



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

YEARS: 2016-PRESENT

MAKE: KIA

MODEL: SORENTO

STYLE: SUV

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

**WEIGHT CARRYING:**  
 TRAILER WEIGHT: 5,000 LBS.  
 TONGUE WEIGHT: 750 LBS.

**WARNING:**  
 WE RECOMMEND THE USE OF 18050 STABILIZING STRAPS FOR ALL NON-TRAILER (WHEEL-LESS) LOADS. PLEASE SEE THE CURT CATALOG OR VISIT US ONLINE AT [WWW.CURTMFG.COM](http://WWW.CURTMFG.COM) FOR FURTHER INFORMATION.

**PRO INSTALL TIME: 45 MIN.**  
**NOVICE INSTALL TIME: 90 MIN.**

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

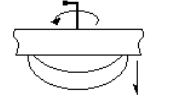
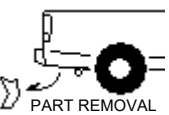
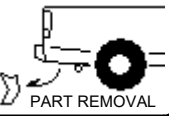

**INSTALLATION REQUIRES:**

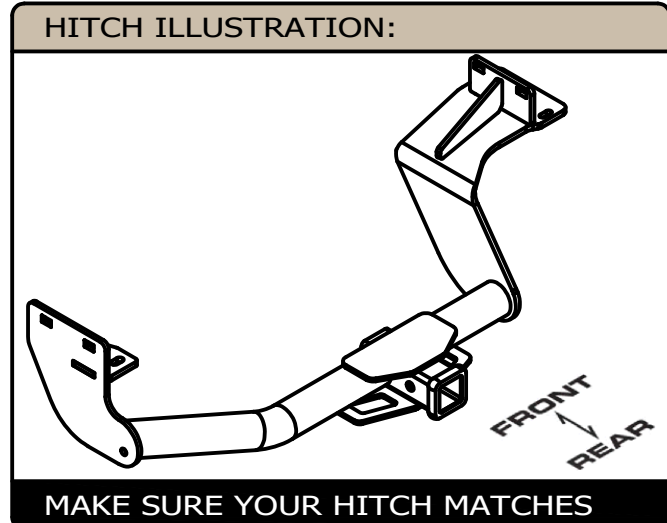
 <b>RATCHET</b>	 <b>TORQUE WRENCH</b>	 <b>3/4" 17mm 14mm 11/16" SOCKET</b>
 <b>10" SOCKET EXTENSION</b>	 <b>SCREW DRIVER</b>	 <b>SAFETY GLASSES</b>

**INSTALLATION TIPS:**

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

**LEVEL OF DIFFICULTY: MODERATE**

EASY	MODERATE	CHALLENGING
	LOWER SPARE TIRE	
	TEMPORARILY REMOVE UNDERBODY PANEL	
	REMOVE FRAME PLUGS	
	TEMPORARILY LOWER EXHAUST	

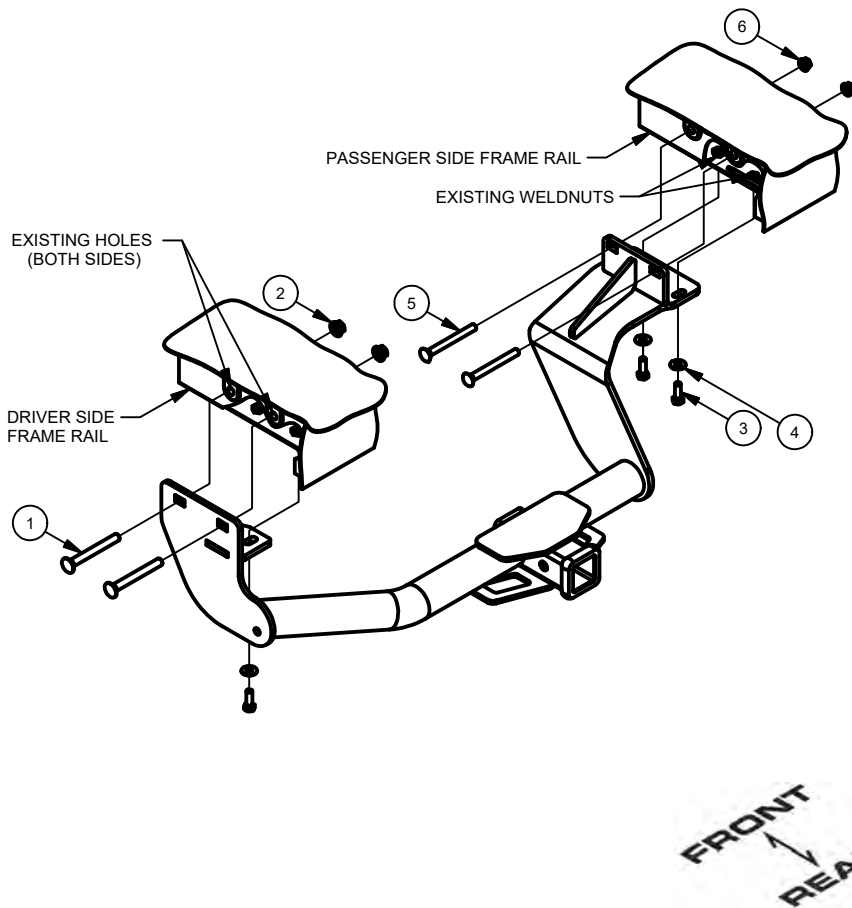


**PERIODICALLY CHECK THIS RECEIVER HITCH TO ENSURE ALL FASTENERS ARE TIGHT AND ALL STRUCTURAL COMPONENTS ARE SOUND**

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](http://www.curtmfg.com), & for helpful towing tips log onto [www.hitchinfo.com](http://www.hitchinfo.com)

# INSTALLATION WALKTHROUGH:

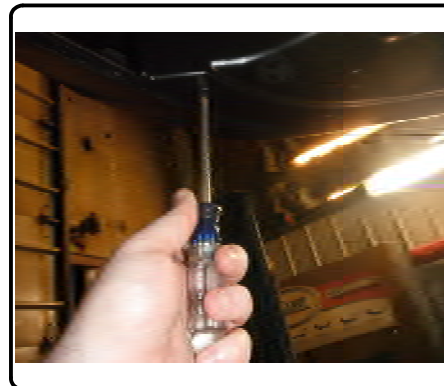
Parts List			
ITEM	QTY	PART NUMBER	DESCRIPTION
1	2	1/2-13 x 4 1/2	CARRIAGE BOLT
2	2	HFN 1213, GR8	HEX FLANGE NUT
3	3	M10 - 1.25 x 30	HEX BOLT
4	3	3/8"	CONICAL TOOTHED WASHER
5	2	7/16-14 x 4 1/2	CARRIAGE BOLT
6	2	7/16-14	HEX FLANGE NUT



1. Temporarily lower spare tire.

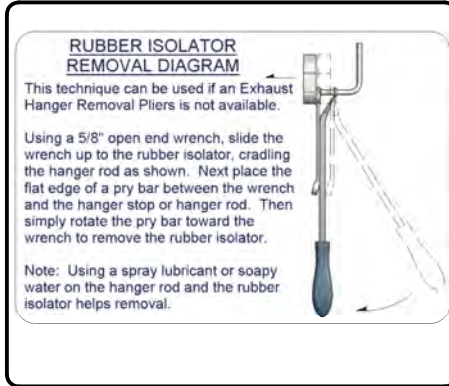
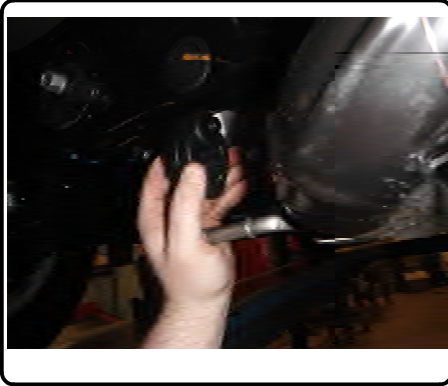


2. Temporarily remove underbody panel on driver side of vehicle by removing (5) screws and (2) nuts. Retain screws for reinstallation of panel.

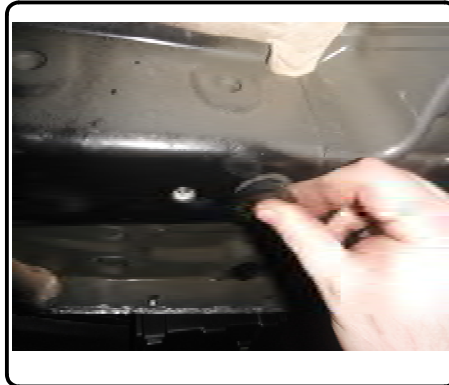
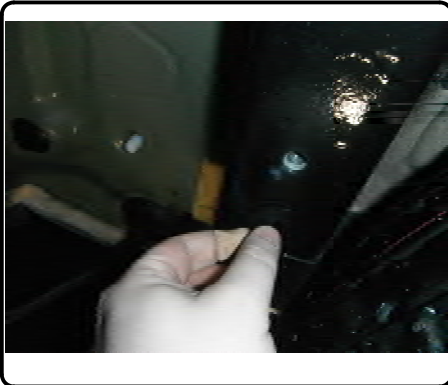


## INSTALLATION WALKTHROUGH:

3. Temporarily lower exhaust by removing (3) rubber isolators. (1) isolator is located toward rear of muffler, (1) isolator is located toward front of muffler and (1) isolator is located on exhaust tube forward of muffler. (See Rubber Isolator Removal diagram)



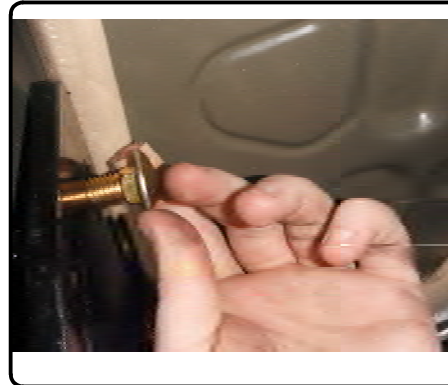
4. Remove (1) rubber plug from bottom of passenger side frame rail and (1) rubber plug from bottom of driver side frame rail. Return plugs to vehicle owner.



5. Raise hitch into position and loosely install (2) M10 hex bolts and (2) 3/8" conical toothed washer into existing weldnuts on passenger side of vehicle and (1) M10 hex bolt and (1) 3/8" conical toothed washer into driver side of vehicle as shown. (See Weldnut Cleaning diagram)

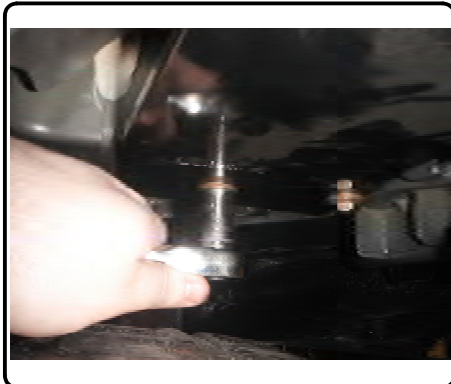


6. Install (2) 1/2" carriage bolts through hitch and existing holes in driver side frame rails of vehicle as shown. Secure carriage bolts with 1/2" hex flange nuts. Install (2) 7/16" carriage bolts through hitch and existing holes in passenger side frame rail of vehicle as shown. Secure carriage bolts with 7/16" hex flange nuts.



## INSTALLATION WALKTHROUGH:

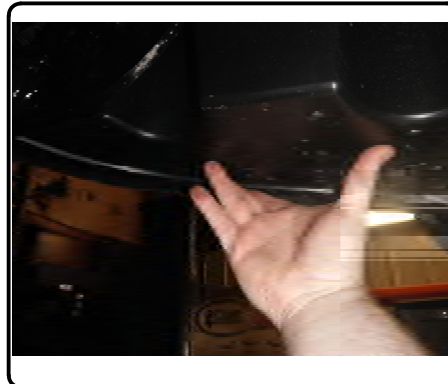
7. Torque 1/2" hardware to 110 lb-ft, 7/16" hardware to 60 lb-ft and M10 hardware to 48 lb-ft.



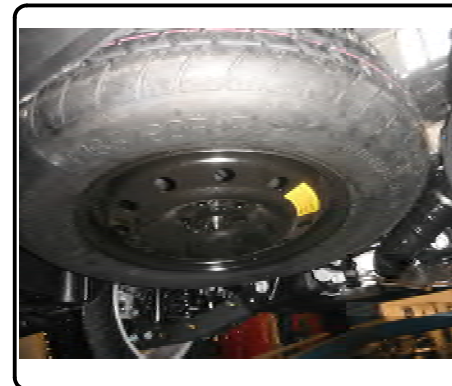
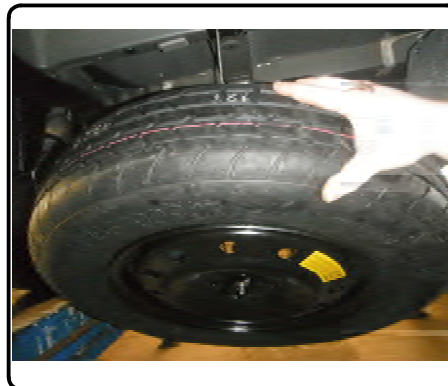
8. Raise exhaust back into position and reattach rubber isolators removed in Step 2.



9. Reinstall underbody panel in reverse order from Step 1.



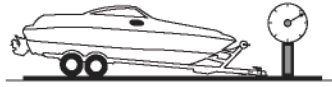
10. Raise spare tire back into position.



## TOWING SAFETY INFORMATION

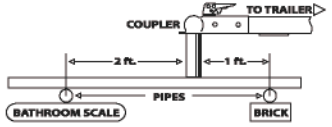
### Gross Trailer Weight / GTW

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?

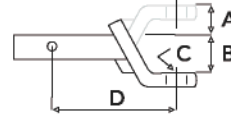
TONGUE WEIGHT lbs	1000	2000	3000	4000	5000	6000	7000	8000	10,000	12,000
Tongue weight should be about 10 to 15 percent of the gross trailer weight.										
CLASS 1										
CLASS 2										
CLASS 3										
CLASS 4										
CLASS 5										
<b>Camper</b>	11'	12'	13'	14'	15'	16'				
lbs	1100	1200	1300	1400	1500	1600				
<b>Vacation</b>	14'	16'	18'	20'	22'	24'	26'	28'	30'	32'
lbs	2100	2400	2700	3000	3300	3600	3900	4200	4500	4800
<b>Vacation</b>	14'	16'	18'	20'	22'	24'	26'	28'	30'	32'
lbs	2800	3200	3600	4000	4400	4800	5200	5600	6000	6400
<b>5th Wheel</b>										

Refer to owner's manual for towing capabilities and limitations.

### 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.

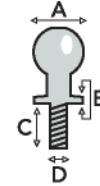
- A: Rise. B: Drop. C: Hole Size. D: Length.



### 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 weight rating.
- 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

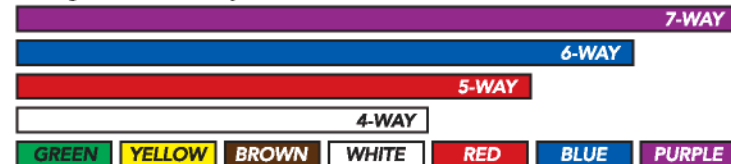
- Class 1: 2,000 lbs. (8.9 kN)
- Class 2: 3,500 lbs. (15.6 kN)
- Class 3: 5,000 lbs. (22.2 kN)

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:



GROSS LOAD CAPACITY WHEN USED AS A WEIGHT CARRYING HITCH: 5,000 LBS. TRAILER WEIGHT & 750 LBS. TONGUE WEIGHT.

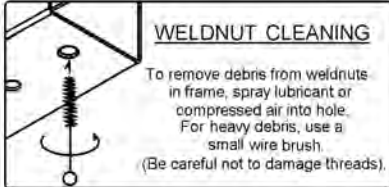
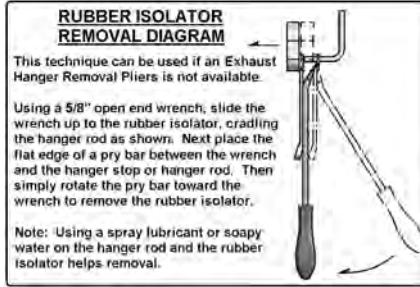
\*\*\*DO NOT EXCEED VEHICLE MANUFACTURER'S RECOMMENDED TOWING CAPACITY.\*\*\*

**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\*\*

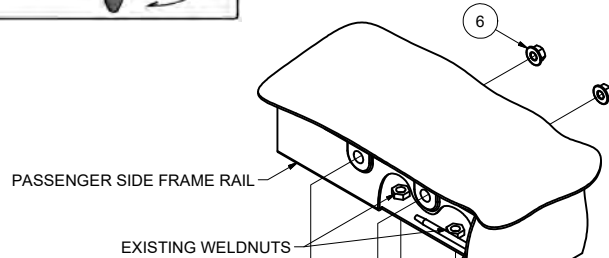
HAVING INSTALLATION QUESTIONS? CALL TECHNICAL SUPPORT AT 1-800-798-0813

Parts List			
ITEM	QTY	PART NUMBER	DESCRIPTION
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2	2	HFN 1213, GR8	HEX FLANGE NUT
3	3	M10 - 1.25 x 30	HEX BOLT
4	3	3/8"	CONICAL TOOTHED WASHER
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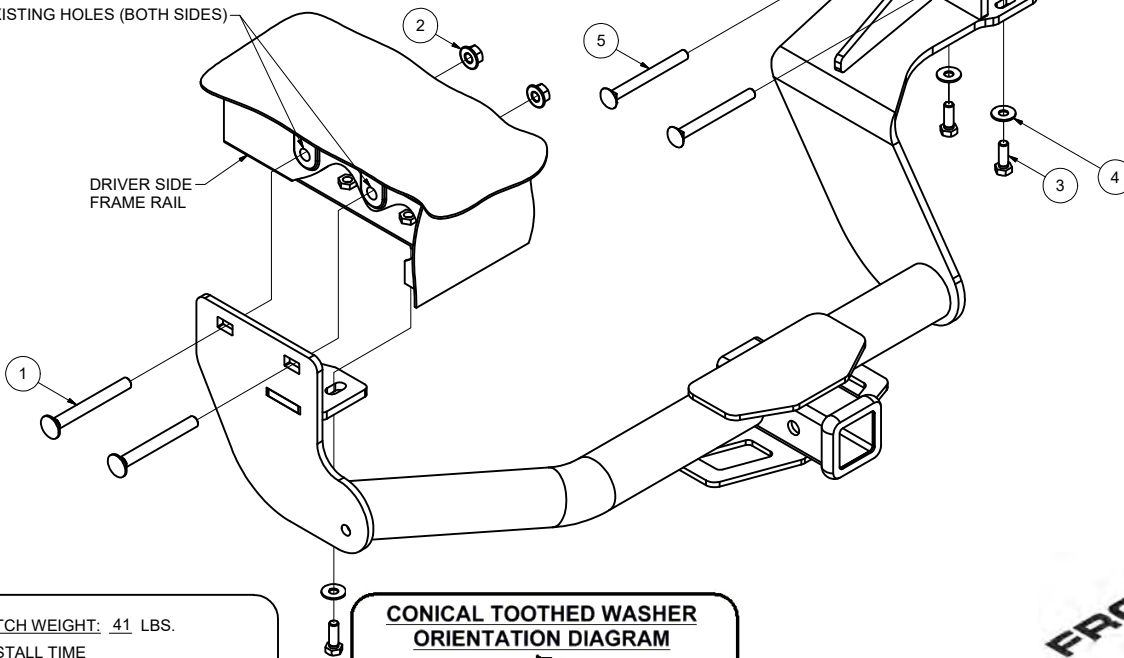


**TOOLS REQUIRED**

SOCKET WRENCH
TORQUE WRENCH
10" SOCKET EXTENSION
3/4" SOCKET
14mm SOCKET
17mm SOCKET
11/16" SOCKET
PHILLIPS SCREWDRIVER
SAFETY GLASSES



EXISTING HOLES (BOTH SIDES)



HITCH WEIGHT: 41 LBS.

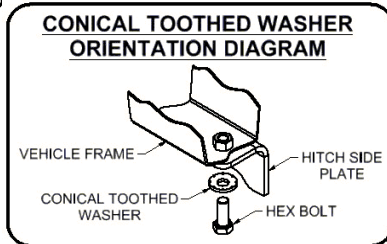
INSTALL TIME

PROFESSIONAL: 45 MINUTES

NOVICE (DIY): 90 MINUTES

INSTALL NOTES:

- LOWER SPARE TIRE
- TEMPORARILY REMOVE UNDERBODY PANEL
- TEMPORARILY LOWER EXHAUST
- REMOVE FRAME PLUGS



PERIODICALLY CHECK THIS RECEIVER HITCH TO ENSURE THAT ALL FASTENERS ARE TIGHT AND THAT ALL STRUCTURAL COMPONENTS ARE SOUND.



Scan for more information

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**INSTALLATION STEPS**

1. Temporarily lower spare tire.
2. Temporarily remove underbody panel on driver side of vehicle by removing (5) screws and (2) nuts. Retain screws for reinstallation of panel.
3. Temporarily lower exhaust by removing (3) rubber isolators. (1) isolator is located toward rear of muffler, (1) isolator is located toward front of muffler and (1) isolator is located on exhaust tube forward of muffler. (See Rubber Isolator Removal diagram)
4. Remove (1) rubber plug from bottom of passenger side frame rail and (1) rubber plug from bottom of driver side frame rail. Return plugs to vehicle owner.
5. Raise hitch into position and loosely install (2) M10 hex bolts and (2) 3/8" conical toothed washer into existing weldnuts on passenger side of vehicle and (1) M10 hex bolt and (1) 3/8" conical toothed washer into driver side of vehicle as shown. (See Weldnut Cleaning diagram)
6. Install (2) 1/2" carriage bolts through hitch and existing holes in driver side frame rail of vehicle as shown. Secure carriage bolts with 1/2" hex flange nuts.
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8. Torque 1/2" hardware to 110 lb-ft, 7/16" hardware to 60 lb-ft and M10 hardware to 48 lb-ft.
9. Raise exhaust back into position and reattach rubber isolators removed in Step 2.
10. Reinstall underbody panel in reverse order from Step 1.
11. Raise spare tire back into position.

PERIODICALLY CHECK THIS RECEIVER HITCH TO ENSURE THAT ALL FASTENERS ARE TIGHT AND THAT ALL STRUCTURAL COMPONENTS ARE SOUND.