



SwayPro™

Owner's Manual

It's from Blue Ox. So you know it's built tough.



BXW0550

(550 lb maximum tongue weight capacity)

BXW0750

(750 lb maximum tongue weight capacity)

BXW1000

(1000 lb maximum tongue weight capacity)

BXW1500

(1500 lb maximum tongue weight capacity)

THANK YOU

for purchasing a SwayPro from Blue Ox. We've organized this manual to make your installation simple and as trouble-free as possible. Insure it is read. Keep your sales receipt and this manual in a safe place so that both are available for future use if needed.

THREE YEAR LIMITED WARRANTY

Automatic Equipment Manufacturing Company (“Automatic”) warrants to the original (first) retail purchaser that this product, manufactured by Automatic, shall be free from defect in material and workmanship under normal use and service for a period of three years from the date of delivery.

During said three-year period, Automatic will repair or replace any parts that have been returned by the original purchaser, to the factory, transportation prepaid, and in Automatics sole and absolute opinion found to be defective.

Limitations on Warranty Coverage:

Coverage under this warranty will be valid only if the customer warranty card is returned by the original purchaser within 30 days of purchase.

Coverage under this warranty will be effective only when a copy of the original invoice, showing date and place of purchase, accompanies any claim for warranty. This warranty is NON TRANSFERABLE.

This limited warranty will not cover, in any way or form, any alleged damages caused by incorrect or improper installation, improper use, modification or neglect of product, failure to properly service and maintain, misuse, act of God, accident or failure of the user to follow guidelines contained in the instructional material provided by Automatic. This warranty does not cover normal wear and tear, paint or rust.

Warrantor assumes no responsibility to the owner for loss of use of product, loss of time, inconvenience or any other damage consequential or otherwise. Including, but not limited to mileage, expense of transporting of product, return shipping expense, mechanics travel time, telephone, road service, towing, and rental during repairs, travel, lodging, loss or damage to personal property or loss of earnings.

REPAIR OR REPLACEMENT AS SET FORTH IN THIS LIMITED WARRANTY IS THE SOLE EXCLUSIVE REMEDY OF THE PURCHASER. AUTOMATIC SHALL NOT BE LIABLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES FOR BREACH OF ANY EXPRESS OR IMPLIED WARRANTY ON THIS PRODUCT. EXCEPT TO THE EXTENT PROHIBITED BY APPLICABLE LAW, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE ON THIS PRODUCT IS LIMITED IN SOME STATES DO NOT ALLOW THE EXCLUSION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, OR ALLOW LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY LASTS, SO PREVIOUS LIMITATIONS OR EXCLUSIONS MAY NOT APPLY TO YOU. THIS WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS AND YOU MAY ALSO HAVE OTHER RIGHTS WHICH VARY FROM STATE TO STATE.

Automatic reserves the right to make changes or add improvements to its product at any time without any obligation to make such changes to previously manufactured equipment.

No liability is assumed for bodily injury that may be inflicted on the purchaser, operator, spectator or general public who is in the general area while this equipment is in use.

WARRANTY REQUEST PROCEDURE:

If your Automatic product develops a defect during the warranty period, promptly notify Automatic Customer Care. Until such notice is received, Automatic will not be responsible for any repairs or replacement.

Upon receipt of notice from you, Automatic will have a choice of options in repairing or replacing any part it determines in its sole and absolute discretion to be defective. 1.) Customer Care may require you, at your own expense, to deliver or ship the part to the factory for evaluation. They will issue a “Return Merchandise Authorization” (RMA) number if this is required.

2.) Any part that is, in Automatic’s sole and absolute judgment, found to be defective in material or workmanship, will be repaired or replaced, at Automatic’s option without charge for parts or labor. At Automatic’s option, new, refurbished or improved parts may be used in the repair or replacement of warranted items or replacement products.

Blue Ox Division
Automatic Equipment Mfg. Co.
P.O. Box 430
Pender, Nebraska 68047
(402) 385- 3051
4/19/11



Product Information & Table of Contents

Equipment Information Record

Date Purchased: _____

Purchased From: _____

Address: _____

City: _____ State: ____ Zip Code: _____

Phone Number of Dealership: _____

Installed By: _____

Service #: _____

Model #: _____

Serial #: _____

Notes: _____

WARNING

-FOR YOUR SAFETY-

We recommend that this product be installed by an authorized Blue Ox® Professional Installer. Improper installation and/or operation can create a hazard which can cause serious injury, property damage or death. Improper installation and/or operation will void the warranty.

At Blue Ox® we pride ourselves in offering exceptional customer service to our valued customers.

If you have any questions, comments, or concerns please feel free to contact a member of our Customer Care Team by calling (402) 385-3051.

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DEALERS AND DISTRIBUTORS:

PLEASE give the instructions to the customer so they fully understand the setup, operation, and safety precautions of this weight distributing hitch .



The SwayPro™ from Blue Ox®

Description of your product.

Just like all Blue Ox® products, the SwayPro™ is built to last. When you purchase any Blue Ox hitch you can be confident that you'll have superior performance and safety for years to come. For added comfort and security, Blue Ox stands behind the SwayPro with a three year limited warranty. This revolutionary hitch goes the extra mile for you.

Blue Ox hitches are built to help you take life on the road. That means they're strong enough to handle the toughest conditions you'll face, coast-to-coast and season to season. Best of all, Blue Ox hitches are designed to be innovative and user friendly. So, when you need industry leading performance day after day and year after year, turn to the team that gives you more of what you need in a hitch. Turn to Blue Ox.

SwayPro utilizes the latest in weight distribution technology to be the most user-friendly hitches on the market today. SwayPro eliminates trailer sway under heavy loads, high winds, and rutted roads.

Just one look at SwayPro shows our commitment to quality and durability. Innovative and unique features insure a hitch so easy to use and adjust, you'll thank yourself everytime you tow.

Easy hook up and disconnect means spending less time working and more time enjoying your travels. Easy operation does not stop there. The rotating latch automatically secures into place and releases with the simple pull of a lock pin.

The spring bars of the SwayPro snap into the head sockets and cannot fall out - giving you one less thing to worry about. Simply turn them 90 degrees to remove.

The rotating latch bracket secures the chain eliminating sway. Hook up is quicker and less hassle. The rotating latch allows back up without having to disconnect and provides clearance for enclosed trailer frames.

Another task made simple with this superior weight distributing hitch is that of head angle adjustment. The head angle is conveniently adjusted with a thumb screw. What could be easier?

Personal sway preferences are not a problem for the SwayPro. Bolts are easily torqued to driver's preference to adjust sway.

The SwayPro is available in four tongue weights: BXW0550 (550 lbs), BXW0750 (750 lbs), BXW1000 (1000 lbs), and BXW1500 (1500 lbs).

Durability. Performance. Convenience. Blue Ox delivers them all to you with the SwayPro.

The most user-friendly hitch on the market!



Features and Benefits

This section explains the many different features and benefits of your SwayPro™.

- **Open Head**
Benefit: Open head provides easy access for tightening the hitch ball.
- **Powder Coat Steel Finish**
Benefit: The powder coat finish provides a professional appearance, aids in rust prevention, and prolongs the life of the product.
- **Signature Series Rotating Latches**
Benefit: Rotating latches clear obstacles that are mounted above the frame and keeps chains from swinging to eliminate sway.
- **Spring Bar Attachment**
Benefit: Spring bars automatically lock into place. Simply turn 90 degrees to remove.
- **Sway Control**
Benefit: Sway is controlled by the simple tightening of the pivot bolts.
- **Grease Zerk**
Benefit: Grease is captured inside the bar pivot head. No messy bars to deal with.
- **Hitch Head Thumbscrew**
Benefit: One person adjustment of the hitch head angle for proper weight distribution without disconnecting the trailer.

Frequently Asked Questions

What size ball shanks can be used?

Answer: The SwayPro accepts 1" or 1 1/4" ball shanks.

Can the sway control be adjusted?

Answer: Yes. Sway control is adjusted by the tightening of the pivot pins or tightening of the pivot bolts.

What is *gross trailer weight*?

Answer: Weight of trailer (dry) + liquids (water, propane, sewage) + cargo. Measure gross trailer weight with a fully loaded trailer on a level surface, preferably on a public truck scale.

What is *tongue weight*?

Answer: Downward force exerted on the hitch ball by the trailer ball coupler. Measure tongue weight with a fully loaded trailer on a level surface with trailer ball coupler at normal tow

Things To Know

Loaded ball height should never be greater than uncoupled height. Front wheel overload and loss of rear wheel traction can occur, and can lead to unstable handling, reduced braking ability, and a tendency to jackknife when turning and braking at the same time.

The trailer must have a minimum tongue weight of 350 pounds to utilize the SwayPro.

Do NOT attempt to tow any type of trailer behind another trailer. Towing multiple trailers may cause severe instability, loss of control and/or structural failures.

Handling and control of your towing vehicle and trailer is greatly improved when the cargo is properly loaded and distributed.



Welcome to the Blue Ox® Experience

Congratulations! You are now the proud owner of a SwayPro™.

Welcome to the Blue Ox® Family. The weight distributing hitch that you have purchased combines quality components with the latest in technology and style. We are confident that these design features will provide you with the conveniences you expect during your travels. After you understand how to properly and safely operate and care for your SwayPro, expect years of trouble-free operation and service backed by a three year limited warranty.

In this manual, you will find installation instructions. Please read all of the technical documents, warnings, cautions, tips, and notes in this manual before attempting to operate your SwayPro for the first time. Improper installation, use or maintenance may result in malfunction causing personal injury or property damage. Finally, don't forget to fill out and return your warranty card. For future reference, your serial number is located on the outside of the manual packaging and is also located on the top of the hitch head of your SwayPro.

WARNING

Do NOT exceed the vehicle manufacturer's specification for trailer gross vehicle weight or tongue weight as this may cause a serious accident and/or injury while towing and may void warranties.

WARNING

Do NOT modify your SwayPro™ in any way NOT authorized by Blue Ox®, as it will void the warranty.

Care & Maintenance

Care and Maintenance of your SwayPro

Your SwayPro unit requires a minimal amount of care and maintenance. If you do not feel confident in your ability to perform the occasional maintenance, consult your Blue Ox® Dealer or Professional Installer, or see a Blue Ox representative at a rally or race that you plan to attend. The following will inform you of the areas of your Sway Pro that will need periodic inspection and/or care and maintenance.

- REMINDER -
Proper installation and use of this product is the sole responsibility of the purchaser.

Care

When hooking up, confirm that both rotating latch brackets are tight on the tongue.

Maintenance

Grease **both** grease zerks on the front of the bar pivot before each use. We recommend molybdenum grease. Wipe away excess grease after application.

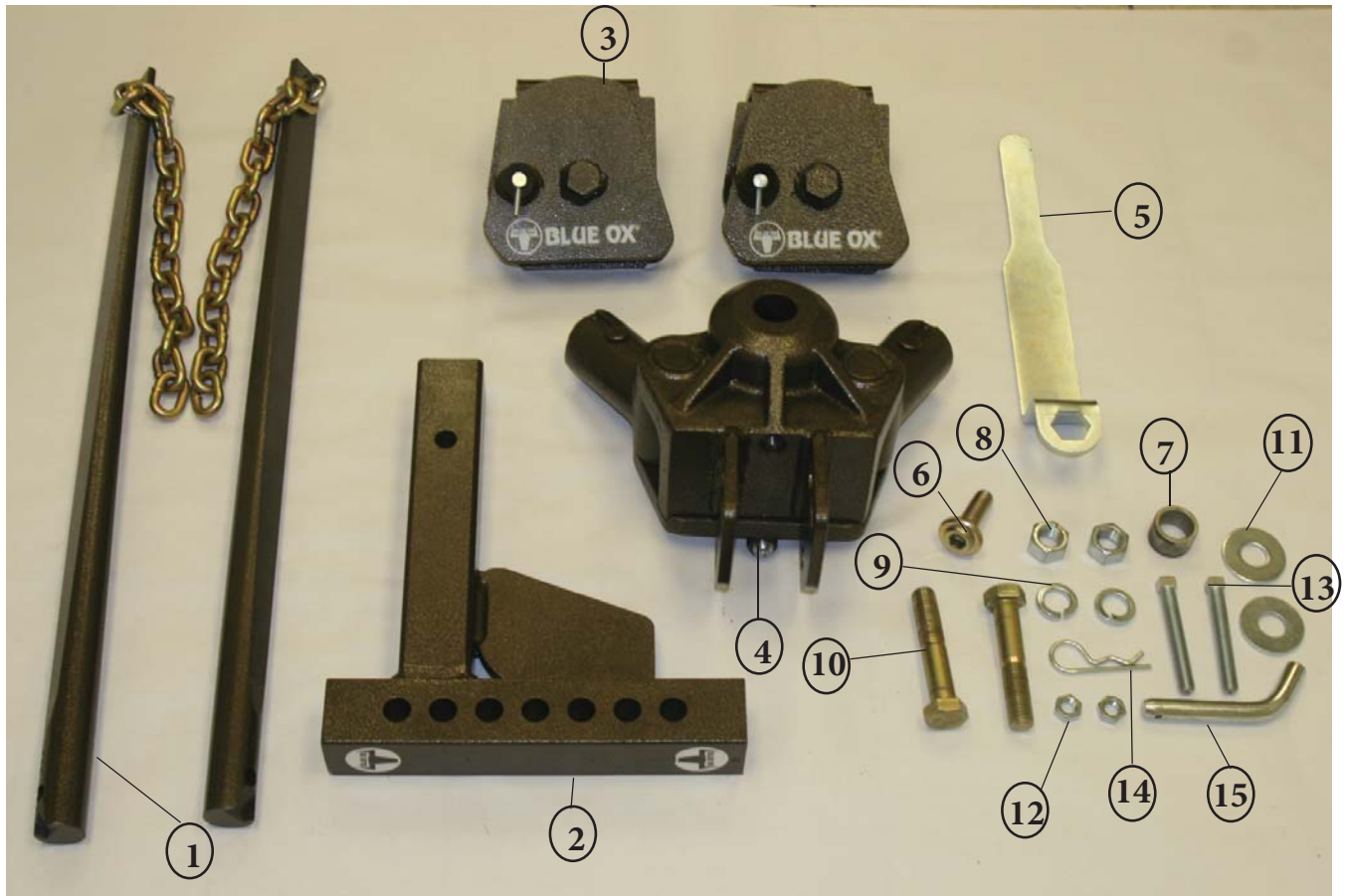
Periodically grease the hitch ball with molybdenum grease.

Should the hitch head thumbscrew stick, apply silicone spray.



Unpacking your SwayPro™

Remove the SwayPro and accessories from the shipping carton, see parts list and diagram below. Make sure that you have all of the following. If **NOT**, please contact a Blue Ox® Dealer or Distributor, or call a member of the Customer Care Team at (402)385-3051 to order replacement parts.



Contents:

1	Weight distributing bars	6	5/8" cap screw wrench	11	3/4" flat washer
2	Hitch mount receiver	7	Spacer tube (1.25 OD)	12	1/2-13 hex jam nut
3	Rotating latch	8	3/4-10 hex nut	13	1/2-13 x 3 1/2" set screw
4	Hitch head	9	3/4" lock washer	14	Clip
5	Rotating latch wrench	10	3/4-10 x 4" hex bolt	15	5/8 x 3" pin

Specifications

BXW0550:

Maximum Tongue Weight: 550 lbs.

BXW0750:

Maximum Tongue Weight: 750 lbs.

BXW1000:

Maximum Tongue Weight: 1,000 lbs.

BXW1500:

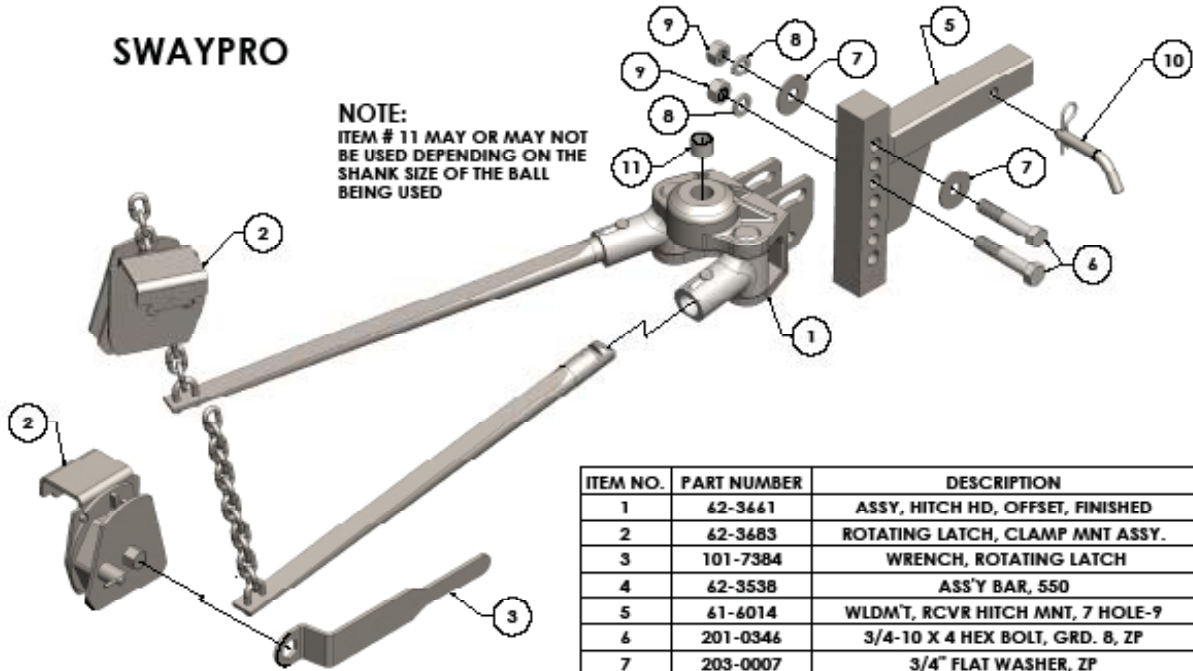
Maximum Tongue Weight: 1500 lbs.

**Minimum Tongue Weight of 350 pounds required

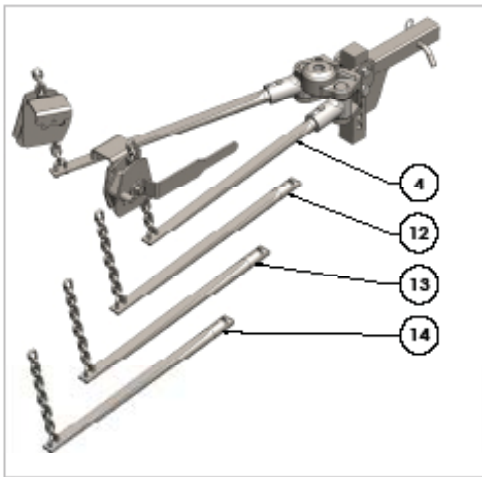


SWAYPRO

NOTE:
ITEM # 11 MAY OR MAY NOT
BE USED DEPENDING ON THE
SHANK SIZE OF THE BALL
BEING USED

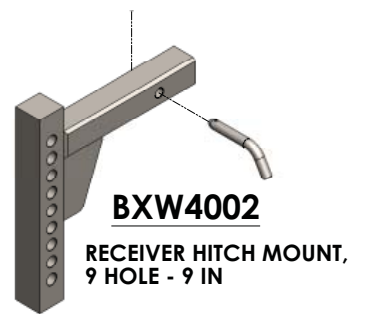
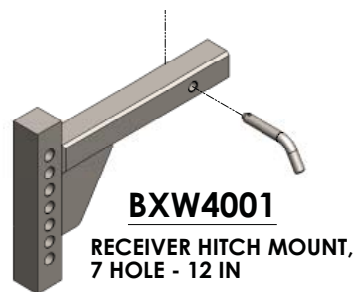
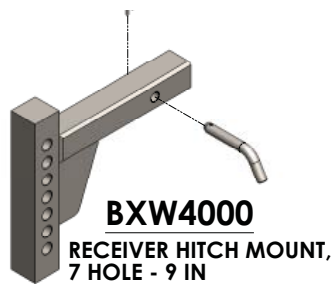


ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	62-3661	ASSY, HITCH HD, OFFSET, FINISHED	1
2	62-3683	ROTATING LATCH, CLAMP MNT ASSY.	2
3	101-7384	WRENCH, ROTATING LATCH	1
4	62-3538	ASS'Y BAR, 550	2
5	61-6014	WLDM'T, RCVR HITCH MNT, 7 HOLE-9	1
6	201-0346	3/4-10 X 4 HEX BOLT, GRD. 8, ZP	2
7	203-0007	3/4" FLAT WASHER, ZP	2
8	203-0014	3/4 LOCK WASHER, ZP	2
9	202-0007	3/4-10 HEX NUT, ZP	2
10	200-1483	PIN, Ø 5/8" 3" EFF., W / CLIP	1
11	107-3042	TUBE, SPACER, 1 .25 OD X 1.031 ID X .825"	1
12	62-3537	ASS'Y BAR, 750	1
13	62-3536	ASS'Y BAR, 1000	1
14	62-3558	ASS'Y BAR, 1500	1



BXW0550 USE ITEM # 4 (62-3538 ASS'Y, BAR, 550)
 BXW0750 USE ITEM # 12 (62-3537 ASS'Y BAR, 750)
 BXW1000 USE ITEM # 13 (62-3536 ASS'Y BAR, 1000)
 BXW1500 USE ITEM # 14 (62-3558 ASS'Y BAR, 1500)

Tools Required
 Torque Wrench
 Tape Measure
 1 1/16" Ratchet
 1 1/8" Ratchet
 3/8" Ratchet
 Allen Wrench



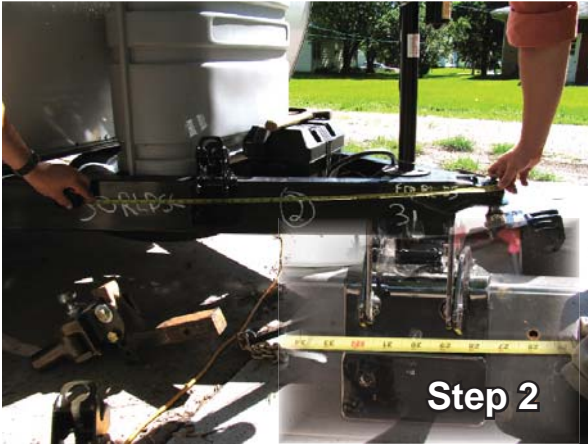
WARNING
 - USE ONLY GENUINE FACTORY
 REPLACEMENT PARTS -
 Do NOT substitute homemade or non-typical parts.
 This may cause your carrier to fail and result in injury
 or death. If repair parts or components are needed,
 you may order them through your nearest Blue Ox®
 Dealer or Distributor, or call our 24/7 Customer Care
 Team at (402) 385-3051.



Installation

This section will explain how to install the SwayPro™.

1. Before beginning installation, park the tow vehicle and trailer in a straight line on firm, Level ground. Air-ride shock absorbers, air springs, or automatic leveling systems on towing vehicles should be disabled or deflated to minimum recommended pressure prior to SwayPro installation.
2. Measure 29" back from the center of the ball coupler to the center of the bracket and mount rotating latches to the trailer frame. Remove or relocate obstructions on the trailer frame (tank covers, etc) if necessary. Finger tighten the bolts on the rotating latch.
3. Raise and/or lower the trailer jack to level the trailer. Use leveling bubbles (if available) and/or a tape measure to verify.
4. Measure the distance from the ground to the top of the coupler and note below.
Measurement A: _____
5. **On the towing vehicle**, measure the distance from the ground to the top of the fender well and note below.
Passenger's Side Front
Measurement B: _____
Passenger's Side Rear
Measurement C: _____
6. Install appropriate ball (not included) to match coupler onto the hitch head per ball manufacturer's instructions. Use the 1.031 ID spacer tube for 1" ball shank. The hitch ball capacity must meet or exceed the gross trailer weight rating. A 1 inch rise ball will be needed for 5 inch tall tongue tube, a 2 inch rise ball will be needed for 6 inch tall tongue tube. This is due to the needed clearance when in operation.





Installation (con't.)

7. On the hitch head, turn thumbscrew clockwise all the way in. Insure the thumbscrew can easily be adjusted in either direction. Adjust allen screw counterclockwise to maximum adjustment.



8. Insert the hitch mount receiver into the tow vehicle receiver and secure with 5/8 x 3 pin and clip. *Note: If necessary, the hitch mount may be inverted in the receiver to accommodate greater coupler heights.*



9. Using Measurement A and the formula below, determine the appropriate ball height for installing the hitch head to the hitch mount receiver.

For 1/2 ton tow vehicles

Measurement A + 1/4" per 100 lbs tongue weight = ball height

For example, 700 lbs tongue weight and coupler height of 20" would be:

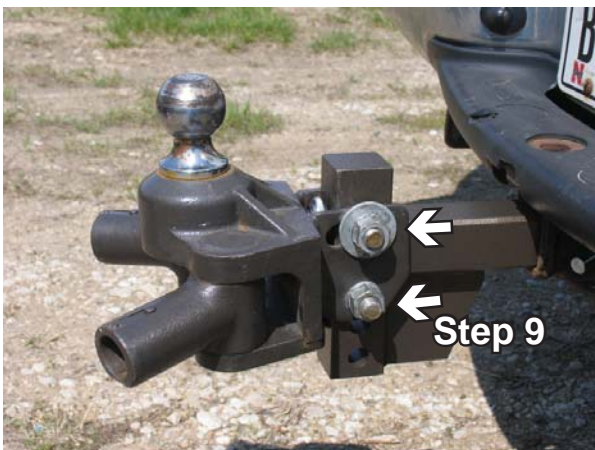
$20 + 1\ 3/4" = 21\ 3/4"$ appx. ball height.

For 3/4 and 1 ton tow vehicles

Measurement A + 1/8" per 100 lbs tongue weight = ball height

For example, 700 lbs tongue weight and coupler height of 20" would be:

$20 + 7/8" = 20\ 7/8"$ appx. ball height.



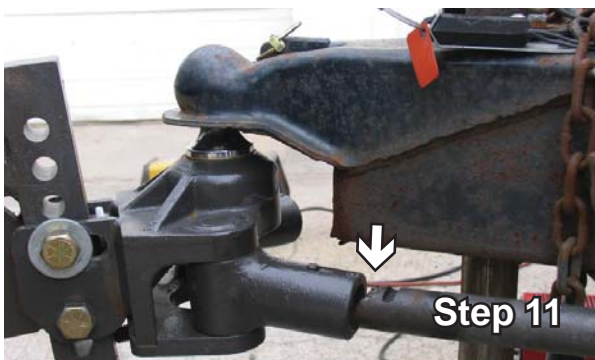
Align the hitch head to the hitch mount receiver holes at the appropriate height and install one 3/4-10 x 4" hex bolt, two 3/4" flat washers (one each side of receiver), one 3/4" lock washer and one 3/4" hex nut into the upper hole and one 3/4-10 x 4" hex bolt, one 3/4" lock washer and one 3/4" hex nut into the lower hole. Do not torque the bolts yet as further adjustment may be needed. Finger tighten the hitch head allen screw against the hitch mount receiver.



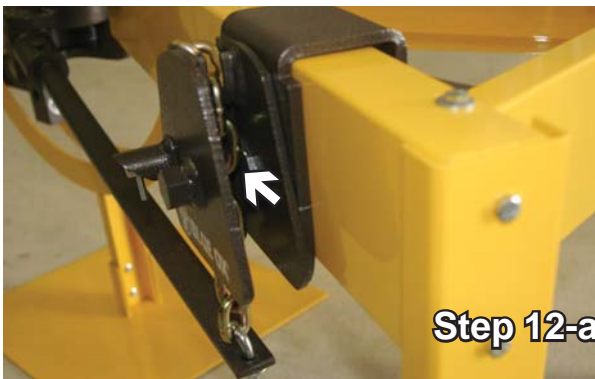
Installation (con't.)



10. Hook the coupler to the ball per manufacturer's instructions and raise the front of the trailer and rear of the towing vehicle 3-5" with the tongue jack.



11. Slide weight distributing bars, slotted side up, into the hitch head bar pivots until the lock snaps.



12. Release the rotating chain bracket by rotating the lock pin. Rotate the bracket using the wrench and turn clockwise until the chain slot is on the bottom. Insert chain with desired chain link in slot of rotating latch and using the wrench rotate the bracket counterclockwise until the lock pin engages in the lock hole. Do the same on the other side.

IMPORTANT: The weight distribution bar chains must be straight up and down in the center of the rotating latch with chain links equal on each side. Reposition the rotating latch along the trailer frame as necessary.



Correct

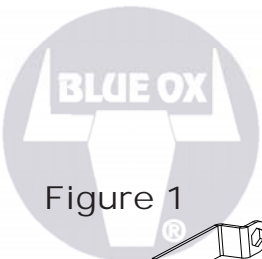
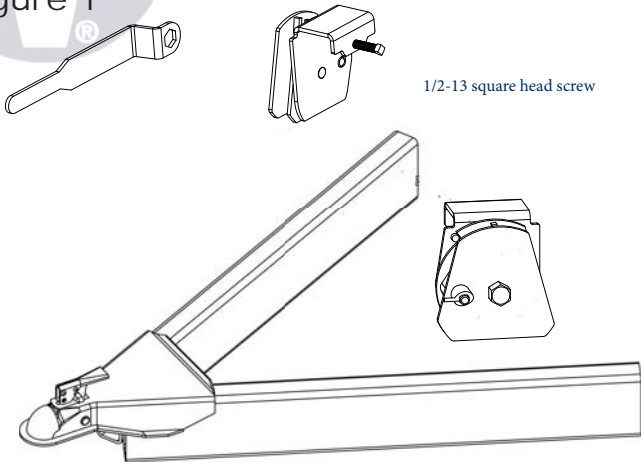


Figure 1



1/2-13 square head screw

Installation (con't.)

13. Pull out and release the bracket lock, rotate the latch with the latch tool and remove the chains. Complete the installation of the rotating latches by using the method below:

(see Figure 1):

Tighten and torque the 1/2 -13 square head screw firmly against the trailer frame.

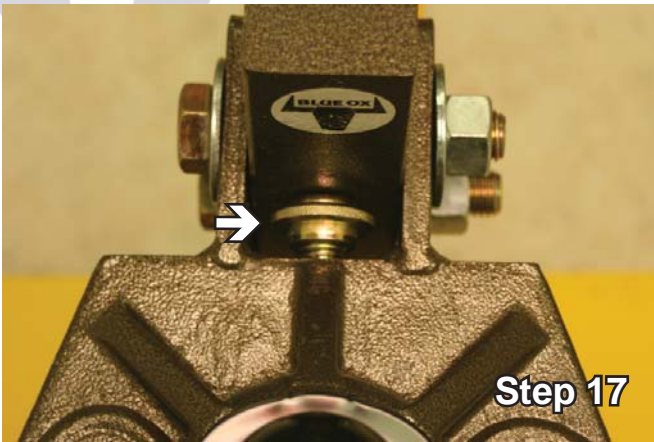
14. Reattach the chains and lock the rotating latch (reference step 12 if necessary).
15. Raise the trailer jack, allowing the weight of the trailer to rest on the towing vehicle.
16. Repeat Measurements B and C (reference Step 5) and insure that the front and rear fenders are proportioned equally (up to 1/2" variance is acceptable).

HITCH BALL TORQUE

1 inch	250 ft. lbs.
1 1/4 inches	450 ft. lbs.



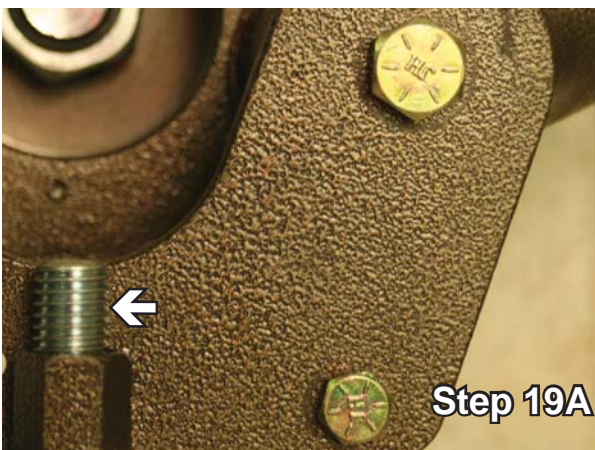
Installation (con't.)



17. Adjust thumbscrew on hitch head until bar pivot pins lean back toward trailer 5° to 7° (the weight distribution bars will be at an approximate 11° angle).



18. Fine tuning of the sway control can be accomplished by tightening the two bolts on the bottom of the head. The torque on these bolts may be increased in 10 ft. lbs. increments to no more than 90 ft. lbs.



19. Using the 1 1/16” and 1 1/8” ratchets, now tighten the bolts and nuts on the hitch head to 300 ft. lbs. Using the Allen wrench, tighten the set screw on the lower plate to 30 ft. lbs. Lower trailer jack so the weight of the trailer is resting fully on the hitch ball.



20. Check that trailer and pickup are level. If not, see Troubleshooting. Installation is complete.



Operation

This section will provide operating information about the SwayPro™.

Hooking Up:

These steps can be performed each time you hook up (after the initial installation of your SwayPro).

1. Insert the hitch mount receiver into the receiver tube knowing the anticipated ball height. Secure with hitch pin and clip. The hitch head and hitch ball are still attached to the hitch mount receiver after unhooking (see *Unhooking* steps next page).
2. Couple the trailer to the hitch head, placing the trailer coupler onto the hitch ball.
3. Insert weight distributing bars (with slotted, angled side up) into bar pivots until it locks in place.
4. Attach chains of the weight distributing bars by inserting them through the rotating latch. Keep track of which chain loop you use. After determining which one is the best one to level the trailer.
5. Using the wrench, rotate the chain in the rotating latch slot over until rotating latch snaps into place. Jacking up the front of the trailer with the jack makes snapping the latches easier.

NOTE: If your weight and/or weight distribution has changed since the last trip, adjustments may be needed. Loosen or tighten chains one link at a time if more or less leveling is needed.



Operation

Unhooking:

These steps can be performed each time you unhook (after the initial installation of your SwayPro).

1. Release both rotating latches by rotating or pulling the bracket lock pin. The wrench will rotate quickly. Hold firmly as the bracket will rotate downward causing a quick jerk on the wrench. Rotate slowly and firmly. Jacking up the trailer takes pressure off the chains and brackets making unlatching easier. (Lower jack before unlatching ball coupler.)
2. Disconnect weight distributing bars by turning 90 degrees or pull out the pins to remove .
3. Unhook the trailer coupler from the hitch.
4. Remove the hitch pin and clip from the hitch receiver.
5. Remove the hitch mount receiver from the receiver tube.

Unhooking is complete. Store the components of your SwayPro in a secure location.



Troubleshooting

Issue: After coupling the trailer to the hitch head, the pickup squats and the front of the trailer dips.

Resolution: Turn the thumbscrew on the hitch head out one full turn. If the pickup has excessive squat and the trailer dips in front, make multiple turns of the thumbscrew. If necessary, raise the chains of the weight distributing bars up by one link or tighten weight distribution bars if pin angles are close to 5°.

Issue: After coupling the trailer to the hitch head, the pickup is level but the front of the trailer dips.

Resolution: Adjust the hitch mount receiver higher. Each adjustment up or down equals 1 1/2”.

Issue: After coupling the trailer to the hitch head, the front of the pickup points up.

Resolution: Turn thumb screw on hitch head out until proper levelness of pickup is reached. (2-3 turns at a time)

Issue: There is excessive sway.

Resolution: Excessive sway may indicate that the trailer is improperly loaded. As a guideline, the tongue weight should be 10-15 percent of gross trailer weight. If it is not, redistribute the weight accordingly. If you encounter continuous sway or swaying that does not dissipate quickly, adjust the load and the SwayPro. You may have to repeat adjusting the load and the SwayPro until sway stops. Angle the bar pivot pin angle (top back) towards trailer (should angle back 5°-7°). Adjust the hitch head bolts in 10 ft. lb. increments up to 90 ft. lbs.

Issue: The ride is excessively rough.

Resolution: Spring chain too tight or spring bars too stiff for your tongue weight. Be sure spring chain is set properly. Verify spring bars are properly rated for your tongue weight.

Issue: The head unit isn't clearing the bottom of the tongue during tight turns and backing up.

Resolution: If the tongue of the trailer is 5” or wider, a hitch ball with a rise may be required.

Don't trust your equipment to just any hitch. Instead, rely on strong, durable hitches from the company synonymous with safe, reliable RVing. Blue Ox.

To find the Blue Ox dealer nearest you, visit www.blueox.com or call 402-385-3051.

Serial Number

Customer Service Commitment

Blue Ox® is focused on providing exemplary customer service, as observed in our mission statement and guiding principles. In accordance with this objective, Blue Ox® is proud to provide services such as repairs and general maintenance of Blue Ox® products at over 150 RV Rallies. Look for our Destination America or Blue Ox® service crews at the next rally or race that you attend. If you were not present, you will find an informative, personalized note explaining any services that may have been performed to your Blue Ox® products.

Blue Ox® also offers educational seminars at rallies and through our Parks and Resort teams. In addition, Blue Ox® customers visiting our factory may take advantage of free use of the well-equipped Blue Ox® RV park at no charge to you, our valued and appreciated customer.

