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PRO COMP SUSPENSION

IMPORTANT: On gas equipped vehicles be sure to check the clearance between the driveshaft and the exhaust. If there is contact take the vehicle to a qualified exhaust shop for modification.

Part # 52802B K4175B/BMX/BMXR/BF/BFR/T/M
2011-2013 Ford Super Duty 4WD F250 Gas
Stage 1 Lift Kit

Part # 52802B K4177B/BMX/BMXR/BF/BFR/T/M
2011-2013 Ford Super Duty 4WD F250 Diesel
Stage 1 Lift Kit
with Add-A-Leaf

Part # 52802B K4179B/BMX/BMXR/BF/BFR/T/M
2011-2013 Ford Super Duty 4WD F350 Gas
Stage 1 Lift Kit
with Add-A-Leaf

Part # 52802B K4181B/BMX/BMXR/BF/BFR/T/M
2011-2013 Ford Super Duty 4WD F350 Diesel
Stage 1 Lift Kit
with Add-A-Leaf

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.

Box 1 of 4-PN 52802B-1

Part #Description

91-7026	SWAY BAR DROP: Drvr	1	9	11
91-7029	SWAY BAR DROP: Pass	1	9	11
90-6340	HARDWARE PACK: Sway Bar Drop	1	-	-
70-0431251800	7/16" X 1 1/4" GR. 8 HEX BOLT	4	9	11
73-04300034	7/16" HARDENED FLAT WASHER	8	9	11
72-04300100816	7/16" GR. 8 STOVER NUT	4	9	11
91-3822	SWAY BAR SPACER	1	9	11
91-3823	STEERING STABILIZER BRACKET	1	9	11
90-6315	HARDWARE PACK: Sway Bar Drop	1	-	-
70-0431751800	7/16" X 1 3/4" GR. 8 HEX BOLT	4	9	11
73-04300034	7/16" HARDENED FLAT WASHER	8	9	11
72-04300100816	7/16" GR. 8 STOVER NUT	4	9	11
90-6803	HARDWARE PACK: Steering Stabilizer	1	-	-
70-0120651758800	12mm- 1.75 X 65mm 10.9 HEX BOLT	1	9	11
73-01217508812	12mm FLAT WASHER	2	9	11
72-01200832	12mm- 1.75 STOVER NUT	1	9	11
91-9290	TRACK BAR DROP BRACKET	1	3	7
90-6772	HARDWARE PACK: Track Bar Drop	1		
56C300HCS8Y	9/16" X 3" HEX BOLT GR. 8	2	3	7
56C150HCS8Y	9/16" X 1 1/2" HEX BOLT GR. 8	1	3	7
56CNUCZ	9/16" STOVER NUT GR. C	3	3	7
56NWHYD/SAE	9/16" HARDENED FLAT WASHER	6	3	7
FD-800-1	PITMAN ARM	1	1	6
95-407SD	4" REAR LIFT BLOCK: Drvr: F-250	1	10	14
95-406SD	4" REAR LIFT BLOCK: Pass: F-250	1	10	14
13-90540	U-BOLT: F-250	4	10	14
20-65471	HARDWARE PACK: 5/8" Hi nuts & Washers	1	10	14
91-2511	BUMP STOP SPACER	2	7	10
90-6390	HARDWARE PACK: Bump Stop	1	-	-
70-0436501800	7/16" X 6 1/2" USS GR. 8 HEX BOLT	2	7	10
73-04300034	7/16" SAE FLAT WASHER	4	7	10
72-04300100816	7/16" USS GR.8 STOVER NUT	2	7	10
90-6042	HARDWARE PACK:Rear Sway Bar Links	1	-	-
45359	5/8" RUBBER HOURGLASS BUSHING	4	-	-
60859H	5/8" O.D. X 12mm I.D. X 1.480" SLEEVE	4	-	-
90-6572	HARDWARE PACK:Rear Sway Bar Links	1	-	-
.120C750HCS1Z	12mm-1.75 X 70mm HEX BOLT GR. 10.9	4	-	-
.120CNNEZ	12mm-1.75 NYLOCK NUT	4	-	-
.120NWHYD	12mm HARDENED FLAT WASHER	8	-	-
91-2446	REAR SWAY BAR END LINKS	2	-	-
96-5002	PITMAN ARM TOOL	1	2	7
90-6595	HARDWARE PACK: Pitman Arm Tool	1	-	-

Part #	Description	Qty.	Illus.	Page
	THREAD LOCKER	1	-	-
0431251800	7/16" X 1 1/4" GR. 8 HEX BOLT	1	2	7
04300030	7/16" FLAT WASHER	1	2	7
04300100512	7/16" NYLOC NUT	2	2	7
90-7031	BRAKE LINE MOUNT: Rear	1	10	14
90-6773	HARDWARE PACK: Brake Line Mount	1	-	-
0431251800	3/8" X 1" HEX BOLT GR. 8	1	10	14
04300100512	3/8" NYLOCK NUT GR. 5	1	10	14
	3/8" HARDENED FLAT WASHER	2	10	14
72-01015008812	10MM X 1.5 PITCH NYLOCK: Rear E-Brake Bracket	1	10	14
90-7722	FRONT BRAKE LINE DROP BRACKET: Drvr	1	7	10
90-7723	FRONT BRAKE LINE DROP BRACKET: Pass	1	7	10
Box 2 of 4-PN 52800B-2				
90-6386	HARDWARE PACK: Radius Arm	1	-	-
90-2507	RADIUS ARM SPACER TUBE	2	4	8
91-3166	RADIUS ARM DROP SIDE PLATE	2	4,5,6	8,9
91-3167	RADIUS ARM DROP SIDE PLATE (With Notch)	2	4,5,6	8,9
90-6370	HARDWARE PACK: Radius Arm Drop	1	-	-
70-0751501800	3/4" X 1 1/2" HEX BOLTS GR. 8	4	4	8
72-075100816	3/4" STOVER NUTS	6	4	8
73-07500830	3/4" WASHERS SAE GR. 8	12	4	8
70-0755001800	3/4" X 5 HEX BOLTS GR. 8	2	4	8
70-0431501800	7/16" X 1 1/2" HEX BOLTS GR.8	8	5	9
72-043100816	7/16" STOVER NUTS	8	5	9
73-04300830	7/16" WASHERS SAE GR. 8	16	5	9
90-6569	HARDWARE PACK: Driveline Shim	1	-	-
90-1080	3/8" Driveline Shim	2	-	-
90-1081	1/4" Driveline Shim	2	-	-
90-1082	1/8" Driveline Shim	2	-	-
90-6013	HARDWARE PACK: Driveline Shim	1	-	-
70-04322501800	7/16" x 2 1/4" USS Grade 8 Bolt	2	-	-
73-04300042	7/16 USS Hardened Washer	2	-	-
90-6918	HARDWARE PACK: Cam Plates	1	-	-
90-9295	Cam Plate	2	3	7
Box 3 of 4-PN 52413B-3				
926553	FRONT SHOCKS	2	-	-
932008	REAR SHOCKS	2	-	-
(OR) Box 3 of 4				
MX6154	MX6 FRONT SHOCKS	2	-	-
MX6018	MX6 REAR SHOCKS	2	-	-
(OR) Box 3 of 4-PN 52800BMXR-3				
MX6065R	MX6R FRONT SHOCKS	2	-	-
MX6069R	MX6R REAR SHOCKS	2	-	-
90-6518	HARDWARE PACK: MX6R Front Shocks	2	-	-
600026	3/4" HOURGLASS URETHANE BUSHING	1	-	-
113600020	SLEEVE	1	-	-
690002	1" SHOCK MOUNT ADAPTER: Front Shocks	2	-	-
63012	EXTERNAL RESERVIOR MOUNTING KIT	4	-	-
5242	24" LIMIT STRAP	2	-	-

Part #	Description	Qty.	Illus.	Page
90-6573	HARDWARE PACK: Limit Straps	1	-	-
70-0503751800	1/2" X 3 1/4" GR. 8 HEX BOLT	2	-	-
72-050100512	1/2" NYLOCK NUT	2	-	-
73-05000034	1/2" SAE FLAT WASHER	6	-	-
72-062100512	5/8" NYLOCK NUT	2	-	-
73-06200034	5/8" USS FLAT WASHER	2	-	-
(OR) Box 3 of 4-PN 52800BF-3				
FX6305	FOX 2.0 RESERVOIR FRONT SHOCKS	2	-	-
FX6306	FOX 2.0 RESERVOIR REAR SHOCKS	2	-	-
(OR) Box 3 of 4-PN 52800BFR-3				
FX6308	FOX 2.0 EMULSION FRONT SHOCKS	2	-	-
FX6309	FOX 2.0 EMULSION REAR SHOCKS	2	-	-
Box 4 of 4-PN 52800B-4				
13150-1	ADD-A-LEAF	2	10	14
13150-2	ADD-A-LEAF	2	10	14
90-7130	HARDWARE PACK: Add-A-Leaf	1	-	-
98-00300-1	3" SPRING CLAMP	4	10	14
98-003002	3" SPRING PLATE	4	10	14
97-716	7/16" X 4 1/2" CENTER BOLT	2	10	14
8771-1	7/16" GR. 8 CENTER BOLT NUT	2	10	14
90-6337	HARDWARE PACK: Add-A-Leaf	1	-	-
97-165	10MM X 165MM CENTER PIN	2	10	14
72-01015008812	10MM-1.5 NUT (CENTER BOLT NUT)	2	10	14
PN 52560 w/ Kits: K4179 & K4181 ONLY!				
95-556SD	5 1/2" REAR LIFT BLOCK: F-350	1	10	14
95-557SD	5 1/2" REAR LIFT BLOCK: F-350	1	10	14
13-90560	U-BOLT: F-350	4	10	14
20-65471	HARDWARE PACK: 5/8" Hi nuts & Washers	1	10	14
(OR) 926553B/ 932008B (K4175T/77T/79T/81T)				
926553B	FRONT SHOCKS	2	-	-
932008B	REAR SHOCKS	2	-	-
(OR) PR2032/ PR2004 (K4175M/77M/79M/81M)				
PR2032	FRONT SHOCKS	2	-	-
PR2004	REAR SHOCKS	2	-	-

Special Tools:

Pitman Puller	Snap-On PN	CJ1119B
Tie Rod Separator	Ford PN	T64P-3590-F

The following parts are used in conjunction with this kit and must be purchased separately.

24514	COILS GASOLINE ENGINE: W/ K4175/K4179	1	-	-
OR				
24515	COILS DIESEL ENGINE: W/ K4177/K4181	1	-	-

Important!

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, we recommend a wheel not to exceed 10" in width with a maximum backspacing of 5 3/4" must be used. Additionally, a quality tire of radial design, not exceeding 37" tall X 12.50" wide is also recommended. 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.

Introduction:

- ◆ **This installation requires a professional mechanic!**
- ◆ We recommend that you have access to a factory service manual 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 arms. 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** 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.**
- ◆ 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.
- ◆ A pitman arm removal tool and tie rod separating tool are required to perform the installation. See the special tools at the top of page 4.
- ◆ Always use NEW cotter pins on re-assembly! (These items are NOT supplied)
- ◆ **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.**

Optional Equipment Available from your Pro Comp Distributor!

72101: TRACTION BAR MOUNTING KIT
72301: PLATE TRACTION BAR KIT (must be used with kit 72101)
72300: TUBE TRACTION BAR KIT (must be used with kit 72101)
52480: CARRIER BEARING SHIM KIT
599: ALIGNMENT CAM KIT
222582: DUAL STEERING STABILIZER
222582F: FOX DUAL STEERING STABILIZER
91-7057B: TRANSFER CASE SKID PLATE

Also, check out our outstanding selection of **Pro Comp** tires
to compliment your new installation!

Front Installation:

1. Position your vehicle on a smooth, flat, hard surface (i.e. concrete or asphalt). Block the rear tires and set the emergency brake.
2. Measure and record the distance from the center of each wheel to the top of its fender opening. Record below.
3. Place the vehicle in neutral. Place your floor

LF: _____ RF: _____

LR: _____ RR: _____

jack under the front axle and raise the vehicle. Place jack stands under the frame rails and lower the frame onto the stands. Remove the jack and place the vehicle back in gear, set the emergency brake, and place blocks both in front and behind the rear wheels.

4. Remove the track bar bolt from the driver side frame mount. Save this hardware for re-use.
5. Remove the cast track bar mount on driver side of frame. Save the bolts and pal nuts. Hardware will be reused.
6. Unbolt the sway bar from the sway bar end links on both sides of the vehicle. Save the hardware for reuse.
7. Mark the orientation of the sway bar and unbolt it from the frame of the vehicle. Save the hardware for reuse.
8. If the vehicle is equipped with a factory steering stabilizer unbolt it and remove it from the vehicle.
9. Remove the cotter pin and nut from drag link, at the pitman arm. Save the nut for reinstallation. Use a tie rod separator to separate drag link from Pitman arm.
10. Remove the sector Pitman arm retaining nut and save for reinstallation. Use a Pitman arm puller to remove the OE pitman arm. The threads of the sector shaft and the Pitman arm retaining nut must be cleaned of all factory dry adhesive.

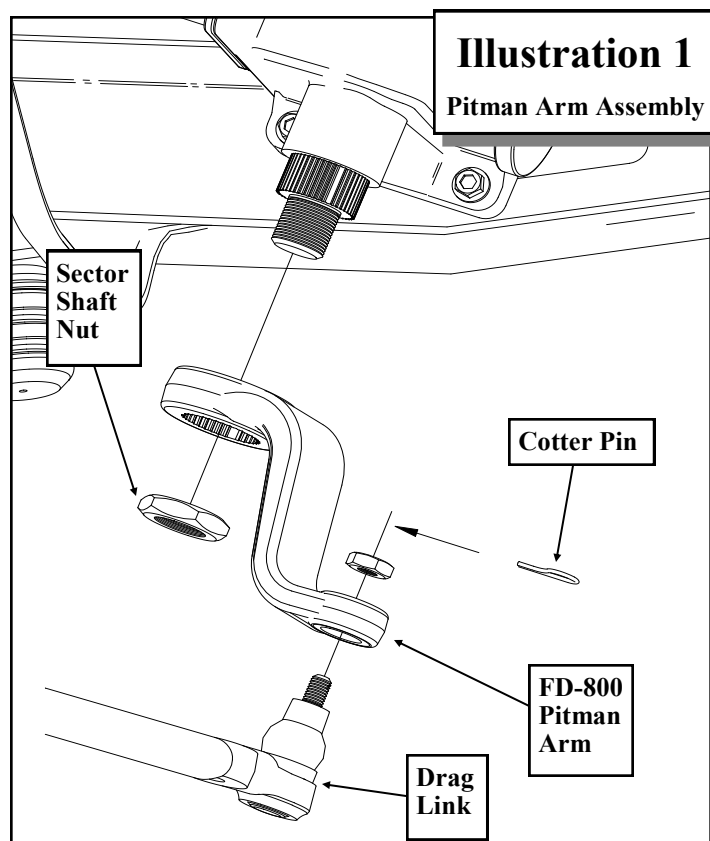
IMPORTANT!: THE ENTIRE INSTALLATION PROCESS MUST BE DONE WITH HAND TOOLS TO ENSURE PROPER INSTALLATION. DO NOT USE IMPACT TOOLS.

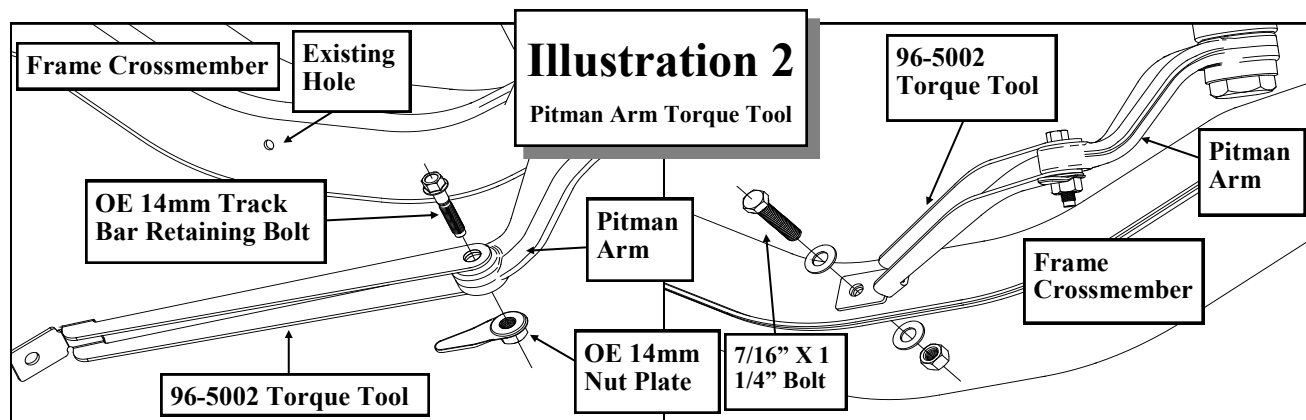
11. Install new pitman arm on sector shaft. Oil the sector shaft threads to ensure a proper torque reading. Install Pitman arm retaining nut and tighten until snug. **See Illustration 1.**
12. Insert the key and unlock the steering wheel.
13. Install the Pitman arm torque tool (96-5002) to the Pitman arm using one of the previously removed **OE 14mm** track bar bracket outer retaining bolt and nut plate. **See Illustration 2.**
14. Secure the torque tool (96-5002) to the existing hole in the frame crossmember using the supplied 7/16" X 1 1/4" bolt and hardware. **See Illustration 2.**

NOTE: The steering wheel may need to be turned in order for the hole in the torque tool and the frame crossmember to line up. Once the bolts are tightened the torque tool will align it's self properly.

NOTE: The use of the torque tool is to keep the Pitman arm from moving right or left, but allow for movement up the sector shaft. If you do not have this tool, a length of chain or a flat bar with two holes is a suitable replacement.

15. Torque the Pitman arm retaining nut to 375 ft./lbs.





16. With the torque tool (96-5002) still in place remove the pitman arm retaining nut. The threads of the sector shaft and the Pitman arm retaining nut ***MUST*** be cleaned using brake cleaner or another suitable method to remove the previously applied oil.

17. Use the entire supplied thread locking compound to thoroughly cover the entire surface of the threads on the Pitman arm retaining nut.

18. Reinstall the Pitman arm retaining nut to the sector shaft and torque to 350 ft./lbs.

NOTE: Whether re-using the existing pitman arm retaining nut or replacing with a new nut, the supplied locking compound must be used.

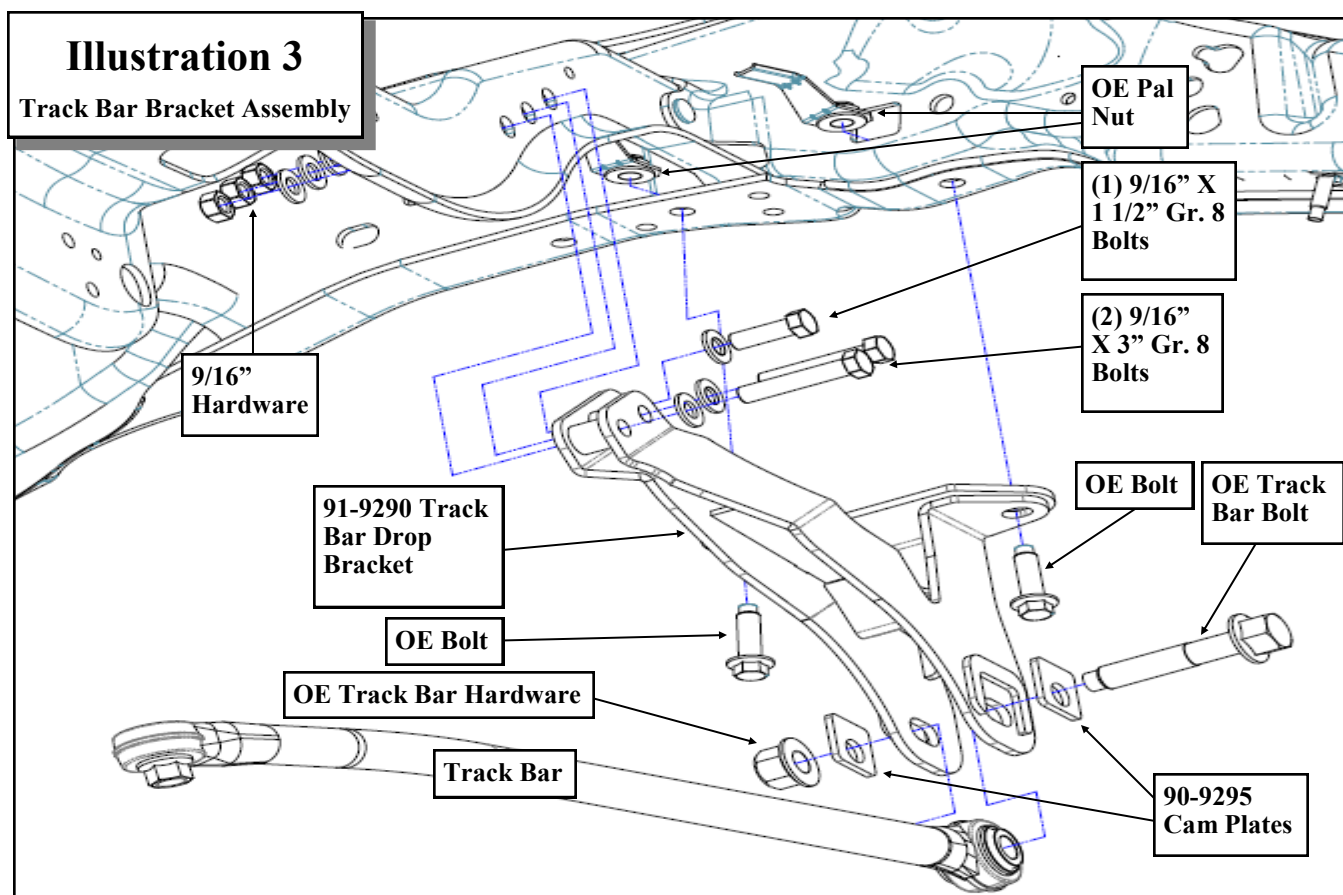
19. Unbolt and remove the Pitman arm torque tool (96-5002) from the vehicle.

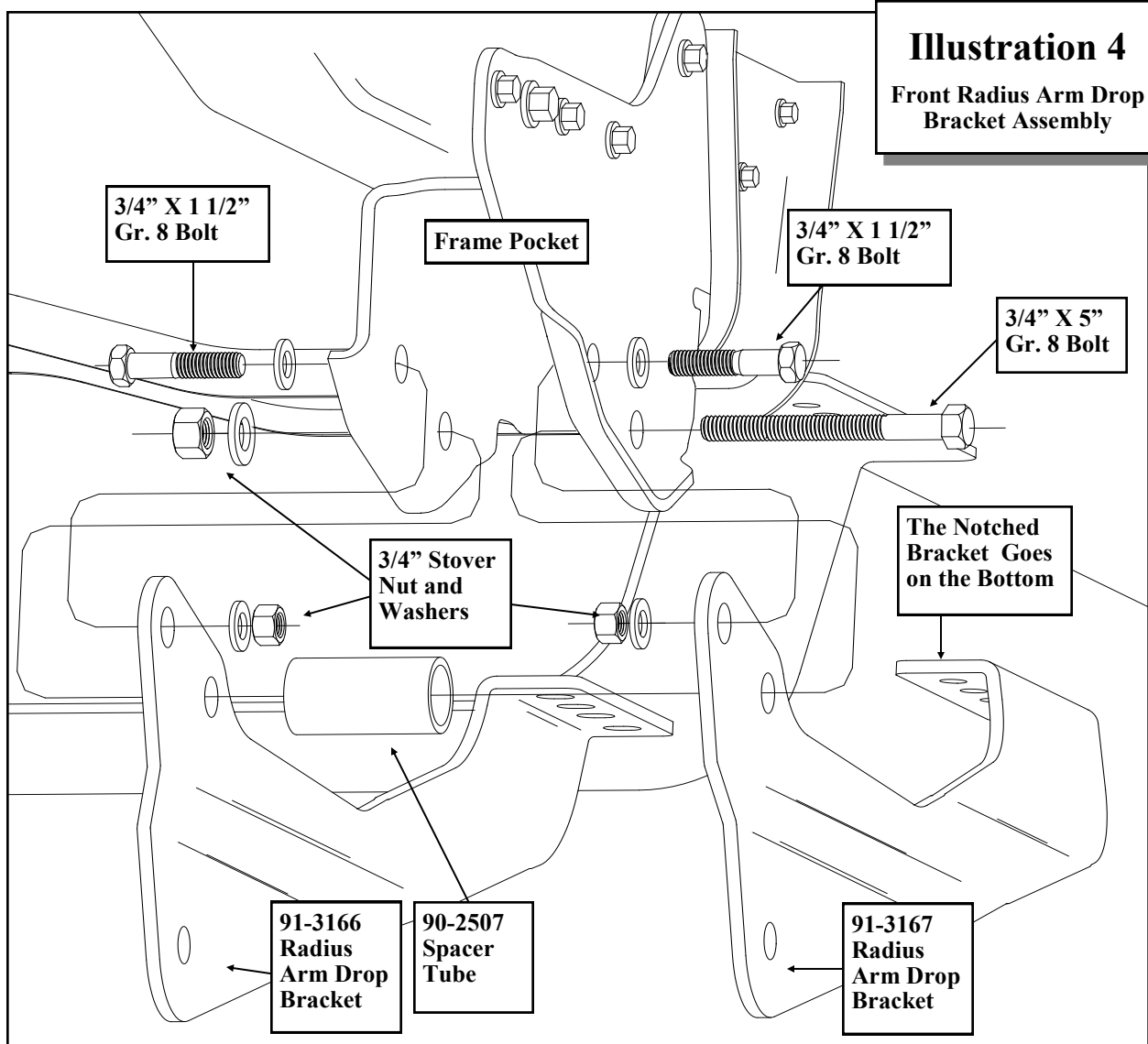
NOTE: Save this Pitman arm torque tool to add to your toolbox for any future Pitman arm installations.

20. Install track bar drop bracket (91-9290) using (2) 9/16\" X 3\", (1) 9/16\" X 1 1/2\" and (2) OE bolts. Use thread locker on the bolts. Torque OE the bolts to 129 ft. lbs. and the 9/16\" bolts to 110 ft. lbs. See ILLUSTRATION 3.

21. Unbolt the front brake line bracket from the lower spring perch. Save hardware for re-use.

22. Unbolt and unclip the ABS wiring connect-





ed to the radius arm. Save hardware for re-use.

23. On the driver side, unclip the axle vent line from inside the frame.
24. On the passenger side unclip the axle hub vacuum line from inside of the axle bump stop plate.
25. Remove the transfer case skid plate. Also remove the rubber grommets, sleeves and clips from the frame.

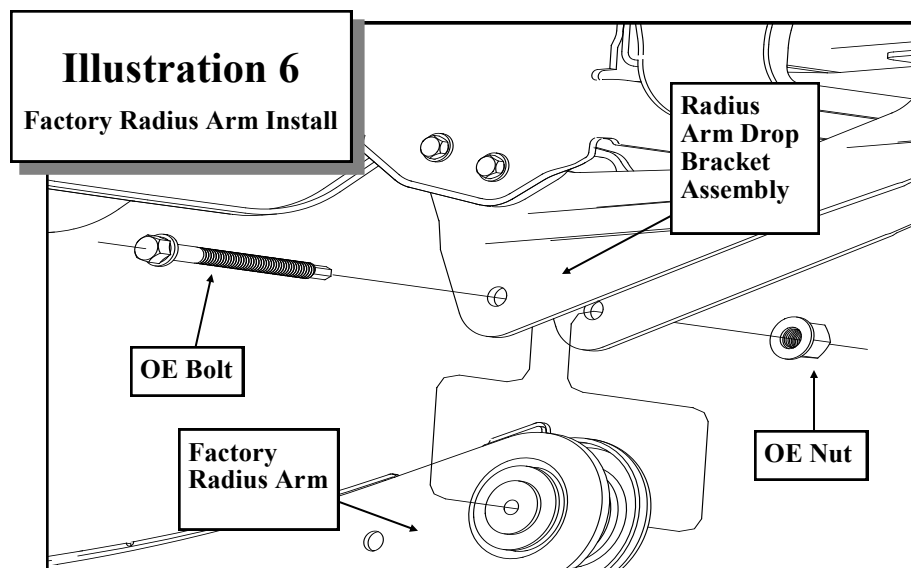
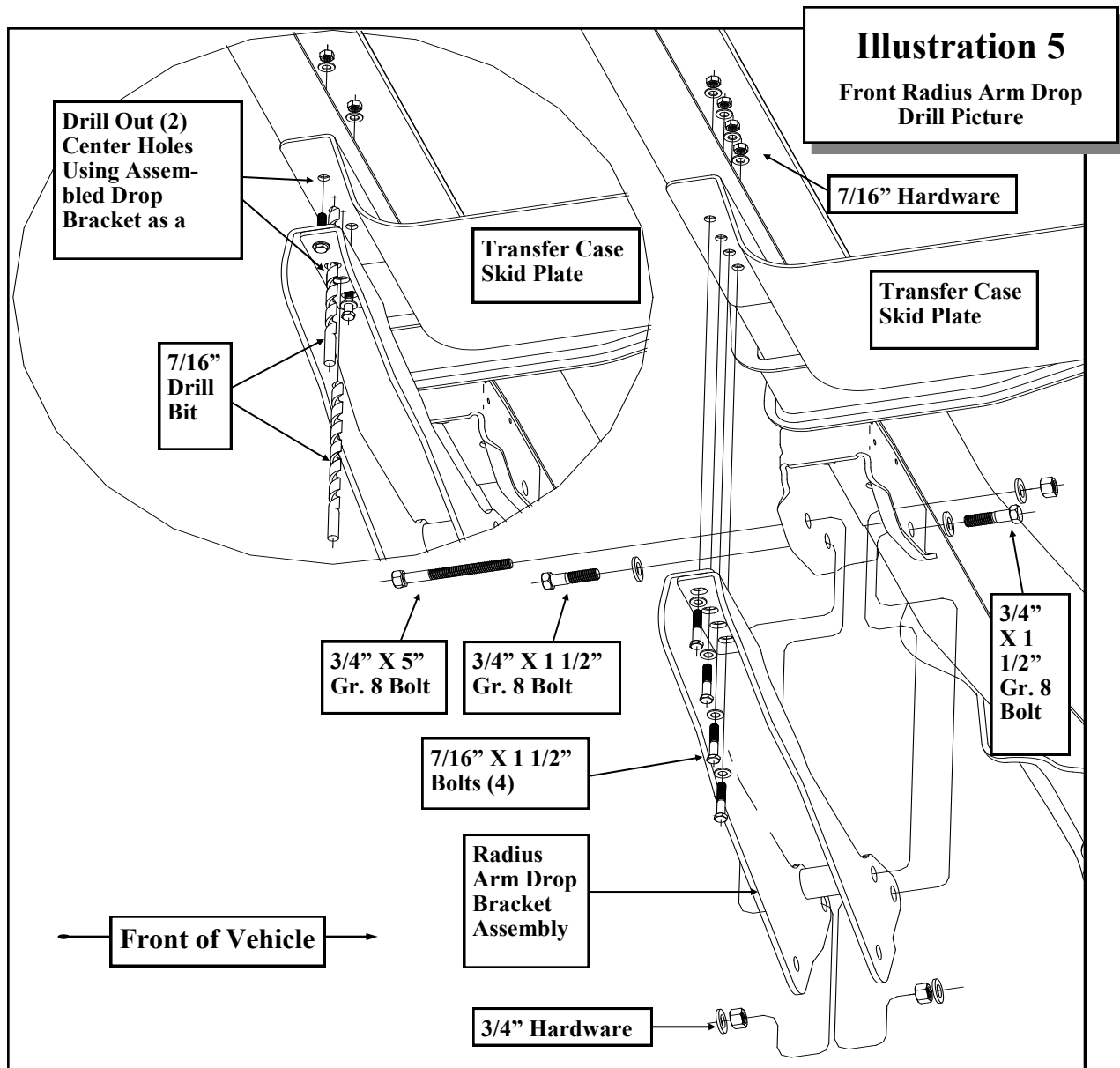
NOTE: Trimming of the transfer case skid plate is necessary for reinstallation.

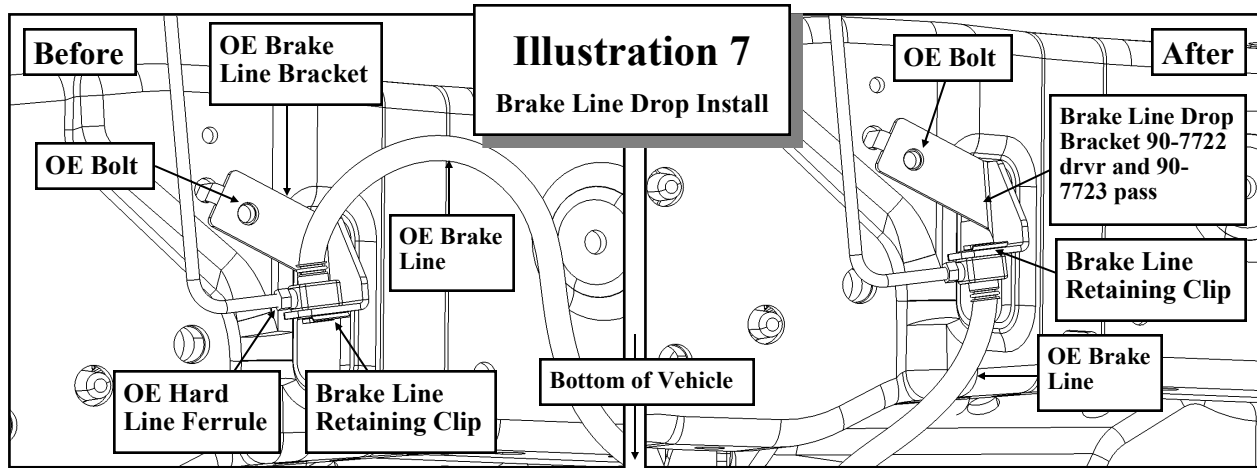
On the passenger side, use the supplied transfer case skid plate cut template (52802B-Supplement) as a guide. Line up the holes and trace the template onto the skid plate. carefully trim the skid plate. This modification is needed to clear the catalytic converter .

On the driver side, carefully trim off

the rounded kick out in the side of the skid plate. These modification is needed to clear the transfer case. These are only starting points and additional trimming may be necessary.

26. Place a jack under the pinion or radius arm. On both sides remove the rear bolts holding the radius arms to the frame of the vehicle.
27. Carefully rotate both radius arms down to provide adequate space to install the new drop brackets.
28. On both sides of the vehicle, assemble the radius arm drop side plates (**91-3166 on top**) and (**91-3167, with the notch in it, on the bottom**) and bolt radius arm drop to the frame. Use the supplied 3/4" X 1 1/2" bolts in the front hole with the heads of the bolts facing out. Do not torque at this time. See ILLUSTRATION 4.





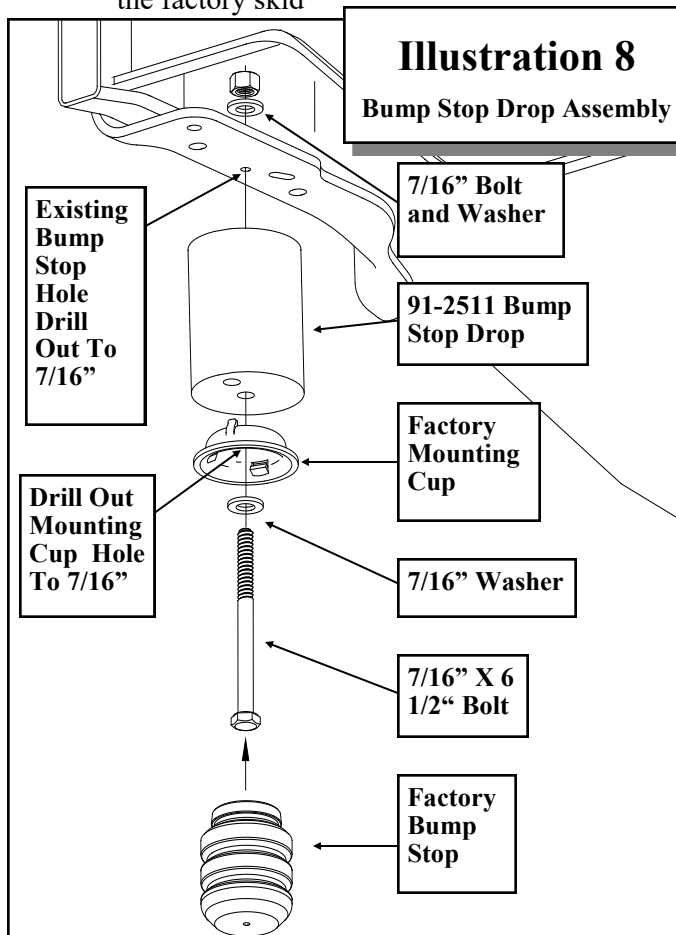
29. Use the spacer tube (90-2507) and the 3/4" X 5" bolt in the rear hole. Do not torque at this time. See ILLUSTRATION 4.
30. From the rear, slide the previously removed and modified OE transfer case skid plate or the new transfer case skid plate (91-7057) in between the frame and the rear of the radius arm drop bracket. Insert (2) 7/16" X 1 1/2" bolts through the outside holes in the rear of the drop bracket. Tighten these bolts and use the radius arm bracket holes as a drill template to drill out the (2) inside holes in the factory skid

plate and frame. Drill the holes using a 7/16" drill bit. Insert the remaining (2) 7/16" X 1 1/2" bolts in the newly drilled holes. See ILLUSTRATION 5.

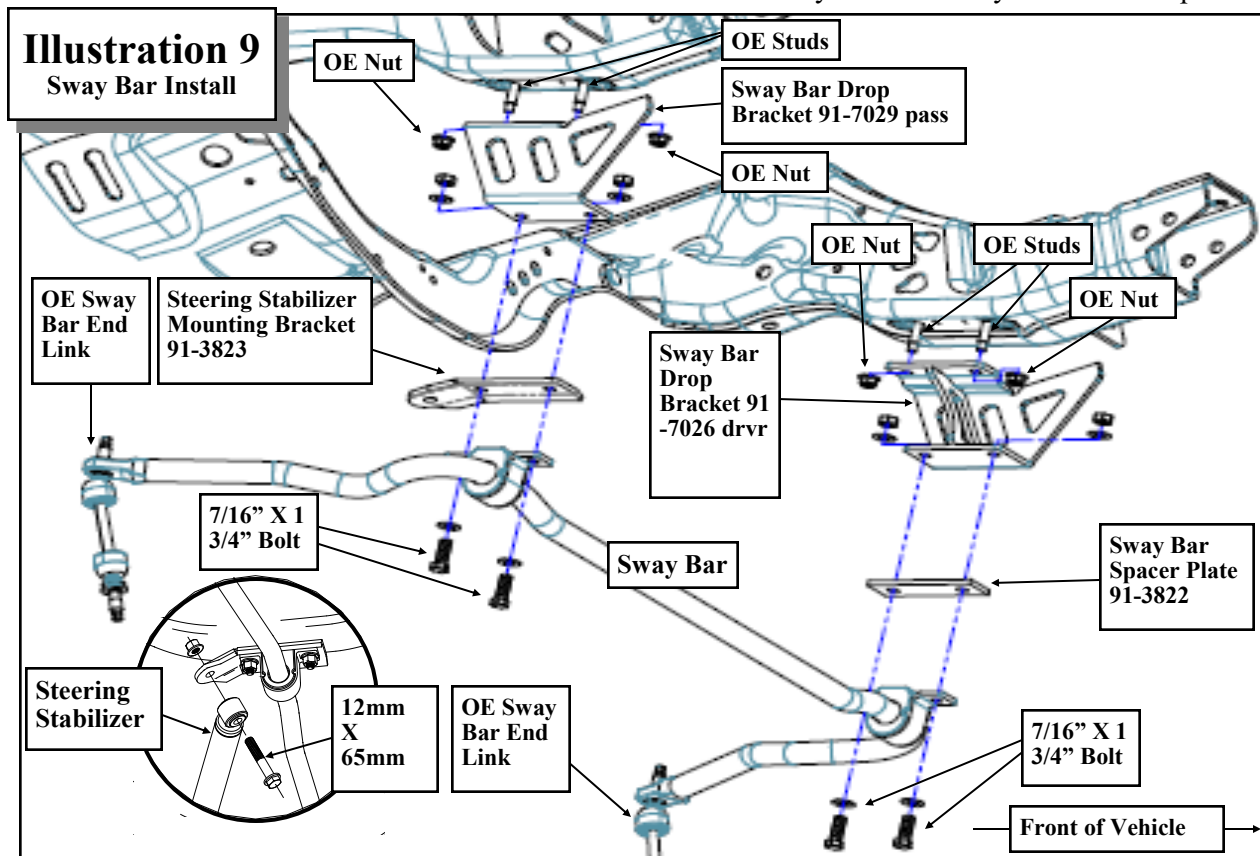
31. Raise the factory radius arm into the lower hole in the drop bracket and skid plate. Secure using the OE bolt. Do not tighten this bolt until vehicle is on the ground. See ILLUSTRATION 6.
32. Torque the 7/16" radius arm drop bracket hardware to 60 ft. lbs. and the 3/4" hardware to 200 ft. lbs.
33. Raise the front axle enough to relieve tension on the shock hardware and remove the shocks from the vehicle.
34. Lower the front axle enough to remove the coil springs from the front spring pockets. Save the factory isolators for re-use.

NOTE: Be sure to support the axle while the springs and shocks are removed.

35. Remove the front brake line retaining clip. Separate the brake line from the bracket. Save the OE clip for reinstallation. See ILLUSTRATION 7.
36. Loosen the OE hard line ferrule, just enough, to be able to rotate it 180 degrees so the rubber line is facing toward the bottom of the vehicle and retighten. See ILLUSTRATION 7.
37. Unbolt and remove the OE brake line bracket from the frame. Save the OE bolt for reinstallation.
38. Install the new brake line drop bracket (90-7722 Drvr and 90-7723 Pass) to the original hole in the frame rail using the previously removed OE bolt. See ILLUSTRATION 7.



39. Secure the brake line to the new bracket using the previously removed **OE** clip. See ILLUSTRATION 7.
 40. Remove the factory front bump stop from the bump stop mounting cup. Pliers and a back and forth rocking motion will assist in removal of the bump stop.
 41. On the driver side, unbolt the bump stop mounting cup and drill out the factory hole in the frame and bump stop mounting cup to 7/16".
 42. On the passenger side, unbolt the bump stop mounting cup. Measure in toward the engine 5/8" from the center of the factory bump stop hole in the frame. Center punch and drill and the new hole 7/16" in the frame. Drill out the bump stop mounting cup to 7/16".
 43. Use the supplied 7/16" X 6 1/2" bolt and hardware to bolt the bump stop drop (91-2511) and mounting cup to the bump stop hole in frame. See ILLUSTRATION 8.
- NOTE: Be sure to fit the tab from the mounting cup into the hole in the drop.**
44. Reinstall the previously removed factory bump stop into the mounting cup on the new bump stop drop. See ILLUSTRATION 8.
 45. Using the factory isolators install the supplied front coil springs (24514 Gas or 24515 Diesel) into the spring buckets and raise the axle into place. Make sure the coil spring seats properly on the lower spring perch.
 46. Install the new shocks (926553, MX6154, MX6065R, FX6305 or FX6508). Torque the upper mounting hardware to 46 ft. lbs. and the lower mounting hardware to 111 ft. lbs. Use thread locker on these bolts.
- NOTE: If installing the (MX6065R), Press out the existing sleeve and bushing on the shaft end and replace them with bushing (600026) and sleeve(113600020) from hardware pack (90-6518).**
- NOTE: Use the (2) limit straps (5242) and hardware from pack (90-6573) when installing the MX6R shocks. Secure the limit straps to the upper and lower shock mounting bolts.**
47. Install draglink end into pitman arm and torque draglink nut to 148 ft. lbs. Reinstall cotter pin.
 48. Install the sway bar drops (91-7026 driver and 91-7029 passenger) to the OE sway bar mounting studs on the frame using the previously removed **OE** hardware. See ILLUSTRATION 9.
 49. Carefully raise the sway bar back into place



and on the passenger side insert the steering stabilizer bracket (91-3823) under the passenger side sway bar mount. On the driver side insert the sway bar spacer plate (91-3822) under the driver side sway bar mount. Secure the supplied 7/16" X 1 3/4" bolts and hardware. See ILLUSTRATION 9.

NOTE: Be sure the steering stabilizer mounting hole in the stabilizer bracket is oriented toward the rear of the vehicle.

50. Reattach the sway bar to the OE sway bar end links using the previously removed OE hardware.
51. Install the OE steering stabilizer to the new steering stabilizer bracket (91-3823) using the provided 12mm X 65mm bolt and hardware. See ILLUSTRATION 9.
52. Torque all sway bar hardware according to manufacturers specifications.
53. On the driver side, re clip the axle vent line on the frame providing adequate slack for the line at full droop.
54. On the passenger side, reposition the clip on the axle hub vacuum line to provide adequate slack to re-clip the line to the existing hole on the outside of the bump stop plate.

NOTE: Be sure that the newly rerouted vent line does not interfere with the travel of the bump stop.

55. Remove the ABS line from the inner fender. Drill a new hole, using a 15/64" bit, 3" lower in the fender to provide adequate slack for line and reattach the ABS line.
56. Reinstall the ABS wiring onto the radius arms using the factory clips.
57. Refasten the lower brake line mount to the lower coil spring perch using the OE hardware.
58. Reinstall the front wheels and lower the vehicle to the ground. Torque to manufacturers specs.
59. Torque the OE rear Radius arm bolts to 222 ft. lbs.
60. Reinstall the track bar into the Pro Comp track bar bracket (91-9290) using the OE bolt and adjustable cam plates (90-9295). Torque to 406 ft. lbs. See ILLUSTRATION 3.

NOTE: You may find that having someone inside the vehicle and moving the steering wheel from side to side will aid in the alignment of the track bar. DO NOT start the engine for this! You only have to move it

enough to line the holes up on the track bar mount.

61. 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 either component. At full droop, cycle the steering from lock to lock while observing the reaction of these components. Reposition them if needed.
62. With the vehicle fully on the ground, measure the clearance between each tire and inner fender. If the axle is not properly centered, readjust the track bar cam hardware. Torque to 406 ft.

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.**

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 wheels and tires.
3. Unscrew the rear axle vent tube to separate the rear brake line bracket from the rear axle.
4. 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.
5. On the driver side, unbolt the emergency brake line bracket from the upper spring plate. Save hardware for reuse.
6. If your vehicle is equipped with factory sway bar, unbolt it from the end links. Unbolt and remove the end links from the vehicle.
7. Support the rear axle with a floor jack and remove the **U-bolts** on the driver side. Slightly loosen the **U-bolts** on the passenger side.
8. Lower the rear axle and remove the factory block.

NOTE: *Be sure not to over extend the rear brake line and rear axle vent line.*

9. While supporting the rear leaf spring, remove the factory spring mounting bolts and remove the leaf spring from the driver side only at this time.
10. Disassemble leaf spring and insert the add-a-leaves (**13150-1** and **13150-2**).

NOTE: *The add-a-leaves will be added onto the bottom of the factory spring pack, progressively according to length. Do not install the add-a-leaves below the factory overload spring if the vehicle is equipped with one. See ILLUSTRATION 10.*

11. Using the C-clamps, bolt the leaf pack back together using the supplied center bolt with the head of the bolts facing down and the nut on the top. Reinstall the spring pack to the hangers using the **OE** hardware. Do not torque at this time.

NOTE: ***DO NOT** trim the excess center bolt on the driver side. The extra threads will be needed to attach the OE emergency brake line bracket.*

12. Install the supplied lift block (**F-250: 95-407SD drvr and 95-406SD pass**) or (**F-350: 95-556SD drvr and 95-557SD pass**) depending on

APPLICATIONS:

1. **FOR F-250 MODELS, INSTALL THE ADD-A-LEAVES (13150-1 AND 13150-2) AND LIFT BLOCK 95-407SD DRVR AND 95-406SD PASS.**
2. **FOR F-350 MODELS, INSTALL THE ADD-A-LEAVES (13150-1 AND 13150-2) AND LIFT BLOCKS 95-556SD DRVR AND 95-557SD PASS.**

application. See the side note for proper applications. Make sure the pin fits into the hole on the spring perch. Use your floor jack to raise the axle to the spring making sure the pin on the factory leaf spring assembly fits into the hole on the lift block. Secure the assembly with the **5/8" U-bolts (F-250: 13-90540 or F-350 13-90560) 5/8" hi-nuts (PN 20-65471)** and washers supplied. Do not torque the hi-nuts at this time. See ILLUSTRATION 10.

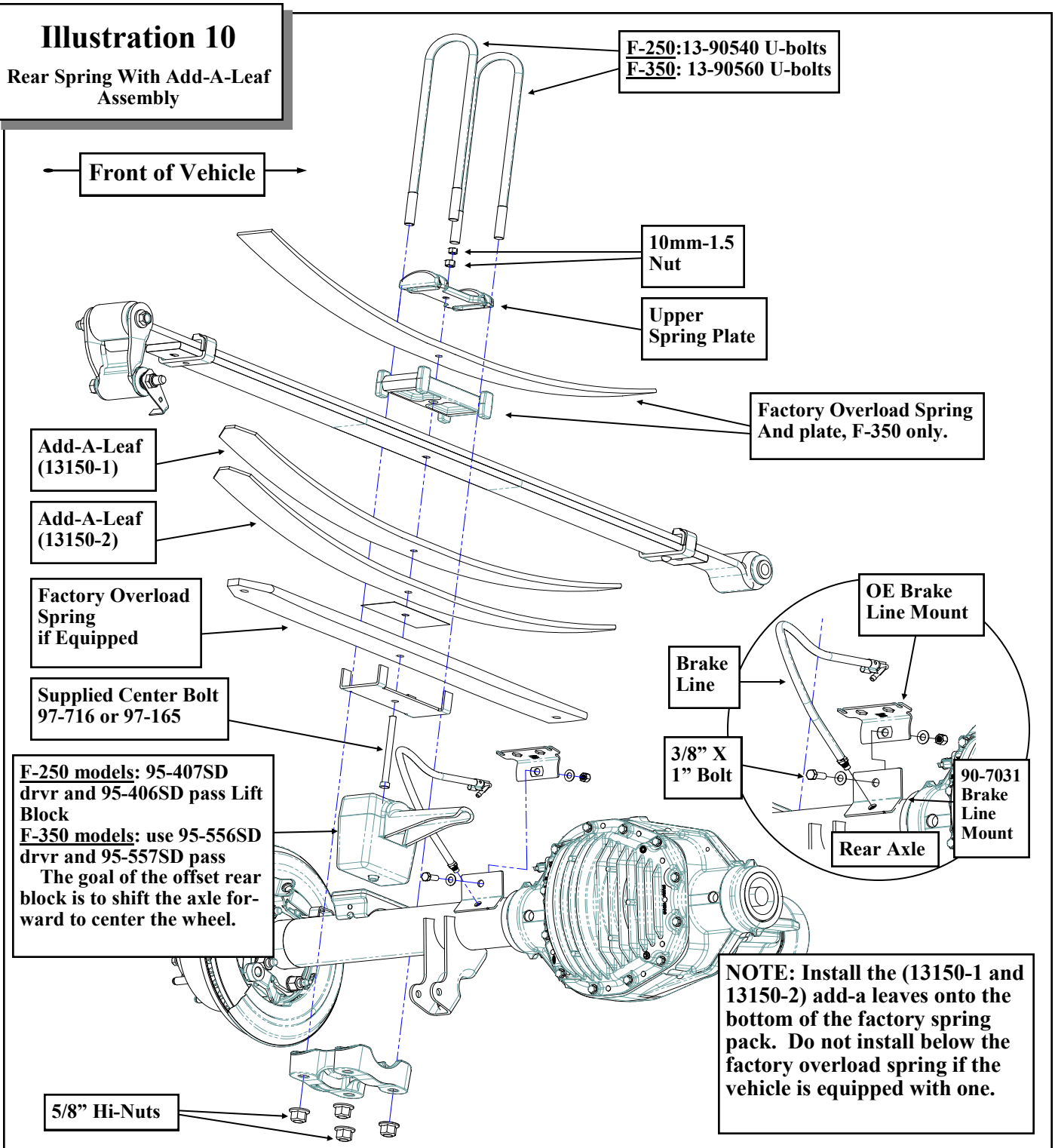
NOTE: *Make sure the block sits flush on the axle perch.*

12. Repeat the installation on the other side of the vehicle.
13. On driver side, carefully bend down the emergency brake line bracket that secures the line to the frame and bolt the emergency brake line bracket back to the spring pack center bolt using the supplied **10mm-1.5** nut..
14. Install your new Pro Comp shocks (**932008, MX6018, MX6069R, FX6306 or FX6509**). Torque the upper mounting hardware to 46 ft. lbs. and the lower mounting hardware to 66 ft. lbs. Use thread locker on these bolts.
15. Remove the (2) bolts that secure the center drive shaft bearing. Lower bearing and install **1/4"** of shim thickness for each inch of rear lift. Use new **7/16" X 2 1/4"** bolts and torque to 55 ft./lbs.

NOTE: *1/4" of shim for each inch of lift is only a starting point. Only by driving the*

Illustration 10

Rear Spring With Add-A-Leaf Assembly



Add-A-Leaf Rear Spacer Options:

1. F-250: Add-a-leaves (13150-1 and 13150-2) and lift block 95-407SD drvr and 95-406SD pass.
2. F-350: Add-a-leaves (13150-1 and 13150-2) and lift blocks 95-556SD drvr and 95-557SD pass.

See Inset box after step 11, page 13.

vehicle and adding or removing shims can the high speed vibration be totally eliminated. The off the line vibration is caused by axle wrap up and cannot be eliminated with these products.

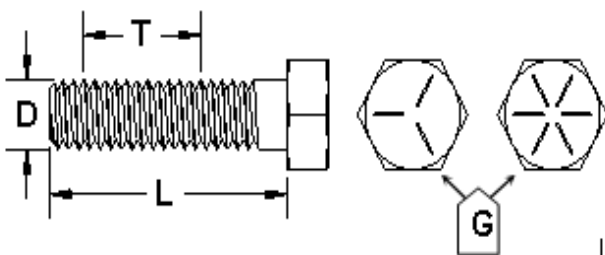
16. If vehicle came equipped with a rear sway bar, assemble the rear sway bar end links (**91-2446**) using the bushings (**45359**) and sleeves (**60859H**).
17. Secure the new rear sway bar end links (**91-2446**) to the frame and the sway bar using the provided **12mm-1.75 X 70mm**. Torque the bolts according to the torque chart on page 15.
18. Secure the new rear brake line bracket (**90-7031**) to the rear axle by reinstalling the vent tube.
19. Secure the **OE** brake line bracket to the new brake line bracket (**90-7031**) using the supplied **3/8" X 1"** bolt and hardware.
20. Reinstall the wheels and tires and lower the vehicle to the ground. Torque lug nuts to manufacturer specification.
21. Torque the spring mounts at this time. The front bolts are torqued to 250 ft. lbs. and the rear bolts are torqued to 185 ft. lbs. Torque the **5/8" U-bolts** to 120 ft. lbs.
22. Re-check the wheel lug torque on all four wheels at this time.
23. Re-check *all* hardware (both the front and the rear) for proper installation and torque!!
24. If you wish, you may trim the excess u-bolt thread length. If you do this you should leave approximately one inch of thread exposed after the **U-bolts** are torqued.
25. 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 either component. Reposition them if needed.

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.**

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

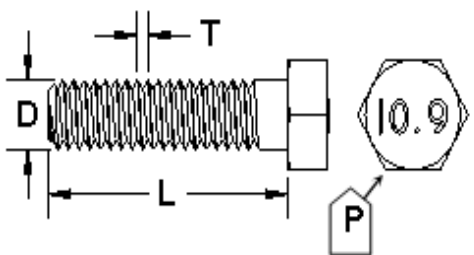
Bolt Torque and ID						
Decimal System			Metric System			
All Torques in Ft. Lbs. Maximums						
Bolt Size	Grade 5	Grade 8	Bolt Size	Class 9.8	Class 10.9	Class 12.9
5/16	15	20	M6	5	9	12
3/8	30	45	M8	18	23	27
7/16	45	60	M10	32	45	50
1/2	65	90	M12	55	75	90
9/16	95	130	M14	85	120	145
5/8	135	175	M16	130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



1/2-13x1.75 HHCS **Grade 5 Grade 8**
(No. of Marks + 2)

D T L X

G = Grade (Bolt Strength)
D = Nominal Diameter (Inches)
T = Thread Count (Threads per Inch)
L = Length (Inches)
X = Description (Hex Head Cap Screw)



M12-1.25x50 HHCS

D T L X

P = Property Class (Bolt Strength)
D = Nominal Diameter (Millimeters)
T = Thread Pitch (Thread Width, mm)
L = Length (Millimeters)
X = Description (Hex Head Cap Screw)

Revision Page:

5.9.11: Removed (1) hardware pack (90-6340) from BOM **box-1**. Added (1) hardware pack (90-6315), (1) hardware pack (90-6803), (90-3822) sway bar spacer, (90-3823) steering stabilizer bracket to **box-1**. Applied changes into the text (#46-#50) and **illustration 8**.

6.15.11: Added traction bar mounting kit (72101), plate traction bar kit (72301) and tube traction bar kit (72300) to the options box.

10.04.11: Updated kit fitment to include 2012. Changed trac bar PN from (91-7022) to (91-7691). Added front brake line drops (90-7722 **drv**r and 90-7723 **pass**) to kit. Added corresponding installation steps (35-39) & illustration 7. Added Fox box 3-BF, box 3-BFR to the BOM and PN's to the text.

4.18.13: Changed the track bar drop bracket from (94-7691 to 91-9290) and added cam plate hardware pack (90-6918) to BOM box-2. Revised Illustration #3 and removed illustration #10. Added step 62 front axle adjustment and centering instructions. Updated logo and warranty page, and contact information. Updated kit fitment to include 2013 models.

7.22.21: Added Instances T and M to all PN (K4175/77/79/81)



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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!

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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.

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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.

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PLACE
WARRANTY REGISTRATION
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