



**LIPPERT**  
COMPONENTS®

Formerly  Atwood® Mobile Products

**LITERATURE NUMBER MPD 87860**

## HITCH BALLS

### ENGLISH

### •Installation •Operation •Maintenance

Effective 11/21/07

Safety Symbols alert 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

### FOR YOUR SAFETY READ ALL INSTRUCTIONS BEFORE INSTALLING HITCH BALL

**Installer:** Provide this instruction to consumer.

**Consumer:** Keep documents for future reference.

### INSTALLATION



#### **WARNING**

#### **PERSONAL INJURY & PRODUCT DAMAGE**

- The Atwood Ball is intended to be mounted on a drawbar or hitch platform located at the rear of the tow vehicle.
- Do not weld ball.
- Orient wrench flats parallel to towing direction.

1. Attach hitch ball to a platform no less than 3/8" thick. Refer to **TABLE 1** for maximum platform thickness.
2. Mounting hole must not exceed ball shank diameter by more than 1/16" thick.
3. Attach the drawbar with lock washer FIG 1A and nut FIG-1B supplied with ball. Always use a lock washer and position next to nut.
4. Threaded shank must protrude beyond bottom of nut when tightened.

### OPERATION



#### **WARNING**

#### **PERSONAL INJURY & PRODUCT DAMAGE**

- Do not exceed the lesser of the tow rating of vehicle, hitch, ball, coupler or trailer.
- Only use the hitch ball in conjunction with a socket type coupler matching the ball size.
- Never attach a tow rope, chain, cable or stretch-type elastic rope to ball for towing/pulling purposes.
- Replace ball if signs of cracking or flat spotting wear appear.

Replace at once any damaged or worn towing components if the ball shows signs of cracking or flat spotting.

Check nut tightness every time the trailer is hooked up and at the beginning of each towing day. Tow only if nut is tightened to specified torque see **TABLE 1**.

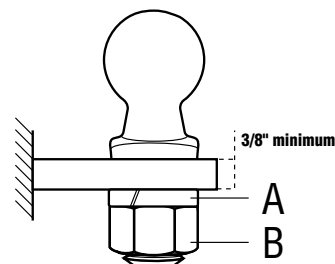
### MAINTENANCE

1. Daily clean and lubricate ball and coupler with bearing grease to minimize wear and friction. Lubricate moving or sliding parts with S.A.E. 30 weight oil. Coupler must not bind on ball.
2. Check towing hitch, ball and coupler for signs of wear and damage each time the trailer is hooked and at the beginning of each towing day. Replace hitch ball if damaged or worn.

**TABLE 1**

| PART #                  | 84137   | 80212   | 80202   | 82551   | 80201   |
|-------------------------|---------|---------|---------|---------|---------|
| BALL SIZE               | 2-5/16" | 2-5/16" | 2"      | 2"      | 2"      |
| *BALL CAPACITY (LB)     | 40,000  | 13,000  | 8,500   | 6,000   | 5,000   |
| TORQUE (FT.LB.)         | 560-600 | 560-600 | 560-600 | 170-200 | 170-200 |
| MAX. PLATFORM THICKNESS | 3/4"    | 3/4"    | 17/32"  | 11/16"  | 11/16"  |

\*The capacity of the ball is the maximum gross vehicle weight of the tow vehicle.



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