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## PRO COMP SUSPENSION

**K4233T/ M/ MS/ BPX  
K4233TU/ MU/ MSU/ BPXU  
6" 2021 & UP FORD F150 4WD LIFT KIT**

**Stock 17" & 18" wheels will not work in conjunction with this  
IMPORTANT!: 18" AND LARGER WHEEL, NOT TO EXCEED 9" IN WIDTH  
WITH A MAXIMUM BACKSPACING OF 5 1/2" MUST BE USED IN  
CONJUNCTION WITH THIS LIFT KIT! See pg. 5 for details.**

**This document contains very important information that includes warranty information and instructions for resolving problems you may encounter. Please keep it in the vehicle as a permanent record.**

Part #	Description	Qty.	Illus.	Page
<b>Box 1 of 6-PN 52240B-1</b>				
91-12408	REAR CROSSMEMBER	1	3,7,8	10,12
91-10080	REAR CROSSMEMBER BRACE	1	7	12
90-6705	HARDWARE PACK: Brace	2	-	-
70-0501501800	1/2" X 1 1/2" HEX BOLT Gr. 8	2	7	11
72-050100816	1/2" STOVER NUT Gr. C	2	7	11
73-05000834	1/2" SAE HARDENED FLAT WASHER	4	7	11
35-10104	NUT PLATE: Brace	2	7	11
91-12415	CROSSMEMBER SKID PLATE	1	8	12
90-6223	HARDWARE PACK: Skid Plate	1	8	-
70-0371251800	3/8" X 1 1/4" HEX BOLT Gr. 8	4	8	12
72-037100816	3/8" STOVER NUT Gr. C	4	8	12
73-03700034	3/8" HARDENED FLAT WASHER	8	8	12
91-12416	DIFFERENTIAL DROP: Front Driver	1	2	8
91-12420	DIFFERENTIAL DROP: Passenger	1	3A	8
90-6189	HARDWARE PACK: Differential	1	6	10
90-2217	HOSE: 5/16" ID X 3 1/2"	1	6	10
90-2216	HOSE MENDER: BRASS (5/16")	1	6	10
90-60845	HARDWARE PACK: Differential	1	-	-
70-0561251800	9/16" X 4" GR8 HEXBOLT	3	2,3	9,10
70-0561501800	9/16" X 1 1/2" HEX BOLT	1	-	8
73-05600034	9/16" HARDENED FLAT WASHER	8	2,3	9,10
72-056100816	9/16" STOVER NUT Gr. C	4	2,3	9,10
91-12424	DIFFERENTIAL DROP: Rear Driver	1	3B	9
90-6701	HARDWARE PACK: Rear Crossmember	1	4	-
71-181502501000	18mm-2.5 X 150mm HEX BOLT 10.9	1	4	10
72-01810932	18mm-2.5 STOVER NUT Gr. C	1	4	10
73-01810934	18mm USS FLAT WASHER	2	4	10
90-6703	HARDWARE PACK: Leaf Spring Shim Pack	1	-	-
90-3085	FORD REAR END SHIMS	4	-	-
97-120	1/2" X 3 1/2" GR. 8 USS. HEX MACHINED HEAD	4	-	-
72-050100811	1/2" GR. 8 USS. UNPLATED HEX NUT	4	-	-
90-6493	HARDWARE PACK: Rear Driveshaft Spacer	1	14	18
.120C600HCS1Y	12mm- 1.75 X 60mm 10.9 HEX BOLT	4	14	18
73-01200830	12mm SAE FLAT WASHER	4	14	18
65-44205	REAR DRIVESHAFT SPACER	1	16	20
35-12429	LEAF CLAMP PLATE	3	13	16
90-60831	HARDWARE PACK: U-Bolt Pinch Clamp	1	13	16
91-12428	DIFF DROP SUPPORT PLATE	1	3A	8

Part #	Description	Qty.	Illus.	Page
<b>Box 2 of 6-PN 52240B-2</b>				
90-44179	KNUCKLE: Driver	1	-	12,14
<b>Box 3 of 6-PN 52240B-3</b>				
90-44180	KNUCKLE: Passenger	1	-	12,14
<b>Box 4 of 6-PN 52240B-4</b>				
91-10671	FRONT CROSSMEMBER	1	3,5	10,11
90-6393	HARDWARE PACK: Front Brake Line Drops	1	-	14
90-3202	F150 BRAKELINE DROP	2	-	14
90-6299	HARDWARE PACK: Front Brake Lines	1	-	14
70-0311001500	5/16" X 1" Gr. 5 HEX BOLT	2	-	14
72-03100100512	5/16" NYLOCK NUT	2	-	14
73-03100030	5/16" SAE FLAT WASHER	4	-	14
91-10101	SWAY BAR DROP: Pass	1	10	10,12
90-6340	HARDWARE PACK: Sway Bar Drop	1	-	-
70-0431751800	7/16" X 1 1/4" HEX BOLT Gr. 8	4	10	12
72-043100816	7/16" STOVER NUT Gr. C	4	10	12
73-04300830	7/16" SAE FLAT WASHER	8	10	12
90-6319	HARDWARE PACK: Zip Ties	1	-	16
10999	ZIP TIE, 11", BLACK	12	-	16
90-6751	HARDWARE PACK: Cam Bolts	1	-	10
90-5532	CAM ECCENTRIC: F-150 Slotted	4	6	10
90-5533	CAM BOLT: 18mm-2.5 X 150MM 10.9	4	6	10
90-6313	HARDWARE PACK: Crossmember	1	-	10
72-01810932	18mm STOVER NUT	4	6	10
73-01810934	18mm FLAT WASHER	4	6	10
90-9434	SWAY BAR MOUNT WASHER PLATE	2		
<b>Box 5 of 6-PN 58409</b>				
95-405F	4" LIFT BLOCK	2	13	16
13-90390	U-BOLT: 9/16"-18 x 3.36" x 12.50"	4	13	16
20-65302	HARDWARE PACK: 9/16" HI-NUTS	1	13	16

Part #	Description	Qty.	Illus.	Page
<b>Box 6 of 6-PN 52221B-5: Not used in K4233BX or K4233BXU</b>				
91-2977	COIL SPACER	2	11b	12,13
90-6317	<b>HARDWARE PACK: Spacer Mount</b>	1	-	12,13
72-043200810	7/16" GR. 8 HEX NUT	6	11b	12,13
73-04300830	7/16" SAE FLAT WASHER	6	11b	12,13
73-04300836	7/16" SPLIT LOCK WASHER	6	11b	12,13
90-60019	<b>HARDWARE PACK: Spacer Mount</b>	1	-	12,13
	10mm-1.5 NYLOCK NUT	6	11b	12,13
	10mm FLAT WASHER	6	11b	12,13

**52004B: Upper Control Arm Box: Used in K4233TU, K4233MU, K4233MSU, K4233BXU**

89-20236	04+ F150 UCA DVR BJ ASM	1	-	-
89-20257	04+ F150 UCA PAS BJ ASM	1	-	-
90-4433	GREASE PACK	8	-	-
90-60771	<b>HARDWARE PACK: .5" BUSHING HARDWARE</b>	1	-	-
15-11071	HAT BUSH 1.89X.980X1.00	8	-	-
15-11072	SUPT RING 1.85X1.00X.25	4	-	-
90-60778	<b>HARDWARE PACK: SLEEVE 1.0X14MM22.72 KIT</b>	1	-	-
35-20235	SLEEVE: 1.00 X .14MM" X 2.45"	4	-	-
90-60801	<b>HARDWARE PACK: 1/4-20 X 3/4 HEX BOLTS</b>	1	-	-
90-44172	M12 TAPERED WASHER	2	-	-

**Shock Box K4233T/K4233TU**

932008B	ES9000 TWIN TUBE	2	-	-
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**Shock Box K4233M/K4233MU**

PR2122	PRO RUNNER SHOCK	2	-	-
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**Shock Box K4233MS/K4233MSU**

PR2118	PRO RUNNER SS MONOTUBE	2	-	-
PR2122	PRO RUNNER SHOCK	2	-	-

**Shock Box K4233BX/K4233BXU**

52232BX-1	14-21 F150 4.5-7 CO 2.5 IR	1	12	13
90-40981-00057	14F150 CO 4.5-7 IR DVR	1	12	13
90-40981-00059	14F150 CO 4.5-7 IR PAS	1	12	13
52232BX-2	14-21 F150 2.5-5 RR2.5 IR	1	-	-
90-40981-00058	04-20 F150 2.5RR 2.5-5 IR	2	-	-

## **Tire & Wheel Information:**

Due to differences in manufacturing, dimensions and inflated measurements, tire and wheel combinations should be test fit prior to installation. Tire and wheel choice is crucial in assuring proper fit, performance, and the safety of your Pro Comp equipped vehicle. For this application, a 18" and larger wheel not to exceed 9" in width with a maximum backspacing of 5 1/2" is acceptable. A quality tire of radial design, not exceeding 35" tall X 13.5" wide is recommended. Please note that the use of a 35" X 13.5" tire may require fender modification. Violation of these recommendations will not be endorsed as acceptable by Pro Comp Suspension and will void any and all warranties either written or implied.

***IMPORTANT!: 18" OR LARGER WHEELS MUST BE USED IN CONJUNCTION WITH THIS LIFT KIT! EXCLUDING REVERSE MOUNT WHEELS.***

## Special Tools:

- ◆ This installation requires a professional mechanic!
- ◆ We recommend that you have access to a factory service manual for your vehicle to assist in the disassembly and reassembly of your vehicle. It contains a wealth of detailed information.
- ◆ Prior to installation, carefully inspect the vehicle's steering and driveline systems paying close attention to the tie rod ends, ball joints, wheel bearing preload, pitman and idler arm. Additionally, check steering-to-frame and suspension-to-frame attaching points for stress cracks. The overall vehicle must be in excellent working condition. Repair or replace all worn or damaged parts!
- ◆ Read the instructions carefully and study the illustrations before attempting installation! You may save yourself a lot of extra work.
- ◆ Check the parts and hardware against the parts list to assure that your kit is complete. Separating parts according to the areas where they will be used and placing the hardware with the brackets before you begin will save installation time.
- ◆ Check the special equipment list and ensure the availability of these tools.
- ◆ Secure and properly block vehicle prior to beginning installation.
- ◆ Always use NEW cotter pins on re-assembly! (These items are NOT supplied)
- ◆ ALWAYS wear safety glasses when using power tools or working under the vehicle!
- ◆ Use caution when cutting is required under the vehicle. The factory undercoating is flammable. Take appropriate precautions. Have a fire extinguisher close at hand.
- ◆ **IT IS ADVISABLE THAT YOU HAVE HELP AVAILABLE WHEN INSTALLING THIS KIT. SOME COMPONENTS ARE HEAVY AND AWKWARD. ADDITIONAL HELP IS GOOD INSURANCE AGAINST INJURY!**
- ◆ Foot pound torque readings are listed on the Torque Specifications chart at the end of the instructions. These are to be used unless specifically directed otherwise. Apply thread lock retaining compound where specified.
- ◆ **Please note that while every effort is made to ensure that the installation of your Pro Comp lift kit is a positive experience, variations in construction and assembly in the vehicle manufacturing process will virtually ensure that some parts may seem difficult to install. Additionally, the current trend in manufacturing of vehicles results in a frame that is highly flexible and may shift slightly on disassembly prior to installation. The use of pry bars and tapered punches for alignment is considered normal and usually does not indicate a faulty product. However, if you are uncertain about some aspect of the installation process, please feel free to call our tech support department at the number listed on the cover page. We do not recommend that you modify the Pro Comp parts in any way as this will void any warranty expressed or implied by the Pro Comp Suspension company.**

## Front Installation:

1. Prior to installing this kit, with the vehicle on the ground. Measure the height of your vehicle. This measurement can be recorded from the center of the wheel, straight up to the top of the inner fender lip. Record the measurements below.

LF: \_\_\_\_\_ RF: \_\_\_\_\_

LR: \_\_\_\_\_ RR: \_\_\_\_\_

2. At ride height. measure front driveshaft pullout Record the measurement below.

### Front Driveshaft Pullout:

\_\_\_\_\_

3. Ensure that your work space is of adequate size and the work surface is level. Place the vehicle in park and set parking brake. Place blocks both in front of and behind the rear wheels. Place your floor jack under the front cross member and raise vehicle. Place jack stands under the frame rails behind the front wheel wells and lower the frame onto the stands. Remove the jack and remove the front wheels.
4. Remove any skid plates if necessary.
5. Work on one side of the vehicle at a time.
6. Unbolt the **OE** brake line and bracket from the side of the knuckle. Save the hardware for reinstallation.
7. Remove the tie rod end nut and separate from the knuckle using the appropriate tool.
8. Remove the front caliper and bracket assembly from the front knuckle by removing the **(2)** retaining bolts.

**NOTE: Make sure you do not let the calipers hang on the brake lines or damage will occur.**

9. Remove the front rotors from the front hub.
10. Remove the dust cap and the nut from the end of the CV in the hub.
11. Remove the anti-lock wiring and sensor from the hub if applicable.
12. Unplug 4x4 actuator from under the hood.
13. Disconnect the sway bar end links from the sway bar. Save hardware for reinstallation.
14. Unbolt and remove the sway bar from the vehicle. Save hardware for reinstallation.
15. Remove the upper ball joint nut from the knuckle and separate using the appropriate tool.
16. Remove the lower ball joint nut, separate using the appropriate tool. Remove the knuckle from the vehicle while pulling it away from the CV and set the knuckle aside. Transfer brake dust shield to new knuckle.
17. Remove the three nuts from the top of the coil over assembly and the two nuts on the bottom. Remove the coilover assembly from the vehicle. Save hardware for reinstallation.
18. Remove the two bolts that retain the lower a-arms and remove them from the truck.
19. Repeat on the other side of the vehicle.
20. Mark the driveshaft orientation and disconnect the front drive shaft from the differential. Secure the driveshaft up and out of the way of the work area.
21. Remove the rear crossmember brace; retain **(2)** of the bolts and nuts for reinstallation.

**NOTE: Careful heating of the OE bolts may be necessary to loosen the factory thread locker.**

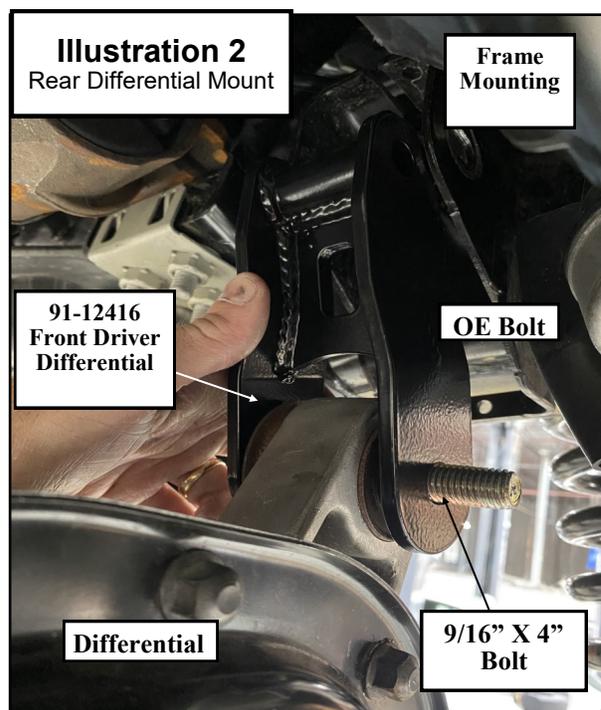
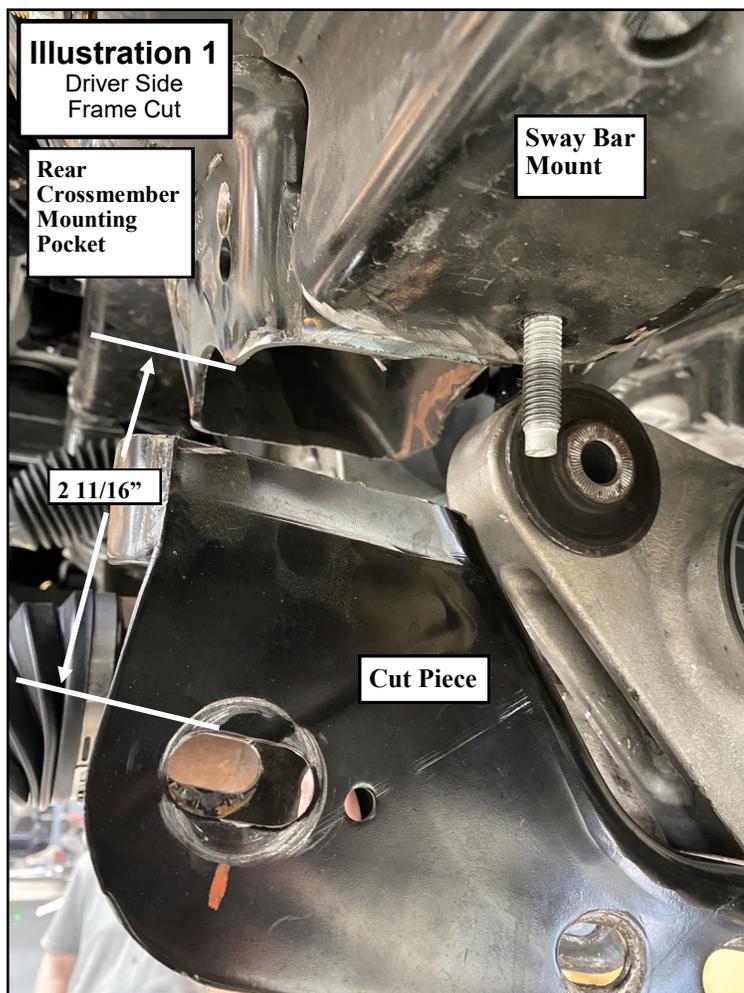
22. Make sure that the front differential is well supported, remove the existing hardware from both passenger and driver side differential mounting areas. Carefully lower differential out of vehicle and set aside. Note the vent routing for reinstall. Be careful the differential is heavy.
23. In order to install the rear crossmember, the driver side control arm mounting pocket needs to be removed. Measure up **2 11/16"** from the top of the cam bolt hole and draw a horizontal line across the entire pocket. Be sure the line is flush with the sway bar mount. See **Illustration 1**.
24. Using a suitable cutting tool, (abrasive cutoff wheel, Sawz-all, etc.) cut the frame along the previously marked lines

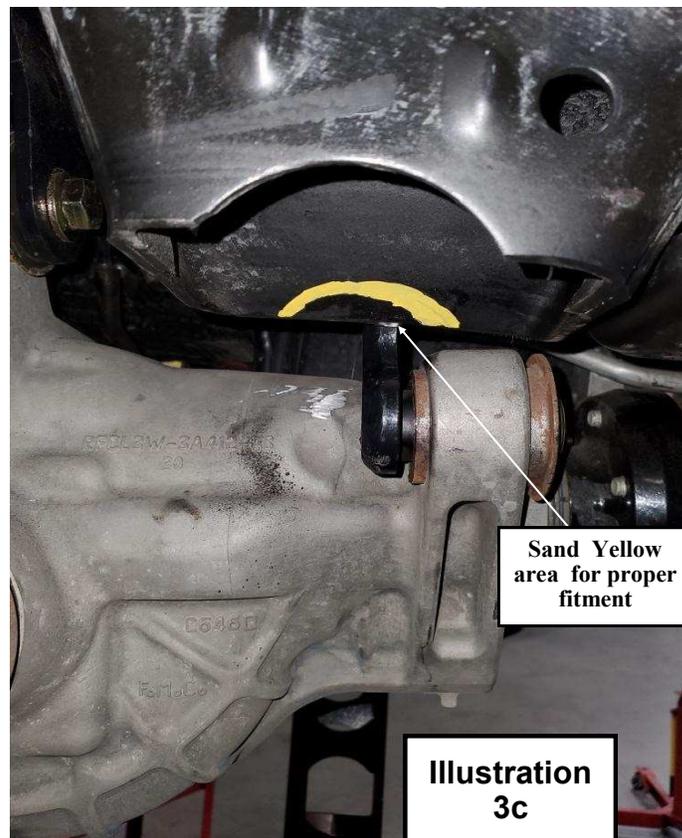
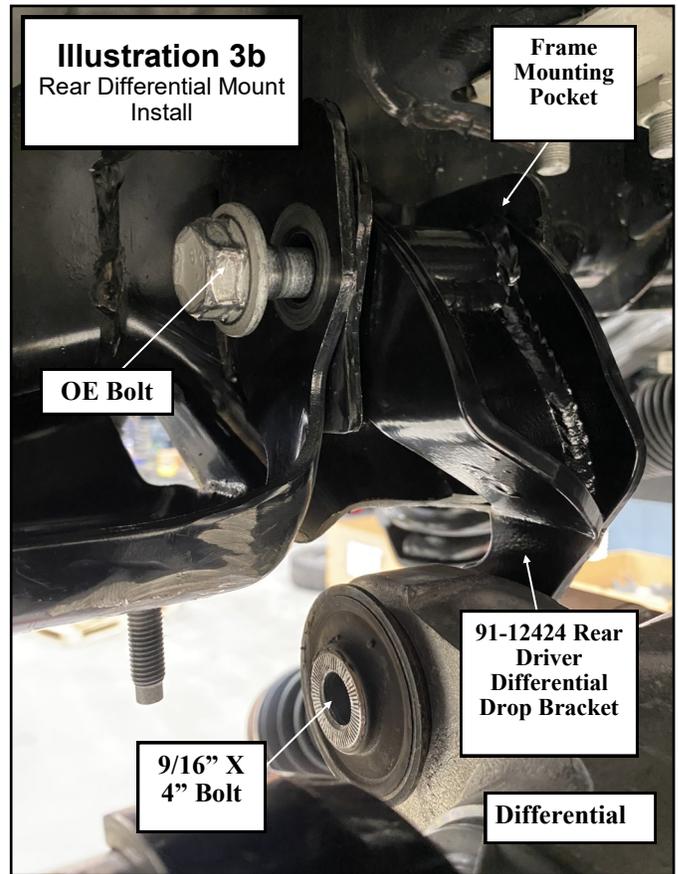
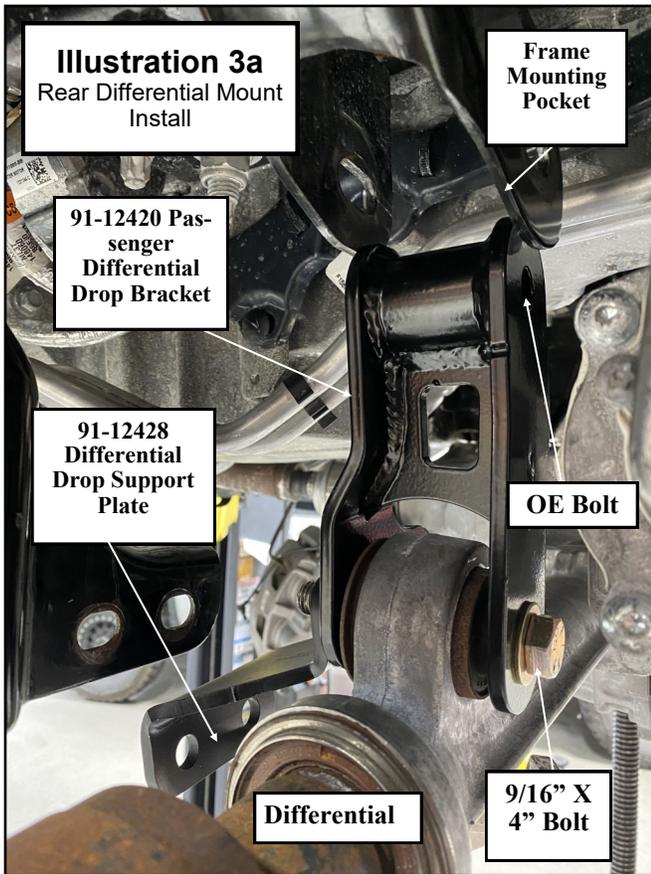
as shown in **Illustration 1**. Be sure to make the cut flush with the sway bar mount.

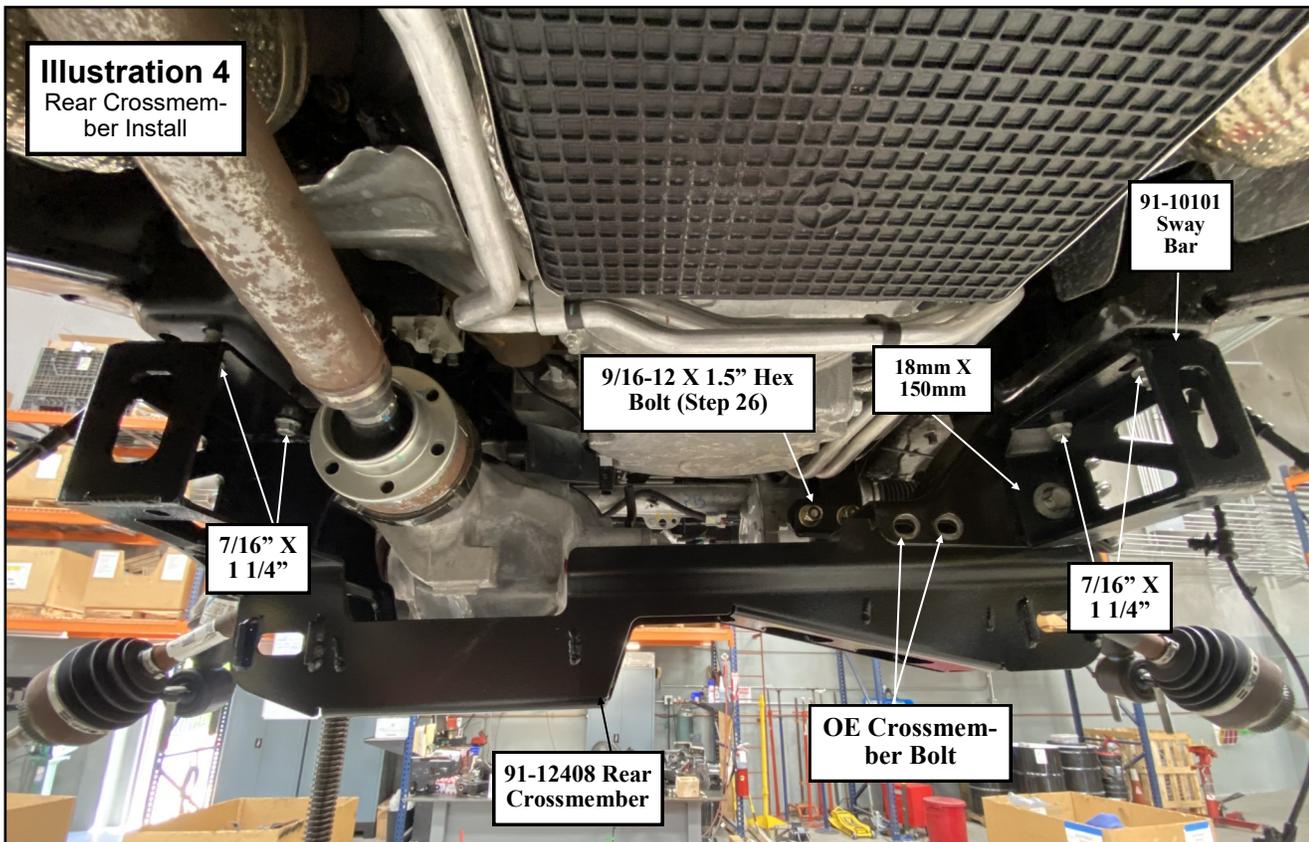
25. After cutting the sections out of the frame, clean the area thoroughly and paint the exposed metal with a good quality paint.
26. Install the driver side and passenger side front differential drop brackets (**91-12416 drvr** and **91-12420 pass**) to the frame with the previously removed **OE** bolts and hardware. Install diff drop support plate (**91-12428**) to the lower passenger side drop bracket with the supplied 9/16 X 1.5" bolt. Leave the bolts loose. See **Illustration 2, 3a, and 4**.

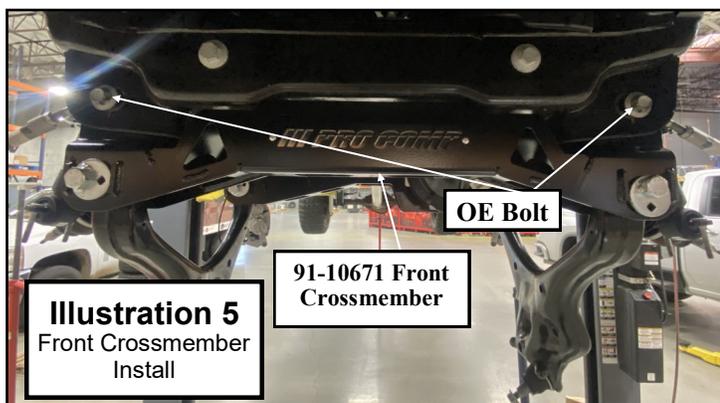
**NOTE: The jog in the brackets will face towards the front of the truck.**

27. Secure the driver side rear differential drop bracket (**91-12424**) to the frame using the previously removed **OE** bolt. Leave the bolt loose at this time. See **Illustration 3b.**(Sanding may be required for fitment. See illustration 3c.)





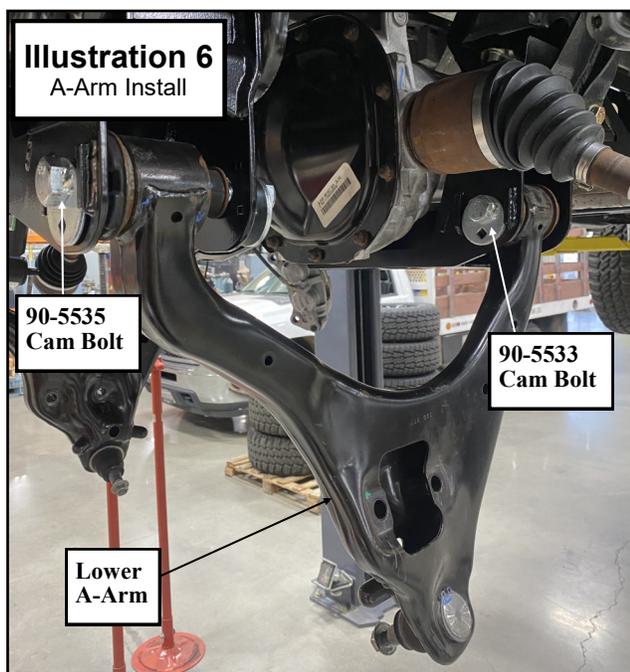




28. Carefully hang the differential into the front differential drop brackets with the supplied **9/16" X 4"** bolts and hardware from pack **(90-6302)**. Leave the bolts loose. See **Illustration 2, 3a, and 3b**.

29. Using the differential drop extension pack **(90-6189)** fit the new hose to the differential. Place the supplied plug in the end of the tube and connect the factory tube to it. Route the vent hose as previously noted. Use the supplied zip ties to secure the hose.

30. Raise the rear crossmember **(91-12408)** into place and install the supplied passenger side **18mm X 150mm** crossmember bolt **(90-6701)**. Install the



bolt with the head to the front. Do not install the nut at this time. See **Illustration 4**. (**Sanding may be required for fitment**. See **illustration 3d**.)

31. Install the passenger side sway bar drop bracket **(91-10101)** onto the previously installed **18mm** crossmember bolt. Install the nut onto the crossmember bolt. Leave the bolts loose. See **Illustration 4**.

32. Secure the passenger side sway bar drop bracket **(91-10101)** to the **OE** sway bar mounting holes in the frame using the supplied **7/16" X 1 1/4"** bolts and hardware. Leave the bolts loose. See **Illustration 4**.

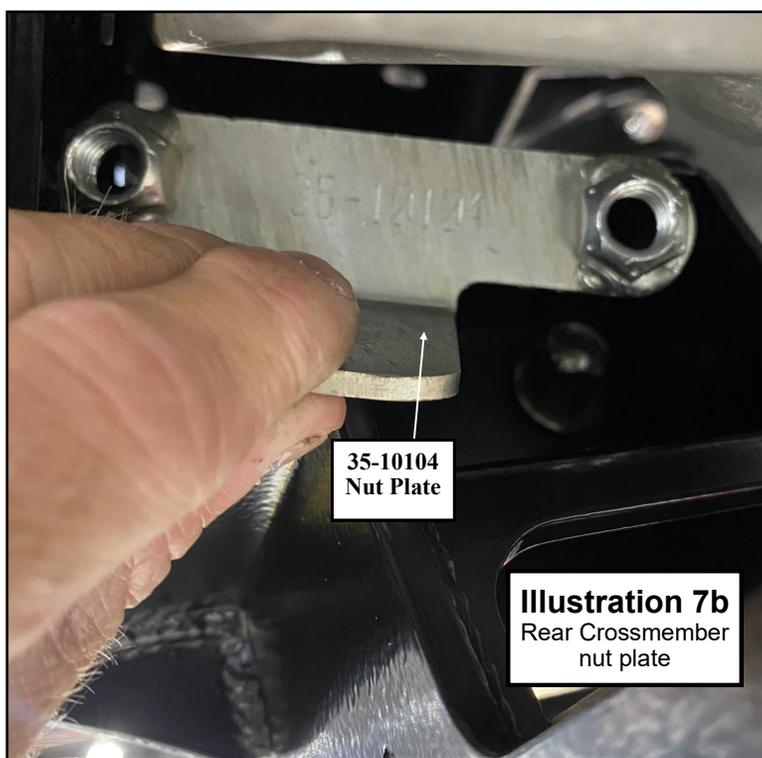
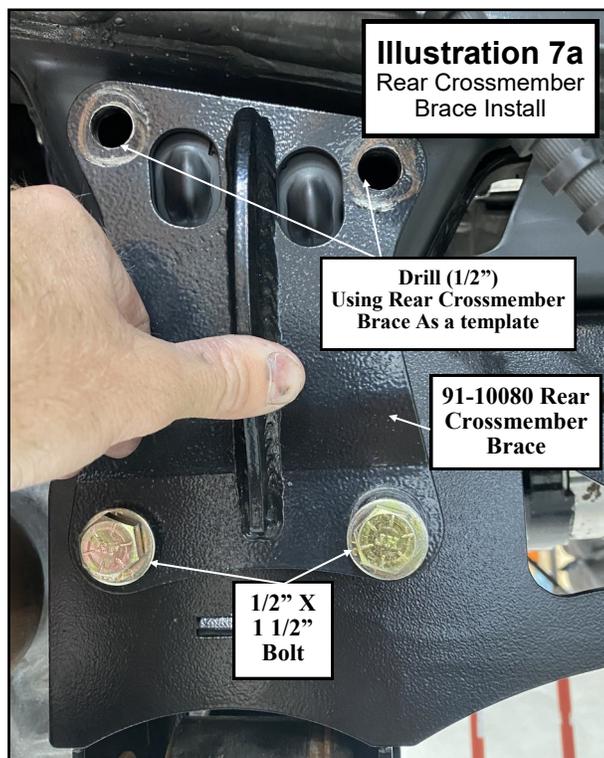
33. Install the **(2) OE** crossmember brace bolts into the **(2)** remaining holes on the pass side of the rear crossmember. Leave the bolts loose. See **Illustration 4**.

34. Secure the rear crossmember **(91-12408)** to the driver side **OE** sway bar mounting holes in the frame using the supplied **7/16" X 1 1/4"** bolts. Leave the bolts loose. See **Illustration 4**.

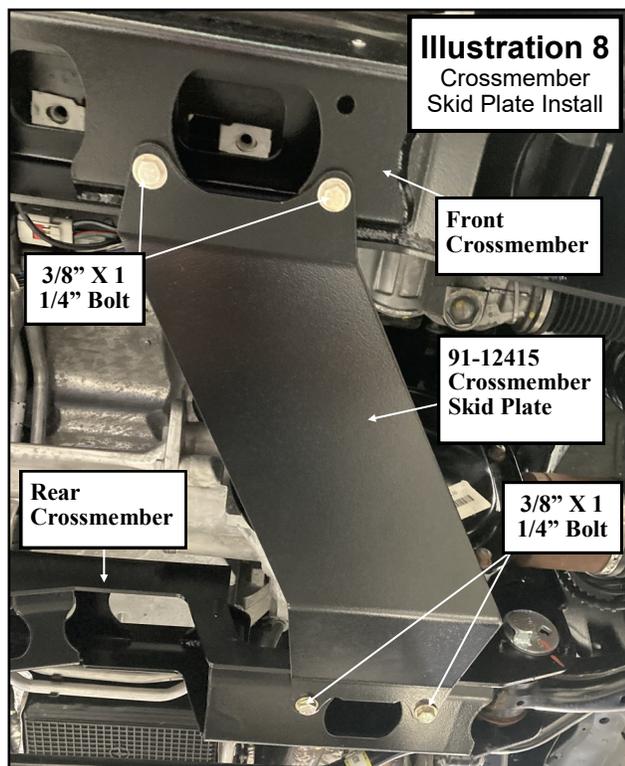
35. Install the rear differential drop bracket **(91-12424)** to the differential using the supplied **9/16" X 4"** bolt, through the mounting hole in the rear crossmember, with the head facing the rear of the vehicle. Leave the bolts loose. See **Illustration 3a**.

36. Install the front crossmember **(91-10671)** into original front A-arm mounting locations, using the factory bolts with the heads to the front, leave loose. See **Illustration 5**.

37. To ensure proper rear crossmember placement, test fit the driver side A-arm in the crossmember mounting pockets. Secure using the supplied cam bolts **(90-5533)**, cam eccentric **(90-5532)**, **18mm** washers and nuts. See **Illustration 6**.



**NOTE:** The rear cross member is slotted and it needs to be pushed as far to the Passenger side as possible before it is tightened.



38. Once the A-Arm is securely in place, tighten the previously installed **7/16"** hardware and the **OE** pass side crossmember bolts and hardware. Remove the A-Arm and cam bolts from the vehicle.

39. Install the rear crossmember brace (**91-10080**) to the rear crossmember using the **1/2" X 1 1/2"** bolts and nutplate (**35-10104**). Tighten the bolts. See **Illustrations 7a and 7b**.

40. Use the upper holes in the crossmember brace as a guide for drilling through the frame. See **Illustration 7a**.

41. Center punch and drill the holes using a **1/2"** drill bit. See **Illustration 7a**.

42. Secure the upper holes in the rear crossmember brace (**91-10080**) to the frame using the **1/2" X 1 1/2"** bolts and nut plate (**35-10104**). See **Illustrations 7a and 7b**.

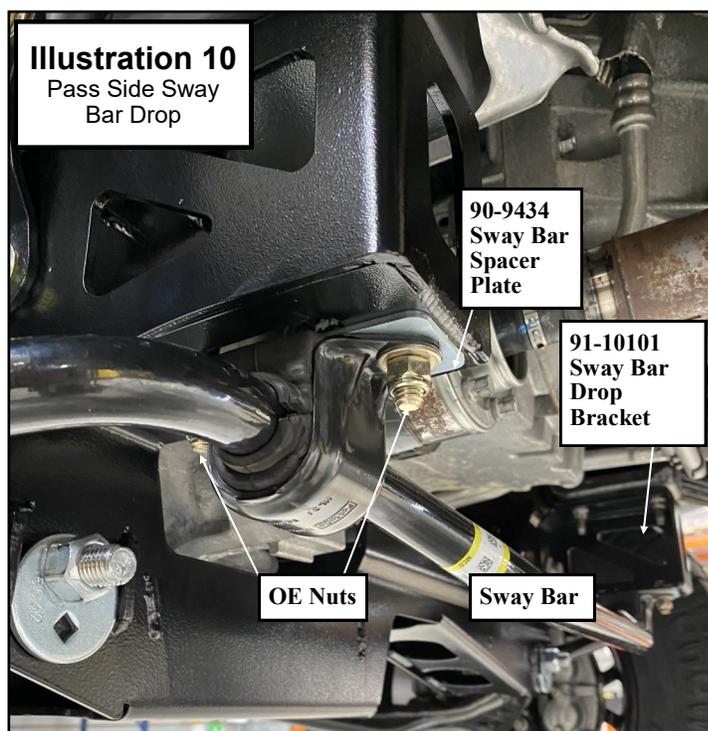
43. Install the lower a-arms into the new cross members with the supplied cam bolts (90-5533), cam eccentric (90-5532), 18mm washers and nuts. The cams should fit between the cam guides on the cross members. Center the cams in the guides. You will torque the bolts at the end of the install when the vehicle is on the ground. See **Illustration 6**.
44. Install the crossmember skid plate (91-12415) to the front and rear crossmembers using the supplied 3/8" X 1 1/4" bolts and hardware (90-6223). See **Illustration 8**.
45. Torque all differential and crossmember hardware according to the torque chart on page 23 or to manufacturers specifications.
46. Reinstall the front driveshaft to the differential. Torque the bolts according to the chart on page 23. Rotate driveshaft to check for binding. If it binds the driveshaft must be clearanced by a qualified driveline shop.
47. Install the sway bar frame mounts to the sway bar drop brackets using the previously removed OE bolt plates, spacer plates (90-9434) if necessary, and swaybar hardware (90-6340). See **Illustration 10**.
48. Secure the sway bar end links to the sway bar using the previously removed OE hardware.
49. Torque the sway bar mount hardware to 60 ft./lbs.
50. Transfer all the parts from the factory knuckles to the supplied Pro Comp knuckles (90-44179 driver and 90-44180 passenger)

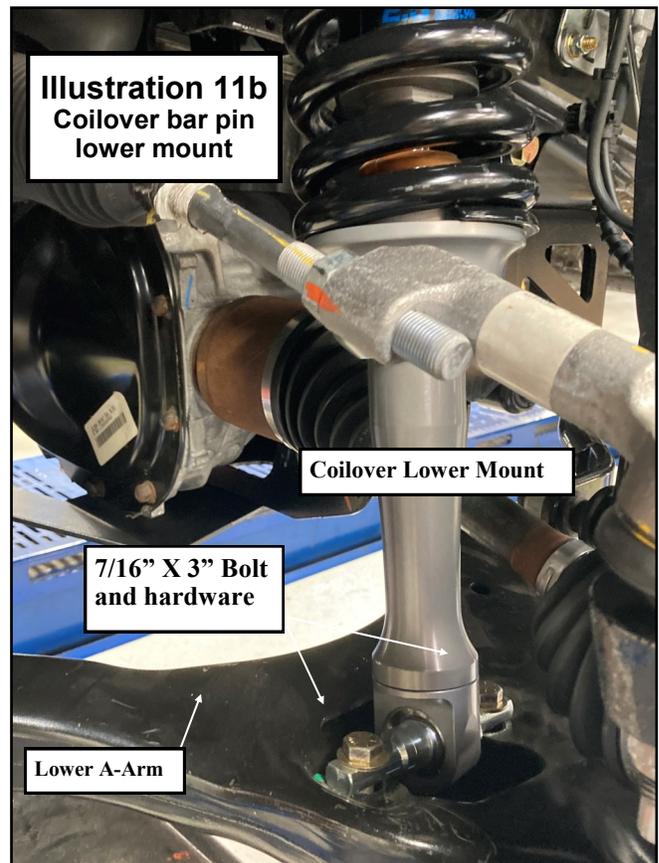
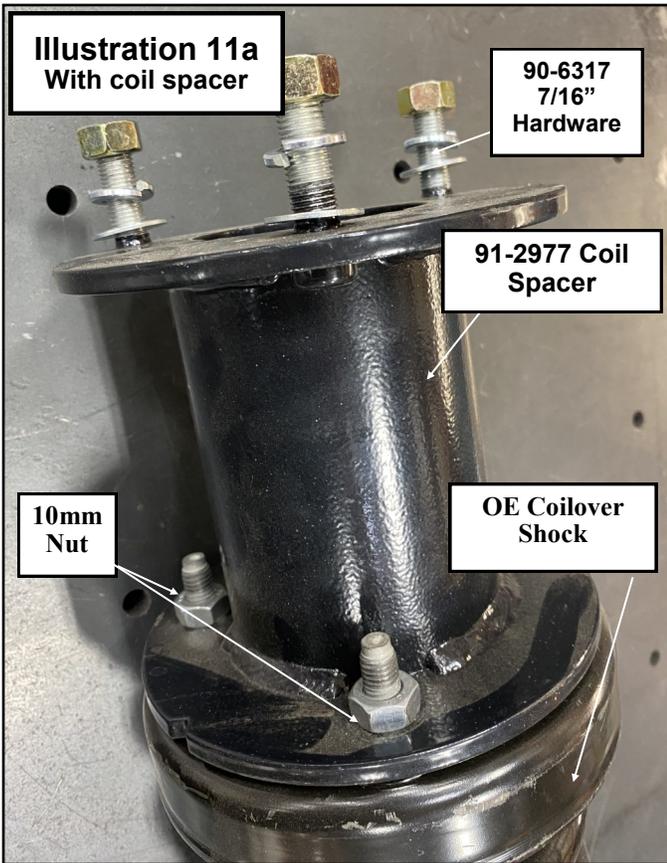
**NOTE: Tighten all the factory hardware carefully. Be sure to follow the factory assembly procedures and torque specifications.**

51. ***IF USING STRUT SPACERS***, attach the spacer (91-2977) to the top of the shock using the supplied 10mm nuts and washers. See **Illustration 11a**.

**NOTE: If installing ZX2118 replacement coilover strut, refer to instructions included with coilover strut. The ZX2118 coilover collar must be run at the stock height or damage may occur.**

52. Install the strut assembly into the strut tower and start the (3) upper 7/16" nuts and washers from hardware pack (90-6317). Leave this hardware loose until you have completed step 54. The final tightening and torque settings can be completed when the vehicle is on the ground.
53. Position the studs of the lower mount into the lower A-arm and secure with the previously removed OE nuts. See **Illustration 11b**. Torque according to the chart on page 23.





54. **IMPORTANT!** Rotate coil spring on the OE driver strut 180 degrees by using a spring compressor. Failure to do so will result in contact between coil and knuckle.
55. **WITH COILOVERS:** refer to instructions included in 52232BX-1
56. Repeat steps 52 through 54 (*for use with strut spacer*) or 55 through 58 (*for use with coil over*) on the remaining side of the vehicle.
57. Support the lower A-arm. Position the new front knuckle Driver (**90-44179**) and Passenger (**90-44180**). Attach the knuckle to the lower ball joint.
58. While raising the knuckle and lower control arm slide the CV through the vacuum actuator and the knuckle. Attach the nut to the end of the CV shaft. Torque to **17** ft/lbs. and attach the dust cap. Torque the small aluminum vacuum cover bolts to **11** ft/lbs.
59. Attach the knuckle to the upper ball joint. Torque to **85** ft/lbs. Torque the lower A-arms nut to **111** ft/lbs.  
  
**NOTE: Check lower control arm to CV boot clearance at full droop. The lower control arm may need to be trimmed and sanded to prevent contact.**
60. Connect the anti-lock wiring harness and sensor to the hub if applicable.
61. Install the supplied brake line relocation bracket (**91-10106**) to the trailing edge of the knuckle using the previously removed **OE** bolt.
62. Secure the **OE** brake line relocation bracket on the front brake line to the new bracket (**91-10106**) using the **5/16" X 1"** bolt and hardware.
63. Install brake dust covers if you haven't

already. Install the front rotors on to the front hub.

64. Install the front calipers on to the front rotors by reinstalling the retaining bolts. Torque to factory specifications.
65. Install the tie rod end to the knuckle. Torque to **111** ft/lbs.
66. Repeat steps **60** through **68** on the other side of the vehicle.
67. Remove stock brake line bracket from frame. Carefully remount the brackets with the supplied brake line drops (**90-3202 drvvr** and **pass**) in between bracket and frame. Use factory hardware to fasten the shorter end of the bracket to the frame. Position the drops, best for your application. Use the supplied hardware from pack (**90-6299**) to fasten **OE** bracket to the new brake line drop.

**WARNING!: Make sure the brake lines that you just modified are not resting against any moving parts.**

68. Reinstall the wheels and tires and lower the vehicle to the ground. Torque the wheels to **150** ft/lbs. If you are using aftermarket wheels follow the manufacturers recommended specifications.
69. Recheck all hardware for proper installation and torque at this time.
70. Torque the **18MM** cam bolts to **180-200** ft/lbs.
71. On both sides of the vehicle, check the routing of the brake lines and the ABS wire harnesses. There must be no pinching, rubbing, or stretching of any component. Use zip ties to secure these items. At full droop, cycle the steering from lock to lock while observing the reaction of these components. Reposition them if needed. (Some trimming may be required based on choice of tire)

**IMPORTANT! BE SURE TO BRING THE VEHICLE IMMEDIATELY TO A REPUTABLE ALIGNMENT SHOP TO BE ALIGNED!**

**IMPORTANT!: AFTER INSTALLATION OF KIT AND BEFORE THE VEHICLE IS FIRST STARTED, BE SURE TO CENTER THE FRONT WHEELS AND THE STEERING WHEEL. IF THE FRONT WHEELS AND THE STEERING WHEEL ARE NOT CENTERED BEFORE STARTING THE VEHICLE, IT MAY TRIGGER A DIAGNOSTIC TROUBLE CODE THAT WILL HAVE TO BE RESET BY THE MANUFACTURERS SERVICE FACILITY.**

**NOTES:**

- ⇒ Upon completion of the installation, have the suspension and headlights re-aligned.
- ⇒ After 100 miles recheck for proper torque on all newly installed hardware.
- ⇒ Recheck all hardware for tightness after off road use.

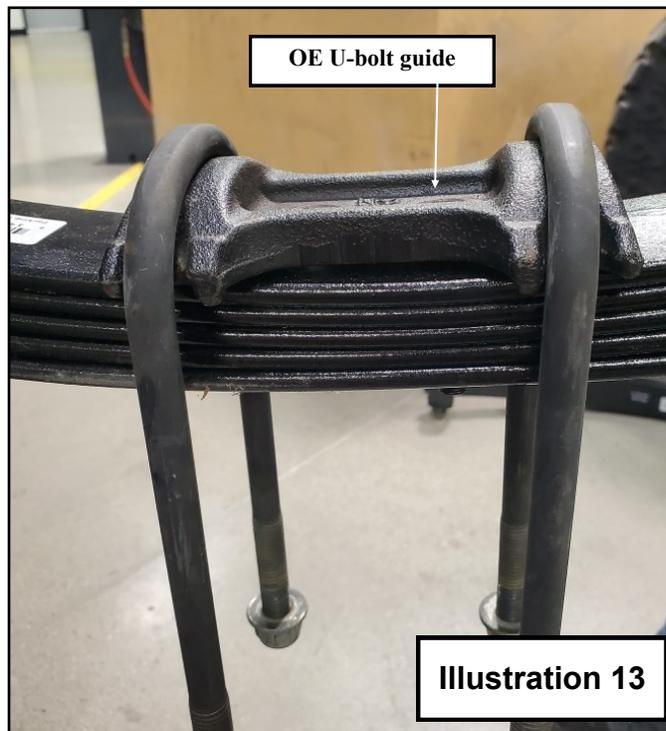
## Rear Installation:

1. Block the front tires and raise the rear of the vehicle. Support the frame with jack stands forward of the rear springs.
2. Remove the rear wheels.
3. Remove the shocks on both sides of the vehicle. It may be necessary that you slightly raise the axle to unload the shocks for removal.
4. On drivers side, unbolt the existing brake line bracket from the frame using hardware.
5. Reroute rear ABS as necessary use the supplied zip ties (**90-6319**) to secure lines.
6. Support the rear axle with a floor jack and remove the **U-bolts** on the driver side. Loosen the **U-bolts** on the passenger side.
7. Remove the factory cast u-bolt guide from the spring assembly by removing leaf spring center pin. This will not be reinstalled. If vehicle comes with potentiometer, install two leaf clamp plates (**35-12429**) to position sensor correctly. Use only one leaf clamp plate (**35-12429**) on passenger side. See **Illustrations 13 and 14**.
8. Install the lift block (**95-404F or 95-405F**) onto the axle pad, making sure the pins are fitted into the holes on the spring perch. Use your floor jack to raise the axle to the spring making sure the tabs on the spring block fit into the holes on the lift block. See **Illustration 14**.

**NOTE: DIFFERENT AXLES MAY REQUIRE SANDING OF THE BLOCK PINS FOR FITMENT.**

9. Secure the assembly with the U-bolts (**13-90390**) supplied in hardware pack and new high-nuts and washers from hardware pack (**20-65302**). Do not tighten the **U-bolts** at this time. See **Illustration 14**.

**NOTE: Make sure the block sits flush on the axle perch.**



10. Repeat the installation on the other side of the vehicle.
11. When the installation of the remaining side is complete, torque the **U-bolts** to **105** ft. lbs.
12. Insert the supplied sleeves (**60859**) in both end of the shocks.
13. Install your new Pro Comp shocks (**932008 w/ shaft end up, PR2122, or 90-40981-00058**) and torque this hardware to **66** ft./lbs.
14. **WITH COILOVERS:** refer to instructions included in 52232BX-2
15. Reinstall the wheels and tires and lower the vehicle to the ground. Torque the factory wheels to **150** ft/lbs.  
**\*\*\*NOTE: If you are using aftermarket wheels follow the manufacturers recommended specifications.**  
**NOTE: If you wish to raise the ride height of the rear of the vehicle, Install the rear leaf spring shims from hardware pack (90-6703) using the enclosed instructions.**

16. If the previously taken driveshaft plunge measurement was 1" or greater, unbolt the rear driveshaft from the rear differential. Slip in new aluminum rear driveshaft spacer (90-44205) and fasten with supplied 12mm X 60mm bolts and washers from hardware pack (90-6493). Be sure to use thread locker on these bolts. See Illustration 15. Rotate the driveshaft to check for binding. If it binds the driveshaft must be cleared by a qualified driveline shop.

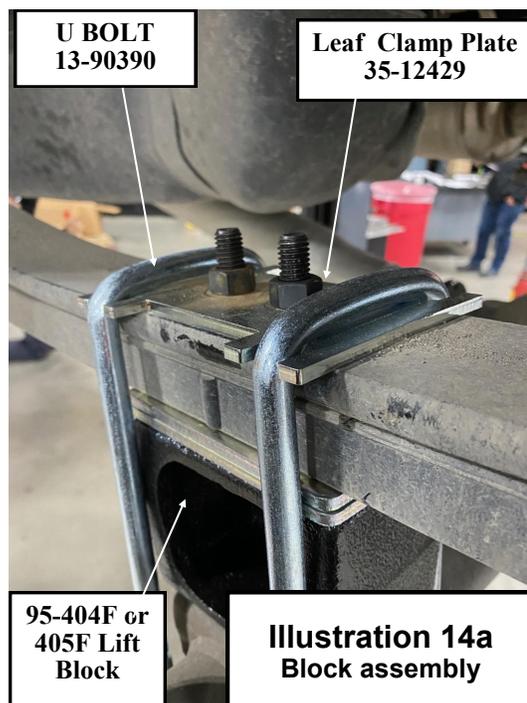
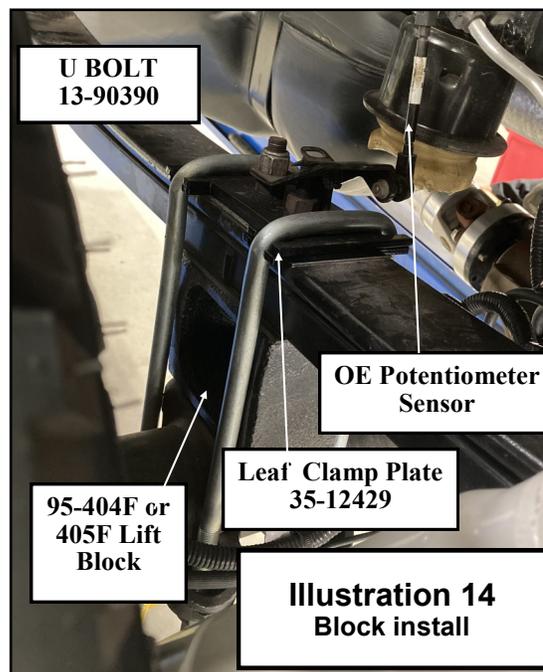
**NOTE:** The use of this driveshaft spacer is intended for light usage only. If the intended usage is for high speed off road, this spacer should not be installed. The factory rear driveshaft should be lengthened by a qualified driveline shop.

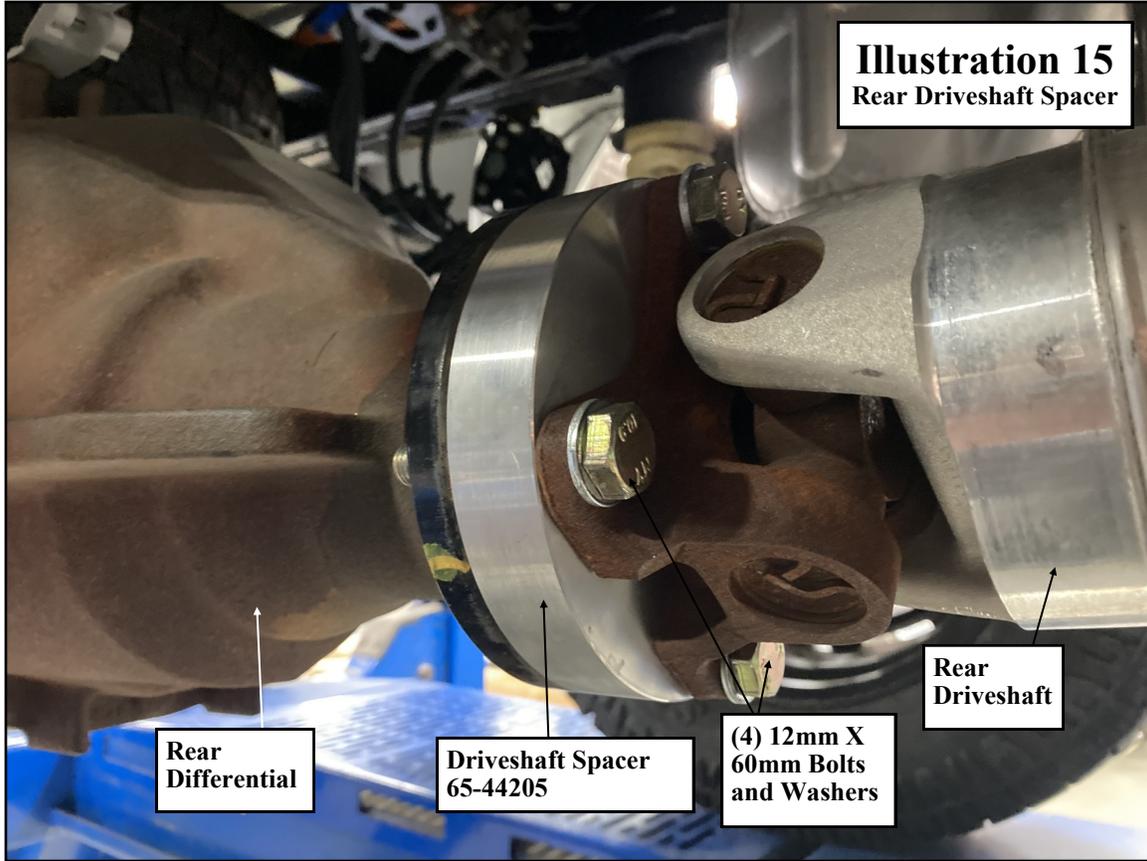
**IMPORTANT!** Fully cycle the rear suspension and check for driveshaft plunge. If the driveshaft is too long it will destroy the transfer case. Pro Comp takes **NO** responsibility for damage caused as a result of the installation of this kit.

17. Recheck all hardware for proper installation and torque at this time.

#### NOTES:

- ⇒ On completion of the installation, have the suspension and headlights re-aligned.
- ⇒ After 100 miles recheck for proper torque on all newly installed hardware.
- ⇒ Recheck all hardware for tightness after off road use.





**Revision Page:**

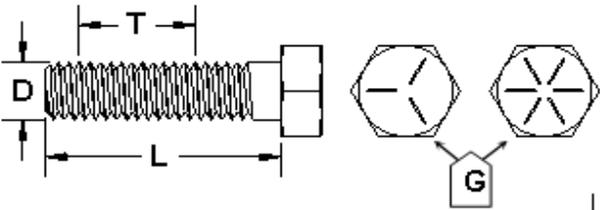
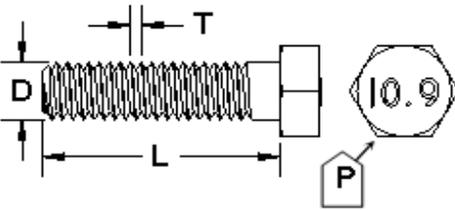
1.11.22: Most recent Revision

1.24.22: Added pictures to show where sanding may be needed for fitment along with updated hardware packs.

Use this only as a guide for hardware without a called out torque specification in the instruction manual.

<b>Bolt Torque and ID</b>						
<b>Decimal System</b>			<b>Metric System</b>			
All Torques in Ft. Lbs. Maximums						
Bolt Size	Grade 5	Grade 8	Bolt Size	Class 9.8	Class 10.9	Class 12.9
5/16	15	20	M6	5	9	12
3/8	30	45	M8	18	23	27
7/16	45	60	M10	32	45	50
1/2	65	90	M12	55	75	90
9/16	95	130	M14	85	120	145
5/8	135	175	M16	130	165	210
3/4	185	280	M18	170	240	290

 <p>1/2-13x1.75 HHCS  <span style="display: inline-block; border: 1px solid black; padding: 2px;">D</span> <span style="display: inline-block; border: 1px solid black; padding: 2px;">T</span> <span style="display: inline-block; border: 1px solid black; padding: 2px;">L</span> <span style="display: inline-block; border: 1px solid black; padding: 2px;">X</span></p> <p style="text-align: center;"><b>Grade 5    Grade 8</b>                  (No. of Marks + 2)</p>	 <p>M12-1.25x50 HHCS  <span style="display: inline-block; border: 1px solid black; padding: 2px;">D</span> <span style="display: inline-block; border: 1px solid black; padding: 2px;">T</span> <span style="display: inline-block; border: 1px solid black; padding: 2px;">L</span> <span style="display: inline-block; border: 1px solid black; padding: 2px;">X</span></p>
<p>G = Grade (Bolt Strength)                  D = Nominal Diameter (Inches)                  T = Thread Count (Threads per Inch)                  L = Length (Inches)                  X = Description (Hex Head Cap Screw)</p>	<p>P = Property Class (Bolt Strength)                  D = Nominal Diameter (Millimeters)                  T = Thread Pitch (Thread Width, mm)                  L = Length (Millimeters)                  X = Description (Hex Head Cap Screw)</p>



## **The PRO COMP PROMISE WARRANTY**

At Pro Comp, we know you have many choices when selecting products to personalize your vehicle. You should demand nothing but the highest quality available and have total confidence that the products you selected are the best in the industry. It is for these reasons that Pro Comp Suspension products are backed by the best warranty in the industry...the Pro Comp Promise!

Pro Comp promises that its products will last a lifetime or we will replace it free of charge. It's that simple! Because of our commitment to quality and manufacturing excellence, we are able to stand behind our products. FOREVER.

It is Pro Comp's Promise that if one of our suspension products breaks not due to misuse, neglect or vandalism, we will replace it. Whether you are the original purchaser or not, you can be assured that we will make it right. The Pro Comp Promise covers all suspension products including shocks and steering stabilizers. Buy Pro Comp Suspension today and enjoy it for the rest of your life!

That's our Pro Comp Promise!

## **Notice to Owner, Operator, Dealer and Installer:**

Vehicles that have been enhanced for off-road performance often have unique handling characteristics due to the higher center of gravity and larger tires. This vehicle may handle, react and stop differently than many passenger cars or unmodified vehicles, both on and off-road. You must drive your vehicle safely! Extreme care should always be taken to prevent vehicle rollover or loss of control, which can result in serious injury or even death. Always avoid sudden sharp turns or abrupt maneuvers and allow more time and distance for braking! Pro Comp reminds you to fasten your seat belts at all times and reduce speed! We will gladly answer any questions concerning the design, function, maintenance and correct use of our products.

Please make sure that the Dealer / Installer explains and delivers all warning notices, warranty forms and instruction sheets included with Pro Comp product.

Warranty and Return Policy:

Pro Comp warrants its full line of products to be free from defects in workmanship and materials for the life of the product. Pro Comp's obligation under this warranty is limited to repair or replacement, at Pro Comp's option, of the defective product. Any and all costs of removal, installation, freight or incidental or consequential damages are expressly excluded from this warranty. Pro Comp is not responsible for damages and / or warranty of other vehicle parts related or non-related to the installation of Pro Comp product. A consumer who makes the decision to modify his vehicle with aftermarket components of any kind will assume all risk and responsibility for potential damages incurred as a result of their chosen modifications. Warranty coverage does not include consumer opinions regarding ride comfort, fitment and design. Warranty claims can be made directly with Pro Comp or at any factory authorized Pro Comp dealer.

**IMPORTANT!** To validate the warranty on this purchase please be sure to mail in the warranty card.

Claims not covered under warranty

\* Parts subject to normal wear; this includes bushings, bump stops, ball joints, tie rod ends and heim joints.

\* Finish after 90 days.

\* Damage caused as a result of not following recommendations or requirements called out in the installation manuals.

Pro Comp MX Series coil-over shocks are considered a serviceable shock with a one-year warranty against leakage only. Rebuild service and replacement parts will be available and sold separately by Pro Comp. Contact Pro Comp for specific service charges. Pro Comp accepts no responsibility for any altered product, improper installation, lack of or improper maintenance or improper use of our products.

**E-Mail: [info@procompusa.com](mailto:info@procompusa.com)**  
**Website: [www.procompusa.com](http://www.procompusa.com)**  
**Fax: (310) 747-3912**  
**Ph: 1-800-776-0767**

<b>PLACE</b>
<b>WARRANTY REGISTRATION</b>
<b>NUMBER</b>
<b>HERE:</b> _____