Please read these Installation Instructions in their entirety prior to installing or operating this equipment.

This hitch is rated to 30,000 lbs. Gross Towing Weight and 7,500 lbs. Tongue Weight

**Bolt Torque Specifications**
Torque in Foot-Pounds for Inch Bolts

<table>
<thead>
<tr>
<th>Bolt Size</th>
<th>Grade 5</th>
<th>Grade 8</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/4&quot;</td>
<td>10</td>
<td>14</td>
</tr>
<tr>
<td>5/16&quot;</td>
<td>19</td>
<td>29</td>
</tr>
<tr>
<td>3/8&quot;</td>
<td>33</td>
<td>47</td>
</tr>
<tr>
<td>7/16&quot;</td>
<td>54</td>
<td>78</td>
</tr>
<tr>
<td>1/2&quot;</td>
<td>78</td>
<td>119</td>
</tr>
<tr>
<td>5/8&quot;</td>
<td>154</td>
<td>230</td>
</tr>
<tr>
<td>3/4&quot;</td>
<td>257</td>
<td>380</td>
</tr>
</tbody>
</table>

**Bolt Torque Specifications**
Torque in Foot-Pounds for Metric Bolts

<table>
<thead>
<tr>
<th>Bolt Size</th>
<th>Grade 8.8</th>
<th>Grade 10.9</th>
</tr>
</thead>
<tbody>
<tr>
<td>6MM</td>
<td>6</td>
<td>8</td>
</tr>
<tr>
<td>8MM</td>
<td>16</td>
<td>22</td>
</tr>
<tr>
<td>10MM</td>
<td>31</td>
<td>40</td>
</tr>
<tr>
<td>12MM</td>
<td>54</td>
<td>70</td>
</tr>
<tr>
<td>14MM</td>
<td>89</td>
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<tr>
<td>16MM</td>
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<td>230</td>
</tr>
<tr>
<td>18MM</td>
<td>222</td>
<td>318</td>
</tr>
</tbody>
</table>

**WARNING**

Refer to your vehicle's owner's manual for maximum towing capacity. **DO NOT** exceed vehicle, tongue or hitch weight ratings - failure to follow vehicle manufacturer's recommendations could result in damage to your vehicle, personal injury or death.

**WARNING**

Failure to read and follow these instructions could result in separation of the trailer from the truck, causing property damage, loss of towed vehicle, personal injury or death.
WARNINGs

- Trailer brakes are required.
- Always insure there is sufficient clearance between the hitch ball in the stored position and the vehicle’s rear differential.
- Do not use any open flame under the truck bed to cut or weld. There is extreme danger of explosion or fire.
- Vehicle must be securely blocked and brakes set before beginning to work underneath the vehicle.
- Do not clamp hitch over any wiring or brake lines.
- Always make sure trailer is loaded slightly tongue heavy. Do not pull a trailer that is lighter on the tongue end.
- Always insure the hitch ball is locked into the hitch prior to towing.

Maintenance/Care

- Periodically clean any dirt/debris from the ball and ball housing and moderately lubricate them with white lithium grease or equivalent grease.

Instruction Notes: Some drilling and trimming is required.

Place all components that are removed on a flat, sturdy surface. All items will be reinstalled unless otherwise noted after the hitch is installed.

The dimensional variations between otherwise identical vehicles can be considerable. While this hitch was designed for easy installation, it may be necessary to modify the hitch slightly to compensate for vehicle manufacturer’s tolerances.

NOTICE

- When a bed liner is installed, compensation of the bed liner thickness must be accounted for when measuring the ball location in the box bed.
- When using power drills be aware of the dangers of torque and drill bit length.
- When using a reciprocating saw be aware of objects behind the cutting surface.
- Use a good quality paint to spray cut edges of frame to prevent rusting.
- Be sure to use Loctite® Red on all bolts before tightening. Tighten all bolts according to the torque chart provided.
- The installer must instruct the operator on proper ball installation and locking procedures.
- Dealer or installer be certain the user receives these instruction sheets.
- If the hitch is in an accident, it must be replaced. DO NOT use it again! An accident can cause unseen damage and using it again could result in more damage or serious injury. DO NOT use the hitch if it is damaged or missing parts.
## Tools Required

- Torque Wrench
- Drill
- Tape Measure
- Loctite® RED
- 19/32" Drill Bit
- 3/4" Socket
- 3/4" Wrench
- 15/16" Socket

## Important:

Use only genuine factory replacement parts on your hitch. Do NOT substitute homemade or non-typical parts. If a bolt is lost or in need of replacement, for your safety and the preservation of your hitch, be sure to use a replacement bolt of the same grade (in most cases it will be Grade 5, please reference the parts list above). Replacement parts may be ordered through your nearest Blue Ox® Dealer or Distributor. Failing to follow and/or altering these installation instructions in either installation or required equipment will void the manufacturer’s warranty.

## Item No. | Part No. | Description | Qty.
---|---|---|---
1 | 61-7459 | DH2500 Cross Member | 2
2 | 62-3822 | Hitch Ball | 1
3 | 62-3995 | DH2500 Center Section | 1
4 | 101-8639 | DH2500 Support Plate | 2
5 | 102-6772 (not shown) | Washer Plate, 2x2x1/4 | 2
6 | 201-0051 | 1/2"-13 x 1-1/2" Hex Head Bolt, Grade 5, ZP | 16
7 | 201-0275 | 1/2"-13 x 3-3/4" x 2-1/2" U-Bolt, ZP | 2
8 | 202-0064 | 5/8"-11 Hex Lock Nut, ZP | 4
9 | 202-0072 | 1/2"-13 Hex Flange Whiz Lock Nut, ZP | 16
10 | 202-0094 | 1/2"-13 Hex Nylon Lock Nut, ZP | 4
11 | 203-0106 | 5/8" Flat Washer, ZP | 4
12 | 222-0159 | Compression Spring (.05" Dia x .85" x 2") | 4
13 | 250-0264 (not shown) | Ball Housing Plug | 1
1. Attach both cross members to the center section and install the assembly directly over the top of the vehicle frame.

   Note: If a previously installed flatbed sits against the frame, it will be necessary to raise the bed, or cut a section of the bed’s stringers to install this hitch directly above the frame.

2. Position the center of the ball within 6” forward of the axle. If a flatbed is going to be installed on top, be sure that the measurement from the center of the ball to the farthest rear corner of the bed is approximately 72” or less. This corner measurement should also be verified with the consumer’s gooseneck trailer by measuring from the coupler to the closest obstacle on the trailer (usually the jack).

3. Once the position of the hitch is verified, loosely installed the side plates.
4. Determine if any obstacles are obstructing the plate from laying flat against the frame. If there is, remove the obstacles or trim the side plate to go around the obstacle. If a bolt is preventing the plate from lying flat, simply mark the bolt with a paint stick and hang the side plate back over its bolts to mark the plate. Using an iron-worker or drill press, punch/drill a hole large enough to bypass the bolt.

5. Using existing holes in the frame of the truck, mark the side plate from the inside. Center punch and drill ½” holes in the marked areas. If the hole(s) in the frame is substantially bigger, you can choose to enlarge the hole to match in the side plate and substitute the hardware for a larger bolt/nut. Otherwise, install the washer plate on the frame side of the hole and finish off with a whiz nut. Be sure to attach each side plate with a minimum of three bolts per side, use more if available or necessary. If the frame of the truck has no existing holes to utilize, the installer must find suitable locations to drill through on the frame of the truck.
6. Install the side plate and hardware and tighten. Install the safety chain loops, springs, and hardware.
Installing the Hitch Ball

1. Rotate the locking collar to release the latch pawl.

2. Align the ball with the collar and drop the ball into the hitch. Release the locking collar. Pull up on the ball to insure it is locked into the housing.

Removing the Hitch Ball

1. Rotate the locking collar to release the latch pawl. Pull straight up on the ball to remove from the hitch.
Storing the Hitch Ball

1. Rotate the locking collar to release the latch pawl. Align the ball with the collar and drop the ball into the hitch.

2. Release the locking collar.

CUSTOMER SERVICE COMMITMENT

Blue Ox® is committed to providing you with exceptional customer care throughout your lifetime with our products. Our team is here to assist you with any questions you may have regarding the performance of your product. Simply call (402) 385-3051 and you can speak with our customer care team.

Additionally, please visit our website to see which rallies our Destination America team will be attending. For a nominal fee, our service technician will service your towing system to ensure it’s in proper working condition. Also, as a commitment to our customers, should you visit our factory, you can stay at our full service Blue Ox® campground at no charge along with enjoying a factory tour.

Again, thank you for being our customer and for the confidence you have shown in the performance of our products. It is because of customers like you we enjoy the success we have today.