



BX3796
2014-16 Scion tC
2016 Scion iM
2017-18 Toyota Corolla iM
Installation Instructions

Attachment Tab Height: 13-1/2"

Attachment Tab Width: 24"

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 “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 the hardware supplied in the hardware kit and existing hardware as specified in the installation instructions.



⚠ 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 fascia, air baffle (if equipped) and windshield washer fluid reservoir 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 Wiring 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 a sufficient amount of Loctite® Red on all bolt threads before tightening. Tighten all bolts according to the torque chart provided unless specified.
- 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.

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

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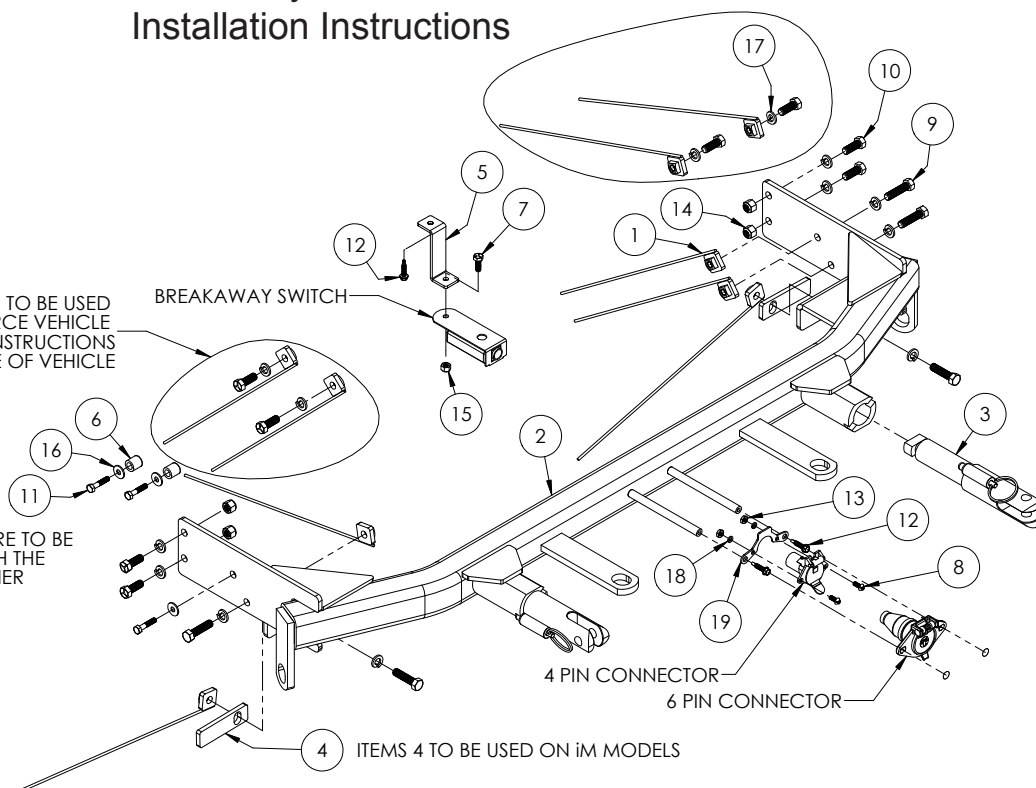
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Tools Required

Large Vise Grip
Flat Screwdriver
Torque Wrench
Drill
Loctite® RED
3/8" Drill Bit
10MM Socket
7/16" Socket
7/16" Wrench
9/16" Socket
9/16" Wrench
5/16" Nut Driver

THESE ITEMS ARE TO BE USED TO REINFORCE VEHICLE SHEET METAL SEE INSTRUCTIONS 2 SETS FOR EACH SIDE OF VEHICLE

ITEMS 6, 11 & 16 ARE TO BE USED TO REATTACH THE WINDSHIELD WASHER RESERVOIR

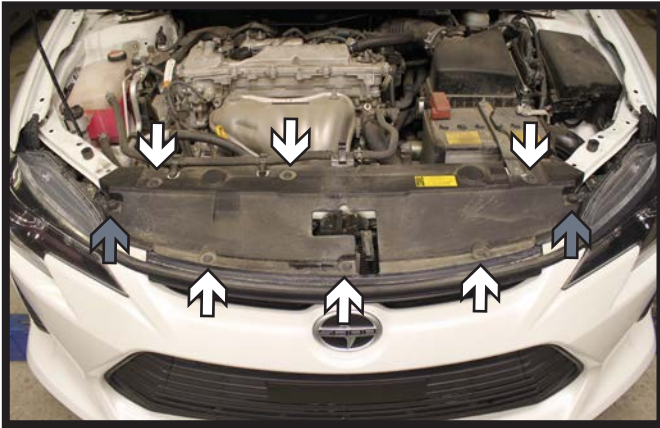


Item No.	Part No.	Description	Qty.
1.....	61-5208	3/8" Nut Plate w/ 14" Wire	9
2.....	61-7685	BX3796 Baseplate.....	1
3.....	62-3469	Attachment Tab Assembly with Hole	2
4.....	101-9252	Spacer Plate (iM models)	2
5.....	102-7168	Breakaway Bracket	1
6.....	107-2982	Spacer Tube, 5/8" Dia x 5/8"L.....	2
7.....	201-0050	1/4"-20 x 3/4" Hex Head Bolt, Grade 5, ZP	1
8.....	201-0192	#10-32 1/2" Round Slotted Head Screw.....	2
9.....	201-0440	3/8"-16 x 1-1/2" Hex Head Bolt, Grade 5, ZP	5
10.....	201-0443	3/8"-16 x 1" Hex Head Bolt, Grade 5, ZP	8
11.....	201-0655	6MM-1.0 x 30MM Hex Head Bolt, ZP.....	3
12.....	201-0979	#12-14 x 1" Self Drilling Screw, ZP.....	3
13.....	202-0047	#10-32 Hex Nut	2
14.....	202-0090	3/8"-16 Hex Nylon Insert Lock Nut, ZP.....	4
15.....	202-0102	1/4"-20 Hex Nylon Nut, ZP	1
16.....	203-0001	1/4" Flat Washer, ZP.....	3
17.....	203-0010	3/8" Lock Washer, ZP	13
18.....	203-0054	#10 Lock Washer, ZP	2
19.....	299-0685	4-Way Bracket.....	1
20.....	226-0046(not shown)	Class III Safety Cables	2
21.....	229-0359(not shown)	3/8" Quicklink, ZP	2
22.....	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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Installation Instructions
Scion tC Fascia Removal



1. Push down on to release and remove the six (6) push pins from the fascia cover (white). Then remove the two (2) bumpers (gray) and set the cover aside.



2. Using a 10MM socket, remove the two (2) screws from the topside of the fascia (white). Then remove the three (3) push pins (gray).

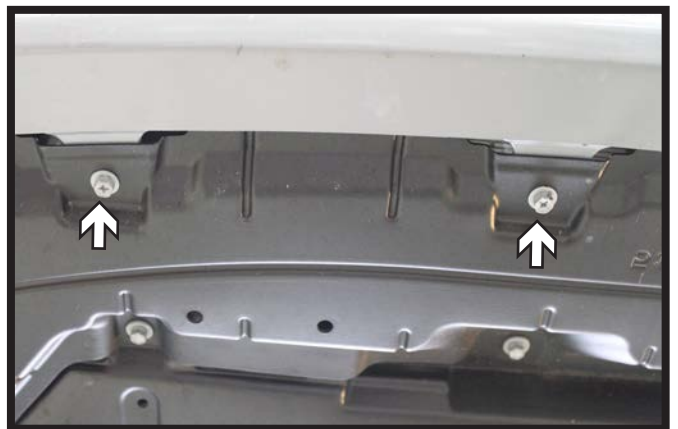


3. Using a 10MM socket, remove the screw from the edge of the wheel well (white). Then turn the locking pin (gray) to release the fascia from the wheel well liner. Do this on both sides of the vehicle.



4. Using a 10MM socket, remove the eight (8) screws from the underside of the fascia. There are two (2) on each side and four (4) along the front.

Pull the corners of the fascia away from the vehicle disconnecting any electrical connections and set the fascia aside.



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Installation Instructions
Scion iM Fascia Removal



1. Remove the two (2) push pins from the fascia (white). Then, using a 10MM socket, remove the screw from the center of the fascia (gray).



2. Remove the push pin from the edge of the wheel well (white). Then turn the locking pin (gray) to release the fascia from the wheel well liner. Do this on both sides of the vehicle.



3. Using a 10MM socket, remove the six (6) screws from the underside of the fascia. There are two (2) on each side and four (4) along the front.

Pull the corners of the fascia away from the vehicle disconnecting any electrical connections and set the fascia aside.

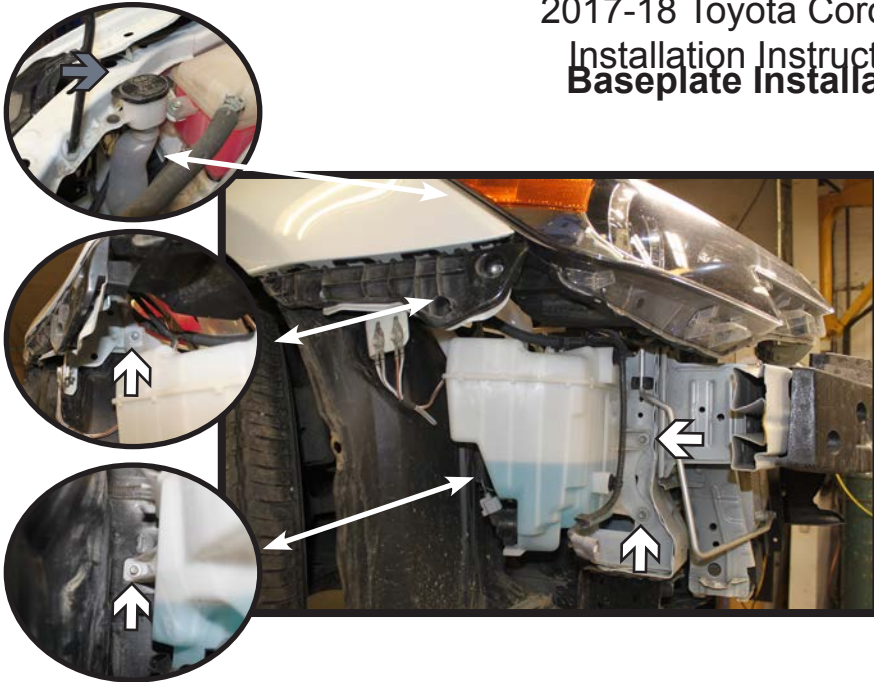


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Installation Instructions Baseplate Installation



1. Using a 10MM socket, remove the four (4) screws from the washer reservoir (white). Remove the push pin from the reservoir neck (gray). Disconnect/plug all lines and set the reservoir aside.



2. **tC models only:** On the driver side, remove the plastic reinforcement and set aside. The reinforcement will not be reinstalled.



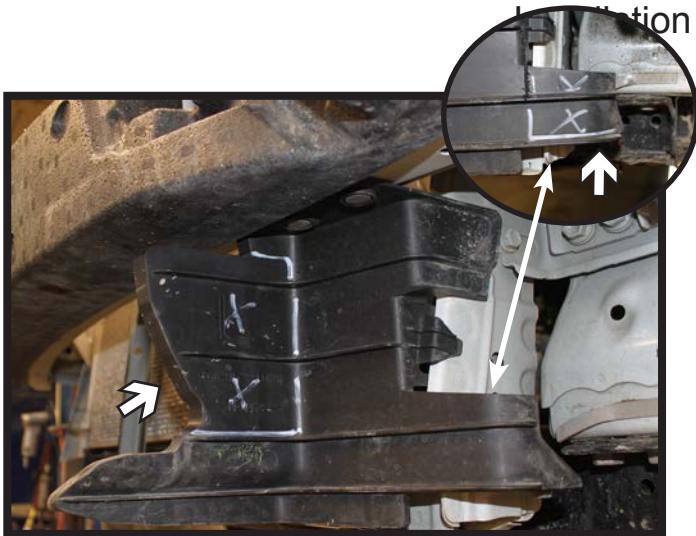
2. **iM models only:** On the driver side, using a 10MM socket, remove the three (3) screws from the baffle. There is one (1) in front under the headlight and two (2) just in front of the wheel well liner (insets). Set the baffle aside.

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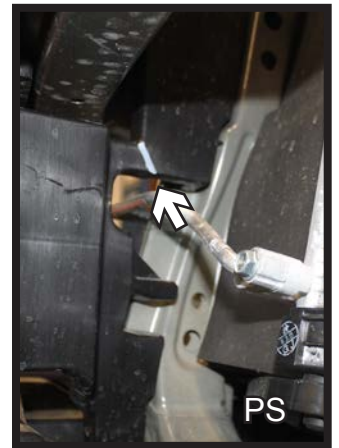
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3. **tC models only:** On the driver side, trim the plastic shielding under the bumper and towards the outer edge as shown for baseplate clearance.



3. **iM models only:** Trim the plastic shielding under the bumper and remove the lower section.



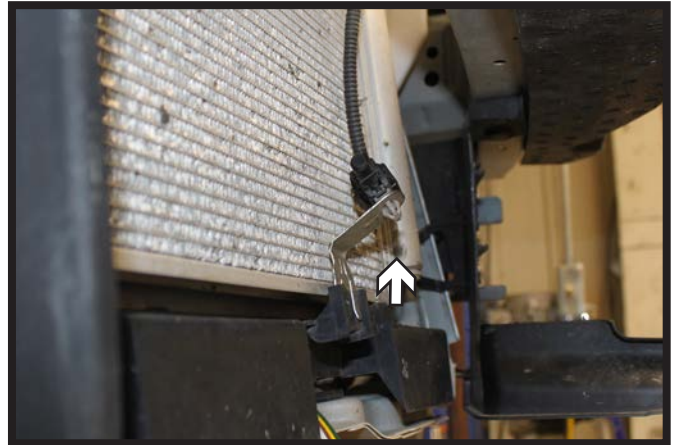
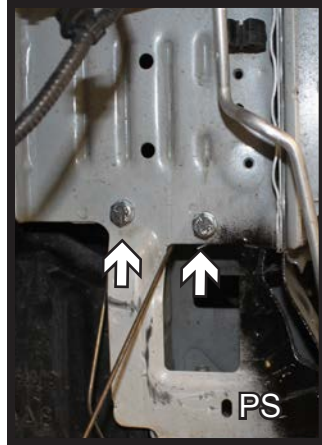
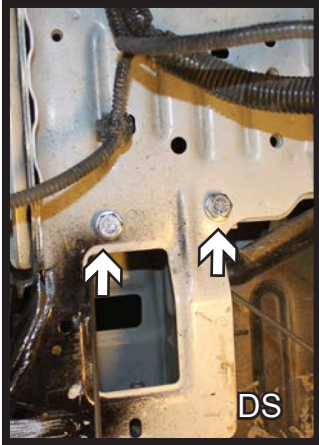
4. From the bottom of the frame face, measure up 1" & 4-1/2" by 3/4" deep. Using a reciprocating saw, trim a notch in the frame face. Do this to both sides of the vehicle.

 **Caution:** Be aware of the AC condenser lines on the passenger when cutting.



5. **tC models only:** On the driver side, remove the plastic cover along the side of the frame.

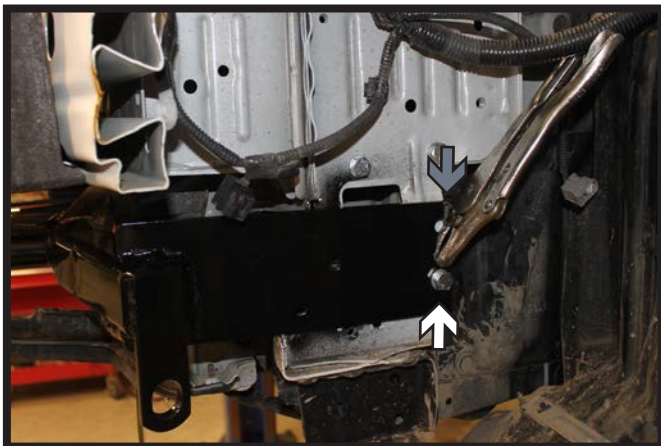
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6. Prior to baseplate installation, using a 3/8" drill bit, drill holes in the approximate locations shown on both the driver and passenger sides. Install the 3/8" hardware into the holes and fully tighten all hardware. These bolts will reinforce the frame from delaminating.

7. If needed bend the temperature sensor up slightly to allow easier baseplate installation.

** Use Loctite® Red on all bolt threads and tighten all bolts to the appropriate torque.




8. Install the baseplate onto the frame, flushing the edge of the sideplate with the frame (gray) and clamp in position. Using a 3/8" drill bit, drill the lower back hole (white) thru the frame. Install the 3/8" hardware into the hole. Do this on both sides of the vehicle. Fully tighten all hardware.

** Use Loctite® Red on all bolt threads and tighten all bolts to the appropriate torque.



9. Using a 3/8" drill bit, drill the front hole thru the frame. Install the 3/8" hardware into the hole. Do this on both sides of the vehicle. Fully tighten all hardware.

Note: On iM models there will be a spacer plate that goes in between the baseplate and frame prior to bolting.

 **Caution:** Be aware of the AC condenser lines on the passenger side when drilling.

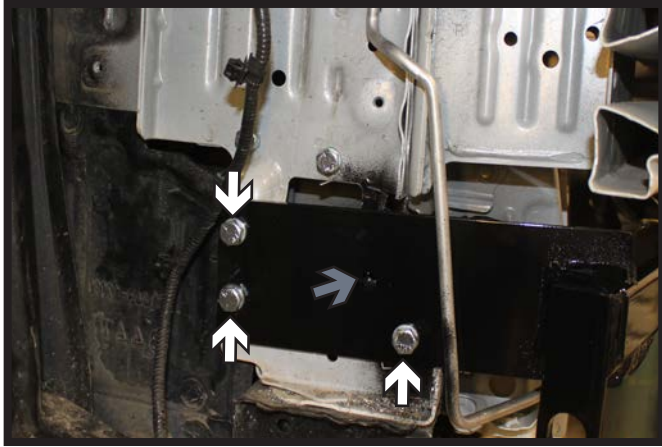
** Use Loctite® Red on all bolt threads and tighten all bolts to the appropriate torque.

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10. Using a 3/8" drill bit, drill the remaining holes in the sideplates thru the frame. Install the 3/8" hardware into the holes. Do this on both sides of the vehicle. Fully tighten all hardware.

Note: **DO NOT** drill the upper front hole on the passenger side (gray) as the factory hole will be used for the reservoir reinstallation.

** Use Loctite® Red on all bolt threads and tighten all bolts to the appropriate torque.

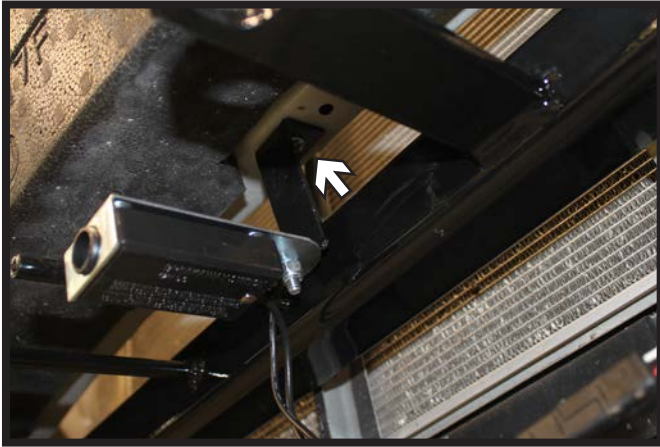


11. Attach the permanent baseplate safety cables to the provided convenience link on the baseplate. The photo above shows the recommended installation of the cables to frame of vehicle. Additional options may interfere with suggested mounting; in this case, secure the cables to a solid piece of the frame as described in the General Information sheet. 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 washer reservoir with the spacers, 6MM & 1/4" hardware provided.
Note: The upper back bolt will not be reinstalled due to the use of the spacers
iM models only: Reinstall the baffle on the driver side.

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13. **Optional Breakaway:** Attach the bracket to the lip of the bumper at the desired location with the #12 screw provided. Attach the breakaway to the bracket with the 1/4" hardware provided.



14. Hold the fascia as close to its original position, mark and trim the fascia around the convenience links and attachment tabs. Reinstall the fascia and fascia cover.



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

(Baseplates with Convenience Link Tabs)



Option #2

(Baseplates with out Convenience Link Tabs)

