the end guard as shown in [Figure 8](#) using four 12-24 x 0.312 inch screws and four external tooth lockwashers.

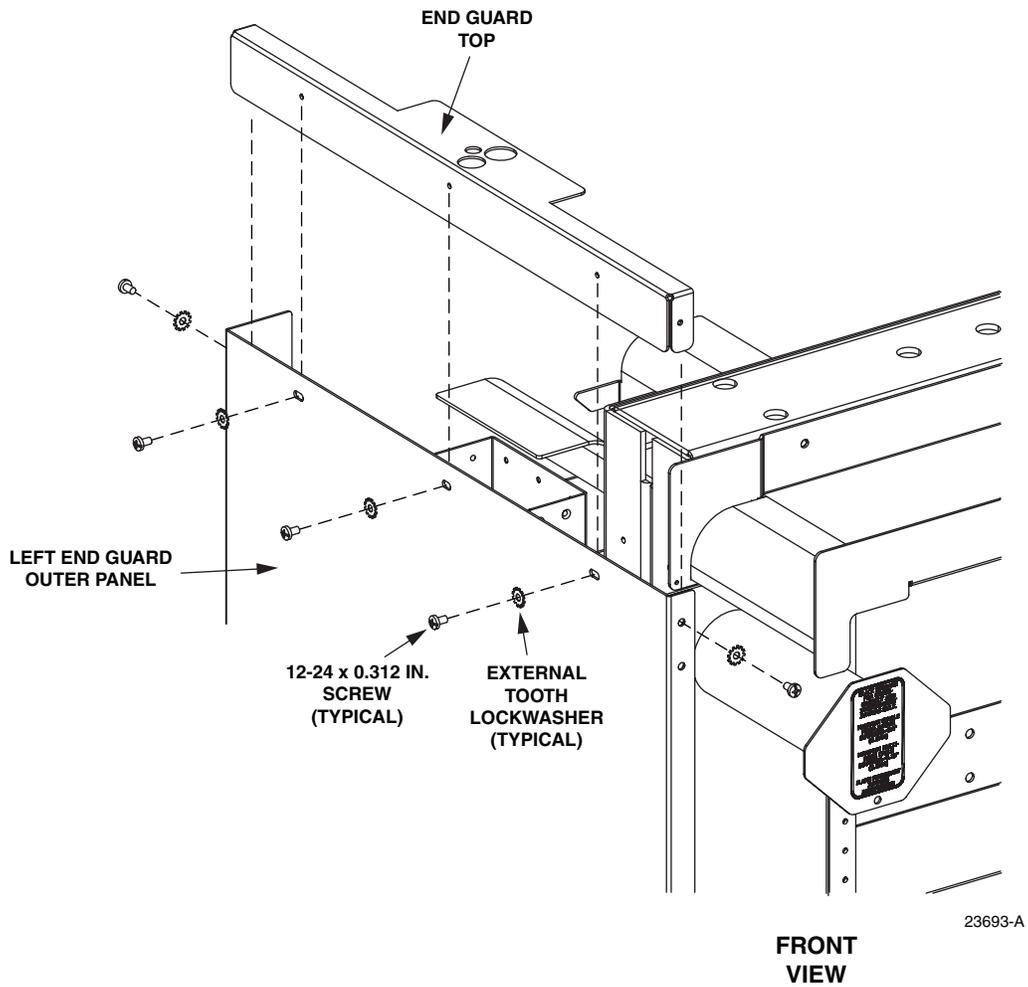


Figure 9. Assembling the End Guard Top to the End Guard

7. Install the front filler plate to the bottom front of the end guard as shown in [Figure 10](#) using two 12-24 x 0.312 inch screws and two external tooth lockwashers.

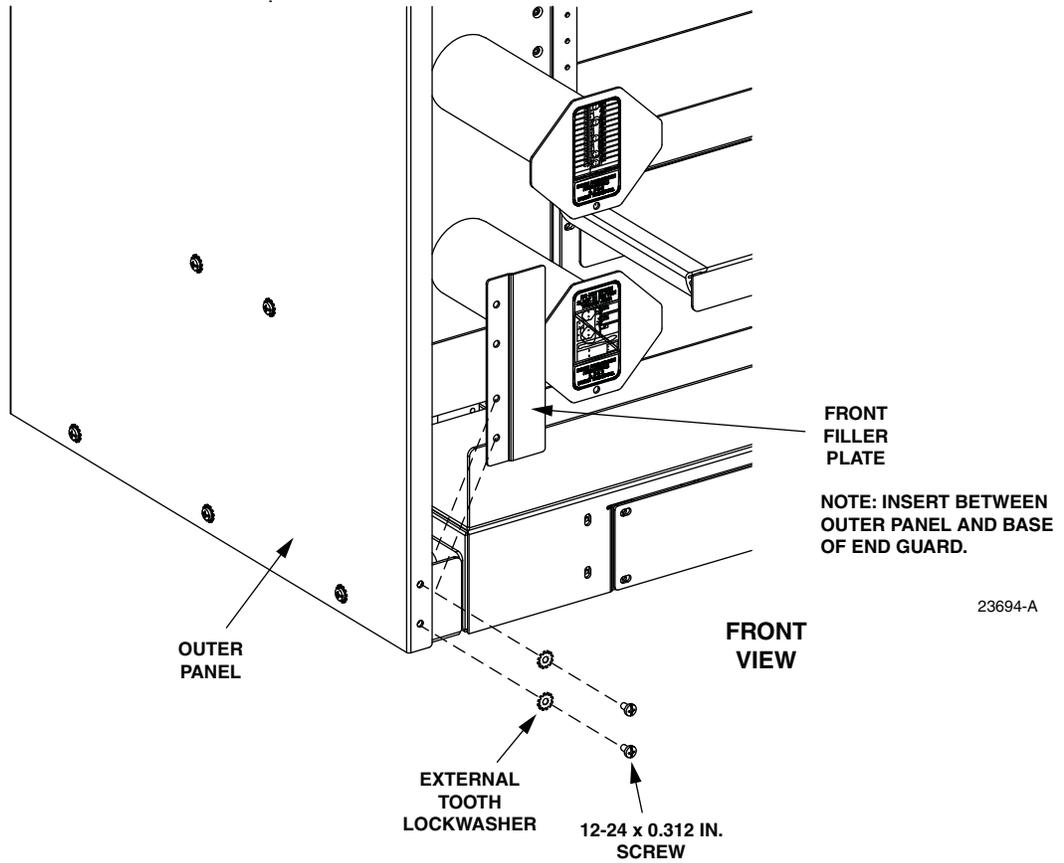


Figure 10. Installing the Front Filler Plate to the End Guard

8. The end guard installation is now completed. [Figure 11](#) shows the end guard completely installed on the left side of the NG3 frame. For an exploded view of an end guard on the right side of the frame, refer to [Figure 2 on Page 4](#).

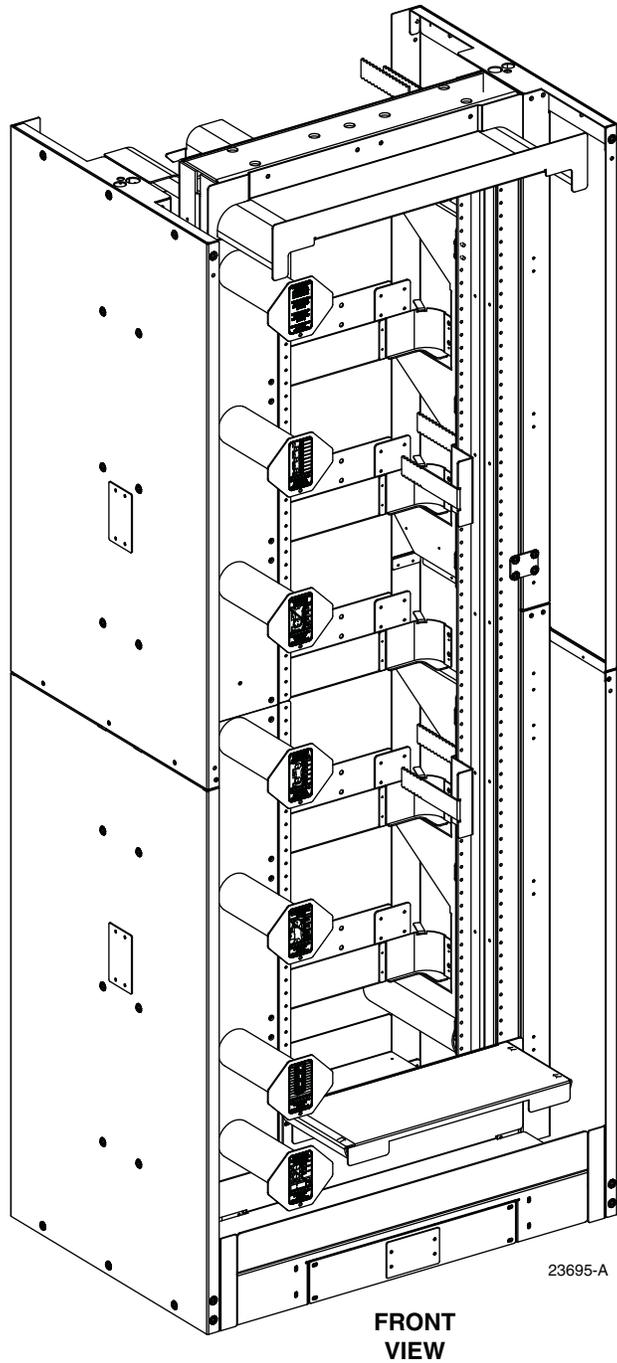


Figure 11. Left Side End Guard Installed on Frame

3 INSTALLING THE END GUARD ON A FOTSP

The NG3 end guard can be installed on either the left side or right side of an NG3 Fiber Optic Storage Panel (FOTSP). **Figure 12** indicates the six steps in installing an end guard on the left side of the FOTSP. All kit components required for left side installation are shown.

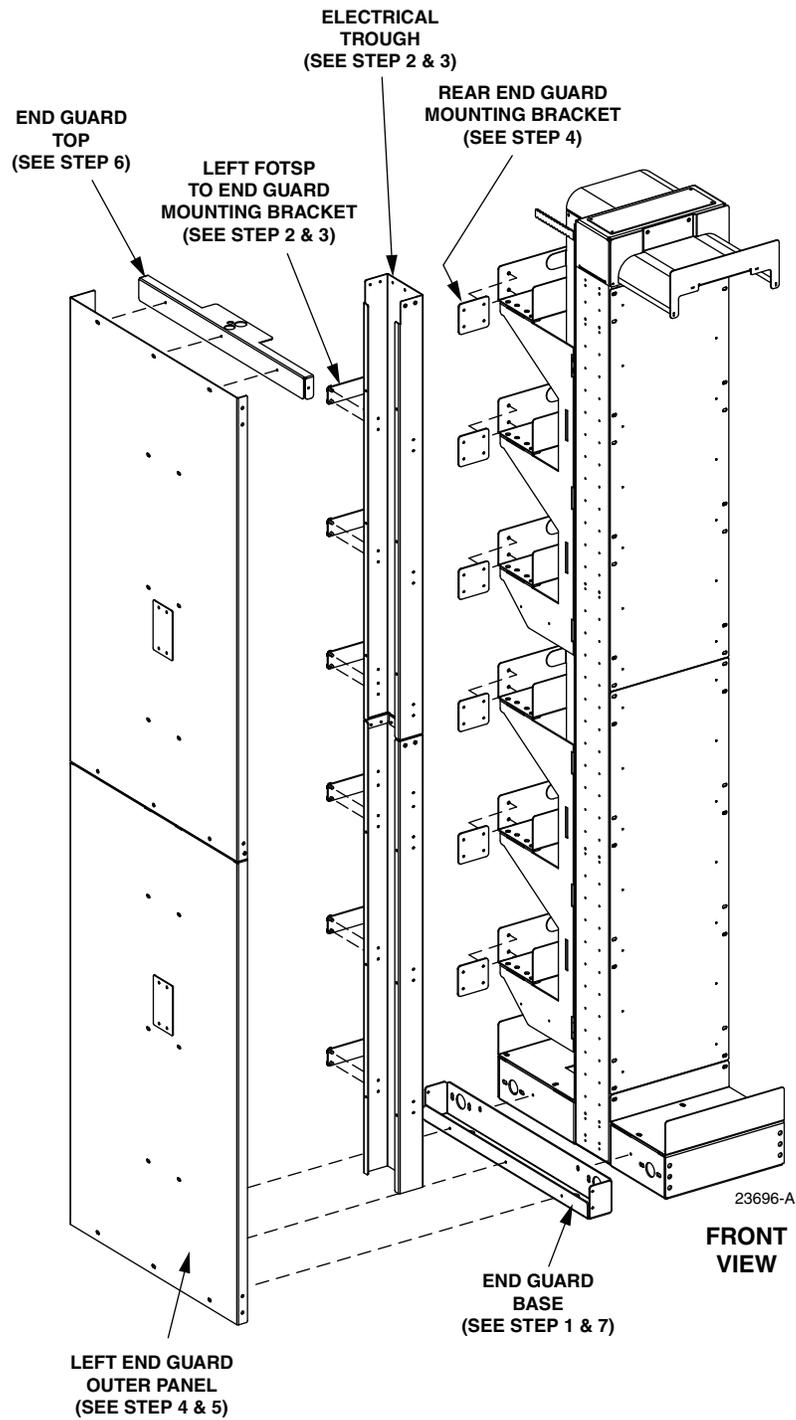


Figure 12. Left Side Installation on FOTSP Exploded View and Steps

Figure 13 indicates the six steps in installing an end guard on the right side of the FOTSP. All kit components required for right side installation are shown.

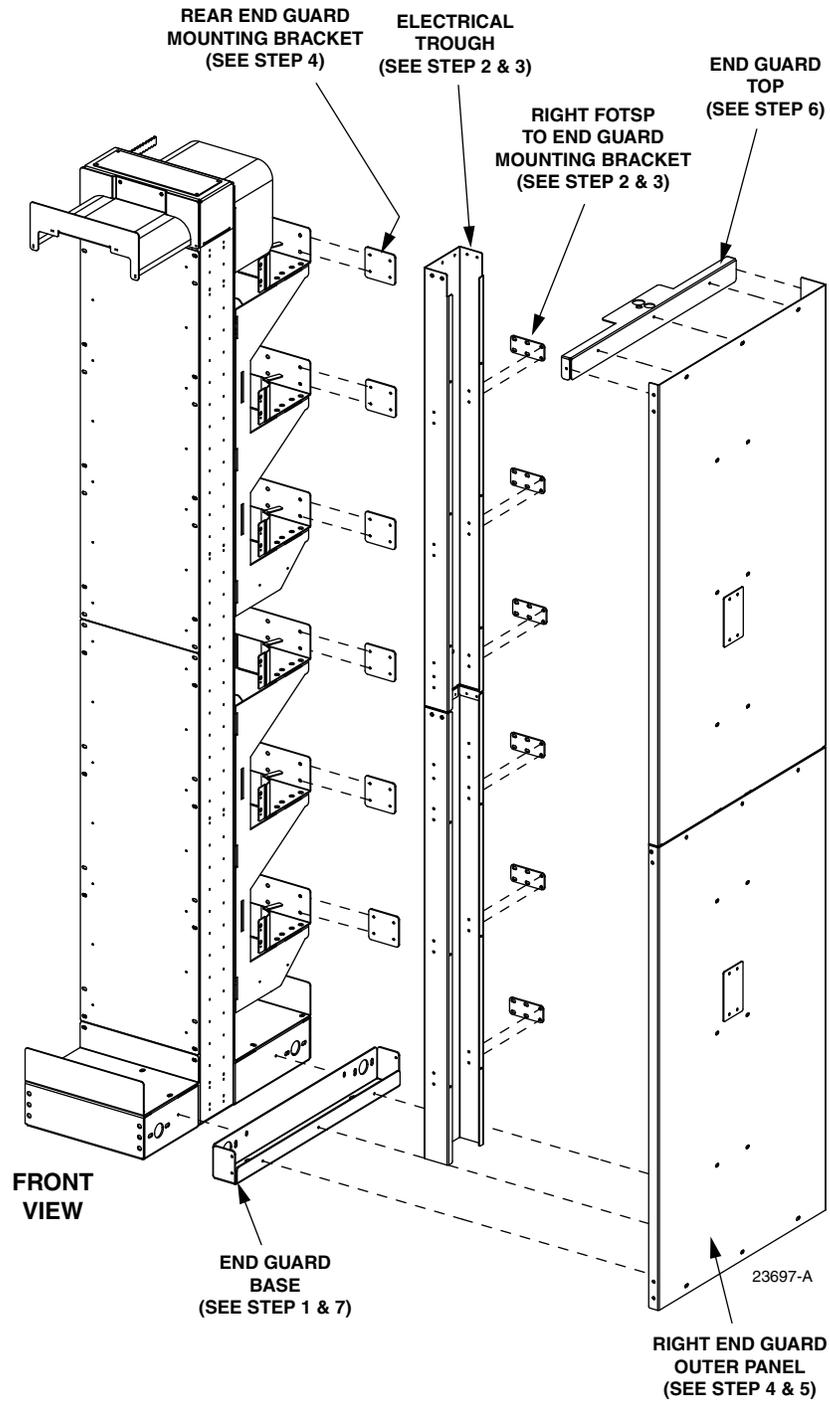


Figure 13. Right Side Installation on FOTSP Exploded View and Steps

Use the following procedure to install the end guard on a FOTSP.

► **Note:** Art in this section shows the end guard being installed on the left side of the FOTSP. Differences between the left and right side installation will be indicated in the instructions for each step.

1. Assemble the end guard base on the base of the FOTSP, using two 12-24 x 0.312 inch screws and two external tooth lockwashers, as shown in [Figure 14](#).

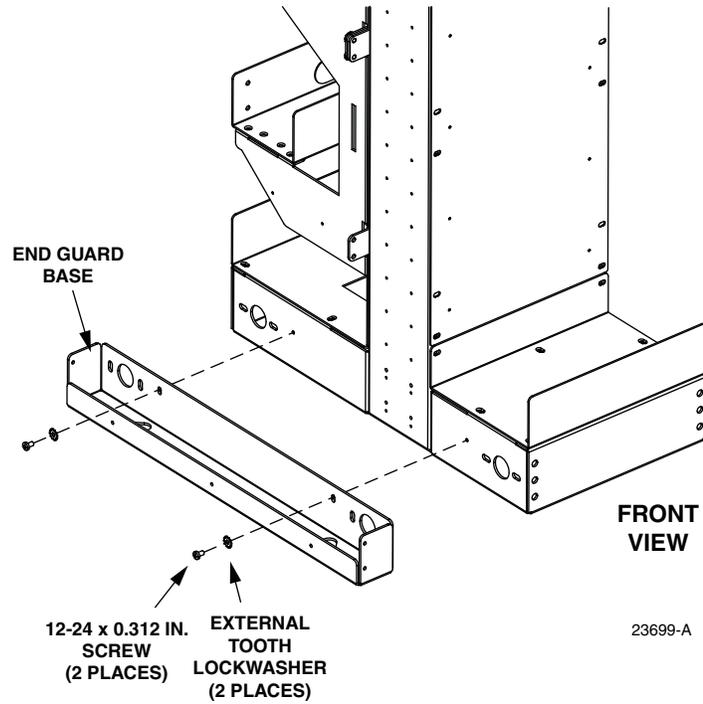


Figure 14. Installing the End Guard Base on the FOTSP

2. Install the six right or left FOTSP to end guard mounting brackets on the electrical using two 12-24 x 0.312 inch screws and two external tooth lockwashers on each bracket, as shown in [Figure 15](#).

► **Note:** For left versus right orientation, refer to [Figure 12 on Page 14](#) and [Figure 13 on Page 15](#).

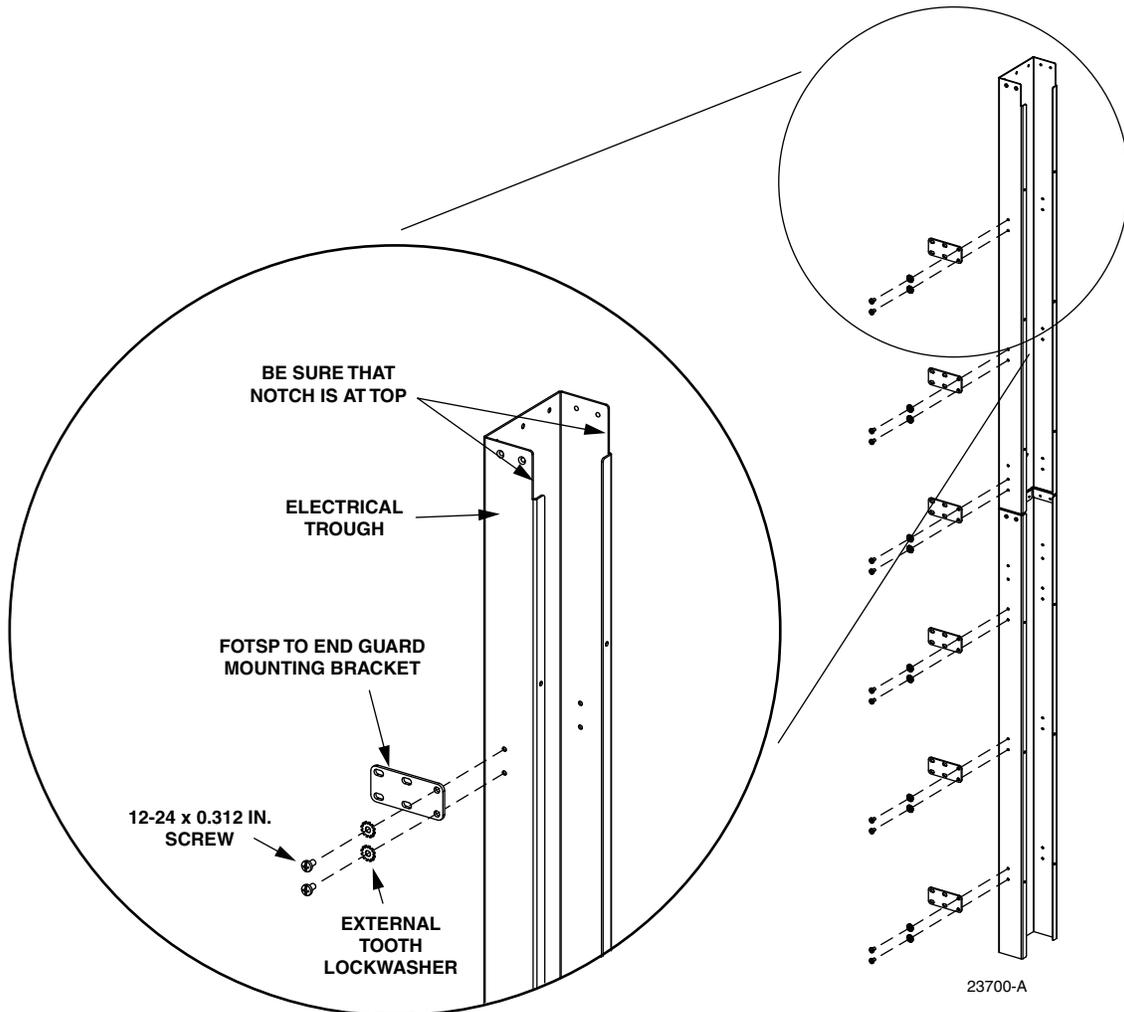


Figure 15. Installing Mounting Brackets on Electrical Trough

3. Assemble the electrical trough to the FOTSP using two 12-24 x 0.312 inch screws and two external tooth lockwashers on each of the right frame to end guard mounting brackets, as shown in [Figure 5](#).

► **Note:** For left versus right orientation, refer to [Figure 12 on Page 14](#) and [Figure 13 on Page 15](#).

► **Note:** When positioning a mounting bracket to be secured, slide it through the vertical slot on the rear guard support as shown in the detail bubble in the illustration.

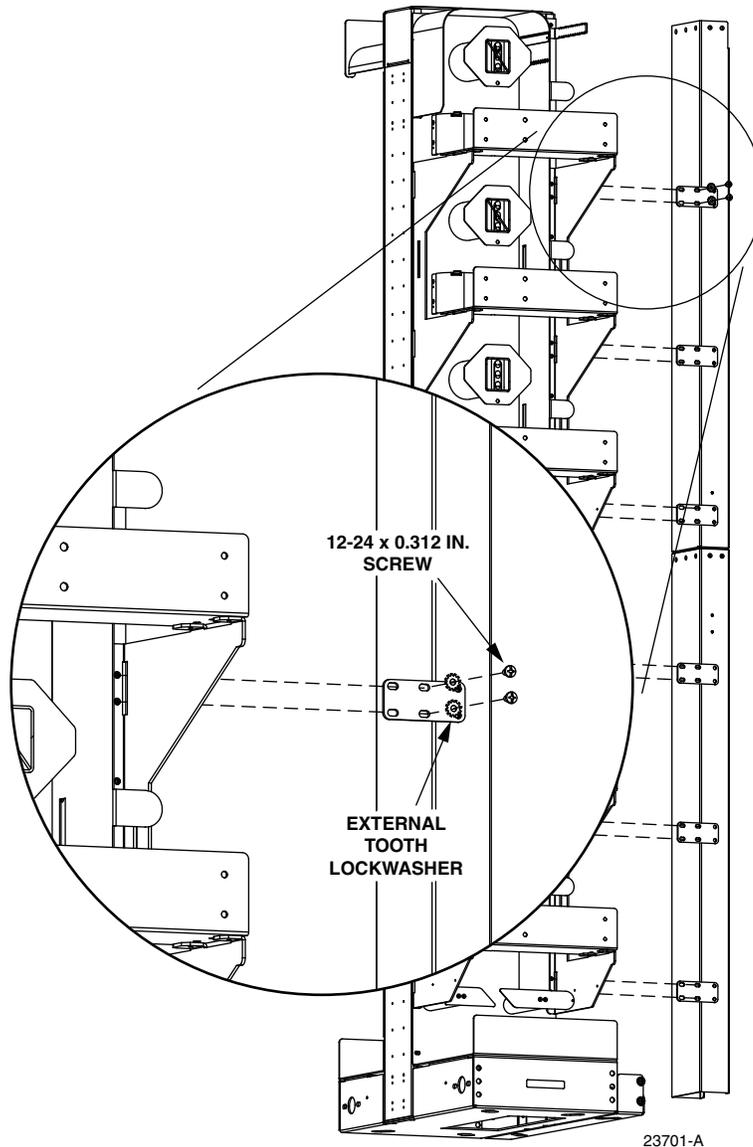
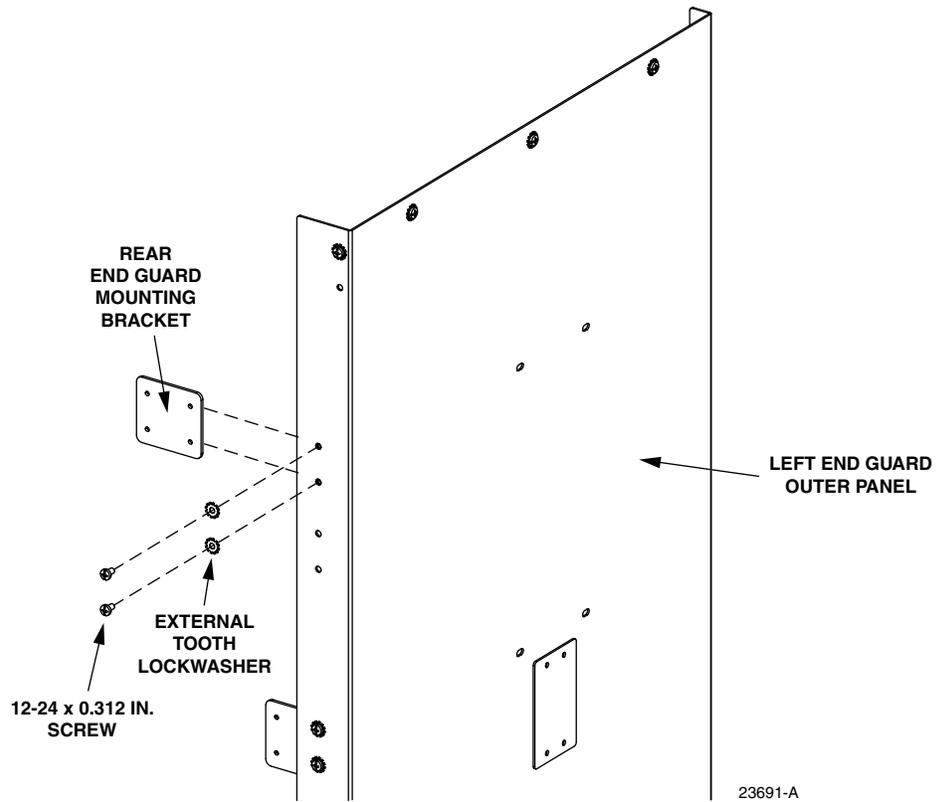


Figure 16. Assembling Electrical Trough on FOTSP

4. Install the six rear end guard mounting brackets on the end guard using two 12-24 x 0.312 inch screws and two external tooth lockwashers on each bracket, as shown in [Figure 7](#).

► **Note:** The rear end guard mounting brackets are positioned on the inside surface of the end guard with the screws and lockwashers on the outside surface as shown.



NOTE: ROUTE ELECTRICAL CONDUIT IF
REQUIRED BEFORE MOVING ON TO STEP 5.

Figure 17. Installing the Rear End Guard Mounting Brackets

5. Assemble the end guard to the FOTSP in the orientation shown in [Figure 18](#), positioning the six rear end guard mounting brackets on the inside surface of the rear trough of the FOTSP. Fasten each individual bracket to the rear trough using two 12-24 x 0.312 inch screws and two external tooth washers, as shown.

► **Note:** For left versus right orientation, refer to [Figure 12 on Page 14](#) and [Figure 13 on Page 15](#).

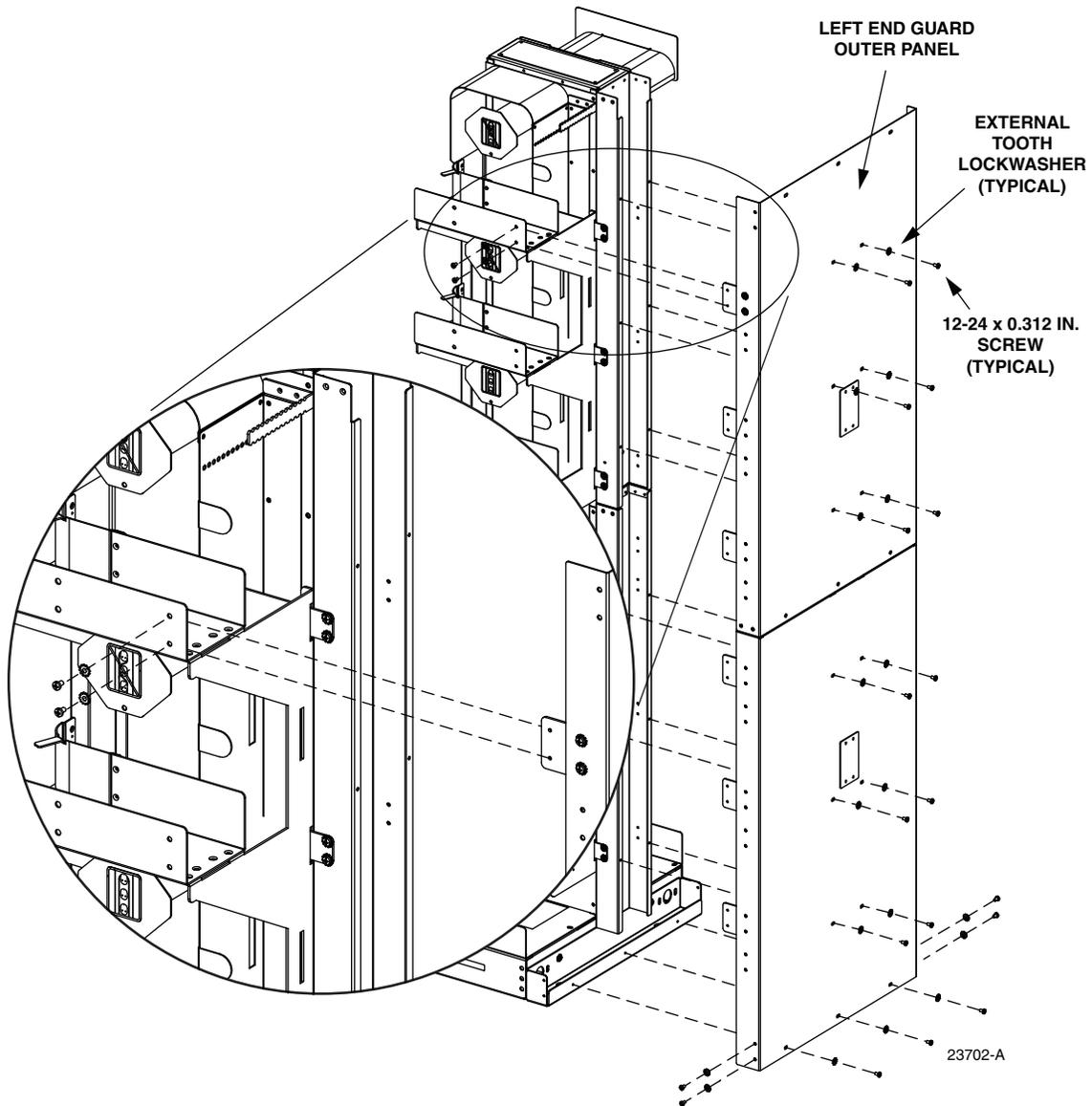


Figure 18. Assembling End Guard on FOTSP

- Attach the end guard top to the end guard as shown in Figure 19 using four 12-24 x 0.312 inch screws and four external tooth lockwashers.

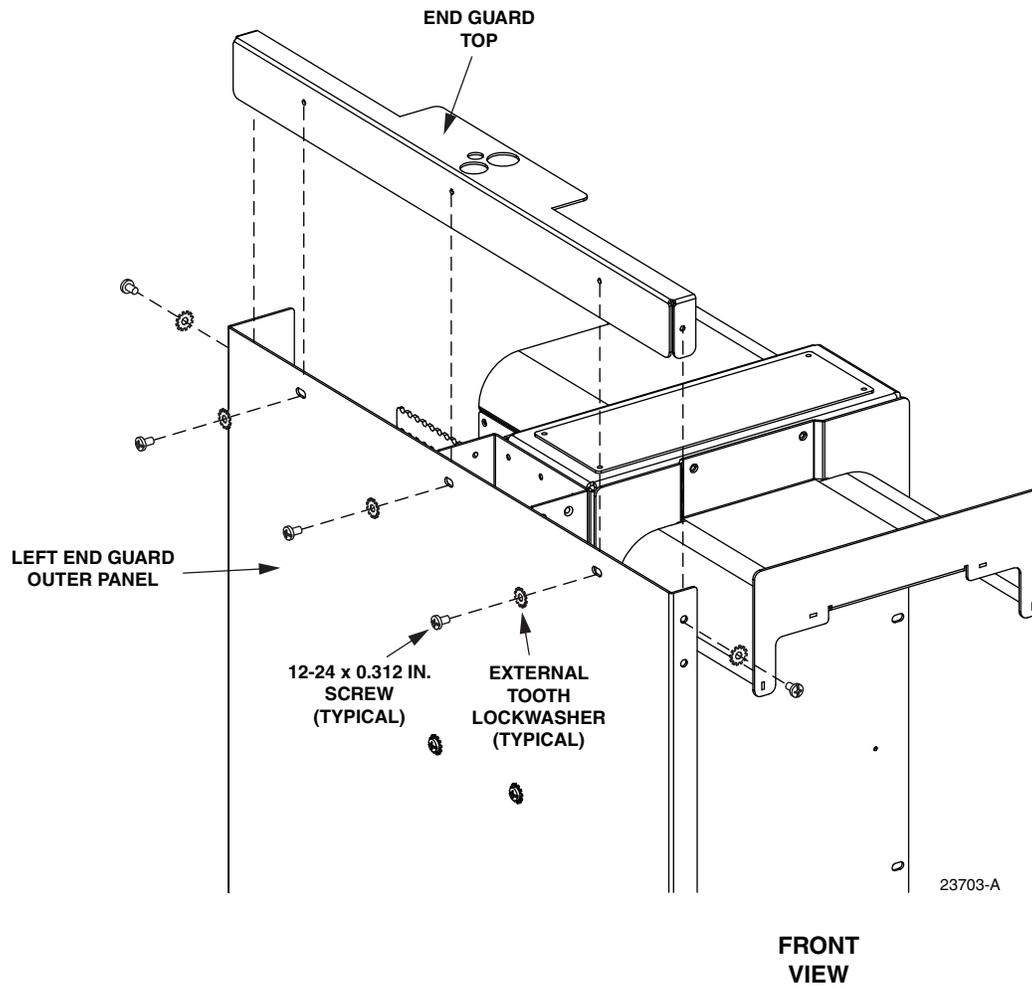


Figure 19. Installing End Guard Top on End Guard

7. Attach the bottom front of the end guard to the bottom front of the FOTSP as shown in [Figure 20](#) using two 12-24 x 0.312 inch screws and two external tooth lockwashers.

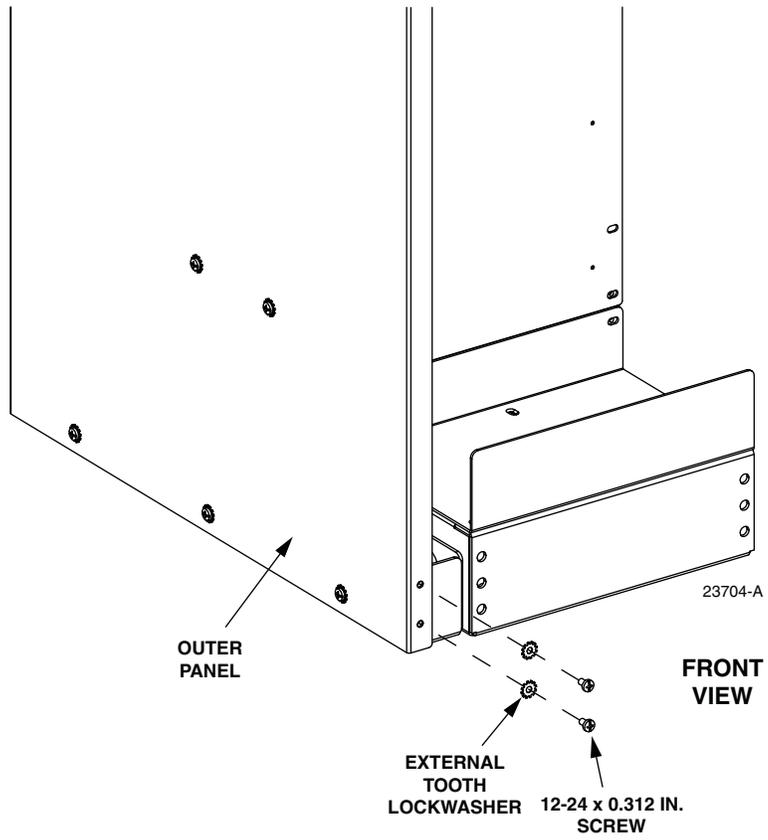
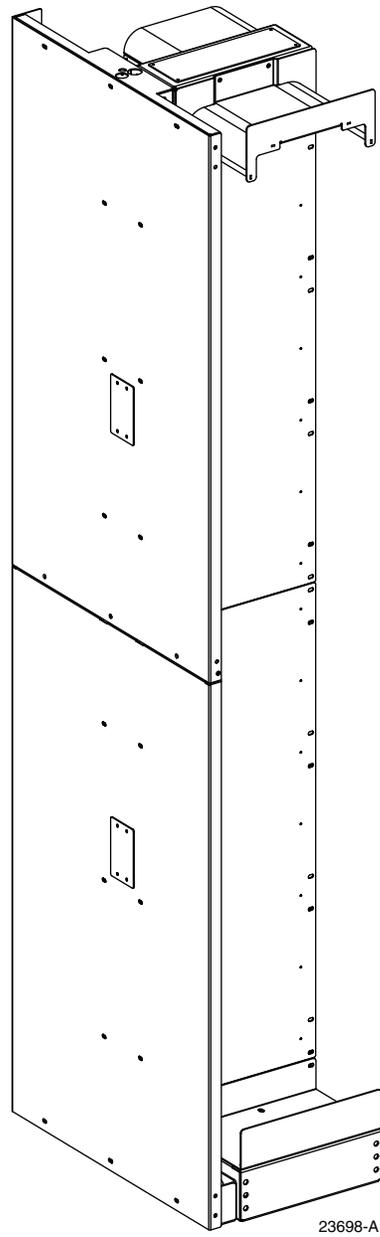


Figure 20. Attaching End Guard Bottom

8. Installation of the end guard on the FOTSP is now complete. Figure shows the end guard completely installed on the FOTSP. For an exploded view of an end guard on the right side of the FOTSP, refer to [Figure 13 on Page 15](#).



**FRONT
VIEW**

Figure 21. End Guard Installed on FOTSP

4 CUSTOMER INFORMATION AND ASSISTANCE



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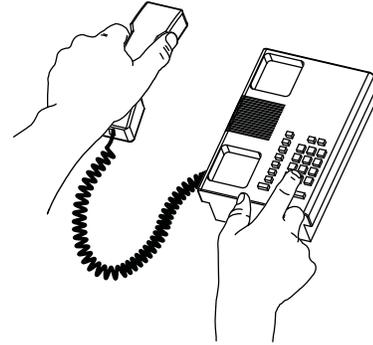
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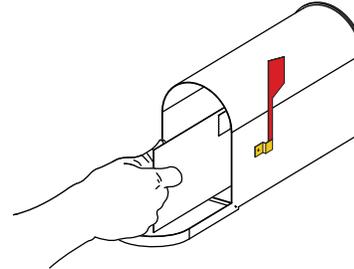
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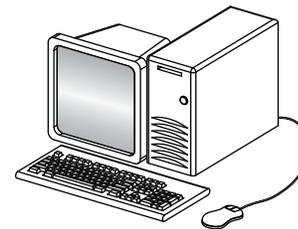
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