2015 F-150 4"/5"/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

AWARNING 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.

A NOTICE 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 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 DEALER AND VEHICLE OWNER

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 vehicles dash. The decal should act as a constant reminder for whoever is operating the vehicle of its unique handling characteristics.

Tools Needed:

30mm wrench /socket

Torque Specs:

5mm Allen Wrench 8mm Allen Wrench 8mm wrench /socket 10mm wrench /socket 12mm Wrench	Floor Jack Jack stands Reciprocating Saw Hammer 9/16 werench /socket	Size 5/16+ 3/8+ 7/16+ 9/16+	Grade 5 15 ft/lbs 30 ft/lbs 45 ft/lbs 95 ft/lbs	Grade 8 20 ft/lbs 35 ft/lbs 60 ft/lbs 130 ft/lbs
13mm wrench / socket 15mm wrench /socket 16mm wrench /socket 18mm wrench /socket 19mm wrench /socket 21mm wrench /socket 22mm wrench /socket	1 1/16+Wrench Drill 1/4+Drill Bit 5/8+Drill Bit 11/32+Drill Bit 1.25+Hole Saw	10MM 18MM	Class 8.8 32ft/lbs 170ft/lbs	Class 10.9 45ft/lbs 240ft/lbs



KIT CONTENTS

Kit Includes:

1557Box1:

1-Driver Side Knuckle (A)

1557Box2:

1-Pass Side Knuckles (B)

1557Box3:

1-Fr Cross-Member (C)

1-Rr Cross-Member (D)

1557Box4:

2-Dr & Pass Diff Bracket (E)

1-Pass Side Diff Brace Bracket (F)

1-Dr Side Sway Bar Bracket (G)

1-Pass Side Sway Bar Bracket (H)

2-Fr Brake Line Brackets (I)

1-Front Lower Skid Plate (J)

1-Rear E-Brake Bracket (K)

1-Front Driveshaft Spacer (L)

1-Rear Brake Line Bracket (M)

1557Box5 (6+), 1556Box1 (5+), or

1555Box1 (4+)

2-Rear Blocks (N)

2-Rear RCX 2.2 Shocks (O)

2-Fr Strut Spacers (P)

4-Rear U-bolts (Q)

2-Rear Bump Stop Brackets

1557Bag1 Containing:

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

Bag1 Continued:

For Rr / RrCross-Member:

2-18mm x 150mm Bolts

4-18mm Flat Washers

2-18mm Lock Nuts

For Fr Drivers Side Diff Mount:

1-9/16" x 4" Bolt

2-9/16" Flat Washers

1-9/16" Lock Nut

1557Bag2 Containing:

For Front Lower Control Arms:

4-18mm x 160mm Cam Bolts

4-18mm Lock Nuts

For Front Skid Plate:

4-3/8" x 1" Bolt

4-3/8" Flat Washers

For Front Driveshaft:

6-10mm x 85mm 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:

4-7/16" x 1' Bolts

8-7/16' Flat Washers

4-Lock Nuts

For Diff Tube:

1-Diff Tube Ext.

1-Tube Coupler

3/8" Stud Bag Containing:

For Front Strut Spacers:

6-10mm Studs

6-10mm Lock Washer

6-10mm Hex Nuts

1598Bag3 Containing:

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

For Rear Blocks:

4-9/16" Axle U-Bolts

8-9/16" Nuts

8-9/16" Flat Washers 4-3/8" Spring U-Bolts

8-3/8" Nuts

8-3/8" Flat Washers

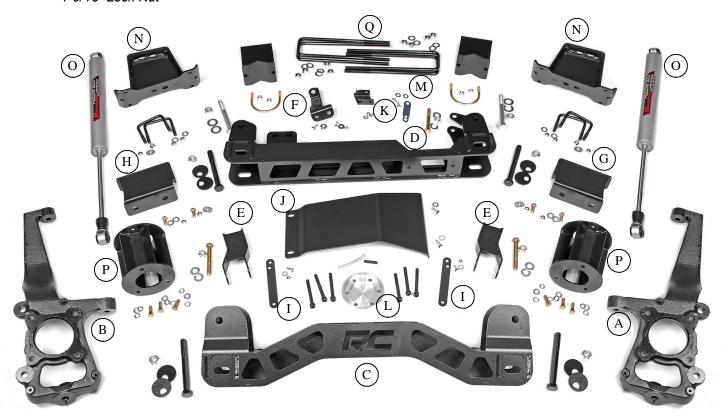
U-Bolt Bag For Anti-Wrap

Blocks:

4-7/16" x 3" U-Bolts

8-7/16" Nuts

8-7/16" Washers



INSTALLATION INSTRUCTIONS

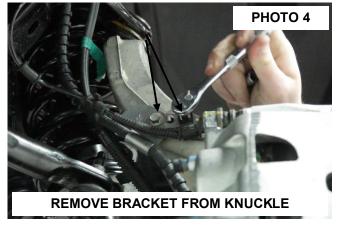
- 1. Chock the rear wheels and jack up the front of the vehicle.
- 2. Place jack stands under the frame rails and lower onto jack stands.
- 3. Remove the wheels/tires using a 21mm socket.
- 4. Remove the skid plate with a 13mm socket. See Photo 1.
- 5. Remove the EPAS (Electronic Power Assist Steering) Plugs as shown located on the steering assembly by the front differential. See Photo 2. This must be done BEFORE installation is started.





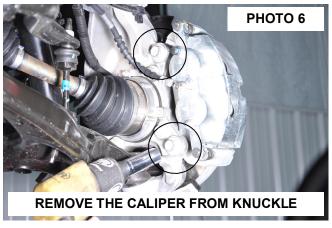
- 6. Remove tie-rod end using a 21mm wrench. Using the appropriate tool remove the tie-rod from the knuckle. Photo 3.
- 7. Remove the ABS and brake line bracket from the knuckle using a 8mm wrench for the ABS wire and a 10mm wrench for the brake line bracket. Retain hardware for reuse. **See Photo 4.**





- 8. Remove the vacuum line from the hub. See Photo 5.
- 9. 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.

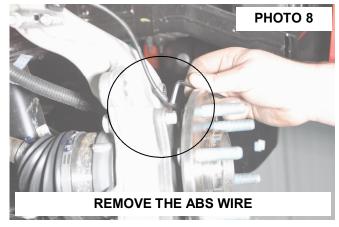






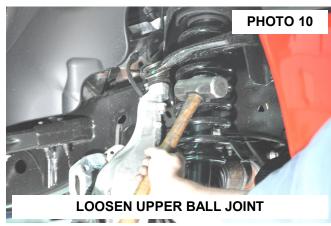
- 10. Remove the dust shield using a 8mm socket and dust cap. See Photo 7.
- 11. Remove the ABS wire from the bearing assembly using a 5mm allen wrench. See Photo 8.





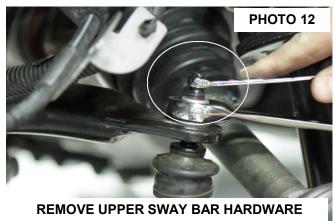
- 12. Remove the axle nut using a 15mm socket. Retain hardware for reuse. See Photo 9.
- 13. Loosen the upper ball joint nut using a 21mm wrench. Use the appropriate tool to release ball joint from knuckle. **See Photo 10.**





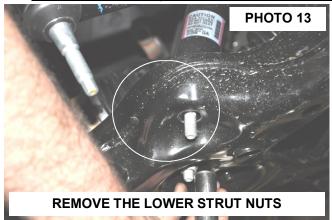
- 14. Loosen the lower ball joint using a 24mm wrench. Use the appropriate tool to release ball joint from knuckle. **See Photo 11.**
- 15. Remove the upper and lower ball joint nuts and remove the knuckle from the vehicle.
- 16. Remove the sway bar links from the sway bar using a 8mm and 19mm wrench. Retain hardware for reuse. **See Photo 12.**





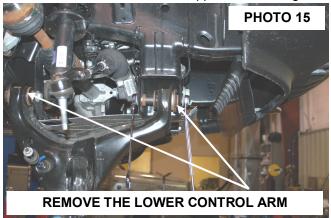


- 17. Remove the lower strut nuts using a 18mm socket. See Photo 13. Retain hardware for reuse.
- 18. Remove the sway bar from the frame mount using a 15mm socket. <u>Please note the position that the sway bar is installed from the factory to make sure it is reinstalled correctly.</u> Retain hardware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



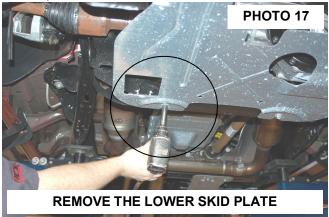


- 19. Remove the lower control arm using a 21mm and 1-1/16+wrench. Retain hardware for reuse. See Photo 15.
- 20. Remove the strut from the upper mount using a 15mm socket / wrench. Retain hardware for reuse. See Photo 16.





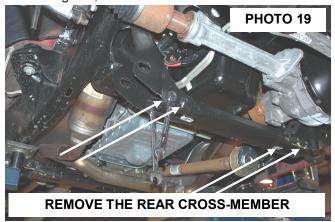
- 21. Remove the lower skid plate if equipped by removing the 4 bolts using a 13mm socket. See Photo 17.
- 22. Remove the driveshaft from the front differential using a 10mm socket. **See Photo 18.** Secure driveshaft out of the way.

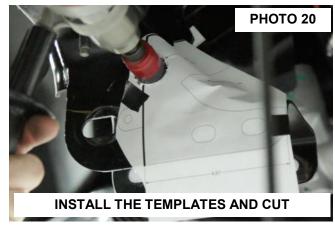




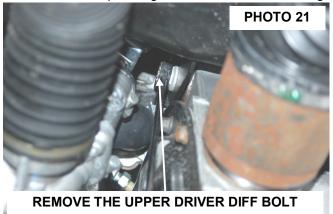


- 23. Remove the stock rear cross-member using a 15mm & 18mm socket. Retain hardware for reuse. See Photo 19.
- 24. Tape supplied cutting template on front and back side of the driver side lower cross-member mount. Using template as a guide, trim cross-member mount to allow the differential to be removed.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



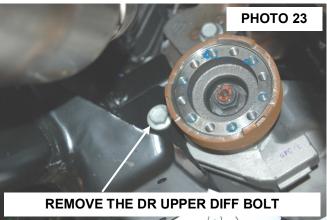


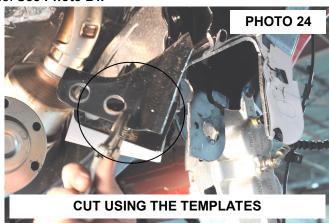
- 25. Remove the differential vent tube from the differential.
- 26. Support the differential using a floor jack and remove the upper driver side differential bolt using a 18mm wrench. Retain hardware for reuse. **See Photo 21.**
- 27. Remove the passenger side differential bolt using a 18 & 21mm wrench. 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 you can use a saw to cut the radius clearance or drill with a 1.25+hole saw before cutting the frame. **See Photo 24.**

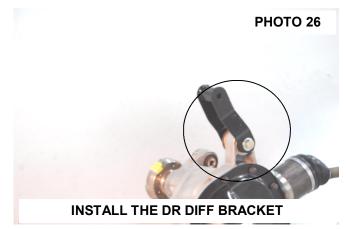




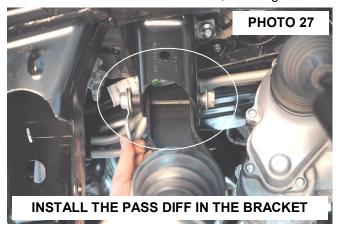


- 31. Install the new bracket on the passenger side diff mount with the supplied hardware. Install the 9/16+x 4+bolt, washers & nut in the in the passenger side mount. **See Photo 25.**
- 32. Install the driver side diff mount with the supplied 9/16+x 4+bolt, washers and nut *from the front to rear*. **NOTE**: The differential mounts bolts will need to be inserted from the front of the differential in order to clear the rack and pinion. See Photo 26.





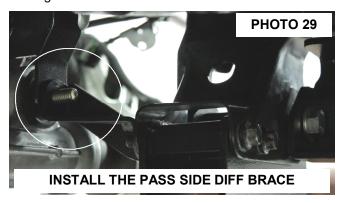
- 33. Raise the differential into place and install the driver and passenger upper differential bolts using the stock hardware. **See Photo 27.** Do not tighten at this time.
- 34. Install the rear cross-member with the supplied 18mm x 150mm bolt. The bolt will install through the sway bar bracket and rear cross-member, securing it to the stock location. Do not tighten at this time.





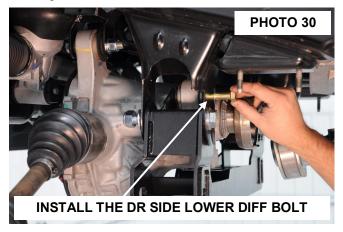
INSTALL RR CROSSMEMBER /SWAY BAR BRKTS

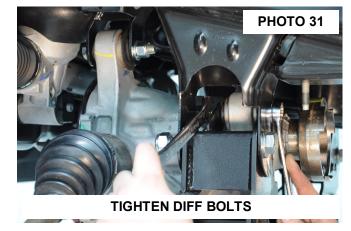
35. Install the passenger side differential brace as shown in **Photo 29** using the stock cross-member hardware. Do not tighten at this time.



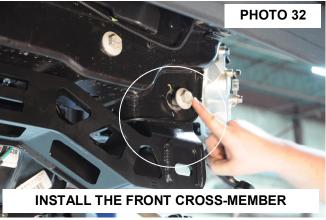


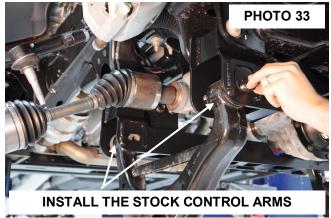
- 36. Install the supplied 9/16+x 4+rear differential bolt through the sway bar mount and new differential mount. **See Photo 30**.
- 37. Tighten the diff bolt with a 21mm and 22mm wrench. See Photo 31.





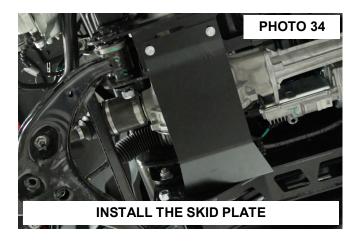
- 38. At this time tighten all diff bolts using 18mm socket / wrench for the upper diff bolts and a 21mm & 22mm socket / wrench for the new supplied lower diff bolts. Also tighten the passenger side diff brace hardware using a 15mm & 18mm socket /wrench.
- 39. Reinstall the vent tube on the differential with the new supplied vent tube extension 1557Bag2.
- 40. Install the front cross-member using the factory hardware. See Photo 32. Do not tighten at this time.
- 41. Install the lower control arms using the supplied 18mm x 160mm cam bolts, cam washers and nuts. **See Photo 33**. 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 34. Tighten using a 9/16+socket.

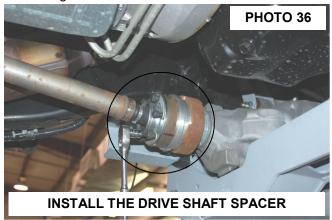
- 43. Tighten all upper cross-member bolts using a 21mm, 1 1/16+socket and 1 1/16+wrench.
- 44. Tighten the sway bar drop mounts to the frame using the factory hardware with a 15mm socket. See Photo 35.

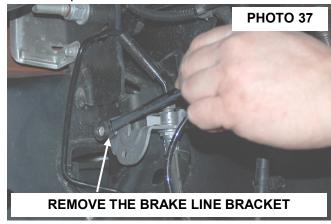




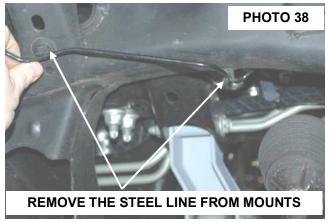


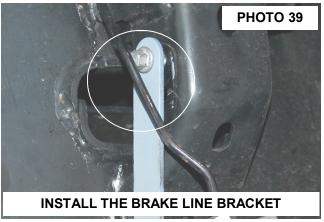
- 45. Install the drive shaft spacer with supplied 10mm x 85mm hardware. **See Photo 36**. Tighten using a 8mm allen wrench.
- 46. Using a 10mm wrench remove the brake line bracket from the driver and pass side frame. See Photo 37.



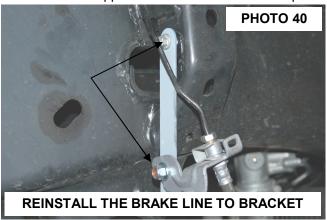


- 47. On the passenger side remove the brake line from the two factory clips. See Photo 38.
- 48. Install the new brake line bracket on the driver and passenger side with the stock hardware. See Photo 39.





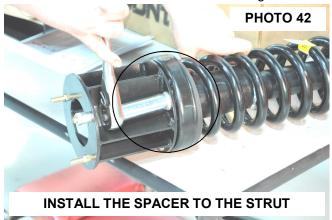
- 49. Install the factory passenger side brake line in the new bracket using the supplied 5/16qx 3/4+bolt, washer and nuts. See Photo 40.
- 50. On the driver side, pull slightly on the brake line to allow the line to be installed on the new bracket. Secure the brake line to the new bracket with the supplied 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. Install the supplied 10mm studs in the strut spacers with a 17mm wrench as shown in **Photo 41**.

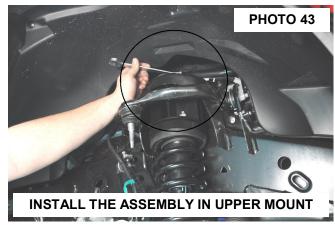






- 53. Using the stock hardware, install the strut spacers on the struts. Tighten using a 15mm socket. See Photo 42.
- 54. Install the strut with strut spacers installed in the stock upper mount. Secure with supplied 10mm nuts, washers and lock washers. **See Photo 43.** Do not tighten at this time.





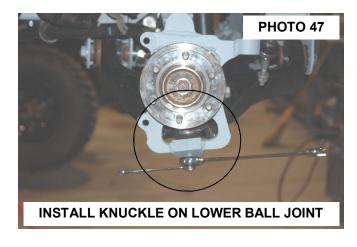
- 55. Install the lower strut in the lower control arm using the factory hardware. Tighten using a 18mm socket.
- 56. Tighten upper strut mount hardware using 17mm wrench.
- 57. Install the sway bar body on the sway bar links located on the lower control arms. Install nut to hold the sway bar in place but do not tighten at this time. **See Photo 44.**
- 58. Swing up the sway bar and install on the sway bar drop brackets using the supplied 7/16+x 1+bolts, washers and nuts. Tighten using a 18mm on the sway bar drop hardware and 18mm wrench on sway bar links on the lower control arms. **See Photo 45.**





- 59. Remove the stock bearing assembly from the stock knuckle using a 18mm for the bearing and a 8mm for the locking hub mechanism. Install the bearing assembly on the lifted knuckle using the stock hardware. Tighten using a 18mm wrench. **See Photo 46.**
- 60. Install the new knuckles using the stock hardware on the lower ball joints, tighten using 24mm and a 12mm wrench. See Photo 47. Do not use air impact on the upper and lower ball joint, tighten with hand tools.



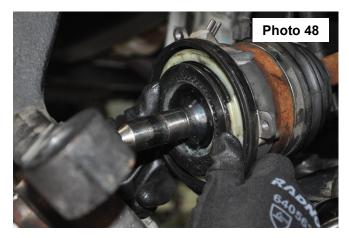


We recommend using OE instructions for disassembly and assembly of IWE actuator, the following instructions are for reference only.

60. Install IWE actuator on CV shaft.

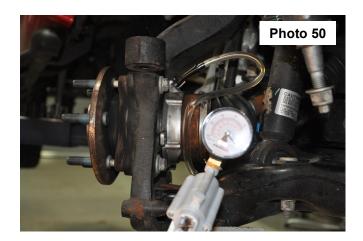
A NOTICE Make sure the actuator splines line up to the splines on the CV shaft. See photo 48.

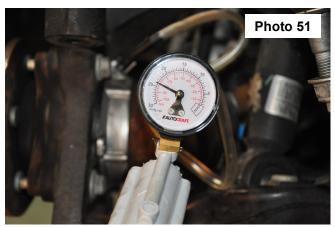
61. Install CV shaft into the knuckle assembly. See Photo 49.





- 62. 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.
- 63. Reinstall the steering linkage nut using a 21mm wrench.
- 64. Using a hand vacuum pump, apply and hold 24inHG of vacuum to the actuator through the large port. **See Photos 50 and 51.**

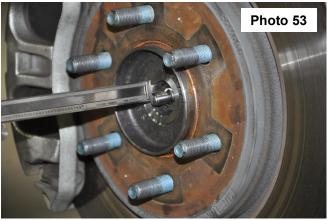






- 65. Install the (3) bolts securing the actuator to the knuckle and tighten using an 8mm wrench. See Photo 52.
- 66. A NOTICE With vacuum still applied to actuator. Measure the depth of the CV shaft treads protruding through the hub bearing. If minimum 15.5mm or .61" is not achieved, rotate the hub to eliminate binding of the splines. See Photo 53.





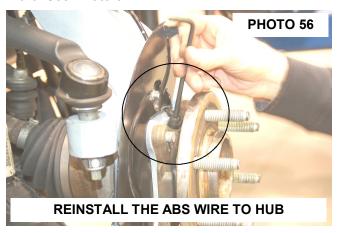
67. Install axle nut and tighten to 30 lb.ft. A NOTICE Do Not Use and impact, caution must be taken or damage to shaft may occur. See Photo 54.

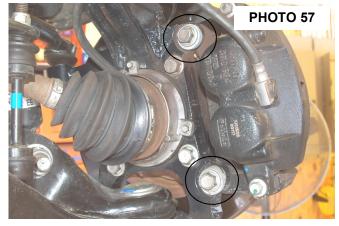


- 68. Verify free rotation of the hub with NO CV shaft rotation. No clicking or grinding noise should be present
- 69. Release the vacuum from the actuator and rotate the hub to engage the actuator. You may hear/feel the actuator engage.
- 70. Verify that the hub and CV rotate together. Reconnect the vacuum lines to the actuator. See Photo 55.



- 71 Install the ABS wire on the bearing assembly using a 5mm allen wrench. See Photo 56. NOTE: The factory dust shield will not be reused.
- 72 Install the rotor and caliper on the knuckle with the stock hardware using a 19mm or 21mm wrench. Tighten hardware. **See Photo 57.**





- 73 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.
- 74 Install the tires and wheels using a 21mm socket. Remove the jack stands and lower the truck to the ground.
- 75 Tighten the lower control arm bolts using a 1-1/16+wrench and socket. Torque to 200 ft/lbs.

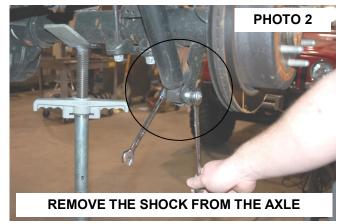
AWARNING Do not cut or remove factory crash bar if equipped.



REAR INSTALLATION

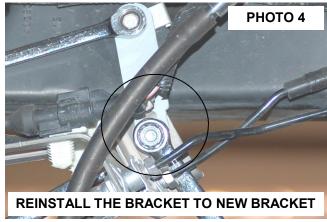
- Chock the front tires and jack the rear the rear end up. Put jack stand under the frame rail and lower truck onto jack stands.
- 2. Remove tires and wheels using a 21mm socket.
- 3. Remove rear shocks from the upper and lower mount using 18mm and a 15mm wrench. See Photo 1 & 2. Retain the stock hardware.



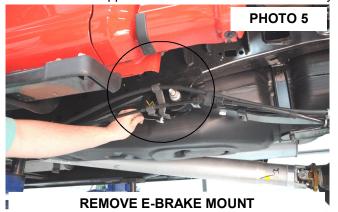


- 4. Using a 10mm wrench, remove the brake line assembly on the inner driver side frame rail. See Photo 3.
- 5. Install the brake line extension bracket on the frame using the stock hardware and tighten using a 10mm wrench. See Photo 4.
- 6. Install the brake line assembly to the new bracket using the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





- 7. Remove the e-brake cable mount with a 10mm wrench as shown on the drivers side as shown in Photo 5.
- 8. Install the supplied e-brake bracket with the factory hardware. Tighten with a 10mm wrench. See Photo 6.

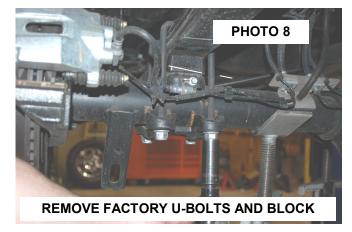




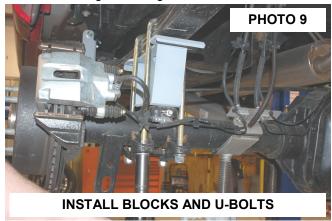


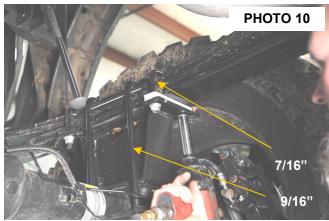
- Install the e-brake cable mount to the new e-brake drop bracket using the supplied 5/16+bolt, washers, and lock nut.
 See Photo 7.
- 10. Using a jack support the rear end and remove U-bolts using a 21mm socket and remove the factory blocks. Retain factory block for the 4+kit. **See Photo 8.**



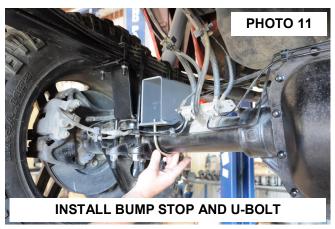


- 11. Install the supplied blocks on the block pin holes on the axle and raise the axle into place. **See Photo 9.** Note the 4+ kit will have a standard block with the factory block while the 5+6+kit will use the Rough Country Anti-wrap design blocks.
- 12. Install the axle u-bolts and tighten using a 22mm socket.
- 13. For the 5+6+kits install the upper leaf spring u-bolts over the leaf spring and into the blocks. Secure with supplied hardware and tighten using a 16mm socket. **See Photo 10.**





14. Install the supplied rear bump stop bracket if supplied with the 3/8+x 3.5+round u-bolt. Tighten with the 3/8+nylock nuts and a 9/16+socket. **See Photo 11.**

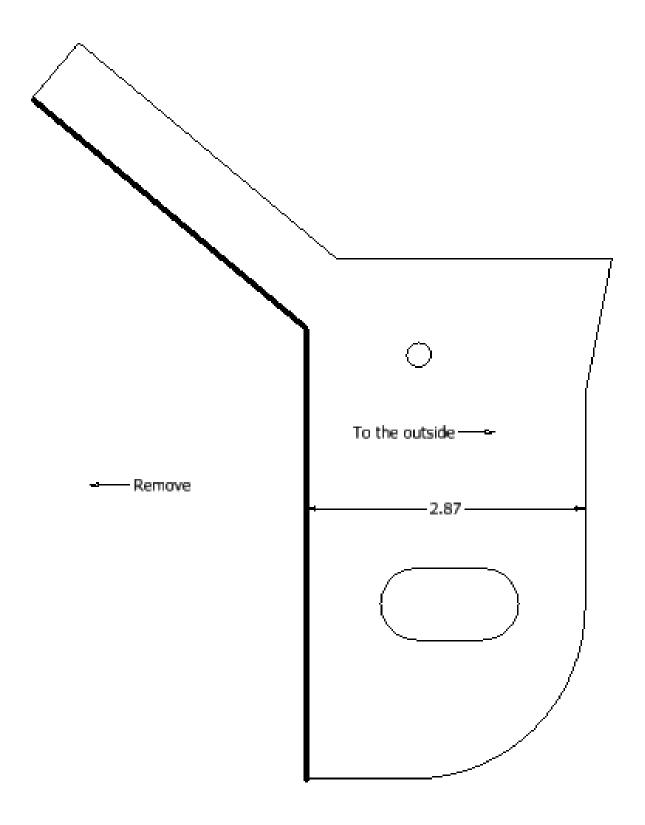




- 15. Install the new RCX 2.2 shock absorbers in the upper and lower mounts using the stock hardware. Tighten using a 18 and 15mm wrench. **See Photo 12.**
- 16. Install the tire and wheels.
- 17. Raise up the rear of the vehicle and remove the jack stands. Lower the vehicle to the ground.

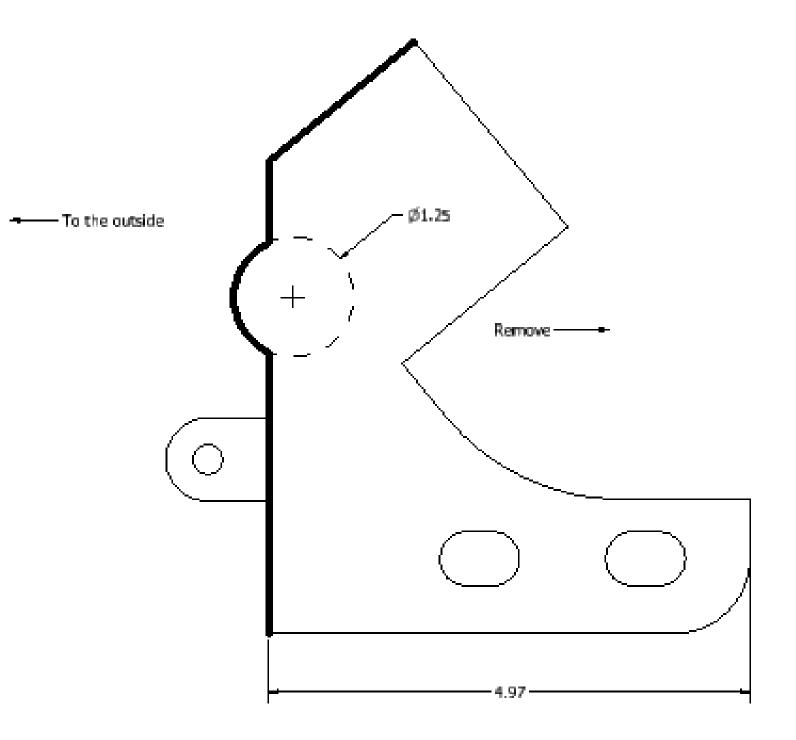








CUTTING / DRILLING TEMPLATE—REAR OF DRIVER SIDE CROSS-MEMBER





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.

Thank you for purchasing a Rough Country Suspension System.

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.