



# 2005-07 Saturn Ion Red Line/No Fog lights Installation Instructions

Serial Number

**Please read BOTH these Installation Instructions and the General 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 necessary and knowledge to do "fit work". When necessary Blue Ox® Dealers can be found at [www.blueox.com](http://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 and existing hardware specified in the Baseplate Installation Instructions.

Attachment Tab Height: 13.5"  
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



**If the front of your vehicle looks different than this, call us at (402) 385-3051.**

**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.

# BX3327

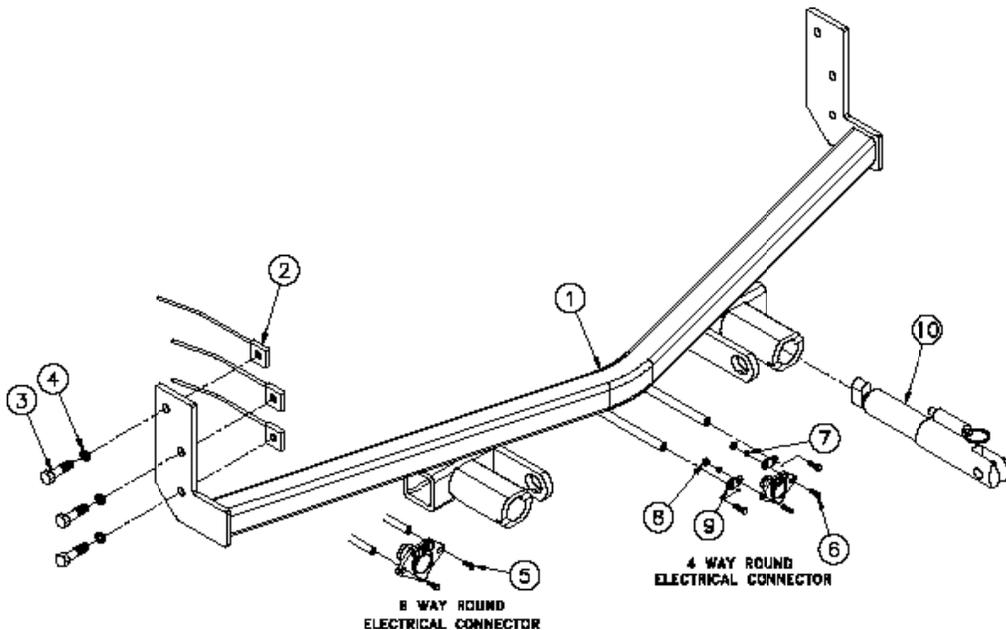
## 2005-07 Saturn Ion

### Red Line/No Fog Lights

### Installation Instructions

### Parts List

Ref. No.	Qty.	Part #	Description
1	1	61-6184	Weldment, Baseplate, BX3327
2	6	61-5208	Weldment, 3/8-16 Nut Plate, w/ 14" wire
3	6	201-0440	3/8-16 x 1 1/2" Hex 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--3469	Attachment. Assembly, SF/LB (R)
	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 (Not Shown)



### Tools Required

10MM Socket  
 7MM Socket  
 8MM Socket  
 9/16" Socket  
 1/4" Socket  
 13/32" Drill Bit  
 Utility Knife  
 Tape Measure  
 Large Vise Grips  
 Reciprocating Saw  
 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). Replacement parts may be ordered through your nearest Blue Ox® Dealer or Distributor, or call our Customer Care Team at (402)385-3051. Failing to follow and/or altering these installation instructions in either installation or required equipment will void the manufacturer's warranty.

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### Attachment Tabs:

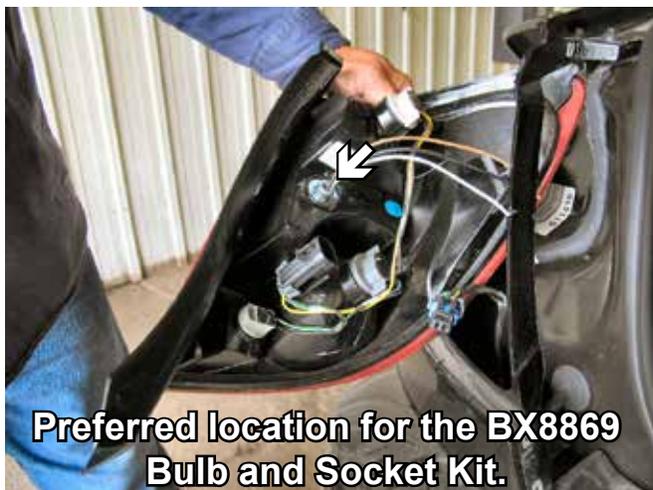
Motorhome mount tow bars are recommended for use with this baseplate. Due to the design of the removable tabs, the RangeFinder II and Ambassador tow bars can not be used. Adapters, except the BX8833 and the BX88151, can not be used with this baseplate.

### Instructions:

The front fascia, horn, Styrofoam bumper, air intake tube, and headlight assembly, are removed for the baseplate installation. Drilling is required. Trimming of the 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, and/ or bending end plates.

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



### Installation Instructions:



1. Using a 7MM socket, remove four metric bolts from the top side of the fascia. Set bolts aside to be reinstalled later.



2. Inside the wheel well, just forward of the front tire, use a 7MM socket to remove one metric bolt, as indicated by the grey arrow in the photo above. Remove two pushpins, as indicated by the white arrows in the photo above. Set bolt and pushpins aside to be reinstalled later. Do this to both sides of the vehicle.

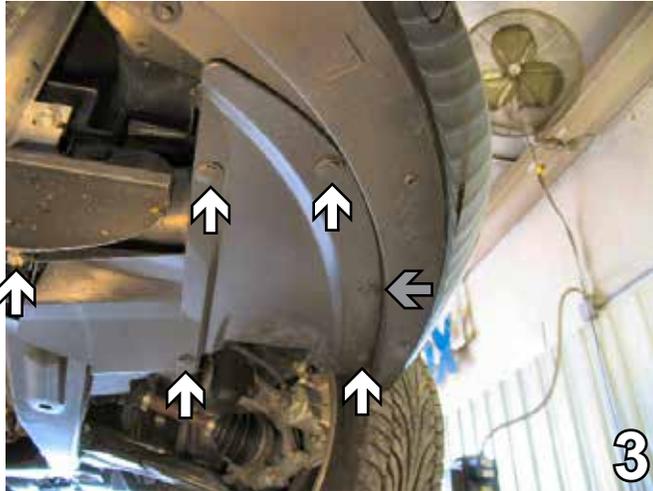
Handling of some cosmetic parts when installing this product may require the use of protective covers, rags, specialty tools, etc. to prevent damage.

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3. Remove six pushpins on the underneath corner of the fascia as indicated by the arrows in the photo. The pushpin indicated by the grey arrow is only on the driver's side of the vehicle. Do this to both sides of the vehicle. Pull fascia corner to the side and release three clips on each side, pull fascia forward. Set the fascia and pushpins carefully aside to be reinstalled later.



4. Remove one pushpin from the Styrofoam bumper. Set Styrofoam bumper and pushpin aside to be reinstalled later.



5. Using a 10MM socket, remove one metric bolt from the horn bracket. Disconnect the horn and bracket. Set all aside to be reinstalled later. Do this to both sides of the vehicle.



6. Using an 8MM socket, remove one metric bolt from between the metal bumper and the frame rail on the passenger's side and trim away the remaining tab with a utility knife.

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7. On the driver's side, remove one pushpin from between the metal bumper and the frame rail. Using a utility knife, cut along the bend to remove the tab of the air dam.



8. Mark and trim away air dam 1" up from the bottom corner, see the grey arrow in the photo above. Do this to both sides of the vehicle.



9. Using the reciprocating saw, cut the webbing under the metal bumper. Cut flush with the bottom of the bumper and the frame rail edge. Do this to both sides of the vehicle.



10. Using a 1/4" socket, loosen up the clamp on the air intake tube. Using a 10MM socket, remove the metric bolt securing the tube. Remove the air intake tube and set aside with bolt and clamp to be reinstalled later.

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11. Rotate the headlight assembly rods until they point toward the front of the vehicle, pull up and out to remove them. Pull headlight assembly forward and disconnect electrical connections. Set rods and headlight assembly aside to be reinstalled later. Do this to both sides of the vehicle.



12. Release Christmas tree clip to move electrical cable out of the way for drilling.



13. Slide the baseplate onto the frame rail and position it as close to the rear of the metal bumper as possible and as high, (toward the top of the frame rail) as possible. Clamp the baseplate to the frame rail using the large vise grips. Using the baseplate as a template, drill three holes in the frame rail with the 13/32" drill bit.



14. Insert the 3/8-16 nut plates up through the opening found underneath the frame and align with the drilled holes. Insert the 3/8-16 x 1 1/2 hex bolts and 3/8" lock washers into the drilled holes, align with 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.**

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15. Reattach the air intake tube to its original position. **NOTE:** DO NOT over tighten the clamp.
16. Reattach the electrical cable to its original position.
17. Reinstall headlight assemblies and fascia. Insert all rods, pushpins and bolts. Baseplate installation is now complete.

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.

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

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

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Installation Instructions



**With removable tabs installed.**



**Without removable tabs installed.**

## 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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# General Information

1. Ensure that your product(s) are registered online at [www.blueox.com](http://www.blueox.com). It is crucial to register your product(s) so that you may be alerted of product offerings, updates, upgrades, maintenance and safety bulletins, and/or recalls.
2. **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.
3. **It is the owner's responsibility to hook up all towing equipment per manufacturer's instructions/recommendations.**
4. 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

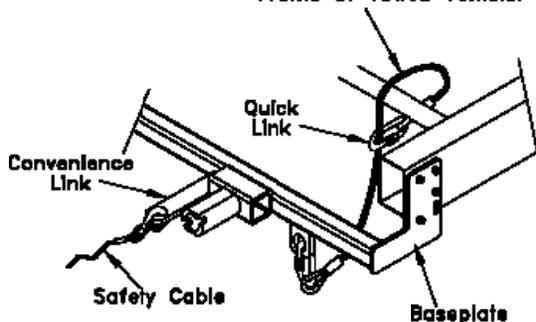
Permanent baseplate safety cables are strongly recommended when towing a vehicle with a tow bar. The principle function of the permanent baseplate safety cables is to prevent the towed vehicle from breaking loose in the event the connection between the frame of the towed vehicle and the baseplate fails 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.

