TRAIL FORTRESS

BUILT FOR THE TRAIL. CHECKED FOR YOUR TRUCK.

Rough Country 59850 Installation Instructions

6-Inch Lift Kit with Vertex Shocks for 2009-2010 Ford F-150

Part number: 59850

trailfortress.com/rough-country-6-inch-lift-kit-59850

Scan for fitment, price and install help

921575000B

ROUGH COUNTRY SUSPENSION SYSTEMS®

575INSTBAG

2009-14 F-150 4”/6” LIFT KIT

THANK YOU FOR CHOOSING ROUGH COUNTRY FOR YOUR SUSPENSION NEEDS.

Rough Country recommends a certified technician install this system. In addition to these instructions, professional knowledge of disassemble/reassembly procedures as well as post installation checks must be known. Attempts to install this system without this knowledge and expertise may jeopardize the integrity and/or operating safety of the vehicle.

Please read instructions before beginning installation. Check the kit hardware against the parts list. Be sure you have all needed parts and know where they go. Also please review tools needed list and make sure you have needed tools.

PRODUCT USE INFORMATION

⚠WARNING As a general rule, the taller a vehicle is, the easier it will roll. We strongly recommend, because of rollover possibility that seat belts and shoulder harnesses should be worn at all times. Avoid situations where a side rollover may occur.

Generally, braking performance and capability are decreased when larger/heavier tires and wheels are used. Take this into consideration while driving. Do not add, alter, or fabricate any factory or after-market parts to increase vehicle height over the intended height of the Rough Country product purchased. Mixing component brands is not recommended.

Rough Country makes no claims regarding lifting devices and excludes any and all implied claims. We will not be responsible for any product that is altered. If questions exist we will be happy to answer them concerning the design, function, and correct use of our products.

The 6”suspension system was developed using a 35X12.50/18 tire with 18 x 9 wheel with 4 1/2” backspace. When using a stock wheel the maximum tire width is 11 1/2”. The lifts were designed to lift the front to level the vehicle. Due to manufacturing, dimension variances, and inflation all tire and wheel combinations should be tested prior to installation on all oversized / wider then stock tires We recommend a wheel not exceeding 8" in width be used with a minimum backspacing of 4.5" to a maximum of 5".

⚠NOTICE **Some 2014 vehicles will require the EPAS (Electronic Power Assist Steering) plugs to be disconnected prior to beginning installation of this kit. See installation instructions. Failure to disconnect these plugs may result in damage to the EPAS module resulting in an error message being displayed, which will require replacement of the EPAS module**

NOTICE TO DEALER AND VEHICLE OWNER

⚠NOTICE Any vehicle equipped with any Rough Country product should have a “Warning to Driver” decal installed on the inside of the windshield or on the vehicle’s dash. The decal should act as a constant reminder for whoever is operating the vehicle of its unique handling characteristics.

Tools Needed:

5mm Allen Wrench	Floor Jack
8mm Allen Wrench	Jack stands
8mm wrench /socket	Reciprocating Saw
10mm wrench /socket	Hammer
12mm Wrench	9/16 wrench /socket
13mm wrench / socket	1 1/16” Wrench
15mm wrench /socket	Drill
16mm wrench /socket	1/4” Drill Bit
18mm wrench /socket	5/8” Drill Bit
19mm wrench /socket	41/64” Drill Bit
21mm wrench /socket	11/32” Drill Bit
22mm wrench /socket	
24mm wrench /socket	
30mm wrench /socket	

Torque Specs:

Size	Grade 5	Grade 8	Size	Class 8.8	Class 10.9
5/16”	15 ft/lbs	20ft/lbs	6MM	5ft/lbs	9ft/lbs
3/8”	30 ft/lbs	35ft/lbs	8MM	18ft/lbs	23ft/lbs
7/16”	45 ft/lbs	60ft/lbs	10MM	32ft/lbs	45ft/lbs
1/2”	65 ft/lbs	90ft/lbs	12MM	55ft/lbs	75ft/lbs
9/16”	95 ft/lbs	130ft/lbs	14MM	85ft/lbs	120ft/lbs
5/8”	135ft/lbs	175ft/lbs	16MM	130ft/lbs	165ft/lbs
3/4”	185ft/lbs	280ft/lbs	18MM	170ft/lbs	240ft/lbs

trailfortress.com/rough-country-6-inch-lift-kit-59850

2009-10 Models

59930 (4” Kit w/ N3 Rr Shocks):

575BOX2
1598BOX10
1598BOX1
1598BOX5
555BOX3
555BOX1
23165 x 1

59931 (4” Kit w/ N3 Struts & N3 Rr Shocks):

575BOX2
1598BOX10
1598BOX1
1598BOX5
555BOX1
501054
23165 x1

59970 (4” Kit w/ V2 Rr Shocks):

575BOX2
1598BOX10
1598BOX1
1598BOX5
555BOX3
555BOX1
760751

59971 (4” Kit w/ N3 Struts & V2 Rr Shocks):

575BOX2
1598BOX10
1598BOX1
1598BOX5
555BOX1
501054
760751

59830 (6” Kit w/ N3 Rr Shocks):

575BOX2
1598BOX10
1598BOX1
1598BOX5
557BOX1
557BOX3

59831 (6” Kit w/ N3 Struts & N3 Rr Shocks):

575BOX2
1598BOX10
1598BOX1
1598BOX5
557BOX1
501055
23165

59870 (6” Kit w/ V2 Rr Shocks):

575BOX2
1598BOX10
1598BOX1
1598BOX5
557BOX1
557BOX4
760751

2009-10 Models Cont’d

59871 (6” Kit w/ N3 Struts & V2 Rr Shocks):

575BOX2
1598BOX10
1598BOX1
1598BOX5
501055
760751

2011-14 Models (4” Kits)

57430 (4” Kit w/ N3 Rr Shocks):

575BOX2
1598BOX10
1558BOX1
1558BOX2
555BOX1
555BOX3
23165

57432 ((11-13 Only) 4” Kit w/ N3 Struts & N3 Rr Shocks):

575BOX2
1598BOX10
1558BOX1
1558BOX2
555BOX1
501054
23165

57431 ((2014 Only) 4” Kit w/ N3 Struts & N3 Rr Shocks):

575BOX2
1598BOX10
1558BOX1
1558BOX2
555BOX1
501051
23165

57470 (4” Kit w/ V2 Rr Shocks):

575BOX2
1598BOX10
1558BOX1
1558BOX2
555BOX3
555BOX1
760751

57472 ((11-13 Only) 4” Kit w/ N3 Struts & V2 Rr Shocks):

575BOX2
1598BOX10
1558BOX1
1558BOX2
555BOX1
501054
760751

57471 ((2014 Only) 4” Kit w/ N3 Struts & V2 Rr Shocks):

575BOX2
1598BOX10
1558BOX1
1558BOX2
555BOX1
501051
760751

Kit Boxes

2011-14 Models (6” Kits)

57530 (6” Kit w/ N3 Rr Shocks):

575BOX2
1598BOX10
1558BOX1
1558BOX2
557BOX1
557BOX3

57532 ((11-13 Only) 6” Kit w/ N3 Struts & N3 Rr Shocks):

575BOX2
1598BOX10
1558BOX1
1558BOX2
557BOX1
501055 x 2
23165 x 2

57531 ((2014 Only) 6” Kit w/ N3 Struts & N3 Rr Shocks):

575BOX2
1598BOX10
1558BOX1
1558BOX2
557BOX1
501052
23165

57570 (6” Kit w/ V2 Rr Shocks):

575BOX2
1598BOX10
1558BOX1
1558BOX2
557BOX1
557BOX4
760751

57572 ((11-13 Only) 6” Kit N3 Struts & V2 Rr Shocks):

575BOX2
1598BOX10
1558BOX1
1558BOX2
557BOX1
501055
760751

57571 ((2014 Only) 6” Kit w/ N3 Struts & N3 Rr Shocks):

575BOX2
1598BOX10
1558BOX1
1558BOX2
557BOX1
501052
760751

57557 ((2014 Only) 6” Kit w/ Vertex Coilovers & V2 Rr Shocks):

575BOX2
1598BOX10
1558BOX1
1558BOX2
557BOX1
680004L-2
680004R-2
760751

KIT CONTENTS

Kit Includes:

1558Box1 (11-14) or
1598Box1 (09-10):
- 1-Driver Side Knuckle
- 1-1598Bag8 **(09-10 Models Only)**

1558Box2 (11-14) or
1598Box5 (09-10):
- 1-Pass Side Knuckles
- 1-1598Bag8 **(09-10 Models Only)**

1598Box10:
- 1-Fr Cross-Member
- 1-Rr Cross-Member

575Box2:
- 1-1500
- 1-Rear Brake Bracket
- 1-575INSTBAG
- 1-1598Bag1
- 1-1598Bag11
- 1-1598Bag3
- 1-575Bag2
- 1557Bag15
- 2-Diff Drop Brackets
- 1-Diff Brace
- 1-Dr Sway Bar Drop Bracket
- 1-Pass Sway Bar Drop Bracket
- 1-Skid Plate
- 1-Driveshaft Spacer

557Box1 (6" Kits):
- 2-Rear Blocks
- 1-1263Bag2
- 4-9/16 x 3 x 13 Ubolts
- 1-9/16Bag

557Box3 (6" Kits):
- 1-10MMSTUDBAG-2
- 2-Strut Spacers
- 2-Rr N3 Shocks (660751)

555Box1 (4" Kits):
- 2-Rear Blocks
- 4-9/16 x 3 x 11 Ubolts
- 1-9/16Bag

555Box3 (4" Kits):
- 1-10MMSTUDBAG-2
- 2-Strut Spacers

20165:
- N3 Rear Shock

649052:
- 2014 6" N3 Loaded Strut

649055:
- 2009-13 6" N3 Loaded Strut

760751:
- 2-V2 Rear Shocks

680004:
- Dr Vertex Coilover

680005:
- Pass Vertex Coilover

690002:
- Rear Vertex Shock

23018:
- 2-2009-13 4" N3 Struts

649051:
- 2014 N3 Loaded Strut

575INSTBAG:
- ***Instructions***
- 2-Cable Ties

575Bag2:
- 8-Block Shims
- 2-Fr Brake Line Brackets
- 1-E-Brake Bracket

1557Bag15:
- ***For Pass Diff Brace***
- 2-12mm-1.75 x 35mm Bolt
- 2-12mm-1.75 Lock Nut
- 4-1/2" Flat Washers

1598Bag1:
- ***For Fr Dr Side Upper Diff Mount:***
  - *1-9/16" x 4" Bolt*
  - *2-9/16" Flat Washers*
  - *1-9/16" Lock Nut*
- ***For Fr Dr Side Lower Diff Mount:***
  - *1-9/16" x 4" bolt*
  - *2-9/16" Flat Washers*
  - *1-9/16" Lock Nut*
- ***For Rr / RrCross-Member:***
  - *2-18mm x 160mm Bolts*
  - *4-18mm Flat Washers*
  - *2-18mm Lock Nuts*
- ***For Fr Drivers Side Diff Mount:***
  - *1-9/16" x 4 1/2' Bolt*
  - *2-9/16" Flat Washers*
  - *1-9/16'" Lock Nut*

1598Bag11:
- ***For Front Skid Plate:***
  - *4-3/8" x 1" Bolt*
  - *4-3/8" Flat Washers*
- ***For Front Driveshaft:***
  - *6-10mm x 80mm Allen Bolts*
- ***For Front Brake Line Bracket:***
  - *2-5/16" x 3/4" Bolt*
  - *4-5/16" Flat Washer*
  - *2-5/16" Lock Nut*
- ***For Sway Bar Brackets:***
  - *4-3/8" x 1' Bolts*
  - *8-3/8' Flat Washers*
  - *4-Lock Nuts*

1598Bag8 (Included in 1598Box1 & 5):
For 2010 Models with 16mm Caliper bolts
- *4-5/16" thick washers*

1500:
- ***For Front Lower Control Arms:***
  - *4-18mm x 160mm Cam Bolts*
  - *4-Flat Washers*
  - *4-18mm Lock Nuts*

10MMSTUDBAG-2:
- ***For Front Strut Spacers:***
  - *6-3/8" Self Clinch Studs*
  - *1-10mm Hex Nut*
  - *6-Flange Lock Nuts*

1598Bag3:
- ***For Rear Brake Line Brkt:***
  - *1-3/8" x 1' Bolt*
  - *2-3/8" Flat Washers*
  - *1-3/8" Lock Nut*
- ***For Rear E-brake Bracket:***
  - *1-7/16" x 1" Bolt*
  - *2-7/16" Flat Washers*
  - *1-7/16" Lock Nut*
  - *1-5/16" x 3/4" Bolt*
  - *2-5/16" Flat Washers*
  - *1-5/16" Lock Nut*

1263Bag2:
- ***For Anti-Wrap Blocks:***
  - *4-7/16" x 3" U-Bolts*
  - *8-7/16" Nuts*
  - *8-7/16" Washers*

9/16Bag:
- ***For Rear Ubolts:***
  - *8-9/16" Nuts*
  - *8-9/16" Washers*

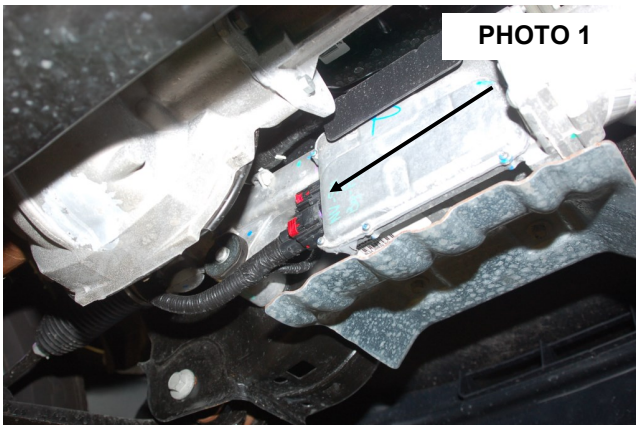
KIT CONTENTS

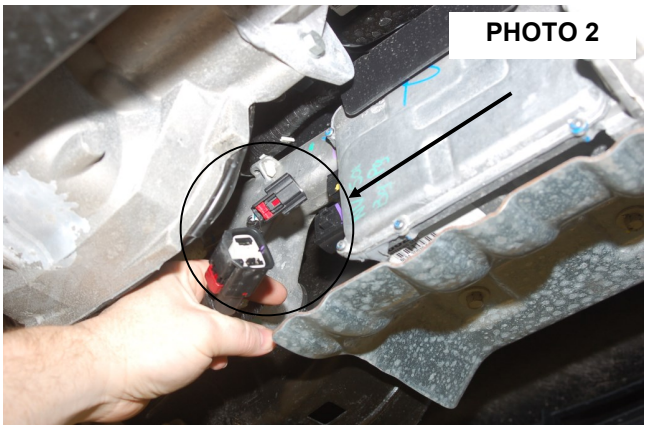


6” Kit Shown in Picture

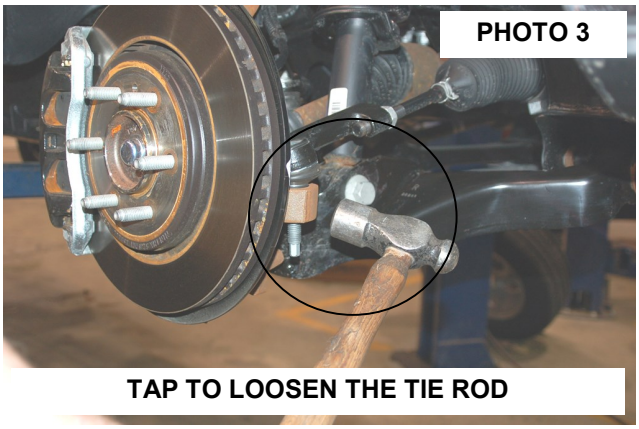
INSTALLATION INSTRUCTIONS

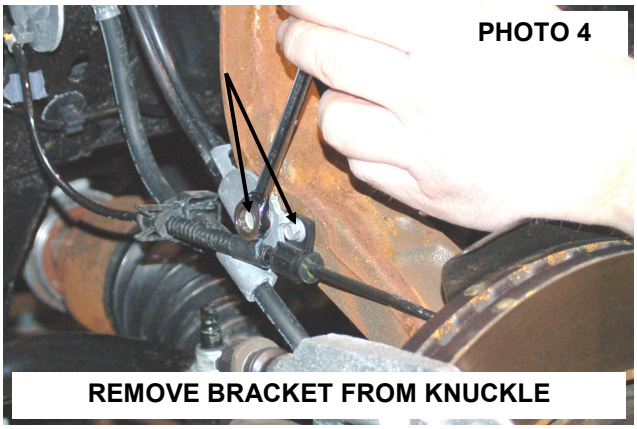
1. Chock the rear wheels and jack up the front of the vehicle.
2. Place jack stands under the frame rails and lower onto jack stands.
3. Remove the wheels/tires using a 21mm socket.
4. On 2011 models and if equipped, remove the EPAS (Electronic Power Assist Steering) Plugs as shown located on the steering assembly by the front differential. **See Photo 1 & 2.** **<u>This must be done BEFORE installation is started.</u>**



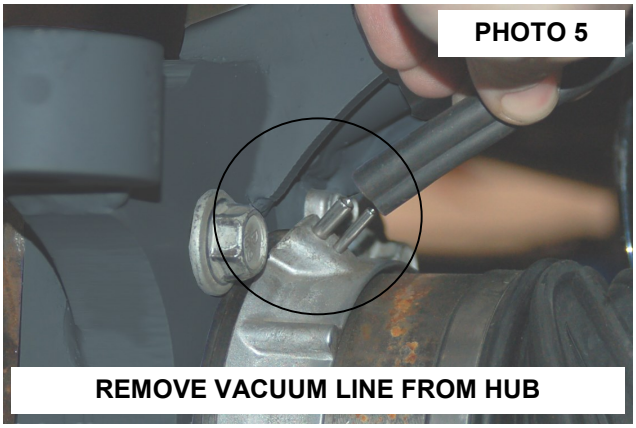


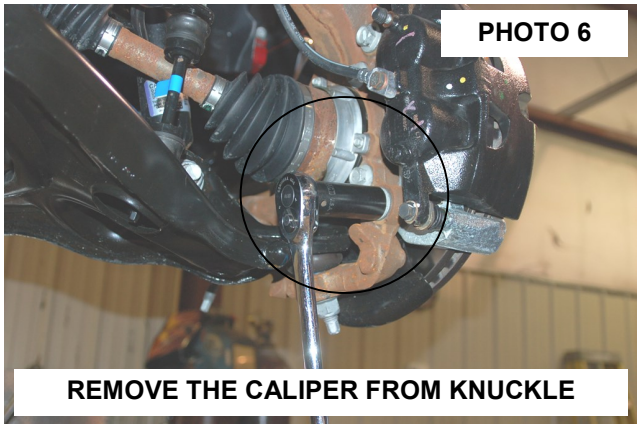
5. Remove tie-rod end using a 21mm wrench. Using a hammer hit the side of the knuckle to pop tie-rod out. **Photo 3.**
6. Remove the ABS and brake line bracket from the knuckle using a 8mm wrench for the ABS wire and a 10mm wrench for the brake line bracket. Retain hardware for reuse. **See Photo 4.**



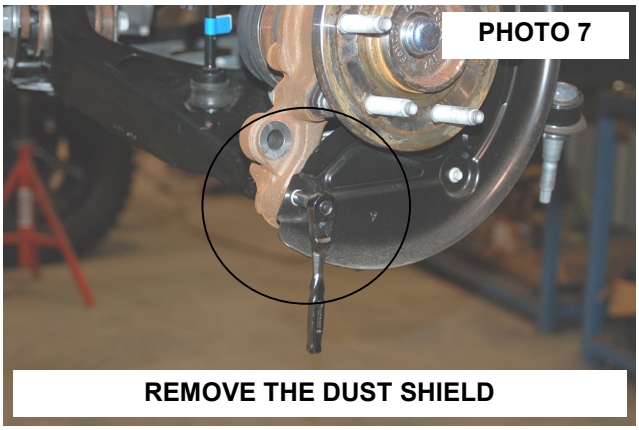


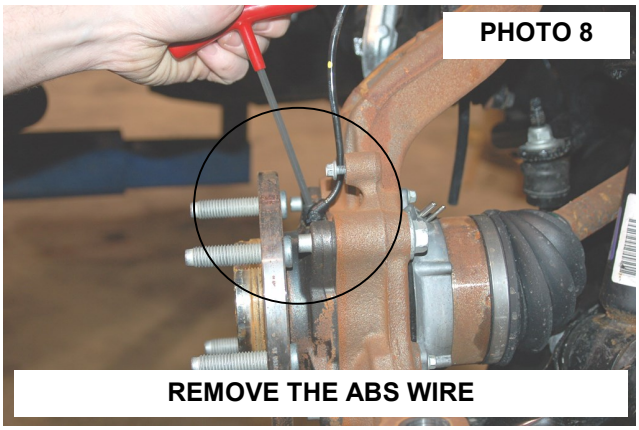
7. Remove the vacuum line from the hub. **See Photo 5.**
8. Using a 19mm socket & 21mm wrench, remove brake caliper as shown in **Photo 6**. Hang caliper out of way. Do not let caliper hang by brake hose as this will damage hose. Retain hardware for reuse. Remove rotor.



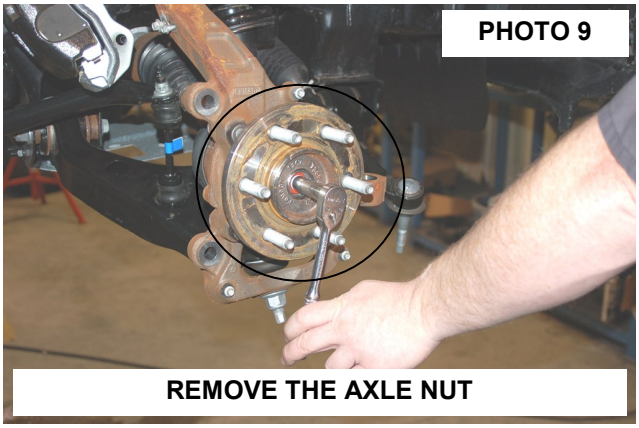


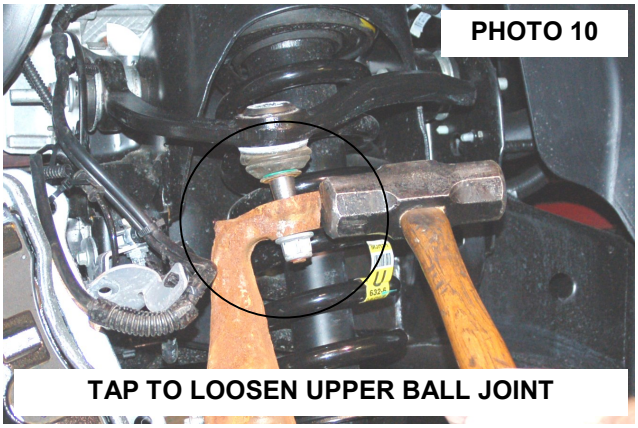
9. Remove the dust shield using a 8mm socket and dust cap. **See Photo 7.**
10. Remove the ABS wire from the bearing assembly using a 5mm allen wrench. **See Photo 8.**





11. Remove the axle nut using a 13mm socket. Retain hardware for reuse. **See Photo 9.**
12. Loosen the upper ball joint nut using a 21mm wrench. Tap lightly with a hammer to release ball joint from knuckle. **See Photo 10.**

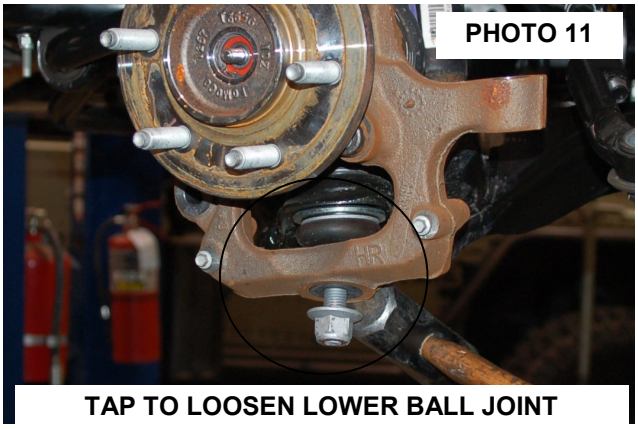


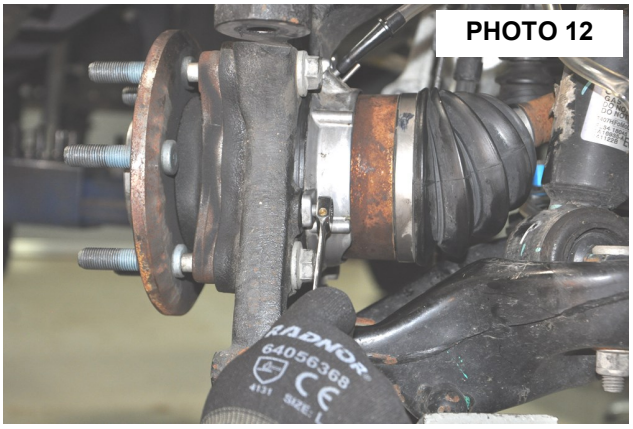


13. Loosen the lower ball joint using a 24mm wrench. Tap lightly with a hammer to release ball joint from knuckle. **See Photo 11.**
14. Remove the upper and lower ball joint nuts and remove the knuckle from the vehicle.

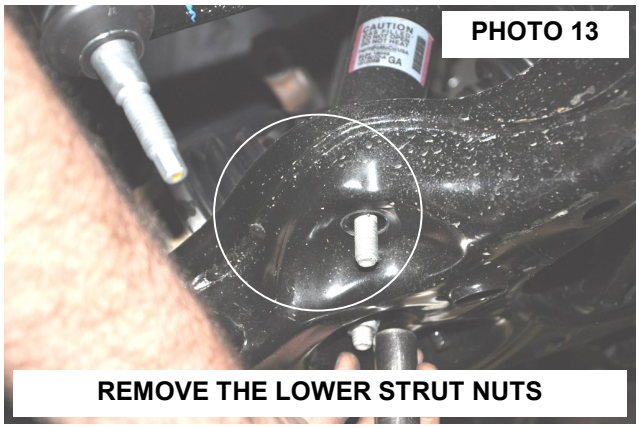
****Note** Use caution when removing the CV axle from the knuckle. Damage to CV actuator seal will affect 4wd operation.**

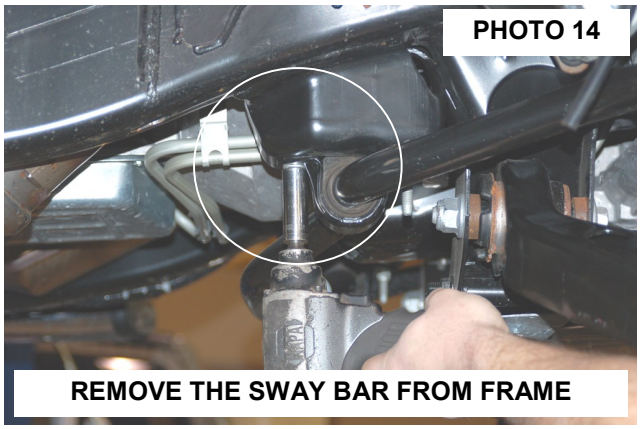
15. Using a 8mm wrench, remove the (3) bolts securing the actuator to the knuckle. **See Photo 12.**



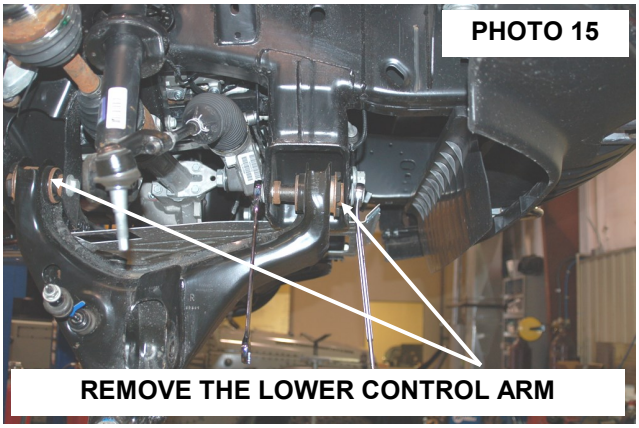


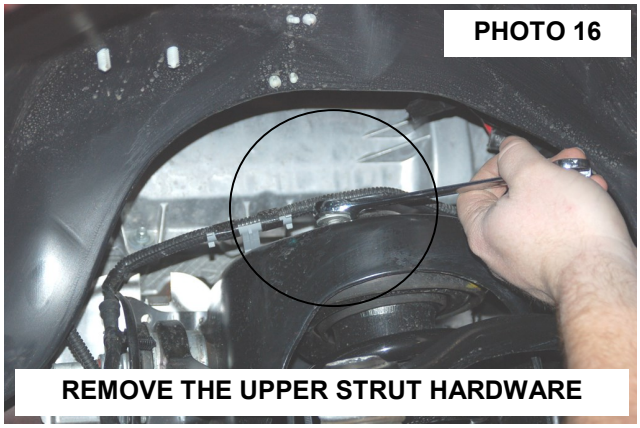
17. Remove the lower strut nuts using a 18mm socket. **See Photo 13.** Retain hardware for reuse.
18. Remove the sway bar from the frame mount using a 15mm socket. *Please note the position that the sway bar is installed from the factory to make sure it is reinstalled correctly.* Retain hardware for reuse. **See Photo 14.**



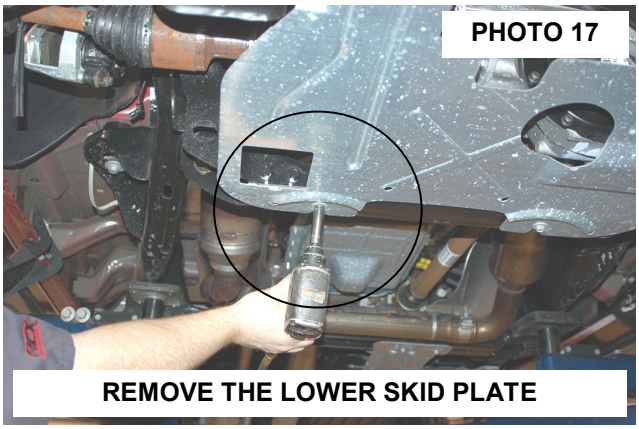


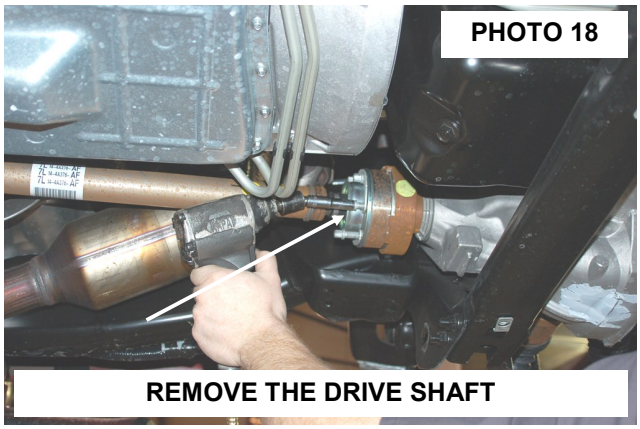
19. Remove the lower control arm using a 21mm and 1-1/16" wrench. Retain hardware for reuse. **See Photo 15.**
20. Remove the strut from the upper mount using a 15mm socket / wrench. Retain hardware for reuse. **See Photo 16.**



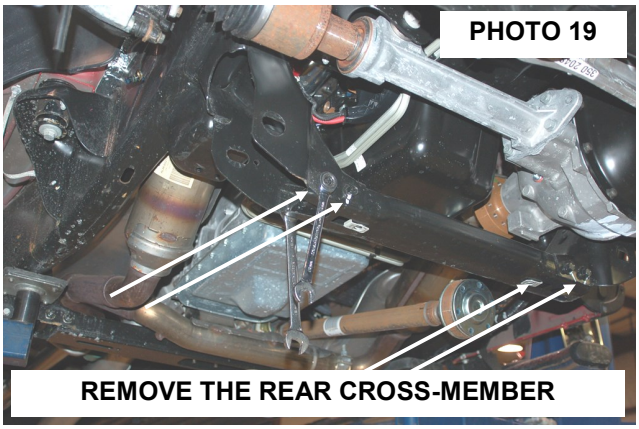


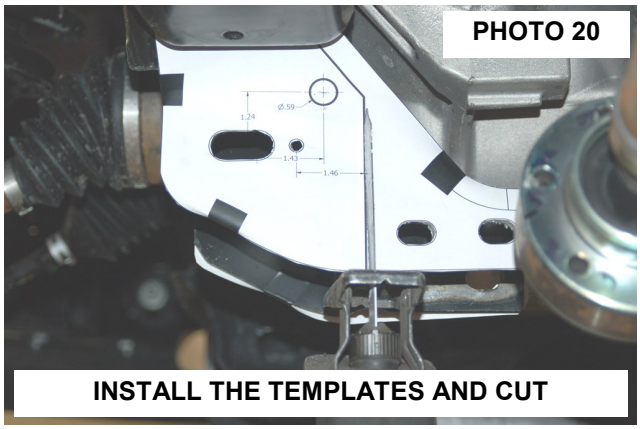
21. Remove the lower skid plate by removing the **4 bolts** using a 13mm socket. **See Photo 17.**
22. Remove the driveshaft from the front differential using a 10mm socket. **See Photo 18.** Secure driveshaft out of the way.



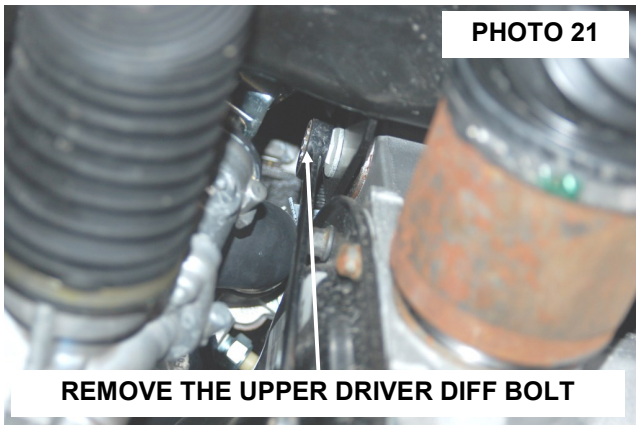


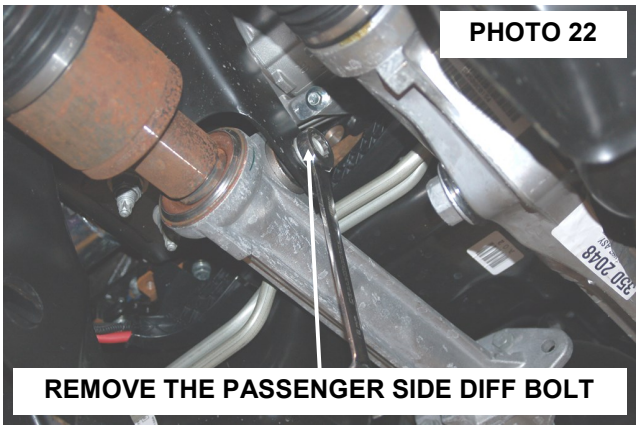
23. Remove the stock rear cross-member using a 15mm & 18mm socket. Retain hardware for reuse. **See Photo 19.**
24. Tape supplied cutting template on front and back side of the driver side lower cross-member mount. Using template as a guide, trim cross-member mount to allow the differential to be removed**. See Photo 20.**



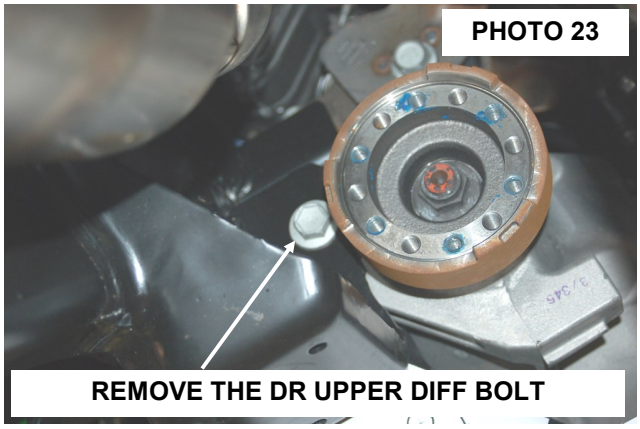


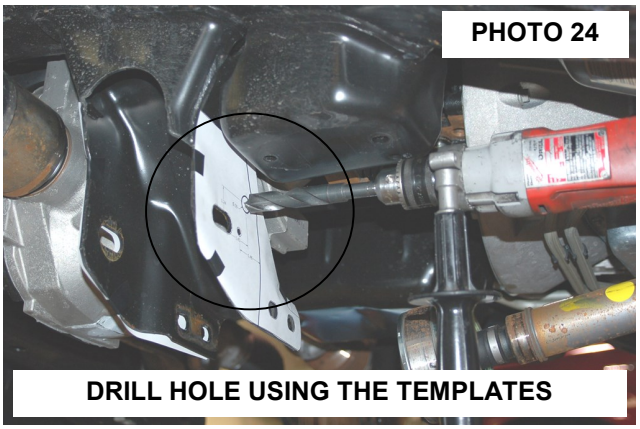
25. Remove the differential vent tube from the differential**.**
26. Support the differential using a floor jack and remove the upper driver side differential bolt using a 18mm wrench. Retain hardware for reuse. **See Photo 21.**
27. Remove the passenger side differential bolt using a 18 & 21mm wrench. Retain hardware for reuse. **See Photo 22.**



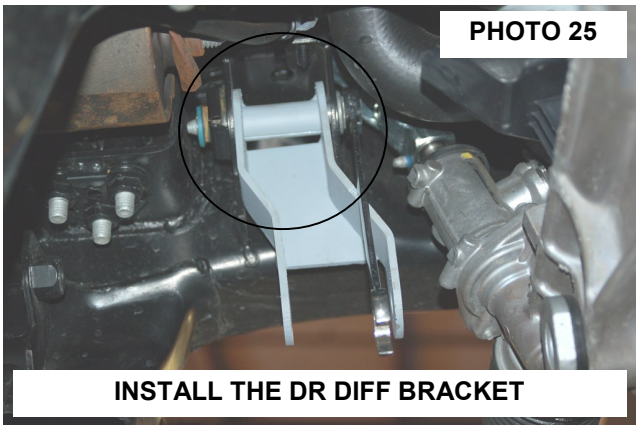


28. Remove the lower rear driver side differential bolt using a 21mm socket / wrench. Lower and remove the differential from the vehicle. **See Photo 23.**
29. Complete the trimming of the frame on the driver side using the template and drill a pilot hole in the center using 1/4” drill bit. Finish the hole shown in **Photo 24** using a 5/8” drill bit.

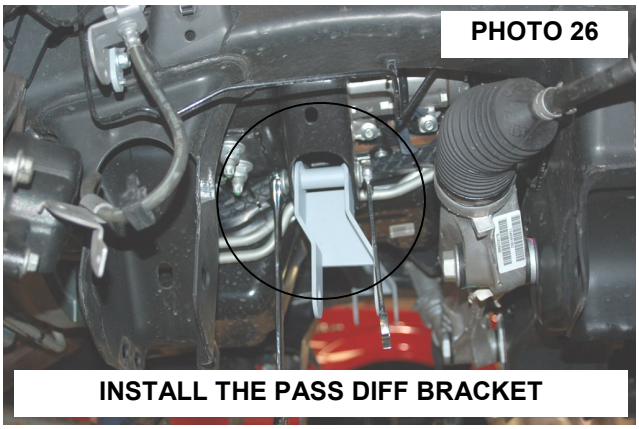




30. Install the upper differential drop bracket on the driver side using the stock hardware. **See Photo 25.** Do not tighten at this time.
31. Install the passenger differential bracket using the stock hardware. **Photo 26.** Do not tighten at this time.

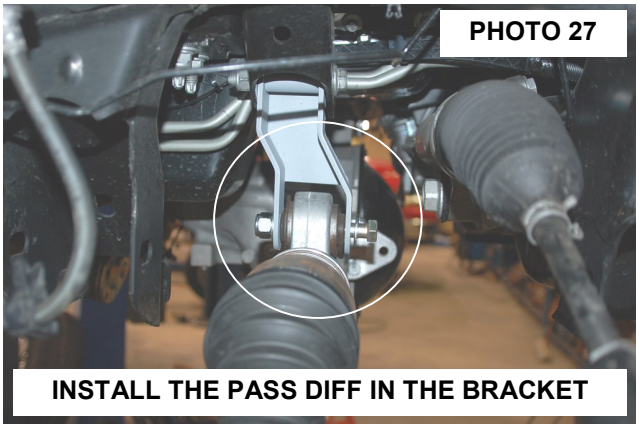


INSTALL THE DR DIFF BRACKET

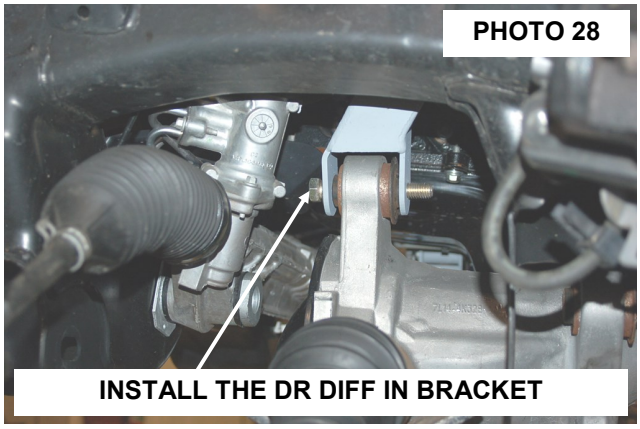


INSTALL THE PASS DIFF BRACKET

32. Install the differential in the new brackets with the supplied hardware. Install the 9/16” x 4” bolt, washers & nut in the in the passenger side mount. **See Photo 27.**
33. Swing the differential up to the drive and install the 9/16” x 4” bolt, washers and nut ***from the front to rear***. **NOTE: The differential mounts will need to be loose to push the differential to the passenger side in order to clear the rack and pinion and install the bolt. See Photo 28.**

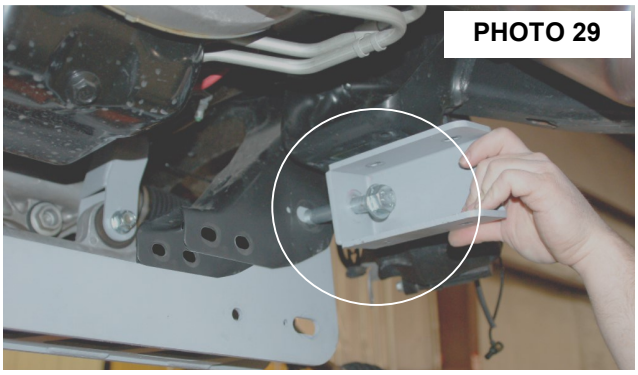


INSTALL THE PASS DIFF IN THE BRACKET

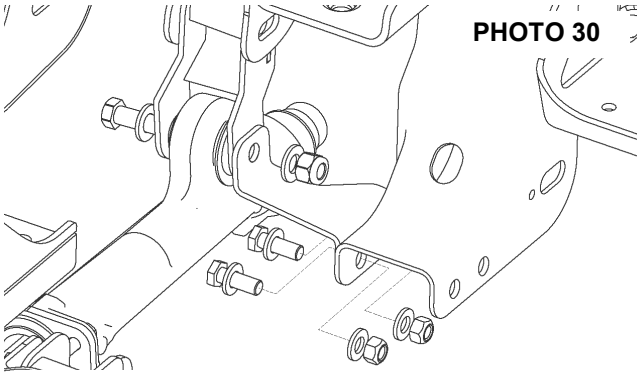


INSTALL THE DR DIFF IN BRACKET

34. Install the rear cross-member and sway bar mounts on the driver and passenger side as shown in **Photo 29**. The supplied 18mm x 160mm bolt will install through the sway bar bracket and rear cross-member, securing it to the stock location. Do not tighten at this time.
35. Install the passenger side differential brace as shown in **Photo 30** using the supplied 12mm hardware in 1557BAG15. Do not tighten at this time.

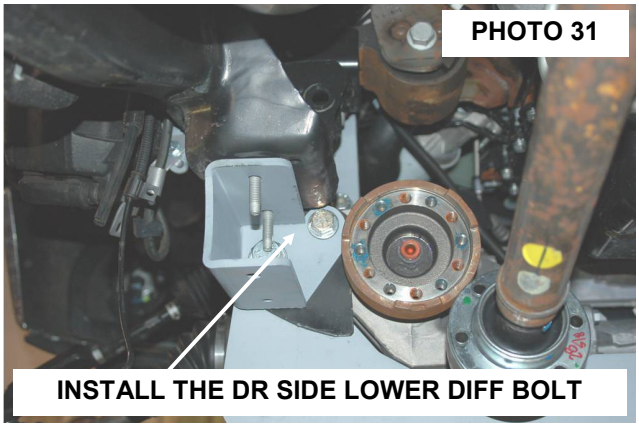


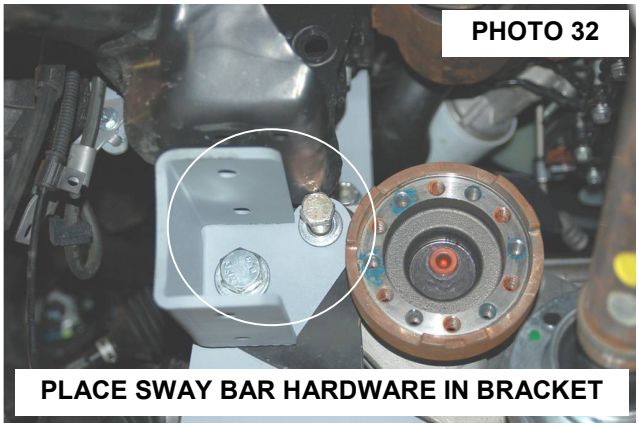
INSTALL RR CROSSMEMBER /SWAY BAR BRKTS



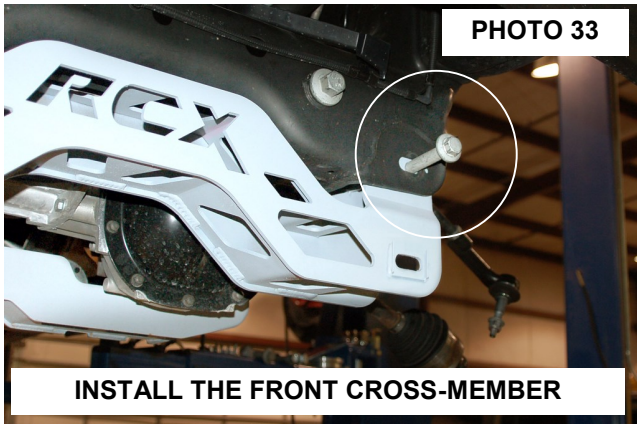
INSTALL THE PASS SIDE DIFF BRACE

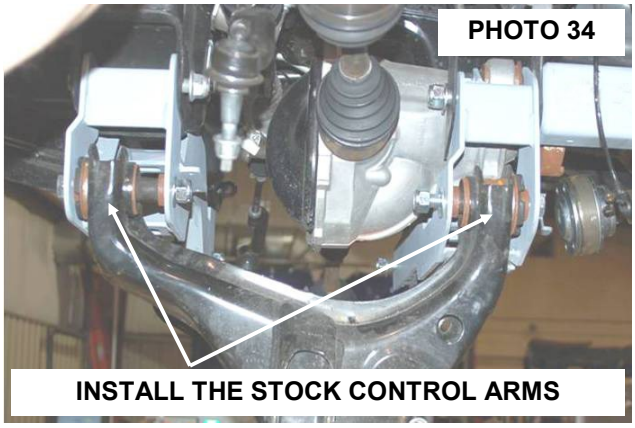
36. Install the supplied 9/16” x 4 1/2” rear differential bolt through the sway bar mount and new differential mount. **See Photo 31**. Do not tighten at this time.
37. Reinstall the stock sway bar flag bolts in the new sway bar drop bracket to keep the bracket aligned while tightening the cross-member bolts. **See Photo 32.**



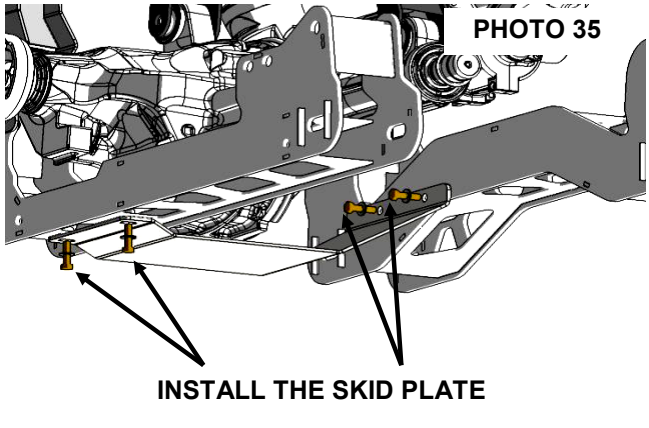


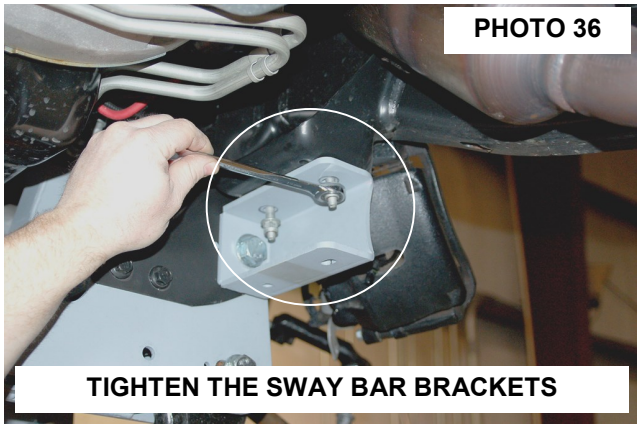
38. At this time tighten all diff bolts using 18mm socket / wrench for the upper diff bolts and a 21mm & 22mm socket / wrench for the new supplied lower diff bolts. Also tighten the passenger side diff brace hardware using a 15mm & 18mm socket /wrench.
39. Reinstall the vent tube on the differential.
40. Install the front cross-member using the factory hardware. **See Photo 33**. Do not tighten at this time.
41. Install the lower control arms using the supplied 18mm x 160mm cam bolts, washers and nuts. **See Photo 34**.Do not tighten at this time.



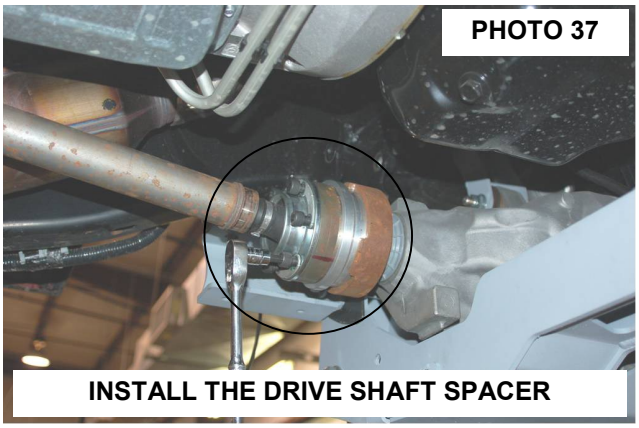


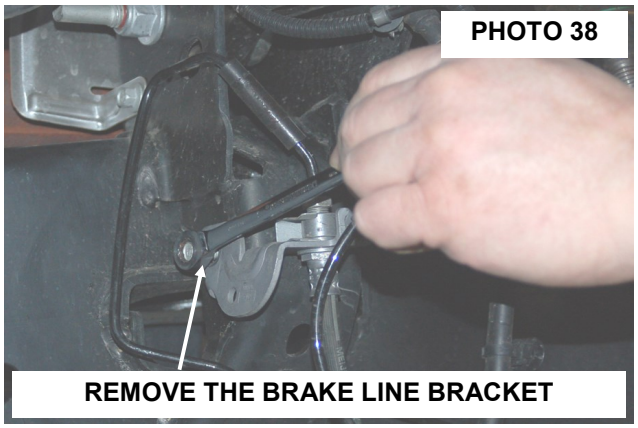
42. Install the new skid plate in the front and rear cross-members threaded holes using the supplied 3/8” x 1” bolts, washers. **See Photo 35.** Tighten using a 9/16” socket.
43. Tighten all upper cross-member bolts using a 21mm, 1 1/16” socket and 1 1/16” wrench.
44. Tighten the sway bar drop mounts to the frame using the factory hardware with a 15mm socket. **See Photo 36.**



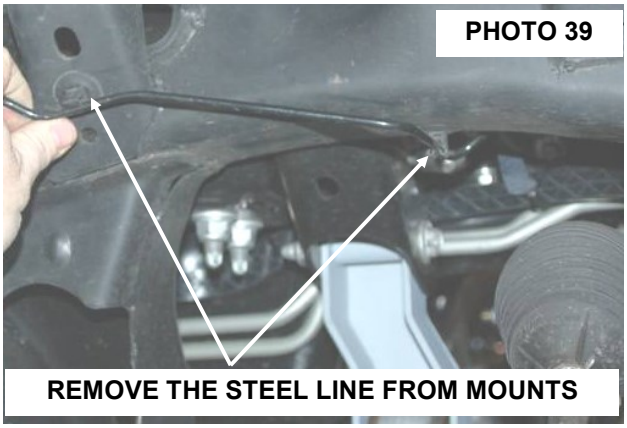


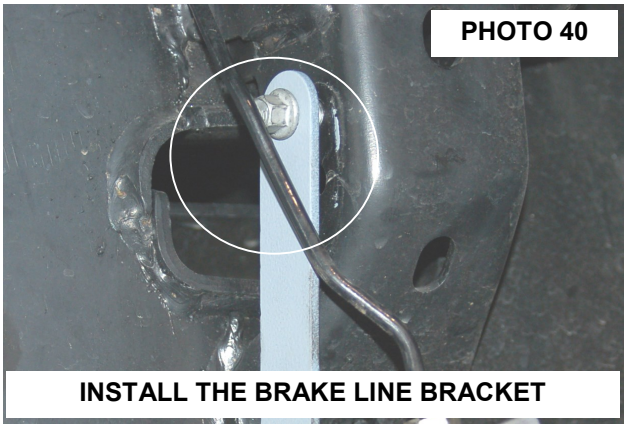
45. Install the drive shaft spacer with supplied 10mm x 80mm hardware. **See Photo 37**. Tighten using a 8mm allen wrench**.**
46. Using a 10mm wrench remove the brake line bracket from the driver and pass side frame. **See Photo 38.**



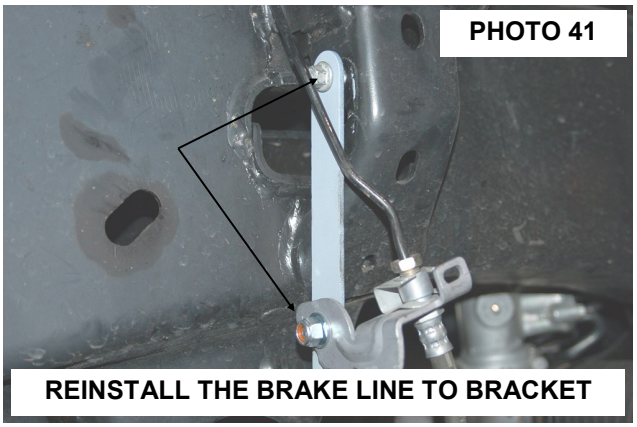


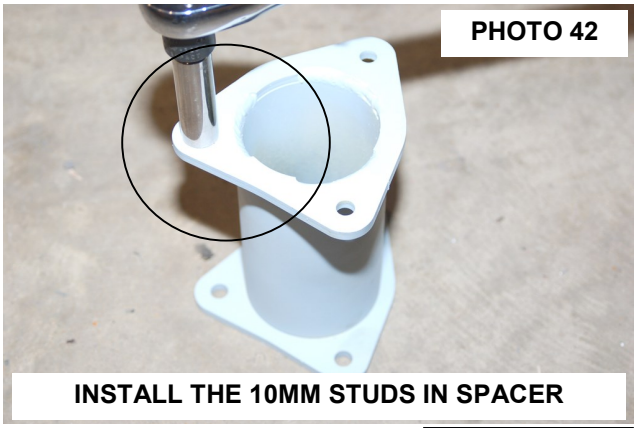
47. On the passenger side remove the brake line from the two factory clips. **See Photo 39.**
48. Install the new brake line bracket on the driver and passenger side with the stock hardware. **See Photo 40.**





49. Install the factory passenger side brake line in the new bracket using the supplied 5/16’ x 3/4” bolt, washer and nuts. **See Photo 41.**
50. On the driver side, pull slightly on the brake line to allow the line to be installed on the new bracket. Secure the brake line to the new bracket with the supplied 5/16” x 3/4” bolt, washers and nut.
51. Using a 13mm socket / wrench, tighten the supplied brake line hardware and 10mm for the stock hardware.
52. **If installing the Rough Country lifted struts or Vertex coilovers refer to the instructions included with the strut and skip to step 58.**
53. Install the supplied 10mm studs in the strut spacers with a 17mm wrench. Use the supplied 10mm hex nut to pull the studs into the spacer. **Do not use an impact to install studs. See Photo 42**.





54. Using the stock hardware, install the strut spacers on the struts. Tighten using a 15mm socket. **See Photo 43.**
55. Install the strut with strut spacers installed in the stock upper mount. Secure with supplied 10mm flange lock nuts. **See Photo 44.** Do not tighten at this time.

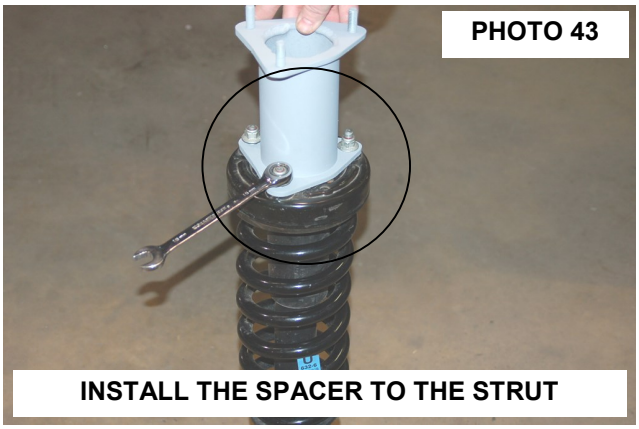


PHOTO 43
INSTALL THE SPACER TO THE STRUT

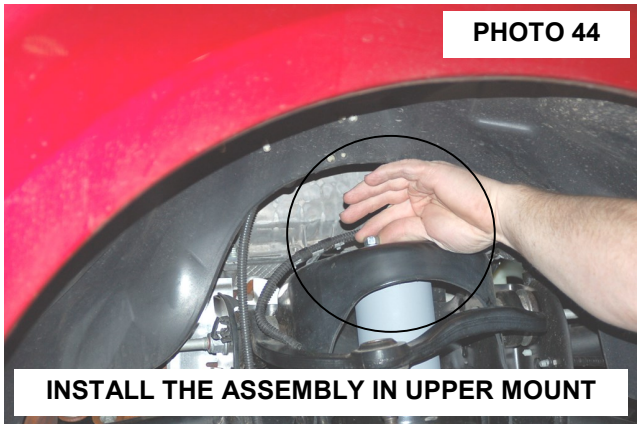


PHOTO 44
INSTALL THE ASSEMBLY IN UPPER MOUNT

56. Install the lower strut in the lower control arm using the factory hardware. Tighten using a 30mm and 1-1/16" wrench.
57. Tighten upper strut mount hardware using a 17mm wrench.
58. Install the sway bar body on the sway bar links located on the lower control arms. Install nut to hold the sway bar in place but do not tighten at this time. **See Photo 45.**
59. Swing up the sway bar and install on the sway bar drop brackets using the supplied 3/8" x 1" bolts, washers and nuts. Tighten using a 9/16" on the sway bar drop hardware and 18mm wrench on sway bar links on the lower control arms. **See Photo 46.**

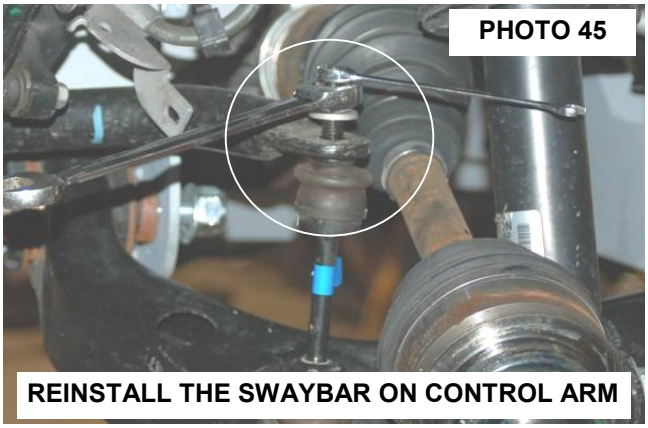


PHOTO 45
REINSTALL THE SWAYBAR ON CONTROL ARM

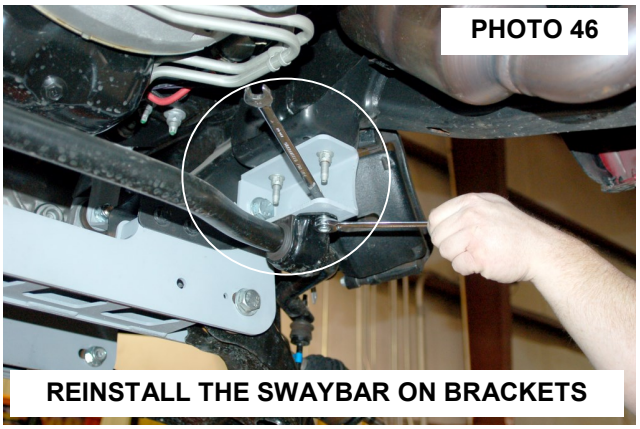


PHOTO 46
REINSTALL THE SWAYBAR ON BRACKETS

60. Depending on the brake caliper bolt size, the knuckle may need to be drilled. If the stock bolt is 16mm the caliper mounting location may need to be enlarged using a 41/64" drill bit**. On 2010 models, trial fit the stock caliper bolts to make sure the caliper needs to drilled before drilling. See Photo 47.**
61. Remove the stock bearing assembly from the stock knuckle using a 18mm socket. Install the bearing assembly using the stock hardware. Tighten using a 18mm socket. **See Photo 48.**

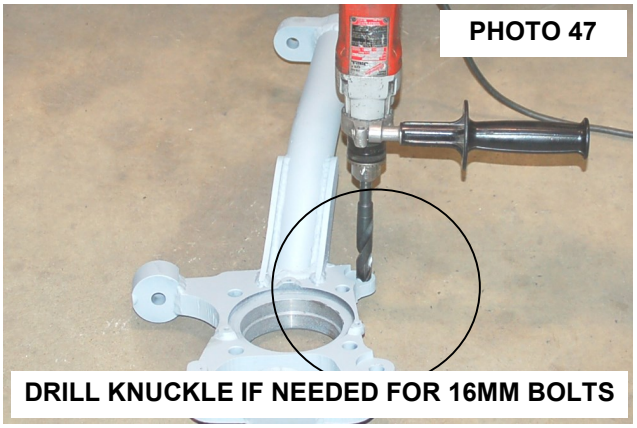


PHOTO 47
DRILL KNUCKLE IF NEEDED FOR 16MM BOLTS

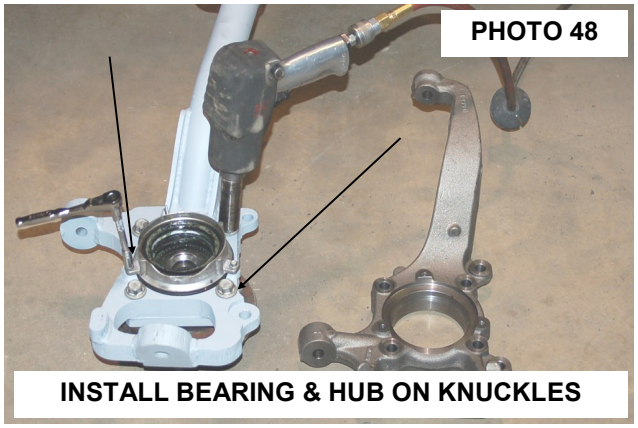


PHOTO 48
INSTALL BEARING & HUB ON KNUCKLES

⚠ NOTICE We recommend using OE instructions for disassembly and assembly of IWE actuator, the following instructions are for reference only.

62. **⚠ NOTICE** Make **sure the actuator splines line up to the splines on the CV shaft. See photo 49.**
63. Install CV shaft into the knuckle assembly. **See Photo 50.**
64. Using a floor jack, raise the lower control arm and connect the upper ball joint on the upper control arm to the spindle. Using a 21mm wrench, torque to manufacturer specs. If ball joint turns while tightening, use a 3/8" wrench to hold the ball joint.

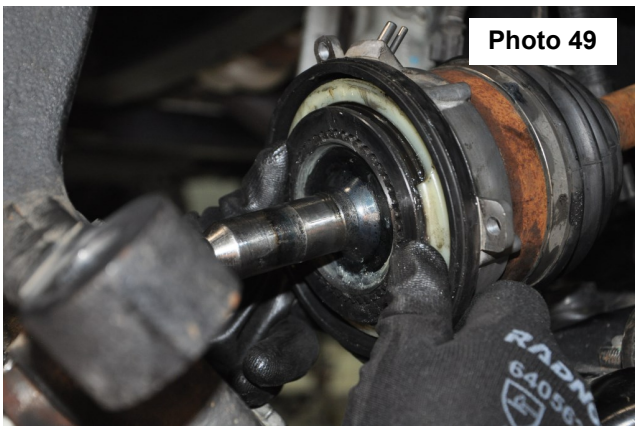


Photo 49

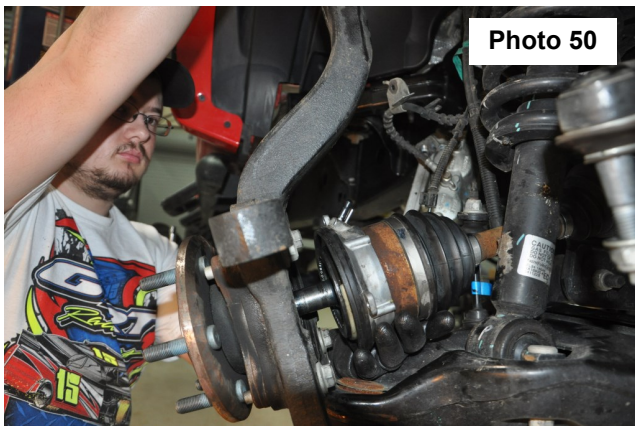


Photo 50

65. Reinstall the steering linkage nut using a 21mm wrench.
66. Using a hand vacuum pump, apply and hold 24inHG of vacuum to the actuator through the large port. **See Photos 51 and 52.**

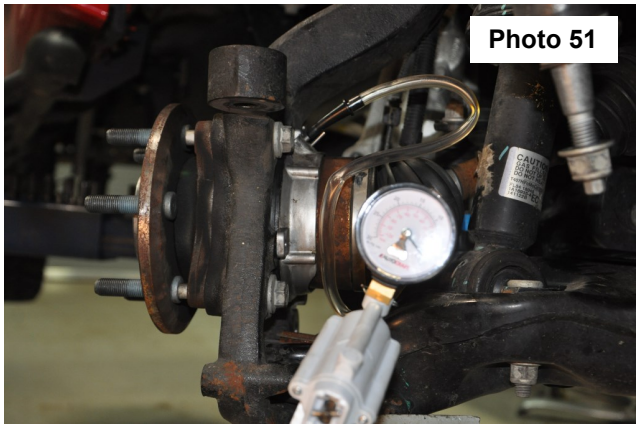


Photo 51

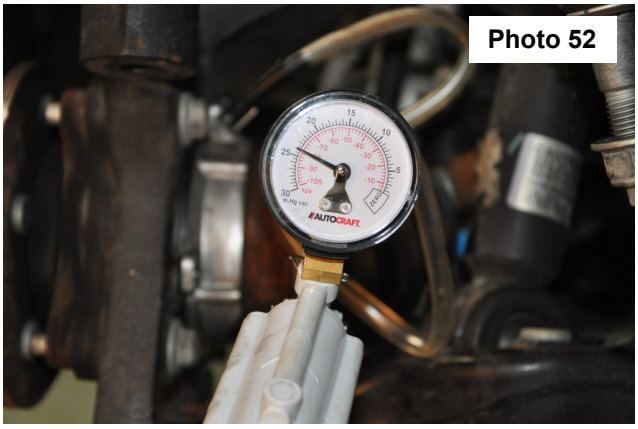


Photo 52

67. Install the (3) bolts securing the actuator to the knuckle and tighten using an 8mm wrench. **See Photo 53.**
68. **⚠ NOTICE** With vacuum still applied to actuator. Measure the depth of the CV shaft treads protruding through the hub bearing. If **minimum 15.5mm or .61"** is not achieved, rotate the hub to eliminate binding of the splines**. See Photo 54.**

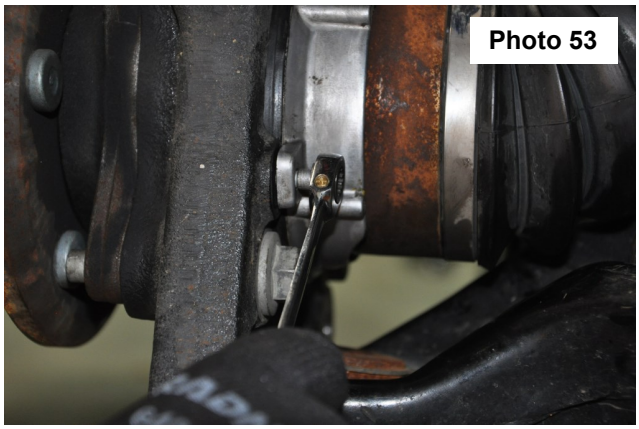


Photo 53

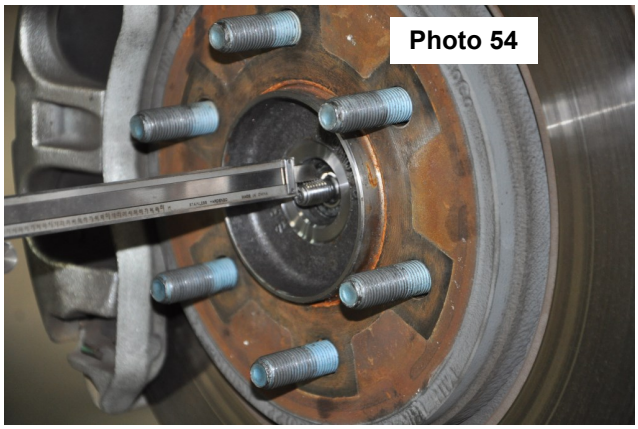
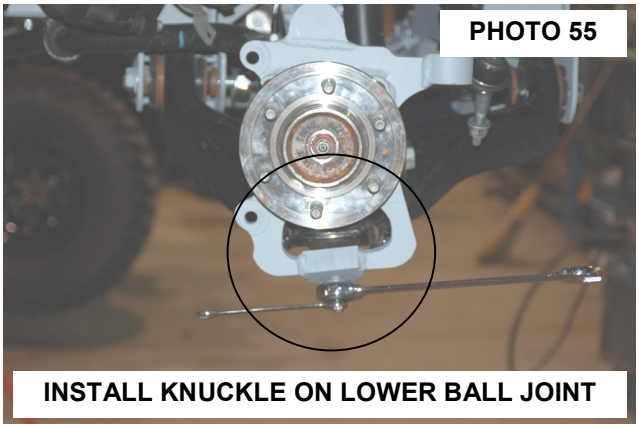
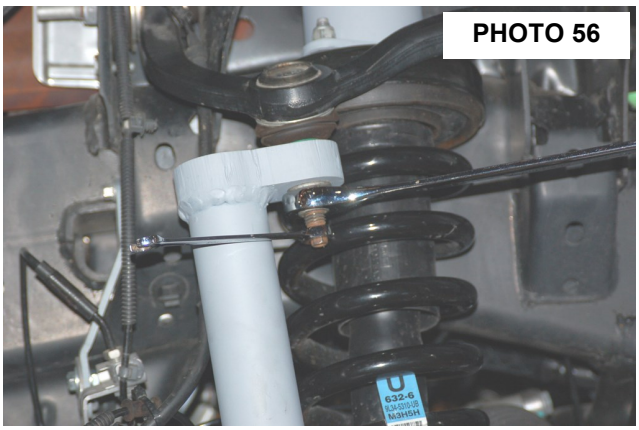


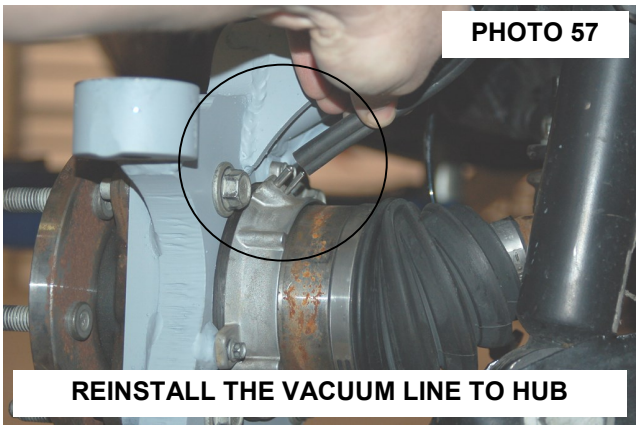
Photo 54

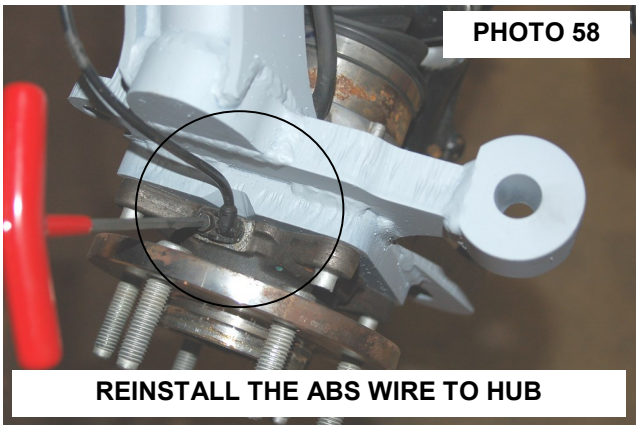
69. Install the new knuckles using the stock hardware on the lower ball joints, making sure the half shafts are installed in the bearing assembly. Tighten using 24mm and a 12mm wrench. **See Photo 55. Do not use air impact on the upper and lower ball joint, tighten with hand tools.**
70. Install the half shaft axle nut and **lightly tighten with HAND TOOL ONLY!!**
71. Install the knuckle on the upper ball joint with the stock hardware and tighten using a 21mm and a 10mm wrench. **Do not use air impact on the upper and lower ball joint, tighten with hand tools.**



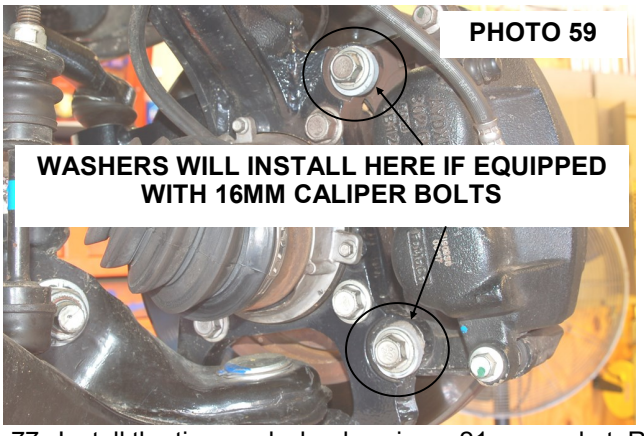


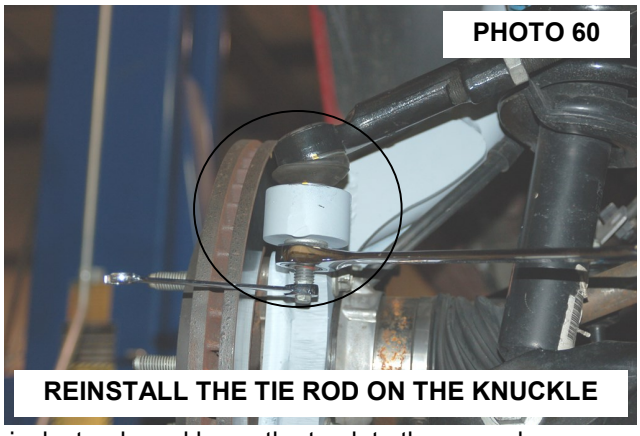
72. Reinstall the locking hub vacuum hose as shown in **Photo 57** on the hub mechanism and install the ABS wire on the bearing assembly using a 5mm allen wrench. **See Photo 58. NOTE: The factory dust shield will not be reused.**





73. Tighten the axle nut using a 13mm wrench and install the dust cap.
74. Install the rotor and caliper on the knuckle with the stock hardware using a 19mm or 21mm wrench. **On 2010 models with 16mm caliper hardware it will be necessary to use the qty 4, two per side 5/16" thick washers on the head of the caliper bolts. Failure to use these washers on the 16mm bolts will allow the caliper bolt to protrude on the rotor side and can cause clearance issues**. Tighten hardware. **See Photo 59.**
75. Make sure the vacuum hose and ABS wire are out of harms way. Using the supplied zip tie, secure the vacuum hose and ABS wire to the knuckle neck.
76. Install the tie rod end in the knuckle and tighten using a 21mm and 10mm wrench. **See Photo 60. Do not use air impact on the tie rod end, tighten with hand tools.**

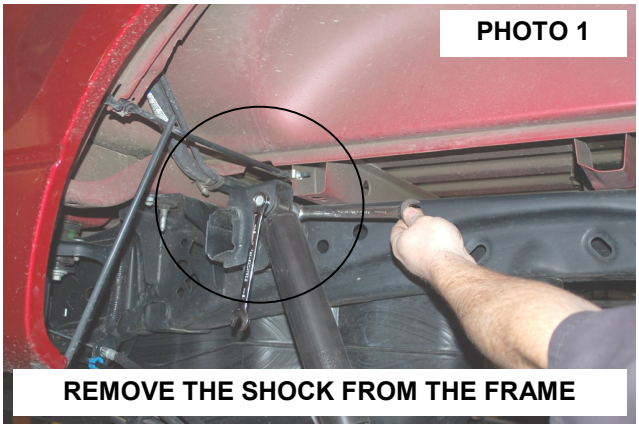




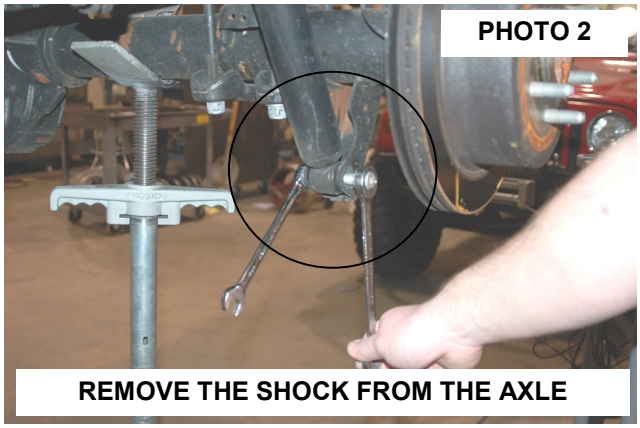
77. Install the tires and wheels using a 21mm socket. Remove the jack stands and lower the truck to the ground.

REAR INSTALLATION

1. Chock the front tires and jack the rear the rear end up. Put jack stand under the frame rail and lower truck onto jack stands.
2. Remove tires and wheels using a 21mm socket.
3. Remove rear shocks from the upper and lower mount using 18mm and a 15mm wrench. **See Photo 1 & 2.** Retain the stock hardware.

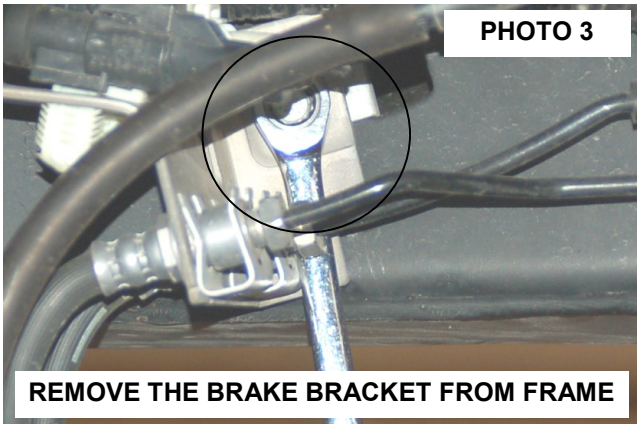


REMOVE THE SHOCK FROM THE FRAME

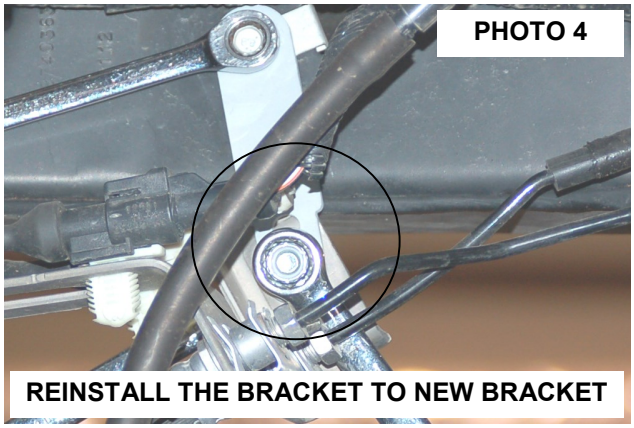


REMOVE THE SHOCK FROM THE AXLE

4. Using a 10mm wrench, remove the brake line assembly on the inner driver side frame rail. **See Photo 3.**
5. Install the brake line extension bracket on the frame using the stock hardware and tighten using a 10mm wrench. **See Photo 4.**
6. Install the brake line assembly to the new bracket using the supplied 3/8” x 1” bolt, washers and nut. Tighten using a 9/16” socket and wrench**. See Photo 4.**

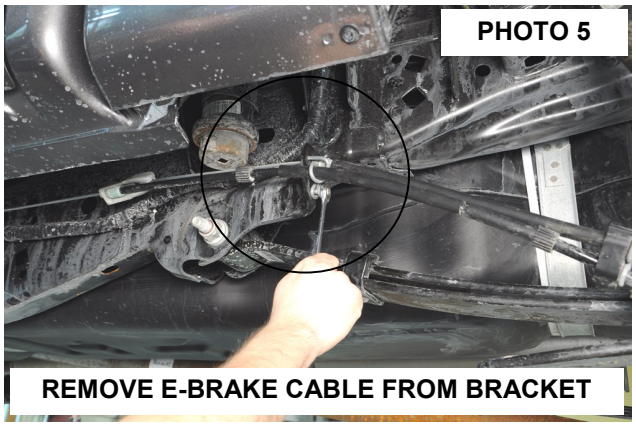


REMOVE THE BRAKE BRACKET FROM FRAME

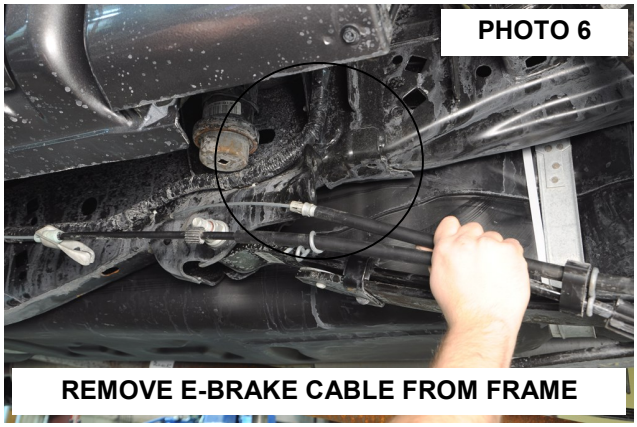


REINSTALL THE BRACKET TO NEW BRACKET

7. Separate the e-brake cable as shown on the drivers side and remove the e-brake cables from the frame mount as shown in **Photo 5 & Photo 6.**

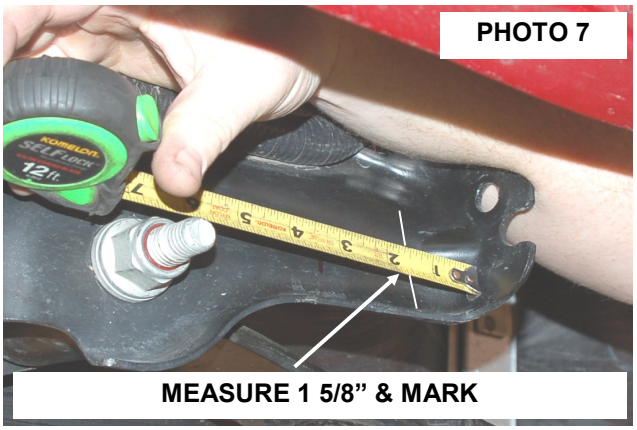


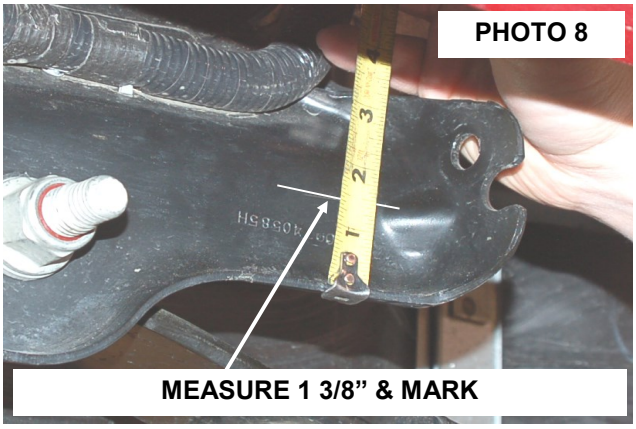
REMOVE E-BRAKE CABLE FROM BRACKET



REMOVE E-BRAKE CABLE FROM FRAME

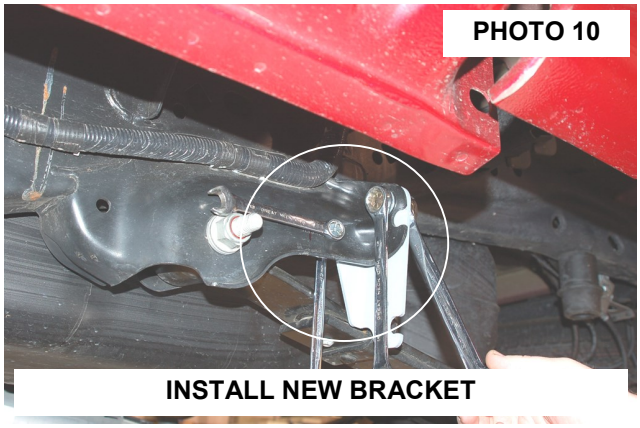
8. To install the new e-brake bracket measure from the rear measure 1 5/8” and from the bottom measure up 1 3/8” and mark hole to be drilled. **See Photo 7 & 8.**



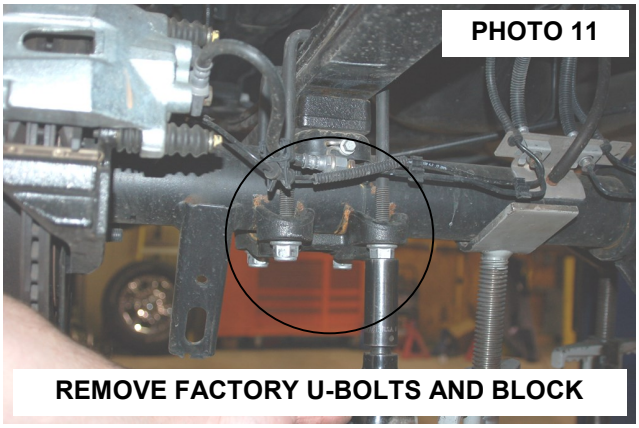


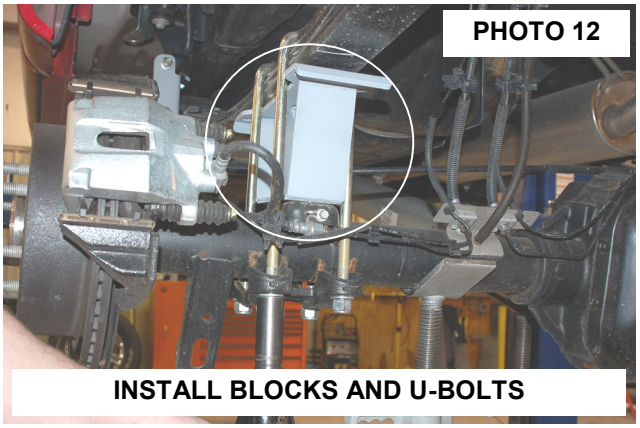
9. Drill hole using a 11/32” drill bit**. See Photo 9.**
10. Install the new bracket as shown with the supplied 7/16” x 1” bolt, washers, nut in the factory hole and 5/16” x 3/4” bolt, washer and nut in the drilled hole. **See Photo 10.** Tighten using a 19mm and 13mm socket / wrench.



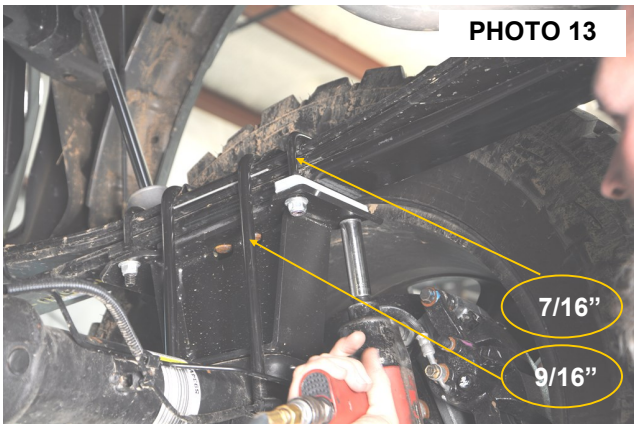


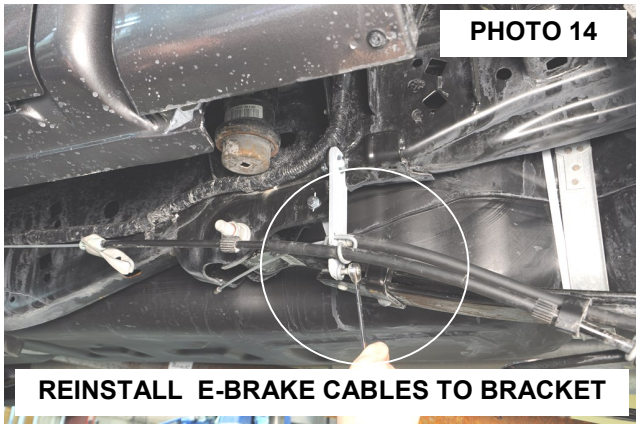
11. Using a jack support the rear end and remove U-bolts using a 21mm socket and remove the factory blocks. Retain factory block for the 4” kit. **See Photo 11.**
12. Install the supplied blocks on the block pin holes on the axle and raise the axle into place. **Taller end of the block to the rear. See Photo 12.**
13. Install the axle u-bolts and tighten using a 22mm socket.





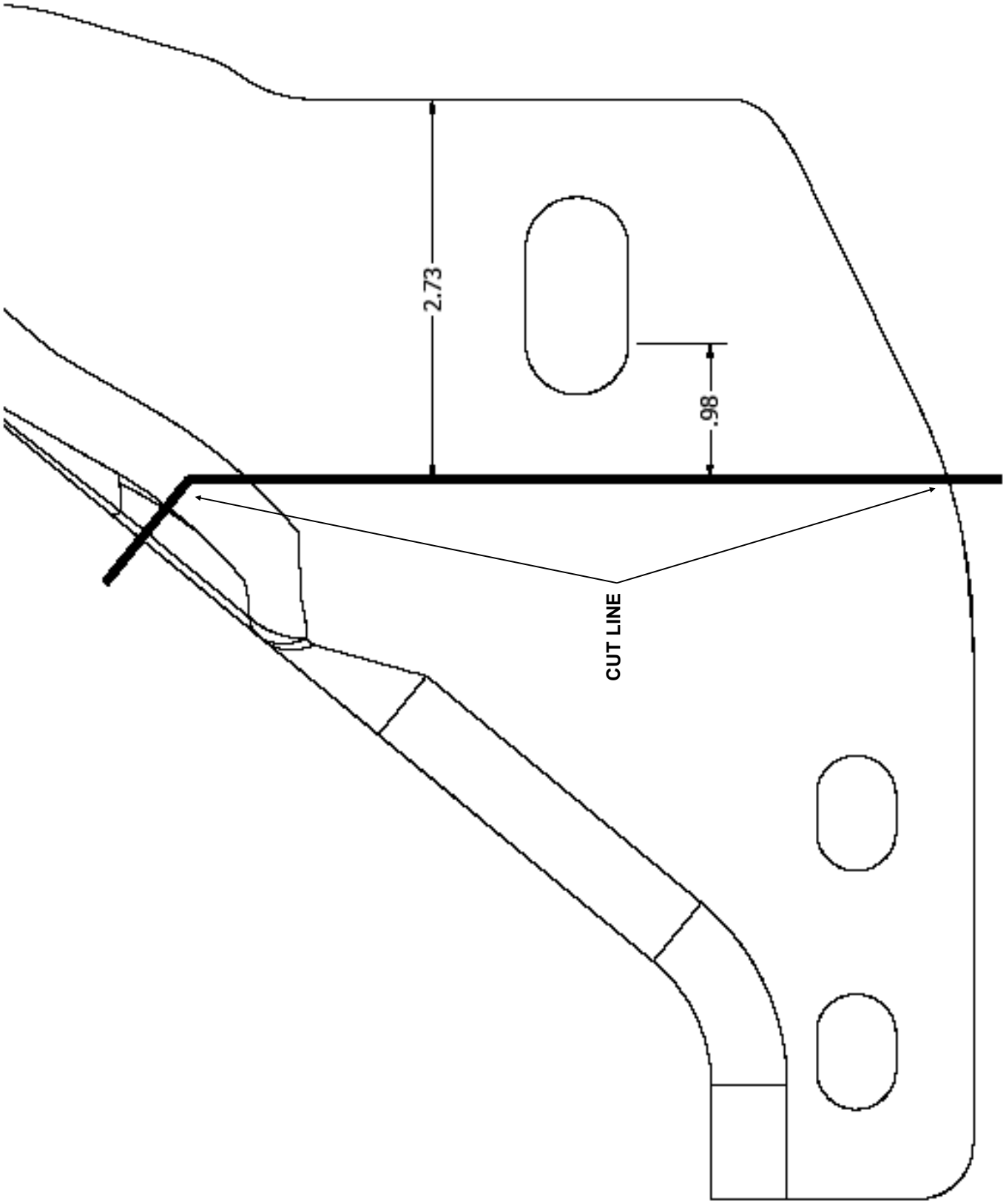
14. **6” Kits Only,** Install the upper leaf spring u-bolts over the leaf spring and into the blocks. Make sure to use the supplied block shims if needed to level the bottom surface of the leaf spring. Secure with supplied hardware and tighten using a 16mm socket. **See Photo 13.**
15. Install the new Rough Country shock absorbers in the upper and lower mounts using the stock hardware. Tighten using a 18 and 15mm wrench. **If installing V2 rear shocks or Vertex rear shocks, refer to installation instructions included with those shocks.**
16. Install the tire and wheels.
17. Raise up the rear of the vehicle and remove the jack stands. Lower the vehicle to the ground.
18. Install the e-brake cable in the new mount and reattach the e -brake cables on the frame. **See Photo 14.**



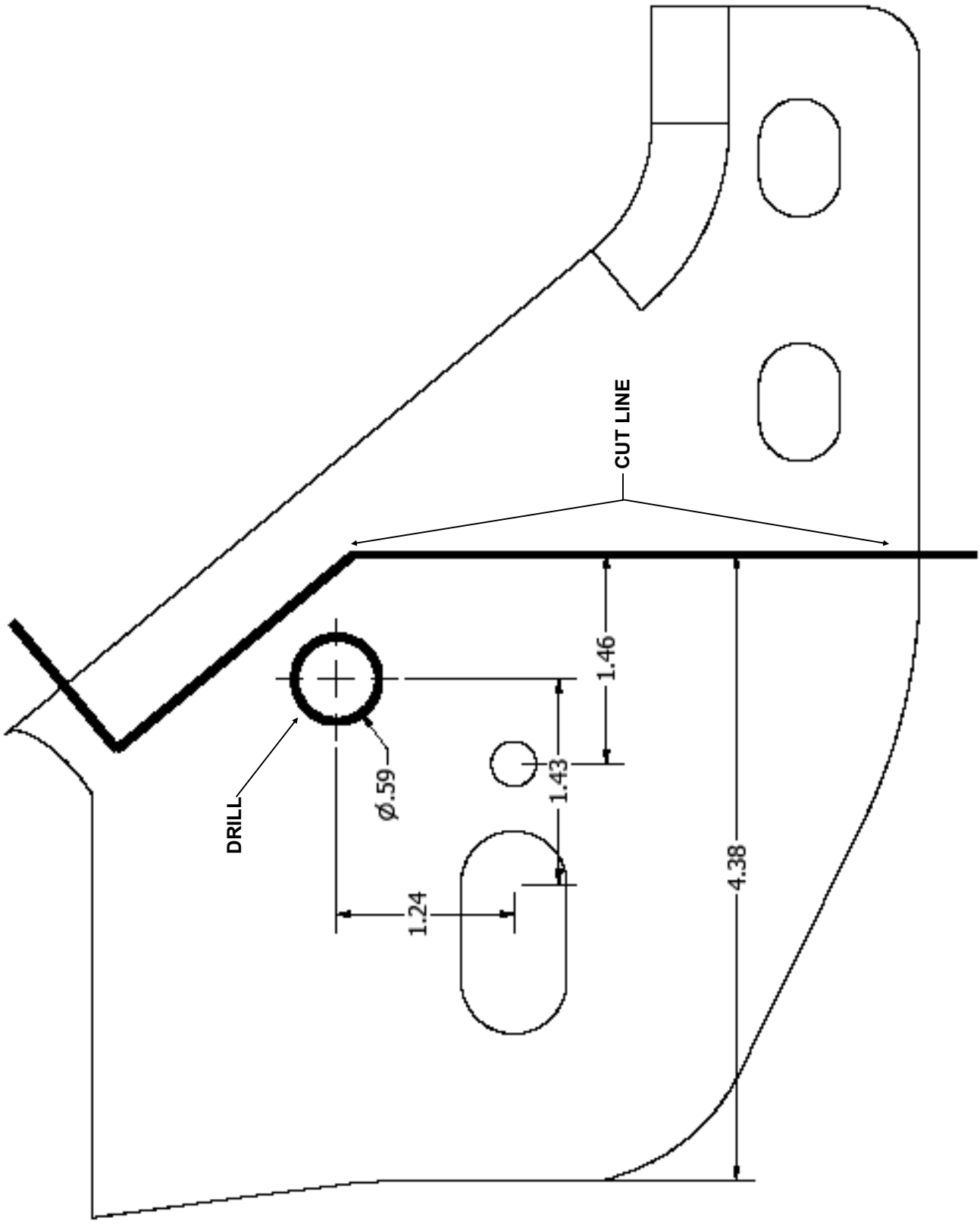


THANK YOU FOR CHOOSING ROUGH COUNTRY FOR YOUR SUSPENSION NEEDS

CUTTING / DRILLING TEMPLATE—FR SIDE OF DRIVER CROSS-MEMBER



CUTTING / DRILLING TEMPLATE—REAR OF DRIVER SIDE CROSS-MEMBER



POST INSTALLATION INSTRUCTIONS

1. Check all fasteners for proper torque. Check to ensure there is adequate clearance between all rotating, mobile, fixed and heated members. Check steering gear for interference and proper working order. Test brake system
2. Perform steering sweep. Check to ensure brake hoses have sufficient slack and will not contact rotating, mobile, or fixed members, adjust lines/brackets to eliminate interference and maintain proper working order. Failure to perform inspections may result in component failure
3. Readjust headlights to factory settings
4. Have vehicle aligned by a certified alignment professional.
5. Re-torque all nuts, bolts, and especially u-bolts after the first 100 miles, again after another 100 miles and then check periodically thereafter
6. All components must be retightened after 500 miles, and every three thousand miles after installation.

Rough Country Accessories

Hidden Winch Plate #1010



By purchasing any item sold by Rough Country, LLC, the buyer expressly warrants that he/she is in compliance with all applicable , State, and Local laws and regulations regarding the purchase, ownership, and use of the item. It shall be the buyers responsibility to comply with all Federal, State and Local laws governing the sales of any items listed, illustrated or sold. The buyer expressly agrees to indemnify and hold harmless Rough Country, LLC for all claims resulting directly or indirectly from the purchase, ownership, or use of the items.