12100 INSTALLATION INSTRUCTIONS

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

YEARS: 2014-CURRENT	MAKE: SUBARU	MODEL: FORESTER	STYLE: SUV

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

WEIGHT CARRYING:

TRAILER WEIGHT:	3500	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:	**30 MIN.**
NOVICE INSTALL TIME:	**60 MIN.**

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

INSTALLATION REQUIRES:

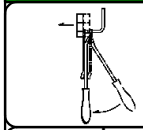
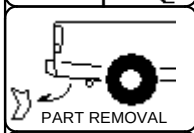
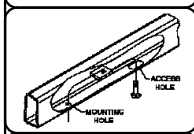
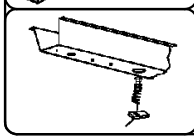
 DIE GRINDER	 RATCHET	 10mm 3/4" SOCKET
 6" SOCKET EXTENSION	 SCREW DRIVER	 TORQUE WRENCH
 JACK STANDS	 SAFETY GLASSES	

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***

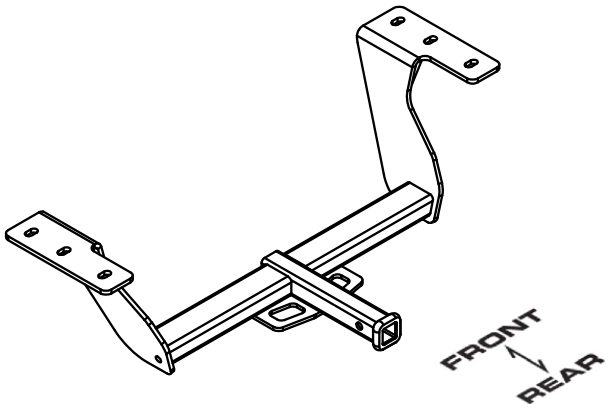
	RUBBER ISOLATER REMOVAL
	HOLE ENLARGEMENT
 PART REMOVAL	PART REMOVAL
	FISHWIRE
	REVERSE FISHWIRE

VEHICLE PHOTO:



REPRESENTATIVE PHOTO

HITCH ILLUSTRATION:



MAKE SURE YOUR HITCH MATCHES

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

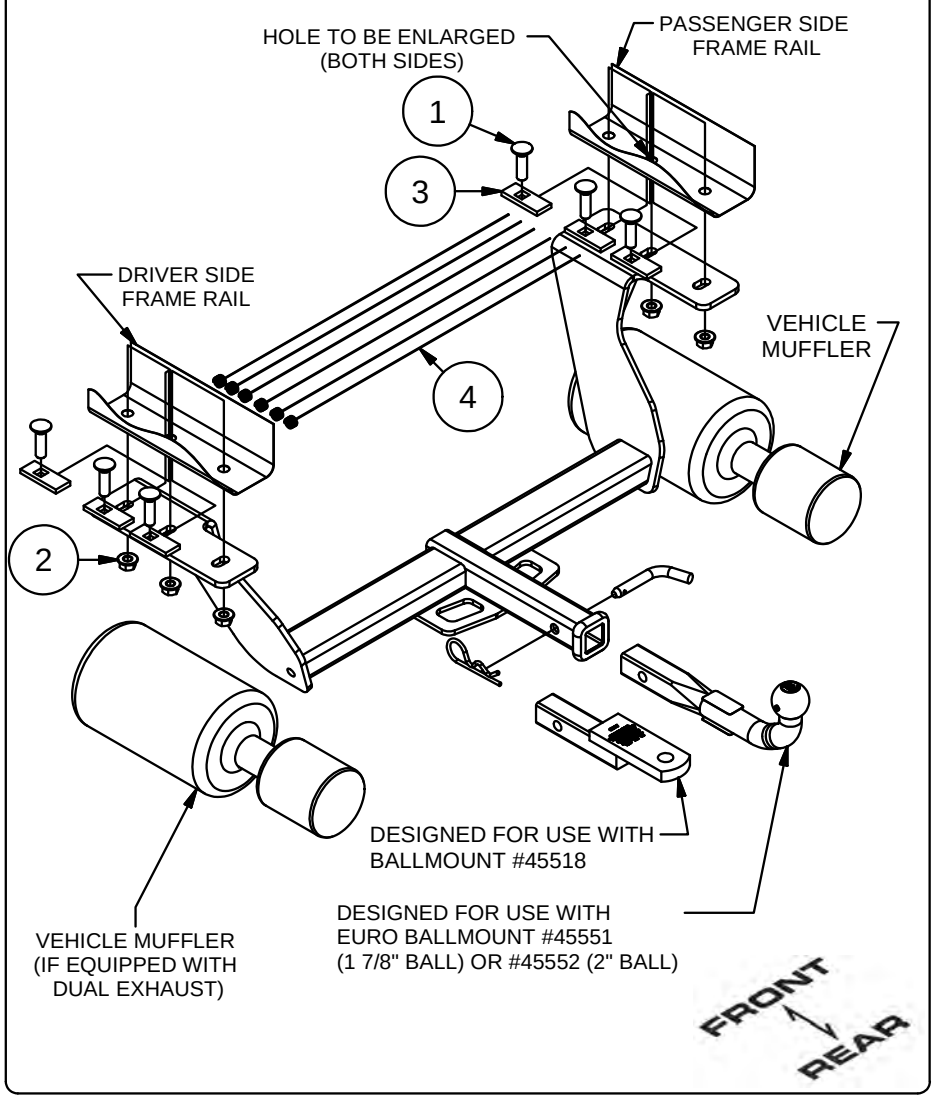
CURT Manufacturing LLC. warrants this product to be free of defects in material and/or workmanship at the time of retail purchase by the original purchaser. If the product is found to be defective, Curt Manufacturing LLC. may repair or replace the product at their option, when the product is returned, 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

5/23/2016

INSTALLATION WALKTHROUGH:

Parts List			
ITEM	QTY	PART NUMBER	DESCRIPTION
1	6	1/2-13 x 1 3/4, GR8	CARRIAGE BOLT
2	6	HFN 1213, GR8	HEX FLANGE NUT
3	6	CM-SP10	.250 x 1.00 x 2.50" SQUARE HOLE SPACER
4	6	1_2 FISHWIRE	1/2" FISHWIRE



1. Remove (2) exhaust hangers from the passenger side muffler and (1) exhaust hanger from the center front of vehicle for single exhaust vehicles, dual exhaust will remove (2) exhaust hangers from the driver side muffler as well. Support lowered exhaust with jack stand.





2. Remove (4) heat shield attachments with phillips head screwdiver or 10mm socket (both sides if equipped with dual exhaust). Remove three hole plugs from each side of frame to expose mounting holes. Return all removed items to customer.



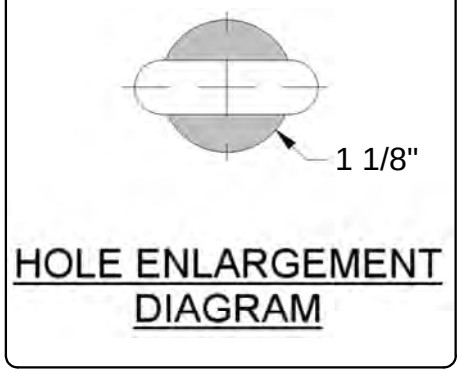


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INSTALLATION WALKTHROUGH:

3. Enlarge the center hole on each side of the frame to about 1 1/8" to allow the mounting hardware to pass though. (Both sides)





HOLE ENLARGEMENT DIAGRAM

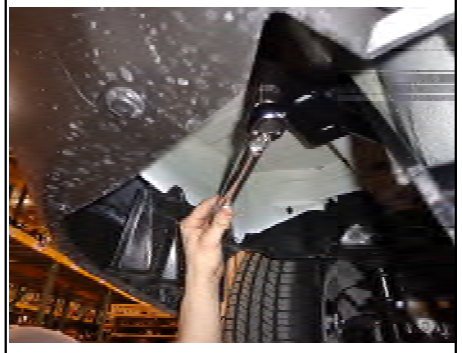
4. Fishwire 1/2" carriage bolt and spacer through the front and rear frame holes in both frame sides then reverse fishwire the center hole both sides.





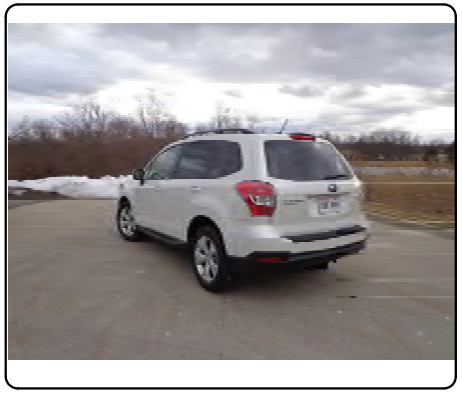
5. Raise hitch into place and secure hitch to frame, using the 1/2" hardware provided. Torque all hardware to 110ft-lb.





6. Raise exhaust back into place and reattach exhaust hangers. Install complete.



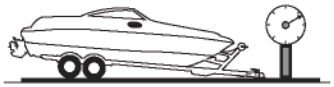


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TOWING SAFETY INFORMATION

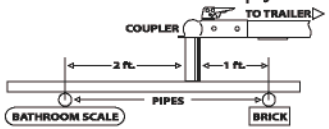
Gross Trailer Weight / GTW

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.

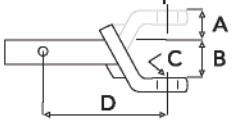
How Much Can You Safely Tow?

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.

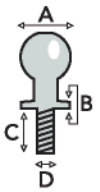
- A: Rise. B: Drop. C: Hole Size. D: Length.



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 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.

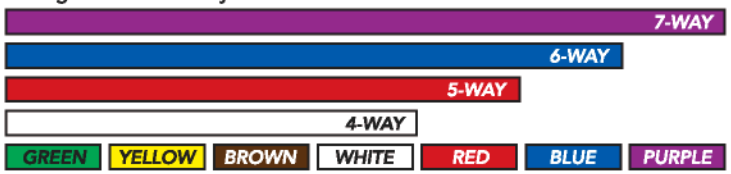
Safety Chains

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:



12100 SUBARU FORESTER

5/23/2016

GROSS LOAD CAPACITY WHEN USED AS A WEIGHT CARRYING HITCH: 3500 LBS. TRAILER WEIGHT & 350 LBS. TONGUE WEIGHT.

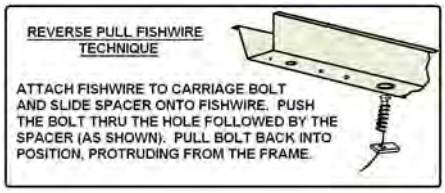
DO NOT EXCEED VEHICLE MANUFACTURER'S RECOMMENDED TOWING CAPACITY.

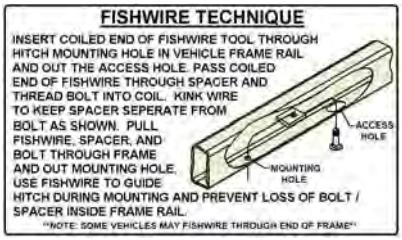
WARNING: ALL NON-TRAILER LOADS APPLIED TO THIS PRODUCT MUST BE SUPPORTED BY 18050 STABILIZING STRAPS.

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

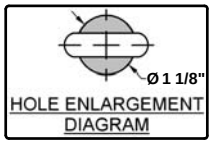
HAVING INSTALLATION QUESTIONS? CALL TECHNICAL SUPPORT AT 1-800-798-0813

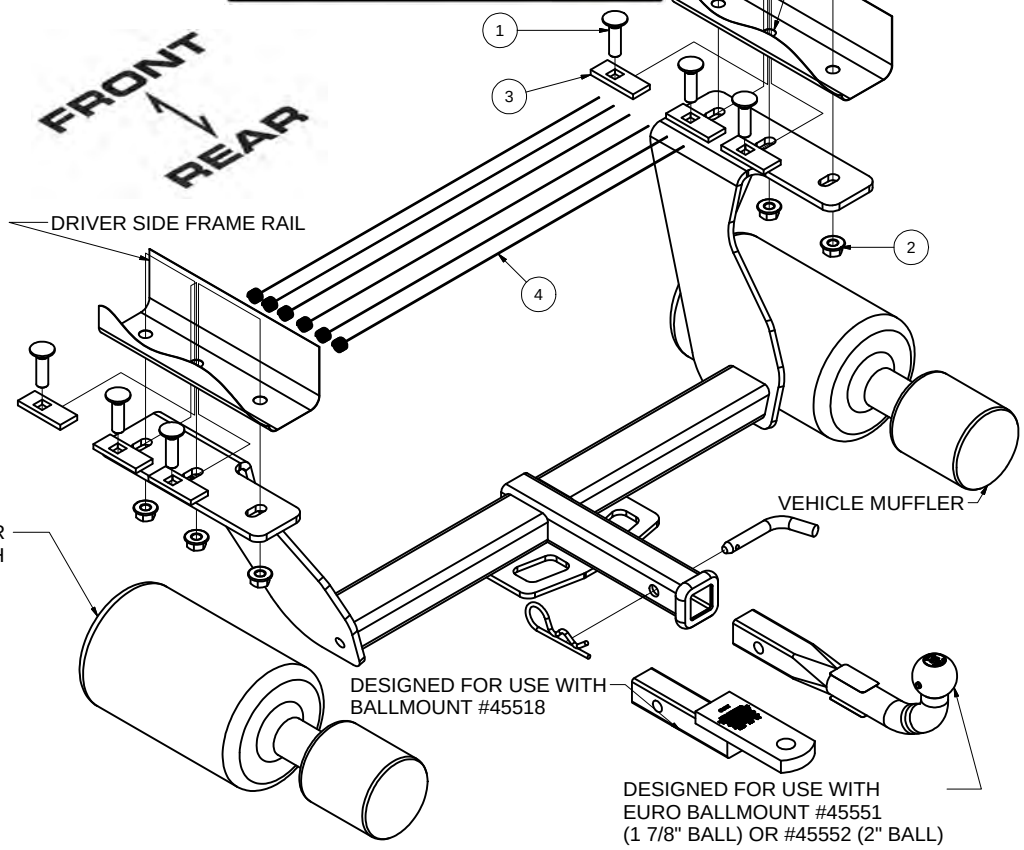
Parts List			
ITEM	QTY	PART NUMBER	DESCRIPTION
1	6	1/2-13 x 1 3/4, GR8	CARRIAGE BOLT
2	6	HFN 1213, GR8	HEX FLANGE NUT
3	6	CM-SP10	.250 x 1.00 x 2.50" SQUARE HOLE SPACER
4	6	1_2 FISHWIRE	1/2" FISHWIRE





TOOLS REQUIRED
RATCHET
10mm, 3/4" SOCKET
6" SOCKET EXTENSION
SCREW DRIVER
GRINDER/ DRILL
TORQUE WRENCH
JACK STAND





HITCH WEIGHT: 35 LBS.

INSTALL TIME

PROFESSIONAL: 30 MINUTES

NOVICE (DIY): 60 MINUTES

INSTALL NOTES:
-PART REMOVAL
-HOLE ENLARGEMENT
-FISHWIRE
-REVERSE FISHWIRE

INSTALLATION STEPS

1. Remove (2) exhaust hangers from the passenger side muffler and (1) exhaust hanger from the center front of vehicle for single exhaust vehicles, dual exhaust will remove (2) exhaust hangers from the driver side muffler as well. Support lowered exhaust with jack stand.

2. Remove (4) heat shield attachments with phillips head screwdiver or 10mm socket (both sides if equipped with dual exhaust). Remove three hole plugs from each side of frame to expose mounting holes. Return all removed items to customer.

3. Enlarge the center hole on each side of the frame to about 1 1/8" to allow the mounting hardware to pass though. (Both sides)

4. Fishwire 1/2" carriage bolt and spacer through the front and rear frame holes in both frame sides, then reverse fishwire the center hole both sides.

5. Raise hitch into place and secure hitch to frame using the 1/2" hardware provided. Torque all hardware to 110ft-lb.

6. Raise exhaust back into place and reattach exhaust hangers.

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