<THESE INSTRUCTIONS MUST BE GIVEN TO THE END USER>



B&W Trailer Hitches

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See Limited Lifetime Warranty at bwtrailerhitches.com/warranty

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1/3" X 2" Hex Cap Screw

Wire Torsion Spring

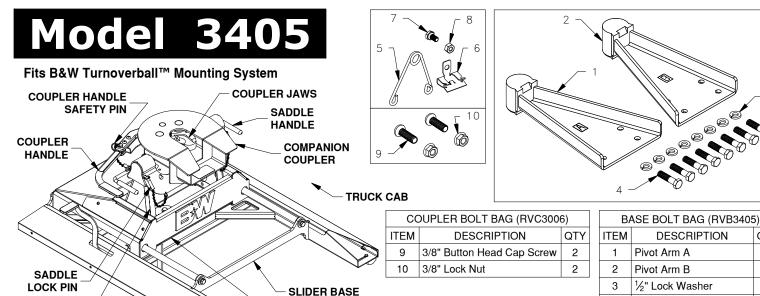
Mounting Clip
1/4" X 1/2" Cap Screw

1/4" Lock Nut

Companion™ 20K Slider Hitch Installation Instructions

20,000 LBS. TRAILER WEIGHT 5,000 LBS. TRAILER TONGUE WEIGHT

Call or Email us for Installation Support hitches@turnoverball.com www.bwtrailerhitches.com



Installation of the Companion hitch requires a large torque wrench capable of measuring 110 ft-lbs, a 3/4" socket, a 7/16" socket, a 9/16" socket or wrench, a 7/32 Allen wrench, and a hammer.

SLIDER CARRIAGE

ATTENTION: This slider base will work with all Turnoverball gooseneck hitches **except** GNRK1309 and GNRK1257.



REQUIRED TOOLS

Failure to comply with the safety information in these instructions could result in serious injury or death.



PIVOT ARM

Read all installation and operating instructions along with all labels before installing or using this product.



Adding components to the chassis of any vehicle can be hazardous. There is potential for damage to vehicle, injury from tool usage and many other hazards. This installation must be completed by someone who is aware of the hazards involved. This person must be knowledgeable of proper safety procedures for a vehicle installation of this nature, and for usage of the equipment required to perform the installation.



Without proper knowledge, towing can be a dangerous activity. Understand all the risks involved with towing before proceeding. For information on towing safety, see "The Trailer Handbook: A guide to Understanding Trailer and Towing Safety" from the National Association of Trailer Manufacturers, www.NATM.com. and your trailer manufacturer's owner's manual.



Do not exceed tow or tongue rating of coupler, tow or tongue rating of hitch, or tow or weight ratings of truck or trailer. See vehicle and trailer manufacturer information for ratings. Exceeding these ratings may cause damage to towing components or loss of attachment between the trailer and truck.



Additional caution must be used when towing a wedge car trailer. Towing stability greatly depends on keeping the center of gravity as low as possible. Load heavy cars over the axles. Never tow with a single car on the front of the trailer. When towing a wedge car trailer, never exceed speeds that are reasonable for the roadway conditions (e.g. turns, going around a curve, etc.). Failure to account for proper trailer center of gravity and speeds that are reasonable for the roadway conditions may cause damage to the truck, trailer, towing components, and loss of attachment between the truck and trailer.

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Do not modify this product in any manner. Doing so could alter its integrity and lead to a loss of attachment between the trailer and the tow vehicle.



A visual inspection of the hitch should be performed before each time you tow. Regularly check that all pinned connections are secure, and that all bolted connections are at the correct torque specification. Check for cracks or damage to the hitch. Do not tow with the hitch if cracks or damage outside of normal wear is found. Towing with a hitch that has cracks or damage could result in damage to the tow vehicle, trailer, towing components or loss of attachment between the tow vehicle and trailer.

PREPARING TO INSTALL

Remove all parts from the packaging and familiarize yourself with all the parts and tools required. Use the parts list on the front page to verify that all parts and hardware are present.

WARNING: Components of the hitch are heavy and cumbersome to handle. Use proper lifting techniques when moving and handling parts.

warning: Whenever the slider base is being moved, the slider handle must be in the locked position, and the carriage must be unable to slide, see Figure A1. Failure to ensure that the handle is in the locked position can lead to property damage or serious injury.

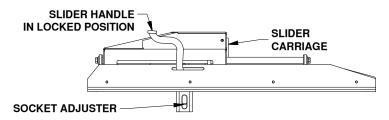


Figure A1: View of driver side of slider base.

INSTALL SLIDER BASE

NOTICE: If truck is equipped with a removable bed liner or mat, it should be removed or it must be cut to allow the base to directly connect with the bed. It is acceptable to install the RV base over a spray-in bed liner.

NOTE: When installing the base in a Toyota Tundra with a composite bed (GNRK1222 gooseneck hitch), Remove the polyurethane pads. The pads are not compatible with the bed geometry.

- 1. Clean bed. Check that the bed of the truck is clean, and that all debris is removed before beginning installation.
- 2. Loosen pads. Loosen the four 1/4" cap screws securing the polyurethane pads on either side of the slider hitch, see Figure B1.

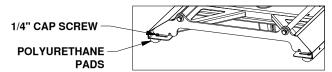


Figure B1: View looking at the slider base from the cab of the truck.

3. Disengage latch pin. Locate the GN latch pin handle of the Turnoverball gooseneck hitch in the driver side fender well. Retract the GN latch pin handle all the way until it stops and then rotate it clockwise. Remove the Turnoverball from the GN hitch receiver socket.

- 4. Position base. With the help of 2 or 3 people, carefully lift and position the slider base into the GN hitch socket in the back of the truck bed. Re-engage the GN latch pin handle by turning it counter-clockwise.
- ▲ WARNING: Check the latch pin under the truck. Make sure that the latch pin has passed through both sides of the socket and that the pin is covered up inside the socket by the socket adjuster, see Figure B2.

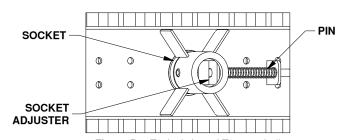
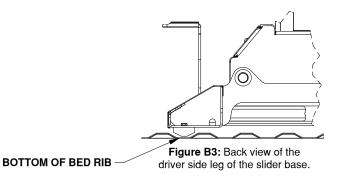


Figure B2: Typical view of Turnoverball gooseneck center under bed.

5. Position pads. Square the slider base legs with the ribs of the truck. Position the polyurethane pads so that they are both in a bottom rib along their entire length, see Figure B3. Tighten the four 1/4" bolts holding the pads to the base.



NOTICE: Nissan Titan trucks: Due to the configuration of the bed ribs on Nissan Titan trucks, it will be necessary for the foot pad to be positioned on top of a bed rib.

- 6. Secure base. Secure the base of the slider to the truck bed by tightening the 1/2" x 3-1/2" draw-down bolt to 80 ft-lbs, see Figure B4.
- **WARNING: DO NOT** lubricate the draw-down bolt, the torque value is for dry threads only.

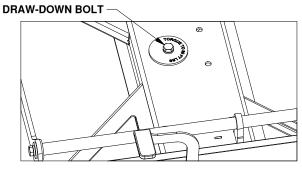


Figure B4: View looking into the top of the slider base.

INSTALL PIVOT ARMS

1. Determine arm mount location. Choose one of the six different locations to mount the arms, illustrated in Table C1. These six locations allow flexibility in coupler height and distance from the cab. Choose a location so that your trailer will be as level as possible and have adequate turning clearance while in the towing position (with the slider in the forward position).

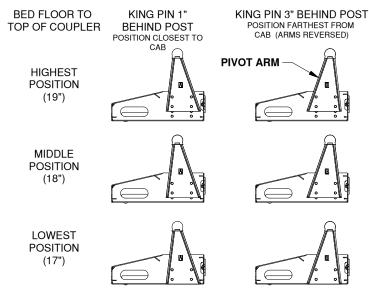


Table C1: Cut away view of slider carriage arm positions.

- **WARNING**: Towing without adequate clearance between the trailer and the tow vehicle may lead to property damage or serious injury.
- 2. Evaluate clearance. Determine if there is clearance between each truck and trailer combination before towing. Measure from the center of the coupler to the cab of the truck and from the king pin or pivot point of the trailer to the furthest forward corner of the trailer, see Figure C2. Compare these measurements to ensure proper clearance when towing. Also, inspect the clearance between the bed sides and the underside of the front of the trailer to ensure there is room for the pitch and roll of the trailer while towing.

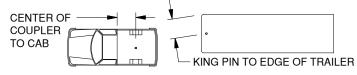


Figure C2: Truck and Trailer

WARNING: Parts of the trailer may strike the tailgate when sliding the carriage rearward. Check the clearance between the tailgate and trailer components such as the trailer tongue or pin box. Failure to check clearance may cause property damage.

B. Inspect threaded blocks. Behind each set of arm mounting holes, inside the carriage is a threaded block. If the blocks shifted during shipping and the threaded holes are not aligned with the holes in the carriage, try using a screwdriver or similar tool to align the blocks, see Figure C3. If a block cannot be aligned through the carriage holes, see the notice below.

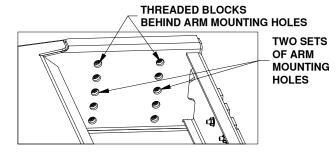


Figure C3: Looking inside the slider carriage.

NOTICE: The threaded blocks can be accessed through the covers on top of the carriage. Each cover is secured with two screws, which can be removed with a 5/32" Allen wrench. The blocks are to be positioned with the larger diameter hole openings against the inside face of the carriage and the corner chamfer on the end of the blocks pointing downward, see Figure C4. With the threaded blocks aligned, reattach the cover with its top flange under the top lip of the carriage. Position the covers so that any gaps are closed or minimized. Reinstall and tighten the screws, see Figure C5. The covers can be replaced before or after the arms are installed.

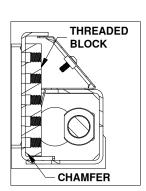


Figure C4: Carriage cross section.

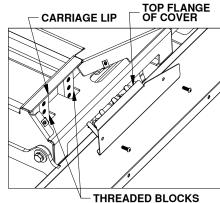


Figure C5: Looking outside the slider carriage.

4. Secure arms. With the flat side of the pivot arms against the bolt plate in the carriage, install four 1/2" x 2" cap screws and four 1/2" lock washers, see Figure C6. Torque each cap screw to 110 ft-lbs.

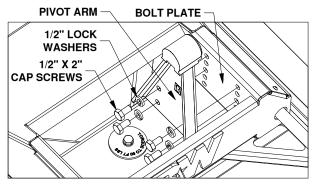
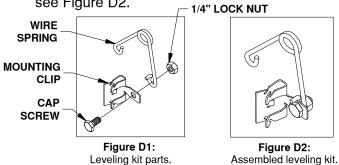


Figure C6: Looking inside the slider carriage.

INSTALL LEVELING KIT

Assemble kit. Locate the 1/4" cap screw and nut, along with the wire torsion spring and mounting clip. Pass the 1/4" cap screw through the mounting clip and the wire spring, as shown in Figure D1. Thread the 1/4" lock nut onto the 1/4" cap screw. Tighten the lock nut just enough that the spring will stay in place but will still be able to rotate around the bolt if needed, see Figure D2.



Attach kit. Locate the flange which will be closest to the truck cab on the driver side pivot arm, see Figure D3. The clip should be placed so that when the spring's coil is in line with the edge of the arm there will be 1/2" of clearance between the bottom of the polyurethane bushing and the top of the spring, see Figure D4. Drive the clip securely onto the flange with a hammer.



Figure D3: Base view.

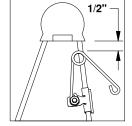


Figure D4: Driver side pivot arm.

INSTALL COUPLER HANDLE

Open coupler. Locate the two 3/8" x 1-1/4" button head cap screws and the two 3/8" flanged lock nuts provided in a bolt bag. Pull out the coupler arm and pin it with the safety locking pin near the base of the arm, as shown in Figure E1.

CAUTION: Pulling the arm out away from the coupler creates a pinch point. Use caution when installing the handle to avoid injury.

Secure handle. Using the button head cap screws and the lock nuts, attach the coupler handle to the arm and tighten, see Figure E1. Pull out the coupler handle safety pin.

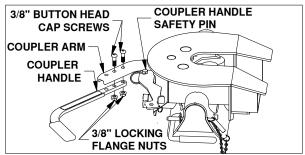


Figure E1: View looking down at side of coupler.

INSTALL COUPLER

Place coupler. Lubricate the polyurethane bushings on top of pivot arms with high grade lithium grease (available at your local hardware/automotive store). Place the coupler over the pivot arms. (The saddle handles should be parallel with the slider base in the latched position.) Place the saddle lock pins through the saddle, then insert the hairpins through the holes in the end of the saddle lock pins to secure the coupler to the pivot arms, see Figure F1.

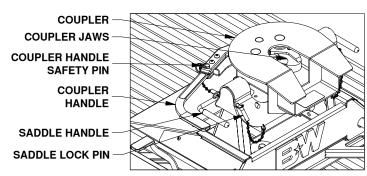


Figure F1: View of slider base and coupler assembled.

Set coupler angle. Adjust the resting angle of your coupler plate by rotating the spring on the driver side pivot arm. Pulling the top of the spring away from the cab will increase the angle of the coupler plate. Set the angle of the coupler so that it will tilt away from the cab when coupling, see Figure F2. Tighten the 1/4" nut once the

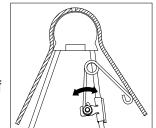


Figure F2: Cutaway view of driver side pivot arm and saddle.

spring's orientation is set.

ATTACHING TRAILER

Remove the safety pin from the coupler handle and open it. Adjust the height of the 5th wheel trailer so that the king pin plate is slightly lower than the top of the coupler. Back the truck toward the trailer, centering the trailer's king pin in the coupler, until the king pin engages the jaws. Close the coupler handle and insert the safety pin through the handle and the coupler. Connect the brake and lighting systems before towing.

MARNING: Failure to correctly close the handle and attach the safety pin may result in a loss of attachment between the trailer and the tow vehicle. leading to property damage, serious injury, or death.

PULL TEST

Ensure the truck is stationary with the emergency brake engaged and the tailgate down, trailer wheels chocked, and landing gear down, supporting the trailer's weight. Confirm no one is between the truck and trailer. Release the emergency brake and engage the trailer brakes. Gently attempt to pull the trailer forward with the truck. When properly connected, the trailer will prevent the truck from moving. If the truck and trailer are not correctly attached the trailer will separate from the truck.

UNATTACHING TRAILER

Lower landing gear and chock the trailer wheels. Raise the trailer until the tongue weight is removed from the truck. Then, unpin the coupler handle and rotate to the open position to unlatch the jaws. If the jaws do not open, readjusting the landing gear may relieve pressure and allow them to open. Use the safety pin to lock the handle in the open position and when you are sure that the landing gear will support the trailer, move the truck forward to release the jaws from the king pin. The jaws will always open when the pressure of the trailer is taken off the coupler as the truck pulls away.

UNINSTALL HITCH

To uninstall the Companion hitch, remove the saddle lock pins, grab the saddle handles, and lift to remove the coupler from the pivot arms. To remove the Companion base, loosen the draw-down bolt and retract the Turnoverball gooseneck latch pin handle all the way out until it stops and then rotate it clockwise. With the help of 2 or 3 people, carefully lift and position the Companion base out of the gooseneck hitch socket.



WARNING: Do not use the slider 5th wheel hitch with any device that changes the location of the king pin pivot point. The king pin on your trailer must rotate in the jaws of the Companion coupler, see Figure G1. Preventing the king pin from rotating within the jaws of the Companion coupler with a wedge, see Figure G2, or any other device, such as a Reese Sidewinder ® or Reese Revolution ®, could result in property damage, serious injury, or death

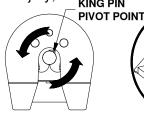


Figure G1: Top view of coupler.

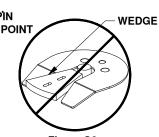


Figure G2: Coupler with locking wedge.

SLIDER OPERATION

WARNING: Use extreme caution when moving the truck and trailer in the maneuvering position. Never exceed 5 mph (roughly walking speed) when in the maneuvering position, doing so may result in property damage, serious injury, or death.



WARNING: The slider handle must be in the locked position before moving the tow vehicle, failure to do so may cause property damage or serious injury.

WARNING: Never hold on to the handle or force it in any direction while the truck is moving. Failure to stand clear of the handle when the slider is in operation could result in serious injury.

CAUTION: Use of the slider mechanism should only

intended for parking maneuvers and not for towing.

Using the slider in any other capacity could result in

be attempted while on smooth flat terrain.

serious injury or death.

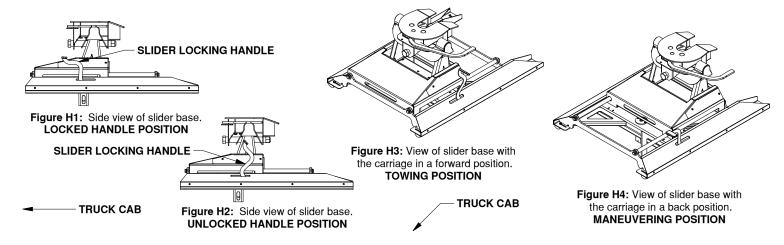
WARNING: The maneuvering position is only

Moving from towing position to maneuvering position. (Figures H3 to H4)

- While the trailer is coupled, set the trailer brakes and/or chock the trailer wheels.
- Pull the handle toward the rear of the truck to move it to the unlocked position, shown in Figure H2.
- Pull the truck forward slowly until the handle falls and is in the locked position, shown in Figure H1.
- Release the trailer brakes, un-chock the trailer and maneuver the trailer as needed.

Moving from the maneuvering position to the towing position. (Figures H4 to H3)

- Once the trailer is satisfactorily positioned, set the 5. trailer brakes and/or chock the trailer wheels.
- Pull the handle toward the rear of the truck to move it to the unlocked position, shown in Figure H2.
- Move the truck slowly in reverse until the handle falls 7. and is in the locked position, shown in Figure H1.
- Release the trailer brakes and un-chock the trailer.



IMPORTANT NOTES:

- Approximately 15%-25% of the trailer weight should be on the hitch.
- The height of the king pin box and pivot arms should be adjusted so that the trailer is approximately level for towing.
- Allow adequate clearance between the bed side and the underside of the front of the trailer for pitch and roll of the trailer.
- Lubricate top surface of coupler with multi-purpose automotive type chassis grease or use a nylon lube plate to provide a lubricated surface.
- Lubricate the polyurethane bushings on top of pivot arms with high grade lithium grease as needed.

- The Slider hitch was designed to be used with the Turnoverball hitch mounting system. Other uses will void the warranty and are expressly prohibited by **B&W** Trailer Hitches.
- Grease jaws with multi-purpose automotive type chassis grease.
- Grease the saddle through the grease zerk approximately every six months with multi-purpose grease. This allows the coupler to pivot GREASE ZERK

freely, see Figure J1. Figure J1: Underside view of coupler.

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