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:	350 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

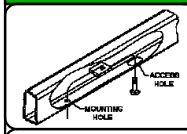
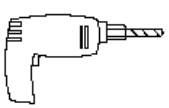
AVIATION SHEARS

INSTALLATION TIPS:

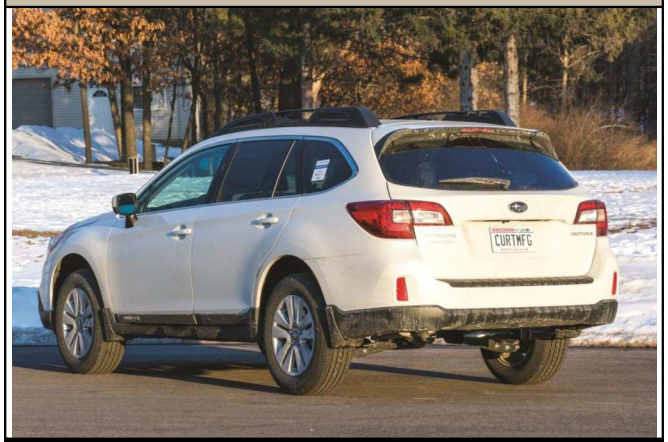
1. *BEFORE YOU BEGIN INSTALLATION, READ ALL INSTRUCTIONS THOROUGHLY.*
2. *TO EASE INSTALLATION, 2 PEOPLE MAY BE REQUIRED.*
3. *USING PROPER TOOLS WILL GREATLY IMPROVE THE QUALITY OF THE INSTALL AND REDUCE THE TIME REQUIRED.*
4. *NEED HELP OR HAVE SOME QUESTIONS? CALL TECHNICAL SUPPORT AT 800.798.0813*

LEVEL OF DIFFICULTY: MODERATE

EASY | ***MODERATE*** | ***CHALLENGING***

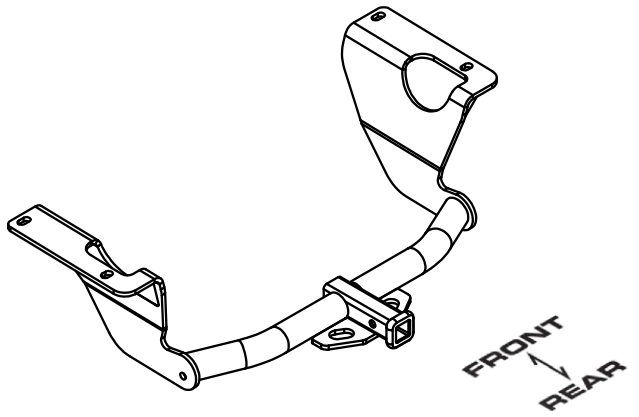
	FISHWIRE HARDWIRE
	HEAT SHIELD TRIM
	HOLE ENLARGEMENT
	DRILLING REQUIRED

VEHICLE PHOTO:



REPRESENTATIVE PHOTO

HITCH ILLUSTRATION:



MAKE SURE YOUR HITCH MATCHES

SCAN FOR MORE INFO

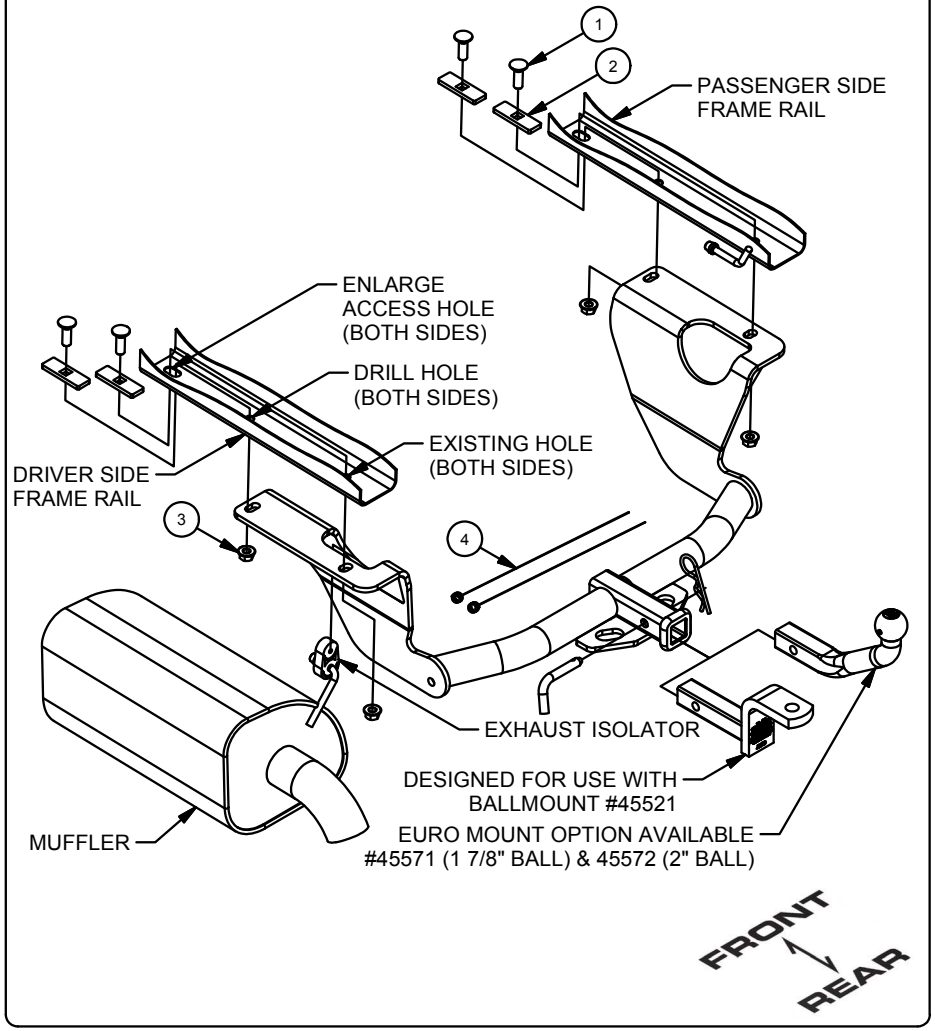
PERIODICALLY CHECK THIS RECEIVER HITCH TO ENSURE ALL FASTENERS ARE TIGHT AND ALL STRUCTURAL COMPONENTS ARE SOUND

For more information log onto www.curtmfg.com, & for helpful towing tips log onto www.hitchinfo.com

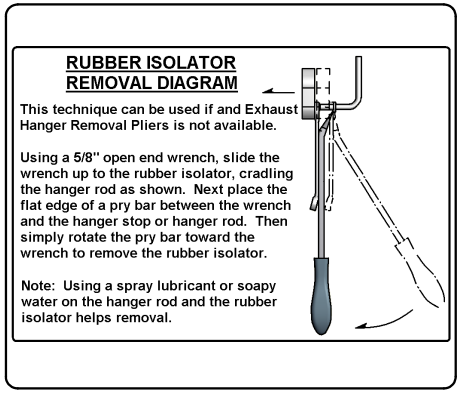
5/25/2016

INSTALLATION WALKTHROUGH:

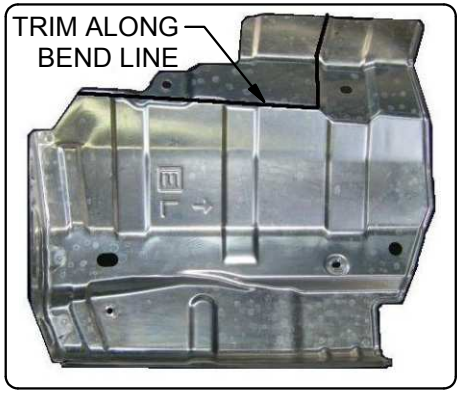
Parts List			
ITEM	QTY	PART NUMBER	DESCRIPTION
1	4	1/2-13 x 1 1/2	CARRIAGE BOLT
2	4	CM-SP6	.250 x 1.00 x 3.00" SQUARE HOLE SPACER
3	4	HFN 1213	HEX FLANGE NUT
4	2	1_2 FISHWIRE	1/2" FISHWIRE



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.)



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



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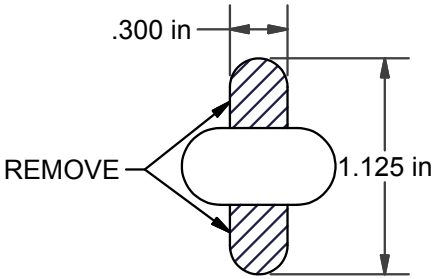
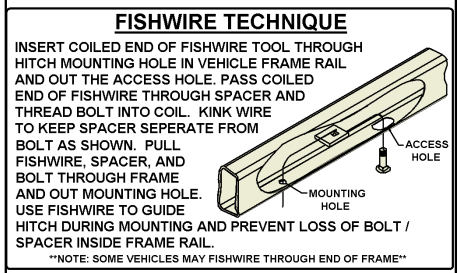
INSTALLATION WALKTHROUGH:

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.)



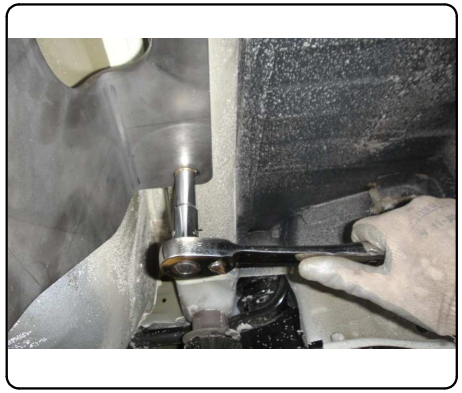
HOLE ENLARGEMENT DIAGRAM

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.



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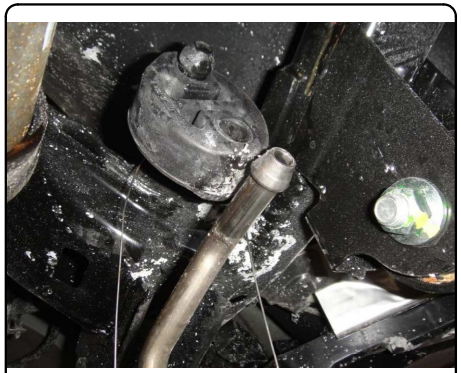
INSTALLATION WALKTHROUGH:

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

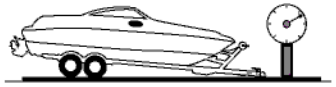
9. Reinstall the heat shield, raise the exhaust and reinstall the rubber isolators.



TOWING SAFETY INFORMATION

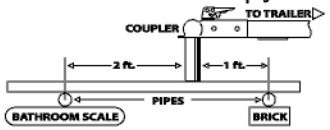
Gross Trailer Weight / GTW

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.

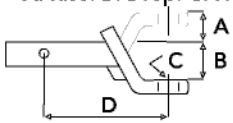
How Much Can You Safely Tow?

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									
TRAILER TYPE	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.

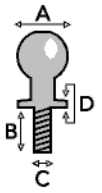
- **A:** Rise. **B:** Drop. **C:** Hole Size. **D:** Length.



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

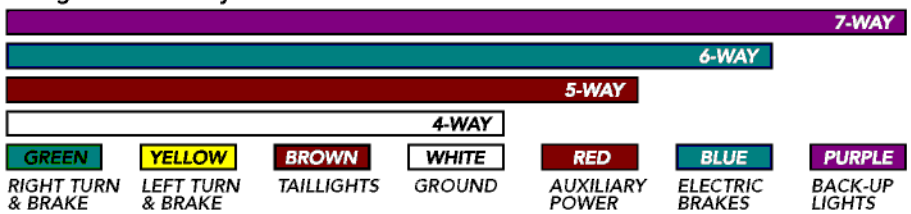
The component that is placed over the trailer ball to connect the vehicle to the trailer. Be sure that the coupler size matches the size of the hitch ball and that the coupler handle is securely fastened. To determine what size hitch ball you need for your application you will need to know the size of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



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

12136 SUBARU OUTBACK

GROSS LOAD CAPACITY WHEN USED AS A WEIGHT CARRYING HITCH: 3,500 LBS. TRAILER WEIGHT & 350 LBS. TONGUE WEIGHT.

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

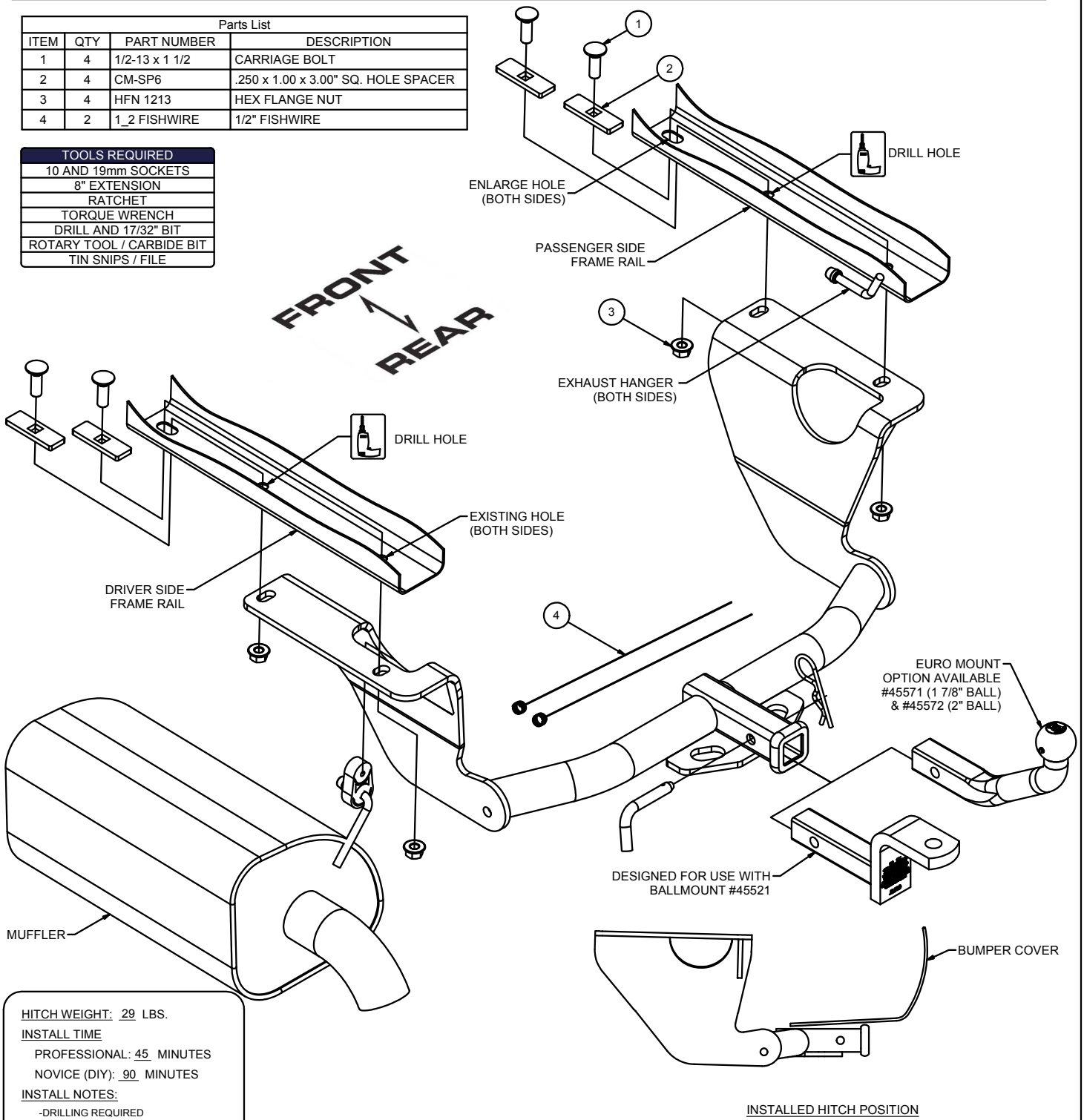
WARNING: ALL NON-TRAILER LOADS APPLIED TO THIS PRODUCT MUST BE SUPPORTED BY 18050 STABILIZING STRAPS.

**** 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:

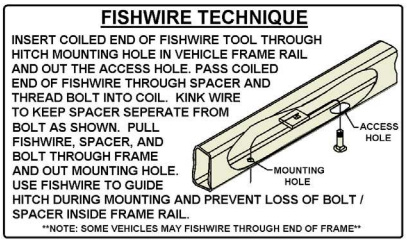
-DRILLING REQUIRED
-FISHWIRE HARDWARE
-TRIM HEAT SHEILD
-HOLE ENLARGEMENT

INSTALLED HITCH POSITION

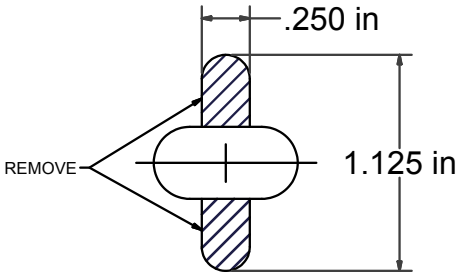
PERIODICALLY CHECK THIS RECEIVER HITCH TO ENSURE THAT ALL FASTENERS ARE TIGHT AND THAT ALL STRUCTURAL COMPONENTS ARE SOUND.

Scan for more information

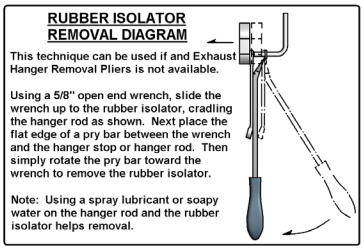
HAVING INSTALLATION QUESTIONS? CALL TECHNICAL SUPPORT AT 1-800-798-0813



HEAT SHIELD TRIM DIAGRAM



HOLE ENLARGEMENT 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.