

# INSTALLATION MANUAL

# 70117

## Level of Difficulty

Difficult

Installation difficulty levels are based on time and effort involved and may vary depending on the installer level of expertise, condition of the vehicle and proper tools and equipment.

## Installed Attachment Tabs

Height	17-1/2"
Width	24"

## Parts List

Item	Qty	Description
1	1	Tow bar base plate
2	2	Spacer plate
3	2	Tow bar mounting tab
4	2	Safety cable, 7,500 lbs.
5	12	Hex bolt, 3/8"-16 x 1-3/4", grade 8
6	12	Conical washer, 3/8"
7	12	Nylock nut, 3/8"-16, grade 8
8	1	Cable tie, 8"
9	2	Quick link, 1/2"
10	2	Socket plug

## Tools Required

Torque wrench	Drill
Socket, 7/16"	Drill bit, 3/8"
Socket, 9/16"	Torx bit, T15
Socket, 7mm	Torx bit, T25
Wrench, 7/16"	Nut driver, 5/16"
Wrench, 9/16"	Large vise grip
Utility knife	Flat head screwdriver
Reciprocating saw	Tape measure
Paint pen	Tin snips
Fishwire, 3/8" (includes three)	Clamps

## ⚠ WARNING

Never exceed the vehicle manufacturer's recommended gross vehicle weight rating (GVWR).

## Product Photo



Not pictured: Safety cables, quick links and socket plugs

## ⚠ CAUTION

Take care when cutting any plastic or metal as injury may occur if done improperly.

## NOTICE

Visit [www.curtmfg.com](http://www.curtmfg.com) for a full-color copy of this instruction manual, as well as helpful videos, guides and much more!

Before you begin installation, read all instructions thoroughly.

Proper tools will improve the quality of installation and reduce the time required.

This installation requires the front fascia panel to be temporarily removed and reinstalled. Some drilling and trimming are also required.

To help prevent damage to the product or vehicle, refer to the specified torque specifications when securing hardware during the installation process.

If equipped, we recommend removing the base plate attachment tabs when not in use.

## SAFETY INSTRUCTIONS

Safety glasses should be worn at all times while installing this product.

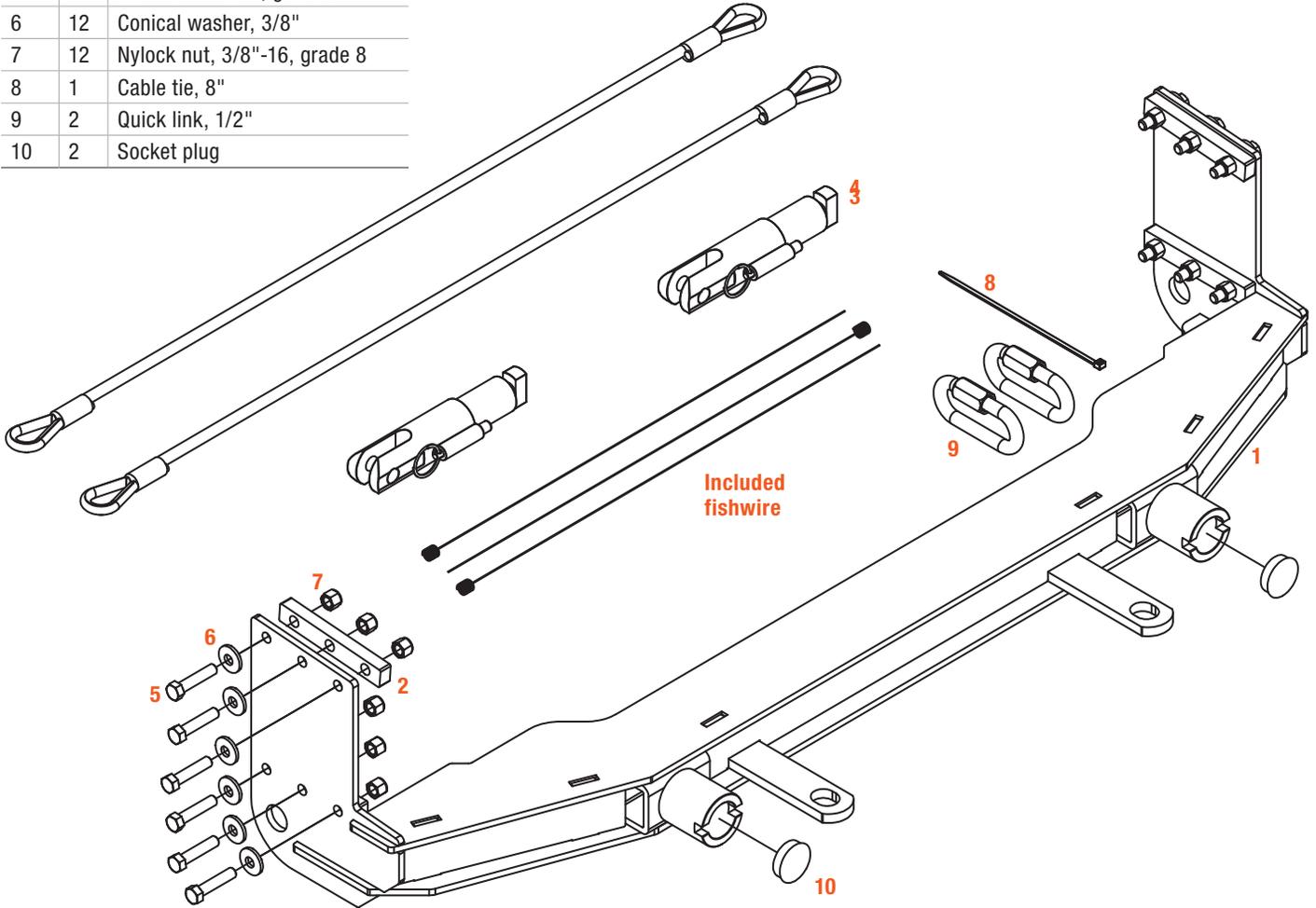
## Product Registration and Warranty

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# ASSEMBLY

## Parts List

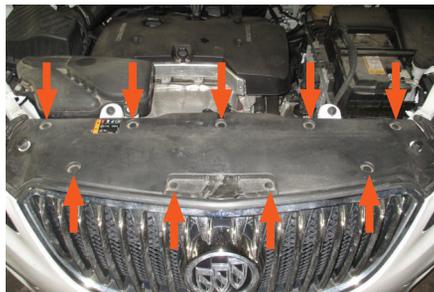
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# FASCIA REMOVAL

## Step 1

Open the hood and remove the nine push pins from the top fascia cover. Remove the cover and set it aside.



## Step 2

Use a T15 Torx bit to remove the six bolts along the top edge of the front fascia – three on each side.



## Step 3

Use a T15 Torx bit to remove the four bolts along the inside edge of the wheel well liner.

Repeat on the other side of the vehicle.



## Step 4

Pull back the wheel well liner and use a 7mm socket to remove the bolt in the bumper fascia joint.

Next, release the clips in the fender flare using a socket as shown, and pull the fender straight up to release it.

Repeat on the other side of the vehicle.



### Step 5

Use a 7mm socket to remove the ten bolts in the underbody fascia panel – five on each side.



### Step 6

Remove the fascia by carefully pulling the corners away from the vehicle. Be sure to unplug the wiring harness on the passenger side. Set the fascia aside.



### Step 7

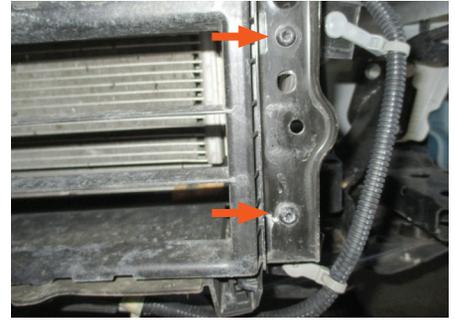
Remove the eight push pins from the plastic air intake housing around the radiator– four along the top, two on the bottom and two on each side.

Remove the housing and set it aside. It will not be reinstalled.



### Step 8

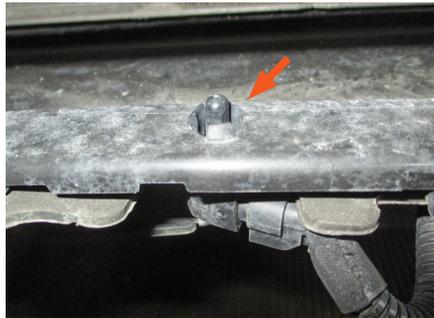
Use a T25 Torx bit to remove the four bolts from the lower grille. Remove the grille and set it aside. It will not be reinstalled.



### Step 9

Unclip the temperature sensor and let it hang from the wiring harness.

It will be relocated in a later step.



### Step 10

Use a paint pen to mark a line on the air intake mounting brackets flush with the bottom edge of the bumper. Then, use a metal-cutting tool (reciprocating saw or cutoff wheel) to cut off the marked area.

Repeat on the other side of the vehicle.



### Step 11

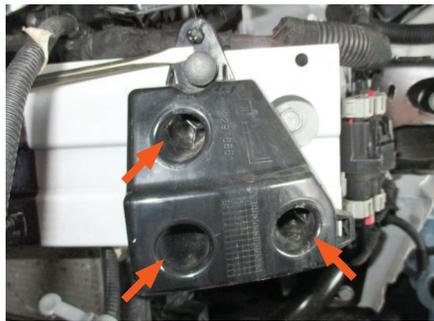
Use a paint pen to mark the plastic shielding in front of the radiator on the sides as shown. If vehicle is equipped with an intercooler in this area, trim the plastic shielding as needed. Use a tin snips to trim off the marked areas and repeat on the other side.



### Step 12

Remove the plastic bracket on each side of the bumper by pulling out the push pins.

Set the brackets aside.  
They will not be reinstalled.



### Step 13

Use a metal-cutting tool to trim off the upper center mounting tabs for the plastic air intake of the intercooler as needed. The areas should be flush with the frame. Be careful not to damage the intercooler or cut too far into the plastic inlets.

# TOW BAR BASE PLATE INSTALLATION

## Step 14

Clear the frame on the driver side of any electrical attachments.

Position the tow bar base plate (#1) on the vehicle so it is flush with the top and front edges of the frame. Making sure the base plate is level, clamp it into place.



## Step 15

Using the bottom holes in one of the side plates as a guide, drill 3/8" holes in the vehicle frame. Then, install the 3/8" hardware (#5,#6,#7).

Repeat on the other side of the vehicle, and torque all hardware to 37 lb-ft.



## Step 16

Drill the remaining holes in the side plate. Then, slide in the spacer plate (#2) and install the 3/8" hardware (#5,#6,#7).

Torque all hardware to 37 lb-ft. Repeat on the other side of the vehicle.

Reconnect the wiring removed in Step 14.



## Step 17

Install the permanent safety cables (#4) and quick links (#9), looping them around the vehicle frame and linking them to the tow bar base plate (#1). There must be one cable on each side of the vehicle.

Make sure the cables do not pinch or interfere with any hoses, wiring or other components.

See 'Installing the Permanent Base Plate Safety Cables' for additional information.



### Step 18

Use the included cable tie (#8) to reattach the temperature sensor to the plastic loop below the radiator on the driver-side of the vehicle.



### Step 19

On the back side of the front fascia, trim off the lower tabs.

Repeat on the other side.

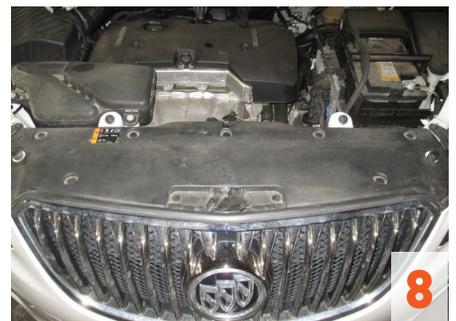
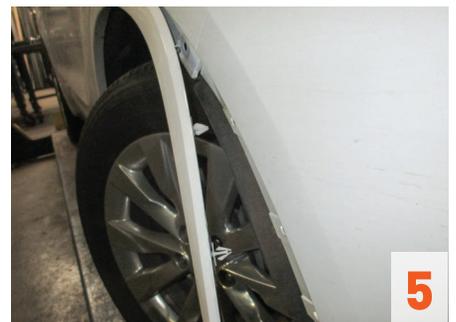


### Step 20

Hold up the front fascia in its original position and mark where it will need to be trimmed to make space for the safety cable loops and attachment tabs. Trim off the marked areas.

Reinstall the fascia and fascia cover, making sure to reconnect the electrical harnesses.

When ready to tow, install the tow bar mounting tabs (#3). When not towing, insert the socket plugs (#10) into the ends of the tow bar base plate (#1).



## Final Installed Image



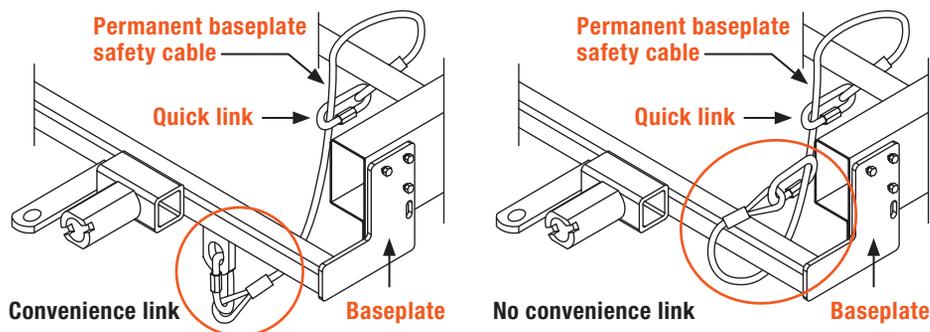
# SAFETY CABLE INSTALLATION

## Installing the Permanent Base Plate Safety Cables

When dinghy towing a vehicle with a tow bar, base plate safety cables should be used at all times. In the event of a disconnect, the safety cables are designed to help prevent complete vehicle separation. When installing the safety cables, use the illustrations below as a guide.

### Installation guidelines

1. The cables must be connected to the base plate and the vehicle frame.
2. Two cables must be installed.
3. Each cable must meet or exceed the gross weight of the towed vehicle.
4. Make sure cables do not pinch or interfere with hoses, wiring or other components.



**Note:** Base plate safety cables are not a replacement for safety chains connecting the tow vehicle to the towed vehicle.

# ADDITIONAL INFORMATION

## Towing Tips

### Check your equipment

Periodically check the condition of all towing equipment. Ensure all fasteners are tight and that all structural components are sound. Do not tow with worn or damaged parts.

### Vehicle manufacturer's recommendations

Review the owner's manual for your towed vehicle and towing vehicle for specific recommendations, capacities and requirements.