



Enclosure Alterations

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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

Repainting Hoffman Standard Paint

Check with the paint manufacturer to insure the paint you are applying is compatible with the paint on the Hoffman product.

Hoffman uses the following TGIC polyester powder coating finishes on standard catalog items:

1. ANSI 61 Gray
2. RAL 7035
3. White

Refer to hoffmanonline.com for the specific paint finish of the product that you propose to repaint. When in doubt, consult your local Hoffman distributor.

IMPORTANT: For best adhesion results, correct surface preparation before repainting is essential.

GENERAL: All Hoffman TGIC polyester powder coated finishes can be repainted.

IMPORTANT: For best refinishing results, always follow the specific instructions provided by your paint manufacturer.

1. Surface Preparation: Generally the following surface preparation can be used.
 - A. Thoroughly sand all enclosure surfaces with 180 grit sandpaper. If sanding marks are objectionable, finish sanding with 220 or 240 grit sandpaper.
 - B. Wet wipe all surfaces with a solvent to remove any possible contaminants.
 - C. Apply two or three medium to light coats of paint. Allow two or three minutes flash off between coats.
 - D. Allow paint to cure adequately. Consult with your paint manufacturer for proper cure time and hardness prior to testing the paint for adhesion. Air dry enamels may require significantly longer cure times over some powders.

2. Paints to use: Various types of paint exhibit greater adhesion qualities than others when applied over polyester powder. Below is a list of finishes that exhibit very good adhesion properties.
 - Two-component epoxies
 - Some two-component polyurethanes
 - Alkyd baking enamels
 - To avoid discoloration of alkyd finishes do not bake at temperatures exceeding 150°F.

NOTICE: Always test the repainting process on an inconspicuous area prior to use.