SAFETY ALERT SYMBOLS
Safety Symbols alerting you to potential personal safety hazards. Obev ail safety messages following these symbols.

⚠️ WARNING ⚠️ avoid possible injury or death

⚠️ CAUTION ⚠️ avoid possible injury or death

FOR YOUR SAFETY READ ALL INSTRUCTIONS BEFORE INSTALLATION AND OPERATION

Installer: Provide these instructions to the consumer.
Consumer: Keep documents for future reference.

The Atwood Power Jack is a 12-volt DC motor driven screw jack intended for use on recreational type and marine trailers. Patent # D349800. Jack is used to level trailer or raise and lower coupler for hook up to tow vehicle.

FOR YOUR SAFETY READ ALL INSTRUCTIONS BEFORE INSTALLATION AND OPERATION

Installation

1. Block tires of trailer and securely support trailer tongue.
2. The Atwood RV Power Jack is designed to attach to the top surface of an A-frame type tongue having mounting holes typical of the Atwood A-frame couplers FIG 1. Use coupler installation instructions (MPD 87984) if installing coupler. The Marine Power Jack attaches to the side of a straight tongue trailer.
3. A lower support plate must be used for side support of the RV jack on the lower surface of the A-frame FIG 1.

HOLE DIAMETERS:

- Light Weight: 2.02” (MIN) 2.09” (MAX)
- Deluxe / Heavy Duty: 2.20” 2.28”

Note: Hole in lower support plate must align with hole in coupler.

TO ORDER LOWER SUPPORT PLATE:

- Light Weight: Atwood MPD 80263
- Deluxe / Heavy Duty: Atwood MPD 80570

Using a 1/8” fillet weld, No. E6011 AWS welding rod 1/8” diameter, machine amps (AC or DCRP) at 160-180 with 50 volts, weld plate full length on each side to underside of A-frame. The maximum frame height is 6 inches.

4. Place RV jack through holes in coupler and lower support plate, FIG 1-A. Attach with three (3) bolts (3/8” dia. x 5/8” long, grade 5, FIG 1-B. NOTE: Torque bolts to 15 foot lbs. minimum /20 foot lbs. max.

Note: There must be metal to metal contact between jack and coupler. The three mounting bolts with attached star washers must be used. The star washers are designed to remove paint on the surface of jack flange. The bolts also should remove paint from the mounting holes in coupler. If a grounding problem occurs (i.e. no power) check these two surfaces to be sure there is metal to metal contact between jack and coupler. For wiring, see WIRING ILLUSTRATIONS FIG 2 & 3.

5. Attach jack as shown.

OPERATION

6. Route wire lead from motor along trailer tongue to battery. Secure lead to jack housing and trailer frame using cable ties or equivalent.
7. Remove fuse from fuse holder. Connect the wire lead from the jack directly to the positive (+) terminal of the battery. Replace the fuse into the fuse holder. For auxiliary battery, connect lead to auxiliary battery positive (+) terminal so that jack may be used when connected to 115v. For additional wire, use #10 stranded copper wire or larger.
8. After reinstalling fuse, check installation by pressing switch marked “EXT” for jack extension or “RET” to retract the jack.
9. On all power jacks, check utility light by moving switch to “ON” or “OFF”.

MAINTENANCE

10. The Power Jack may come packaged with the Atwood Robofoot. Instructions for installation, operation and maintenance of the Atwood Robofoot are included with the Robofoot. The Robofoot should be installed after the jack is securely attached to the coupler.

- Installation • Operation • Maintenance Effective 2/21/14
Guides are only intended for use on Atwood® products by service technicians who have successfully completed Atwood® training. This guide should be used in conjunction with the appropriate Instruction Manual provided with the product and any applicable industry standards. This is not intended to be a complete list. Please direct questions concerning service of Atwood® products to (866)-869-3118 before proceeding.

**WARNING**

PERSONAL INJURY AND/OR PRODUCT DAMAGE

- If any of the following conditions develop, the trailer must not be used until proper corrective action is taken.

### CONDITION WITH SOLUTIONS

#### MOTOR WILL NOT OPERATE

<table>
<thead>
<tr>
<th>Condition</th>
<th>Solution</th>
</tr>
</thead>
<tbody>
<tr>
<td>No or low voltage</td>
<td>Check battery &amp; electrical connections. Must have minimum of 10 VDC</td>
</tr>
<tr>
<td>Jack flange not making good</td>
<td>Clean paint or dirt from coupler frame contact to provide adequate ground with coupler surface</td>
</tr>
<tr>
<td>Blown fuse</td>
<td>Replace with 30 amp AWG fuse</td>
</tr>
<tr>
<td>Loose wires on ON/OFF switch</td>
<td>Secure wire connections</td>
</tr>
<tr>
<td>Motor faulty</td>
<td>Replace motor</td>
</tr>
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</table>

#### POOR GROUND

- When button is pressed on jack -
  - Inspect motor mounting bolt for Loctite®. If Loctite® found, replace with new 1/4-20 x 3" screw and two lock washers. If bolt unavailable, clean present bolt and hole with wire buffing wheel. Inspect bolt hole. If bolt hole is dirty, clean with a 1/4-20 tap.

#### AMP DRAW

Range of motor: 8-45 amps

### MOTOR CLUTCH ENGAGES

- Normal if jack leg is at fully retracted
  - None, but let go of switch when you hear the clutch or extended position
- Worn worm gear
  - Replace jack ram
- Dirty inner ram tube
  - Clean ram tube and coat with light coat of silicone spray
- Bent inner ram
  - Replace inner ram
- Clutch faulty
  - Replace motor
- Jack at angle
  - Secure mounting bolts and ensure a support plate is used.
- Excessive tongue weights
  - Determine if jack is adequate for tongue weight.

### UTILITY LIGHT DOES NOT WORK

- Loose wires on the ON/OFF switch
  - Secure wire connection switch
- LED not illuminating
  - Replace LED

### IMPORTANT CAUTION

- If equalizer bars are attached to the tow vehicle and the trailer while operating the power tongue jack, you may experience the motor clutching the moment the jack sees load. This will occur because you are lifting both the tongue of the trailer and the rear of the tow vehicle. The 3000 lb power jacks cannot lift this excessive weight. To overcome this excessive weight, you should upgrade to the 4000 lb power jack. The ball screw mechanism utilized in this jack should allow you to lift this load.
# REPLACEMENT SERVICE PARTS

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<tr>
<th>ITEM</th>
<th>3K SHORT</th>
<th>3K STANDARD</th>
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*Buss Type AGC-30 amp fuse

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**ATWOOD POWER JACK LIMITED WARRANTY**

Atwood Mobile Products warrants to the original owner this product will be free of defects in material and workmanship for a period of five years from the date of purchase. Atwood's liability hereunder is limited to the replacement of product, repair of product or replacement of product with a reconditioned product, at the discretion of the manufacturer. The warranty is void if the product has been damaged by accident, unreasonable use, neglect, tampering or other causes not arising from defects in material or workmanship. The warranty extends to the original consumer purchaser of the product only, and is subject to the following conditions:

1. For five (5) years commencing with the date of purchase, Atwood will provide the replacement or repair of any Hardware System and Components that are found to be defective by Atwood in material or workmanship.
2. In the event of a warranty claim, the Original Owner must contact the Atwood Consumer Service Department, 1120 North Main, Elkhart, IN 46514, telephone: 866-869-3118, fax: 574-206-9655. Warranty claim service must be performed as approved by the Atwood Consumer Service Department. Warranty replacement hardware systems and components or parts will be furnished freight prepaid, labor cost to repair or replace will be limited to the amount of the original purchase price of the systems and components. The replaced warranty products or parts become the property of Atwood Mobile Products and must be returned to the Atwood Consumer Service Department freight prepaid, unless prior arrangements have been agreed to.
3. This limited warranty is valid only when the product is applied, installed, maintained and operated in accordance with this Atwood Installation, Maintenance and Operating Manual. Any deviation from these recommended specifications must be approved in writing by Atwood.
4. Any implied warranties are limited to the duration of this limited warranty as stated above. Atwood does not assume responsibility for consequential damage or loss, including loss of use of vehicle, loss of time, inconvenience, expense for gasoline, telephone, travel, lodging, loss or damage to personal properties, or loss of revenues. Some states do not allow limitations on how long an implied warranty lasts or limitations on consequential damages, so the above limitations may not apply to you. This limited warranty gives you specific legal rights which may vary from state to state.
Attachment Hardware (included)

1. **Attachment Hardware (included)**

2. **POWER JACK WIRING ILLUSTRATIONS**
   - BLACK FUSE WIRE W/RED JUMPER
   - WHITE WIRE FROM LED BASE
   - BLACK GROUND WIRE W/BLACK JUMPER
   - RED JUMPER FROM FUSE WIRE
   - GROUND TO MOTOR SCREW AT ASSEMBLY

---

1. **MARINE POWER JACK WIRING ILLUSTRATIONS**

2. **MARINE POWER JACK WIRING ILLUSTRATIONS**
   - BLACK FUSE WIRE W/RED JUMPER
   - WHITE WIRE FROM LED BASE
   - BLACK GROUND WIRE W/BLACK JUMPER
   - RED JUMPER FROM FUSE WIRE
   - GROUND TO MOTOR SCREW AT ASSEMBLY
SAFETY INFORMATION
FOR YOUR SAFETY
READ ALL INSTRUCTIONS BEFORE OPERATING Robofoot™

SAFETY ALERT SYMBOLS
Safety Symbols alerting you to potential personal safety hazards.
Obey all safety messages following these symbols.

CAUTION
avoid possible injury
and/or property damage

CAUTION POTENTIAL PINCH POINT
- Hand or finger injury.
- Do not put hands in the Robofoot™ when extending or retracting.

CAUTION POTENTIAL PINCH POINT
- Hand or finger injury.
- Do not put hands inside the Robofoot™ when placing the tube into the retainer ring slot.

PRE-INSTALLATION:
NOTE: Before Installing Robofoot™, remove any casters or feet on your current jack. Removal procedures will vary by jack manufacturer. Please refer to the instructions provided with the jack for proper removal instructions. If the jack does not have an existing pin-on hole, please refer to the section titled RETROFITTING Robofoot™.

PARTS INCLUDED:
Robofoot™ includes the following parts:

- Robofoot™ Body
- Pivot Casting Ring
- Clevis Pin Hardware Assembly:
  1. Clevis Pin
  2. Cotter Pin
  3. Washers

INSTALLATION
Installation time is approximately 20 minutes

1. Slip the pivot casting ring on the bottom of the jack. The ring should slip snug around the bottom of the jack. (Figure 1)

2. Align the casting ring pins to the Robofoot™ upper slot. Slide the Robofoot™ body on to the casting ring so it seats in the upper pivot ring T-slot. It will be necessary to tilt the Robofoot™ body to fit the pivot casting ring and jack tube into the Robofoot™ body. (Figure 2)
3. Insert the clevis pin through the existing foot holes on the bottom of the jack and through Robofoot™ slide slots. A washer should be installed on each side of the clevis pin. Insert a cotter pin in the hole at the end of the clevis pin. (Figure 3)

RETROFITTING Robofoot™

Use only when the jack does not have an existing pin-on hole or if the existing hole is not aligned in the jack to allow for full and proper actuation of Robofoot™

If the jack does not have an existing hole, it may be necessary to drill them. Robofoot™ includes two pilot-hole guides below the stabilizer plate. The pilot hole guide is shown in Figure 4 with an arrow. (Figure 4)

To use the guide, seat the bottom of the jack flush and tight to the cross member bar as shown. Drill the pilot holes using the guide and remove the jack from the Robofoot™ and finish drilling the hole with a 3/8” drill.

OPERATION

Retract and extend the power or manual jack as described in instructions provided with the jack. When fully retracted, the Robofoot™ will automatically lift to approximately 75° -90°. When fully extended, the Robofoot™ will extend up to 5° to 15° of vertical and will set into place. No additional user operation is necessary.

LOW CLEARANCE OPERATION

In cases where the Robofoot™ cannot be completely retracted due to low clearance areas, the Robofoot™ can be still be used. Retract the Robofoot™ jack and place a block of wood on the horizontal edge of the Robofoot™. This piece of wood should be long enough to support the jack and the jack tube. (Figure 5)

MAINTENANCE

Robofoot™ was designed to withstand a lifetime of normal use with minimal maintenance to the product. Should debris get lodged in any of the moving parts of Robofoot™, it may be necessary to remove the foot from the jack to clean out large debris. No additional lubrication is necessary to improve performance.

Robofoot™ LIMITED WARRANTY

Atwood Mobile Products warrants to the original owner of the Robofoot™ to be free of defects in material and workmanship for a period of two (2) years from the date of purchase. Atwood’s liability hereunder is limited to the replacement of product, repair of product or replacement of Robofoot™ with a reconditioned product, at the discretion of the manufacturer. The warranty is void if the product has been damaged by accident, unreasonable use, neglect, tampering or other causes not arising from defects in material or workmanship. The warranty extends to the original consumer purchaser of the product only, and is subject to the following conditions:

1. For two (2) years commencing with the date of purchase, Atwood will provide the replacement or repair of the Robofoot™ Assembly and Components that are found to be defective by Atwood in material or workmanship.

2. In the event of a warranty claim, the Original Owner must contact the Atwood Consumer Service Department, 1120 North Main, Elkhart, IN 46514, telephone: 866-869-3118, fax: 574-206-9655. Warranty claim service must be performed as approved by the Atwood Consumer Service Department. Warranty replacement hardware systems and components or parts will be furnished freight prepaid, labor cost to repair or replace will be limited to the amount of the original purchase price of the systems and components. The replaced warranty products or parts become the property of Atwood Mobile Products and must be returned to the Atwood Consumer Service Department freight prepaid, unless prior arrangements have been agreed to.

3. This limited warranty is valid only when the product is applied, installed, maintained and operated in accordance with this Atwood Installation, Maintenance and Operating Manual. Any deviation from these recommended specifications must be approved in writing by Atwood.

4. Any implied warranties are limited to the duration of this limited warranty as stated above. Atwood does not assume responsibility for consequential damage or loss, including loss of use of vehicle, loss of time, inconvenience, expense for gasoline, telephone, travel, lodging, loss or damage to personal properties, or loss of revenues. Some states do not allow limitations on how long an implied warranty lasts or limitations on consequential damages, so the above limitations may not apply to you. This limited warranty gives you specific legal rights which may vary from state to state.

Thank you for purchasing the Atwood Robofoot™. This product was designed to provide many years of worry-free service. Every attempt has been made to accurately describe the installation, operation and maintenance of this product. Should you experience difficulty during the installation, operation or maintenance of the product, please call our Service Department. Do not attempt to alter or modify the design of the Atwood Robofoot™.

This manual provides step-by-step instructions to properly install and operate this product. It is important to read and follow all directions carefully.