

Please read **BOTH** these Installation Instructions and the General Towing Instructions before attempting to install or operate this equipment.

- Blue Ox® towing products and accessories are intended to be installed by Blue Ox® Dealers who are familiar with our products and have the equipment and knowledge to do “fit work.” When necessary, Blue Ox® Dealers can be found at www.blueox.com or by contacting our Customer Care Department at (402) 385-3051.
- Many Blue Ox® Baseplates are designed to use existing holes and hardware to mount the baseplate to the towed vehicle. Even though bolts are there, do not assume they are adequate for baseplate mounting. Always use hardware supplied in the hardware kit or existing hardware specified in the Baseplate Towing Installation Instructions.

Attachment Tab Height: 21 1/2”
Attachment Tab Width: 18 1/2”

Bolt Torque Specifications

Torque in Foot-Pounds for Metric Bolts

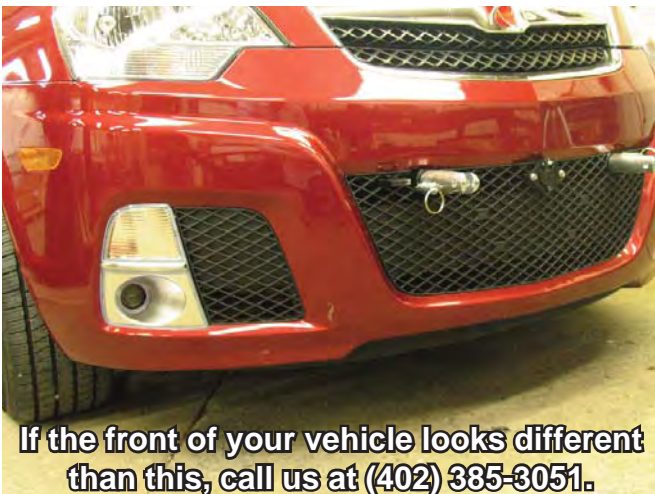
Bolt Size	Grade 8.8	Grade 10.9
6MM	6	8
8MM	16	22
10MM	31	40
12MM	54	70
14MM	89	117

Confirm the towability and pre-towing procedures for your vehicle with the owner’s manual or contact the vehicle’s manufacturer for specific towing procedures.

Bolt Torque Specifications

Torque in Foot-Pounds for Inch Bolts

Bolt Size	Grade 5	Grade 8
1/4”	10	14
5/16”	19	29
3/8”	33	47
7/16”	54	78
1/2”	78	119
5/8”	154	230



WARNING

Failure to read and follow these instructions could result in separation of the towed vehicle from the tow bar, causing property damage, loss of towed vehicle, personal injury or death.

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2008-10 Saturn Vue and Redline

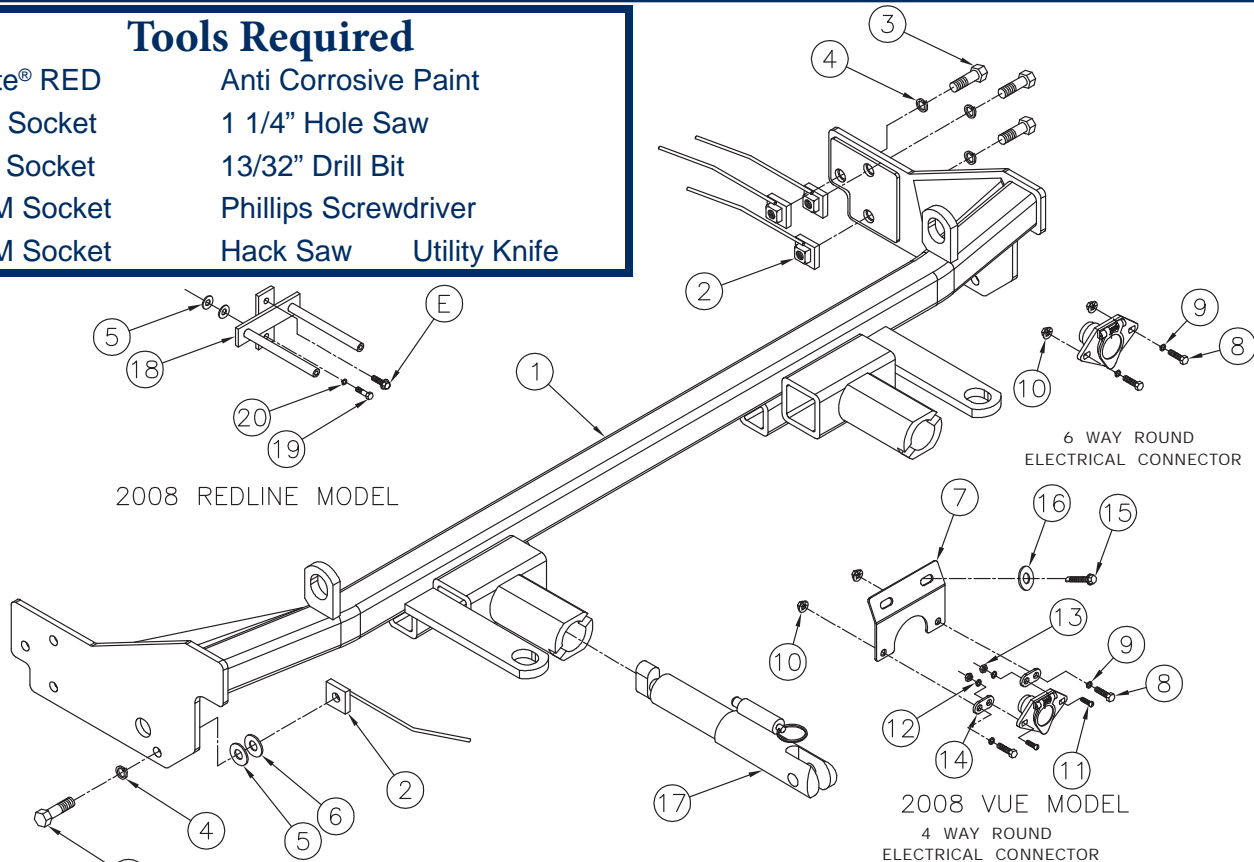
Installation Instructions

Parts List

Ref. No.	Qty.	Part #	Description
1	1	61-6416	Weldment, Baseplate, BX3331 & 32
2	8	61-5208	WLDT, NUT PLT, 1/4X1X1, 3/8 BLT WIR
3	8	201-0440	3/8-16 X 1 1/2 HEX BOLT, GRD.5, ZP
4	8	203-0010	3/8 LOCK WASHER, ZP
5	6	203-0002	5/16 FLAT WASHER, ZP
6	4	203-0003	3/8 FLAT WASHER, ZP
7	1	101-6645	BRACKET, ELECTRICAL, 20 DEGR
8	2	201-0569	1/4-20 X 3/4 HEX HD BOLT, GD 8 ZP
9	2	203-0008	1/4 LOCK WASHER, ZP
10	2	202-0069	1/4-20 HEX FLANGE WHIZ LOCK NUT, ZP
11	2	201-0192	#10-32-1/2" SLOT RD. HD. SCREW
12	2	203-0054	#10 LOCK WSHR
13	2	202-0047	#10-32 HEX NUT
14	2	101-5822	ADAPTER, 4 WAY CONNECTOR
15	2	201-0654	#10-16 Self Drilling Screw, ZP
16	2	203-0001	1/4" Flat Washer, ZP
17	2	62-3469	Attachment Assembly, SF/ LB, 1 Hole
18	1	61-6493	WLDM'T, FRAME BRACKET, TT
19	1	201-0655	6MM-1.0 X 30MM HEX BOLT, GRD8.8,ZP
20	1	203-0161	6MM, LOCK WASHER, ZP
E	1		BOLT
	2	290-0437	RECEIVER, CAP PLUG (BLK) (Not Shown)
	4	229-0359	QUICKLINK, 3/8, ZP (Not Shown)
	2	226-0046	BASEPLATE SAFETY CABLE, 36" CL III (Not Shown)

Tools Required

Loctite® RED	Anti Corrosive Paint
9/16" Socket	1 1/4" Hole Saw
7MM Socket	13/32" Drill Bit
10MM Socket	Phillips Screwdriver
12MM Socket	Hack Saw Utility Knife



Important: 3

Use only genuine factory replacement parts on your baseplate. Do **NOT** substitute homemade or non-typical parts. If a bolt is lost or in need of replacement, for your safety and the preservation of your baseplate, be sure to use a replacement bolt of the same grade (In most cases it will be Grade 5, please reference the parts list above). Replacement parts may be ordered through your nearest Blue Ox® Dealer or Distributor. Failing to follow and/or altering these installation instructions in either installation or required equipment will void the manufacturer's warranty. Towing behind a non-motorized vehicle will void the warranty.

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Vehicle Weight:

Motorhome mount tow bars are recommended for use with this baseplate. Due to the design of the removable tabs, the RangeFinderII, Adventurer, and Ambassador tow bars can not be used. The Acclaim tow bar may be used, but will not fold and store on the front of the vehicle. Adapters, except the BX8833 and BX88151, can not be used with this baseplate.

Installation Notes: The fascia is removed and reinstalled during installation of the baseplate. Drilling is required. Trimming of the fascia and air dam is required.

The dimensional variations between otherwise identical vehicles can be considerable. While the baseplate was designed for easy installation, it may be necessary to tailor the baseplate slightly to compensate for auto manufacturer's tolerances. These minor adjustments may include filing a hole slightly, bending electrical rods or bending end plates.

The BX8869 Bulb and Socket Wiring Kit is recommended for this vehicle.

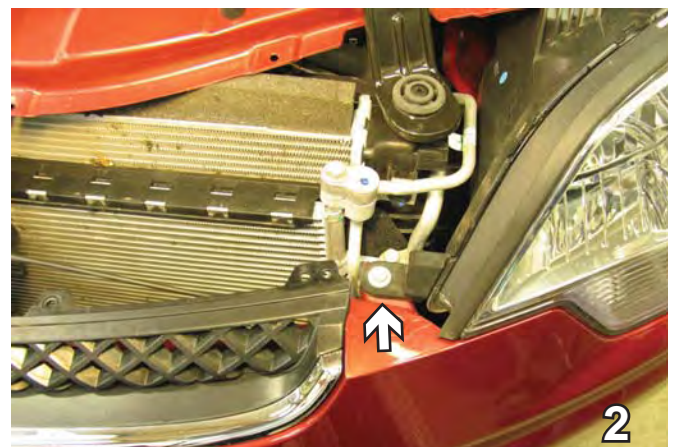


Handling of some cosmetic parts when installing this product may require the use of protective covers, rags, specialty tools, etc. to prevent damage.

Installation Instructions:



1. Using a phillips screwdriver, remove 11 pushpins from the flat plastic piece on top of fascia. Set pushpins aside to be reinstalled later.

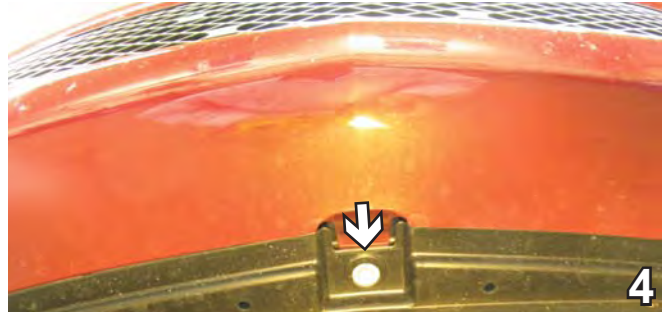


2. Using a 10MM socket, remove bolt on top edge of fascia. Do this both sides. Set bolts aside to be reinstalled later

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3. Using a 7MM socket, remove the hex bolt just forward the front tire. Up further (2B) forward the front tire, remove another hex bolt with a 7MM socket. Do this to both sides and set aside for later reinstallation.



4. Directly below the license plate there is a bolt underneath the fascia to be removed with a 10MM socket. Remove bolt and set aside for later reinstallation. Further underneath are three pushpins to remove.

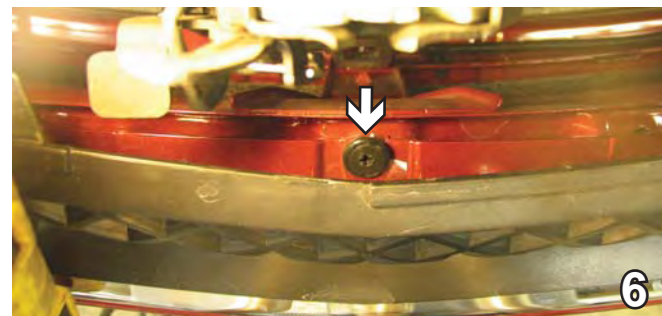


5. **VUE MODEL**
Just forward the front tire, underneath the fascia, use a 7MM socket to remove two screws. Using a 10MM socket, remove one screw (gray arrow) next to the other two screws. Set screws aside to be reinstalled later. Do this to both sides of the vehicle.

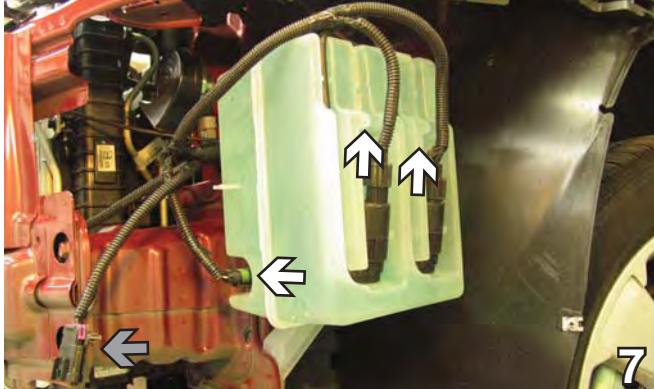


5. **REDLINE MODEL**
Just forward the front tire, underneath the fascia, use a 7MM socket to remove two screws. Using a 10MM socket, remove one screw (gray arrow) next to the other two screws. Set screws aside to be reinstalled later. Do this to both sides of the vehicle.

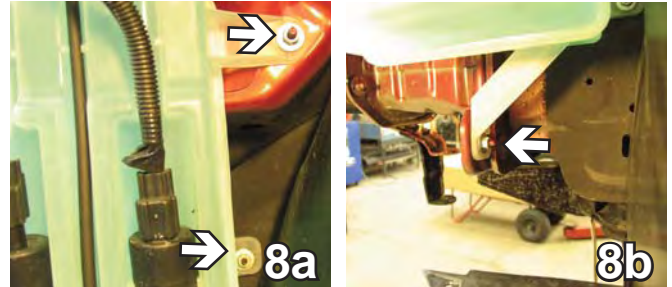
6. Straight down in front of the latch and just behind upper grille, remove the black push pin. Set aside for later reinstallation. Pull fascia corners out to the side of vehicle, both sides, then pull fascia forward and set aside carefully for later reinstallation.



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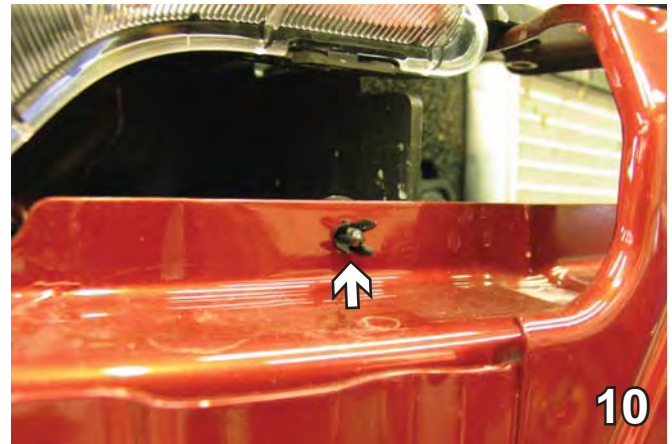
7. Disconnect hoses and unplug water reservoir from drivers side to begin removing the unit. Also unplug the one main plug in the front (gray arrow).



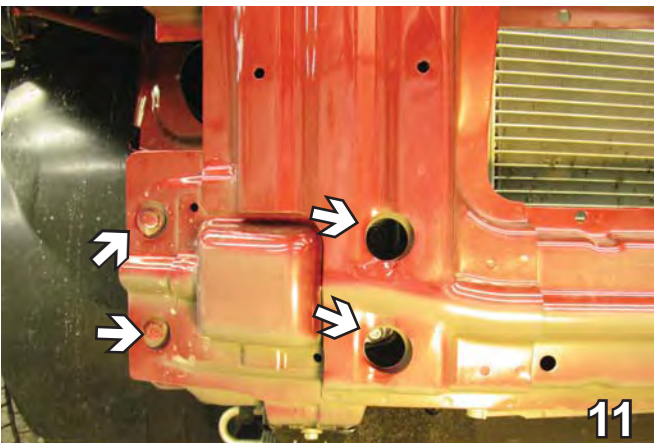
8. Using a 10MM socket, remove three bolts just forward the front tire, to remove the water reservoir. Set aside bolts and water reservoir for later reinstallation.



9. You will need to remove an air baffle on the passengers side using a 10MM socket. Remove two bolts separating connection tube and set aside later for reinstallation.



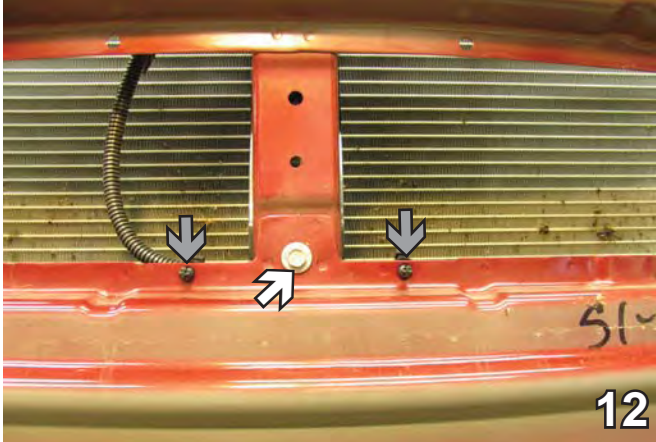
10. On the passenger side only, remove the push pin that is on the backside of bumper, just below the headlight, by pushing the center piece out.



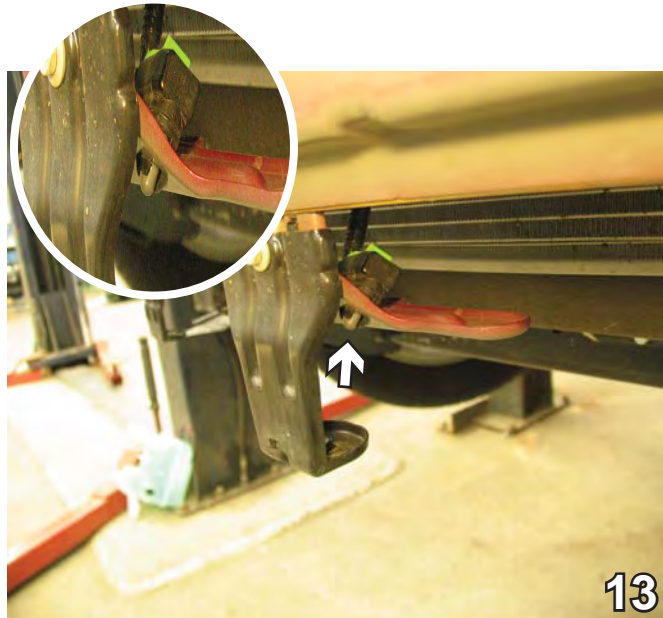
11. Remove four bolts using a 12MM socket. Do this to both sides of the vehicle. Set aside bolts and metal bumper for later reinstallation.

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12. Using a 10MM socket, remove one bolt from the center of metal H-frame bumper. Also remove two push pins located behind metal piece (gray arrows) from the wire harness. Set bolt and pushpins aside to be reinstalled later.



13. In the center of the metal bumper is a temperature sensor that needs to be removed. Depress clips on the front side of bracket and push the sensor back and set up out of the way. This will all be reinstalled in the same place later. Pull H-Frame bumper forward to release. Set aside to be reinstalled later.

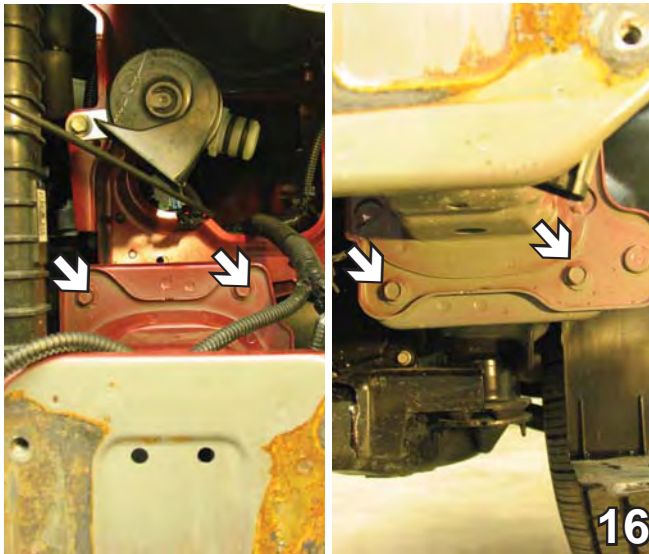


14. On the passenger side, remove the push pin from the top of the air dam. Do this to both sides. Set air dams and pushpins aside to be reinstalled later.



15. On the driver's side, remove the Christmas tree pin holding the wire loom. Pull wire loom out of the way. Set Christmas tree pin aside to be reinstalled later.

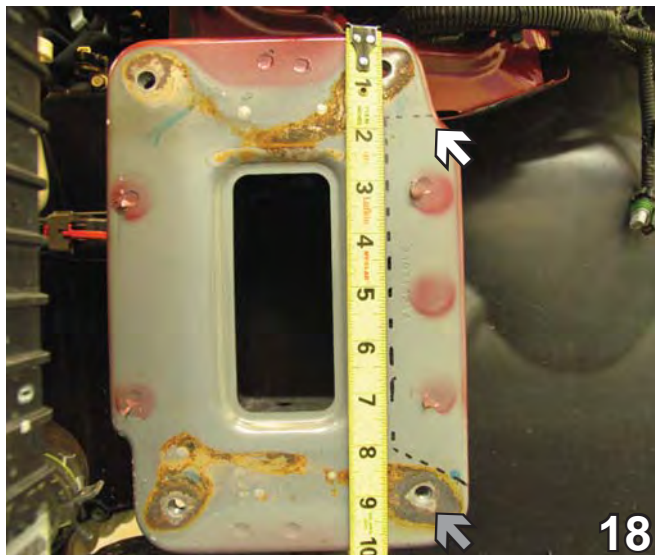
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16. To remove frame extension, remove 4 bolts (two on top, two on bottom) using a 12MM socket. Do this to both sides. Set aside extension and bolts for later reinstallation.

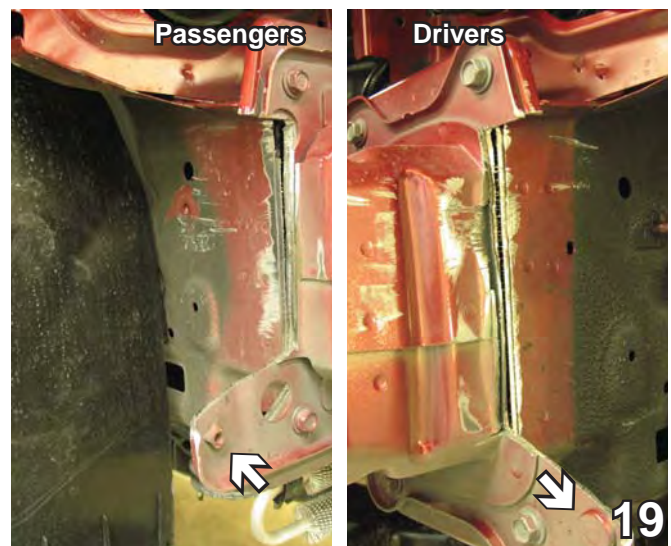


17. Measure and mark on the side of frame end 1 1/2" wide. Do this to both sides. ****NOTE:** 1 1/2" measurement may vary depending on the model of vehicle and is intended to be flush with side of the frame (see photo in Step 19).



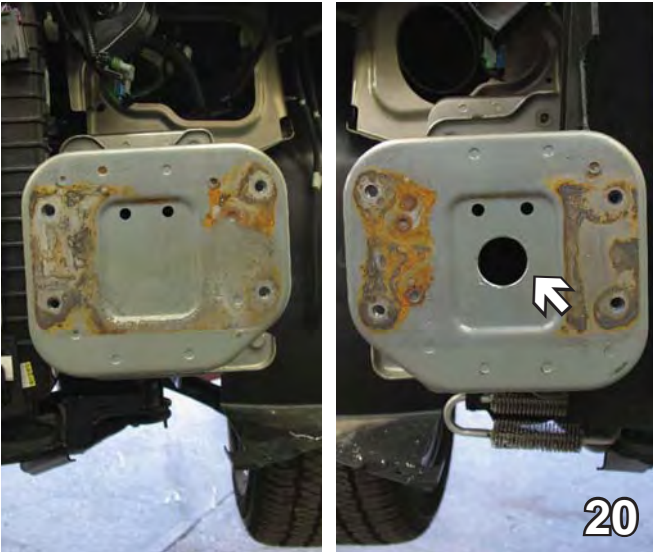
18. Using a reciprocating saw, start a horizontal cut flush with the frame 1 3/4" down from the top and go down to 8" then down at an angle to miss the bolt hole (see gray arrow). Do this to both sides.

Using a good quality paint, spray cut edges of frame to prevent rusting.

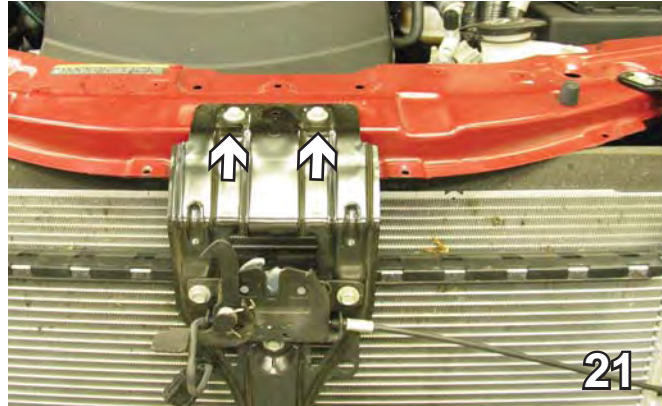


19. Reinstall frame extension, mark and remove same area as step 18 with reciprocating saw. The above photos show the extensions after completion. It may be necessary to remove the extensions to cut them. **NOTE,** leave the weld nut on the passenger's side, and the threaded stud for the water reservoir on the to be reinstalled on the driver's side.. Reinstall the passenger's side frame extension. The driver's side will be reinstalled later.

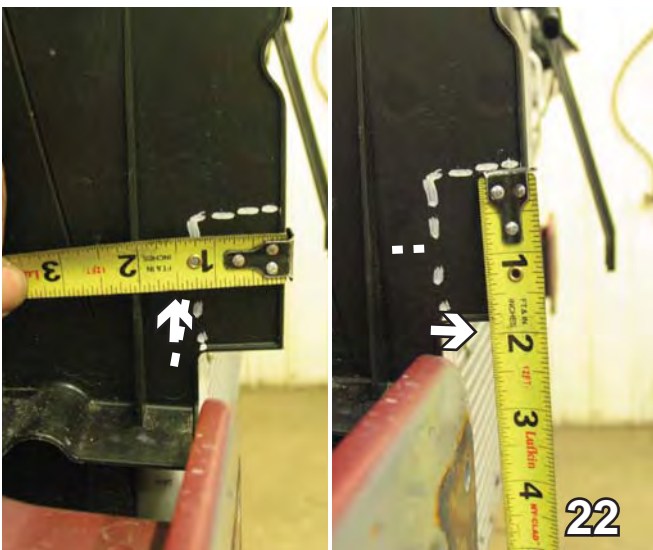
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20. With a 1 1/4" hole saw, drill a hole into the center of the indent on the frame extension to set wire nut for baseplate installation. Do this to both sides.



21. Remove two bolts holding hood latch in with a 10MM socket. Set aside for later reinstallation BEFORE bumper bracket.



22. Trim air dam 1 1/2" wide by 2" tall. This is done only on passengers side.

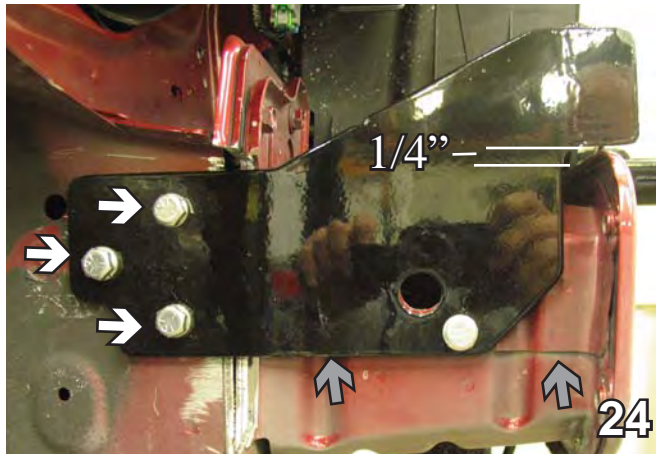


23. Reinstall driver's side frame extension while sliding baseplate onto frame end, then reinstall extension. Clamp and align lower edge of baseplate flush with ridge on side of extension and 1/4" above top ridge of frame extension (see photos in steps 24 and 25 for correct placement). Align large hole on passenger side with existing large hole on frame extension and adjust driver side an equal distance forward. Using the baseplate as a template drill all holes into frame and extension with 13/32" drill bit. Do to both sides.

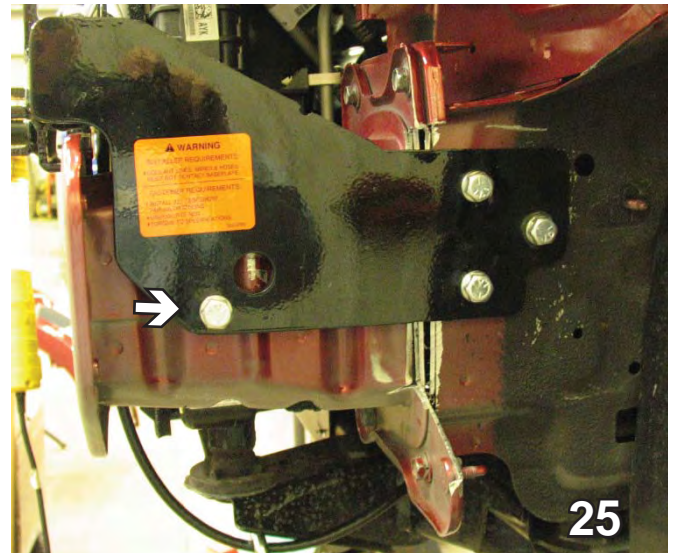
When using power drills be aware of the dangers of torque and drill bit length.

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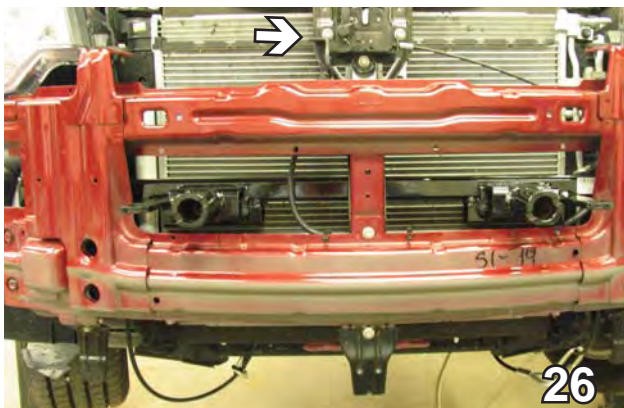


24. Be sure that the baseplate is level with the frame extension ridge before tightening (see gray arrows). Insert nut plates into frame extension end and align with baseplate holes, install and tighten with Loctite Red, all 3/8-16 x 1 1/2" hex bolts with 3/8" lock washers into nut plates. Do to both sides.

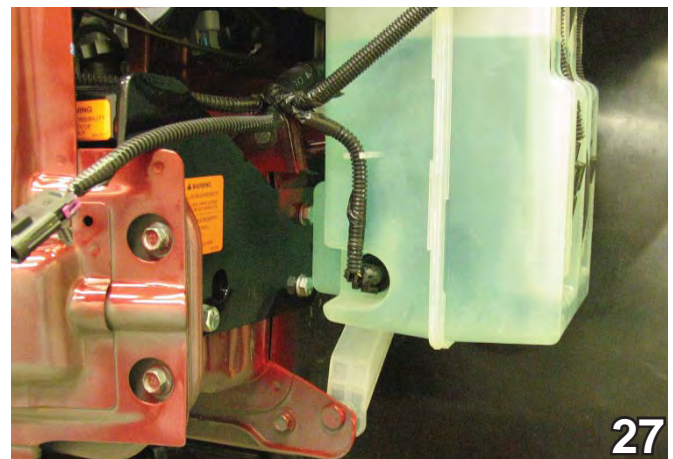


25. Place two 5/16" or 3/8" flat washers between the baseplate and extension as needed to fill gap, then insert 3/8-16 x 1 1/2" hex bolt and 3/8 lock washer, tighten into nut plate.

BE SURE TO USE LOCTITE® RED ON ALL BOLTS BEFORE TIGHTENING. TIGHTEN ALL BOLTS ACCORDING TO THE TORQUE CHART ON THE FRONT PAGE OF THESE INSTRUCTIONS OR ON PAGE 3 OF THE BASEPLATE TOWING GENERAL INSTRUCTIONS.



26. Reinstall hood latch assembly and metal bumper by using existing holes and bolts.

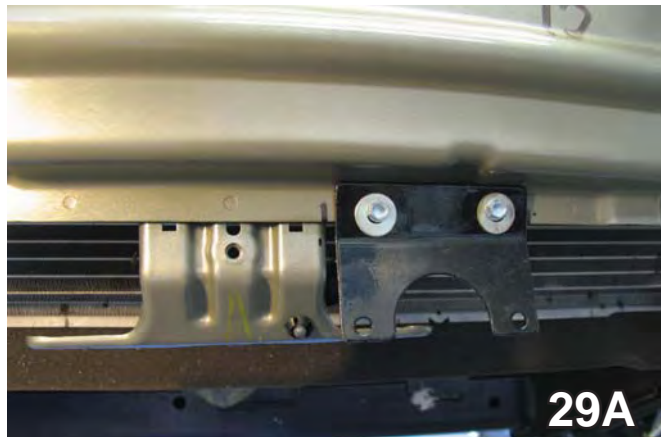


27. Replace water reservoir to existing holes with existing bolts, clip fluid and electrical lines back into place.

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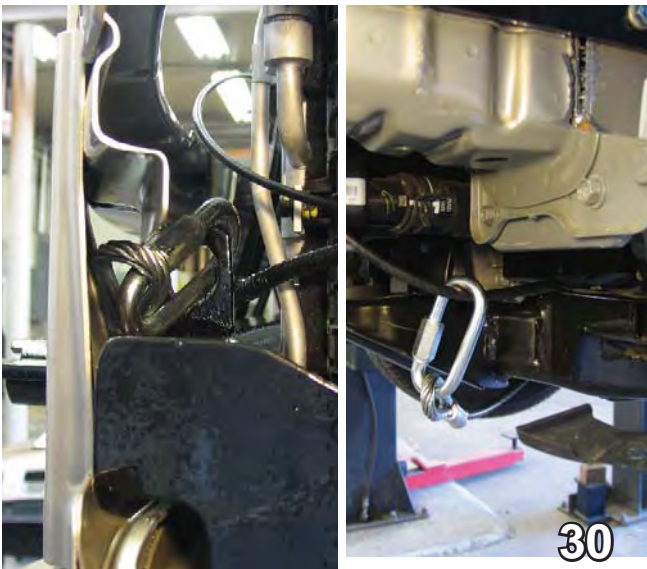


28. Reattach air baffle with existing holes and existing bolts.

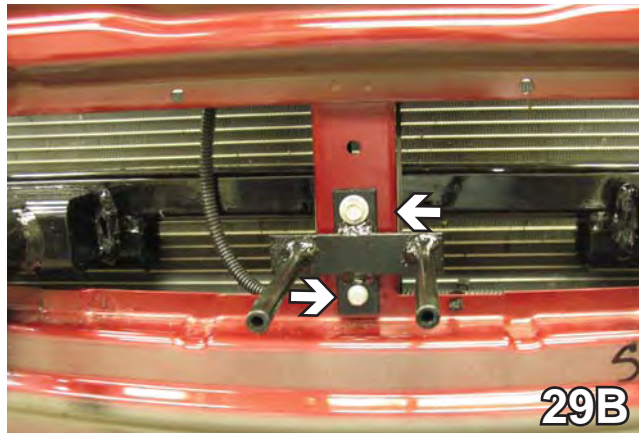


29. VUE MODEL

Keeping a 3/16" gap to the right of the center on the lower metal bumper support, place the connector as high as you can on the webbing and install with #10-16 self-drilling screws and 1/4" flat washers.



30. Attach the permanent baseplate safety Attach the permanent baseplate safety cables to the provided convenience link on the baseplate. The photo above shows the recommended installation of the cables to frame of vehicle. Additional options may interfere with suggested mounting; in this case secure the cables to a solid piece of the frame as described in the instructions included with the permanent baseplate safety cables. Be sure the safety cables do not rub against any hoses or moving parts. Do this to both sides of the vehicle.



29. REDLINE MODEL

Use the existing bolt in the top hole of the connector and install with 6MM x 30MM hex bolt and 6MM lock washers with two 5/16" washers behind to get the bracket flush.

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31. REDLINE MODEL

Hold fascia as close to it's original position as possible, trim grille opening as needed. Reinstall fascia, then install connector plug, use a 10/32" drill to work on the 4-way connector plug. Using a 6-way connector plug attach with a 1/4" x 1/2" drill with whiz nut.

Be sure that **ALL** electrical connections are plugged in properly and functioning **BEFORE** installing the fascia.



32. VUE MODEL

Hold fascia as close to it's original position as possible, trim grille opening as needed. Reinstall fascia, then install connector plug, use a 10/32" drill to work on the 4-way connector plug. Using a 6-way connector plug attach with a 1/4" x 1/2" drill with whiz nut.

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Install the tow bar and safety cables according to the instructions provided in their packages. When demonstrating this to the customer, be sure to include all the contents and packages.

Do **NOT** substitute other devices if the tow bar pins and clips are misplaced.

DEALER or INSTALLER:
Be certain the user receives the instruction sheets for their products.



If the baseplate is in an accident, it must be replaced. DO NOT use it again! An accident can cause unseen damage and using it again could result in more damage or serious injury. DO NOT use the baseplate if it is damaged or missing parts.

CUSTOMER SERVICE COMMITMENT

Blue Ox is committed to providing you with exceptional customer care throughout your lifetime with our products. Our team is here to assist you with any questions you may have regarding the performance of your product. Simply call (402) 385-3051 and you can speak with our customer care team.

Additionally, please visit our website to see which rallies our Destination America team will be attending. For a nominal fee, our service technician will service your towing system to ensure it's in proper working condition. Also as a commitment to our customers, should you visit our factory you can stay at our full service Blue Ox campground at no charge along with enjoying a factory tour.

Again thank you for being our customer and for the confidence you have shown in the performance of our products. It is because of customers like you we enjoy the success we have today.



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