

# INSTRUCTION SHEET FOR ELECTRO-RAIL®

## 5AMP AND 15AMP TROLLEYS

### Application

ELECTRO-RAIL® is an all-purpose electrical trolley busway system designed to serve all of your distribution needs. Its ease of operation and versatility make it perfect for all of your flexible power requirements. Track systems can be designed to coincide with your manufacturing, fabrication or test line needs, providing a continuous power supply for your mobile machinery or test equipment. Redeployment of machinery tools and lighting is made easily. No longer is it necessary for expensive running of hard wire systems or hazardous cords stretched across the work area.

ELECTRO-RAIL® 'E60' 2 and 3 pole systems have:

- Track rating: 60 amperes (continuous); 90 amperes (intermittent).  
Trolleys rated 5, 15, or 20 amperes (continuous)
- Track — 300 volts.

### Recommended Tools

|               |                |
|---------------|----------------|
| Cable Cutters | Screw Drivers  |
| Ohmmeter      | Wire Strippers |
| Torque Wrench |                |

Select Cable size from table according to ampere rating of device.

|                 |    |    |
|-----------------|----|----|
| AMPERE RATING   | 5  | 15 |
| CABLE SIZE AWG. | 18 | 14 |

Establish a wiring pattern so the same colored wire is put in the same terminal on all trolleys in the system. Trolleys are polarized so that they will enter the track casing only one way.

### WARNING!

All wiring should be done in strict accordance with the NEC. Consult National and Local Codes for requirements in your area.

### ELECTRICAL TESTING

Do not connect to power until the following electrical tests have been performed.

1. Make continuity checks of wiring with Ohmmeter to verify correct phasing and grounding connections.
2. Check insulation resistance to be sure system does not have any short circuits or unwanted grounds.

Connect all devices in the system, turn the power on and test the system.

### For Trolleys with Cabinets and Fuse Box

1. Strip cable jacket 1½ inches and conductors ½ inch.
  2. Open door on terminal box. Slide supply cable through cable clamp and into box.
  3. Loop stripped ends of supply wire in clockwise direction, under head of terminal screw according to established wiring pattern. Tighten terminal screw down over wire to specified torque value.
  4. To insure a proper ground, attach ground wire to the ground screw inside the terminal box. Tighten to a torque of 20 lbs/in.
- NOTE:** Consult National and Local Codes for requirements in your area.
5. Secure cable clamp around supply cable.
  6. Install proper fuses and close door.

### Maintenance

Inspection of electrical equipment used in industrial and heavy use situations must be conducted regularly to ensure proper function and safety.

Check for the following during inspection:

1. Unsecured contact wire terminals
2. Cracked or broken housings
3. An unfastened or loose ground conductor
4. Deteriorated or misplaced gaskets
5. Loose or missing screws.

### WARNING!

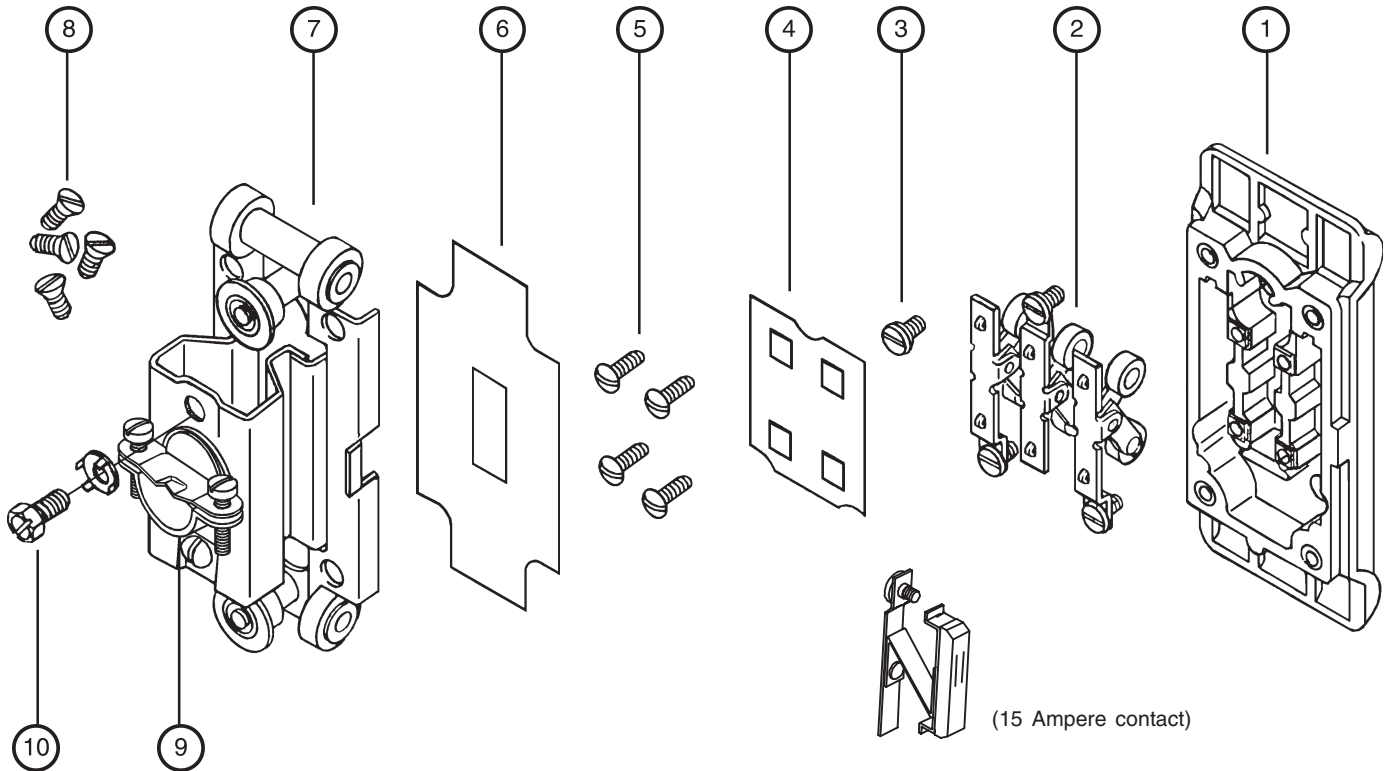
If any part of the plug, receptacle or connector appear to be missing or damaged, **DISCONTINUE USE IMMEDIATELY** replace with factory replacement parts only before continuing use

## ELECTRO-RAIL®

### P.O. Box 24200

### St. Louis, MO 63130

# 5 AND 15 AMPERE TROLLEYS



1. Place trolley on flat surface with trolley body #1 facing down.
 

**NOTE:** For replacement of contacts #2 follow all steps while omitting steps 6 and 7. For wiring of trolley, go to step 6.
2. Remove four #5 insulator screws from trolley body #1.
3. Remove insulator #4 and contacts #2 from trolley body #1.
4. To Reassemble, insert contacts #2 into trolley body #1 making sure that contacts extend through the body, they sit flat, and that terminal screws #3 are properly aligned with holes in trolley body #1.
5. Place insulator #4 over contacts #2. Make sure side notches in insulator line up with contact terminal screws #3. Press downward on insulator, while making sure that contacts are sitting properly in trolley body #1. Install insulator screws #5 and tighten.
 

**NOTE:** Do not over-tighten.
6. Strip supply cable jacket 1½ inches and conductors ½ inch.
7. Remove liner #6 and four chassis screws #8 from plastic bag.
8. Slide cable through cable clamp #9 on chassis #7 and through liner #6.
9. Loosen terminal screws #3.
 

**NOTE:** Markings in trolley body #1 near terminal screws #3 indicate proper wiring orientation.
10. Loop stripped ends of supply wire in clockwise direction, under head of terminal screw according to established wiring pattern. Tighten terminal screw down over wire to a torque of 20 LBS-IN.
11. Slide chassis #7 and liner #6 over cable and place on trolley body #1 by lining up notch in chassis with tab on trolley body.
12. Install chassis screws #8 and tighten securing chassis to trolley body.
13. Secure cable clamp #9 around supply cable.
14. Grounding of equipment can be made by attaching ground wire to the ground screw #10 on the bottom of chassis #7.
 

**NOTE:** Consult National and Local Codes for requirements in your area.