



BX2409

2009-18 Dodge Ram 1500 Sport/ST/Laramie Limited Installation Instructions

Please read **BOTH** these Installation Instructions and the General Information sheet prior to installing or operating 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 and knowledge necessary to do “it 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 the hardware supplied in the hardware kit and existing hardware as specified in the installation instructions.

Attachment Tab Height: 19-1/2”

Attachment Tab Width: 33-1/2”

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

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.

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

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Instruction Notes: The lower spoiler is 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 BX8869 Tail Light Wiring Kit is recommended for 2012 models.

The BX8848 4-Diode Wiring Kit is recommended for 2013-16 models.



Drill a hole according to the tail
light wiring kit instructions.

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 a sufficient amount of Loctite® Red on all bolt threads before tightening. Tighten all bolts according to the torque chart provided.
- Dealer or installer be certain the user receives these instruction sheets.
- 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.

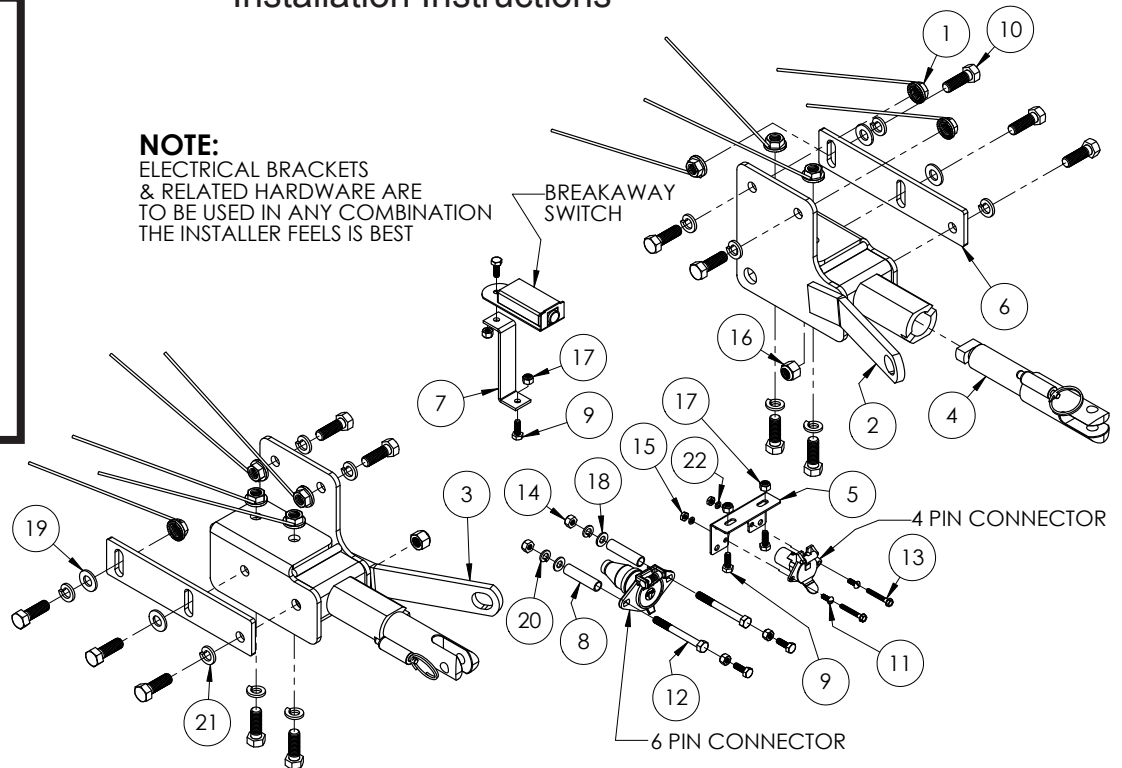
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Tools Required

Large Vise Grip
Flat Screwdriver
Utility Knife
Torque Wrench
Reciprocating Saw
Drill
Tape Measure
Loctite® RED
17/32" Drill Bit
1-1/4" Hole Saw
10MM Socket
3/4" Socket
3/4" Wrench

NOTE:
ELECTRICAL BRACKETS
& RELATED HARDWARE ARE
TO BE USED IN ANY COMBINATION
THE INSTALLER FEELS IS BEST

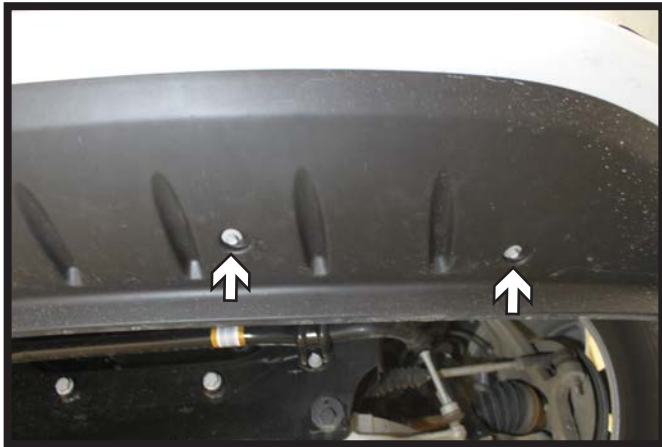


Item No.	Part No.	Description	Qty.
1	61-4029	1/2" Whiz Nut w/ 10" Wire	10
2	61-7190	BX2409 Baseplate, DS	1
3	61-7191	BX2409 Baseplate, PS	1
4	62-3469	Attachment Tab	2
5	101-6135	Electrical Bracket	1
6	102-6951	BX2409 Side Mount Plate	2
7	102-7116	Breakaway Bracket	1
8	107-3077	1/2" OD Tubing x 2"L	2
9	201-0050	1/4"-20 x 3/4" Hex Head Bolt, Grade 5, ZP	6
10	201-0051	1/2"-13 x 1-1/2" Hex Head Bolt, Grade 5, ZP	14
11	201-0192	#10-32 x 1/2" Round Slot Head Screw	2
12	201-0460	5/16"-18 x 3" Hex Head Bolt, Grade 5	2
13	201-0654	#10-16 x 1" Self Drilling Screw, ZP	2
14	202-0002	5/16"-18 Hex Nut, ZP	2
15	202-0047	#10-32 Hex Nut	2
16	202-0094	1/2"-13 Hex Nylon Lock Nut, ZP	2
17	202-0102	1/4"-20 Hex Nylon Lock Nut, ZP	6
18	203-0002	5/16" Flat Washer, ZP	2
19	203-0005	1/2" Flat Washer, ZP	4
20	203-0009	5/16" Lock Washer, ZP	2
21	203-0012	1/2" Lock Washer, ZP	12
22	203-0054	#10 Lock Washer	2
23	226-0049(not shown)	Class IV Safety Cables	2
24	229-0512(not shown)	1/2" Quicklink, ZP	2
25	290-0437(not shown)	Black Cap Plug Receiver	2

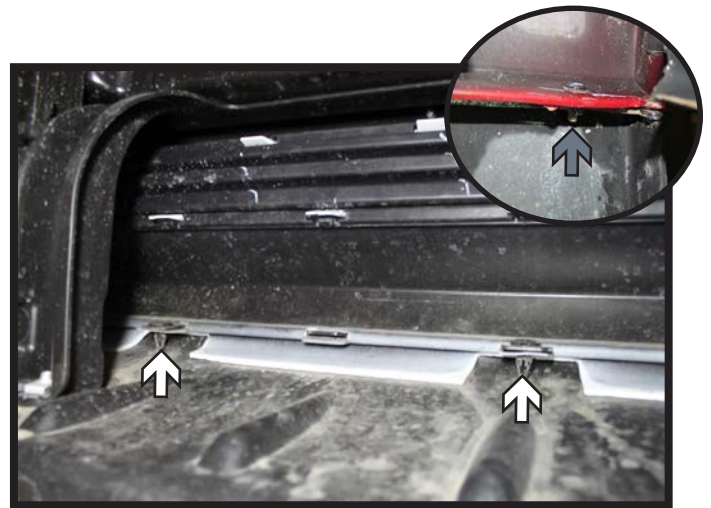
Important:

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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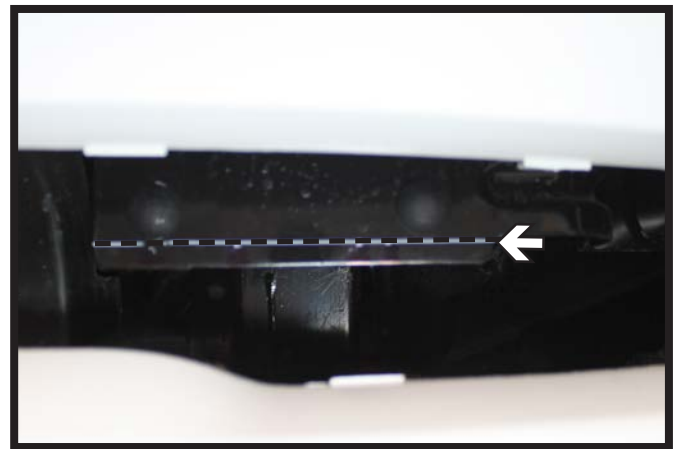
1. Using a 10MM socket, remove the four (4) screws from the front spoiler. There are two (2) on each side.



2. Remove the seven (7) push pins (white) and the two (2) plastic rivets (gray) from the inside edge of the spoiler where it meets the bumper. Set the spoiler aside.

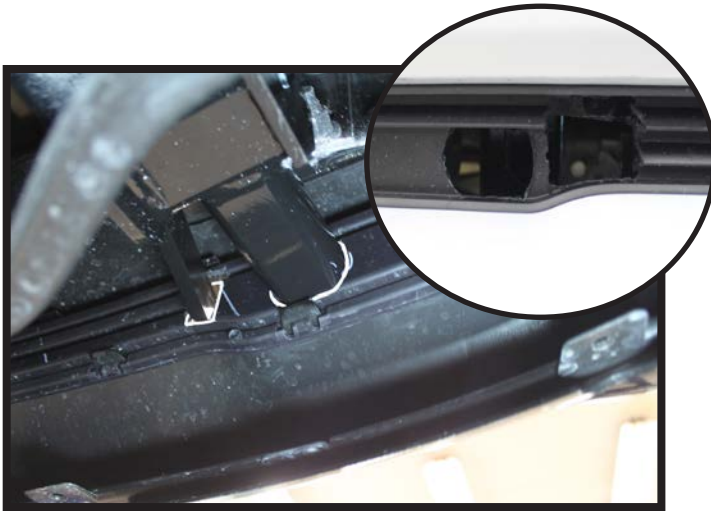


3. From inside the bumper, unclip the front cover from the bumper and set the cover aside.



4. Using a reciprocating saw, trim the tow hook plates flush with the bottom of the bolts. Do this on both sides of the vehicle.

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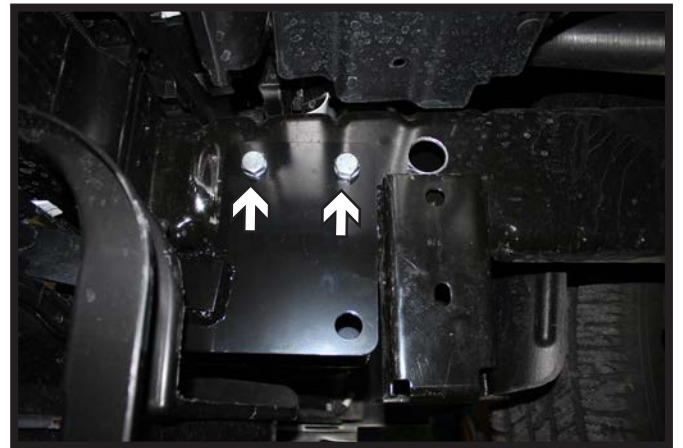
5. Temporarily reinstall the front cover. Hold the baseplate up as close to its installed position. Mark the backside of the front cover. Remove and trim the cover to allow the baseplate to pass thru. Do this on both sides of the vehicle.



6. Clamp the baseplate into position. Using a 1-1/4" hole saw, drill an access hole above the tow hook bracket on the inside of the frame. Do this on both sides of the vehicle.

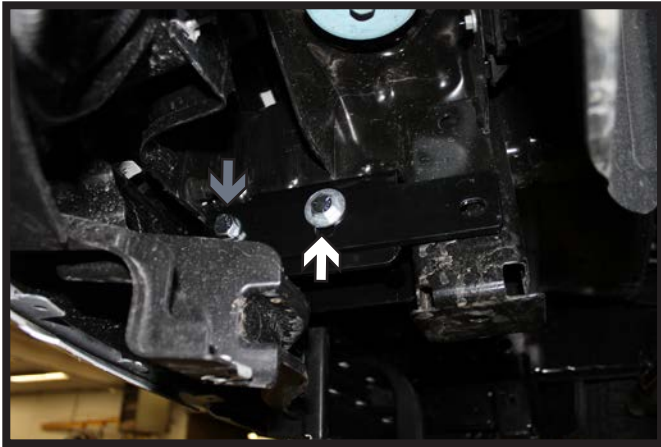


7. Using a 17/32" drill bit, drill the bottom two (2) holes of the baseplate thru the frame. Install 1/2"-13 x 1-1/2" bolts with 1/2" lock washers into the holes with 1/2" nut wires on the inside of the frame and tighten. Remove the clamps. Do this on both sides of the vehicle.



8. Using a 17/32" drill bit, drill the upper two (2) holes of the baseplate thru the frame. Install 1/2"-13 x 1-1/2" bolts with 1/2" lock washers into the holes with 1/2" nut wires on the inside of the frame and tighten. Do this on both sides of the vehicle.

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9. Bolt the side plate to the baseplate with a 1/2"-13 x 1-1/2" bolt with 1/2" lock washer and a 1/2"-13 lock nut into the front hole (gray) and a 1/2"-13 x 1-1/2" bolt with 1/2" lock and flat washers into the middle hole (white). Tighten all fasteners. Do this on both sides of the vehicle.



10. Using a 17/32" drill bit, drill the rear side plate hole thru the tow hook bracket. Install a 1/2"-13 x 1-1/2" bolt with 1/2" lock and flat washers into the hole with 1/2" nut wires on the inside of the bracket and tighten. Do this on both sides of the vehicle.



11. Attach the permanent baseplate safety cables to the provided convenience link on the baseplate. The photo beside 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 on **BOTH** sides of the vehicle.

12. Reinstall the lower spoiler. If installing a breakaway bracket or electrical connector see steps 13 and 14 prior to reinstalling the lower spoiler.

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13. The breakaway bracket can be attached to the bottom edge of the bumper using a 1/4"-20 x 3/4" bolt with a 1/4"-20 nut. Trim the front cover (not shown) as needed to allow the breakaway to pass thru and attach the breakaway to the top of the bracket with a 1/4"-20 x 3/4" bolt and a 1/4"-20 nut.



14. The electrical connection can be mounted in several locations with a combination of different hardware to suit the users need. Shown above is using the electrical bracket attached to the bottom of the license plate bracket.



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

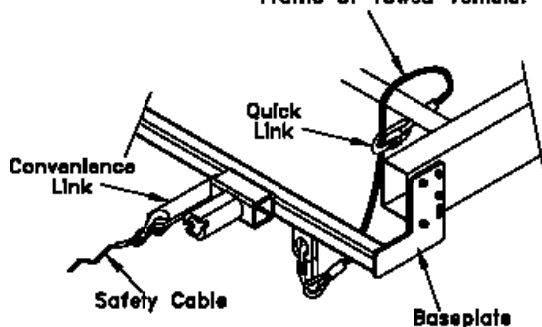
Permanent baseplate safety cables are strongly recommended when towing a vehicle with a tow bar. The principle function of the permanent baseplate safety cables is to prevent the towed vehicle from breaking loose in the event the connection between the frame of the towed vehicle and the baseplate fails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

