



BX3787

2011-13 Toyota Highlander Installation Instructions

Attachment Tab Height: 18"

Attachment Tab Width: 22"

Serial Number

Please read **BOTH** these Installation Instructions and the General Instructions prior to installing or operating 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 necessary to do "fit work". If needed, 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 the hardware supplied in the hardware kit and existing hardware as specified in the installation instructions.

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
3/4"	257	380



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

Reference your vehicle owner's manual for manufacturer's towing specifications.

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
16MM	161	230
18MM	222	318



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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2011-3 Toyota Highlander
Installation Instructions

Instruction Notes: The fascia, windshield washer fluid reservoir and front grill are removed and reinstalled for the baseplate installation. Some drilling and trimming is required.

Place all components that are removed on a flat, sturdy surface. All items will be reinstalled unless otherwise noted after the baseplate is installed.

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 vehicle manufacturer's tolerances.

The BX8848 4 Diode Wire Kit is recommended for this vehicle.

NOTICE

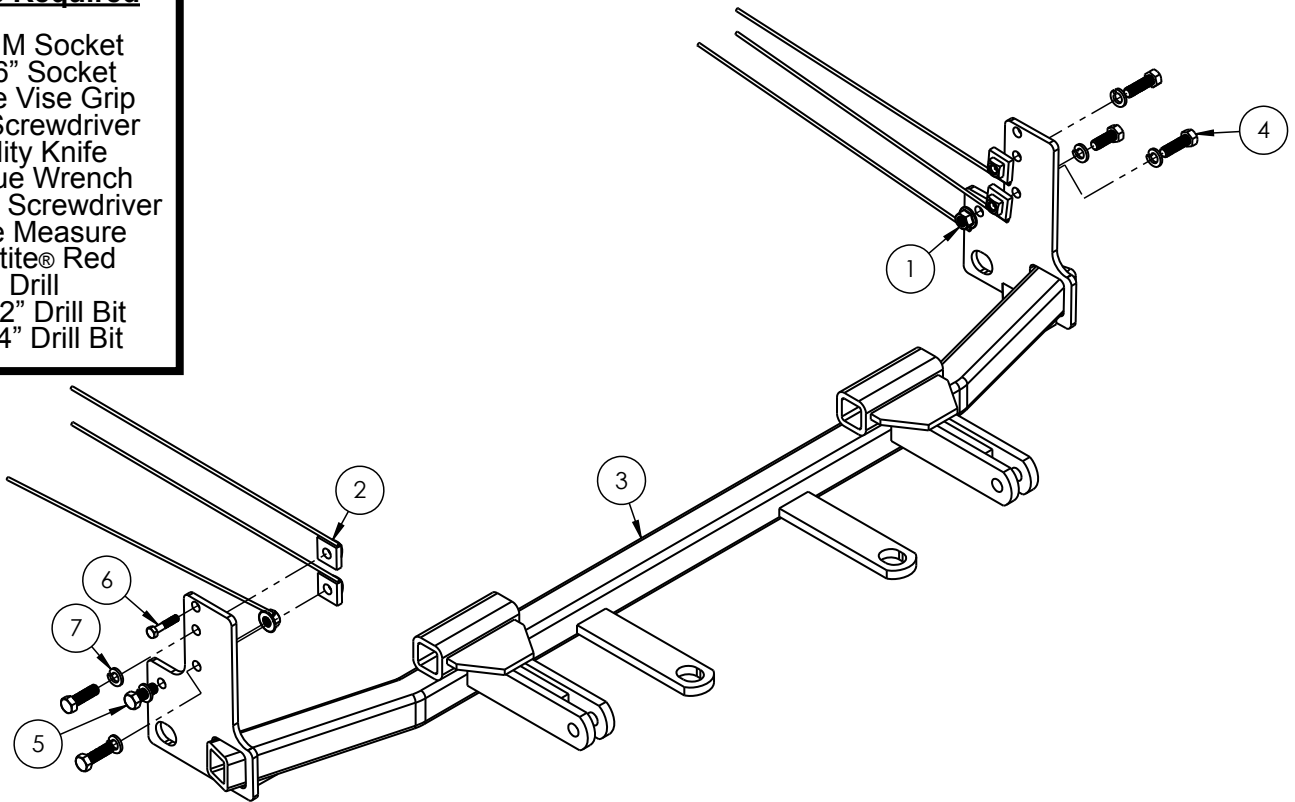
- Handling of some cosmetic parts when installing this product may require the use of protective covers, rags, specialty tools, etc. to prevent damage.
- When using power drills be aware of the dangers of torque and drill bit length.
- When using a reciprocating saw be aware of objects behind the cutting surface.
- Use a good quality paint to spray cut edges of frame to prevent rusting.
- Be sure that **ALL** electrical connections are plugged in and accessories are functioning properly before reinstalling the fascia.
- The baseplate is computer tested to your vehicle's GVWR, exceeding this weight will void the manufacturer's warranty.
- Be sure to use Loctite® Red on all bolts before tightening. Tighten all bolts according to the torque chart provided.
- Dealer or installer be certain the user receives these instruction sheet.
- 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.

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- Tools Required**

 - 10MM Socket
 - 9/16" Socket
 - Large Vise Grip
 - Flat Screwdriver
 - Utility Knife
 - Torque Wrench
 - Phillips Screwdriver
 - Tape Measure
 - Loctite® Red
 - Drill
 - 13/32" Drill Bit
 - 1-1/4" Drill Bit



Item No.	Part No.	Description	Qty.
1.....	61-4978.....	3/8"-16 Whiz Nut Weldment with 14" Wire.....	2
2.....	61-5208.....	3/8"-16 Nut Plate Weldment with 14" Wire.....	4
3.....	61-7076.....	BX3787 Baseplate.....	1
4.....	201-0368.....	3/8"-16 x 1-1/4" Hex Head Bolt, Grade 5, ZP.....	4
5.....	201-0443.....	3/8"-16 x 1" Hex Head Bolt, Grade 5, ZP.....	2
6.....	201-0655.....	6MM-1.0 x 30MM Hex Head Bolt, Grade 8.8, ZP.....	1
7.....	203-0010.....	3/8" Lock Washer, ZP.....	6
8.....	226-0046(not shown).....	Class III Safety Cables.....	2
9.....	229-0359(not shown).....	3/8" Quicklink, ZP.....	2

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. 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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1. Using a flat screwdriver, remove eleven (11) push pins from the top of the fascia. There are five (5) per side and one (1) located in the center. Remove the cover by lifting upward firmly.



2. Remove the six (6) push pins on the fascia brackets. Gently pull the grill upward slightly to access the eight (8) small tabs on the backside. Place the grill on a flat, sturdy surface.



3. Remove the three (3) push pins along the front rim using a flat screwdriver. There is one (1) per side and one (1) in the center.



4. Use a flat screwdriver to remove the two (2) push pins that are located just forward of the front tire in the wheel well. Rotate the push pins clockwise until the slot of the push pin is in the horizontal position and lift out. Do this on both sides of the vehicle.

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5. Using a Phillips screwdriver, remove the eight (8) screws located on the underside of the vehicle and unplug the running lights.



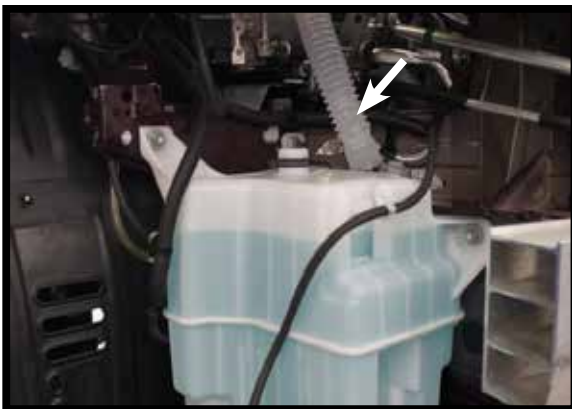
6. Firmly pull forward to remove the fascia. Lay the fascia on a flat, sturdy surface for reinstallation later.



7. Remove the black bumper foam by simply pulling it forward. This will not be reinstalled.



8. Unplug the bottom sensors. NOTE: It is recommended to mark the lines to ensure they are reconnected properly.



9. Remove the top large tube on the top of the windshield washer fluid reservoir.



10. Remove the three (3) bolts using a 10MM socket.

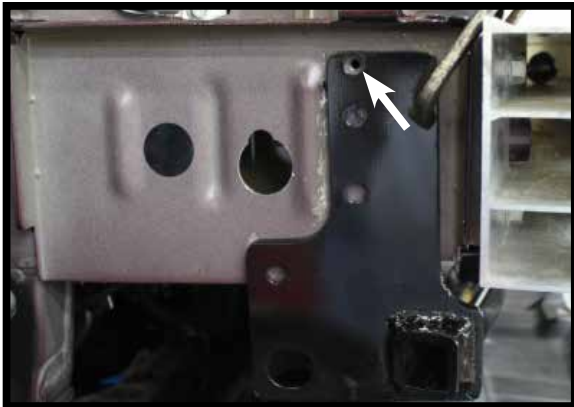
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11. Using a utility knife, notch the plastic tabs enough to remove the bottom portion.

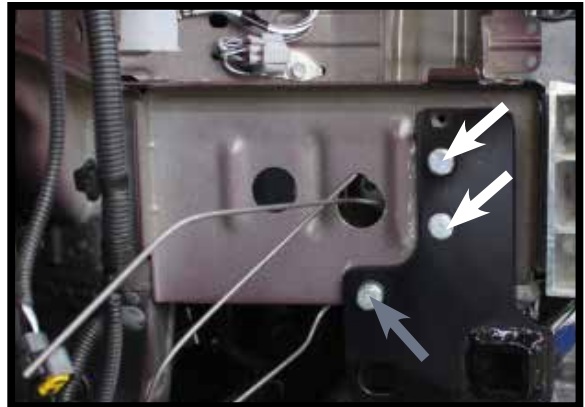


12. Outline the circle and remove the tape. Drill a hole using a 1-1/4" drill bit. Do this on both sides.



13. Securely clamp the baseplate onto the vehicle frame. Align the hole of the baseplate with the existing hole where the windshield washer reservoir fluid was attached.

Verify the baseplate is level and drill the holes on the opposite side using a 13/32" drill bit and the baseplate as a template.



14. Drill the other holes using a 13/32" drill bit. Verify that the baseplate is level.

Insert the 3/8"-16 x 1-1/4" hex head bolts, 3/8" lock washer into the top two (2) holes. Secure with a 3/8"-16 nut plate weldment.

In the bottom rearward hole, insert one (1) 3/8"-16 x 1" hex head bolt, 3/8" lock washer. Fasten securely using a 3/8"-16 whiz nut weldment.

Do this on both sides of the vehicle.

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15. Reinstall the windshield wiper fluid reservoir using the 6MM hex head bolts that were supplied. Next, reconnect the lines.

16. Attach the permanent baseplate safety cables to the provided convenience link on the baseplate. 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 on both sides of the vehicle.

17. Reinstall the front fascia and grill.

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. 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.

