

Enclosure Alterations

Hubbell-Wiegmann cannot assure the safety or effectiveness of any alterations or additions not made by Wiegmann. 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 Hubbell-Wiegmann products in each particular application.

1. CUT OUT AND PUNCHING HOLES

a. All cutouts and punching of holes must be free of burrs and sanded smooth for proper fit of accessories.

b. All holes/ bare metal must be painted to prevent rusting of the steel, ensure the U.L. rating of the enclosure, and to maintain the integrity of the enclosure finish.

2. REPAINTING

Contact Hubbell-Wiegmann for the proper replacement, touch up paint.

3. 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.

4. 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.

5. PANEL INSTALLATION

During sub panel installation, it is the customer's responsibility to



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A Division of Hubbell Incorporated (Delaware)

501 West Apple Street
Freeburg, IL 62243
Phone: 618-539-3193
Fax: 618-539-5794

support enclosure door (ref: while enclosure is on back, and door is in the open "horizontal" position).

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 adjust the other studs into position with a suitable screwdriver inserted through the panel holes.

a. When installing a Swing Panel, make sure adequate space is provided from the door, to ensure panel swings freely with no obstruction and to ensure that the enclosure door will close and seal properly.

6. 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.

7. PRINT POCKET

The print pocket on the door can be mounted in any location or position using the self adhesive strip, or removed entirely.

8. 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. Eyebolts are used for lifting, shipping, and moving purposes. It is the customer's responsibility to ensure that lifting eyes are tightened to maintain proper seal/NEMA/and UL rating (factory installed rubber washers must be used).

ACCESSORIES AND HARDWARE

Hubbell-Wiegmann cannot assure the safety or effectiveness of any alterations or additions not made by Wiegmann.

Lock kits and latch kits – Are available for field or factory installation on many types of Wiegmann 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 – Are used to provide ventilation in enclosures where internal heat is a problem.

Floor stand kits – Are used for converting wall mounting enclosures to floor mounting. They 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.

Safety lockouts – Protect personnel and equipment by enabling multiple padlocks to be installed on a de-energized switch.

Touch-up paint – Used to repair the finish of enclosures and panels. (Call Wiegmann for correct paint.)

Window kits – Are available for many types of Wiegmann enclosures.

Corrosion inhibitors – Are used to protect interior components of enclosures, wireway products, consoles, etc. from corrosion. There is no need to apply coatings, oils, or grease.

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

Terminal kits – Used to provide an easy method to mount terminal blocks in many types of Wiegmann 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.



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PRODUCT

- NEMA 1, NEMA 3R, NEMA 4, NEMA 4X, NEMA 12, and NEMA 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
- Aluminum enclosures and boxes

- Console cabinets
- Custom-built enclosures of all types
- Instrument and electronic enclosures
- Environmental control products
- Wiring duct
- Modified standard enclosures

NOTICE!

To maintain the environmental integrity of this enclosure, Hubbell-Wiegmann N412 Mounting Foot Kits must be purchased and installed.

Catalog Numbers:

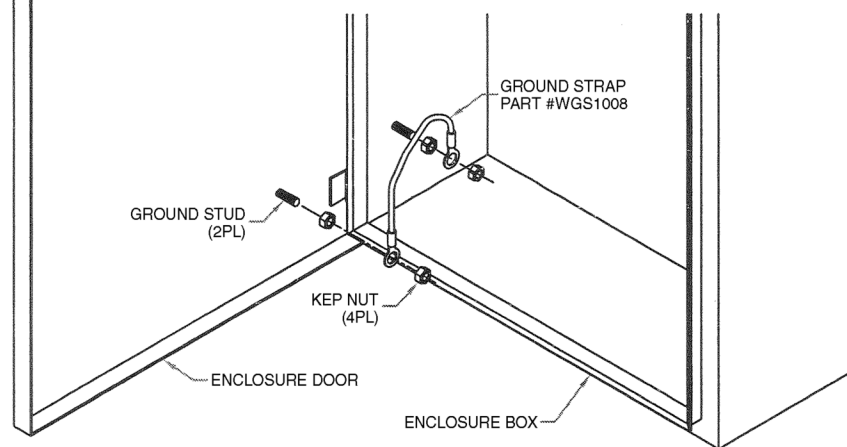
For SST Enclosures: Cat. No. N412MFKSS

For Steel Enclosures: Cat. No. N412MFK

Mounting Foot Kits are sold separately and can be ordered from your local electrical distributor.



GROUND STRAP INSTALLATION INSTRUCTIONS



IN ORDER TO MAINTAIN CONTINUITY BETWEEN THE ENCLOSURE DOOR AND ENCLOSURE BOX, A GROUND STRAP KIT (PART #WGS1008) MUST BE INSTALLED.

WGS1008 KIT CONSISTS OF:

- 1 PC. 10 GAUGE WIRE (GREEN) WITH 1/4" AMP RING TERMINALS ON EACH END.
- 4 PC. 1/4 - 20 STAINLESS STEEL KEP NUTS.

INSTRUCTIONS:

1. PURCHASE A WIEGMANN GROUND STRAP KIT #WGS1008.
2. PLACE ONE KEP NUT ON EACH GROUND STUD AND THREAD THE NUT DOWN THE STUD UNTIL THE NUT CONTACTS THE ENCLOSURE.
3. SLIDE EACH END OF THE GROUND STRAP OVER THE GROUND STUDS ON THE ENCLOSURE DOOR AND BOX.
4. PLACE ONE KEP NUT ON EACH GROUND STUD WITH THE TEETH FACING THE GROUND STRAP AND TIGHTEN SECURELY WITH A WRENCH.