

ROLL RITE, GLADWIN, MICHIGAN



A Safe Fleet Brand

Single Pole 2 gauge Trailer Plug Installation Guide

Installation Requirements and Instructions for
Single Pole Trailer Plug Set (12610 & 12620)

1 Safety Requirements



Failure to comply with requirements outlined in this document may result in serious injury or property damage

The following requirements shall be met when installing or servicing electrical components in Roll Rite Automated Tarp Systems:

All connections to vehicle battery systems, vehicle battery chargers, and external power supplies shall be disconnected during all installation procedures

Prior to installing wiring on positive terminals, check voltage on all wires and connection points using a voltmeter.

The following personal protective equipment shall be worn at all times while installing components:

Safety Glasses or Prescription Glasses with Side Shields

Steel or Composite Toe Protective Shoes

2 Tools and Equipment Required for Installation

The following tools are required for the installation of a Trailer Plug Kit

- Wire Cutters of appropriate size for cutting up to 2AWG size wire
- Wire Insulation Stripping Tools appropriate for stripping wire size range from 2 to 8 AWG
- Wire Crimping tool and/or soldering equipment for 2AWG wire and terminals
- Multi-meter with DC voltage measurement capability
- Flat blade and Phillips head screwdriver
- Tie Straps
- Vehicle Chassis Wiring insulated c-clamps capable of anchoring 2 to 8 AWG wiring

3 Vehicle Battery Connection Requirements

3.1 Main Power to Roll Rite System

- The Voltage Line to Hydraulic Power Unit shall be connected directly to the vehicle battery system.
- The Voltage Line shall include an in-line Roll Rite supplied manually resettable circuit breaker. The circuit breaker shall be no greater than 6 inches from the positive terminal of the vehicle battery system
- Main Power and Ground Connection through a power distribution box are forbidden

3.2 Main Ground to the Roll Rite System

- Ground line to the Pump shall be connected directly to the negative terminal of the vehicle battery system
- Battery terminals shall be coated with dielectric grease to prevent corrosion
- An appropriate ring terminal or battery terminal is required to be used at the vehicle battery connection.
- Protective Rubber Boot installed



- *Failure to properly follow all requirements may result in present or future damage to your Roll Rite Tarp System and its components.*
- *Care must be taken to prevent contact between battery supply terminals and conductive surfaces of the chassis.*
- *Care must be taken to ensure proper Battery Power polarity is maintained when connecting electrical power to the Roll Rite Tarp System*
- *Care must be taken to ensure Battery Power connections meet the following:*
 - *Connected only with the supplied fasteners to the correct torque (when specified) to prevent a loose, high-resistance connection*
 - *Strain relieved to prevent wire torque and vibration from loosening connection*
- **Failure to comply may result in excessive heat in the connection due to high resistance**

4 Installation

4.1 Trailer Side



Figure 1



Figure 2



Figure 3



Figure 4

- Crimp and/or solder **Red** 2 gauge Power Wire to Ring terminal (**Figure 2**)
- Crimp and/or solder **Black** 2 gauge Power Wire to Ring terminal(**Figure 3**)
- Install Protective Boot over **Red** 2 gauge power wire (**Figure 4**)

4.2 Tractor Side

Route Battery Power (+) wiring from the system circuit breaker and Ground (-) wiring from Battery Ground terminal to the Plug Set Socket connector according to **Figure 6**. Take care to properly secure the wiring to prevent motion do to vibration\operation. **DO NOT MAKE CONNECTIONS WITH BATTERY AT THIS TIME**



Figure 5



Figure 6

- Route 2 AWG positive wire conductor through wound wire strain relief
- Strip approximately 5/8" of insulation off of both Battery Cable Power (+) and Ground (-) conductors.
- Insert stripped copper wire into appropriate socket terminal in **Figure 6**
- Re-assemble the Conductor Plug. Be sure to tighten the cable clamp screw at the base of the wound wire strain relief.
- Attach ground cable to plug as shown in picture
- Crimp and/or solder Black 2 gauge Ground Wire to Ring terminal (**Figure 6**)
- Install Red 2 gauge Power Wire into Male Plug (**Figure 6**)

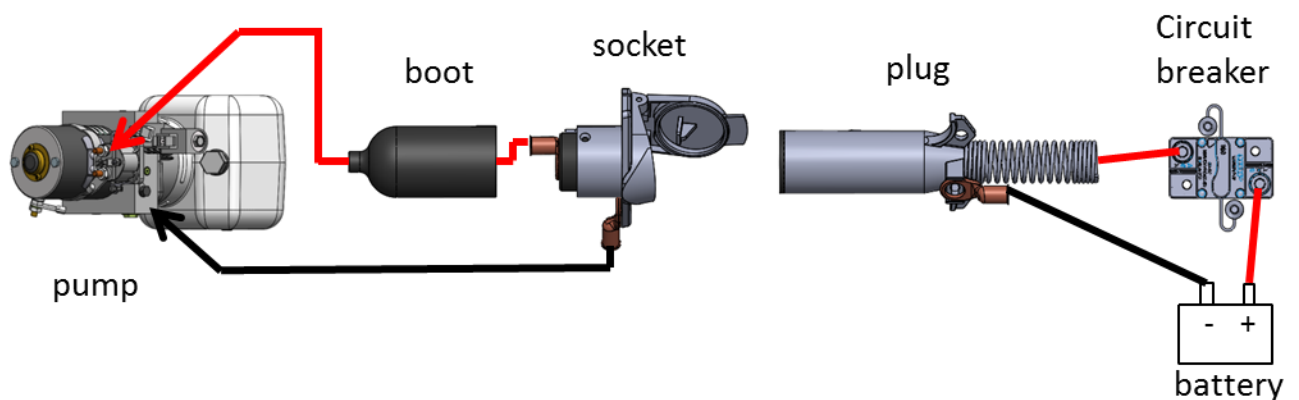


Figure 7: Plug Set Wiring Diagram