



X-22

Fifth Wheel Hitch System

**Assembly Instructions
And
User Guide**

Contents

INTRODUCTION	2
X-22 PARTS VIEW	3
CHAPTER 1 – UNPACKING AND ASSEMBLY.....	4
CHAPTER 2 - GENERAL INSTALLATION NOTES.....	6
CHAPTER 3 - X-22 OPERATION AND MAINTENANCE.....	7
TROUBLESHOOTING	10
LIMITED FIVE YEAR WARRANTY	12

Introduction

• RBW Industries ^{inc} takes great pride in our reputation as an innovative manufacturer of high quality products. We have designed the X-22 Fifth Wheel Hitch System to provide a lifetime of dependable service. It's extremely important to fully read and understand all steps of assembly, installation, operation and maintenance of your new X-22 Hitch System to assure safe, reliable operation.

• **Safety is of paramount importance in both installation and use of the X-22 Hitch System. Observe all cautions and notes found in this manual, as well as common sense precautions to ensure the safety of yourself and others.**

• **Caution: The X-22 is recommended for use only in regular size truckbeds. For short bed applications, RBW Industries, Inc. Hitch Model UHS-88-15 or UHS-88-15-S (Side Swivel) should be used in conjunction with the UHS-4800 Bed Slide Extensions. This will help prevent damage to the rear of the truck cab due to insufficient clearance.**

• For best results, RBW Industries, Inc. recommends you have your X-22 professionally installed by a qualified technician.

• The RBW Industries, Inc. X-22 Fifth Wheel Hitch System is designed to tow 5th Wheel Trailers with a Gross Vehicle Weight Rating up to 22,000 lbs. Exceeding the rated capacity is not recommended and voids the warranty.

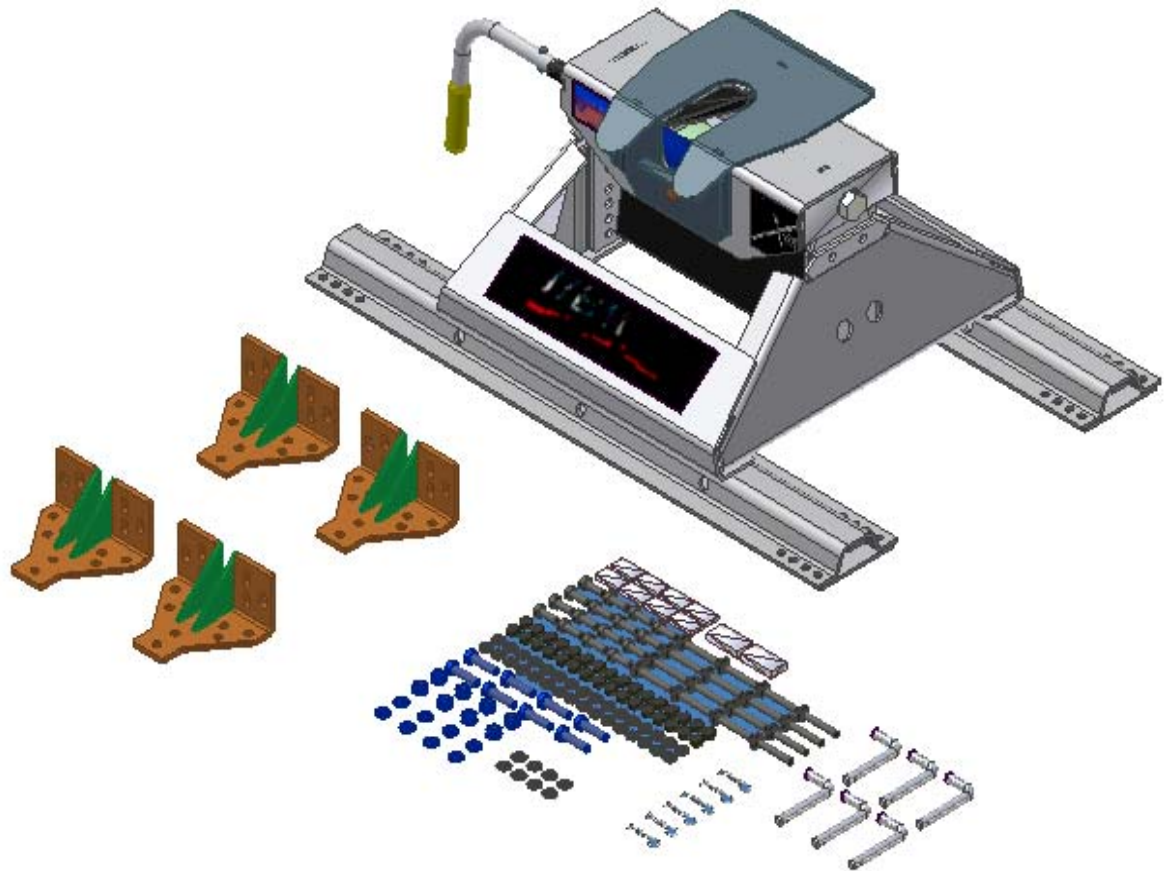
• For ease in attaching the frame brackets, remove one side of the rear tires and block the rear axle. This will allow easy access to the truck frame.

Caution: Make sure three wheels are firmly on the ground at all times and the axle is firmly supported to prevent injury from a falling truck.

• **Caution: Prior to drilling into the truck bed or frame for installation of the hitch mount, be sure to note the vicinity of brake, fuel or electrical lines. Temporarily relocate them if necessary to avoid possible damage.**

• **Caution: On all installations there must be a minimum of 5-1/2" clearance between the bottom of the trailer nose and the top of the truck bedsides. This is to prevent damage to the truck, trailer or hitch due to lack of clearance.**

X-22 X-22 22K Fifth Wheel Hitching System



Chapter

1

Unpacking and Assembly

Unpacking: The X-22 Hitch Assembly ships in two boxes as indicated below, with the bed rails shipped separately. Inspect all parts for damage & verify that all items listed are present.

Box 1 Contains:

X2-1001 X-22 HITCH HEAD (Qty 1)
H-520/H-221 Hitch Handle w/Grip (Qty 1)
X2-500 Hardware Bag (Qty 1)

Box 2 Contains:

X2-1010 Body Assembly (Qty 1)
X2-400 Hardware Bag (Qty 1)
X2-241 Frame Brackets (Qty 4)

Also included:

X2-1020 Bed Rails (Qty 2)

2. Hitch Handle Assembly

- a) Rotate the hitch head handle shaft so the bolt hole is oriented at the top.
- b) Hold the handle with the grip pointed downward and slide the handle onto the handle shaft.
- c) Fasten the hitch handle using the supplied bolt and nylock nut.

3. Hitch Assembly

- a) Attach the hitch handle to the hitch head. (See hitch handle assembly)
- b) Place the bed rails (X2-1020) in the bed of the truck approximately 22" from each other.
- c) Place the main body into the bed rails with the label facing the back of the truck. Secure the main body support members to the bed rails using the 5/8 inch diameter clevis pins. Secure the clevis pins using the large hairclips in the hardware bag.

- d) With the label facing to the rear of the truck, slide the crossbar assembly downward between the two body sides. From the outside, insert four 9/16" diameter bolts into the four holes of each bodyside and through the appropriate crossbar mounting holes. Place a lockwasher & nut on each bolt & finger tighten. Snug down the four nuts on each side using an "X" pattern. Torque the bolts to 65 ft lbs.
- e) Place the hitch head onto the adjustable yoke crossbar and secure with the 1-inch Grade 8 bolts. Torque the bolts to 65-90 ft-lbs. Check for freedom of movement.
- f) Install the Pivot Bolt Restraints with the provided self-tapping screws.
- g) The X-22 Fifth Wheel Hitch System is now ready for installation.

Chapter

2

Installation Procedures

General Installation Notes

- **Caution:** The center of the hitch must be at least 52” from the rear of the cab in order to prevent damage to the tow vehicle and/or coach due to insufficient clearance.

- **Note:** Always mount the frame attachment leg of the frame bracket on the outside of the frame.

- **Note:** The ideal location of the center of the hitch is 2” ahead of the axle. Some applications do not allow this due to spring/shock mount location. In these instances the hitch location may be adjusted fore or aft, but should be no further aft than centered over the axle.

Caution : Moving the hitch too far forward will limit the turning radius of the truck/coach combination.

- **Note:** If a plastic bed liner is installed, the bed liner must be cut out to accommodate the bed rails. This will allow the bed rails to be mounted flush against the bed, and allows installation of required spacers between the bed and bed rails.

- **Note:** Always use spacers H-247 & H-248 to eliminate the risk of crushing or damaging the truck bed. This is especially important with composite truck beds.

- **Note:** Torque all installation hardware to 65 ft. lbs.

For model specific installation instructions, refer to the RBW Industries website at www.RBWindustries.com

If you have questions regarding the installation or use of our products, please call our Technical Assistance Department at 800-451-7821, Weekdays between 8:00 AM and 5:00 PM (Pacific).

Chapter

3

X-22 Operation and Maintenance

RBW Industries ^{inc} takes great pride in our reputation as an innovative manufacturer of high quality products. We have designed the X-22 Fifth Wheel Hitch System to provide a lifetime of dependable service. Following the operating instructions and performing the easy maintenance steps listed below will help you get the most out of your investment.

About Your X-22

The RBW Industries X-22 Fifth Wheel Hitch System is designed to tow 5th Wheel Trailers with a Gross Vehicle Weight Rating up to 22,000 lbs.

Exceeding the rated capacity could create an unsafe towing condition and is not recommended. It has a 4-way swivel head, is height adjustable from 12 to 15 inches in one-inch increments, and is removed from the bed of the truck by pulling 6 retaining pins.

Preparing For First Use

Your X-22 is now installed and you're anxious to be on your way down the road. You're almost there, but take a few minutes to ensure your hitch is setup properly for your particular truck/coach combination by following the steps below.

1. Verify the crossbar is set at the proper height to provide a minimum of 5-1/2" clearance between the bottom of the trailer nose and the top of the truck bedsides, and allows for a level-towing attitude of the coach. If necessary, adjust the crossbar to the proper height, ensuring the fasteners are re-torqued to 65 ft. lbs.
2. Ensure the coach wheels are blocked front & rear & that the rear stabilizer jacks are fully retracted.
3. Level the coach so that the bottom plate of the kingpin box is level with the tabletop or "horseshoe" plate on the top of the hitch head.
4. Rotate the handle of the hitch 90 degrees so that the handgrip is pointing straight back & pull the handle out until the slide bar is held open by the silver trip mechanism.
5. Slowly back the truck so that the bottom plate of the kingpin box slides onto the tabletop & the kingpin slides fully into the throat of the hitch head. Set the parking brake of the truck & place the transmission into park.

6. Visually verify the slidebar has closed behind the kingpin and the kingpin box is resting on the tabletop. Positively lock the slidebar by rotating the handle clockwise so the handgrip is pointing straight down at the bed of the truck.
7. Attach the electrical & breakaway connectors to the proper receptacles in accordance with your coach owners manual, remove the blocks from the wheels of the coach and double check that the hitch is properly attached to your coach.

Once you arrive at your destination, follow these simple steps to properly uncouple your coach from your X-22.

1. Block your coach wheels front & rear.
2. If necessary, start your truck & back up against the kingpin to relieve pressure on the slidebar. Set the parking brake, put the transmission into park and then turn off your vehicle.
3. Extend the front landing gear of the coach until the weight of the coach is just off of the tabletop of the hitch. Do not exceed 1/16" gap between the bottom plate of the kingpin box and the tabletop of the hitch. **Caution: Raising the coach too high while still connected can damage the hitch head as well as components of your coach. Do not extend the rear stabilizers of the coach prior to or during uncoupling.**
4. Disconnect the electrical and breakaway connectors in accordance with your coach owner's manual. Rotate the handle of the hitch 90 degrees so that the handgrip is pointing straight back, then pull the slide bar all the way open. Lock the hitch handle in the open position by rotating it clockwise 90 degrees until the handgrip is pointing down at the bed of the truck.
5. You are now ready to pull your truck slowly away from the coach.

Maintaining Your X-16

1. After coupling, always visually check that the slide bar has closed completely across the rear of the kingpin.
2. After the first 100 miles, and at least once a year thereafter, inspect all bolts for proper tightness. Re-tighten bolts if needed. All fasteners should be torqued to 65 ft lbs., except the hitch head pivot bolts which are torqued between 65-90 ft. lbs to allow for alignment with the pivot bolt retainers.
3. Once or twice a week when traveling, apply a few drops of motor oil to the top of the pivot pin collar (H-161). The pivot pins hold the tabletop or "horseshoe" in place on the hitch head and can be found by locating the hex head bolts on the front and rear of the hitch head.
4. Once or twice a year, apply a light coating of wheel bearing grease to the surfaces of the slide bar that holds the kingpin in place. For best results, apply the grease with the slide bar in the closed position. Then pull the slide bar open and apply a light coating of grease to the slide bar shaft that the handle is attached to. **Caution: The slide bar can close with heavy force. Use extreme care to keep fingers, hands, extremities & clothing out of the path of the slide bar. Failure to do so could result in severe injury.**

5. At least once a year, thoroughly clean and degrease the hitch head assembly. After cleaning, lubricate as noted above.
6. Periodically inspect your X-16 for wear or damage. If excessive wear or damage is found, contact RBW Industries ^{inc} Technical Support Department for assistance at 800-451-7821.

Obtaining Warranty Service

Your warranty statement contains important information. Please take a few moments to turn to the last page of this guide and familiarize yourself with RBW Industries, Inc. warranty policy for your X-22.

For warranty assistance, contact Customer Support at 800-451-7821, Weekdays 8:00 AM to 5:00 PM (Pacific).

Troubleshooting

Problem	What To Look For	Solution
Hitch is difficult to install and remove from the bed rails	Hitch is not assembled correctly	Refer to Hitch Assembly section for proper assembly instructions
	Bed Rails are not parallel with each other	Use a spacer to hold both bed rails parallel while loosening & re-tightening the hex bolts
	Truck bed collapsing around hex bolts in bed rails	Install proper spacers between the bed rail and corrugations. Refer to installation instructions for specific directions.
Hitch will not hook up to trailer kingpin	Incorrect kingpin height	The kingpin plate should be at the same height as the top of the hitch, or at most 1/16" higher
	Excessive angle between hitch head and kingpin.	Level trailer or tow vehicle with blocks under the wheels.
	Lube disc is too thick.	. Check thickness of lube disc. It should not exceed 3/16"
	Bent kingpin.	Contact your local dealer for replacement.
Hitch is difficult to unhook from trailer	Kingpin is resting on the locking bar, preventing it from sliding open.	Remove pressure on the locking bar by blocking the trailer wheels in front and behind. With trailer wheels blocked and truck running, place the truck in reverse, set the parking brake and then put truck into park and turn off the engine. This should relieve pressure on the locking bar.
	Incorrect kingpin height.	The kingpin plate should be at the same height as the top of the hitch, or at most 1/16" higher

	Excessive angle between hitch head and kingpin.	Level trailer or tow vehicle with blocks under the wheels.
	Bent kingpin.	Contact your local dealer for replacement
.. Locking bar is difficult to close or open	New hitch head.	Contact RBW Technical Support for assistance
	Locking bar is worn.	Inspect locking bar for wear or damage. If found, contact RBW Technical Support for assistance.
	Lack of lubrication	Lubricate locking bar and pull handle with a kight coating of grease on all contact surfaces.
Locking bar does not lock into the open position	Missing spring on trip mechanism.	Contact RBW Industries Technical Support for replacement spring.
	Missing or damaged trip mechanism.	Inspect trip mechanism. The trip mechanism should not be bent & the spring should be attached and have good tension.

RBW INDUSTRIES, INC.

X-22 22 K FIFTH WHEEL HITCH SYSTEM

LIMITED FIVE YEAR WARRANTY

RBW Industries, Inc. warrants the X-22 22K Fifth Wheel Hitch System against defects in material and workmanship under normal use and service, ordinary wear and tear excepted, for Five Years from the first date of purchase at retail. Any part found to have a defect in material or workmanship, will be repaired or replaced at the option of RBW when returned to RBW with transportation charges prepaid. This warranty does not cover the condition, durability or appearance of the product finish. If the hitch is damaged as a result of improper installation, alteration, vehicle accident, misuse or unreasonable use, including but not limited to, loading the product beyond the factory rated load capacity, RBW shall not be required to repair or replace such product. In every case, this warranty covers only the defective part and does not provide for reimbursement of the retail price of the part or labor charges. RBW shall not be liable for any incidental or consequential damages for breach of any express or implied warranty on any RBW product. There are no warranties that extend beyond the description of the face hereof. RBW is extending no other warranties, express or implied, nor any warranties of merchantability or fitness for a particular purpose. Any such warranties of merchantability or fitness for a particular purpose are expressly excluded.

This warranty is designed and intended to fully comply with the requirements of the Magnusson-Moss Warranty Act and all regulations issued by the Federal Trade Commission in connection therewith. It is not intended to violate any state law or regulation containing more stringent requirements, and such requirements automatically become part of this warranty insofar as required by that act. The owner has available the legal remedies provided by the Magnusson-Moss Warranty Act, Public Law 93-637, 99 STAT.2183-2193: 15 U.S. Code, Secs 23021-2312, and any applicable state statutes.

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