



Truck and Jeep Accessories

841 S 71<sup>st</sup> Ave · Phoenix AZ 85043  
800-595-7659 · 623-907-0081



### KIT 4003106

Dodge Ram 1500 4WD

4" Tactical Lift Kit

## Installation Instructions

3. Verify all parts have been received in this kit by comparing with this parts list:

- 2 Strut Spacer
- 16 Lift Block (3" x 2" Round)
- 4 Bed Block (2" x 2" x 2" Square)
- 2 Bracket (Front Bumper, C-shaped)
- 2 Bracket (Front Bumper)
- 2 Bracket (Rear Bumper)
- 1 Bracket (Rear Bumper, Center)
- 1 Bracket (Winch)
- 1 Bolt Pack
- 1 Hardware Pack
- 1 Bag Kit
- 3 Thread Lock
- Decal/Warning Labels

**DO NOT INSTALL THIS KIT ON ANY VEHICLE OTHER THAN THE ONE FOR WHICH IT IS SPECIFIED.**

If anytime during the installation you encounter something different from what is outlined in the instructions, call technical support at (800) 595-7659.

#### IMPORTANT

If parts are missing from kit, please be prepared to provide the following information:

1. **Name** of purchase location
2. **Bar Code** on side of box
3. **Date** above bar code
4. **Date** inside box cover
5. **Inspector #** from inside box cover

#### NOTE

Kit parts are prefaced by the word kit and appear in **bold** print.

### PRE-INSTALLATION PREPARATION

1. Read all warnings and instructions

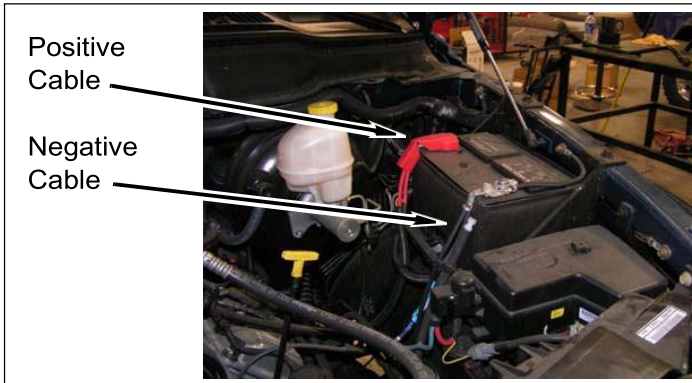
2. Locate tools needed:

- Welder or access to a professional welding shop.
- Die grinder, cut off wheel, Sawzall, or similar tool capable of cutting metal and plastic.
- Drill with 1/2" drill bit

4. Park vehicle on a clean, dry, flat, level surface and block tires so vehicle cannot roll in either direction.

## 5. Engine Compartment

1. Disconnect both battery cables. Disconnect negative cable first, then positive cable.

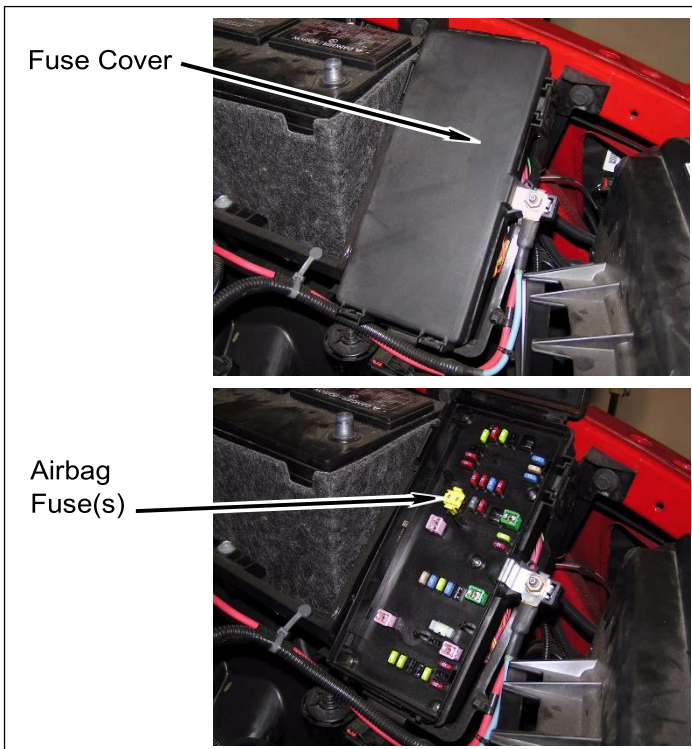


### 2. Airbag Fuse

#### NOTE

The location of the airbag fuse may vary; check the vehicle owner's manual.

- a. Remove fuse cover.
- b. Remove airbag fuse.



# Prepare to Install Kit

## Measurements

1. Measure and record distance between front bumper and fenders.

Driver Side \_\_\_\_\_ Passenger Side \_\_\_\_\_

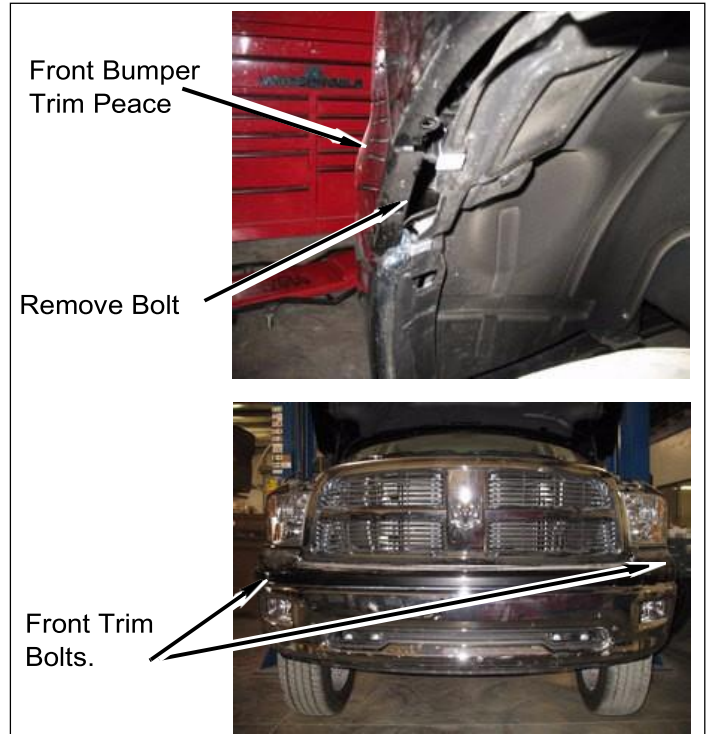
2. Measure and record distance between rear bumper and bed

Driver Side \_\_\_\_\_ Passenger Side \_\_\_\_\_

3. Measure and record distance between cab and bed.

Driver Side \_\_\_\_\_ Passenger Side \_\_\_\_\_

- c. Remove bumper trim by removing one bolt at each corner(Under inner fender cover). Slide cover forward to remove.



- d. Remove grill support by removing two bolts from each side.

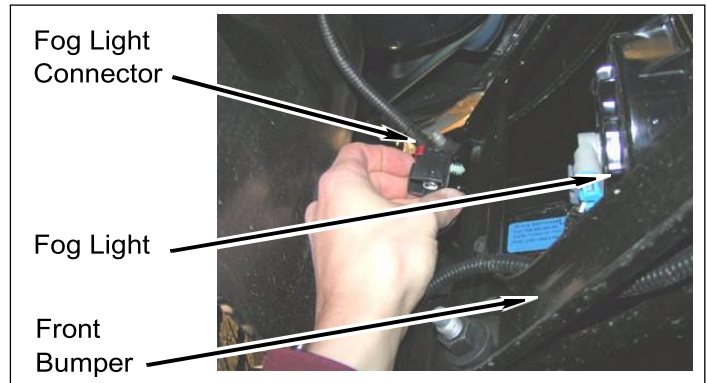
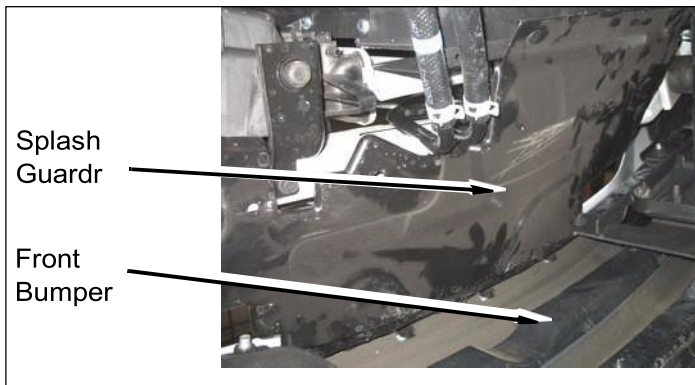
- e. Disconnect fog light harness at driver side of front bumper and pull connector off of front bumper, if equipped.

## Front of Vehicle

1. Front bumper

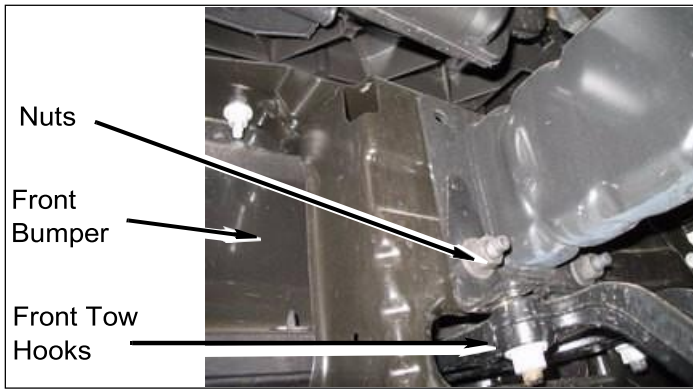
- a. Remove front grill by removing four bolts from top, then pulling grill out.

- b. Remove push clips and lower splash guard from bumper, core support, and fan shroud.

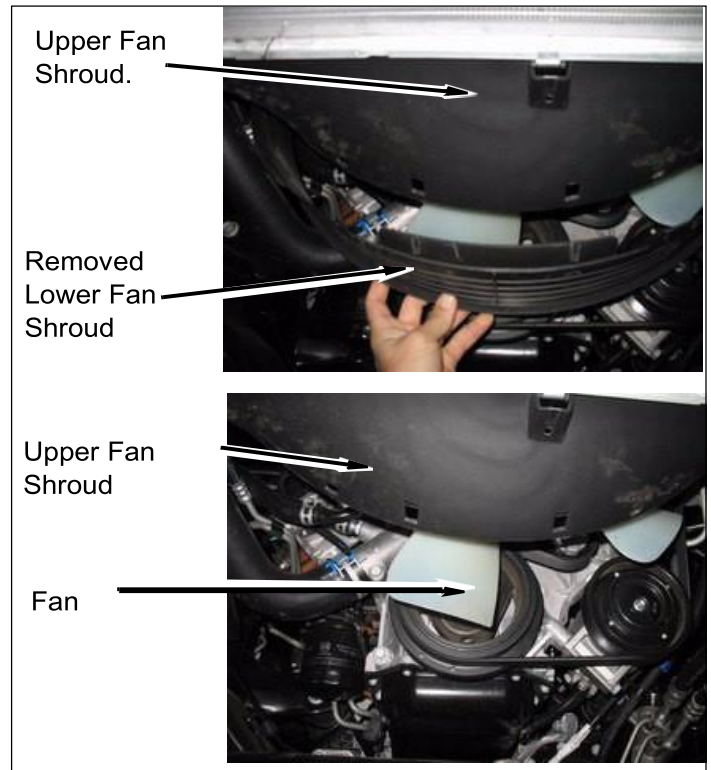


- f. Remove three bolts for drivers side factory tow hook and remove tow hook. Repeat to passenger side

- g. Remove six nuts and front bumper from frame horns .



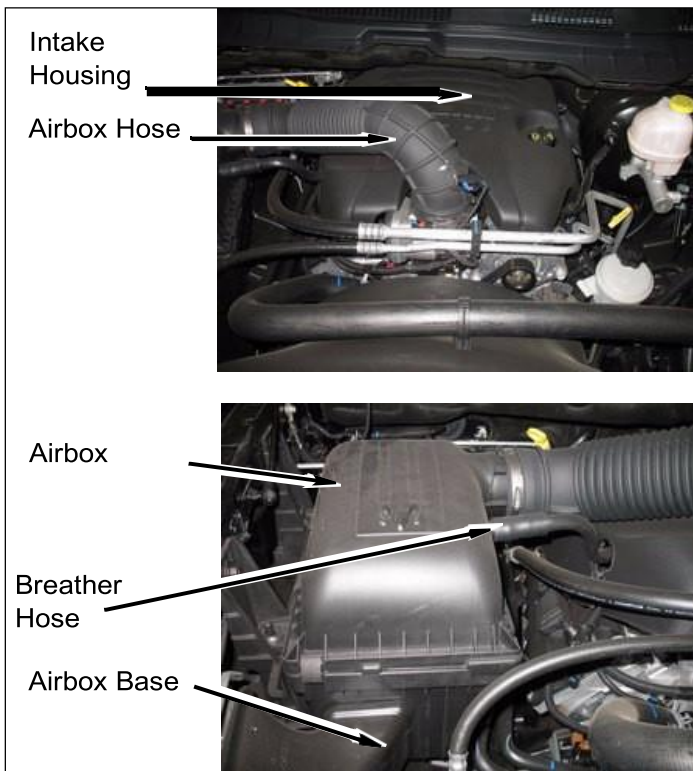
- c. Remove lower fan shroud section (Will not be reused).



## Engine Compartment

### 1. Airbox

- a. Release four clips from airbox cover. Remove breather hose from airbox cover. Loosen clamp and airbox hose at intake housing.



- b. Remove airbox cover, base and filter from vehicle.

### 2. Steering Shaft

#### ⚠ WARNING

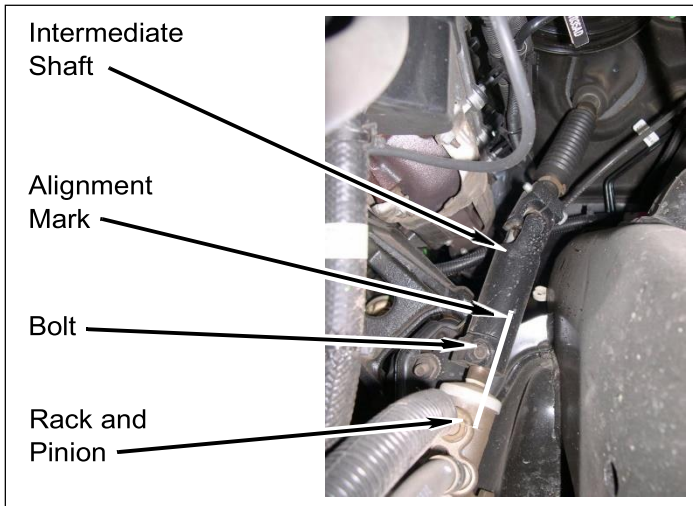
Accidental deployment of the air bag can result in serious personal injury or death. To avoid accidental deployment during installation of the lift kit, the Supplemental Restraint System (SRS, or airbag) must remain deactivated. Do not allow anyone near the airbag during installation. Refer to the factory service manual or owner's manual for the recommended procedure to disable the SRS. After kit installation, the SRS must be reactivated before driving the vehicle.

#### ⚠ CAUTION

If the following step is not performed, the airbag clockspring could be damaged. Do not turn the steering wheel while the steering shaft is disconnected.

- a. Strap steering wheel to prevent accidental movement.

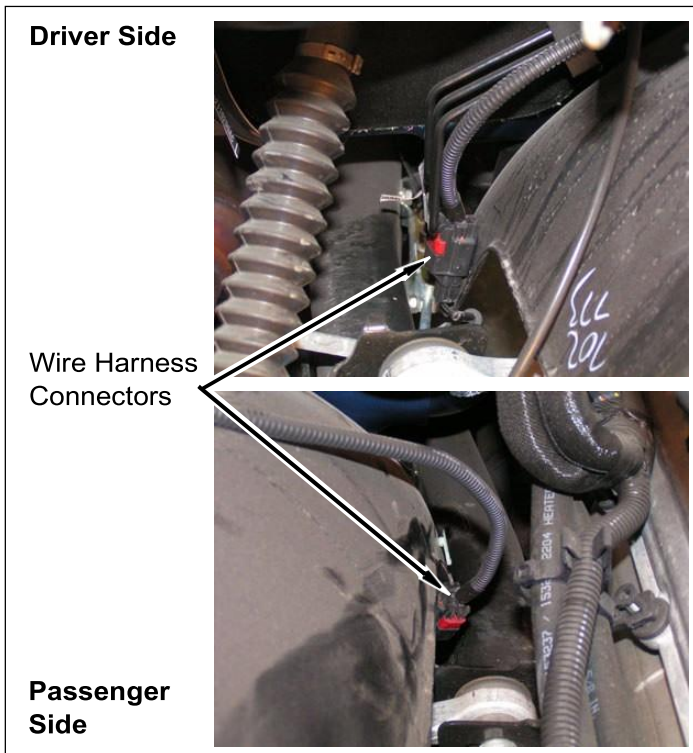
- b. Mark intermediate shaft in relation to rack and pinion as shown.



- c. Remove bolt and intermediate shaft from rack and pinion. Slide intermediate shaft up to separate from rack and pinion.

**NOTE**  
Intermediate shaft may not separate from rack and pinion until cab is lifted.

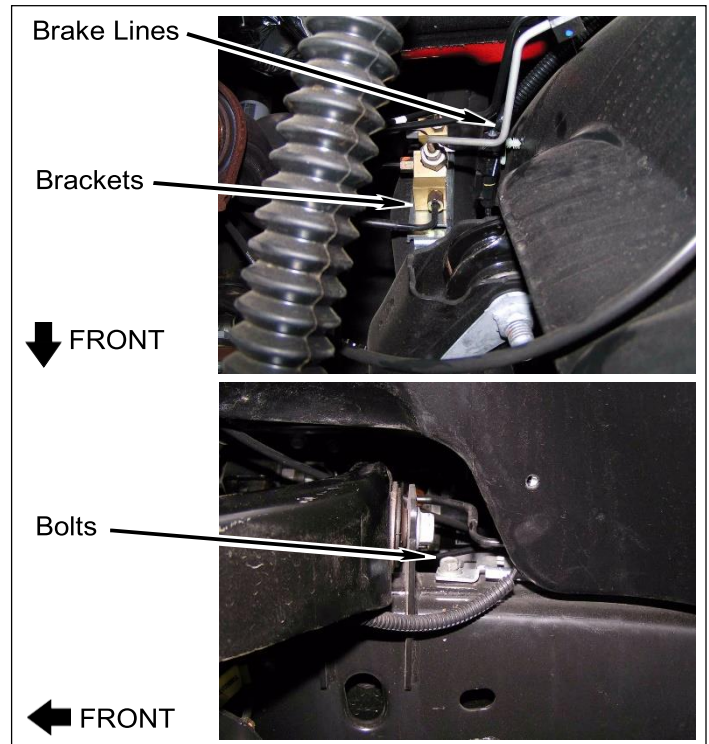
- 3. Remove brake sensor harness from passenger and driver fender wells.



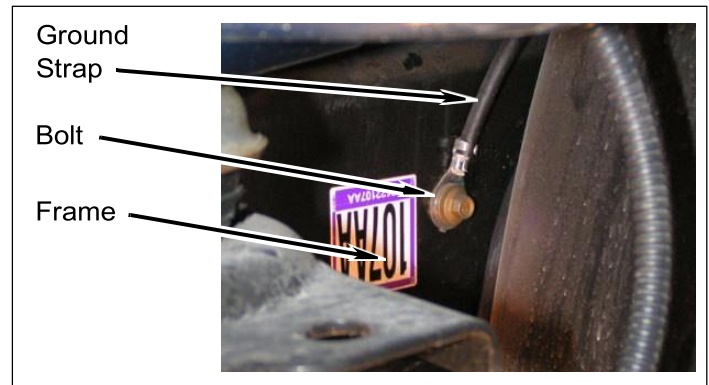
## Underside of Vehicle

- 1. Wire harnesses and brake lines

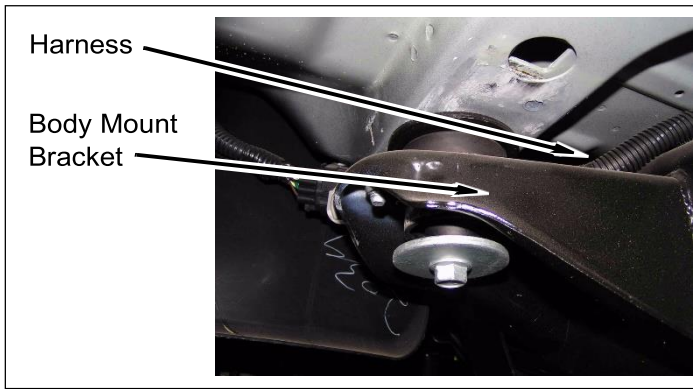
- a. Remove bolts and brake line brackets from driver side frame rail.



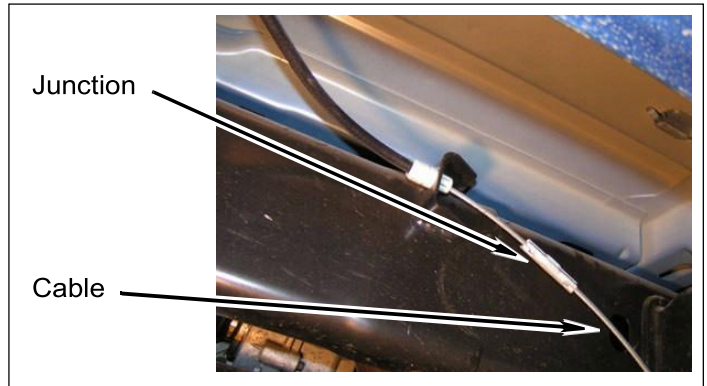
- b. Remove bolt and ground strap from driver side frame rail.



- c. Remove harness from driver side body mount bracket.



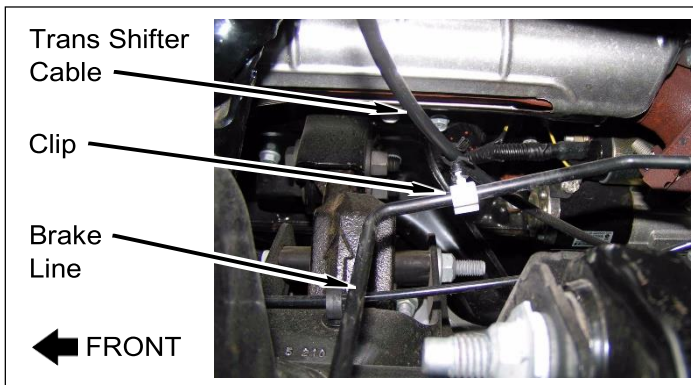
- b. Use expanding pliers to disconnect parking brake cable from junction.



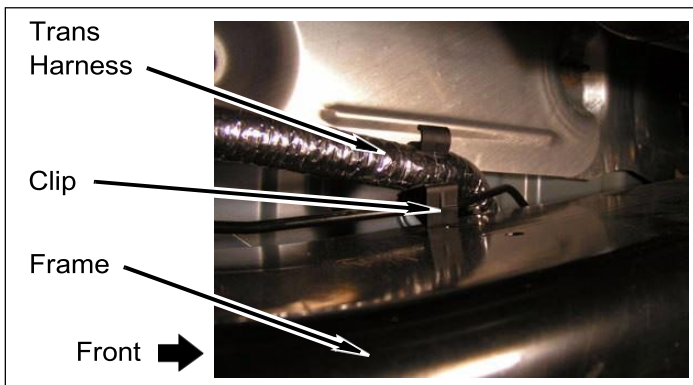
- c. Remove parking brake cable from driver side frame mount.

**NOTE**  
The following procedures applies ONLY to automatic transmissions.

- d. **Automatic transmission models:** Remove transmission shifter cable from clip on driver side brake line.



- e. **Automatic transmission models:** Remove transmission wire harness from frame mount clip.



2. Parking brake cable

- a. Pull slack into parking brake cable. Attach locking pliers to parking brake cable to allow slack, if necessary.

**Rear of Vehicle**

1. Fuel filler

**⚠ WARNING**  
Use extreme caution when working near fuel line(s) and fuel tank(s). Clean up spilled fuel immediately. Any spark could cause an explosion or fire resulting in serious personal injury and/or property damage.

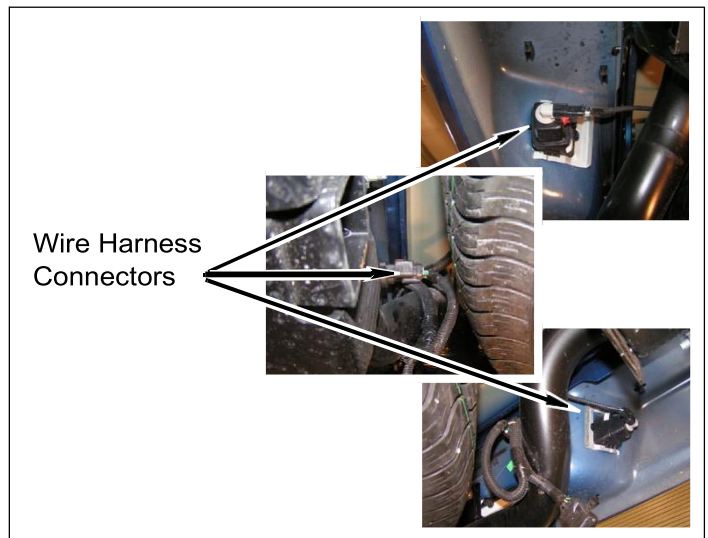
- a. Remove fuel cap from fuel filler.

2. Ground strap

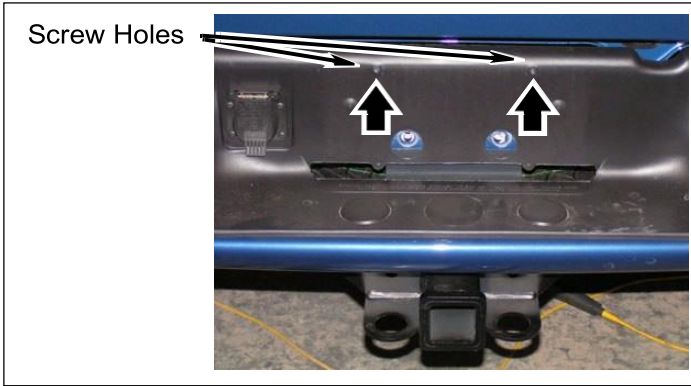
- a. Remove bolt and ground strap from frame near fuel filler hoses.

3. Rear bumper

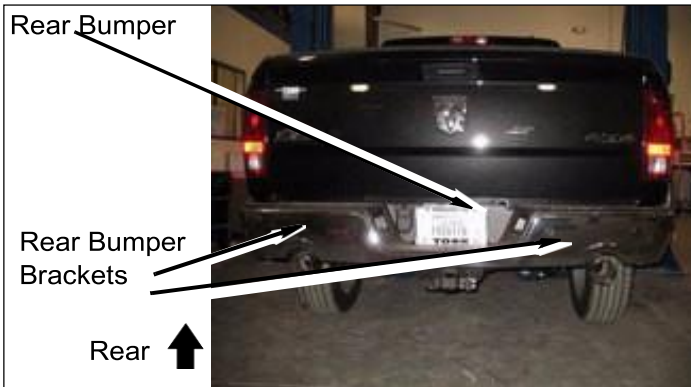
- a. Remove wire harness connectors from rear bumper.



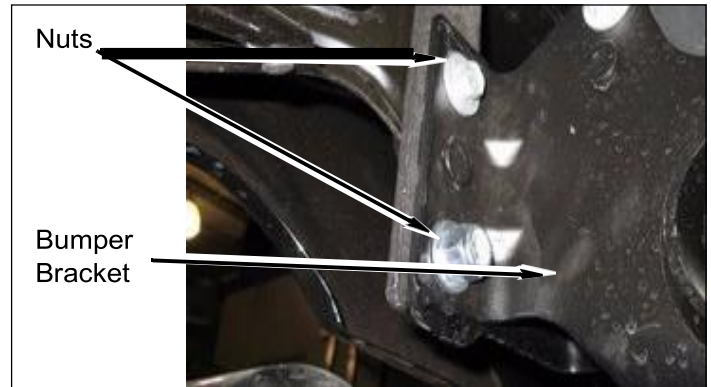
b. Remove two screws and license plate.



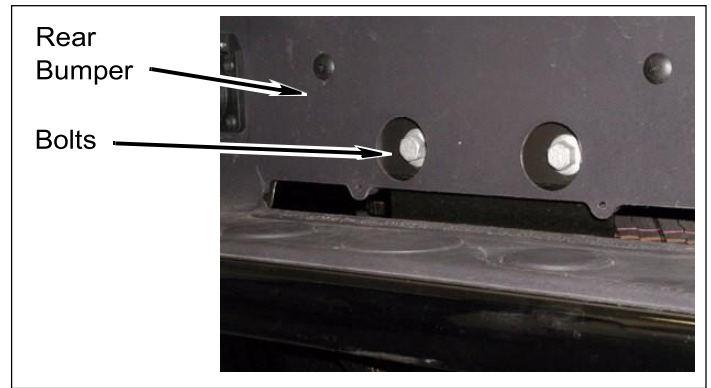
c. Remove four bolts from rear bumper bracket..



d. Remove two nuts on each side of bumper.



e. Remove two bolts from rear bumper and trailer hitch, if equipped.

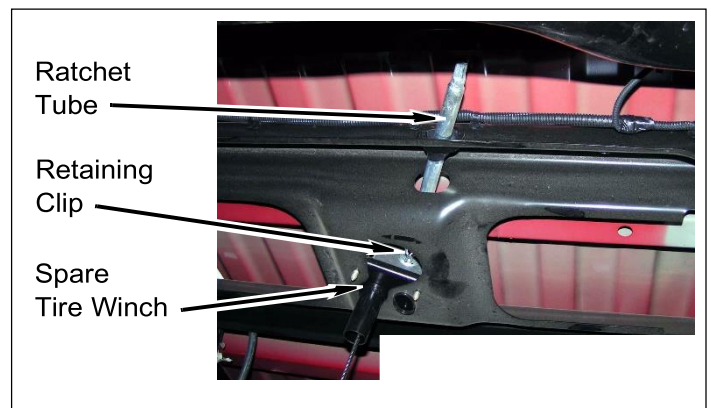


f. Remove rear bumper.

#### 4. Spare tire winch

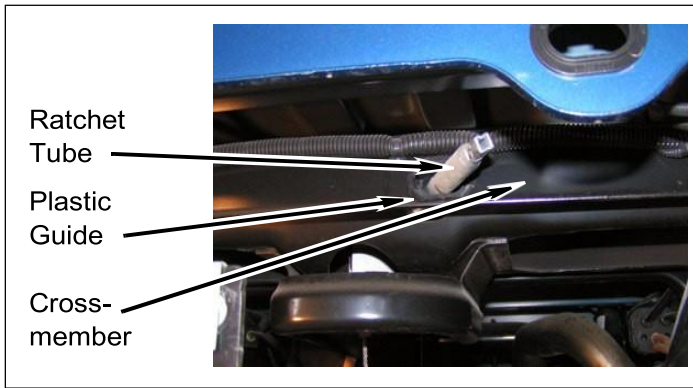
a. Lower spare tire to ground and remove (see owner's manual for procedure).

b. Remove retaining clip and ratchet tube from spare tire winch.

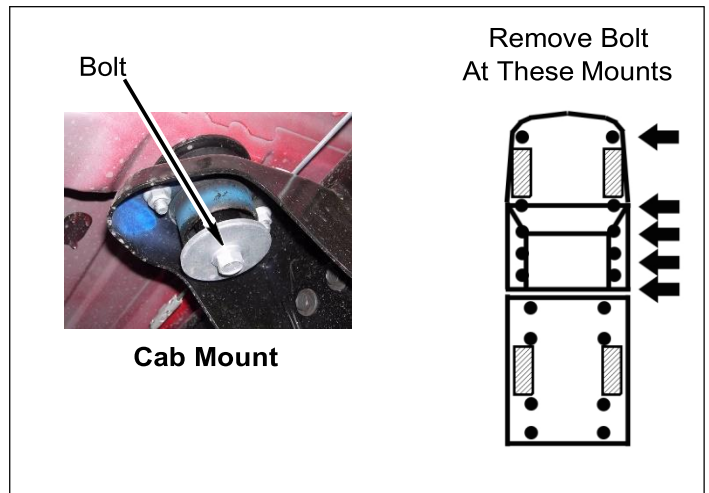


c. Remove Spare tire winch.

- d. Remove plastic ratchet tube guide from cross-member.



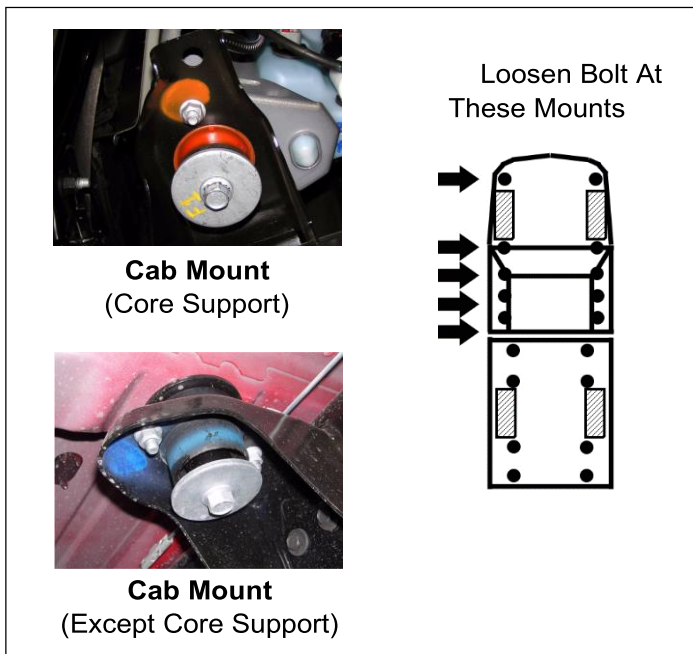
- b. Remove bolt from each cab mount on passenger side.



## Install Kit

### Cab

1. Prepare to lift cab from frame
  - a. Loosen, but DO NOT REMOVE, cab mounting bolts on driver side.



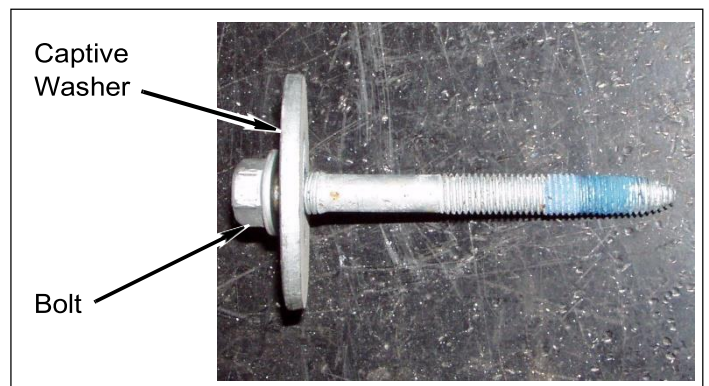
### ⚠ WARNING

Use extreme caution when lifting body from frame. To prevent serious personal injury, ensure the lifting device is securely placed. Keep your hands out from between the body and frame.

### ⚠ CAUTION

Continually check hoses, wires, lines, etc. to be sure that everything is flexing properly and not binding, or damage to the vehicle could result. Be especially careful of the a/c hoses at the fire wall, the belt pulley, and at the core support. Ensure brake lines stretch while lifting. Bending the lines to gain ample slack may be necessary. Be extremely careful not to kink the lines.

2. Cab passenger side
  - a. Remove captive washers from each factory cab body mount bolt.



### NOTE

The number of cab mounting bolts may vary with the length of the cab.

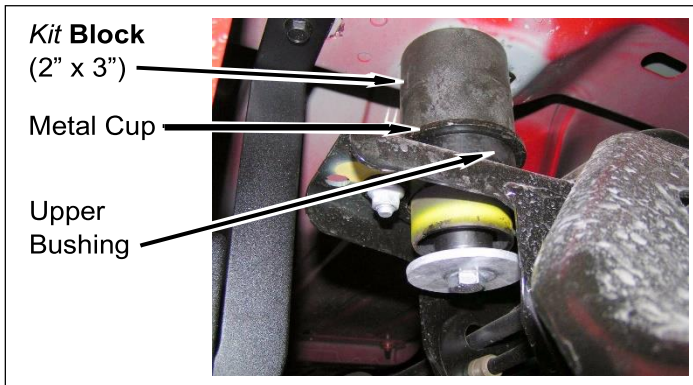
- b. Position a hydraulic jack and a wood block under passenger side of cab (under the body seam). Slowly lift cab just enough to install a **kit block** on top of factory upper bushing.



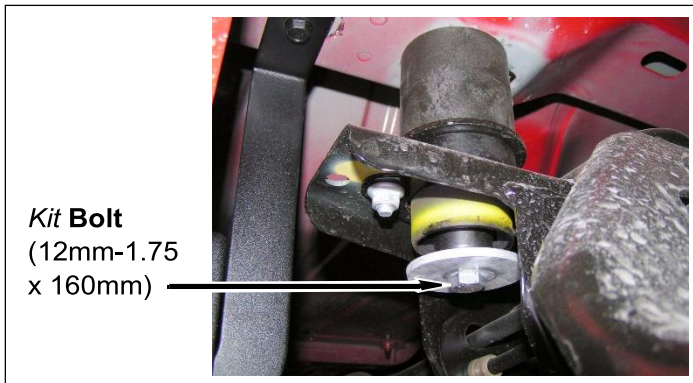
**⚠ WARNING**

The **kit blocks** must be installed in addition to the factory upper and lower bushings. Installing the **kit blocks** without the factory upper and lower bushings could result in damage to the vehicle or serious personal injury.

- c. Place **kit blocks** (2" x 3") on metal cups and upper bushings on each cab mount.

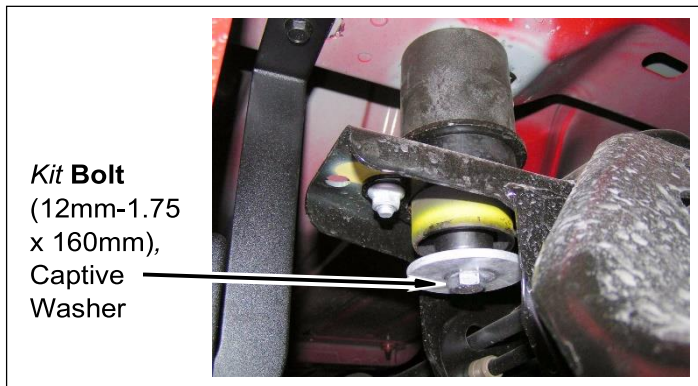


- d. Lower cab onto **kit blocks** (2" x 3").
- e. Install **kit bolt** (12mm-1.75 x 160mm) into each cab mount. **DO NOT TIGHTEN.**



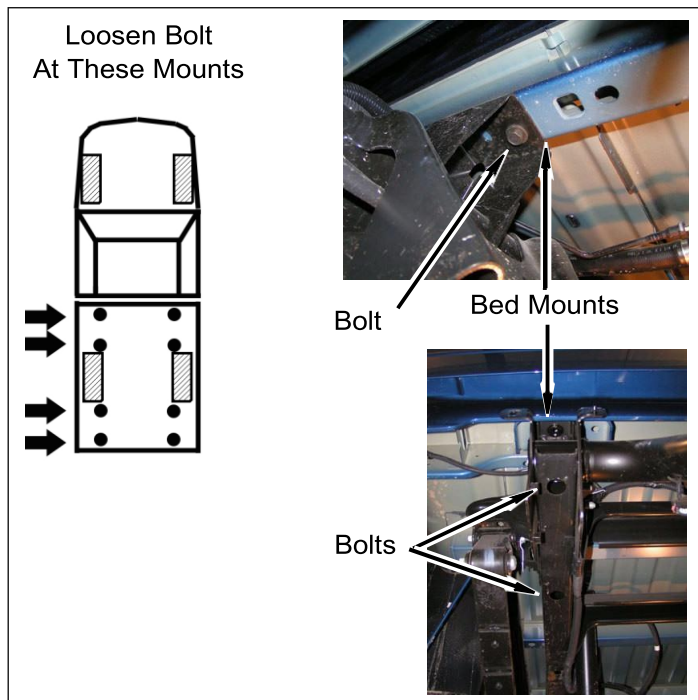
- 3. Cab driver side
  - a. Repeat previous steps on driver side of cab.
  - b. Set cab-to-bed spacing according to previous measurement.

- c. Remove each **kit bolt**, one at a time, and apply a few drops of **kit Loctite®** to threads. Install **kit bolt**, and captive washer. Tighten **kit bolts** to 55 ft. lbs.



**Bed**

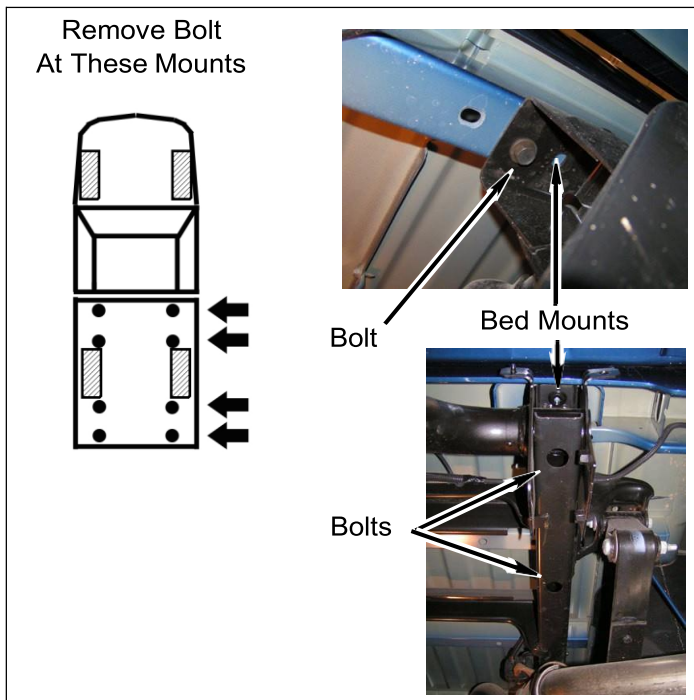
- 1. Prepare to lift bed from frame
  - a. Loosen, but **DO NOT REMOVE**, bed mounting bolts on driver side.



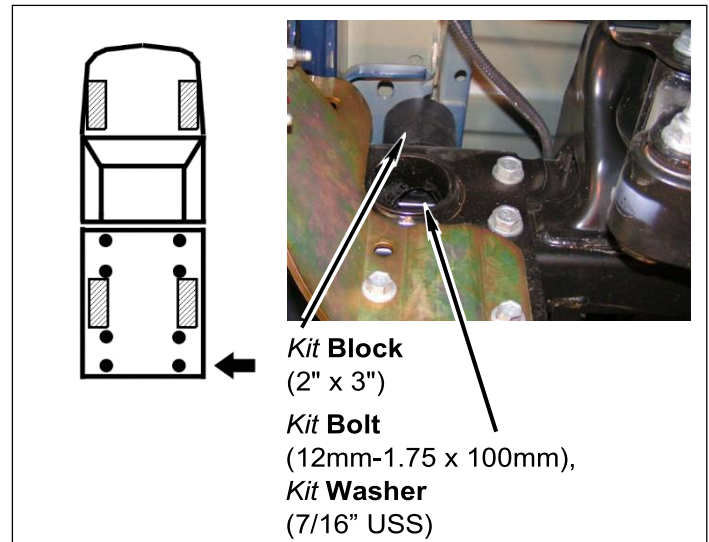
**NOTE**

The number of bed mounting bolts may vary with the length of the bed.

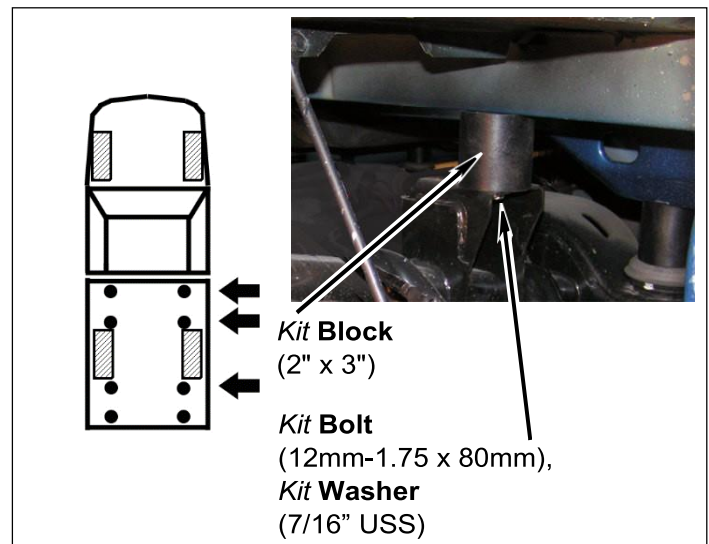
2. Remove bolt from each bed mount on passenger side.



- b. Place a **kit block** (2" x 3") rear frame mount.



- c. Place **kit blocks** (2" x 3") on two (or three) other frame mounts.



- d. Lower bed onto **kit blocks**.

- a. Using a hydraulic jack and a wood block, slowly lift passenger side of bed a little more than 2".

- e. At rear bed mount, install **kit bolt** (12mm-1.75 x 100mm) and **kit washer** (7/16" USS). **DO NOT TIGHTEN.**

- f. At each other bed mount, install **kit bolt** (12mm-1.75 x 80mm) and **kit washer** (7/16" USS). **DO NOT TIGHTEN.**

- g. Repeat previous steps on driver side of bed.

- h. Set bed-to-cab spacing according to previous measurement.

**⚠ WARNING**

Use extreme caution when lifting the bed from the frame. To prevent serious personal injury, ensure the lifting device is securely placed. Keep your hands out from between the bed and frame.

**⚠ CAUTION**

To prevent damage to the vehicle while lifting the bed, continually check hoses, wires, brake lines, etc. to ensure everything is flexing properly and not binding. Ensure clearance between bed and cab is maintained.

3. Bed passenger side

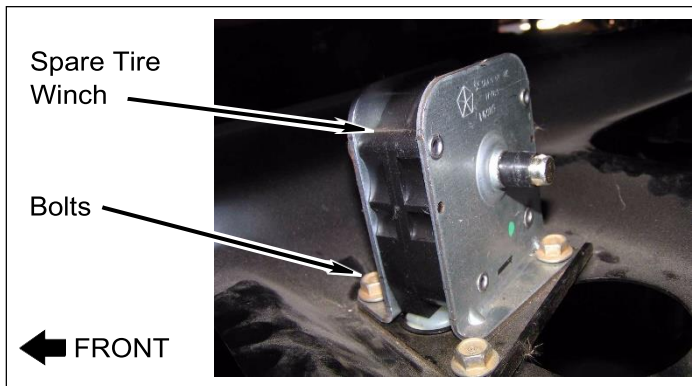
- i. Remove each *kit bolt*, one at a time, and apply a few drops of *kit Loctite*® to threads. Install *kit bolt* with *kit washer* (7/16" USS). Tighten *kit bolts* to 55 ft. lbs.

- c. Install spare tire winch onto *kit bracket* (winch) with two *kit bolts* (3/8" x 1"), four *kit washers* (3/8" USS), and two *kit nuts* (3/8" Nylock).

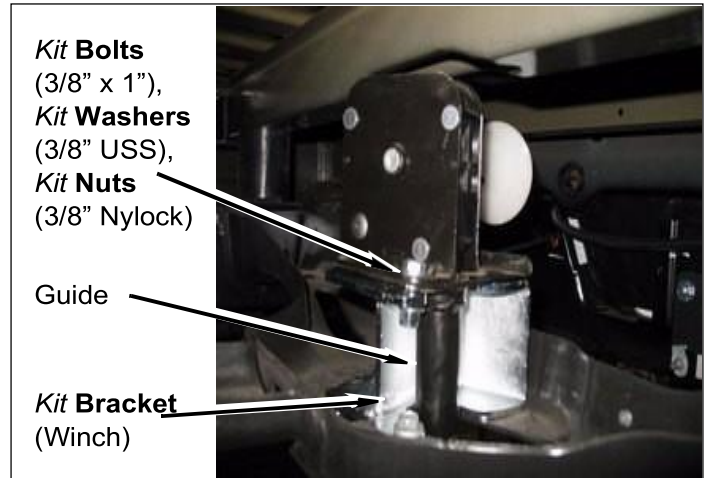
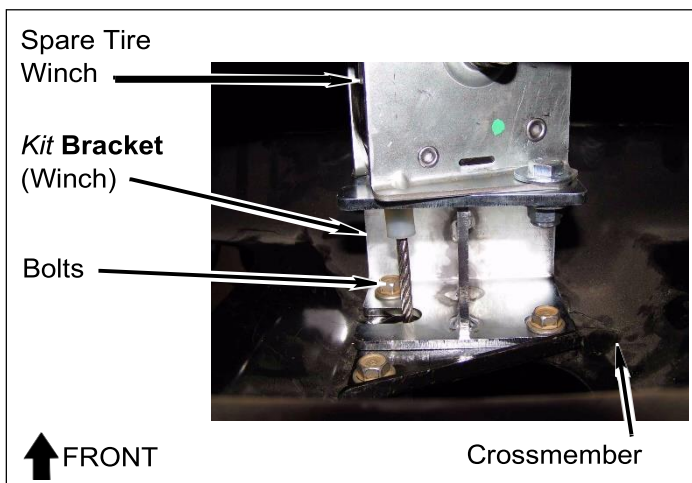
## Rear of Vehicle

### 1. Spare tire winch

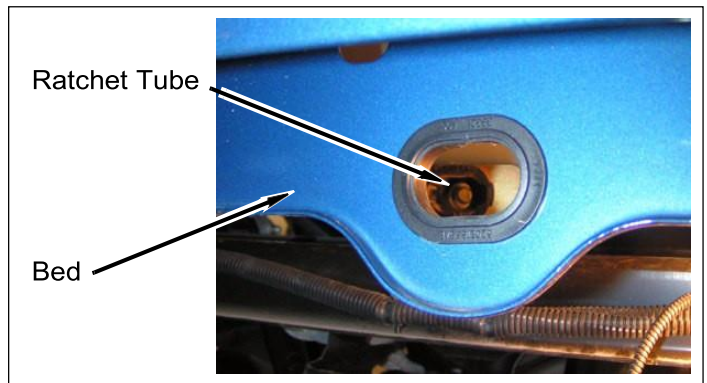
- a. Remove two bolts and spare tire winch from crossmember.



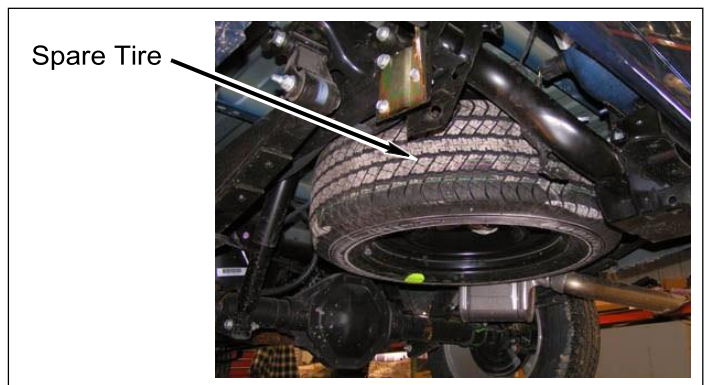
- b. Install *kit bracket* (winch) and mounting plate onto crossmember with two bolts. Position bracket between winch and the frame.



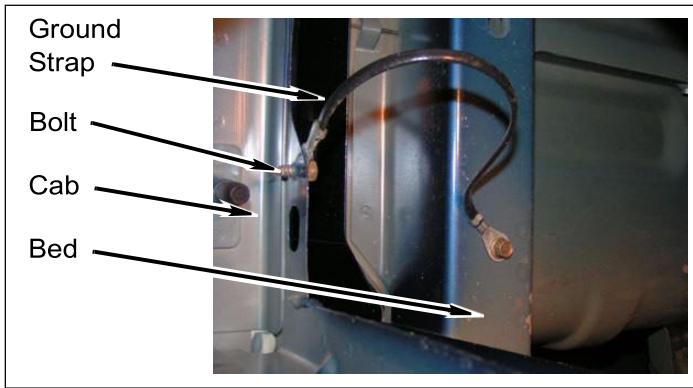
- d. Install ratchet tube onto spare tire winch with retaining clip
- e. Verify ratchet tube is visible through hole in bed and plastic ratchet tube guide. Adjust *kit bracket* (spare tire ratchet tube), if necessary.



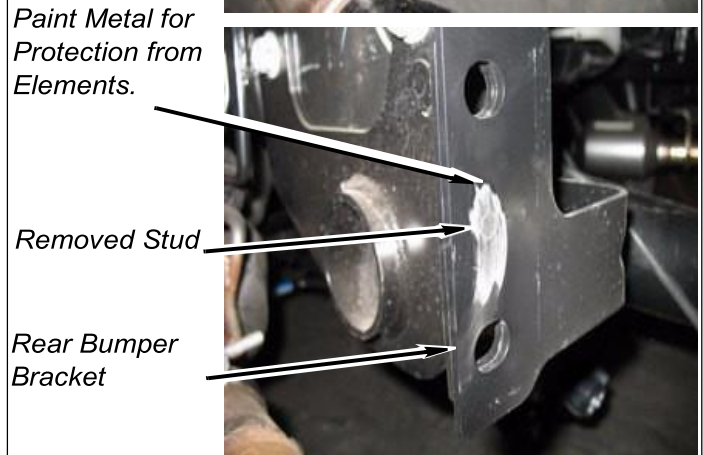
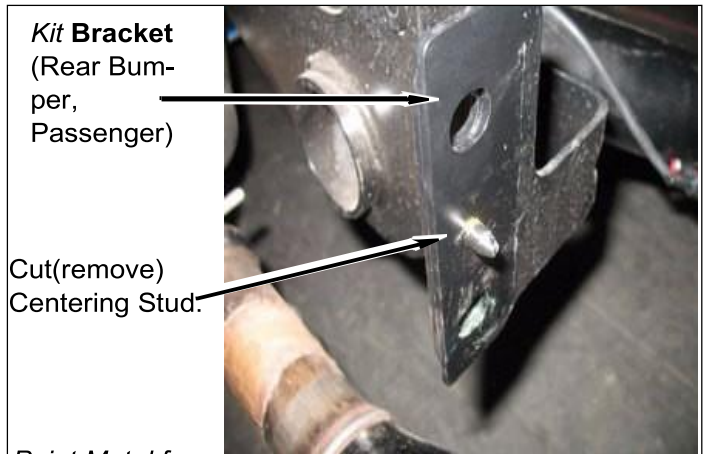
- f. Install spare tire on vehicle (see owner's manual).



- g. Reattach ground strap to frame with bolt near fuel filler hoses.



- b. Remove stud on each rear bumper bracket..

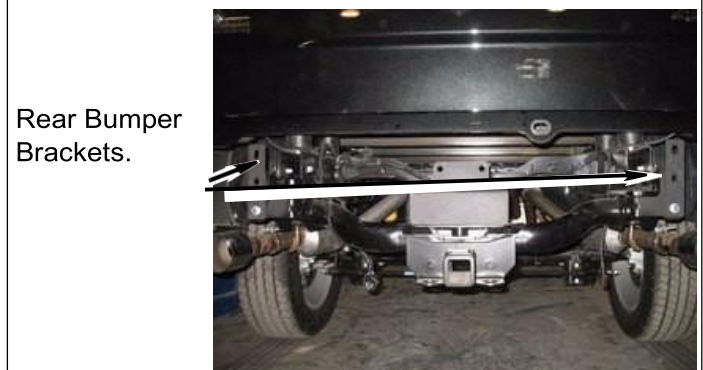
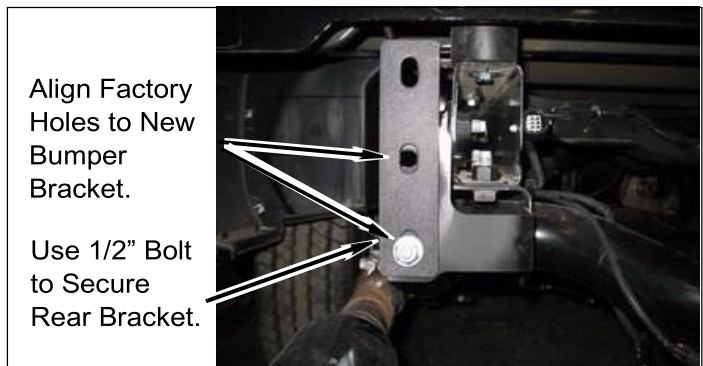
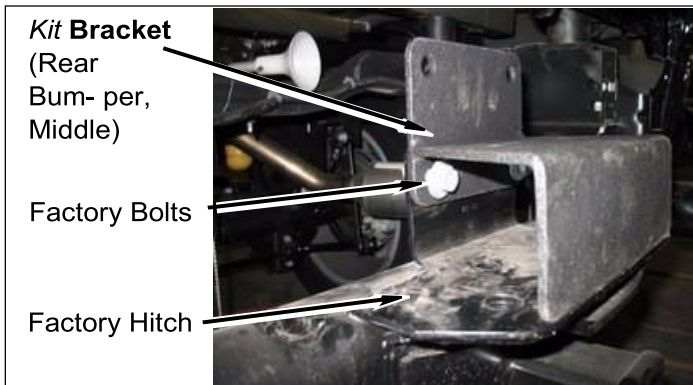


- c. Place rear bumper brackets in place with 1/2" bolt. Center bracket so that all holes align..

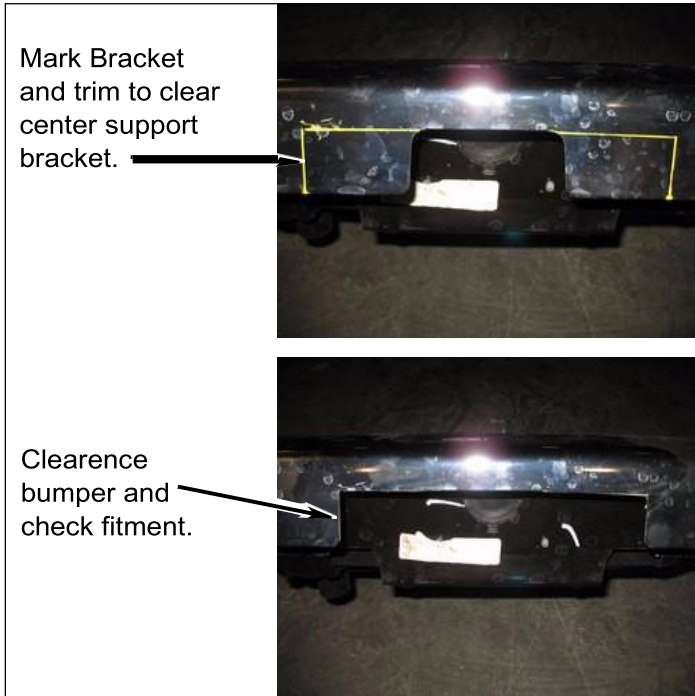
2. Rear bumper

**⚠ WARNING**  
 The following procedure is intended only to enhance the appearance of the vehicle. The rear bumper will no longer be rated for towing of any kind. Towing with the rear bumper after it has been lifted can result in death, serious personal injury, or damage to the vehicle. Towing after the bumper has been lifted should be accomplished using a rated Class III receiver type hitch.

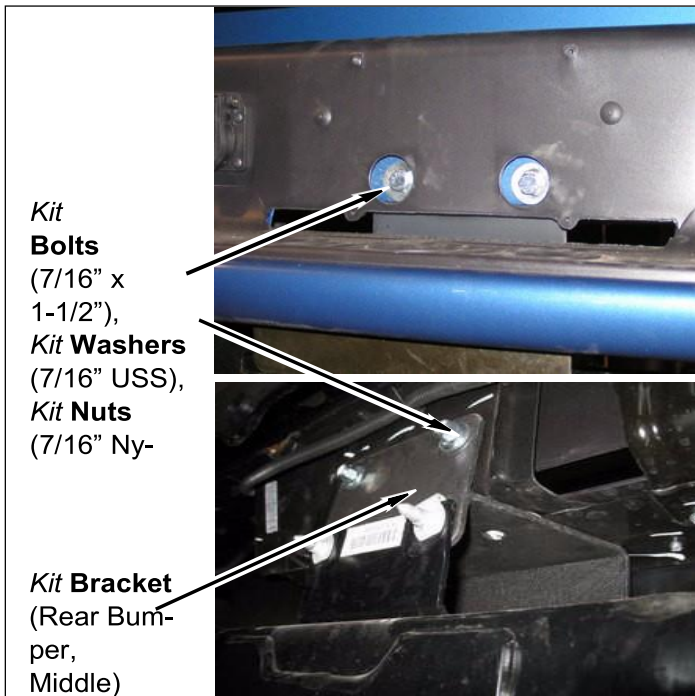
- a. Apply a few drops of *kit* **Loctite**® to factory bolts. Install *kit* **bracket** (rear bumper, middle) on trailer hitch with two factory bolts. **DO NOT TIGHTEN.**



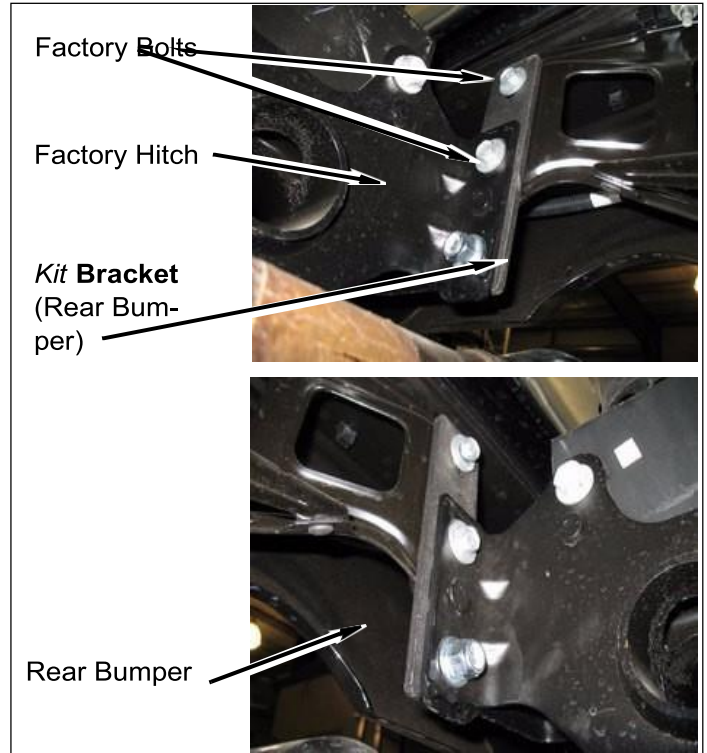
- d. Install rear bumper onto **kit bracket**. DO NOT TIGHTEN. Mark rear bumper and clearance bumper for center bumper support bracket (Cut about 9 1/2" across & 1 3/4" in).



- e. Install rear bumper onto **kit bracket** (rear bumper, middle) with two **kit bolts** (7/16" x 1-1/2"), four **kit washers** (7/16" USS) and two **kit nuts** (7/16" Nylock). DO NOT TIGHTEN.

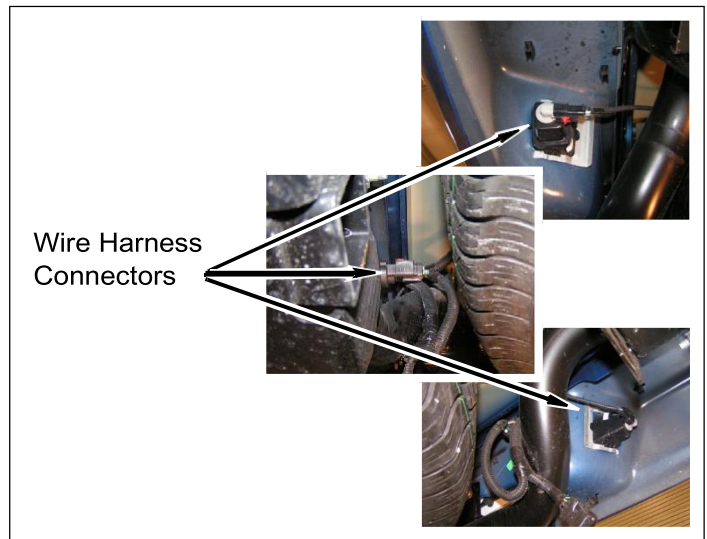


- f. Install **kit brackets** (rear bumper) onto bumper with two factory bolts on each side. DO NOT TIGHTEN.



- g. Align rear bumper to previous bed-to-bumper measurements. TIGHTEN all hardware.

- h. Connect wiring harnesses to bumper.



- i. Install license plate onto bumper with two factory screws.

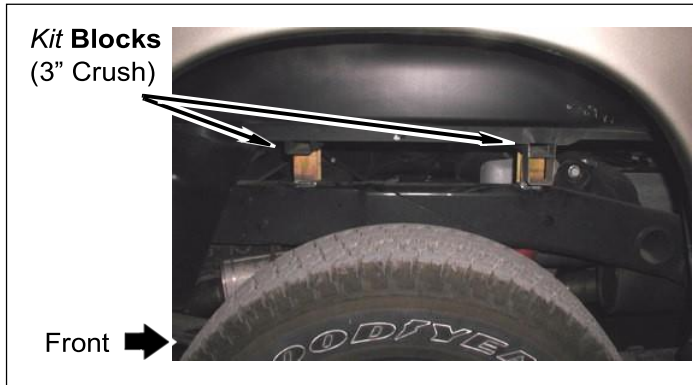
## Underside of Vehicle

### 1. Crush blocks

#### ⚠ WARNING

A certified welder should perform all welding.

- Weld two **kit blocks** (3" crush) onto passenger side frame, below bed, where shown.



- Repeat above step for driver side.

#### ⚠ WARNING

Use extreme caution when working near the fuel lines and the fuel tank. Clean up spilled fuel immediately. A spark could cause an explosion or fire resulting in serious personal injury and property damage.

### 2. Fuel filler

- Tighten gas cap.

### 3. Parking brake cable

- Reinstall Parking brake cable.

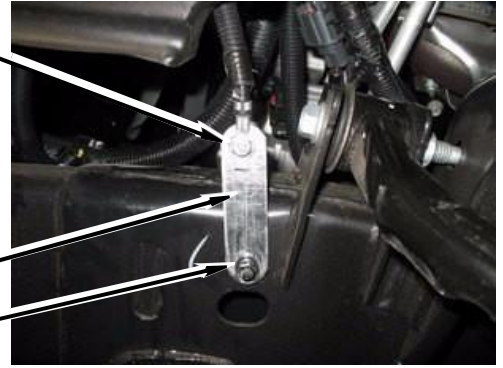
### 4. Ground strap

- Install ground strap onto **kit bracket** (3" ground, big hole) with **kit bolt** (1/4"-20 x 3/4"), two **kit washers** (1/4"-20 x 3/4") and **kit nut** (1/4"-20 Nylock)

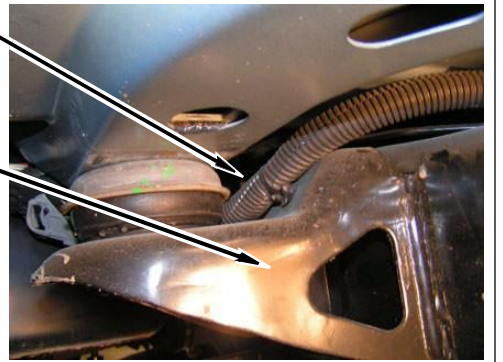
### 7. Install transmission wire harness on frame mount clip.

- Install wire harness to body mount bracket on driver side with clip. .

**Kit Bolt**  
(1/4"-20x3/4"),  
**Kit Washers**  
(1/4" SAE),  
**Kit Nut**  
(1/4"-20  
Nylock)  
**Kit Bracket**  
(3" Ground)  
**Factory Bolt**



**Harness Clip**  
**Body Mount  
Bracket**



### 6. Brake line bracket

- Install two **kit brackets** (C-shaped) onto driver side frame with two bolts.
- Install brake line bracket onto to **kit brackets** (C-shaped) with two **kit bolts** (1/4" x 1"), four **kit washers** (1/4" SAE), and two **kit nuts** (1/4" Nylock).

**Kit Bolt**  
(1/4"-20x3/4"),  
**Kit Washers**  
(1/4" SAE),  
**Kit Nut**  
(1/4"-20  
Nylock)

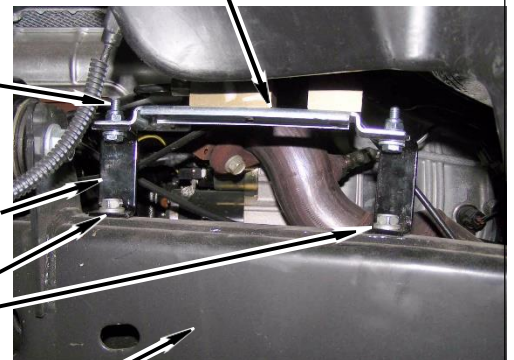
**Kit Brackets**  
(C-Shaped)  
**Bolts**

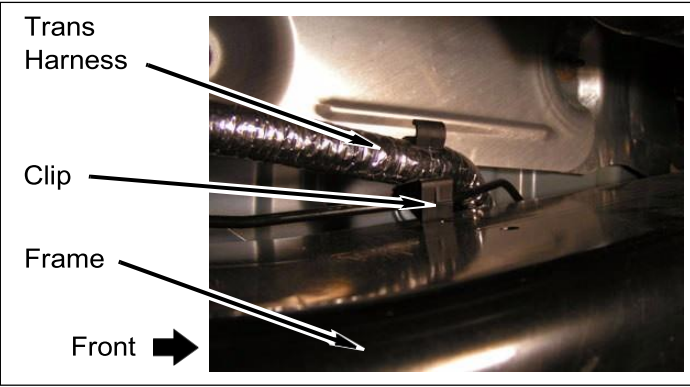
**Kit Brackets**  
(C-Shaped)

**Bolts**

**Driver Side Frame**

**Brake Line Bracket**





## Engine Compartment

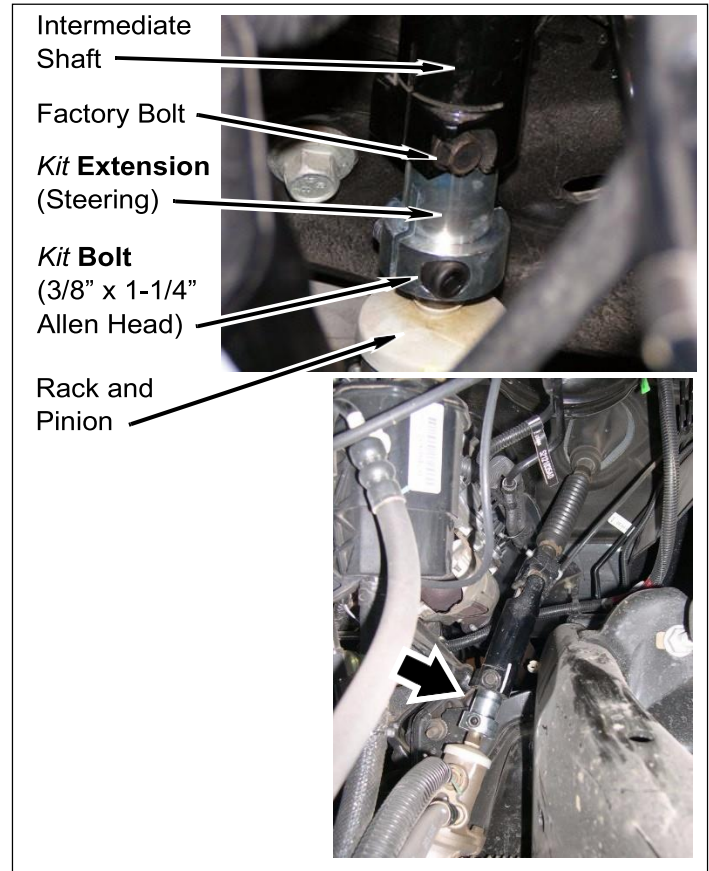
### 1. Steering shaft



#### ⚠ WARNING

Verify the steering extension is securely installed as specified in the instructions. Failure to do so may cause steering malfunction, resulting in property damage or serious personal injury.

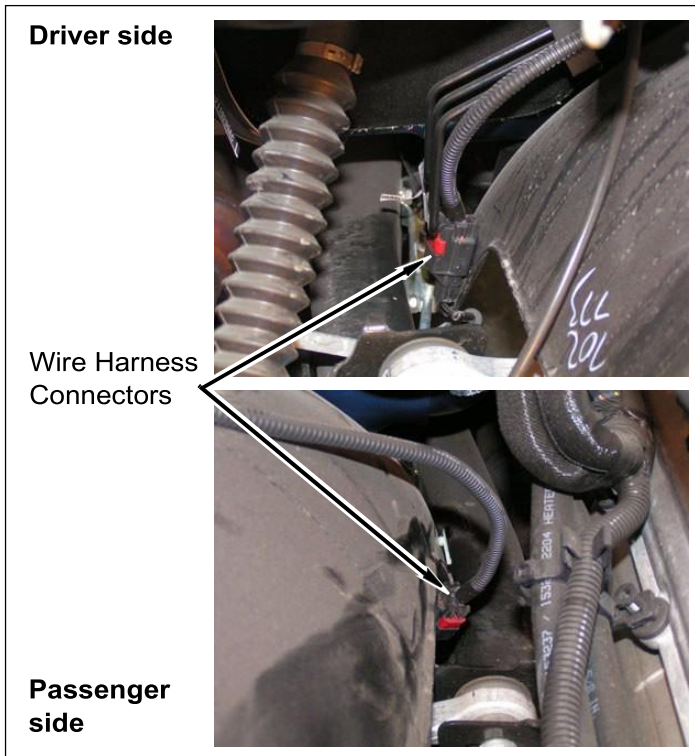
and intermediate shaft are aligned.



- b. Install intermediate shaft on **kit extension** (steering), ensuring marks on intermediate shaft and rack and pinion are aligned.
- c. Apply a few drops of **kit Loctite®** to factory bolt and **kit bolt** (3/8" x 1-1/4" Allen head).
- d. Install and TIGHTEN bolts to **33 lb.-ft.**

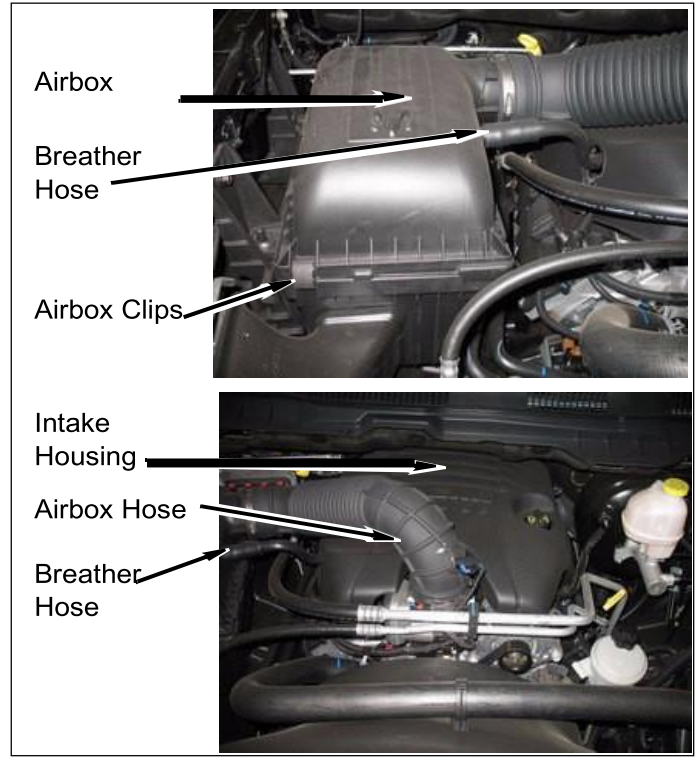
- a. Install **kit extension** (steering) in position on rack and pinion. Ensure marks on rack and pinion

2. If possible, install brake sensor harness on passenger and driver fender wells.



3. Fan shroud
  - a. Be sure that the fan clears the fan shroud.

4. Airbox
  - a. Install airbox base and filter on vehicle.
  - b. Install airbox cover onto airbox base with four clips. Install breather hose on airbox cover. TIGHTEN airbox hose clamp at intake housing.



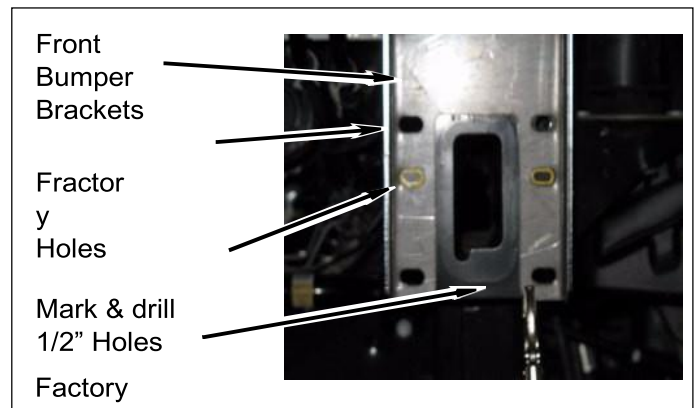
### Front of Vehicle

1. Front bumper

#### ⚠ CAUTION

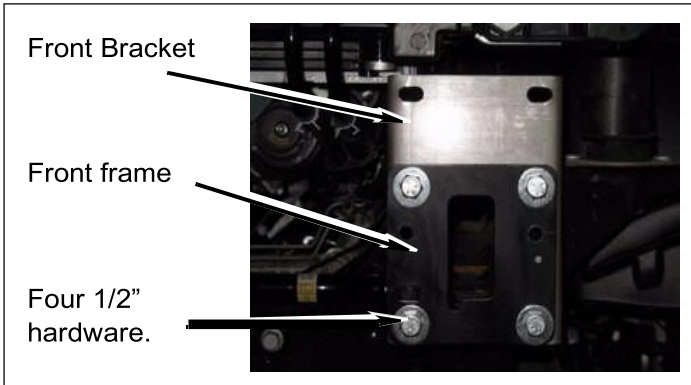
Factory supplied front two hooks CAN NOT be used, if equipped.

- a. Place new front bracket over driver frame horn, clamp it in place. Mark and drill two 1/2" holes(Centered) where marked(Be sure that everything is square). NOTE: Non-Chrome bumper will need to be drilled to 9/16". Repeat to passenger side.



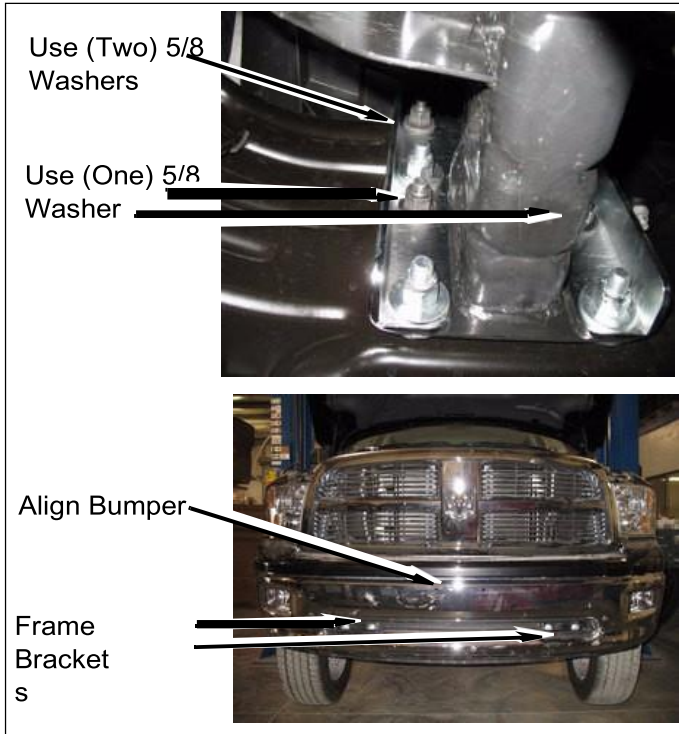


- b. Place new frame brackets behind the frame horn. Center the holes, use 1/2" hardware two secure the brackets to the factory frame. Do NOT TIGHTEN.

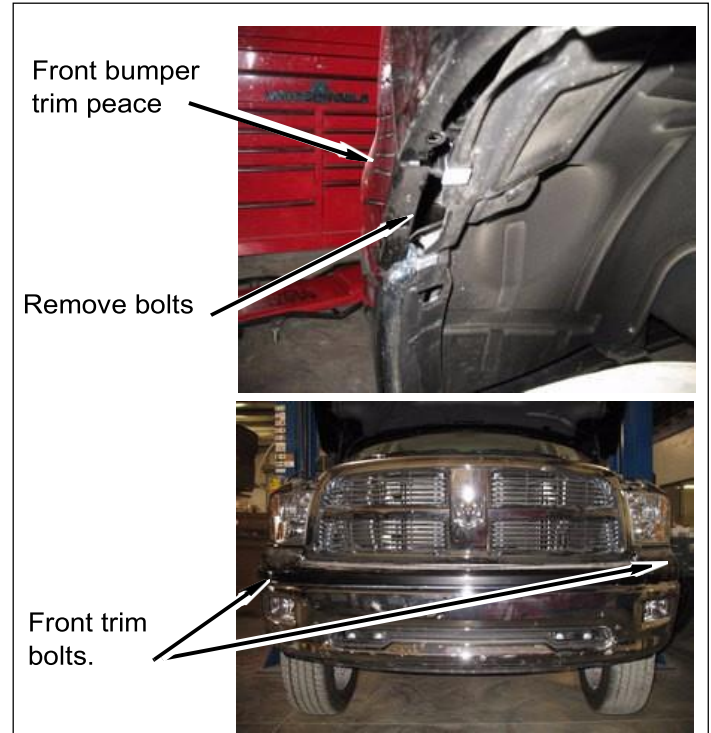


- c. Chrome bumper only: Place two 5/8 washers on driver side top stud on bumper. Then use one 5/8 washer on each lower stud (Between bumper and bracket). Use your factory nuts on the studs. NOTE: Non-Chrome bumper use three 5/8 washers on top and two on each lower stud.

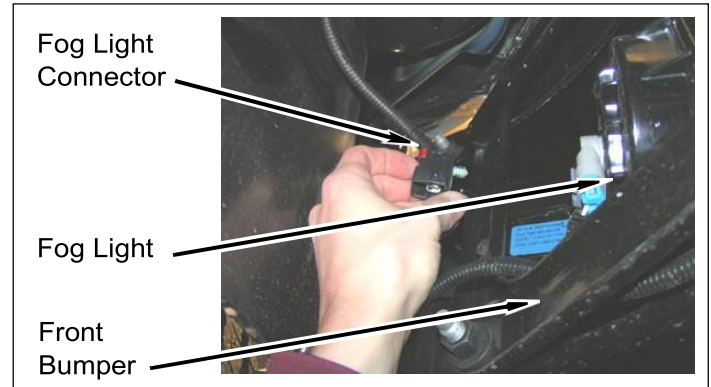
- d. Apply a few drops of *kit* Loctite® onto threads of studs. Align bumper, then tighten all hardware.



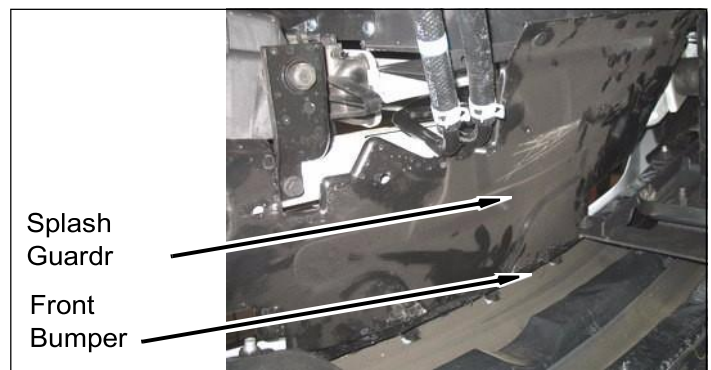
- e. Install front grill brace with factory hardware.
- f. Install trim piece over bumper grill support. Install each bolt at each corner (Under inner fender cover). Ensure both edges of fender well fit on backside of bumper edge.
- g. Install front grill using factory hardware.



- h. Connect fog light harness at driver side of front bumper and install onto front bumper, if equipped.



- i. **2009:** Install push clips and lower splash guard on bumper, core support, and fan shroud.



## 2. Front Suspension

- a. Chock rear tires and raise the front of vehicle placing jack stands under the frame rails so the tires are off the ground.
- b. Support the front axle with a floor jack.
- c. Remove front tires.
- d. Remove the sway bar link from sway bar at the frame.
- e. Remove the upper ball joint nut and separate the knuckle from the upper A-arm using the appropriate Puller tool.
- f. Remove the lower strut nuts on strut tower (3) per side.

**NOTICE:** leave one of the nuts on the strut to prevent the strut from dropping out in the next step.

- g. Remove the lower strut bolt and nut.
- h. Remove the strut from the upper strut tower so you can install the spacer.
- i. Install the stud extenders over the stock strut studs.
- j. Install the spacer over the stud extenders.
- k. Install the strut with the spacer onto the lower strut mount. Leave the bolt loose.
- l. Install the strut to the strut tower. Using a floor jack, raise the lower control arm and reconnect the strut to the strut tower using the supplied nuts and washers.
- m. Reconnect the upper ball joint to the knuckle.
- n. Torque all nuts and bolts to OEM specifications.
- o. Install the wheels.
- p. Remove jack stands and lower the truck back on the ground. Remove all jacks and jack stands from under vehicle.
- q. Torque the lug nuts to 85ft.lbs. using an X pattern.

**!Caution: Have an alignment professional check and adjust the alignment to factory specifications.**

## After Completing Installation

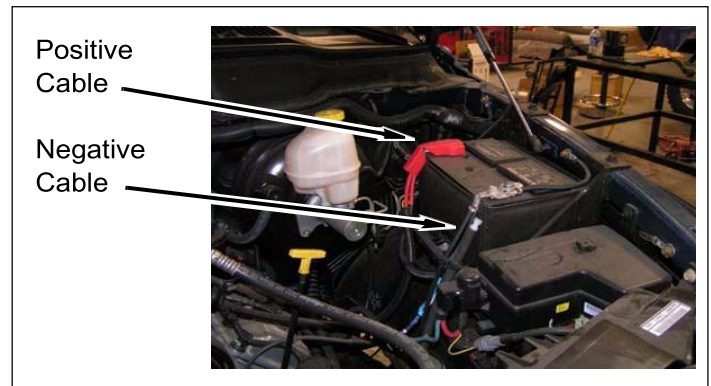
### Engine Compartment

1. Airbag fuse

#### NOTE

The location of the airbag fuse may vary; check the owner's manual.

- a. Install airbag fuse(s).
  - b. Install fuse cover.
2. Connect both battery cables. Connect positive cable first, then negative cable.



### Miscellaneous

1. Apply **kit label** (warning) to dashboard in plain sight of all vehicle occupants.
2. Check all fasteners to ensure they are tight.
3. Ensure all wires, hoses, cables, etc. are properly connected and there is ample slack.
4. Test-drive vehicle. Check steering in both directions to ensure that there is no bind. Check operation of clutch, brake system, and parking brake. Check operation of transmission and transfer case. Ensure there is full engagement in all gears and 4WD ranges. Check battery connections and electrical component operation.