



12136 INSTALLATION INSTRUCTIONS



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

YEARS: 2014-PRESENT

MAKE: SUBARU

MODEL: OUTBACK

STYLE: WAGON

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

WEIGHT CARRYING:

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



10mm
19mm

SOCKET



8"

SOCKET
EXTENSION



RATCHET



TORQUE
WRENCH



POWER
DRILL



DRILL BIT
17/32"



ROTARY TOOL



AVIATION
SHEARS

INSTALLATION TIPS:

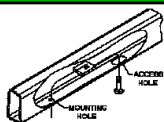
1. BEFORE YOU BEGIN INSTALLATION, READ ALL INSTRUCTIONS THOROUGHLY.
2. TO EASE INSTALLATION, 2 PEOPLE MAY BE REQUIRED.
3. USING PROPER TOOLS WILL GREATLY IMPROVE THE QUALITY OF THE INSTALL AND REDUCE THE TIME REQUIRED.
4. NEED HELP OR HAVE SOME QUESTIONS? CALL TECHNICAL SUPPORT AT 800.798.0813

LEVEL OF DIFFICULTY: MODERATE

EASY

MODERATE

CHALLENGING



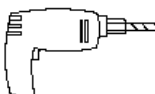
FISHWIRE HARDWIRE



HEAT SHIELD TRIM

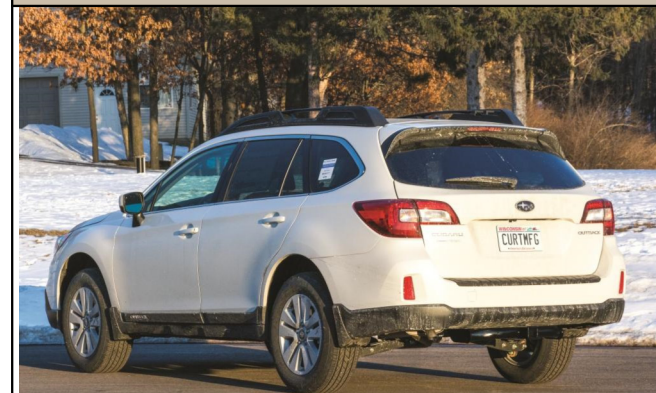


HOLE ENLARGEMENT



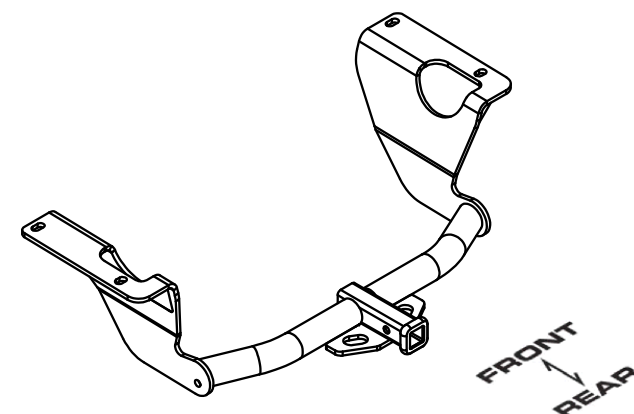
DRILLING REQUIRED

VEHICLE PHOTO:



REPRESENTATIVE PHOTO

HITCH ILLUSTRATION:



MAKE SURE YOUR HITCH MATCHES



SCAN FOR
MORE INFO

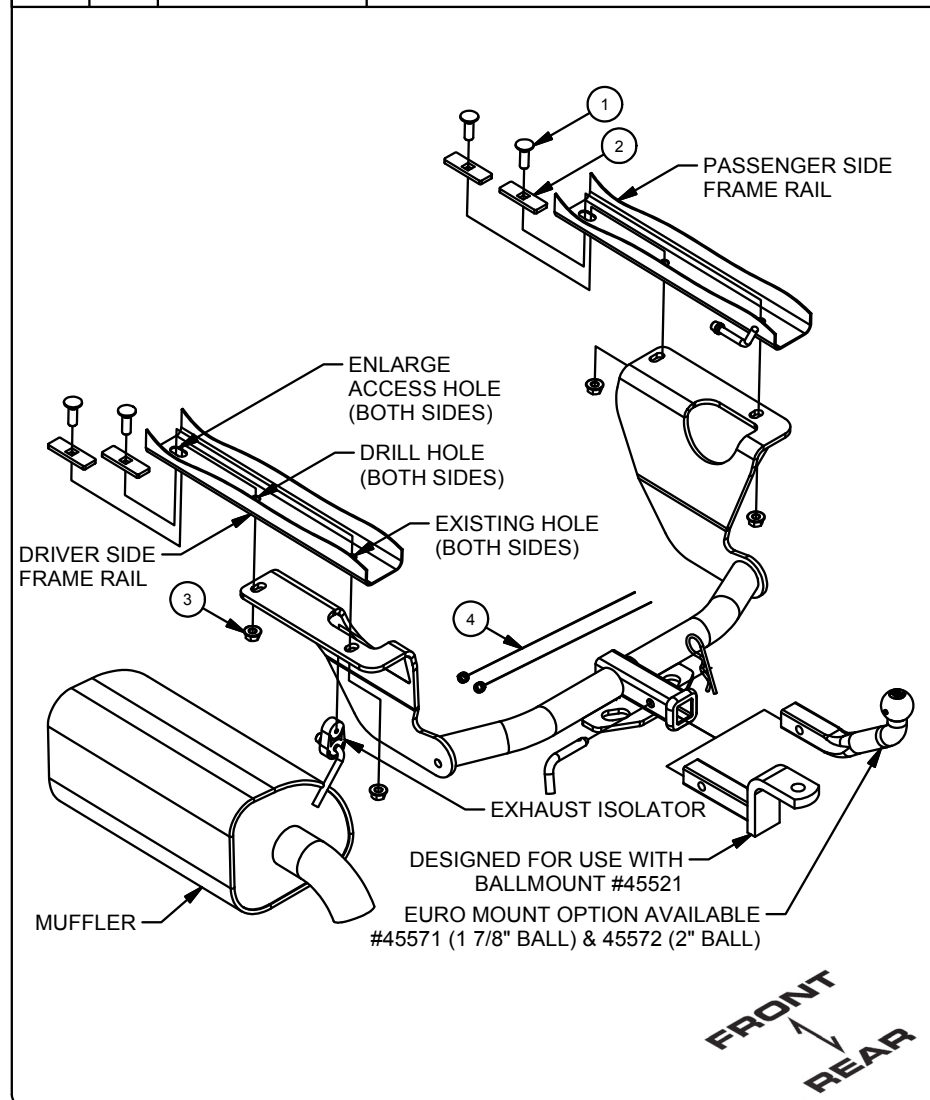
PERIODICALLY CHECK THIS RECEIVER HITCH TO ENSURE ALL FASTENERS ARE TIGHT AND ALL STRUCTURAL COMPONENTS ARE SOUND

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

INSTALLATION WALKTHROUGH:

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



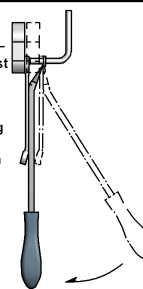
1. Lower the exhaust by removing the (3) rearmost rubber exhaust isolators from the frame mounted hangers.
Note: Support the exhaust during installation to prevent damage.
(See Rubber Isolator Removal Diagram.)

RUBBER ISOLATOR REMOVAL DIAGRAM

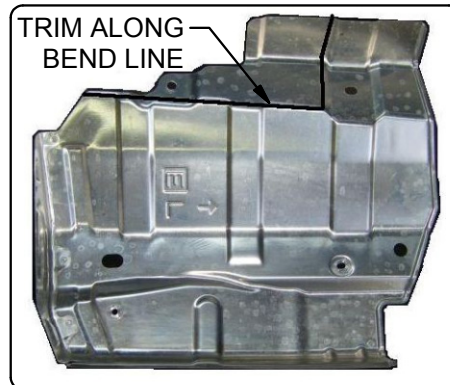
This technique can be used if and Exhaust Hanger Removal Pliers is not available.

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.

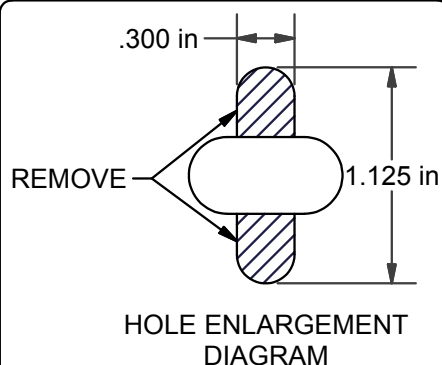


2. Remove the muffler heat shield and trim to clear the hitch mounting plate.
(See Heat Shield Trim Diagram.)

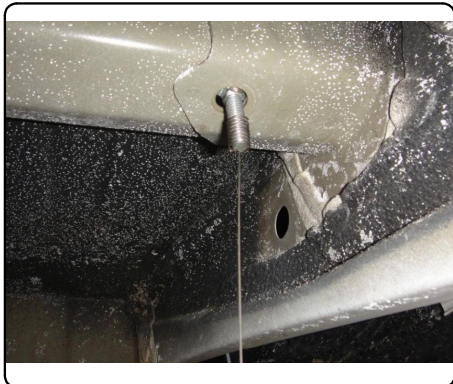
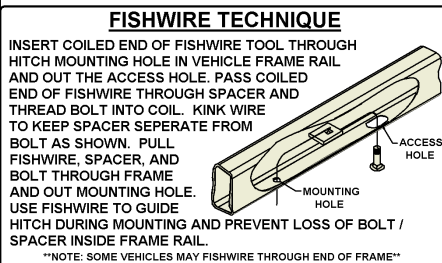


INSTALLATION WALKTHROUGH:

3. Remove the (2) rubber plugs in each frame rail. Enlarge the forward hole on each frame rail to allow the carriage bolt and spacer to be inserted into the frame rail. (See Hole Enlargement Diagram.)



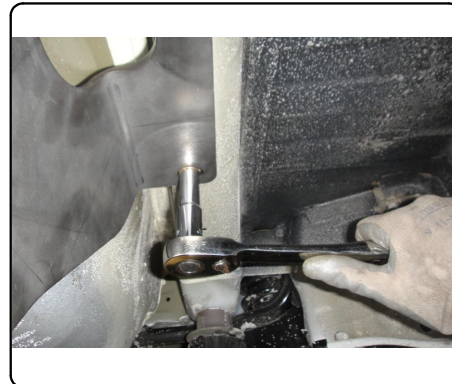
4. Fishwire a carriage bolt and spacer into the rearmost hole in each frame rail as shown. (See Fishwire Technique.)



5. Raise the hitch into position. Center the hitch on the vehicle, remove fishwire, and loosely secure the hitch to the vehicle with hex flange nuts as shown.



6. Using the hitch as your template mark and drill the forward holes in the frame rail. Fishwire a carriage bolt and spacer into each drilled hole and secure the hitch with a hex flange nut as shown.

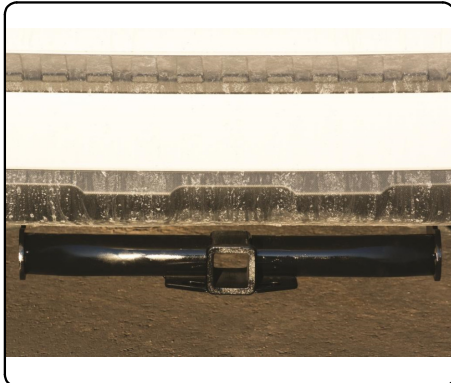


INSTALLATION WALKTHROUGH:

8. Torque all 1/2" hardware to 110 ft-lbs.



9. Reinstall the heat shield, raise the exhaust and reinstall the rubber isolators.

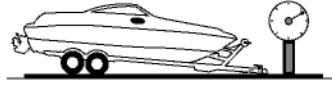


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TOWING SAFETY INFORMATION

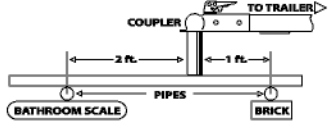
Gross Trailer Weight / GTW

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?

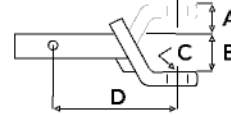
TONGUE WEIGHT	1000	2000	3000	4000	5000	6000	7000	8000	10,000	12,000
Tongue weight should be about 10 to 15 percent of the gross trailer weight.										
TRAILER TYPE										
CLASS 1										
CLASS 2										
CLASS 3										
CLASS 4										
CLASS 5										
Camper	11'	12'	13'	14'	15'	16'				
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.

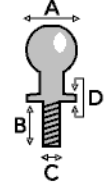
- A: Rise. B: Drop. C: Hole Size. D: Length.



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 Length. C: Shank Dia. 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:

7-WAY						
6-WAY						
5-WAY						
4-WAY						
GREEN	YELLOW	BROWN	WHITE	RED	BLUE	PURPLE
RIGHT TURN & BRAKE	LEFT TURN & BRAKE	TAILLIGHTS	GROUND	AUXILIARY POWER	ELECTRIC BRAKES	BACK-UP LIGHTS

CURT DISCLAIMER: WIRING COLOR SHOWN WORK IN CONJUNCTION WITH CURT MANUFACTURING PRODUCTS.

12136

SUBARU OUTBACK

3/11/2015

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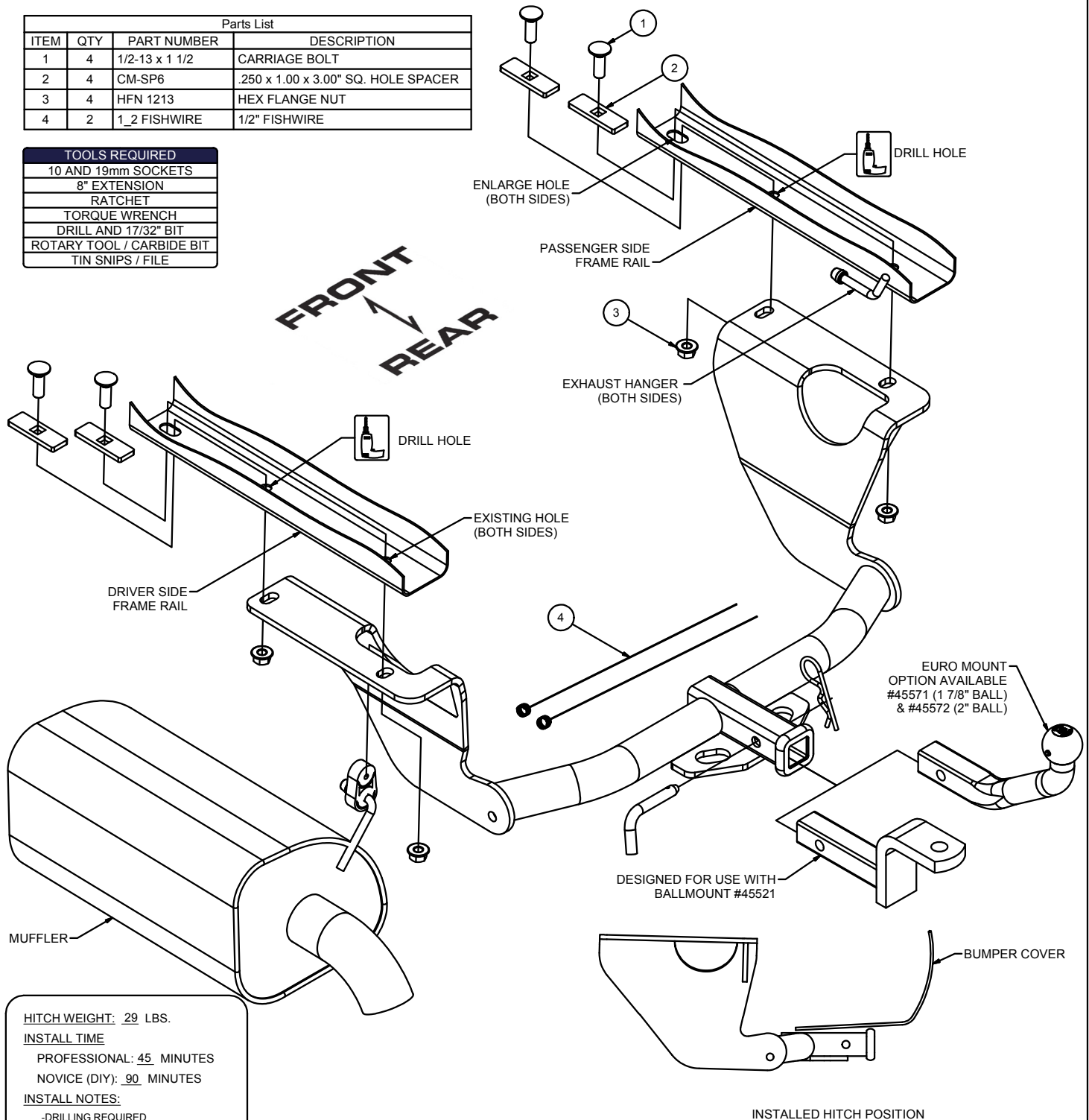
GROSS LOAD CAPACITY WHEN USED AS A WEIGHT CARRYING HITCH: 3,500 LBS. TRAILER WEIGHT & 525 LBS. TONGUE WEIGHT.

*****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	
1	4	1/2-13 x 1 1/2	CARRIAGE BOLT	
2	4	CM-SP6	.250 x 1.00 x 3.00" SQ. HOLE SPACER	
3	4	HFN 1213	HEX FLANGE NUT	
4	2	1_2 FISHWIRE	1/2" FISHWIRE	

TOOLS REQUIRED	
10 AND 19mm SOCKETS	
8" EXTENSION	
RATCHET	
TORQUE WRENCH	
DRILL AND 17/32" BIT	
ROTARY TOOL / CARBIDE BIT	
TIN SNIPS / FILE	



HITCH WEIGHT: 29 LBS.

INSTALL TIME

PROFESSIONAL: 45 MINUTES

NOVICE (DIY): 90 MINUTES

INSTALL NOTES:

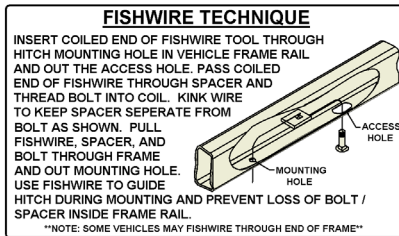
- DRILLING REQUIRED
- FISHWIRE HARDWARE
- TRIM HEAT SHIELD
- HOLE ENLARGEMENT

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

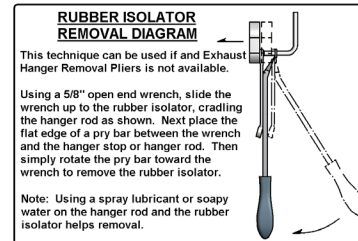
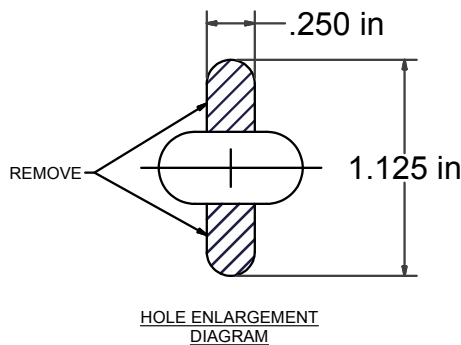


Scan
for more
information

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HEAT SHIELD TRIM DIAGRAM



INSTALLATION STEPS

1. Lower the exhaust by removing the (3) rearmost rubber exhaust isolators from the frame mounted hangers. Note: Support the exhaust during installation to prevent damage. (See Rubber Isolator Removal Diagram.)
2. Remove the muffler heat shield and trim to clear the hitch mounting plate. (See Heat Shield Trim Diagram.)
3. Remove the (2) rubber plugs in each frame rail. Enlarge the forward hole on each frame rail to allow the carriage bolt and spacer to be inserted into the frame rail. (See Hole Enlargement Diagram.)
4. Fishwire a carriage bolt and spacer into the rearmost hole in each frame rail as shown. (See Fishwire Technique.)
5. Raise the hitch into position. Center the hitch on the vehicle and loosely secure the hitch to the vehicle with hex flange nuts as shown.
6. Using the hitch as your template mark and drill the forwardmost holes in the frame rail.
7. Fishwire a carriage bolt and spacer into each drilled hole and secure the hitch with a hex flange nut as shown.
8. Torque all 1/2" hardware to 110 ft-lbs.
9. Reinstall the heat shield, raise the exhaust and reinstall the rubber isolators.

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