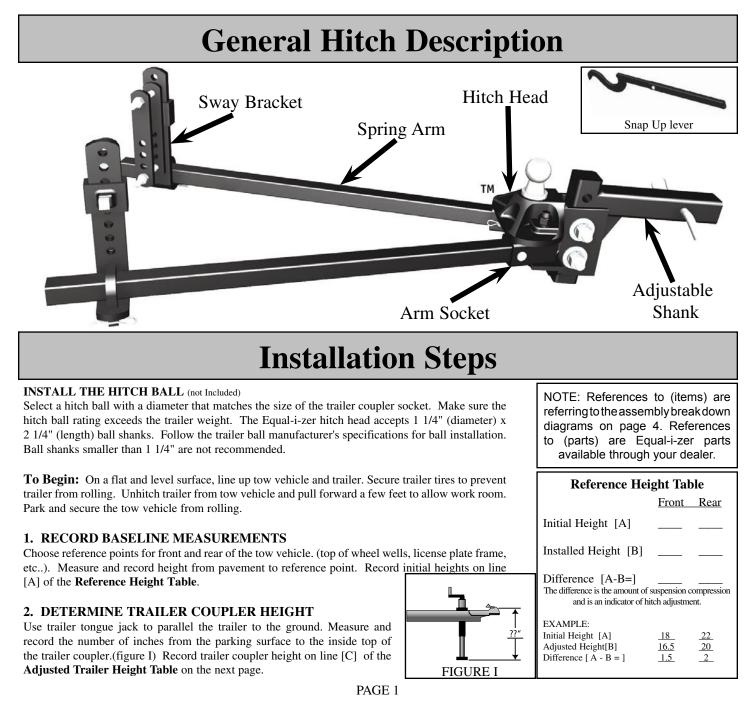


Thank you for purchasing The Original Equal-i-zer Sway Control Hitch. Following a correct installation, the Equal-i-zer will provide you superior control for a safe towing experience. Basic hitch adjustments may be necessary over time or when changing tow vehicles and trailer load. Please refer to these instructions for any adjustment questions. For additional information please refer to WWW.EQUALIZERHITCH.COM



3. DETERMINE TRAILER HEIGHT ADJUSTMENT

To compensate for normal compression of the tow vehicle's rear suspension, height must be added to the hitch ball. The Adjusted Trailer Height will allow trailer and tow vehicle to ride normally when coupled together. For every 100 pounds of trailer tongue weight add the following for your respective suspension. Vehicles with:

- stiff suspension (1 ton trucks, ...)
- add 1/8" to the hitch height for each 100 pounds of trailer tongue weight. - average suspension (3/4 ton trucks, ...)
- add 3/16" to the hitch height for each 100 pounds of trailer tongue weight. light suspension (1/2 ton Trucks, ...)
- add 1/4" to the hitch height for each 100 pounds of trailer tongue weight Record height adjustment on line [D] of the Adjusted Trailer Height table.

The sum of lines [C] and [D] is your adjusted trailer height and will be used in step 5.

4. INSTALL HITCH SHANK

- a) Insert adjustable hitch shank into the tow vehicle receiver. To obtain proper ball height the hitch shank may be placed pointing up or down. (figure II) If used facing downward, check for adequate ground clearance.
- b) Secure the shank in the receiver tube with the receiver pin and clip.

NOTE: If needed, hitch shanks with greater height/drop and length are available from your Equal-i-zer dealer.

5. INSTALL HITCH HEAD (Hitch ball must be installed before this step)

- a) Place spacer rivet with five (5) spacer washers (item #3) into the 1/2" hole located at the inside top of the hitch head channel. (figure III)
- Position the hitch head on the hitch shank. Place the top of the hitch ball at the Adjusted Trailer Height found in step 3.
- c) Slide the hitch head up or down to the **nearest** bolt hole.
- d) Insert the 3/4" bolts (item #1) through 3/4" flat washer and hole in the hitch head channel and shank. Install 3/4" flat washer, lock washer and nut.

Head angle

is level

incorrect

IMPORTANT:

Only hand tighten 3/4'' bolts at this time. Tighten Angle Set Bolt (item #9) located at bottom of hitch head channel until the spacer rivet and washers are slightly snug against shank.

(The 3/4" bolts and the Angle Set Bolt (item #9) and will be fully tightened in a later step)

NOTE: The spacer washers are used to angle the hitch head approximately 4 to 6 degrees downward. If the tow vehicle's receiver is not level, more or less washers may be needed to compensate for the uneven receiver.

7. INSTALL LINK PLATES ON TRAILER FRAME (Repeat for each side of trailer)

Measure and mark 32" from the center of the ball coupler back along both sides of the A-frame. (29" to 32" is acceptable.) (figure IV)

- a) Insert 1/2" x 4" bolt (item #13) through the single hole of the outside link plate (item #12) and through same hole in the inside link plate (item #11). Thread the 1/2" nut (item #10) on bolt.
- b) Hang the assembly over the frame rail with the 1/2" bolt at the 32" mark.
- c) Insert the 2nd 1/2" x 4" bolt through the hole in the outside link plate that is nearest the bottom of the trailer frame.

d) Alternately tighten the 1/2" nuts evenly so that the outside link plate and inside link plate have even contact with the frame.

CAUTION: Never place the sway brackets farther than 32" from the hitch ball. Doing so may result in damage to your sway brackets.

NOTE: Standard link plates will fit up to a 6" trailer frame. Link plates that will accommodate up to an 8" or 10" trailer frame are available through your Equal-i-zer dealer.

correct

Head is angled

down 4° to 6°

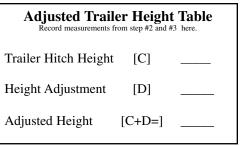
8. INSTALLING THE L-BRACKET (figure V)

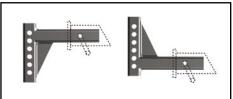
- a) Start the 5/8" set screw (item #14) into the threaded nut on the outside link plate.
- b) Insert the L-Bracket (item #15) up through the rectangular tube of the outside link plate. Tighten the 5/8" set screw into the 5th hole from the top.

NOTE: The set screw does not go completely through the holes in the L-Bracket. The beveled end of the set screw enters the hole and pins the L-Bracket to the back side of the assembly.

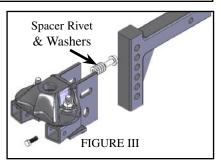
9. INSTALL SPRING ARMS

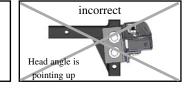
- a) Insert the notched end of the spring arm into the arm socket of the hitch head.
- b) Pin arms in place. Using 3/8" socket pin (item #7) and socket clip (item #9)
- c) Move arms away from trailer frame. NOTE: Arms will resist movement until after the hitch is broken in.

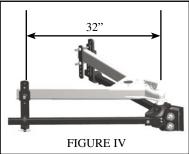














10. COUPLE TRAILER HITCH BALL

- Reposition vehicle so hitch ball is under the trailer coupler. a)
- Lower trailer coupler onto hitch ball and secure the coupler latch. b)
- Using the tongue jack, raise front of trailer and rear of the tow vehicle 5-8 inches. c)

NOTE: A stable jack platform may be used under the trailer jack to allow greater height.

11. ATTACH SPRING ARMS TO TRAILER BRACKETS

Once the spring arms are elevated swing them inward toward trailer frame and L-Bracket. Lift the arms onto the L-Brackets. If brackets are too high to receive arm: a)

- Extend the tongue jack or raise the trailer frame to lift the arms higher.
- Use the Snap Up Lever to lift the spring arm onto the L-Bracket. (figure VI)
- b) Secure arm in place with L-Pin (item #16) and L-Pin Clip. (item #17)
- c) Slowly lower the trailer jack until hitch is carrying the full trailer tongue weight.

12. RE MEASURE REFERENCE POINTS - ADJUST IF NECESSARY

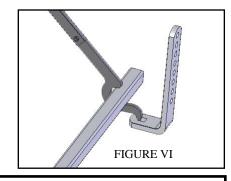
- Re measure from the ground to your original reference points and record a) them on Reference Height Table(page 1) as Installed Height [B].
- Subtract your new measurement [B] from your initial measurement [A]. b)

This new number indicates compression of the tow vehicles suspension.

ADJUST THE HITCH AS NEEDED

An ideal set up will have equal compression front to back. As a general rule, to be within 1" difference of compression between the front and rear of the tow vehicle is acceptable. Individualized adjustments can be made to achieve driver preference. (see adjustment info)

NOTE: In most cases, spring arms will be level or angle up slightly. However, it is more important for the truck and trailer settle properly, than for the spring arms to be level or parallel with the trailer frame.



ADJUSTMENT INFO

To increase weight transfer or lower the Front End of the tow vehicle, you can either:

Raise the L-Brackets or Add Spacer Washers

To reduce weight transfer or lower the Rear End of the tow vehicle, you can either:

Lower the L-Brackets or Subtract Spacer Washers

CAUTION: Before changing L-Bracket height remove spring arms from L-Brackets as described in Section 15. CAUTION: Before attempting to adjust head angle unhook trailer from the hitch as described in section 15.

13. WHEN DESIRED WEIGHT DISTRIBUTION HAS BEEN ACHIEVED

With the trailer still attached to the tow Vehicle:

Tighten angle set screw. (item #8) It should be tight against the shank, and no gap present in the washer stack. (item #3) a)

- Socket Pins and Clips

Tighten 3/4" bolts (items #1 and #6) to a maximum of 200 ft. lbs. b)

14. CHECK ALL CONNECTIONS BEFORE EACH TOWING SESSION

- Receiver pin and clip
- L-Pins and clips
- Electrical connections
- L-Bracket Set Screw
- Ball and ball nut - Spacer Rivet

 - Sway control bracket bolts
- Angle set screw (over time this may loosen and need retightening) General trailering items

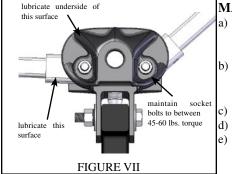
- Head bolts

- Inspect receiver, hitch, hitch ball, and other assemblies for any signs of wear or fatigue.

15. UNHITCHING

Make sure the tow vehicle is in park and the trailer is secured from rolling. Using the trailer tongue jack, raise the front of the trailer and rear of the tow vehicle until tension is removed from the spring bars.

- a) Remove the L-Pins and clips
- Swing spring arms off and away from L-Brackets. b)
- Lower tongue jack until coupler can be safely unlatched from hitch ball. c)
- Raise front of trailer off hitch ball. d)
- Remove spring arms from hitch before removing hitch from receiver. e)



MAINTENANCE (figure VII)

- Lubricate top outside surface of arm socket and bottom surface of hitch head with Equal-i-zer Socket Lube (part # 91-00-4200) Keep this area clean and lubricated. Some wear is normal as sockets 'seat in'. Irregular wear in this area may indicate overload or inadequate lubrication.
- Lubrication between the L-Bracket (item #15) and the spring arm is optional. Lubrication of this area will not diminish the sway control capabilities of the hitch, and may quiet the hitch when turning.
 - Maintain the socket bolts tight to at least 45 lbs torque. (figure VII)
- Keep the hitch clean and free of dirt and road grit.
 - Paint as needed to prevent rust.

Considerations

POLE TONGUE TRAILERS: For trailers with straight or pole style tongue:

- a) Eliminate the inside link plate (item #11) and bolt the two outside link plates (item #12) together around the pole tongue frame.
- (Jam or half nuts (not Included) are needed for this option to allow L-Bracket to clear the nut)b) Use the optional Pole Tongue Adapter (not Included)(Part # 95-01-5950) to hold the L-Brackets and
- arms, simulating an A-frame style trailer. The link plates are not used with this option.

SURGE BRAKES: Equal-i-zer allows the forward and back movement required by most surge brake mechanisms. In applications with heavy tongue weights, lubricating the L-Brackets where the spring arm slides will allow less restricted forward and back movement.

AUTO-LEVELING AND AIRBAG SYSTEMS: For vehicles with air shocks or automatic leveling systems, check vehicle owner's manual or product literature for specific instructions. In some cases using the Adjusted Hitch Height may not be necessary with auto leveling systems. (step #3)

- a) Unless otherwise indicated, auto-leveling systems should be turned off before/during assembly and adjusting the Equal-i-zer hitch.
- b) Unless otherwise indicated, air shocks should be deflated to their minimum recommended pressure before assembling and adjusting the Equal-i-zer hitch.

!!WARNING!!

Weight Distribution Hitches, when in use, present a large amount of force. Never loosen or remove any fastening hardware or pieces of the hitch while it is attached to the trailer. L-Pins and Clips are acceptable to remove while unhitching. Exercise caution when hitching and unhitching, and while loading or unloading the spring arms. Keep hands and feet away from pinch points and paths of travel during work on or operation of the hitch.

Assembly Break Down

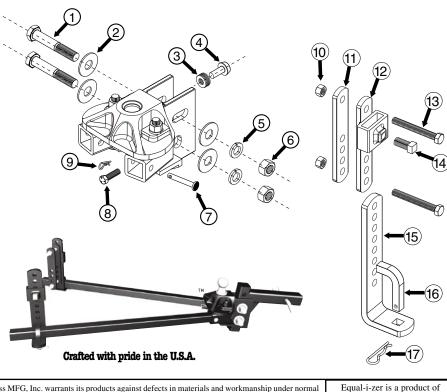
*bracket assemblies and shanks are universal between all Equal-i-zer hitch models. Head and spring arm parts are model specific.

Hitch Head Assembly

Item#	Part #	Description
1	90-04-9130	3/4" x 41/2" Bolt
2	90-04-9115	3/4" Washer
3	90-04-9110	1/2" Hardened Washer
4	90-03-9105	Spacer Rivet
5	90-04-9120	3/4" Lock Washer
6	90-04-9215	3/4" Nut
7	90-03-9212	Socket Pin
8	90-04-9240	Angle Set Bolt
9	90-04-9216	Socket Pin Clip

Sway Bracket Assembly

	-	•
Item#	Part #	Description
10-17	95-01-5500	Sway Bracket Kit (entire kit as shown)
10	90-04-9228	1/2" Nut
11	90-02-5200	Inside Link Plate
12	90-02-5300	Outside Link Plate
13	90-04-9232	1/2" x 4" Bolt
14	90-04-9236	5/8" Set Screw
15	90-02-5100	L-Bracket
16	90-03-9204	L-Pin
17	90-04-9208	L-Pin Clip





Linited Lifetime Warranty: Progress MFG, Inc. warrants its products against defects in materials and workmanship under normal use and service, ordinary wear and tear is excepted, from the first date of purchase at retail for the ownership life of the original purchaser. If any of these products are defective they will be replaced or repaired when a proper return authorization is obtained and the product is returned with transportation charges prepaid to the Progress MFG, Inc. manufacturing plant. Progress MFG, Inc. shall not be required to replace or repair any products damaged as a result of improper installation, alteration or unreasonable use including loading the product beyond the factory rated load capacity. This warranty does not include labor charges nor does it include transportation charges for returning the product to the customer. To the extent allowed by law, Progress MFG, n. shall not be liable for any incidental or consequential damages or breach of any implied warranty of any Equal-i-zer product.



Part # 95-01-5950 Pole Tongue Adapter Not Included with hitch.