



Enclosure Alterations

A Pentair Company
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Hoffman cannot assure the safety or effectiveness of any alterations or additions not made by Hoffman Enclosures Inc. However, the following information may be helpful. These instructions do not eliminate the need to consult with equipment manufacturers and to observe all regulatory agency procedures and safe practices to assure the proper electrical and mechanical function of Hoffman products in each particular application.

1. REPAINTING

See "Instructions for Repainting Hoffman Standard Paint Finishes", part number 23155002.

2. MOUNTING INSTRUCTIONS

- a. Wall mounted enclosures have either an internal mounting means or external mounting feet. Proper fasteners must be used in all mounting holes to secure the enclosure to the wall.
- b. Floor mounted enclosures have floor stands (legs) which include mounting plates. Proper fasteners must be used in all mounting holes to securely anchor the enclosure to the floor.

3. DOOR CLOSING ADJUSTMENTS

- a. Single door (wall mounted)
If the surface on which the enclosure is mounted is not flat, the door may not open and close properly. Also, if heavy equipment is mounted on a large door, the door may sag slightly. If the top of the door strikes the lip which extends around the body opening, place metal shims behind the mounting foot which is located at the bottom of the enclosure and closest to the door hinge. Place the shims between the mounting foot and the wall or mounting surface. Be sure all mounting screws are tightened securely.
- b. Two door (floor mounted)
The overlapping doors are factory-fitted to meet evenly at the top and bottom. If the floor under the enclosure is not level, the doors will not close evenly. In this case, place metal shims under the corners of the enclosure. The enclosure should be bolted in place with the doors closed to prevent tipping when installing shims. Shims under the right front corner will raise the right door. Shims under the left front corner will raise the left door. It is important that the doors meet evenly to insure a proper seal against liquids and dust. Be sure all mounting bolts are tightened securely.

4. PANEL INSTALLATION

When the interior panel is being installed, it may be necessary to bend one or more mounting studs slightly to permit the panel to fit in place. Simply position the panel on the studs that line up properly and pry the other studs into position with a suitable screwdriver inserted through the panel holes.

5. REMOVING HINGE PINS FROM CONTINUOUS HINGES

This can be a difficult operation requiring one or more people. This procedure is best accomplished by using a small diameter punch to drive the hinge pin toward the bottom of the enclosure. Lay the wall-mounted and floor-mounted or free-standing enclosure on its back side (see note 7 below). When the hinge pin protrudes about two inches below the bottom hinge barrel, bend the end of the pin 180° so it is shaped like the letter "J". Use an electric or air powered vibrating hammer fitted with a tool which has a hole in the end to fit over the hinge pin, and drive the hinge pin out while opening and closing the door. To install the hinge pin, straighten the pin and drive it in with the vibrating hammer while opening and closing the door. Most hinge pins have one end chamfered, so be sure to start the chamfered end first when installing the pin.

6. PRINT POCKET

The print pocket on the door can be inverted or removed entirely.

7. LIFTING ENCLOSURES BY EYEBOLTS

To lift an enclosure which has eyebolts or mounting feet, be sure to use all the eyebolts and top mounting feet provided. Arrange the chains and cables with spreader bars so you are lifting straight up on the eyebolts or top mounting feet.

ACCESSORIES AND HARDWARE

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Lock kits and latch kits are available for field or factory installation on many types of Hoffman enclosures. Lock kits provide key-locking capabilities. Latch kits permit rapid access to enclosure interiors while retaining the oil tight and dust tight features.

Louver plate kits provide ventilation in enclosures where internal heat is a problem.

Floor stand kits for converting wall mounting enclosures to floor mounting are available for field or factory installation on single door NEMA 12 and NEMA 4 enclosures.

Drip shield kits are available for field or factory installation on single door and double door NEMA 12 enclosures.

Electrical interlocks provide a positive internal safety lockout on electrical enclosures while the enclosure contents are energized.

Swing-out panel kits provide a means of mounting gauges, switches, pilot lights and other components near the front of the enclosure.

OTHER HOFFMAN PRODUCTS

- NEMA 1, NEMA 3R, NEMA 4, NEMA 4X, NEMA 9, and NEMA 12 enclosures
- Oil tight JIC boxes and troughs.
- Oil tight wireway and lay-in wireway
- NEMA 1 wireway
- Oil tight pushbutton enclosures
- Cutout boxes, pull boxes, and transformer cabinets
- Non-metallic enclosures
- Stainless steel enclosures and boxes

Safety Lockouts protect personnel and equipment by enabling multiple padlocks to be installed on a de-energized switch.

Touch-up paint is used to repair the finish of enclosures and panels.

Window kits are available for many types of Hoffman enclosures.

Corrosion inhibitors protect interior components of enclosures, wireway, consoles, etc. from corrosion. There are no coatings, oils, or greases to apply.

Hole seals are used to seal extra conduit openings, pushbutton holes, cutouts, etc. against dust, dirt, oil, and water.

Terminal kit assemblies provide an easy method to mount terminal blocks in many types of Hoffman enclosures.

Folding Shelves can be used to support instruments and test equipment.

Pedestals are used to provide floor mounting at a working height for small to medium size enclosures.

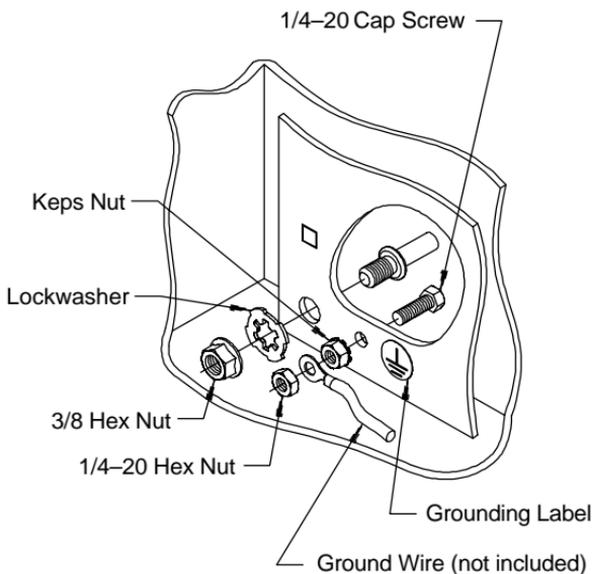
- Aluminum enclosures and boxes
- Console cabinets
- Custom-built enclosures of all types
- Instrument and electronic enclosures
- Environmental control products
- EMI/RFI shielded enclosures
- Wiring duct
- Modified Standard Enclosures
- Co-Developed Enclosures

Installation Instructions For Large Grounding Kit 99411400



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1. Insert the 1/4-20x7/8 bolt through the hole in the panel as shown.
2. Secure bolt with keps nut. The keps nuts must penetrate into the paint to insure electrical continuity.
3. Attach the ground wire and secure with 1/4-20 hex nut as shown.
4. Install the lockwasher under one of the nuts securing the panel to insure grounding between the panel and the enclosure.
5. Attach grounding label included adjacent to the bolt as shown.

Installation Instructions For Large Grounding Kit 99411400

1. Secure keps nut on each ground stud. The keps nuts must penetrate into the paint to insure electrical continuity.
2. Attach the ground wire and secure with the 1/4–20 hex nuts as shown.
3. Attach the grounding labels included adjacent to the studs as shown.

