Before you assemble the dolly...

**WARNING**

Read all instructions before assembling or operating the tow dolly. Failure to understand how to assemble or operate the tow dolly could result in property damage, personal injury or even death.

**Musts for installation safety**

1. Assembler must use all bolts and parts supplied as instructed.
2. Assembler and owner must read and understand all instructions and heed all warnings within the owner’s manual and the literature packet before loading any vehicle onto the dolly.
3. Owner must check with and comply with all local, state, federal or provincial requirements regarding tow dollies.

![Image](image.png)

**Axle and ramp positioning chart**

<table>
<thead>
<tr>
<th>Position of axles and ramps</th>
<th>Minimum tread width</th>
<th>Maximum tread width</th>
</tr>
</thead>
<tbody>
<tr>
<td>Axles narrow; ramps narrow</td>
<td>32&quot;</td>
<td>68&quot;</td>
</tr>
<tr>
<td>Axles wide; ramps narrow</td>
<td>32&quot;</td>
<td>68&quot;</td>
</tr>
<tr>
<td>Axles wide; ramps wide</td>
<td>40&quot;</td>
<td>76&quot;</td>
</tr>
</tbody>
</table>

**Required tools**

- torque wrench
- ½" socket
- 9/16" socket
- ¾" socket
- 13/16" socket
- socket wrench
- ½" wrench
- 9/16" wrench
- ¾" wrench

For wide axle assembly...

**Use these instructions ONLY for wide axle assembly**

The wide axle setup is the most versatile, since the ramps can be adjusted to accommodate either narrow or wide vehicles.

**Note:** if the tow dolly axles are changed from wide to narrow, or from narrow to wide, the tow dolly must be realigned. See the section titled “Alignment instructions” in the owner’s manual.

**1A.** Start by opening the box and unloading everything except the main bed of the dolly. Tear the walls of the box down and place solid wooden blocks or stands underneath each side of the frame so that the bottom of the main bed is about eight inches off the ground.

Now, use the “Axle and Ramp Positioning Chart” (above) to measure the overall tread width of the vehicle to be towed, and to determine the position for the axles and ramps.

**2A.** Attach one of the axles – Starting on one side, pull the axle out so the three holes in the top of the axle align with the three holes identified as W5, W6 and W7 in Figure 1. Insert ½" x 4½" bolts with washers through W5, W8 and W9. Install washers and lock nuts on the opposite side. Do not insert bolts through W6 or W7 at this time.

**3A.** Attach one of the ramps –

**CAUTION**

When installing the ramps, use extreme caution not to pinch, crush, cut or otherwise damage the attached wiring or plugs. If electrical components are damaged, they will not function.

Since the axles are being assembled in the wide setting, the ramps can be mounted in either the narrow or wide position.

To attach the ramp at the wide setting, line the ramp holes (as shown in Figure 1) with the main bed holes W1 through W4. With the ramp in position, insert and tighten the four ½" x 1" bolts and washers.

To attach the ramp at the narrow position, line the ramp holes (as shown in Figure continued on next page

For narrow axle assembly...

**Use these instructions ONLY for narrow axle assembly**

Note: if the tow dolly axles are changed from narrow to wide, or from wide to narrow, the tow dolly must be realigned. See the section titled “Alignment instructions” in the owner’s manual.

**1B.** Start by opening the box and unloading everything except the main bed of the dolly. Tear the walls of the box down and place solid wooden blocks or stands underneath each side of the frame so that the bottom of the main bed is about eight inches off the ground.

Now, use the “Axle and Ramp Positioning Chart” (above) to measure the overall tread width of the vehicle to be towed, and to determine the position for the axles and ramps.

**2B.** Attach one of the axles – Starting on one side, remove the two 5/16" x 2½" bolts that go through the tie rod assembly (See Figure 3.). Next, pull the axle and tie rod assembly out so the three holes in the top of the axle align with the three holes identified as N5, N6 and N7 in Figure 2. With the wheels straight, line up the holes in the outer tie rod assembly with the inner holes.

Now, insert ½" x 4½" bolts with washers through N5, N8 and N9. Install washers and lock nuts on each of these bolts as shown. Do not insert bolts through N6 and N7 at this time.

**3B.** Attach one of the ramps –

**CAUTION**

When installing the ramps, use extreme caution not to pinch, crush, cut or otherwise damage the attached wiring or plugs. If electrical components are damaged, they will not function.

Since the axles are being assembled in the narrow setting, the ramps can only be mounted in the narrow position.

To attach the ramp in the narrow position, line the ramp holes (as shown in Figure continued on next page
Wide axle assembly
continued from preceding page
2) with the main bed holes N1 through N4. With the ramp in position, insert and tighten the four ¼" x 1½" bolts and washers.

4A. Secure one of the axles — If the ramps are placed in the wide setting, insert ¼" x 4½" bolts with washers through the ramp and into holes W6 and W7 on the bed (Figure 1). Install washers and lock nuts on the underside of these bolts.

If the ramps are placed in the narrow setting, insert two ¼" x 4½" bolts with washers through the ramp and into holes N6 and N7 (Figure 2). Install washers and lock nuts on each of these bolts.

![Warning]

**WARNING**

It is imperative that all five of the ¼" x 4½" bolts are used (on each side) to secure the axle to the main bed. All five holes will line up if the axles and ramps are in the correct position.

Failure to install and secure all bolts as instructed may cause the axle to separate from the main bed, resulting in property damage, personal injury or even death.

5A. Secure the ramp and axle on the other side — Repeat Steps 2A - 4A to secure the ramp and axle on the other side.

You must install the ramp and axle on the other side at the same width position as you did for the first side.

To finish the assembly, go to step 6 below.

Narrow axle assembly
continued from preceding page
2) with the main bed holes N1 through N4. With the ramp in position, insert and tighten the four ¼" x 1½" bolts and washers.

4B. Secure one of the axles — Insert a ¼" x 4½" bolt through the ramp and into hole N7 on the bed (Figure 2). Insert another ¼" x 4½" bolt through the main bed and axle at hole N6 (Figure 2). Install washers and lock nuts on each of these bolts.

Install and tighten the two 5/16" x 2½" bolts, nuts and washers on the tie rod assembly, as shown in Figure 3.

![Warning]

**WARNING**

It is imperative that all five of the ¼" x 4½" bolts are used (on each side) to secure the axle to the main bed. All five holes will line up if the axles and ramps are in the correct position. Failure to install and secure all bolts as instructed may cause the axle to separate from the main bed, resulting in property damage, personal injury or even death.

5B. Secure the ramp and axle on the other side — Repeat Steps 2B - 4B to secure the ramp and axle on the other side.

You must install the ramp, axle and tie rod on the other side at the same width position as you did for the first side.

To finish the assembly, go to step 6 below.

To finish the assembly... (First, complete steps 1a through 5a for wide axle assembly, or 1b through 5b for narrow axle assembly.)

**CAUTION**

Do not over-tighten the stabilizer bolts. If the bolts are over-tightened, the bed will not tilt down. If tightened correctly, the bed will tilt and the bolts will be secure.

10. Now, torque all bolts (except the stabilizer bolts) used in the assembly process according to Figure 4. Do not torque the bolts that secure the stabilizer bar to the bed of the dolly — refer to the caution statement above.

The lug nuts must be evenly tightened onto the wheel hubs. Gradually tighten each lug nut three or four times, using the crossing pattern shown in Figure 5. Torque to 90 foot pounds. The lug nuts must be checked for tightness every 50 miles during the first 200 miles. Check for tightness every 3,000 miles or six months thereafter.

**WARNING**

Do not over-tighten the lug nuts. If the lug nuts are over-tightened, road vibrations will loosen them, which may cause a wheel separation, resulting in property damage, personal injury or even death.

11. Test the lighting — Test the tow dolly to be certain that the marker lights, turn signals and brake lights are all functioning properly. The wiring is coded as follows:

<table>
<thead>
<tr>
<th>Color Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>S Blue or black</td>
<td>tow dolly brakes</td>
</tr>
<tr>
<td>RT Green</td>
<td>right turn</td>
</tr>
<tr>
<td>LT Yellow</td>
<td>left turn</td>
</tr>
<tr>
<td>GD White</td>
<td>ground for tow dolly</td>
</tr>
</tbody>
</table>

12. Adjust the electric brakes — The tow dolly is equipped with electric brakes. For the electric brakes to function, a brake controller must be installed in the motorhome.

Refer to the manufacturer’s instructions to set the controller to the appropriate weight for towing; be certain to reduce the braking force if the dolly is ever towed unladen.

**How to convert**

from wide ramps to narrow ramps...

Starting on one side, remove the bolts attaching the ramp to bolt holes W1 through W4 (See Figure 1.), as well as W6 and W7. Reposition the ramp to the narrow setting and install and tighten the short bolts through bolt holes N1 through N4 (See Figure 2.). Now, install and tighten the long bolts into bolt holes N6 and N7. Be certain to use washers under all bolt heads, and under any removable nuts. Repeat for the other side.

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**Figure 3**

![Diagram](image3)

**Figure 4**

Bolt torque chart

<table>
<thead>
<tr>
<th>Bolt size</th>
<th>Torque</th>
</tr>
</thead>
<tbody>
<tr>
<td>¼&quot;</td>
<td>12 ft./lb.</td>
</tr>
<tr>
<td>3/8&quot;</td>
<td>38 ft./lb.</td>
</tr>
<tr>
<td>½&quot;</td>
<td>90 ft./lb.</td>
</tr>
<tr>
<td>12mm</td>
<td>63 ft./lb.</td>
</tr>
<tr>
<td>Lug nuts</td>
<td>90 ft./lb.</td>
</tr>
</tbody>
</table>

**Figure 5**

Torque pattern for wheel lug nuts

Use this crossing pattern when tightening the lug nuts on the wheels.