



BX3768

2007-14 Toyota FJ Cruiser Installation Instructions

Attachment Tab Height: 24-3/4"

Attachment Tab Width: 21"

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 "it work".
- 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



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

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



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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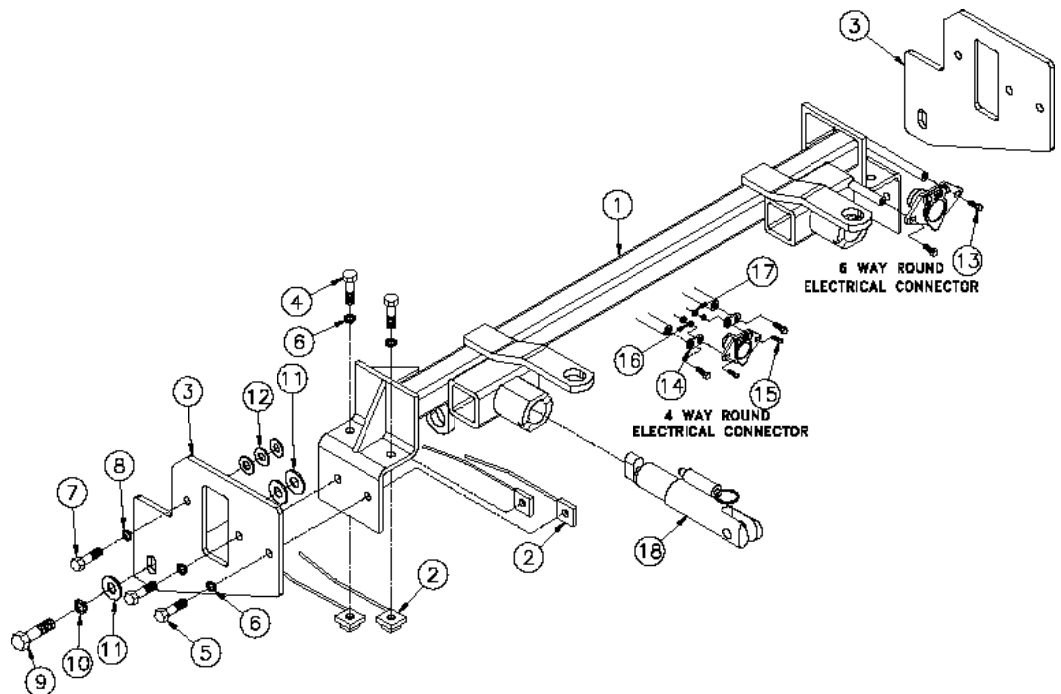
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Parts List

Ref. No.	Qty.	Part #	Description
1	1	61-6271	Weldment, Baseplate, BX3768
2	8	61-5208	3/8" Nut Plate, with Wire
3	2	101-6956	Support Plate, BX3758
4	4	201-0368	3/8-16 x 1 1/4" Bolt, Grd. 5, ZP
5	4	201-0440	3/8-16 x 1 1/2" Bolt, Grd. 5, ZP
6	8	203-0010	3/8" Lock Washer
7	2	201-0446	8mm-1.25 x 30mm, Hex Bolt, Grd. 8.8, ZP
8	2	203-0102	8mm Lock Washer, ZP
9	2	201-0603	12mm-1.25 x 45mm, Hex Bolt, Grd. 8.8, ZP
10	2	203-0105	12mm Lock Washer
11	6	203-0005	1/2" Flat Washer
12	6	203-0003	3/8" Flat Washer
13	2	201-0979	#12-14 x 1" Self Drilling Screw, ZP
14	2	101-5822	Adapter, 4-Way Connector
15	2	201-0192	#10-32 x 1/2" Slot, Rd. Hd. Screw
16	2	203-0054	#10 Lock Washer
17	2	202-0047	#10-32 Hex Nut
18	2	62-3468	Attachment, Assembly, SF/LB (R)
19	2	290-0437	Receiver Cap, Plug (Not Shown)
20	2	226-0049	Permanent Baseplate Safety Cable (Not Shown)
21	2	229-0512	1/2" Quick Link (Not Shown)

Tools Required

- Loctite® RED
- 10mm Socket
- 12mm Socket
- 14mm Socket
- 18mm Socket
- 9/16" Socket
- Phillips Screwdriver
- 13/32" Drill Bit
- 1 1/4" Hole Saw
- Utility Knife



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.



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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 RangeFinderII and Ambassador tow bars can not be used. Adapters, except the BX8833 and BX88151, can not be used with this baseplate.

Installation Notes: The fascia support crossbar, grille, belly pan, metal bumper and fascia are removed for installation. Drilling is required. The grille must be trimmed.

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. The BX8848 Diode Wiring Kit is recommended if the vehicle has LED lights.



Preferred location for the BX8869 Bulb and Socket Wiring Kit.

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

Installation Instructions:



1. Using the 12MM socket, remove six metric bolts from the belly pan. Set belly pan and bolts aside to be reinstalled later.



2. Using a 10MM socket or Phillips screwdriver, remove the hex bolt from the grille support bracket (see white arrow). Remove the pushpin from the upper, outside edge of grille assembly (see grey arrow). Do this to both sides of the vehicle. Set bolts and push pins aside to be reinstalled later.



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3. Just forward of the radiator, on the outside edge of the headlight assembly, press the tab in (see white arrow) and pull the grille slightly forward to release the upper clip. Do this to both sides of the vehicle. Pull grille forward to release the three lower grille clips. Set grille aside to be reinstalled later.



4. Remove three push pins just behind the top edge of the bumper. Set push pins aside to be reinstalled later.



5. Using the 10MM socket, remove two metric bolts from the outside edge of wheel well, just forward of the front tire. Do this to both sides of the vehicle. Set bolts aside to be reinstalled later.



6. Using the 10MM socket, remove three metric bolts from the bottom corner of fascia, just forward of the front tire. Do this to both sides of the vehicle. Set bolts aside to be reinstalled later.



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7. Using the 10MM socket, remove two metric bolts from the bottom edge of the fascia, just forward of the radiator. Set bolts aside to be reinstalled later.



8. Grasp the top edge of the fascia's corner, just forward of the front tire and carefully push the fascia's corner towards the front tire, then pull to the side to release fascia. Do this to both sides of the vehicle. Pull fascia forward to remove. Set fascia aside carefully to be reinstalled later.



9. Using the 14MM socket, remove two metric bolts from the metal bumper. Do this to both sides of the vehicle. Pull metal bumper forward to remove. Set bolts and bumper aside to be reinstalled later.

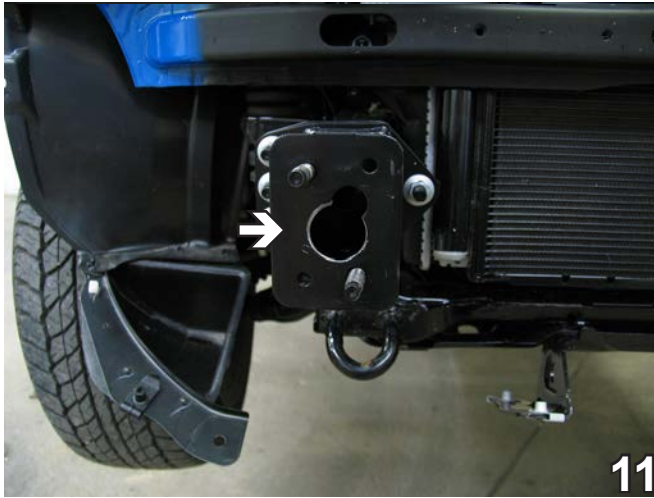


10. Using the 10MM socket, remove three bolts from the fascia support crossbar. Pull the crossbar forward to remove. Set bolts and crossbar aside to be reinstalled later.

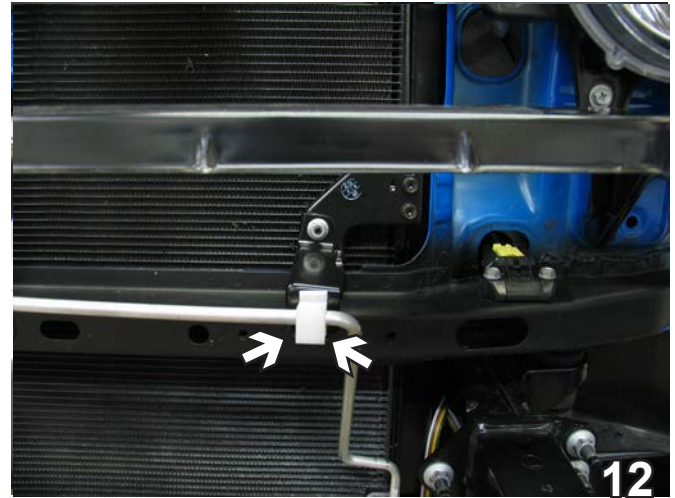


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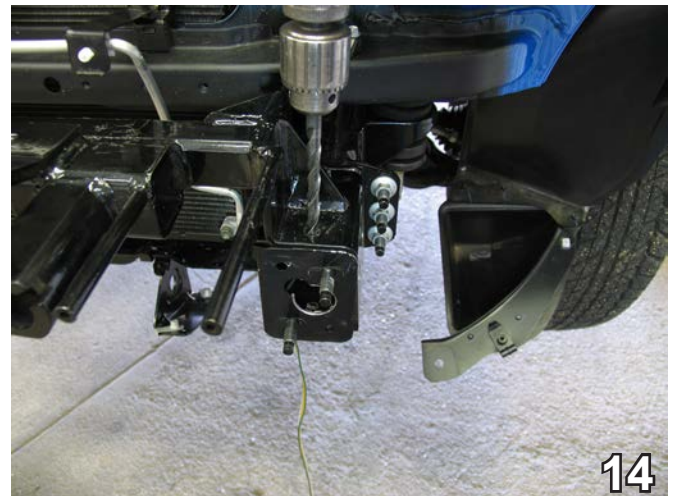
11. Using the 1 1/4" hole saw, drill out the center of the frame rail end plate. *Note: The cut should overlap the existing hole.* Do this to both sides of the vehicle.



12. On the driver's side, squeeze the back side of the plastic retainer clip holding the coolant tubing. Pull retainer clip forward to release the coolant tubing from the bracket.



13. Slide the coolant tube behind the bracket. Rotate the retainer clip and insert into the back side of original bracket location to open the area for baseplate installation.



14. With the baseplate on top of the frame rail extension, use the baseplate as a template to drill two holes in the top of the extension with the 13/32" drill bit. Insert 3/8" nut plates into frame rail extension and align with drilled holes. Install 3/8-16 x 1 1/4" bolts and 3/8" lock washers to the baseplate and tighten to nut plates using the 9/16" socket. Trim nut plate wires. Do this to both sides of the vehicle.

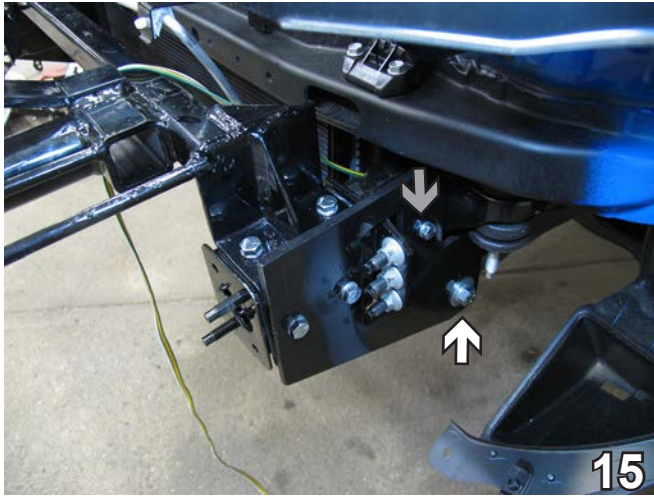
BE SURE TO USE LOCTITE® RED ON ALL BOLTS BEFORE TIGHTENING. TIGHTEN ALL BOLTS ACCORDING TO THE TORQUE CHART ON THE FRONT PAGE OF THESE INSTRUCTIONS OR ON PAGE 3 OF THE BASEPLATE TOWING GENERAL INSTRUCTIONS.

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

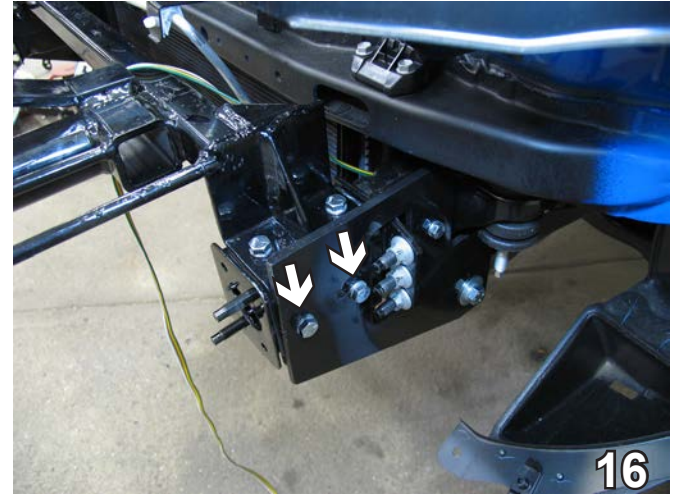


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15. Align the support plate to the frame rail and baseplate so that the opening in the support plate is around the three frame extension bolts and the support plate slotted hole is aligned with the lower rear existing frame hole. Insert a 12MM - 1.25 x 45MM hex bolt, 12MM lock washer, and 1/2" flat washer into the slot (see white arrow). In the hole above the slot, insert a 8MM-1.25 x 30MM hex bolt, 8MM lock washer, and three 1/2" lock washers (see grey arrow). Finger-tighten only. Do this to both sides of the vehicle.



16. Align the front two holes of the support plate with the holes in the baseplate endplate. Using the support plate and baseplate end plates as templates, drill two holes in the frame extensions. Insert the 3/8" nut plates into the frame rail extension and align with the drilled holes. Install 3/8-16 x 1 1/2" bolts and 3/8" lock washers to the support plate and tighten to nut plates using the 9/16" socket. Trim the nut plate wires. Tighten the two rear bolts on the support plates using the 18MM socket for the lower bolt and the 13MM socket for the upper bolt.



17. Reinstall the belly pan, grille, metal bumper, and fascia support crossbar. Hold the fascia up to its original location. Mark and trim the grille with the utility knife as necessary for the attachment tabs, convenience links, and electrical rods. Reinstall the fascia.

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.

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



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18. Attach the permanent baseplate safety cables to the provided convenience link on the baseplate (see grey arrow). The photo above shows the recommended installation of the cables to frame of vehicle (see white arrow). 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 to both sides of the vehicle.

DEALER or INSTALLER:

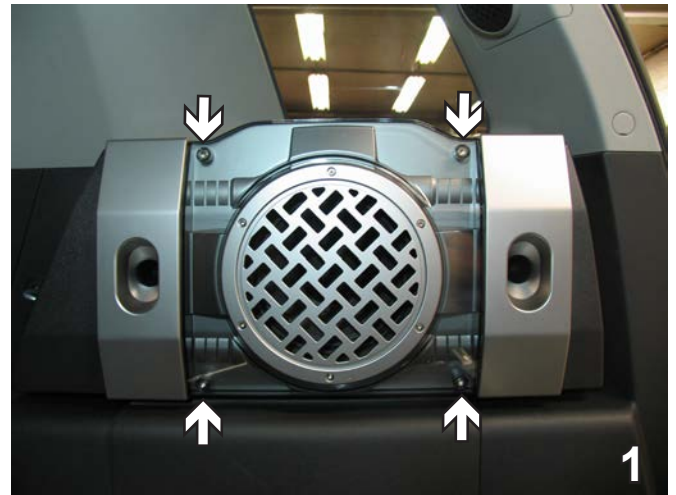
Be certain the user receives the instruction sheets for their products.

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.

Instructions for Optional BX8869 Bulb and Socket Wiring Kit

These instructions show how to gain access to the passenger's side tail light for vehicle's equipped with an optional subwoofer. Follow the instructions included with the BX8869 Bulb and Socket Wiring Kit to complete installation.



1. Use a 3/16" Allen wrench to remove four screws from the sub-woofer panel in the rear cargo area. Pull the panel forward to remove. Set panel aside to be reinstalled later.



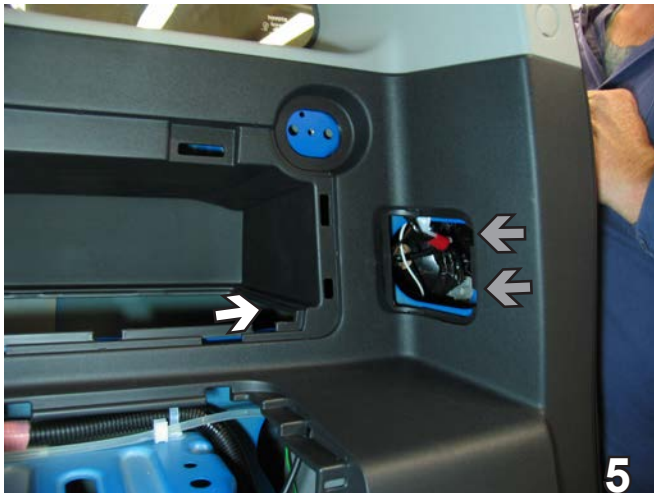
2. Use a flat screwdriver to pry upward on the panel below subwoofer to remove it. Or, pull forward on upper part of panel. Photo shows panel removed.



3. Disconnect the electrical connection (see white arrow). Remove two Phillips screws (see grey arrows). Set screws aside to be reinstalled later.



4. Remove one Phillips screw from each of the upper corners of the subwoofer case. Remove the subwoofer. Set screws and subwoofer aside to be reinstalled later.

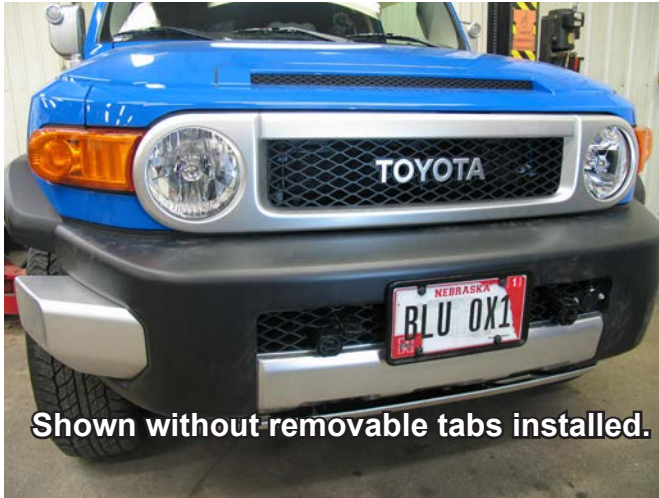


5. Using a flat screwdriver, pry off the taillight panel. In the subwoofer recess, (see white arrow) angle a 10MM deep socket upward to reach two metric bolts in taillight area (see grey arrows). Use a 10MM wrench on the other side of the metric bolts to remove them. Set all aside to be reinstalled later.

The passenger's side tail light can now be accessed. Continue installation by following the instructions included with the BX8869 Bulb and Socket Wiring Kit.



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Shown without removable tabs installed.



Shown with 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.

