

YEARS: 2016-PRESENT

13233 INSTALLATION INSTRUCTIONS

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

STYLE: SUV

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MAKE: VOLVO

WEIGHT CARRYING:

TRAILER WEIGHT: 6000 LBS. TONGUE WEIGHT: 900 LBS.

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:



INSTALLATION TIPS:

1. BEFORE YOU BEGIN INSTALLATION, READ ALL INSTRUCTIONS THOROUGHLY.

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

MODEL: XC90

- 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.

LEVEL OF DIFFICULTY: MODERATE

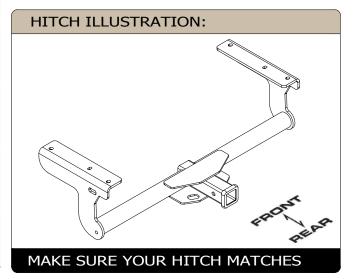
REMOVE AND TRIM HEAT SHIELD

LOWER EXHAUST TO EASE INSTALLATION

DRILLING REQUIRED







ITEM 63		ts List	_
1 4		DESCRIPTION HEY ELANCE NUT	-
	,	HEX FLANGE NUT	_
2 4		CARRIAGE BOLT	
3 4		2.00 X 0.88 X .125 SPACER	
4 4	1_2 FISHWIRE	1/2" FISHWIRE	
		PASSENGER FRAME RAIL DRIVER SIDE FRAME RAIL	SIDE ALL REPORTS

1. Remove (4) fasteners attaching the bottom of the fascia to the vehicle using a T25 socket.





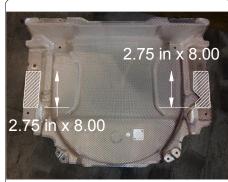
2. Remove (2) M10 bolts for the exhaust brackets. Lower the exhaust.



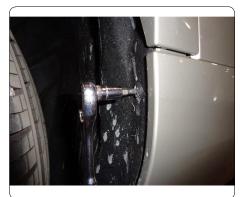


3. Remove (2) M6 bolts holding the heat shield using a 10mm socket. Remove (4) speed clips from studs holding the heat shield. Remove the heat shield, and trim as pictured in the diagram using shears.





4. Remove (4) fasteners located on each side in the wheel well using a T25 socket.





5. Gently remove bumper fascia, and detach sensors as needed. Mark sensors upon removal to ensure proper reattachment.





6. Align the hitch using the exhaust bracket attachments (M10 bolts). Using the hitch as a template, mark the hole locations on the vehicle frame.





7. Enlarge rearmost hole to approximately 1" on each side of the frame using a die grinder.





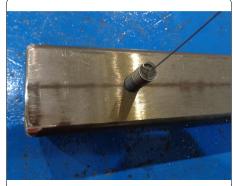
8. Use 9/16" drill bit to drill the forwardmost holes on each side of the frame at the previously marked locations using a drill.



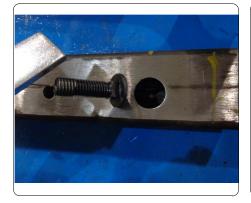


9. Fishwire (1) 1/2" carriage bolt and spacer from a hole approximately 6" forward of the forwardmost hole to the rearmost hole on each frame rail.





10. Reverse fishwire (1) 1/2" carriage bolt and spacer into the rearmost hole on each frame rail.





11. Raise hitch into position and pull fishwires so the bolts are in their final position. Remove the fishwires carefully and loosely install the supplied 1/2" hex flange nuts.





12. Raise exhaust into place. Loosely install the factory M10 bolts.



13. Torque all 1/2" bolts to 110 ft-lbs. Torque all M8 bolts to 48 ft-lbs.





14. Reassemble by repeating steps 1-5 in reverse order.





TOWING SAFETY INFORMATION

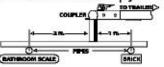
Gross Trailer Weight / GTW

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

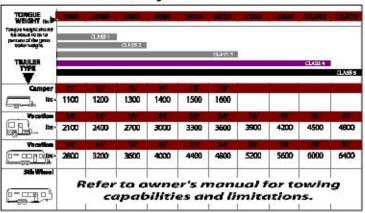
Used to balance the weight of the cargo between the front and rear wheels throughout the trailer, allowing for better steering, braking, and level riding.



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.

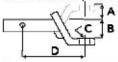
How Much Can You Safely Tow?



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.

13233

2016 VOLVO XC90

GROSS LOAD CAPACITY WHEN USED AS A WEIGHT CARRYING HITCH: 6000 LBS. TRAILER WEIGHT & 900 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 **

WARNING: *** DO NOT EXCEED VEHICLE MANUFACTURER'S RECOMMENDED TOWING CAPACITY



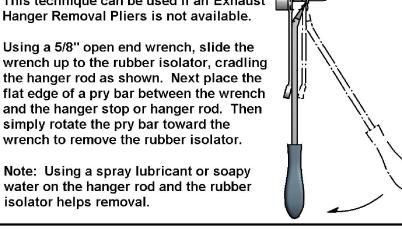
Parts List				
ITEM	QTY	PART NUMBER	DESCRIPTION	
1	4	HFN 1213, GR8	HEX FLANGE NUT	
2	4	1/2-13 x 1 1/2	CARRIAGE BOLT	
3	4	CM-SP108	2.00 X 0.88 X .125 SPACER	
4	4	1_2 FISHWIRE	1/2" FISHWIRE	

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.

water on the hanger rod and the rubber isolator helps removal.



REVERSE PULL FISHWIRE TECHNIQUE

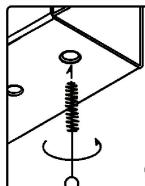
ATTACH FISHWIRE TO CARRIAGE BOLT AND SLIDE SPACER ONTO FISHWIRE. PUSH THE BOLT THRU THE HOLE FOLLOWED BY THE SPACER (AS SHOWN). PULL BOLT BACK INTO POSITION, PROTRUDING FROM THE FRAME.

FISHWIRE TECHNIQUE

INSERT COILED END OF FISHWIRE TOOL THROUGH HITCH MOUNTING HOLE IN VEHICLE FRAME RAIL AND OUT THE ACCESS HOLE. PASS COILED END OF FISHWIRE THROUGH SPACER AND THREAD BOLT INTO COIL. KINK WIRE TO KEEP SPACER SEPERATE FROM **BOLT AS SHOWN. PULL**

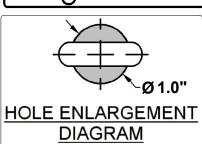
FISHWIRE, SPACER, AND **BOLT THROUGH FRAME** AND OUT MOUNTING HOLE. USE FISHWIRE TO GUIDE SPACER INSIDE FRAME RAIL.

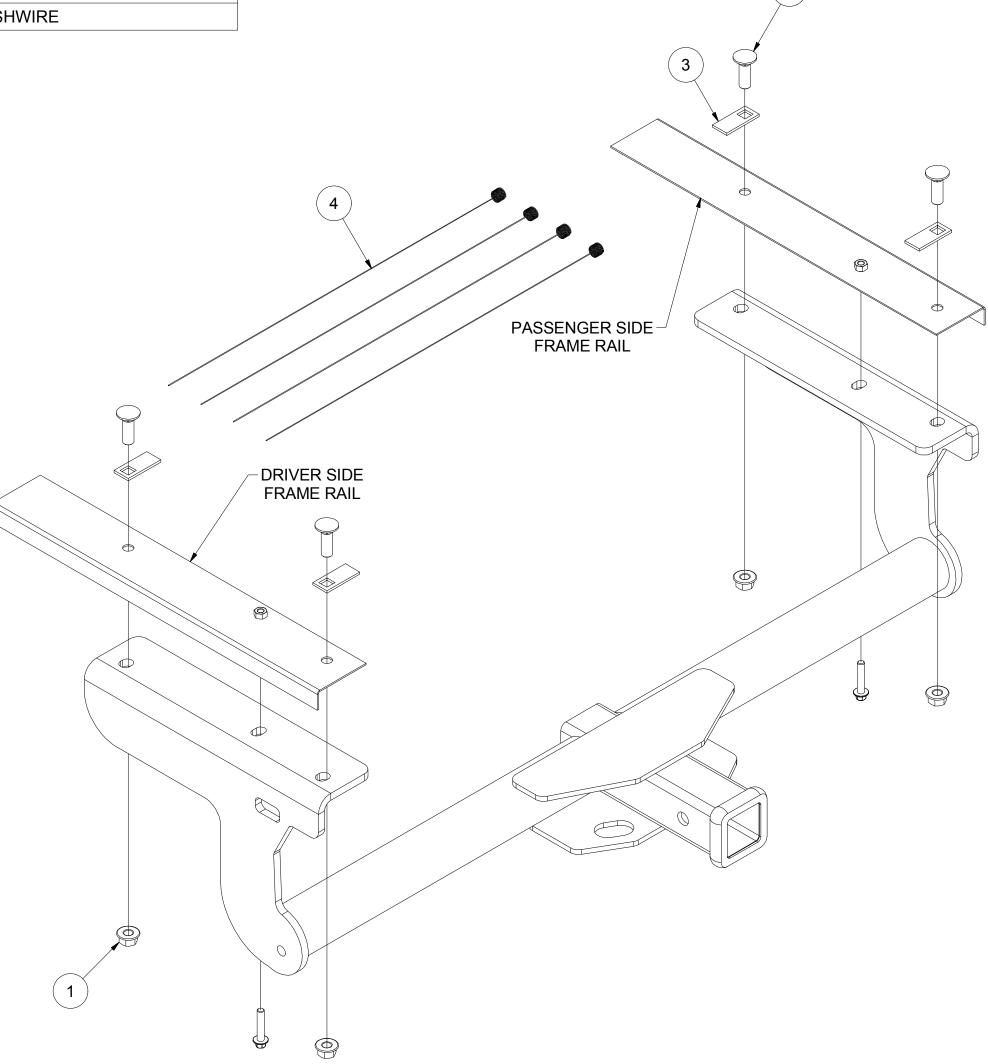
HITCH DURING MOUNTING AND PREVENT LOSS OF BOLT / **NOTE: SOME VEHICLES MAY FISHWIRE THROUGH END OF FRAME**



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).





HITCH WEIGHT: 53 LBS. **INSTALL TIME**

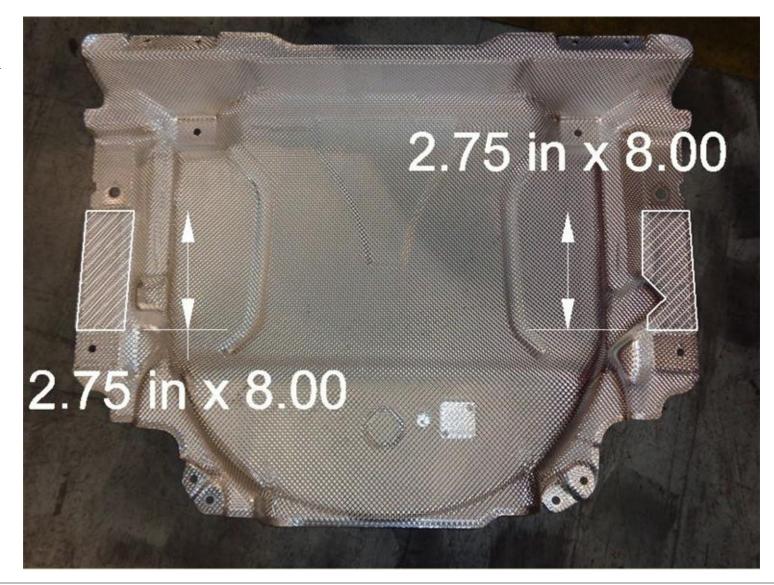
PROFESSIONAL: 45 MINUTES NOVICE (DIY): 90 MINUTES

INSTALL NOTES: -REVERSE FISHWIRE -LOWER EXHAUST -FISHWIRE HARDWARE -WELDNUT CLEANING

TOOLS REQUIRED RATCHET TORQUE WRENCH T25 SOCKET 10mm SOCKET 13mm SOCKET 8" EXTENSION **DRILL** 1/2" DRILL BIT SHEARS SAFETY GLASSES

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

HEAT SHIELD TRIM DIAGRAM



INSTALLATION STEPS

- 1. Remove (4) fasteners attaching the bottom of the fascia to the vehicle using a T25 socket.
- 2. Remove (2) M10 bolts for the exhaust brackets. Lower the Exhaust.
- 3. Remove (2) M6 bolts holding the heat shield using a 10mm socket. Remove (4) speed clips from studs holding the heat shield. Remove the heat shield, and trim as pictured in the diagram. Trimming: Use shears or a rotary cut-off wheel. Heat Shield: Trim along area as shown (Heat Shield Diagram) following the curvature of the heat shield.
- 4. Remove (4) fasteners located on each side in the wheel well using a T25 socket.
- 5. Gently remove bumper fascia, and detach sensors as needed. Mark sensors upon removal to ensure proper reattachment.
- 6. Align the hitch using the exhaust bracket attachments (M10 bolts). Using the hitch as a template, mark the hole locations on the vehicle frame.
- 7. Enlarge forwardmost hole to approximately 1" on each side of the frame using a die grinder.
- 8. Use 9/16" tap to drill the rearmost holes on each side of the frame at the previously marked locations using a drill.
- 9. Fishwire (1) 1/2" carriage bolt and spacer from the forwardmost hole to the rearmost hole on each frame rail.
- 10. Reverse fishwire (1) 1/2" carriage bolt and spacer into the forwardmost hole on each frame rail.
- 11. Raise hitch into position and pull fishwires so the bolts are in their final position. Remove the fishwires carefully and loosely install the supplied 1/2" hex flange nuts.
- 12. Raise exhaust into place. Loosely install the factory M10 bolts.
- 13. Torque all 1/2" bolts to 110 ft-lbs. Torque all M10 bolts to 48 ft-lbs.
- 14. Reassemble by repeating steps 1-5 in reverse order.

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