WEIGHT RATINGS

**CAUTION:** The tongue weight rating of the spring bars represents the capacity of a pair of bars, not an individual bar. Always use a pair of spring bars and be sure they are of the same weight rating.

<table>
<thead>
<tr>
<th>Part#</th>
<th>Gross Trailer Weight</th>
<th>Tongue Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Without Spring Bars</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>17062</td>
<td>Not to exceed 10,000 lbs.*</td>
<td>Not to exceed 1,000 lbs.*</td>
</tr>
<tr>
<td>17063</td>
<td>Not to exceed 14,000 lbs.*</td>
<td>Not to exceed 1,400 lbs.*</td>
</tr>
<tr>
<td><strong>With Spring Bars</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>17062</td>
<td>8,000 - 10,000 lbs.</td>
<td>800 - 1,000 lbs.</td>
</tr>
<tr>
<td>17063</td>
<td>10,000 - 14,000 lbs.</td>
<td>1,000 - 1,400 lbs.</td>
</tr>
</tbody>
</table>

* When spring bars are not used, the weight rating is dependent upon the trailer ball manufacturer’s weight ratings. Do not exceed the maximum weight rating of the trailer ball.

**MAINTENANCE**

Keep the socket-mounted ends of the spring bars and the lock pins in the head assembly free from dirt and well lubricated. Excessive wear in this area may indicate an overload or inadequate lubrication.

Keep the head assembly exterior clean. Do not allow dirt or stones to lodge between the spring bars and the head.

Keep hitch parts painted to prevent rust and maintain good appearance. Do not paint over labels.

Keep lift brackets clean and lubricated to ensure ease of operation.

**WARNINGS**

The loaded ball height should never be greater than the uncoupled ball height. Front wheel overload and loss of rear wheel traction can result and can lead to unstable handling. It can reduce braking ability and create a tendency to jackknife when turning and braking at the same time.

If the loaded trailer ball height is greater than the uncoupled height, reduce take-up on the spring bar chains, remeasure and adjust until the proper height is obtained.

**CAUTION:** If the lift chain is angled fore or aft at the top within the lift bracket, it may catch on the bracket when turning. This could damage the lift bracket or pry it open.
**Measure the tow vehicle**

Pick reference points on the front and rear bumper of the towing vehicle. Measure and record height to pavement.

Front bumper to pavement ________________________
Rear bumper to pavement ________________________

For vehicles with air springs, air shocks or automatic leveling systems only, check the vehicle’s owners manual or other instructions on these items. Unless otherwise indicated, air springs and air shocks should be deflated to their minimum recommended pressure before assembling and adjusting the weight distributing hitch.

**Determine the ‘target’ uncoupled ball height for the tow vehicle**

Tow vehicle’s uncoupled ball height will be set higher than the coupler height measured in Step 2 to allow for vehicle squat when coupled to trailer.

For passenger cars, add 1/8” for each 100 lbs. of tongue weight. Record ball height ________________________

**Install shank, hitch head and ball**

**Step 1**

Insert adjustable shank (#2) into receiver tube on tow vehicle and secure with hitch pin & clip (#11, #12). **NOTE:** To obtain proper ball height on high ground clearance vehicles, shank may be inverted as shown in Figure 3. If shank is used in the inverted position, check for adequate ground clearance.

**Step 2**

Position head assembly on shank. Slide head up or down to the nearest bolt hole alignment position which corresponds with the target ball height determined earlier. Mark the position on the shank. See Figure 4.
Step 3
Place six 1/2" flat washers (#19) on pin (#18) and insert pin into the unthreaded hole in the upper portion of the head channel. See Figure 5. The number of washers may have to be adjusted later.

Step 4
Install the head on the shank at marked position. Insert the 3/4" - 10 x 4 1/2" hex bolt (#8) through the lower hole in the head channel. Rotate the head forward as far as it will go. The ball should be vertical or tilted slightly back. If it is not, remove the 3/4" bolt, change the number of washers on the pin and re-assemble. Install the remaining 3/4" - 10 x 4 1/2" bolt (#8) with 3/4" conical washers (#9) through the upper slotted hole. Start 3/4" nylock nuts (#10) and finger tighten only.

Step 5
Tighten lower 5/8" hex bolt below the pin just enough to hold head tight against the pin in the head channel. This bolt will be tightened later.

Step 6
Place head assembly into hitch assembly on towing vehicle and secure it with the supplied pin (#11) and clip (#12).

Assemble, lubricate and install spring bars
Ensure the lift chains (#6) are assembled to the tapered ends of each spring bar (#3) using the 3/8" U-bolts (#13), 3/8" washers (#15) and the 3/8" nylock nuts (#14) as shown below in Figure 6. Let two or three threads of the U-bolts extend out through the bottom of each locknut. The chain must be free to move in the U-bolt. Apply a heavy, fibrous grease on the round end of each spring bar and push end up into the head socket until you hear a click, as shown below in Figure 7. Keep the spring bars lubricated. If additional grease is needed during operation, use the grease zerk. This will indicate that the spring bar is locked into place. To release spring bar, lift up slightly on spring bar and gently pull out on the retaining pin in the hitch head. The spring bar will drop free of the hitch head.

Attaching the trailer to the ball
Using the trailer tongue jack, lower the coupler onto the trailer ball and close coupler latch. Do not retract jack fully at this time. Allow the jack to support some of the tongue weight.

Raise the front of the trailer and back of the tow vehicle approximately 3° with tongue jack. This will allow easier installation of the chains on to the hook of each lift bracket.

Installing the chain lift brackets
The following applies to trailers with an 'A' frame tongue.

Step 1
Position the spring bar, which has been attached to the hitch head, parallel with the trailer tongue. Hold the lift chain vertical up alongside the trailer tongue. Position the lift bracket on the trailer tongue so that the chain is centered between the lift bracket, as shown below in Figure 8. Some trailers may have an obstruction on one side of the frame. Order the offset lift bracket kit from your local dealer. Follow the installation instructions supplied with that kit for proper installation.

CAUTION: If chain is angled fore or aft at the top within the lift bracket, it may catch on the lift bracket when trailer is turning. This could damage the lift bracket or pry it open.

Step 2
Mark the location of the lift bracket on the trailer tongue.

Step 3
Install the 1/2" - 13 x 3 3/4" bolt (#16) into the threaded hole in the lift bracket. Turn the bolt in until it contacts the trailer tongue, then tighten a 1/4 turn with a wrench. Do not overtighten.

The amount of leveling is adjusted by engaging different spring bar chain links with the lift unit. Follow the steps below in the "Lift Bracket Operation" section.
Lift bracket operation

Before raising or lowering the lift bracket, raise the front of the trailer to reduce the spring bar chain tension. This will make the lift bracket operation easier and safer.

WARNING: Keep clear of the pivot path of all moving parts when there is tension on the spring bar chain. Maintain control of the lift handle at all times when raising or lowering the spring bar. Be sure that the locking hair pin is in place once lift bracket is in the up position.

To raise lift bracket

Step 1
Slip the marked chain link over the hook on lift bracket. See Figure 9.

Step 2
Insert lift handle onto lift bracket rod above lift chain hook, as shown in Figure 9.

Step 3
Using the handle, raise the lift bracket up and over center so that it is fully seated against the mounting bracket.

Step 4
Secure by inserting clip through the lift bracket and mounting bracket. NOTE: Be sure the chain is not twisted and hook extends through the link.

To lower from fully raised and locked position

Step 1
Remove the locking pin from lift bracket.

Step 2
Insert lift handle onto the rod above lift chain attachment.

Step 3
Carefully lower bracket with handle. It will require effort to bring the bracket over center and then to resist the chain tension as the bracket rotates downward.

Check vehicle height and adjust spring bars if necessary

Vehicle should settle evenly, within 1/2°. Re-measure the front and rear bumper reference points. If the front has settled much more than the rear, increase the number of chain links between the lift bracket and the spring bar. The spring bars should be nearly horizontal when correct height is achieved.

When even settling and correct spring bar position have been achieved, mark the spring bar chain at the hooked position with paint for future hook up reference.

NOTE: Figures 10 and 11 show the correct and incorrect hook-up position of the spring bars. To allow movement when turning, there should be at least five links between the lift bracket and the spring bar. The number of links should be the same on both bars. Adjust head tilt to accomplish correct chain length.

Figure 10
Tighten 1/2° head attachment bolts to 75 ft. lbs. torque. Failure to tighten bolts may result in fastener loss or failure.

Insert the locking pin through the lift bracket and mounting bracket.

Figure 11
Tighten head fasteners

Tighten 3/4" bolts and locknuts to 200 ft. lbs.
Tighten 5/8" hex head set-screw to 50 ft. lbs. Failure to tighten bolts may result in fastener loss or failure.

Check all connections before towing

Check the following:

Pin & clip securing shank to receiver
Head to shank fasteners
Trailer ball nut torque
Coupler latch
Snap-up bracket bolt
Safety chains
Lights and turn signals
Braking system, including breakaway switch
SWAY CONTROL KIT

PARTS LIST

<table>
<thead>
<tr>
<th>Item#</th>
<th>Qty</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>1</td>
<td>Sway control trailer ball</td>
</tr>
<tr>
<td>2</td>
<td>1</td>
<td>Trailer mounted attachment ball</td>
</tr>
<tr>
<td>3</td>
<td>1</td>
<td>Sway control</td>
</tr>
<tr>
<td>4</td>
<td>2</td>
<td>Clips</td>
</tr>
<tr>
<td>5</td>
<td>6</td>
<td>Self-tapping screws</td>
</tr>
<tr>
<td>6</td>
<td>6</td>
<td>Lock washers</td>
</tr>
</tbody>
</table>

USE

Hook up the trailer to the tow vehicle. Lubricate the threads on the sway control handle with a drop of oil. Attach the socket on the slide bar to the sway control ball on the weight distribution hitch. Secure in place using a spring clip. Turn the On / Off handle three turns counterclockwise to release tension. Place the main body socket onto the trailer-mounted attachment ball. Secure in place using a spring clip.

Turning the On / Off handle clockwise, tighten firmly until the handle is parallel with the main body. With a second person watching the sway control and trailer, slowly back the trailer in both directions into a jackknife position. Check that the sway control does not hit the bumper or trailer frame and that it does not become fully compressed or come apart. If any of these occur when jackknifed, the sway control must be removed while backing.

Road and weather conditions, load and design of the trailer, power steering, wheel alignment and the oscillation point of the tow vehicle and trailer all affect towing characteristics. Starting with the factory preset tension, road test the sway control unit. If the factory preset tension does not provide enough sway control, then adjust the break tension screw 1/4 turn clockwise. Road test again and repeat (if necessary) until proper sway control is achieved. Larger or heavier trailers or broad-sided trailers may require the use of two sway control units. After a 1,000 mile break-in period, remove the slide bar and clean it using a wire brush or steel wool. The slide bar should then be cleaned every 10,000 miles.

ASSEMBLY

Step 1
Measure 24" straight back from the center of the coupler to the desired side of the trailer frame (Figure 1) to determine the location of the attachment ball. The trailer-mounted attachment ball must be centered on the 24" measurement.

Step 2
Transfer punch the holes from the trailer ball mount plate to the trailer frame and drill six 11/32" holes.

Step 3
Attach the trailer-mounted attachment ball to the trailer frame using the self-tapping screws provided.

WARNINGS

Towing a trailer changes the handling characteristics of the tow vehicle

Short wheel base vehicles may induce sway when towing a trailer. Use extreme caution

Never paint or lubricate the slide bar

Any welding should be done by a qualified welding shop

WARNING: The sway control cannot be used on trailers with surge brakes. Do not speed up if sway occurs; sway increases with speed. If sway continues, stop the vehicle and inspect all towing equipment until the cause has been determined and corrected. Trailers should be loaded with heavy items on the floor, in front of the axle. The load should be balanced side to side. Tongue weight should be 10-15% of gross trailer weight for motor trailers. Insufficient tongue weight or tail-heavy trailers can cause sway. When towing in slippery conditions, such as wet, icy, gravel or snow covered roads, the sway control must be removed.
TOWING TIPS

Driving a tow vehicle

Good habits for normal driving need extra emphasis when towing a trailer. The additional weight of the trailer affects acceleration and braking. Extra time should be allowed for passing, stopping and changing lanes. Signal well in advance of a maneuver to let other drivers know your intentions. Severe bumps and badly undulating roads can damage your towing vehicle, hitch and trailer, and should be negotiated at a slow, steady speed. If any part of your towing system bottoms out or if you suspect damage may have occurred in any way, pull over and make a thorough inspection. Correct any problems before resuming travel.

Check your equipment

Periodically check the condition of all your towing equipment and keep in top condition.

Trailer loading

Proper trailer loading is very important. Heavy items should be placed close to the floor near the trailer axle center line. The load should be balanced side to side and firmly secured in the trailer to prevent shifting. Tongue weight should be 10-15% of the gross trailer weight for most trailers. Too low a tongue weight often produces tendency to sway.

Sway control

A sway control device is recommended, as it can help minimize the effects of sudden maneuvers, wind gusts and buffeting caused by passing vehicles. Use of a sway control device is recommended for trailers with a large surface area, such as travel trailers. This head assembly will accept two sway control attachment balls.

Check all trailer to towing vehicle connections for security and operation

Surge brakes require a small amount of fore and aft movement for their actuating mechanism to function correctly. To avoid restricting movement, it may be necessary to increase the number of chain links between the lift brackets and spring bars, by tilting the head down. Tighten the two 3/4" bolts to 200 ft. lbs. torque once head angle is set.

Surge brake actuators not designed for use with a weight distributing hitch may bind and not operate freely. Check surge brake operating instructions for specific requirements regarding their use with weight distributing hitches.

Remove hitch when not towing

Remove weight distribution hitch from the trailer hitch on towing vehicle when not towing a trailer to the reduce chances of striking weight distribution hitch on the driveway or other objects. This also reduces the chance of parts being stolen.

Towing vehicle and trailer manufacturer's recommendations

Review the owner’s manual for your towing vehicle and trailer for specific recommendations, capacities and requirements.

Pole tongue trailer

If your trailer has a straight (pole) tongue, instead of an A-frame tongue, as shown in the illustrations in this instruction manual, it will be necessary to use a pole tongue adapter for hook up of the weight distributing hitch lift brackets.

Passengers in trailers

Trailers should not be occupied while being towed. Most states enforce this regulation.

Trailer lights, turn signals and electric brakes

Always hook up all of the trailer lights, electric brakes and break-away switch connections whenever trailer is being towed.

Tire inflation

Unless specified by the towing vehicle or trailer manufacturer, tires should be inflated to their maximum recommended pressure.

At the beginning of every tow day

Coat the clevis pins in head assembly with a fibrous grease.

Clean ball and coupler socket. Coat ball lightly with grease.

Check spring bar chains and U-bolts for wear and security. Replace if they become worn.

Check to see that all trailer balls are properly tightened and that the locking pins in the lift brackets are securely in place. Also, check that the hitch pin is in place and secure.

Check to see that all electrical hook-ups are in working order and that the security chains are securely connected.

NOTES

Some states require a clear view of license plates. Remove trailer ball when not in use if it restricts view.

This product complies with regulation V-5, C.S.A. Standard D-264 and safety requirements for connecting devices and towing systems of the State of New York.