



COMPANION OEM

YOUR TOWING ADVENTURE BEGINS



TOWING ADVENTURE

DON'T WORRY YOUR HITCH WAS MADE RIGHT HERE.

The only thing keeping your truck and your trailer connected are those relatively small pieces of engineered steel. The hitch you choose matters not only to your safety, but to the safety of our roads.

That's why we treat the manufacture of your trailer hitch with the respect it deserves. We insist on American-made steel, like the sheet steel made in Burns Harbor, Indiana or the round bar made at a mill in Norfolk, Nebraska that becomes the gooseneck ball. When the strength and flexibility of the steel can mean life or death, we trust the U.S. steel mills with their finely controlled processes and specifications we can trust.

Only in America could a small-town farmer start a business in a garage and watch it grow the way B&W has over the last 35 years. The 600 employees in Humboldt, Kansas are proof that American Manufacturing can compete in a global economy. We are grateful that you have put your trust in us.

- Joe Works, Owner



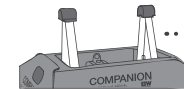
**WELCOME TO THE FAMILY.
YOU MADE A GREAT CHOICE.**

SIMPLE GOALS:

MAKE IT SAFE,
MAKE THE RIDE SMOOTH,
AND MAKE IT REMOVABLE.



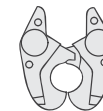
Cam action latching handle*
for easy release, even when
parked on unlevel sites



Polyurethane bushings
provide a quiet, rattle-free
towing experience



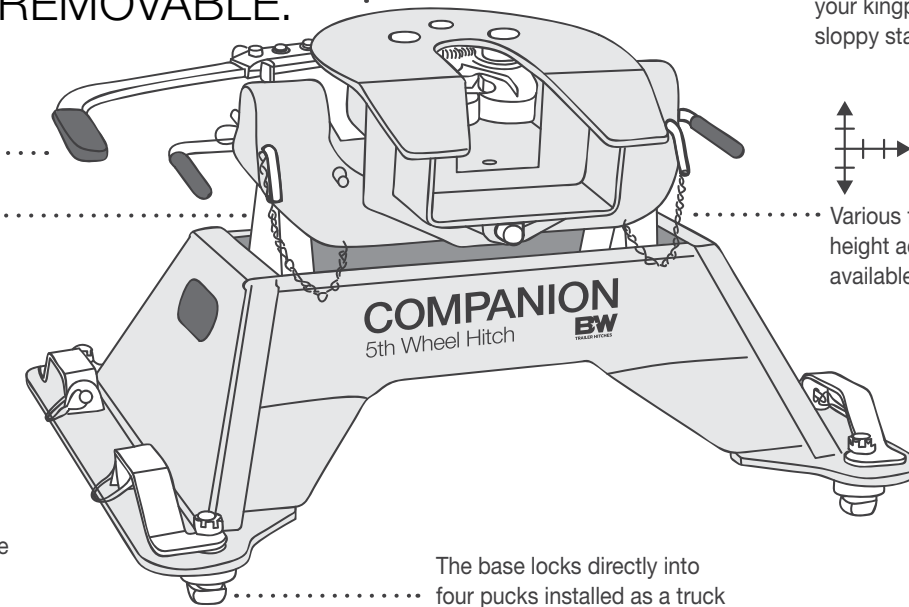
Fully articulating head
allows front-to-back and
side-to-side pivoting



1" thick, wrap-around jaws fit
your kingpin perfectly, eliminating
sloppy starts and stops



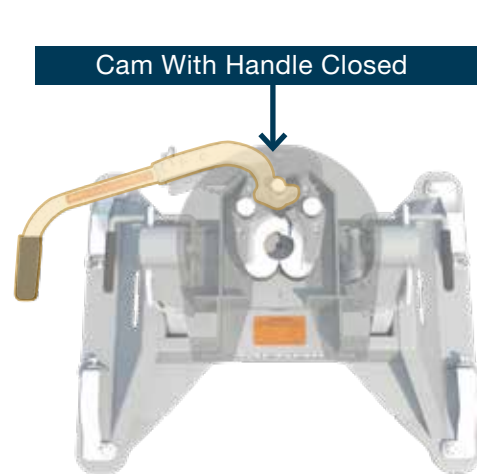
Various front-to-back and
height adjustments are
available with each model



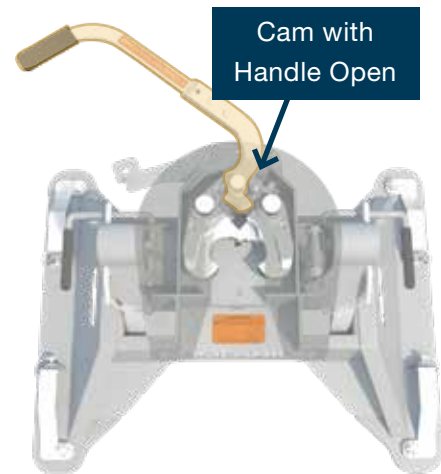
The base locks directly into
four pucks installed as a truck
factory prep package option

THE B&W DIFFERENCE

Our jaws are a full inch thick cast material and the left and right jaw are machined together to create a precise connection to your kingpin. Then the jaws are wired together, plated, and assembled as a pair. Learn more about this process on the B&W Trailer Hitches' YouTube channel.



We designed our jaws and handle to work with a cam mechanism. When the handle is pinned closed, the cam keeps the jaws from opening.



When the handle is open the cam allows the jaws to open, even if you are in a bind because of unlevel ground. If the handle is open, you may go ahead and drive out of the jaws. They will open as you pull away.

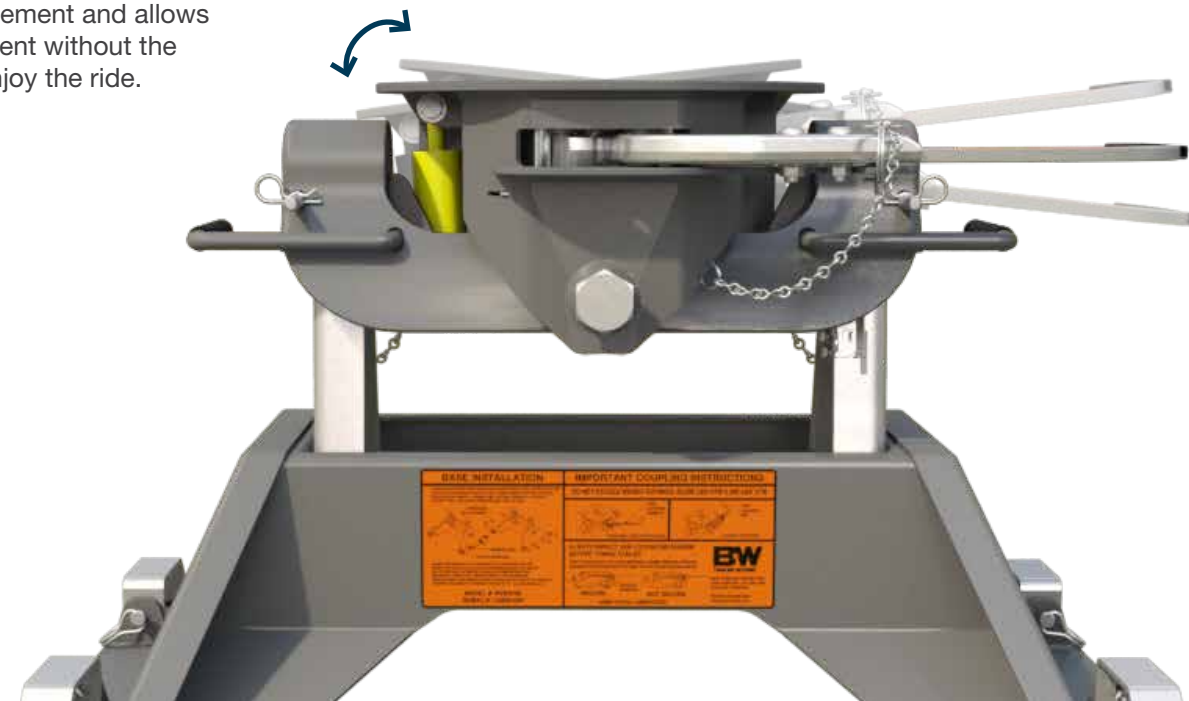
ABSORBING THE SHOCK

The Companion allows side-to-side movement and articulation when you are maneuvering or on uneven ground.

The shock absorber, located on one side of the coupler, cushions that movement and allows gentle side-to-side movement without the slamming. Sit back, and enjoy the ride.

JUST HOW TIGHT ARE OUR PROCESSES?























Machining on the jaws must be $\pm .002$ of an inch. (A piece of paper is about twice that thick.)



ADJUST ARMS FOR PROPER CLEARANCE

INSTALLING PIVOT ARMS

Mount the pivot arms using one of the locations illustrated. These locations allow flexibility in coupler height (vertical adjustment) and distance from the cab (horizontal adjustment). Choose a location so that your trailer will be as level as possible and have adequate turning clearance while towing.

RAM COMPANION OPTIONS					FORD & GM COMPANION OPTIONS			
		Horizontal Adjustment				Horizontal Adjustment		
RAM		4" Behind Axle	2" Behind Axle	Over Axle	2" in Front of Axle	FORD	Kingpin 3" in Front of Axle	Kingpin 1" in Front of Axle
Vertical Adjustment	Highest Position (19")					GM	Kingpin 2" Behind Axle	Kingpin Over Axle
	Medium Position (18")					Vertical Adjustment		
	Lowest Position (17")							
Vertical Adjustment	Lowest Position (16 3/4")					Vertical Adjustment		



WATCH YOUR CAB

Check that you know how sharply you can turn before encountering your cab with your fifth wheel. There are several factors that affect this angle including: the pin box location, the width of trailer, and the shape of the trailer nose.



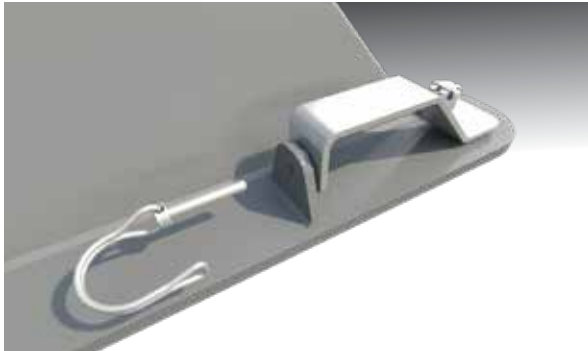
WATCH YOUR BED SIDES

Check for clearance between your fifth wheel and the sides of your truck bed. Allow several inches so that uneven ground doesn't cause contact. Adjust the Companion to a higher position or your kingpin (if it is adjustable) to a lower position to affect this distance.

INSTALLING THE COMPANION

For more information refer to your instruction sheet.

1. Remove the latch pins from each handle and rotate the handles out. Place the Companion base over the attachment points and carefully lower it until the latch cams pass through the floor and the base rests flat against the top of the attachment points.



2. Once the base is in place, turn each of the latch handles so the base is drawn firmly down onto the attachment points. You should feel some resistance with turning the handles as the base is drawn down. If any of the handles will not close or if they rotate freely with no resistance, the tension on the latch handles will need to be adjusted.



If your handle needs tension adjustment. With a pair of needle nose pliers, un-bend and remove the cotter pin installed at the top of the latch cam. Then adjust the height of the castle nut.

To loosen the latch handle (handle is difficult to rotate or cannot be closed) rotate the castle nut counter-clockwise (loosen) with a 15/16" wrench or socket.

To tighten the latch handle (handle rotates without any resistance) rotate the castle nut clockwise (tighten) with a 15/16" wrench or socket.

Use trial and error to find the correct latch tension for each attachment point. After the tension is set, replace the cotter pin and re-bend the ends. You may have to rotate the castle nut slightly to allow the cotter pin to pass through.



3. With the base firmly held down and each latch handle closed, replace the latch pins removed in step one. Place the coupler on the pivot arms and pin in place.

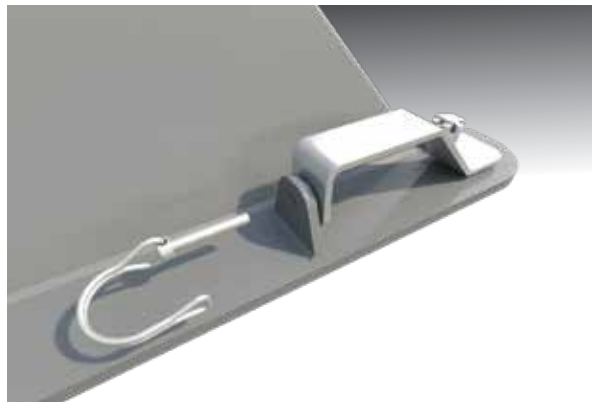


REMOVING THE COMPANION

- 1.** Unpin and remove the coupler head.



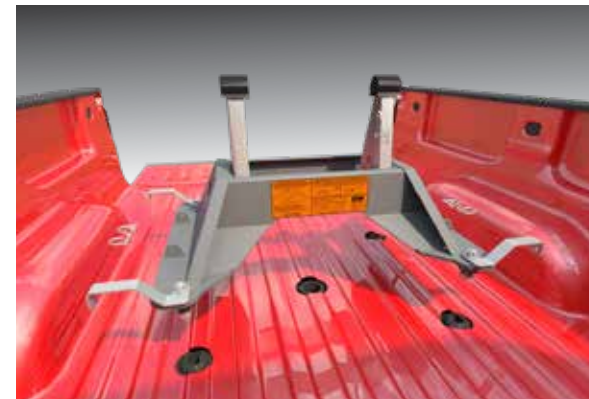
- 2.** Remove the latch pins from each of the handles.



- 3.** Turn latch handles to the open position.



- 4.** Lift the base straight up and out of the attachment points.



KNOW BEFORE TOWING

It is important to learn your manufacturer's weight limits (truck, fifth wheel, and hitch). Detailed instructions for comparing these weight limits to the actual weights of your set-up are found on the next few pages.

Truck manufacturers give their trucks specific ratings after extensive testing. Tow ratings are based on the capacity of a truck's engine, transmission and brakes to safely handle the weight of a loaded trailer. For Gross Weight Ratings, the truck's tires, frame, and suspension must be able to bear the load. Even if your Companion fifth wheel hitch is rated to tow your load, never exceed your truck's weight ratings.

All of our hitches are tested for both strength and durability according to SAE J-2638, the latest standard for fifth wheel and gooseneck hitches.



FINDING MANUFACTURER WEIGHT LIMITS

Information for 2010 and newer truck models can be found on B&W's website, HowMuchCanITow.com.

Locate your **Gross Vehicle Weight Rating (GVWR)**.

This is the maximum allowable weight of the fully loaded vehicle.

You can find this, most likely, on the sticker inside your driver's side door.

You should also locate your **Gross Combined Weight Rating (GCWR)** from your truck manufacturer. This is the maximum allowable weight of the tow vehicle and the loaded trailer including all cargo and passengers. Find this in your owner's manual or by calling your truck dealer.

And finally, locate your **Max Tow Rating**.

It is sometimes located in the truck owner's manual or look for it at trailerlife.com/trailer-towing-guides.

B&W recommends that your **Vertical Towing Weight Rating (VTWR)** for your hitch be no more than 25% of your truck's Max Tow Rating. Make this calculation: $\text{Max Tow Rating} \times .25 = \text{VTWR}$

Once you have located your truck manufacturer's weight ratings, transfer them into the corresponding boxes on the next two pages.

GVWR

GCWR

MAX TOW RATING

VTWR

Without proper knowledge, towing can be a dangerous activity. If you are new to towing, we recommend

**"The Trailer Handbook:
A Guide to Understanding
Trailer and Towing Safety"**

from the National Association
of Trailer Manufacturers.
This booklet is available by
going to NATM.com.



FINDING YOUR ACTUAL WEIGHTS

Take your loaded truck and loaded trailer to a scale at a truck stop, quarry or material supply center. For a small fee you can weigh your tow vehicle and trailer on their scale.



	MUST BE MORE THAN	
GVWR *		<i>your GVW</i>



	MUST BE MORE THAN	
GCWR *		<i>your GCW</i>

1. Find your GVW (Gross Vehicle Weight)

Weigh just your truck with a full tank of gas, all your passengers and items in the cab and truck bed with your trailer loaded and attached, but not on the scale.

Do Not Exceed Your Truck Manufacturer's **GVWR**

2. Find your GCW (Gross Combined Weight)

Weigh your fully loaded truck and trailer including all cargo, a full tank of gas and passengers.

Do Not Exceed Your Truck Manufacturer's **GCWR**

* Transfer Manufacturer's Ratings from previous page.



	–		=	
<i>your GCW</i>		<i>your Truck Weight</i>		<i>your Towing Weight</i>



	MUST BE MORE THAN	
MAX TOW RATING		<i>your Towing Weight</i>

	–		=	
<i>your GVW</i>		<i>your Truck Weight</i>		<i>your VTW</i>



	MUST BE MORE THAN	
VTWR *		<i>your VTW</i>

3. Find your Towing Weight

Weigh your loaded truck without the trailer attached. This is your truck weight.

Subtract your Truck Weight from your GCW. This is your towing weight.

4. Find your VTW (Vertical Tow Weight) also known as Tongue Weight

Subtract your Truck Weight from your GVW.

IMPORTANT!

Even though you may be under your vehicle's Max Towing Rating, when your Gross Vehicle Weight (GVW) goes up, (more passengers, more cargo) your ability to tow the Max Towing Rating may not be possible, because:

THE GROSS COMBINED WEIGHT RATING (**GCWR**) MUST NOT BE EXCEEDED.

ATTACHING YOUR TRAILER

1. Remove the coupler cam handle safety pin and use the cam handle to open the coupler jaws.



2. Adjust the height of the fifth wheel trailer using the jack so that the kingpin plate is slightly lower than the top of the coupler.

3. Back the truck towards the trailer, centering the trailer's kingpin in the coupler, until the kingpin has engaged the jaws.



4. Ensure that the coupler cam handle has completely closed and insert the cam handle safety pin through the cam handle and the coupler.



5. Hook up brake and lighting connections before towing.



CONDUCT A SAFETY TEST

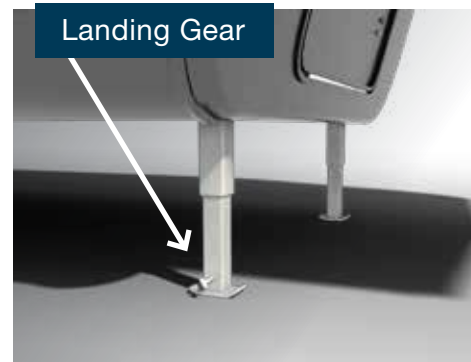
Before towing, you should conduct a safety test to make certain that you are properly hitched.

1. Place the truck in 'park', and put the emergency brake on.

The trailer should have wheels blocked:



The trailer's landing gear should be firmly on the ground, supporting the weight of the trailer:

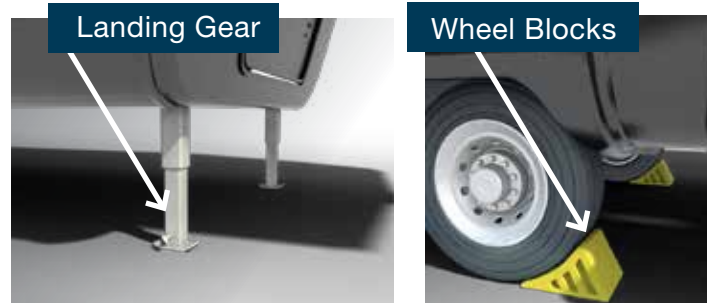


2. Make sure that no one is between the truck and the trailer. Keep your tailgate down. Release the emergency brake and apply the trailer brakes.
3. Try to pull the trailer forward with the truck. If the trailer is properly hooked up, the wheel blocks and trailer brakes should not allow the truck to move forward.
4. If the trailer is not hitched correctly, the trailer will separate from the truck. However, with the landing gear resting firmly on the ground, it will support the trailer and not allow it to drop or fall on the truck sides.



DISCONNECTING YOUR TRAILER

- 1.** Lower landing gear and chock the trailer wheels.



- 2.** Raise the trailer until the tongue weight is removed from the truck.

- 3.** Unpin the coupler handle and rotate to the open position to release the jaws.



- 4.** 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 kingpin.

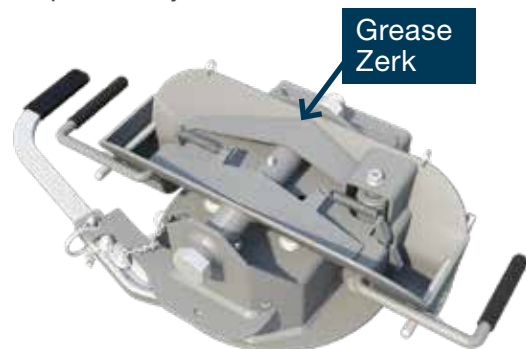
- 5.** If the jaws do not open, that may be an indication that there is still upward pressure on the jaws. Readjusting the landing gear may relieve that pressure. However, if the handle is open, the jaws will always open as you pull away.



HITCH MAINTENANCE

There are four places on the Companion that you should lubricate regularly.

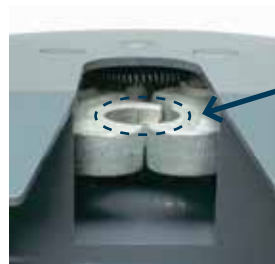
1. Grease the saddle through the grease zerk approximately every six months with multi-purpose grease. This allows the coupler to pivot freely.



3. As needed, grease the polyurethane bushings with high-grade lithium grease.



2. Spread a thin layer of multi-purpose grease around the inside surface of the jaws where they grasp the kingpin. You may also want to apply some grease to the kingpin on your trailer.



Grease
Inside
of Jaws

BW
TRAILER HITCHES

MULTI-PURPOSE
WHITE LITHIUM GREASE

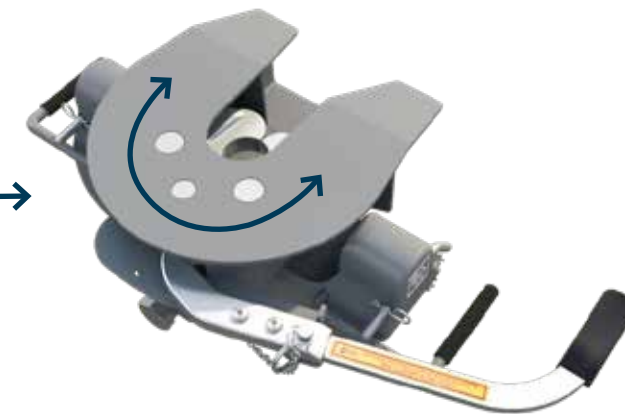
- Lubricates and Protects
- Water Resistant
- Single Use

LOVE YOUR HITCH
LONGER!

Net Wt. 7 g

4. Lubricate the top surface of the coupler with automotive type chassis grease or use a nylon lube plate to provide a lubricated surface.

Grease
Top
Surface
of the
Coupler



Here is your first
grease packet to get
you started. If you
need more, feel free
to contact us at
800-248-6564.



LUBE PLATES

Lube plates come in all sizes. We recommend a 10" version, like this one infused with graphite, available at bwtrailerhitches.com.

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**AN ACCIDENT RARELY
HAPPENS WHEN A
HITCH IS BRAND NEW.
IT HAPPENS AFTER
YEARS OF WEAR FROM
THE ROAD.**

**TAYLOR JONES,
DIRECTOR OF ENGINEERING**



Watch how
we test.

WHAT TESTING STANDARDS EXIST TODAY FOR GOOSENECK AND FIFTH WHEEL HITCHES?

SAE J2638 is the standard that establishes the minimum performance criteria for gooseneck and fifth-wheel hitches up to 30,000 lbs. Currently, the standard is a recommended practice and NOT a requirement to sell or use a trailer hitch.

However, I strongly believe that anyone towing a gooseneck or fifth-wheel should be using equipment, whether it's ours or another brand, that has been tested and passes the J2638 standards. I recommend customers ask before buying.

WHAT DOES SAE J2638 REQUIRE?

The standard requires hitches to complete non-independent tests without loss of attachment. This means that if the damage occurred while driving, it would not allow the trailer to separate from the truck.

The nine tests include static tests of force against the hitch in six directions and three dynamic tests of 300,000 cycles each. And while the standard allows you to use a different specimen for each test, my personal requirement for B&W is that a single specimen pass the dynamic tests and then also pass the static tests. I think this reflects what happens in the real world. An accident rarely happens when a hitch is brand-new. It happens after years of wear from the road.

HOW DOES B&W USE THE TESTING STANDARD?

Before we build a trailer hitch, we model it using CAD software. Then, in a digital environment, we subject it to the types of forces we know exist, using FEA (Finite Element Analysis). This modeling gives us a good idea of what we will see on the testing equipment and in real situations. From there, a prototype is built and we run it through the full gamut of J2638 tests at the max tow rating for the truck it is designed to fit.

After the J2638 testing is complete, we also subject our designs to real world testing by using them to tow heavy trailers with different types of loads. We've been collecting data on how hitches perform for a long time. When we see hitches that have been in accidents, it confirms the data that we have. It's reassuring to see our hitches perform on the road the way we predicted in the lab.

TESTING TERMINOLOGY



STATIC

Load is applied at an even rate to determine the structural integrity and absolute strength of the structure. Static tests simulate extreme load situations, such as hard braking.

DYNAMIC

A load is applied, released, then applied again to determine the overall structural integrity and its resistance to fatigue failure. Dynamic tests simulate thousands of miles of extreme use.



PLAIN TALK ABOUT OUR WARRANTY

We are confident that our products are made without design or quality defects. However, if you believe that one of our products doesn't live up to our standards, we would make it right with you, our customer.

If your product suffers damage because of an accident or misuse on your part, we will work to get you back on the road with as little cost and hassle to you as possible, because that is just being a good neighbor.

We can't keep your product in 'new' condition. Your product, and the finish will age through normal wear and tear. You should only use our products in the manner intended in their design. Most of our products require some maintenance to continue to work as they did when they were new.

We appreciate it when our customers register their products with us. However, we offer our warranty even if you don't.

To register your product or download a copy of our limited lifetime warranty, visit www.bwtrailerhitches.com/warranty.



OUR AMERICAN DREAM STORY

Like many, ours began in a garage in 1987, with two men and an idea. Roger Baker and Joe Works (the 'B' and the 'W') began building custom truck beds and quickly recognized a way to improve the inconvenience of a gooseneck ball permanently welded in the bed. They designed a gooseneck hitch with the mounting hardware underneath the bed and a ball that turned over and stowed where it was used. The Turnoverball® Gooseneck Hitch was born.

A few years later, they applied the same concepts to fifth-wheel hitches. Using the same under-bed mounting hardware and hole in the bed, they designed the Companion™ with a single-point attachment that was removable when not towing. They also designed the Companion to be quiet and smooth when towing.

While competitors take manufacturing to China and Mexico, Joe (Roger retired in 1999) remains committed to using American-made raw materials and American Labor.

“You don’t work for me, you work for the customer. We can compete in this global economy by designing better, using technology, and truly caring about our customers,” Joe affirmed.

Our product line now includes all types of towing products manufactured under the 650,000 sqft. facility. In 2007, Joe began transferring ownership of the company to us, the now more than 600 employee-owners.





800.248.6564

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Live chat with us on our website bwtrailerhitches.com