

13170 INSTALLATION INSTRUCTIONS



Safety glasses should be worn at all times while installing this product.

YEARS: 2014-CURRENT

MAKE: RAM

MODEL: PROMASTER

STYLE: VAN

WARNING: NEVER EXCEED YOUR VEHICLE MANUFACTURER'S RECOMMENDED TOWING CAPACITY

WEIGHT CARRYING: TRAILER WEIGHT:

TONGUE WEIGHT: 500 LBS.

> 15mm 16mm

> > 3/4"

SOCKET

WEIGHT DISTRIBUTION:

TRAILER WEIGHT: N/A LBS.

TONGUE WEIGHT: N/A LBS.

PRO INSTALL TIME: 20 MIN. **NOVICE INSTALL TIME:** 40 MIN.

INSTALLATION REQUIRES:

IF YOU ARE HESITANT TO UNDERTAKE THIS TASK ON YOUR OWN, CONTACT AN AUTHORIZED CURT INSTALLER FOR ADDITIONAL ASSISTANCE.

TORQUE

WRENCH

SAFETY

GLASSES

INSTALLATION TIPS:

5,000 LBS.

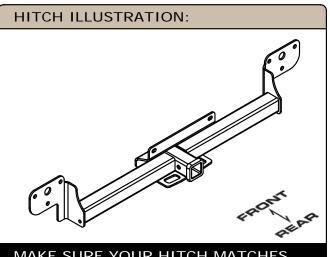
- 1. BEFORE YOU BEGIN INSTALLATION, READ ALL INSTRUCTIONS THOROUGHLY.
- 2. TO EASE INSTALLATION, 2 PEOPLE MAY BE REOUIRED.
- 3. USING PROPER TOOLS WILL GREATLY IMPROVE THE QUALITY OF THE INSTALL AND REDUCE THE TIME REQUIRED.
- 4. NEED HELP OR HAVE SOME QUESTIONS? CALL TECHNICAL SUPPORT AT 800.798.0813

LEVEL OF DIFFICULTY: MODERATE MODERATE CHALLENGING **EASY** - NO DRILLING - FISHWIRE HARDWARE - TEMPORARY PART **REMOVAL** PART REMOVAL

VEHICLE PHOTO:



REPRESENTATIVE PHOTO



MAKE SURE YOUR HITCH MATCHES



RATCHET

TORXBIT

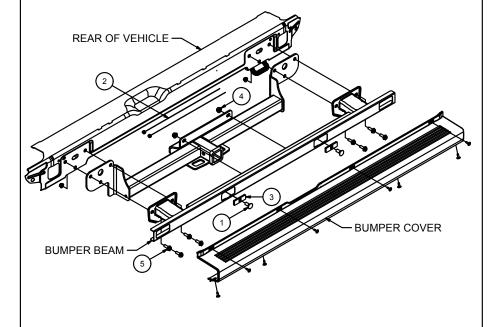
SOCKET

SCAN FOR MORE INFO PERIODICALLY CHECK THIS RECEIVER HITCH TO ENSURE ALL FASTENERS ARE TIGHT AND ALL STRUCTURAL COMPONENTS ARE SOUND

CURT Manufacturing LLC. warrants this product to be free of defects in material and/or workmanship at the time of retail purchase by the original purchaser. If the product is found to be defective, CURT Manufacturing LLC. may repair or replace the product at their option, when the product is returned, prepaid, with proof of purchase. Alteration to, misuse of, or improper installation of this product voids the warranty. CURT Manufacturing LLC.'s liability is limited to repair or replacement of products found to be defective, and specifically excludes liability for incidental or consequential loss or damage. For more information log onto www.curtmfg.com. & for helpful towing tips log onto www.hitchinfo.com 2/19/2015

INSTALLATION WALKTHROUGH:

Parts List			
ITEM	QTY	PART NUMBER	DESCRIPTION
1	2	1/2-13 x 1 1/4	CARRIAGE BOLT
2	2	1_2 FISHWIRE	1/2" FISHWIRE
3	2	CM-SP6	.250 x 1.00 x 3.00" SQUARE HOLE SPACER
4	2	HFN 1213	HEX FLANGE NUT
5	4	M10 - 1.25 x 30 HFB	M10-1.25 x 30 HEX FLANGE BOLT



FISHWIRE TECHNIQUE

INSERT COILED END OF FISHWIRE TOOL THROUGH
HITCH MOUNTING HOLE IN VEHICLE FRAME RAIL
AND OUT THE ACCESS HOLE. PASS COILED
END OF FISHWIRE THROUGH SPACER AND
THREAD BOLT INTO COIL. KINK WIRE
TO KEEP SPACER SEPERATE FROM
BOLT AS SHOWN. PULL
FISHWIRE, SPACER, AND
BOLT THROUGH FRAME
AND OUT MOUNTING HOLE.
USE FISHWIRE TO GUIDE
HITCH DURING MOUNTING AND PREVENT LOSS OF BOLT /
SPACER INSIDE FRAME RAIL.

"NOTE: SOME VEHICLES MAY FISHWIRE THROUGH END OF FRAME"



1. Open the rear vehicle doors to expose the bumper cover and fasteners. Using a T30 torx bit, remove (8) fasteners and the bumper cover. **Note:** If present, disconnect the rear back-up sensor before completely removing the bumper cover.





 Remove (2) M10 bolts and (1) M10 nut securing the bumper beam to the end of the frame, both sides.
 Note: Remove the M10 bolts with a 16mm socket and the M10 nuts using a 15mm socket.





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INSTALLATION WALKTHROUGH:

3. Fishwire the 1/2" carriage bolts and SP6 spacers through the access holes and out the existing holes in the bumper beam.





4. With the hitch side plates flat on the ground, align the center holes of the hitch with the bolts fishwired in the bumper beam and loosely secure with 1/2" flange nuts. Raise the hitch and bumper beam into position by aligning the hitch and bumper beam holes with the holes in the end of the frame. Secure with the M10-1.25 x 30mm hex flange bolts provided and the M10 nuts removed in Step (2).





5. Torque all 1/2" hardware to 110 ft-lbs. Torque all 10mm hardware to 48 ft-lbs.





6. Reinstall bumper cover with fasteners removed in Step (1). Note: If present, reconnect the back-up sensor. You may need to gently flex the cover to align with fastener holes.

INSTALLATION COMPLETE





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TOWING SAFETY INFORMATION

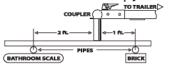
Gross Trailer Weight / GTW

The Gross Trailer Weight is the weight of the trailer & cargo. Measure this by putting the fully loaded trailer on a vehicle scale.



Tongue Weight / TW

The downward force that is exerted on the hitch ball by the coupler. The tongue weight will vary depending on where the load is positioned in relationship to the trailer axle(s). To measure the tongue weight, use either a commercial scale or a bathroom scale with the coupler at towing height. When using a bathroom scale with heavier tongue weights, use the method shown and multiply the scale reading by 3.



Weight Carrying / WC

The total weight of both the trailer and the cargo inside. Never exceed the weight capacity of your trailer hitch.

Weight Distribution / WD

Used to balance the weight of the cargo between the front and rear wheels throughout the trailer, allowing for better steering, braking, and level riding.

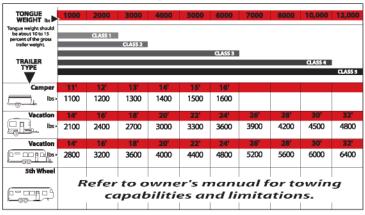




Sway Control

A device used to reduce the lateral movements of the trailer that are caused by the wind. This works in conjunction with a weight distribution hitch. Do not use this on a class 1 or 2 hitch, or with surge brakes.

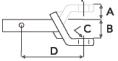
How Much Can You Safely Tow?



Ball Mount

The ball mount is placed inside the opening of the receiver hitch which is mounted to the vehicle. Make sure a hitch pin and clip is properly securing the ball mount to the receiver hitch before you begin towing.

A: Rise. B: Drop. C: Hole Size. D: Length.

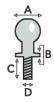


Trailer Ball

The connection from the hitch to the trailer. There are many factors that determine the correct hitch ball:

- Number one is the hitch ball's gross trailer weightrating.
- The mounting platform must be at least 3/8" thick.
- The hole diameter must not be more than 1/16" larger than the threaded shank.
- · Every time you tow, check the nut and lock washer to make sure they are fastened securely.

 • A: Ball Dia. B: Shank Dia. C: Shank Length. D: Shank Rise.



Coupler

The component that is placed over the trailer ball to connect the vehicle to the trailer. Be sure that the coupler size matches the size of the hitch ball and that the coupler handle is securely fastened. To determine what size hitch ball you need for your application you will need to know the size of coupler that is on the trailer. Be sure your coupler is properly adjusted to the ball you are using.

NOTE: For added security the use of safety devices such as Coupler Safety Pins and Locks is strongly recommended.

Safety Chains

Safety chains are a requirement and should be crossed under the tongue of the trailer so that the tongue will not drop to the road if it becomes separated from the hitch. Always leave enough slack so you can turn. Never allow the safety chains to drag on the ground and never attach the chains to the bumper.

Trailer Classification: Safety Chain Breaking Force - Minimum

Class 1: 2,000 lbs. (8.9 kN) Class 2: 3,500 lbs. (15.6 kN) Class 3: 5,000 lbs. (22.2 kN)

The strength rating of each length of safety chain or its equivalent and its attachments shall be equal to or exceed in minimum breaking force the GVWR (Gross Vehicle Weight Rating) of the trailer.

Electrical

Trailer lights, Electric Brakes, Break-away systems - Every time you tow, be sure to check that all components are working properly.

Wiring identification by color:



13170

RAM PROMASTER

2/19/2015

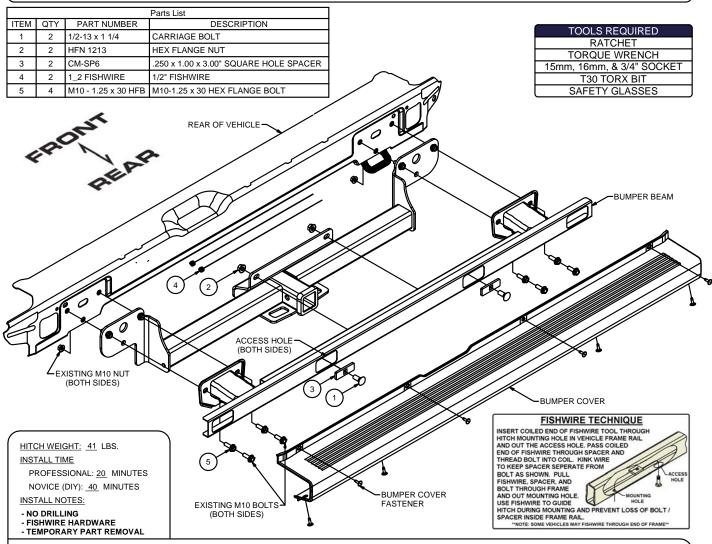
GROSS LOAD CAPACITY WHEN USED AS A WEIGHT CARRYING HITCH: 5,000 LBS. TRAILER WEIGHT & 500 LBS. TONGUE WEIGHT.

DO NOT EXCEED VEHICLE MANUFACTURER'S RECOMMENDED TOWING CAPACITY.

WARNING: ALL NON-TRAILER LOADS APPLIED TO THIS PRODUCT MUST BE SUPPORTED BY 18050 STABILIZING STRAPS.

** FAILURE TO PROPERLY SUPPORT NON-TRAILER LOADS WILL VOID PRODUCT WARRANTY**

HAVING INSTALLATION QUESTIONS? CALL TECHNICAL SUPPORT AT 1-800-798-0813



INSTALLATION STEPS

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