

YEARS: 2011-PRESENT

MAKE: TOYOTA

MODEL: SIENNA

STYLE: VAN

WARNING: NEVER EXCEED YOUR VEHICLE MANUFACTURER'S RECOMMENDED TOWING CAPACITY
 For more information log onto www.curtmfg.com & for helpful towing tips log onto www.hitchinfo.com

WEIGHT CARRYING:
 TRAILER WEIGHT: 3,500 LBS.
 TONGUE WEIGHT: 525 LBS.

PRO INSTALL TIME: 60 MIN.
NOVICE INSTALL TIME: 120 MIN.

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

INSTALLATION REQUIRES:

		6" SOCKET EXTENSION
19mm 10mm SOCKET		

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 877.287.8634

LEVEL OF DIFFICULTY: MODERATE

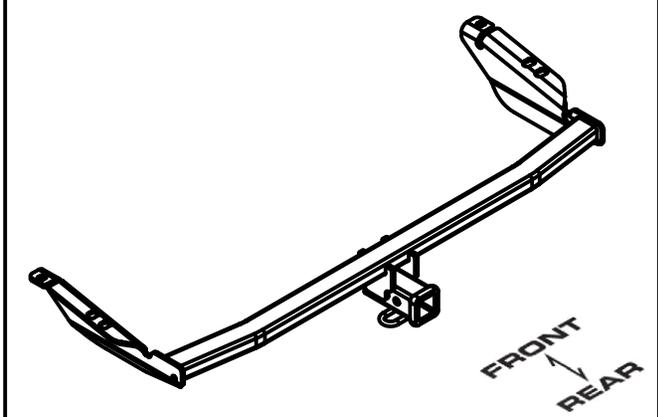
EASY	MODERATE	CHALLENGING
	NO DRILLING REQUIRED	
	LOWER EXHAUST	
	TEMPORARILY REMOVE UNDERBODY PANEL AND REAR FASCIA	
	TRIM UNDERBODY PANEL	

VEHICLE PHOTO:



REPRESENTATIVE PHOTO

HITCH ILLUSTRATION:



MAKE SURE YOUR HITCH MATCHES



SCAN FOR MORE INFO

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

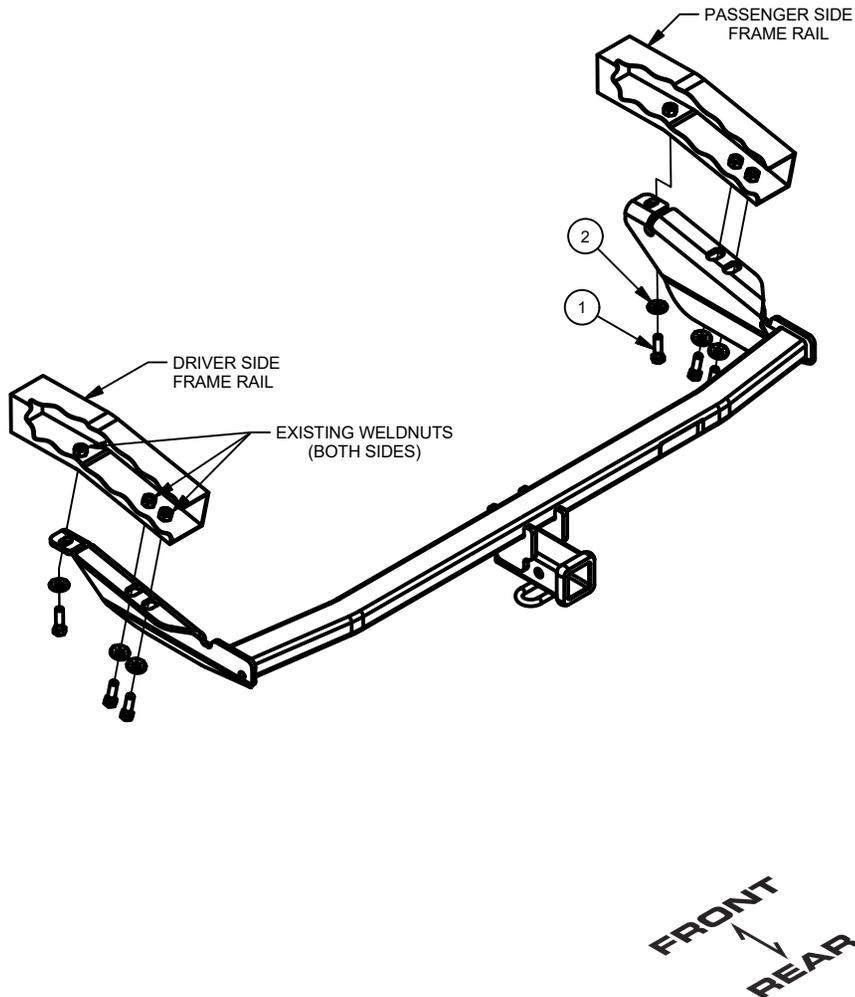
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This product complies with safety specifications and requirements for connecting devices and towing systems of the state of New York, V.E.S.C.Regulation V-5 and SAE J684.

INSTALLATION WALKTHROUGH:

Parts List			
ITEM	QTY	PART NUMBER	DESCRIPTION
1	6	10-10277	HHCS,M12x1.25,40,CL10.9,YZ
2	6	30-00149	WASHER,S-CON,1/2,YZ



1. Remove underbody panel, if present by removing (5) screws with a 10 mm socket, 4 plastic screws with a philips head screwdriver and 8 plastic push pins with a flat head screwdriver.



2. Lower exhaust by disconnecting (1) rubber isolator. (See Rubber Isolator Removal Diagram)



INSTALLATION WALKTHROUGH:

3. Remove (1) plugs and (2) pieces of tape covering existing weldnuts on each side of vehicle.
(See Weldnut Cleaning diagram)



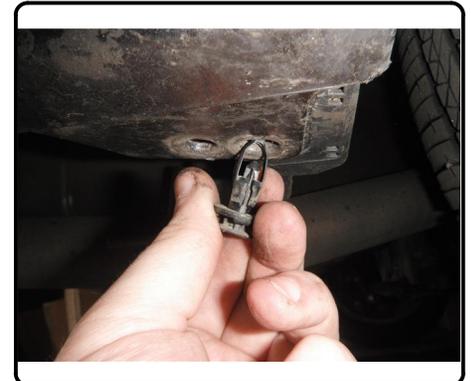
4. Open rear hatch of vehicle and remove (1) plastic rivet and (2) screws per each side of vehicle that are attaching the rear fascia.



5. Remove (1) screw per each side of vehicle inside of rear wheel well that are attaching the rear fascia to the vehicle side panels.



6. Remove (2) plastic clips on passenger side and (1) on driver side at bottom edge of fascia near wheel well.



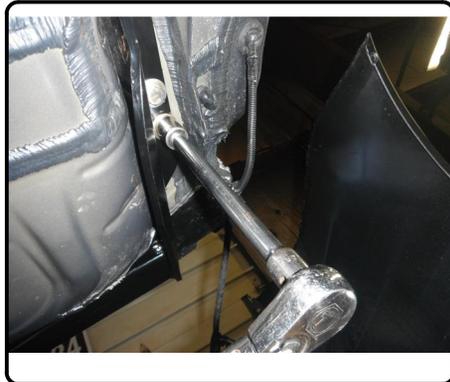
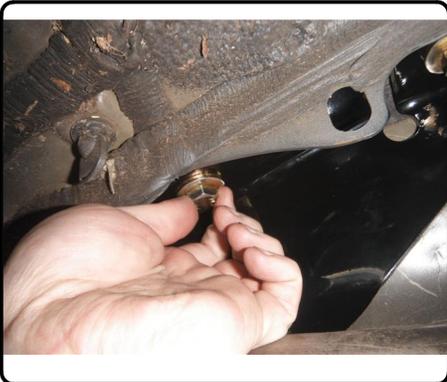
INSTALLATION WALKTHROUGH:

7. Pull rear wheel well panel (both sides) away from rear fascia by unclipping the tab. Disconnect backup sensor connectors as needed. Gently remove fascia from vehicle and set aside.



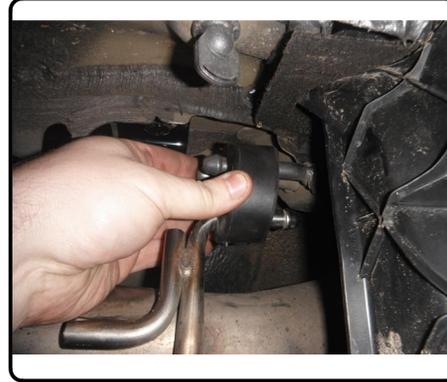
8. Raise hitch into position and install M12 bolts and 1/2" conical toothed washers as shown.

Torque M12 hardware to 86 lb-ft.

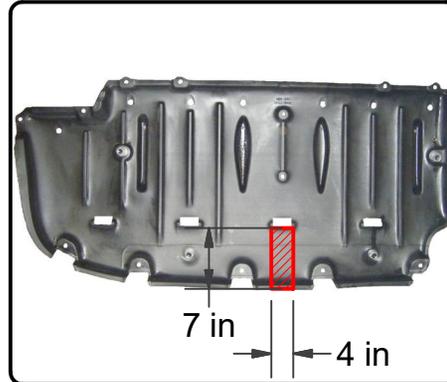


For more information log onto www.curtmfg.com

9. Raise exhaust back into position. Reinstall rear fascia in reverse order of removal from Steps 4-7.



10. Mark underbody panel for trimming as shown below.



INSTALLATION WALKTHROUGH:

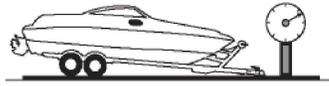
11. Trim underbody panel and reinstall in reverse order from Step 1.



TOWING SAFETY INFORMATION

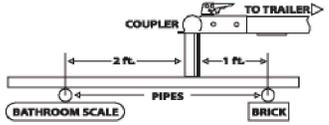
Gross Trailer Weight / GTW

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?

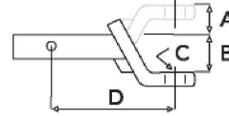
TONGUE WEIGHT lbs	1000	2000	3000	4000	5000	6000	7000	8000	10,000	12,000
Tongue weight should be about 10 to 15 percent of the gross trailer weight.										
CLASS 1										
CLASS 2										
CLASS 3										
CLASS 4										
CLASS 5										
TRAILER TYPE										
Camper	11'	12'	13'	14'	15'	16'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

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.

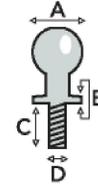
- A: Rise. B: Drop. C: Hole Size. D: Length.



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: 3,500 LBS. TRAILER WEIGHT & 525 LBS. TONGUE WEIGHT.

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



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

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2	6	30-00149	WASHER,S-CON,1/2,YZ

RUBBER ISOLATOR REMOVAL DIAGRAM

This technique can be used if an Exhaust Hanger Removal Pliers is not available.

Using a 5/8" open end wrench, slide the wrench up to the rubber isolator, cradling the hanger rod as shown. Next place the flat edge of a pry bar between the wrench and the hanger stop or hanger rod. Then simply rotate the pry bar toward the wrench to remove the rubber isolator.

Note: Using a spray lubricant or soapy water on the hanger rod and the rubber isolator helps removal.

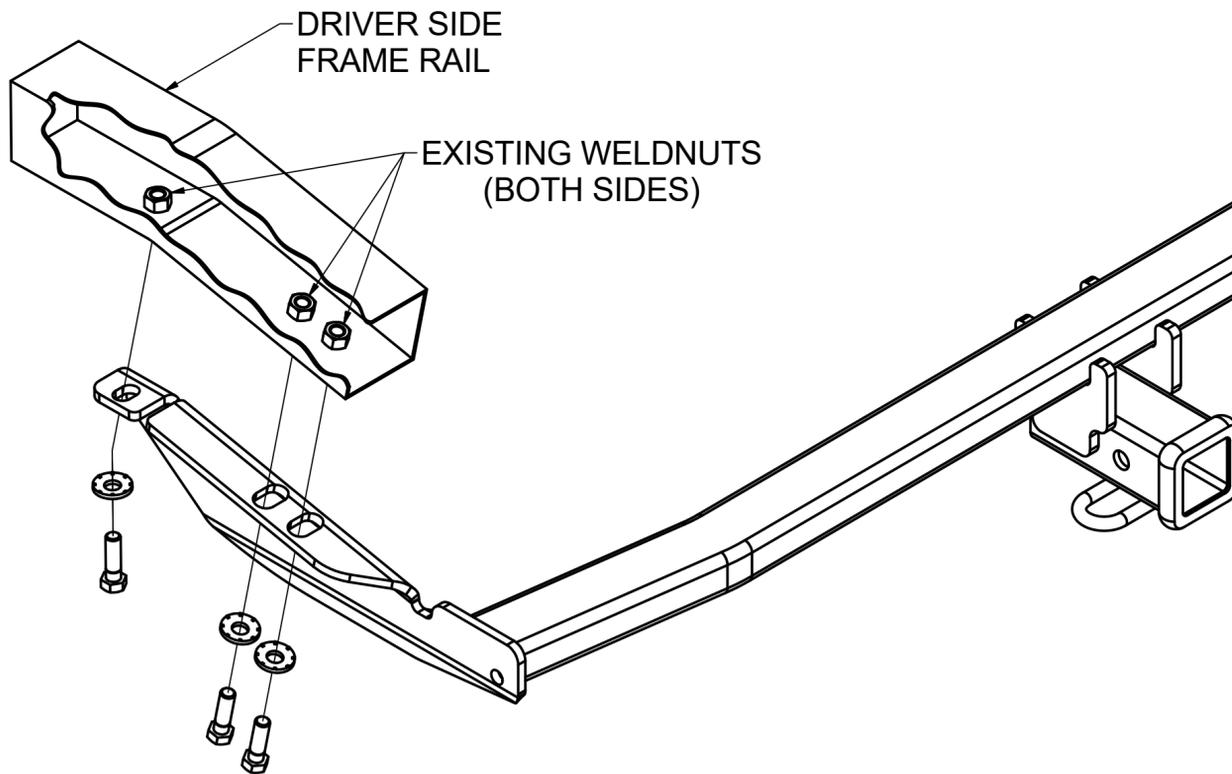
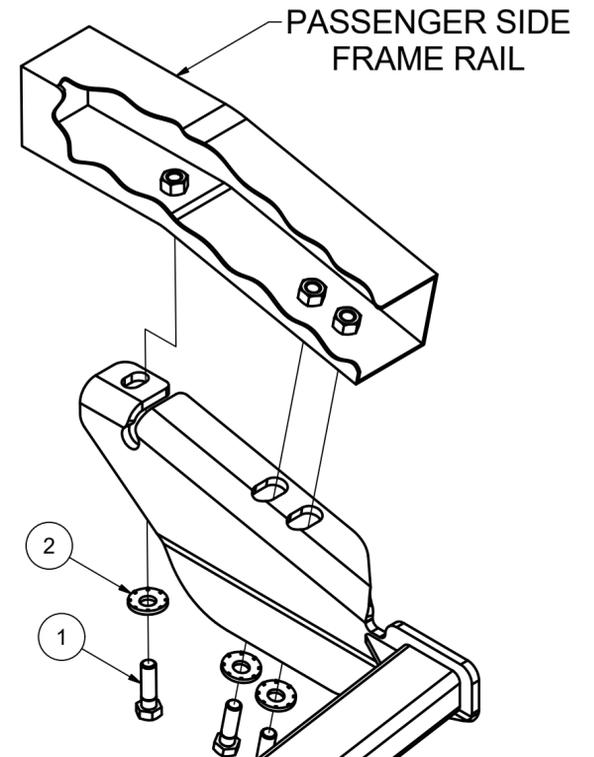
CONICAL TOOTHED WASHER ORIENTATION DIAGRAM

VEHICLE FRAME

HITCH SIDE PLATE

CONICAL TOOTHED WASHER

HEX BOLT



TOOLS REQUIRED
RATCHET
FLAT HEAD SCREWDRIVER
PHILIPS HEAD SCREWDRIVER
6" SOCKET EXTENSION
19mm, 10mm SOCKET
TORQUE WRENCH
ROTARY TOOL
TAPE MEASURE
MASKING TAPE / MARKER
SAFETY GLASSES

HITCH WEIGHT: 40 LBS.

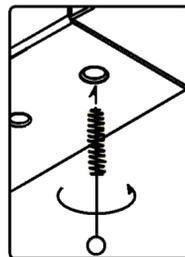
INSTALL TIME

PROFESSIONAL: 60 MINUTES

NOVICE (DIY): 120 MINUTES

INSTALL NOTES:

- NO DRILLING REQUIRED
- LOWER EXHAUST
- TEMPORARILY REMOVE UNDERBODY PANEL
- UNDERBODY PANEL TRIMMING REQUIRED
- TEMPORARILY REMOVE REAR FASCIA



WELDNUT CLEANING

To remove debris from weldnuts in frame, spray lubricant or compressed air into hole. For heavy debris, use a small wire brush. (Be careful not to damage threads).



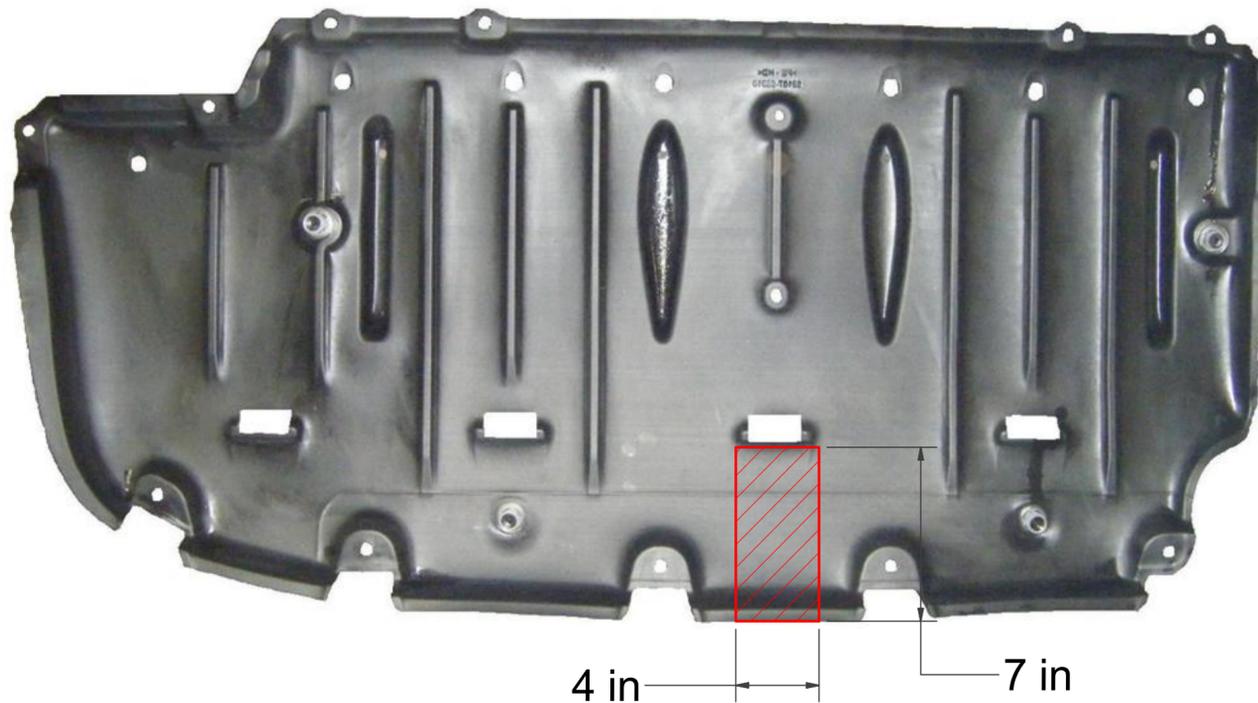
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**UNDERBODY PANEL TRIM DIAGRAM****INSTALLATION STEPS**

1. Remove underbody panel, if present by removing (5) screws with a 10 mm socket, 4 plastic screws with a philips head screwdriver and 8 plastic push pins with a flat head screwdriver.
2. Lower exhaust by disconnecting (1) rubber isolator. (See Rubber Isolator Removal Diagram)
3. Remove (1) plugs and (2) pieces of tape covering existing weldnuts on each side of vehicle. (See Weldnut Cleaning diagram)
4. Open rear hatch of vehicle and remove (1) plastic rivet and (2) screws per each side of vehicle that are attaching the rear fascia.
5. Remove (1) screw per each side of vehicle inside of rear wheel well that are attaching the rear fascia to the vehicle side panels.
6. Remove (2) plastic clips on passenger side and (1) on driver side at bottom edge of fascia near wheel well.
7. Pull rear wheel well panel (both sides) away from rear fascia by unclipping the tab. Disconnect backup sensor connectors as needed. Gently remove fascia from vehicle and set aside.
8. Raise hitch into position and install M12 bolts and 1/2" conical toothed washers as shown.
9. Torque M12 hardware to 86 lb-ft.
10. Raise exhaust back into position.
11. Reinstall rear fascia in reverse order of removal from Steps 4-7.
12. Mark underbody panel for trimming as shown above.
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