



LIPPERT  
COMPONENTS®

Formerly  Atwood Mobile Products

LITERATURE NUMBER MPD 87840

# JACK SCREWS FIXED MOUNT JACKS A-FRAME JACKS

## ENGLISH

## •Installation •Operation •Maintenance

Effective 12/11/07

### SAFETY ALERT SYMBOLS

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



#### WARNING

avoid possible  
injury or death



#### CAUTION

avoid possible  
injury and/or property damage

**Installer:** Provide these instructions to the consumer.

**Consumer:** Read and keep documents available for future reference.

**Capacity Definition:** The supporting, or support, capacity is the maximum vertical load that the jack can support.



#### WARNING

#### PERSONAL INJURY / PRODUCT DAMAGE

- Never exceed the rated capacity stamped or labeled on jack tube.
- Jacks must be installed according to instructions provided to ensure safe operation.

## INSTALLATION



#### CAUTION

#### HANDLE MAY INJURE OR DAMAGE PROPERTY

- BEFORE INSTALLATION, JACK HANDLE MUST CLEAR ALL OBSTRUCTIONS WHEN THEY ARE IN USE.
- Install jacks in accordance with provided instructions.



#### CAUTION

#### HAZARDOUS FUMES

- Adequate ventilation must be provided when welding.

### WELDING INSTRUCTIONS

- M.I.G. OR STICK - 5/32" fillet weld minimum.
- M.I.G. WELDING - Use A.W.S. ER 70S-3 or 6 wire or equivalent with a diameter of .035 - .045. The recommended shielding gas mixture is 75% - 95% Argon & 25% - 5% CO<sub>2</sub>.
- STICK WELDING - Use E6011 A.W.S. welding rod or equivalent. Recommended machine settings for specific electrode diameter are as follows: 1/8" electrode set power between 115-130 Amps DC or 5/32" electrode set power between 140-160 Amps DC.

### Jack Screws

Jack screws are jacks with no mounting plates or brackets. Atwood Mobile Products Engineering Department (574-262-2655) must authorize all mounting (except U-Bolt Mounting) of jack screws for each application.

#### WELD-ON APPLICATION:

##### Supporting Capacity 1,000 lbs.

1. Weld jack to backing plate following WELDING INSTRUCTIONS. Weld full length of bracket on both sides.

### Fixed Mount Jacks

Fixed mount jacks are only for use on 3", 4" or 5" frame or channel.

1. Install bolts through top holes in jack bracket and mounting strap, then attach nut and lock washer FIG 1.
2. Position jack on trailer tongue and repeat Step 1 for bolts below trailer tongue
3. Torque to 25 ft. lbs.

### A-Frame Top Mount Jacks- 1,000 - 5,000 lb. Jack Capacity



#### CAUTION

#### COUPLER OR FRAME DAMAGE

- A bottom support plate must be used with all A-Frame Top Mount Jack Screws.

#### BOLT-ON APPLICATION:

1. Use 3-3/8" - 16 UNC Grade 5 bolts to attach A-frame jack mounting plate to coupler FIG 2-A or top support plate FIG 3-A. Torque to 15-20 ft. lbs.
2. Weld top or bottom support plate to trailer frame following WELDING INSTRUCTIONS. Weld completely around support plate to trailer frame FIG 2 & 3-B.

#### WELD-ON APPLICATION:

1. Follow WELDING INSTRUCTIONS and completely weld around A-frame jack mounting plate.
2. Weld top or bottom support plate to trailer frame following WELDING INSTRUCTIONS. Weld completely around support plate to trailer frame.

### MOBILE HOME

#### A-Frame Bottom Mount Jack - 6,000 - 11,000 lb. Jack Capacity

The following installation instructions vary according to the type of coupler mounted on the trailer frame.

#### STRADDLE MOUNT COUPLER (FIG 4)

For complete Atwood Straddle Mount Coupler Installation, Operation, and Maintenance instructions please see MPD 87985.



#### CAUTION

#### PRODUCT DAMAGE

- Straddle mount couplers are to be used only on mobile homes.
- Top and bottom support plates MUST be used with all Straddle Mount Couplers.
- Must use 50° coupler with a 50° A-frame only.
- Must use 60° coupler with a 60° A-frame only.
- Larger beam reinforcements and improved attachments may be necessary for adequate structural capacity.

COUPLER P/N # 83461, 84102 - 50° mount

32,000 lb. CAP.

COUPLER P/N # 83551 - 60° mount

32,000 lb. CAP.

Top Support Plate

P/N #82740 83480 (50°), or 83670 (60°)

Bottom Plate P/N 82672, 83400, 83470, 83511, 84150, 84151, 84160, 84161, 86081

COUPLER P/N # 84140 - 50° mount

40,000 lb. CAP.

COUPLER P/N # 83462 - 50° mount

44,000 lb. CAP.

COUPLER P/N # 84060 - 60° mount

40,000 lb. CAP.

COUPLER P/N # 83549 - 60° mount

44,000 lb. CAP.

Top Support Plate

P/N #83480 (50°), or 83670 (60°)

Bottom Support Plate P/N #82672, 83511, 84150, 84160, 84151, 84161

1. Align bottom support plate so that jack is as far forward as possible, but still clears the edges of the A-Frame members and the top back of coupler. Outside edges of bottom support plate must extend to or past web of beam.
2. Follow WELDING INSTRUCTIONS. Weld bottom support plate to bottom of frame FIG 4 -B.
3. Weld full length both sides and around the corners to inside edges of the A-Frame beam.

- Align hole in top support plate with hole in bottom support plate and weld to A-Frame inside or outside of flanges FIG 4-C.
- Insert jack through bottom support plate and top plate.
- Bolt jack to bottom support plate with two 3/8" - UNC Grade 5 hex head bolts FIG 4-A.
- Torque 3/8" bolts to 15-20 ft. lbs.

| TOP MOUNT COUPLER (FIG 5)  | SAE RATING | MOBILE HOME USE ONLY |
|----------------------------|------------|----------------------|
| COUPLER P/N # 81911, 81915 | 10,000     | 25,000               |
| COUPLER P/N # 88007, 88010 | 10,000     | 25,000               |
| COUPLER P/N # 81912        | 13,000     | 25,000               |

#### Bottom Support Plate P/N #83400

For complete Atwood Top Mount Coupler Installation, Operation, and Maintenance instructions please see MPD 87985.

- Align hole in bottom support plate with hole in coupler FIG 5.
- Follow **WELDING INSTRUCTIONS**. Weld bottom support plate to bottom of frame FIG 5-B.
- Weld full length both sides and around the corners to inside edge of A-Frame beam.
- Insert jack through bottom support plate and coupler.
- Bolt jack to bottom support plate with two 3/8" - 16 UNC x 5/8" long Grade 5 hex head bolts FIG 5-A.
- Torque 3/8" bolts to 15-20 ft. lbs.

#### UNDERSLUNG COUPLER (FIG 6)

For complete Atwood Underslung Coupler Installation, Operation, and Maintenance instructions please see MPD 87985.

**Coupler P/N # 82680, 82681, 82682 13,000 lb. Capacity**

USING TOP PLATE MPD 82740

- Align hole in top support plate with hole in coupler.
- Weld plate to top of frame. Follow **WELDING INSTRUCTION**.
- Weld full length all sides FIG 6.
- Insert jack through bottom of coupler and to support plate.
- Bolt jack to coupler with two 3/8" - 16 UNC x 5/8" long Grade 5 hex head bolts FIG 6-A.
- Torque 3/8" bolts to 15-20 ft. lbs.

## OPERATION



### **WARNING** **PERSONAL INJURY / PRODUCT DAMAGE**

- Never exceed the rated capacity stamped or labeled on jack tube.
- Body and feet must be clear of the trailer tongue when raising or lowering the jack.
- ALWAYS FULLY RETRACT AND/OR SWIVEL JACK TO HORIZONTAL POSITION BEFORE TOWING TRAILER.
- Do not use blocks for additional ground clearance, trailer can tip and fall.
- Replace jack if worn, damaged or not operating freely.

#### Top Wind Jacks

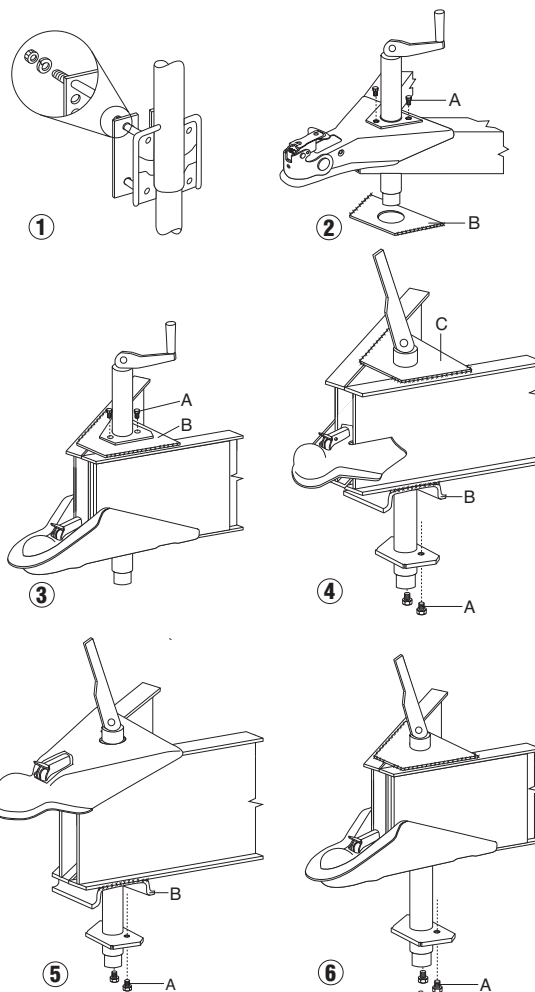
- Pull handle up to horizontal position.
- Turn handle clockwise to raise tongue and counterclockwise to lower.
- Push handle down along jack tube for storage.

#### Side Wind Jacks

- Turn handle clockwise to raise.
- Turn handle counterclockwise to lower.

## MAINTENANCE

- Lubricate jack at least every six months in the following manner.
  - Extend jack as far as possible.
  - Lubricate entire length of outside inner ram with SAE 30 heavy oil.
  - Squirt oil in oil hole or grease in grease fitting provided at top of outer ram.
  - Clean dirt, mud or tar from jack.
- For side wind jacks, follow procedure in STEP 1. Then remove clip when applicable and top cover and lubricate gears with wheel bearing grease.
- When lowering jack, always provide footing such as caster wheel or a jack foot beneath jack preventing dirt from entering center of ram.
- Should jack become difficult to operate: remove, clean and oil. Inspect for bent or worn parts. Use only factory supplied parts for replacement. Replace all bent or worn parts.
- If it is not possible to get jack to operate freely, replace jack.



Any jack screw, fixed mount jack or A-frame jack that has a part number starting with a four (4) is a product that has been produced in China.

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Follow proper safety practices. If in doubt, consult a professional RV technician.