

BX3335



Baseplate Installation Instructions

# 2006-07 Saturn Vue No Red Line Edition

## Installation Instructions

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

1. 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 necessary and knowledge to do “fit work”.
2. 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 and existing hardware specified in the Baseplate Installation Instructions.

Attachment Tab Height: 15”

Attachment Tab Width: 18”

### 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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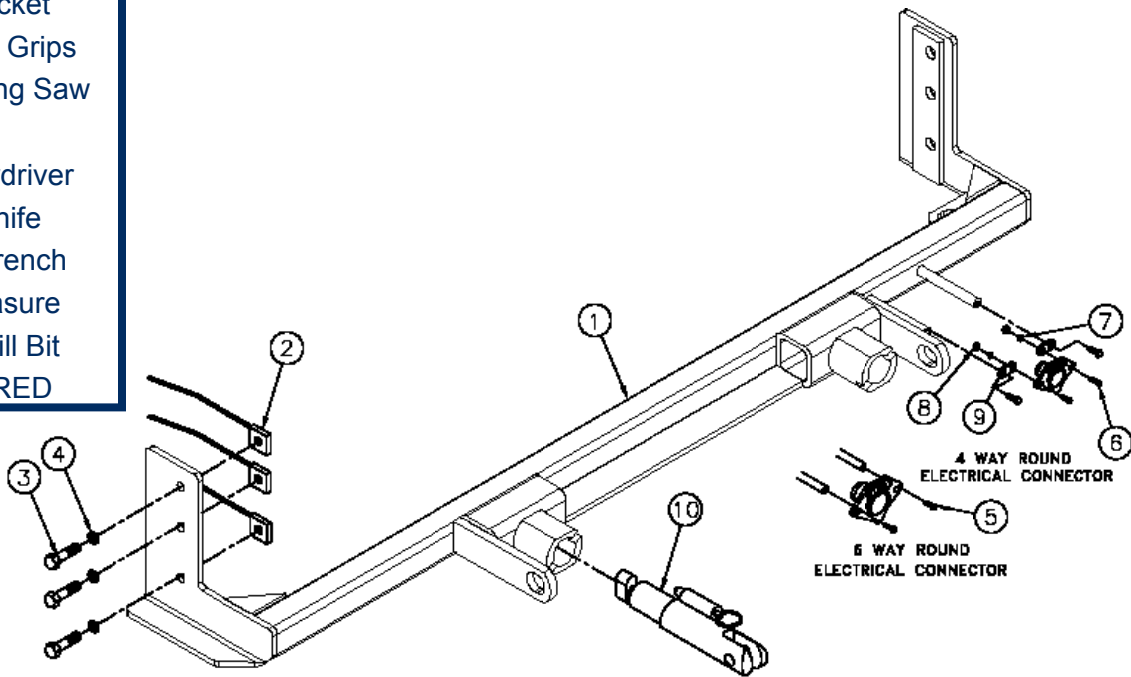
### Installation Instructions

### Parts List

Ref. No.	Qty.	Part #	Description
1	1	61-6780	Weldment, Base Plate, BX3335
2	6	61-5208	3/8-16 Nut Plate
3	6	201-0444	3/8-16 x 2 Bolt, Grade 5, ZP
4	6	203-0010	3/8 Lock Washer, ZP
5	2	201-0979	#12-14 x 1" Self Drilling Screw, ZP
6	2	201-0192	#10-32 x 1/2" Slot Rd. Hd. Screw
7	2	203-0054	#10 Lock Washer
8	2	202-0047	#10-32 Hex Nut
9	2	101-5822	Adapter, 4 Way Connector
10	2	62-3468	Attachment, Assembly SB/SF (R)
	1	101-6845	Electrical Bracket (Not Shown)
	2	226-0046	Baseplate Safety Cable, 36" CL III (Not Shown)
	4	229-0359	Quicklink, 3/8, ZP (Not Shown)
	2	290-0437	Cap Plug Receiver (Not Shown)

### Tools Required

- 7MM Socket
- 10MM Socket
- 9/16" Socket
- Large Vise Grips
- Reciprocating Saw
- Drill
- Flat Screwdriver
- Utility Knife
- Torque Wrench
- Tape Measure
- 13/32" Drill Bit
- Loctite® RED



### Important:

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).

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### Attachment Tabs:

Motorhome mount tow bars are recommended for use with this baseplate. Due to the design of the removable tabs, the RangeFinder II, 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.

### Instructions:

The front fascia and styrofoam bumper are removed and reinstalled during the baseplate installation. Drilling is required. Trimming of the bumper bracket and styrofoam bumper is required.

Some vehicles fascias may need trimming. 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.



### Installation Instructions:



1. Remove four metric bolts with hood bumpers from the top side of the front fascia using a 7MM socket. Set aside to be reinstalled later.



2. Just forward of the front tires, on the edge of the wheel well, remove five push pins. Set aside to be reinstalled later. This is done to both sides of the vehicle, the driver's side is shown.

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



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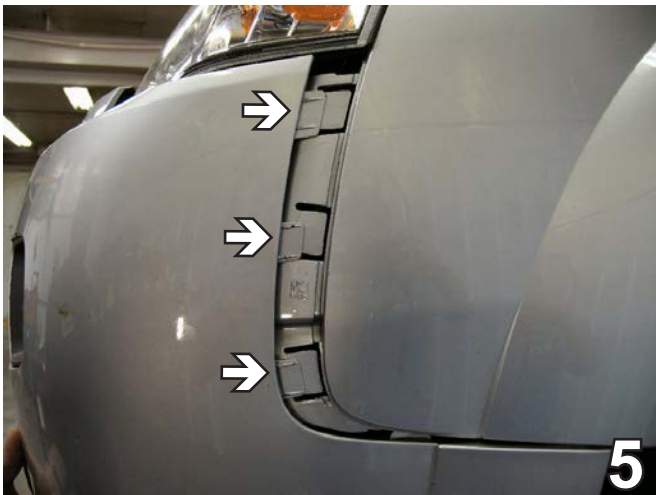
## Installation Instructions



3. Pull wheel well cover back and remove one metric bolt from the fascia's corner using a 10MM socket. Set aside to be reinstalled later. This is done on both sides, the driver's side is shown.

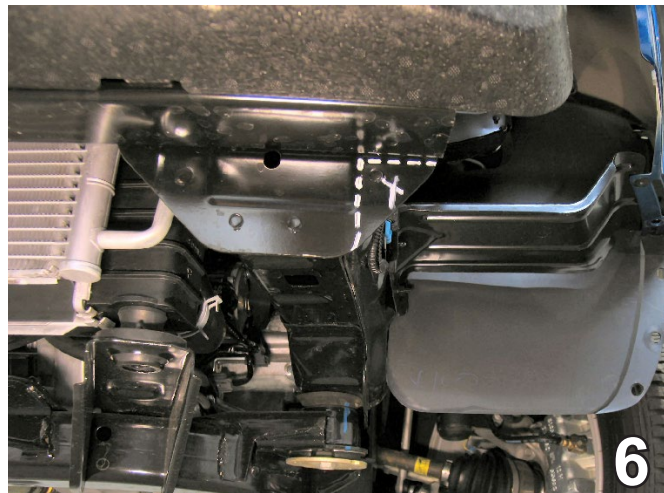


4. Remove three push pins from lower edge of fascia, just behind fascia's lower air dam. Set aside to be reinstalled later.



5. Locate the three clips behind fascia, just forward of the front tire, inside wheel well. While pulling the fascia forward, release the clips-starting with the lower one and working your way up-by pulling the clips toward the radiator with a small flat screwdriver. Do this to both sides of the vehicle, the driver's side is shown. **BE CAREFUL! DO NOT BREAK OFF FASCIA'S CLIPS.** Pull fascia forward, unplug the electrical connections if vehicle has fog/ running lights, and set the fascia aside carefully to be reinstalled later.

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



6. Using a reciprocating saw, make a horizontal cut just below the metal bumper on the bumper bracket into the outside edge of the frame. Do this on both sides of the vehicle. Make a vertical cut on the bumper bracket flush with the outside of the frame channel. Do this on both sides of the vehicle. **BE sure NOT to cut into the frame channel with either of these cuts.** This will open the area to prepare it for baseplate installation. The driver's side is shown.

**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.**

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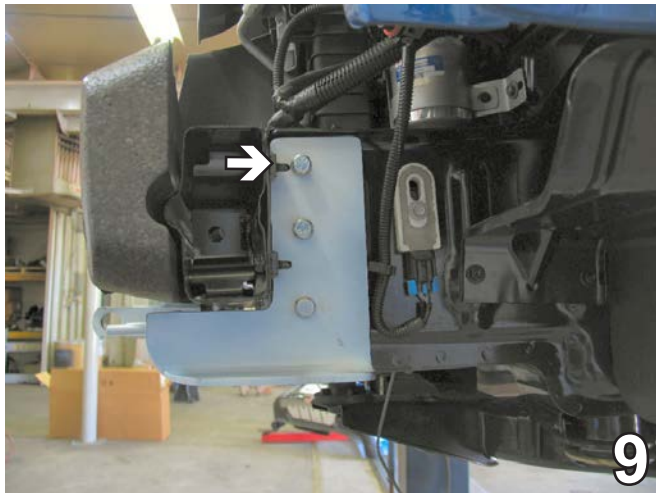
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7. Remove two large push pins from the Styrofoam bumper. Set Styrofoam and push pins aside to be reinstalled later.



8. Slide the baseplate onto the outside of the frame rail just behind bumper bracket and up as far as possible. Clamp the baseplate to the end of the metal bumper on both sides of the vehicle. Using the baseplate as a template, drill three holes into the side of the frame rail with the 13/32" drill bit. Do this to both sides, the driver's side is shown.



9. Locate the square opening on the bottom side of the frame rail. Insert the 3/8-16 nut plate with the wire into the square opening and align with drilled holes inside the frame. Insert 3/8-16 x 2" hex bolts and 3/8" lock washers into baseplate holes and tighten into nut plates. Do this to both sides, the driver's side is shown.
10. Attach the permanent baseplate safety cables to the provided convenience link on the baseplate. Secure the cables to a solid piece of the frame as described in the instructions included with the permanent baseplate safety cables, additional options may interfere with suggested mounting. Be sure the safety cables do not rub against any hoses or moving parts. Do this to both sides of the vehicle.



11. With baseplate installation completed, set Styrofoam as close to its original position as possible. Mark and cut the bottom of the Styrofoam 1/2" deep around the attachment tab receiver area with a utility knife and remove this portion of the Styrofoam. This is done to both sides of the vehicle, the driver's side is shown. Reinstall Styrofoam with the existing two large push pins.

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

12. Reinstall the fascia.



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## Installation Instructions

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.**



**With removable tabs installed.**



**Without removable tabs installed.**

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.

# General Information

1. It is the owner's responsibility to inspect all towing equipment for cracked welds, missing or worn parts and loose bolts before each towing trip. Be sure to use Loctite® Red on all bolts and tighten to the recommended specifications.
2. It is the owner's responsibility to hook up all towing equipment per manufacturer's instructions/recommendations.
3. Remove the attachment tabs when not in use (if applicable).

## Notice To Baseplate Installer

1. It is YOUR responsibility to watch for:

- Oil cooler and air conditioner lines
- Electrical wires and hoses
- Missing parts or attaching points on the frame

\*\* If the baseplate is improperly installed and is against a wire or hose, it could cause fluid leaks or electrical shorts some time after the actual baseplate installation.

## Permanent Baseplate Safety Cable Installation

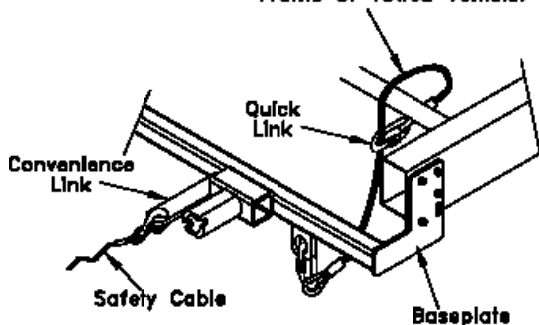
Permanent baseplate safety cables are strongly recommended when towing a vehicle with a tow bar. The principle function of the permanent baseplate safety cables is to prevent the towed vehicle from breaking loose in the event the connection between the frame of the towed vehicle and the baseplate fails or becomes disconnected. The cables must be connected from the baseplate to the frame rail or cross member of the vehicle's frame. The illustrations below show the possible arrangements recommended by Blue Ox®. Each permanent baseplate safety cable must have an adequate weight rating for the towing system. The weight rating of the two (2) cables together will not qualify.

***Do not mount the permanent baseplate safety cables against wires, hoses or brake lines.***

These permanent baseplate safety cables should remain installed as long as the baseplate is installed on the vehicle. Permanent baseplate safety cables are to be used in conjunction with, and NOT a replacement for legally required safety cables attaching the towed vehicle to the towing vehicle.

### OPTION #1

Permanent Baseplate Safety Cables to Cross Member or Frame of Towed Vehicle.



### OPTION #2

Permanent Baseplate Safety Cables to Cross Member or Frame of Towed Vehicle.

