

**BLAST ROOM LIGHT FIXTURE
INSTALLATION INSTRUCTIONS
O. M. 29069**

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 **WARNING**

Do not use this equipment before READING this MANUAL and UNDERSTANDING its contents.

These WARNINGS are included for the health and safety of the operator and those in the immediate vicinity. Failure to read and understand these warnings can result in injury or death.

Electronic files include a preface containing the same important information as in the orange cover.

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One Cable Car Dr.
Washington, MO 63090
Phone (636) 239-4300
Fax (800) 726-7559
Email: info@clemcoindustries.com
www.clemcoindustries.com

INDUSTRIAL
Blast Facilities
by **CLEMCO**[®]

1.0 INTRODUCTION

1.1 Scope of Manual

1.1.1 These instructions explain the installation of blast room light fixtures onto Clemco roof panels with light-fixture cutouts. The process may also be used with blast room wall panels using the same fixtures.

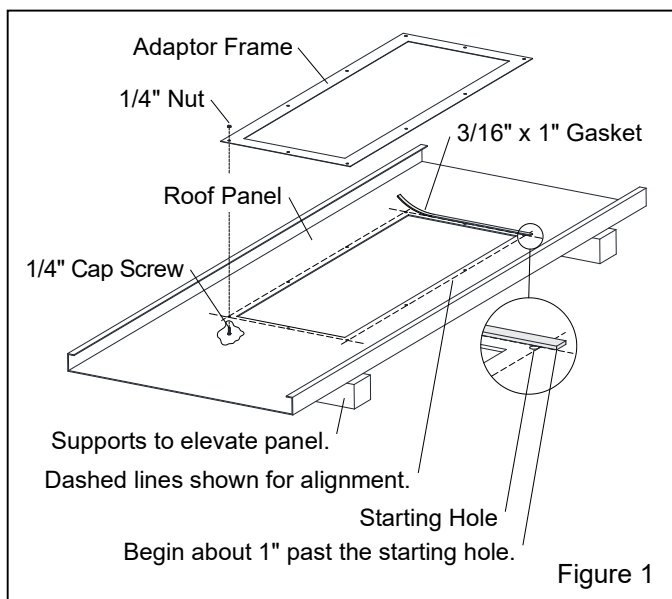
1.1.2 Light-fixture manufacturer's installation instructions and mounting hardware are included in the box containing the light assemblies. Always refer to the manufacturer's instructions before installing the fixtures.

2.0 Attach Adaptor Frames to Panels – Figure 1

NOTE: It is easier to install adaptor frames to roof panels before the panels are raised and attached to the wall panels.

2.1 Place 4" to 6" supports on a bench or another suitable surface to raise the panels off the surface. Lay a roof panel, flange side facing up on the supports, as shown in Figure 1.

2.2 Cut a 22" long length of the 3/16" x 1" strip gasket (Stock No 00186) from the roll provided. Remove several inches of the adhesive backing and adhere the gasket to the top of the roof panel, placing it on the outside edge of the mounting holes, as shown by the dashed line in Figure 1, and about 1" past the starting hole, as shown. **Note: The gasket can be started on any side of the panel cutout.** Remove additional backing as needed while firmly pressing the gasket to the panel to bond. Cut end of the gasket about 1" past the ending hole.



2.3 Repeat the process on the remaining three sides of the cutout. Cut all ends square and butt and compress the ends to matting gasket for a tight seal.

2.4 Set the adaptor frame squarely over the cutout, making sure that all edges of the frame are centered, overlapping the gasket, and aligned with the mounting holes.

2.5 Once the frame is in place, install a 1/4-NC serrated cap screw through the bottom of each mounting hole and tighten with 1/4-NC serrated nuts at the top to secure the frame to the roof panel.

2.6 Repeat the process for all roof panels having light cutouts.

3.0 Install a Light Fixtures onto the Roof Panels

NOTE: Some may find it easier to assemble light fixtures (minus lamps and cover lens) to the panels before raising the panels and attaching them to the wall. When doing so, make sure the end of the panel with the power cord is facing in the direction the installer or electrician requires.

Light fixture installation notes:

- Remove the lamps to avoid breakage. Reinstall them after the room is assembled and wiring is complete.
- To avoid breaking the glass cover-lens, do not install the covers until after the room is assembled and lamps are installed.
- When installing fixtures and roof panels, make sure the end of the fixture with the power cord is facing in the planned direction, usually facing toward a junction box.

3.1 Temporarily Assemble a Light Fixture to a Roof Panel

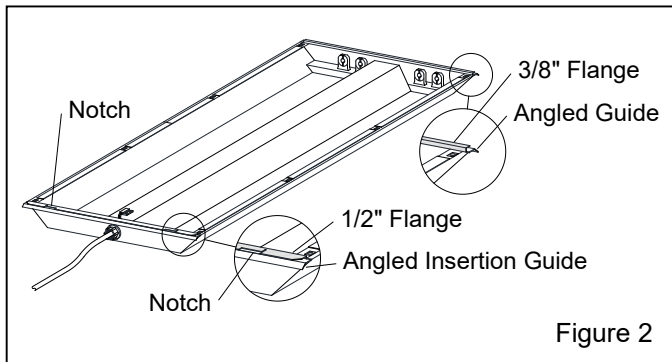
It is suggested that at least one light panel and light fixture be temporarily assembled on a bench or another suitable surface. This step familiarizes the installer with the installation process before raising the roof panel and attaching it to the walls.

Although the instructions in this section is to temporarily install one light fixture in a roof panel, the installer may find it convenient to install all fixtures (less lamps and cover lens) before raising the roof panels and attaching them to the walls. The process is the same whether the fixture is installed before raising the panel or after the panel is attached to the walls.

3.1.1 Place 4" to 6" supports on a bench to raise the panels off the surface. Lay a roof panel, flange side facing down on the supports, as shown in Figure 3.

3.1.2 Unpack the light fixture from the box and remove the cover-lens frame, cover lens, and lamps from the fixture.

3.1.3 Refer to the light-fixture illustration in Figure 2 and identify the ends with the 3/8" and 1/2" flange (the 1/2" flange is the end with the two notches, power cord, and angled insertion guide).

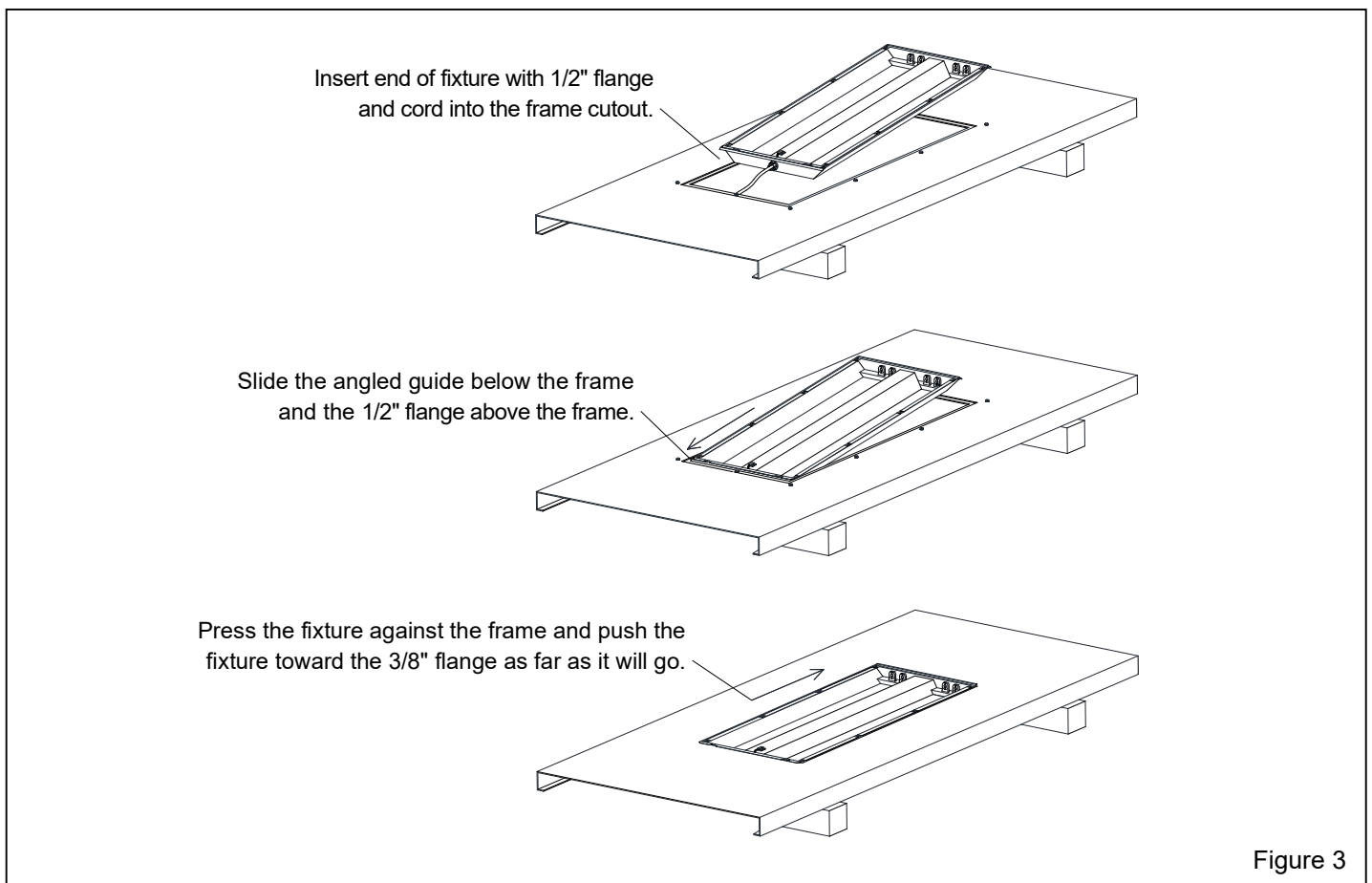


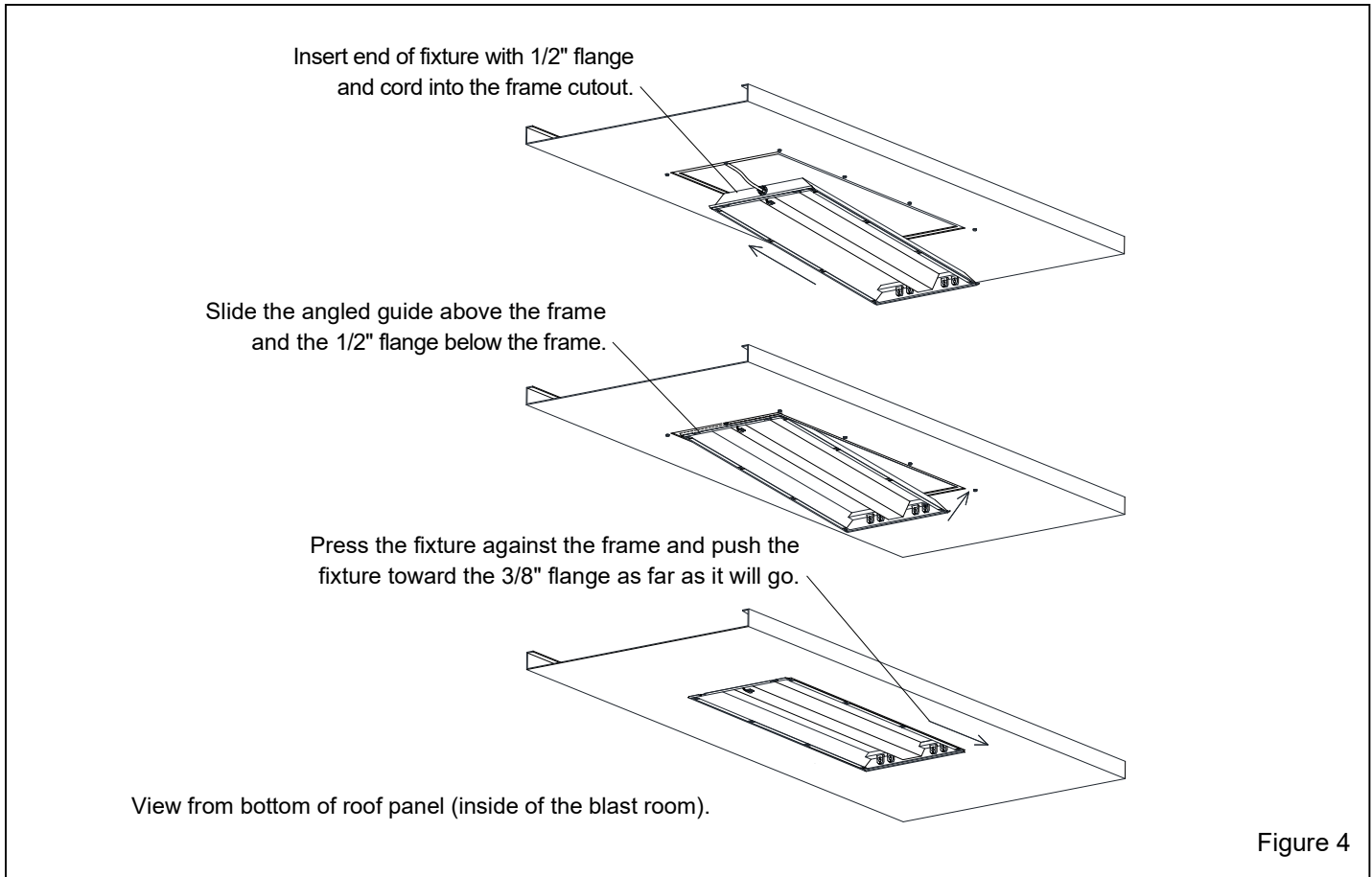
NOTE: Refer to Figure 3 to install the fixture before raising the roof panel; refer to Figure 4 to install the fixture after raising the panel. The process is the same regardless of when the fixture is installed.

3.1.4 Insert the end of the fixture with the 1/2" flange (power cord end) into the cutout, as shown on the upper illustration in Figures 3 and 4. Make sure the end of the panel with the power cord is facing in the direction the installer or electrician requires.

3.1.5 Push the end of the fixture onto the adaptor frame, sandwiching the frame between the angled guide and 1/2" flange, as shown on the center illustration in Figures 3 and 4.

3.1.6 Lower the other end of the fixture and slide the fixture as far as it will go toward the 3/8" flange, sandwiching the frame between the 3/8" flange and angled guide, as shown in the lower illustration in Figures 3 and 4.





3.1.7 Temporarily place the cover lens on the fixture, as instructed in Section 5.0. Do not attach the cover fasteners at this time.

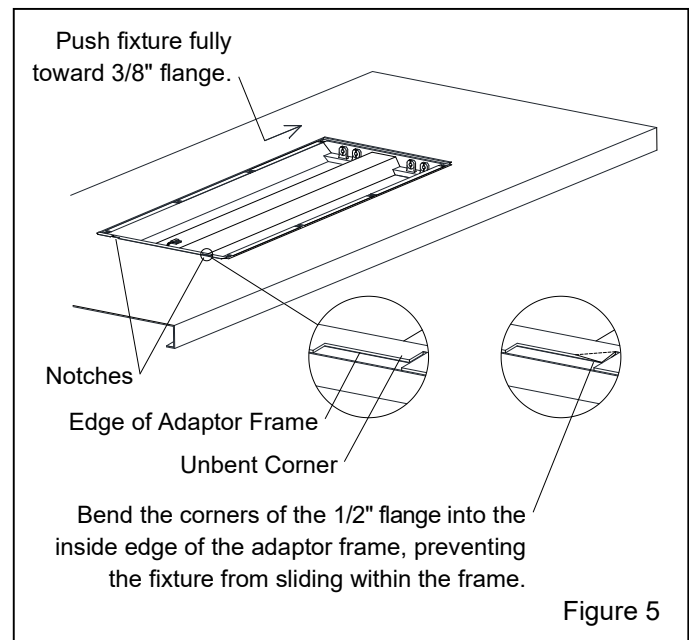
3.1.8 Remove the cover once the installation process is clear.

4.0 Secure Fixtures to Roof Panel

NOTICE

Do not secure the fixture if it is being temporarily installed. Secure the fixture only after the fixture is permanently installed in the panel.

4.1 Note the corners of the two notches on the 1/2" flange, shown in Figure 5. After the fixtures are permanently installed on the panels, bend the corners into the inside edge of the adaptor frame to secure the fixture to the panel, as shown in Figure 5.



4.2 Try sliding the fixture toward the 1/2" flange. If the corner is correctly set, the fixture will not slide.

5.0 Secure Cover-Lens Frame and Lens to Fixture – Figure 6

NOTICE

Before placing the fixture cover onto the fixture, note the position of the proximity switch, which is located on the one end of the fixture's ballast cover, and the position of the magnetic contact, which is located on one end of the cover lens. When installing the fixture cover lens, make sure the contact and switch are opposite one another. The switch is not used in blast room applications. Failure to install the cover lens correctly can break the glass and void the warranty of the cover lens.

5.1 Note the positions of the proximity switch and magnetic contact, as shown in Figure 6, and place the fixture cover onto the fixture so the contact is on the opposite end from the switch.

5.2 The alignment strips on both ends of the cover frame fits into the slots on the fixture, and the side strips fit within the fixture. Some repositioning may be needed to fit the cover to the fixture.

5.3 Align the holes on the cover lens to the mounting holes on the light fixture. After the room is assembled and lamps are installed, use the screws and washers included with the fixture to attach the cover lens.

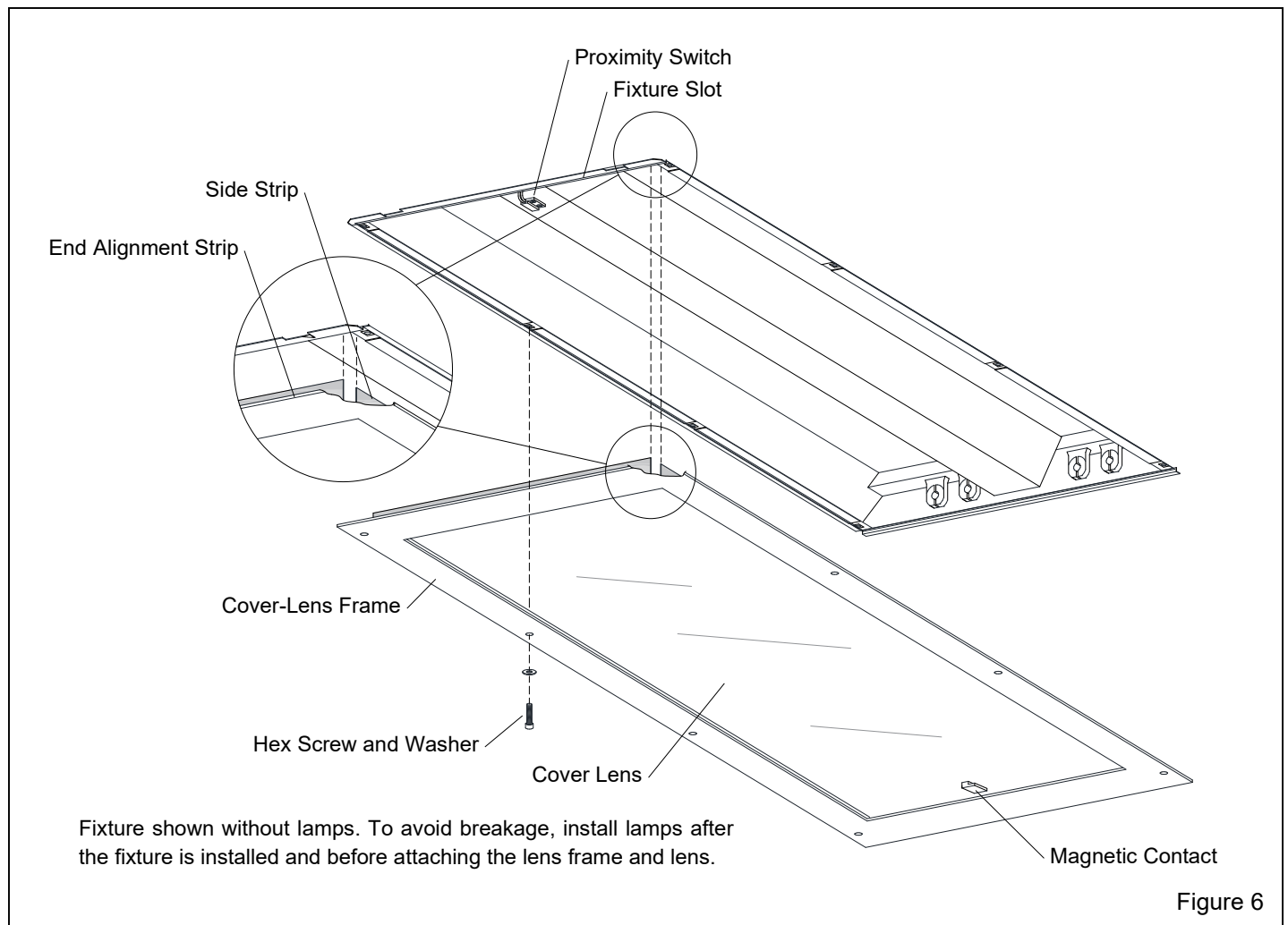


Figure 6