

## 20 Amp Explosion Proof Outlet Assembly Instruction Manual

Do not attempt operation until you are familiar with all warnings, precautions, and procedures outlined within this instruction sheet. Read carefully before operating. Retain these instructions for future reference.

### WARNING:

USER SHOULD BE TRAINED IN THE PROPER USE AND MAINTENANCE OF THIS DEVICE. WHEN CONNECTED TO A POWER SOURCE IN HAZARDOUS AREA, PLUG AND MATCHING RECEPTACLE MUST BE SUITABLE FOR HAZARDOUS LOCATION INVOLVED.

IMPROPER USE OF THIS DEVICE CAN LEAD TO SERIOUS INJURIES OR DEATH TO PERSONNEL.

### PERIODIC INSPECTION OF THE RECEPTACLE IS NECESSARY.

ROUTINELY CHECK ATTACHED CORDS FOR CUTS, BREAKS, OR ANY SEVERE ABRASIONS, AND IF ANY ARE FOUND, THE CORD MUST BE REPLACED BEFORE RESUMING USE OF THE UNIT.

ELECTRICAL POWER SUPPLY MUST BE "OFF" BEFORE AND DURING INSTALLATION AND MAINTENANCE. INSTALLATION AND MAINTENANCE PROCEDURE MUST BE PERFORMED BY A TRAINED AND COMPETENT ELECTRICIAN.

IF ANY PARTS OF THE RECEPTACLE OR PLUG APPEAR TO BE MISSING, BROKEN, OR SHOW SIGNS OF DAMAGE, DISCONTINUE USE IMMEDIATELY. REPLACE WITH THE PROPER REPLACEMENT PART(S) BEFORE CONTINUING SERVICE.

## INSTALLATION

### ELECTRICAL WARNING

Electrical power supply must be "OFF" before and during installation and maintenance. Failure to do so may result in serious or fatal injuries due to electrocution.

### Note: Use minimum #12 copper or copper clad building wire

Mount receptacle back box in desired location. Take out the four screws and remove receptacle from box to be wired. Pull in power source wiring to the box, making sure wire leads extend out of box far enough for proper connections to be made. Receptacle assembly comes preconfigured in the selected Termination, Voltage, and NPT Size.

Strip insulation from power lead ½". Connect power leads to receptacle terminals. Wiring must comply with applicable local codes and match voltage on product label.

To make connections, loosen wire screws, slide stripped end of wire into contact and tighten wire screw to 20 in-lb torque

Apply a thin film of lubricant (supplied with receptacle) to the flange. Reinstall receptacle on the flange and tighten four mounting screws provided to 30 in-lb torque. Receptacle assembly is now complete and power may now be turned on.

## CAUTION

The mating flat flange surfaces on both receptacle and back box are explosion-proof surfaces. Surfaces are not to be scratched and MUST be clean and flat before assembly. Gaskets, paint, or any other similar material must NOT be used in this joint.

## RECEPTACLE OPERATION

The receptacles are dead-front construction. Electrical connection between it and plug is accomplished after plug fully inserts into receptacle and rotated clockwise.

1. Lift receptacle door and locate polarization on mating plug pin and receptacle face. Insert plug straight all the way into receptacle until it cannot go further.
2. Rotate plug clockwise limit (37°), this closes internal contacts and completes circuit. This also mechanically locks plug into receptacle so it cannot be pulled out.
3. To remove plug, push plug inward and turn to counterclockwise, pull plug straight out.

## MAINTENANCE:

Electrical and mechanical inspection of all components must be performed on a regularly scheduled basic, determined by the environment and frequency of use. It is recommended that inspection be performed a minimum of once a year.

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**WARNING: IF ANY PARTS OF THE RECEPTACLE OR PLUG APPEAR TO BE MISSING, BROKEN, OR SHOW SIGNS OR DAMAGE, DISCONTINUE USE IMMEDIATELY. REPLACE WITH THE PROPER REPLACEMENT PART(S) BEFORE CONTINUING SERVICE.**

### **During the inspections, perform the following steps:**

1. Inspect all contact wire terminals for tightness and re-torque if necessary. NOTE: Discoloration due to excessive heat is an indicator of potential issues and should be thoroughly investigated and repaired as necessary.
2. Explosion Proof Plugs: Check grounding and bonding for correct installation. Secure connections and torque if necessary.
3. Check gaskets for deterioration and replace if necessary.
4. Clean exterior surfaces to ensure the nameplates remain legible.
5. Inspect cable grip tightness to ensure proper cord/cable gripping.
6. Torque all screws as described in the "Installation" section before reusing the device.
7. Inspect all parts and replace those which are broken or excessively worn.
8. Check the contacts for signs of excessive arcing or burning and replace if necessary.

## USE AND CARE

Unauthorized modification may impair the function and/or safety of the Outlet Box and could affect the life of the equipment. Always check damaged or worn out parts before using the unit. When Outlet Box is not in use, store it in a secure place. Inspect for good working condition prior to storage and before re-use.

Should further information not covered by these instructions be required, please contact Larson Electronics at 1-800-369-6671 or [sales@larsonelectronics.com](mailto:sales@larsonelectronics.com) for further assistance.

Please visit [LarsonElectronics.com](http://LarsonElectronics.com) for **Warranty** and **Return** information.