Larson Electronics, LLC.
9419 US-HWY 175
Kemp, Texas 75143 USA

INSTALLATION, OPERATION & MAINTENANCE DATA SHEET

20/30/60 Amp Plugs & Receptacle Assemblies
(2 & 3 wire and 3 & 4 pole configurations)

READ THIS SHEET CAREFULLY BEFORE BEGINNING INSTALLATION.

IMPORTANT: Before installing, check your carton label and product nameplate to be sure you have the correct type. Be sure power is turned OFF before starting installation.

Notice: For plugs with terminals that require Soldering, **Do Not Crimp**. Receptacles have leads for wire nuts.

Notice: Inspect and clean the machined flange (flame path) surfaces of both the receptacle and the backbox. Surfaces must be smooth, free of nicks, scratches, dirt, or any foreign particle build-up that would prevent a proper seal. Surfaces must seat fully against each other to provide a proper explosion-proof joint. Clean surfaces by wiping with a clean lint-free cloth. It is optional to apply a light coating of "LUBG" lubricant to flange surfaces to help prevent corrosion.
NOTE: Once assembled, the overall Class rating shall be that of the lowest rated device.

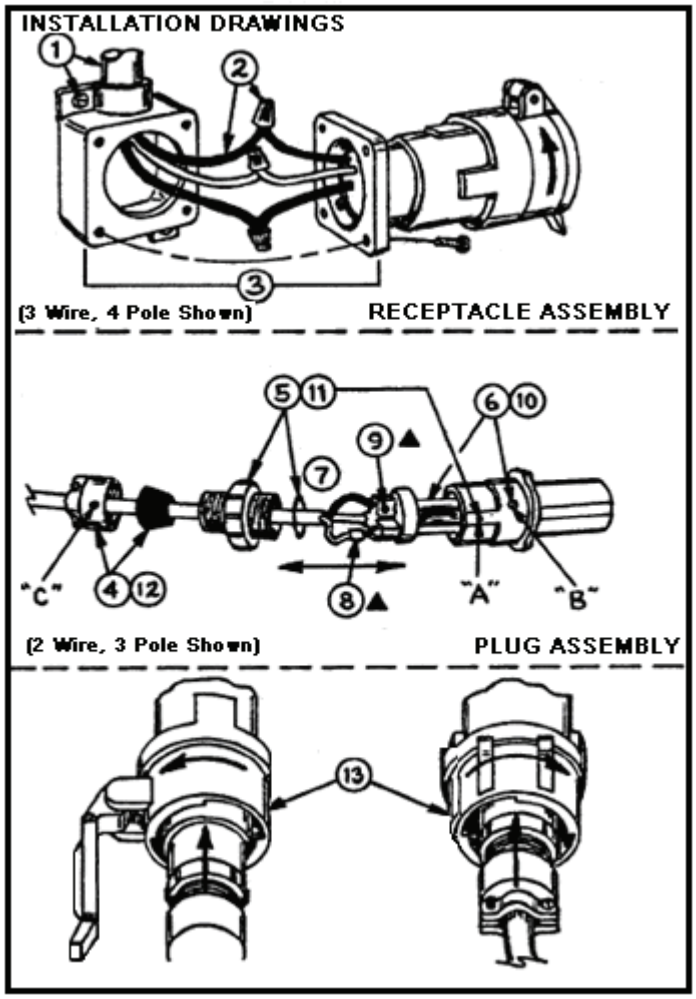
DIRECTIONS FOR INSTALLATION

Receptacles:

1) Securely mount the receptacle box in a suitable location, and attach the conduit as required.
2) Pull the supply wire through the conduit system and into the receptacle box. Strip the receptacle leads as required and connect to the supply leads with wirenuts or other suitable means.
3) Mount the receptacle assembly to the backbox and secure the assembly. Tighten all cover bolts. Use only those bolts supplied. The clearance at the joint shall be less than 0.0015 in. and such that a 0.0015 in. feeler gauge does not enter the joint more than 1/8 in. at any point. Rotate hinged cap (30/60 amp series) to clockwise stop for proper orientation.

Plugs:

4) Unscrew the clamp/grommet from the plug cap and slide them onto the equipment cable.
5) Remove the set screw "A" from the plug assembly, unscrew the plug cap and remove the clamp washers (if used).
6) Remove the set screw "B" and pull the ground strap and contact assembly from the back of the plug body.
7) Strip the cable jacket as required and strip the individual wires per the strip chart on the back of this sheet.
8) Secure the ground wire to the ground contact.
9) Solder the remaining wires to contacts. Be sure to maintain the proper color-code pattern for the wires to provide correct polarity in the system for the area used.
10) Slide the contact assembly (with ground strap) back into the plug body and replace screw "B" to secure them.
11) Replace the plug (and clamp washers, if used) and secure with set screw "A".



12) Replace the clamp/grommet unit and secure the cable by tightening the two (2) clamp screws and secure with set screw "C".

13) (30/60 amp series) Rotate the hinge cap to the counter-clockwise stop position and push the plug halfway in. Rotate the hinged cap 90° clockwise and push th e plug all the way in.

When all parts of the system are connected, turn the power ON and test the system.

Note: All installations must comply with applicable local and/or National Electrical Code.

OPERATIONAL DATA

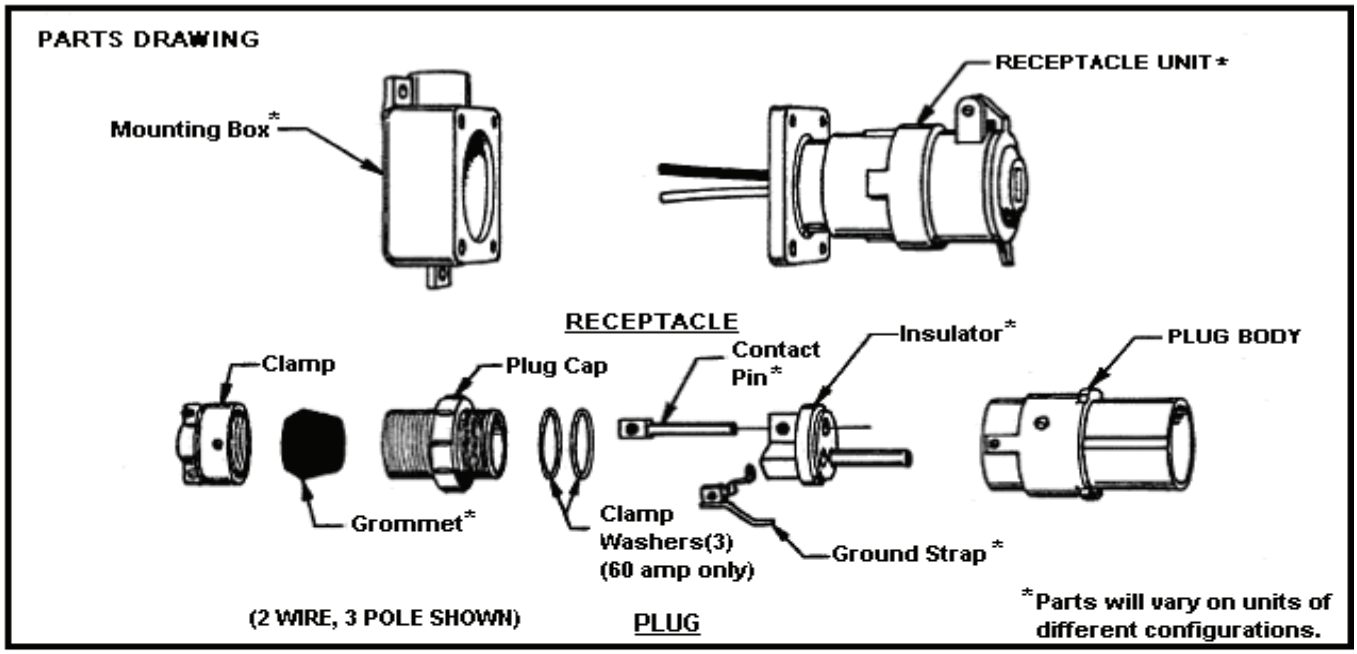
These plugs and receptacles are designed for quick disconnect from the power source and for general distribution of secondary electrical power. Be sure to use these assemblies only within their rated limits. Also, make sure that a consistent wiring pattern is maintained, to provide correct polarity for the system and eliminate the possibility of equipment damage and/or injuries to persons using the equipment.

MAINTENANCE DATA

These plugs and receptacles require no maintenance other than a periodic check for damage. Refer to the parts drawing below for a general breakdown of parts. Some plug parts are available for replacement as subassemblies. However, since the receptacle is potted it must be replaced as a complete unit. Consult your distributor or the factory for parts availability, giving complete catalog number of your assembly.

NOTE: REMEMBER TO SAVE ONE OF THESE SHEETS FOR MAINTENANCE PERSONNEL

PARTS DRAWING



WIRE STRIP CHART

AMP RATING	WIRE SIZE RANGE	STRIP DIM.	STRIP GAGE
30	#10 --- #8	1/2"	
60	#6 AND #4	5/8"	

MAINTENANCE MANAGER:
Please record the following information for your record.

COMPLETE CATALOG NO. _____

INSTALLED BY _____

DATE OF INSTALLATION _____

Technical information, advice and recommendations contained in this document are based on information that Larson Electronics believes to be reliable. All the information and advice contained in this document is intended for use by persons having been trained and possessing the required skill and know-how and to be used by such persons only at their own discretion and risk. The nature of these instructions is informative only and does not cover all of the details, variations or combinations in which this equipment may be used, its storage, delivery, installation, check out, safe operation and maintenance. There are no warranties, expressed or implied, except that all goods shall conform to their description, subject however to commercial tolerances and variations.