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**8.1.2024**



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## PRO COMP SUSPENSION

***IMPORTANT!: 18" OR LARGER WHEELS WITH 4 3/4" MAX-  
IMUM BACKSPACING MUST BE USED IN CONJUNCTION  
WITH THIS LIFT KIT!***

**TOY116M**  
**2012-2014 TOYOTA TACOMA 4WD/2WD Pre Runner**  
**W/ Vehicle Stability Control**

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.
<b>90-6439</b>	<b>HARDWARE PACK: Tie Rod Jam Nut</b>	<b>1</b>	-	-
.160FNFJZ	16mm-1.5 PLATED NUT	2	-	-
<b>91-3327</b>	<b>FRONT CROSSMEMBER</b>	<b>1</b>	<b>3,7,10</b>	<b>10,12,14</b>
<b>90-3333</b>	<b>FRONT CROSSMEMBER NUT PLATE</b>	<b>1</b>	<b>10</b>	<b>14</b>
<b>90-6440</b>	<b>HARDWARE PACK: Differential</b>	<b>1</b>	-	-
70-0503251800	1/2" x 3 3/4" GR. 8 HEX BOLT	1	6	12
70-0504001800	1/2" x 4" GR. 8 HEX BOLT	3	6,7	12
72-050100816	1/2" GR. 8 STOVER NUT	4	6,7	12
73-0500083	1/2" SAE GR. 8 FLAT WASHER	8	6,7	12
71-120901501000	12mm-1.5 X 90mm GR. 10.9 HEX BOLT	1	4	11
72-12150816	12mm-1.5 NYLOCK NUT	1	4	11
73-01208840	12mm FLAT WASHER	2	4	11
73-01400834	14mm HARDENED FLAT WASHER	2	4	11
71-140401501000	14mm-1.5 X 30mm HEX BOLT 10.9	2	4	11
<b>90-6441</b>	<b>HARDWARE PACK: Bump Stop</b>	<b>1</b>	-	-
71-100301251000	10mm-1.25 X 30mm GR. 10.9 HEX BOLT	2	15	17
72-10125816	10mm-1.25 STOVER NUT	2	15	17
73-01008840	10mm FLAT WASHER	4	15	17
<b>90-6442</b>	<b>HARDWARE PACK: Tacoma Diff Bushings</b>	<b>1</b>	-	-
90-2533	DIFFERENTIAL SLEEVE SHORT	1	4	11
90-2109	DIFFERENTIAL SLEEVE LONG	3	4	11
90-2207	DIFFERENTIAL SPACER SHORT	1	4	11
90-2536	DIFFERENTIAL SPACER LONG	1	4	11
15-11148	COMPRESSION STRUT BUSHING	8	4	11
<b>90-6443</b>	<b>HARDWARE PACK: Front Brake Line</b>	<b>1</b>	-	-
90-55089-4	FRONT BRAKE LINE EXTENSION- (Drvr)	1	18	19
90-55089-3	FRONT BRAKE LINE EXTENSION- (Pass)	1	18	19
90-1539	BRAKE LINE EXTENSION: Diff Vent/ABS/ E-Brake Line	4	11	14
90-3340	EMERGENCY BRAKE LINE DROP	2	24	24
90-3341	REAR AXLE BRAKE LINE RELOCATION BRACKET	1	22	22
<b>91-2537</b>	<b>COMPRESSION STRUTS</b>	<b>2</b>	<b>20</b>	<b>20</b>
<b>90-6263</b>	<b>HARDWARE PACK: Bushings And Sleeves</b>	<b>1</b>	-	-
15-11148	COMPRESSION STRUT BUSHING	8	20	20
90-2109	SLEEVE; COMPRESSION STRUT - 2.75"	4	20	20
<b>90-6234</b>	<b>HARDWARE PACK: Compression Struts</b>	<b>1</b>	-	-
70-0501251800	1/2"-13 X 1 1/4" GR 8 HEX BOLT	2	20	20
70-0504001800	1/2"-13 X 4" GR 8 HEX BOLT	4	20	20
72-050100816	1/2"-13 GR 8 STOVER NUT	4	20	20
73-05000034	1/2" SAE HARDENED FLAT WASHER	10	20	20
<b>91-1435</b>	<b>COMPRESSION STRUT MOUNTS</b>	<b>2</b>	<b>20</b>	<b>20</b>
<b>13-90126</b>	<b>U-BOLTS</b>	<b>4</b>	<b>23</b>	<b>23</b>
<b>20-65302</b>	<b>HI-NUTS</b>	<b>1</b>	<b>23</b>	<b>23</b>
<b>95-251</b>	<b>REAR LIFT BLOCKS</b>	<b>2</b>	<b>23</b>	<b>23</b>
<b>90-6457</b>	<b>TACOMA REAR CARRIER BEARING SHIM KIT</b>	<b>1</b>	-	-

Part #	Description	Qty.	Illus.	Page
90-2524	3/4" CARRIER BEARING SPACER	2	-	-
90-2309	1" CARRIER BEARING SPACER	2	-	-
90-6458	HARDWARE PACK	1	-	-
.100C1000HCS1Z	10mm-1.25 X 50mm HEX BOLT 10.9	2	-	-
.100NWHDY	10mm FLAT WASHER	2	-	-
91-5361	COMPRESSION STRUT MOUNT: 2WD	2	-	-
90-6671	HARDWARE PACK: 2WD Compression Strut Mount	1	-	-
90-5321	COMPRESSION STRUT MOUNT NUT PLATE	2	-	-
91-5813	SWAY BAR DROP BRACKET- Driver	1	-	-
91-5816	SWAY BAR DROP BRACKET- Passenger	1	16	18

**Box 2 of 5-PN 57396B-2**

90-4173	STEERING KNUCKLE- Driver	1	-	-
90-4174	STEERING KNUCKLE- Passenger	1	-	-
90-6452	HARDWARE PACK: Knuckle	1	-	-
70-0622001800	5/8"X 2" Gr. 8 HEX BOLT	4	-	-
73-06200838	5/8" A.N. FLAT WASHER	4	-	-
90-6453	HARDWARE PACK: Bump Stop	1	-	-
70-0622001800	ADEL CLAMP (w/ 10mm hole)	2	-	-
90-6454	HARDWARE PACK: Steering Stops	1	-	-
96-3399	STEERING STOP EXTENSION PLATE- Driver	1	14	16
96-3400	STEERING STOP EXTENSION PLATE- Pass	1	14	16
90-6623	HARDWARE PACK: Cotter Pin	1	-	-
15N200PCOZ	5/32" x 2" COTTER PIN	4	-	-
12N150PCOZ	1/8" X 1 1/2" COTTER PIN	4	-	-

**Box 3 of 5-PN 57396B-3**

91-3335	REAR CROSSMEMBER	1	1,2,8,9	9,13
90-6223	HARDWARE PACK: Sway Bar	1	-	-
70-0371251800	3/8-16 X 1 1/4" GRADE 8 HEXBOLT	4	16	18
72-037100816	3/8"-16 USS STOVER NUT	4	16	18
73-03700034	3/8" SAE GRADE 8 WASHER	8	16	18
91-3355	FRONT BUMP STOP- Driver	1	15	17
91-3359	FRONT BUMP STOP- Passenger	1	15	17
90-3353	COMPRESSION STRUT NUT PLATE: 4WD	2	20	20
91-3346	DIFFERENTIAL MOUNT- Driver Rear	1	4	11
91-3348	DIFFERENTIAL MOUNT- Driver Front	1	4	11

Part #	Description	Qty.	Illus.	Page
<b>91-3350</b>	<b>DIFFERENTIAL MOUNT– Passenger</b>	<b>1</b>	<b>4</b>	<b>11</b>
<b>90-6314</b>	<b>HARDWARE PACK: Diff Vent/Bump Stop</b>	<b>1</b>	<b>-</b>	<b>-</b>
70-0311001800	5/16" X 1" HEX BOLT GR. 8	1	11	14
72-031100816	5/16" STOVER NUT	1	11	14
73-03100838	5/16" USS FLAT WASHER	2	11	14
70-0371501800	3/8" X 1 1/2" HEX BOLT GR. 8	2	15	17
72-037100816	3/8" STOVER NUT GR. 8	2	15	17
73-03700034	3/8" HARDENED FLAT WASHER	4	15	17
<b>90-6299</b>	<b>HARDWARE PACK: E-Brake Line/Brake Line/ABS Line</b>	<b>4</b>	<b>-</b>	<b>-</b>
70-0311001500	5/16" X 1" GR.5 HEX BOLT	2	18,21,22,24,25	19,22,24
72-03100100512	5/16" NYLOCK NUT	2	18,21,22,24,25	19,22,24
73-03100030	5/16" SAE FLAT WASHER	4	18,21,22,24,25	19,22,24
<b>90-6444</b>	<b>HARDWARE PACK: Crossmembers</b>	<b>1</b>	<b>-</b>	<b>-</b>
70-0755001800	3/4" X 5" GR. 8 HEX BOLT	2	3	10
72-075100816	3/4" GR. 8 STOVER NUT	2	3	10
73-0750083	3/4" SAE GR. 8 FLAT WASHER	4	3	10
70-0501501800	1/2" X 1 1/2" GR.8 HEX BOLT	1	1	9
70-0505501800	1/2" X 5 1/2" GR. 8 HEX BOLT	2	1	9
72-050100816	1/2" GR. 8 STOVER NUT	2	1	9
73-0500083	1/2" SAE GR. 8 FLAT WASHER	5	1	9
<b>90-6445</b>	<b>HARDWARE PACK: Nut Plate</b>	<b>1</b>	<b>-</b>	<b>-</b>
70-0371001800	3/8" X 1" GR. 8 HEX BOLT	3	9	13
73-0370083	3/8" SAE GR. 8 FLAT WASHER*	6	9	13
72-037100816	3/8" SAE GR. 8 STOVER NUT*	3	-	-
<b>90-3342</b>	<b>REAR CROSSMEMBER NUT PLATE</b>	<b>1</b>	<b>9</b>	<b>13</b>
<b>90-6447</b>	<b>HARDWARE PACK: Block Off Plates</b>	<b>1</b>	<b>-</b>	<b>-</b>
<b>90-3344</b>	<b>CAM BLOCK OFF PLATES- Small Hole</b>	<b>4</b>	<b>1</b>	<b>9</b>
<b>90-3345</b>	<b>CAM BLOCK OFF PLATES- Large Hole</b>	<b>4</b>	<b>3</b>	<b>10</b>
<b>Box 4 of 5-PN 57396B-4</b>				
<b>90-6317</b>	<b>HARDWARE PACK: Spacer Mount</b>	<b>1</b>	<b>-</b>	<b>-</b>
72-043200810	7/16-20 GR. 8 PLATED HEX NUT	6	12a,12b,13	15
73-04300830	7/16 SAE FLATWASHER ZINC	6	12a,12b,13	15
73-04300836	7/16 SPLIT LOCK WASHER	6	12a,12b,13	15
<b>6300.01</b>	<b>URETHANE SPRING ISOLATOR</b>	<b>2</b>	<b>12a</b>	<b>15</b>
<b>90-3398</b>	<b>3/8" COIL SPRING SPACER</b>	<b>2</b>	<b>12a</b>	<b>15</b>
<b>91-2539</b>	<b>STRUT SPACER</b>	<b>2</b>	<b>12a</b>	<b>15</b>

Part #	Description	Qty.	Illus.	Page
<b>BOX 13120</b>				
<b>13120-1</b>	<b>ADD-A-LEAF</b>	<b>2</b>	<b>23</b>	<b>23</b>
<b>90-3856</b>	<b>HARDWARE PACK: Add-A-Leaf</b>	<b>1</b>	<b>-</b>	<b>-</b>
98-00250-1	2 1/2" Spring Plate- Clamps	4	-	-
98-00250-1	2 1/2" Spring Plate- Straps	4	-	-
97-380	3/8" X 5" Center Bolt	2	23	23
8337-1	3/8" Fine Gr. 8 Nut	2	23	23

**Box PR2050 of PN ( TOY116M )**

<b>PR2050</b>	<b>REAR SHOCK</b>	<b>2</b>	<b>-</b>	<b>-</b>
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\*Early production kits will not have the (3) extra flat washers and (3) extra stover nuts for 2WD rear crossmember installation.

\*\* Add-a-leaf will be box 5 in the standard ES kit and box 6 in the upgraded MX kit

## Optional Equipment Available from your Pro Comp Distributor!

**Traction Bars: 72500B**

**Mounting kit: 72083B**

**Skid Plate: 57196**

**Light Bar: 25000**

**CV Style Driveshaft: 57098**

**2005-2011 Add-A-Leaf Kit: 13129**

**2012 Add-A-Leaf Kit: 13120**

**Transmission Crossmember: 57091**

**2005-2011 6-Lug 2WD PreRunner/4WD Leveling Kit: 65205**

**2005-2011 Pre Runner 2WD/4WD 6-Lug 2 3/4"- 3" Front 1" Rear Leveling Kit: 65205K**

**1995-2011 Toyota Tacoma 2wd/4wd Rear Block Kit: 65151**

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

**\*Early production kits will not have the (3) extra flat washers and (3) extra stover nuts for 2WD rear crossmember installation.**

**\*\* Add-a-leaf will be box 5 in the standard ES kit and box 6 in the upgraded MX kit**

## Introduction:

- ◆ 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 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.
- ◆ **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.**

## **Important!**

Tire and wheel choice is crucial in assuring proper fit, performance, and the safety of your Pro Comp equipped vehicle. For this application, a wheel not to exceed 9" in width with a maximum backspacing of 4 3/4" must be used. Additionally, a quality tire of radial design, not exceeding 35" tall X 12.5" wide is recommended. Please note that the use of a 35" X 12.5" 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!***

### **Please Note:**

- \* Front suspension and head light realignment is necessary!
- \* Speedometer and ABS recalibration will be necessary if larger tires (10% more than stock diameter) are installed.
- \* Always use NEW cotter pins on re-assembly! (These items are NOT supplied)
- \* **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!**

### **Special Tools:**

Please refer to your service manual for more information.  
A special removal tool is required for safe removal of the tie rods.  
These tools may be purchased at your local Toyota dealer.  
You may be able to rent any of these tools at your local parts store.

***IMPORTANT! This vehicle is not for use in 4WD over 50mph. If this vehicle will be used at speeds in 4WD over 50 mph a Pro Comp CV style front driveshaft PN#57098 will need to be purchased separately and installed***

***NOTE: For vehicles experiencing driveline vibration that cannot be corrected by the supplied spacers, transmission crossmember kit (57091 sold separately) can be purchased and installed to correct the problem.***

## 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. Ensure that your work space is of adequate size and the work surface is level. Place the vehicle in park. Disconnect the negative battery cable from the battery. 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 place the vehicle back in gear, set the emergency brake, and place blocks both in front of and behind the rear wheels. Remove the front wheels.
3. Remove the skid plate and the skid plate support brackets.
4. Un clip the ABS line from the knuckle, unbolt the anti-lock wiring and sensor from the hub and the brake line from the rear of the knuckle.
5. Using the appropriate tool, remove the outer tie rod end nut and separate from the knuckle.
6. Unbolt the sway bar end links and remove them from the vehicle. Unbolt the sway bar frame mount brackets and remove the sway bar. Save the parts and hardware for reuse.
7. Work on one side of the vehicle at a time.
8. Remove the brake caliper from the rotor and secure them clear from the work area. **DO NOT** let the caliper hang by the brake line or damage may result.
9. Remove the front rotors from the front hub.
10. Remove the dust cap and the axle retaining nut.
11. Unbolt the (4) bolts holding the hub flange to the knuckle and remove the hub. Save for

reinstallation.

***NOTE: You will not be able to remove the bolts from the hub assembly after the hub is removed from the knuckle.***

12. Support the knuckle and remove the upper ball joint nut from the knuckle and separate using the appropriate tool.
13. Remove the (2) bolts from the lower ball joint bracket. Remove the knuckle from the vehicle.
14. Unbolt and remove the factory coil over assembly from the vehicle. Save the hardware for reuse.
15. Remove the lower A-arm from the vehicle.

***NOTE: Be sure to support the CV axles before removing the lower A-arm. DO NOT allow the axles to hyperextend or damage to the bearings might result.***

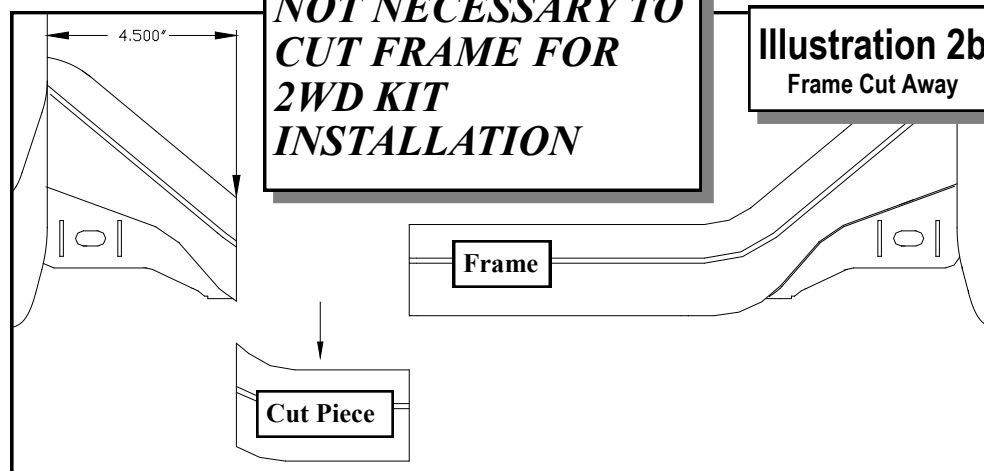
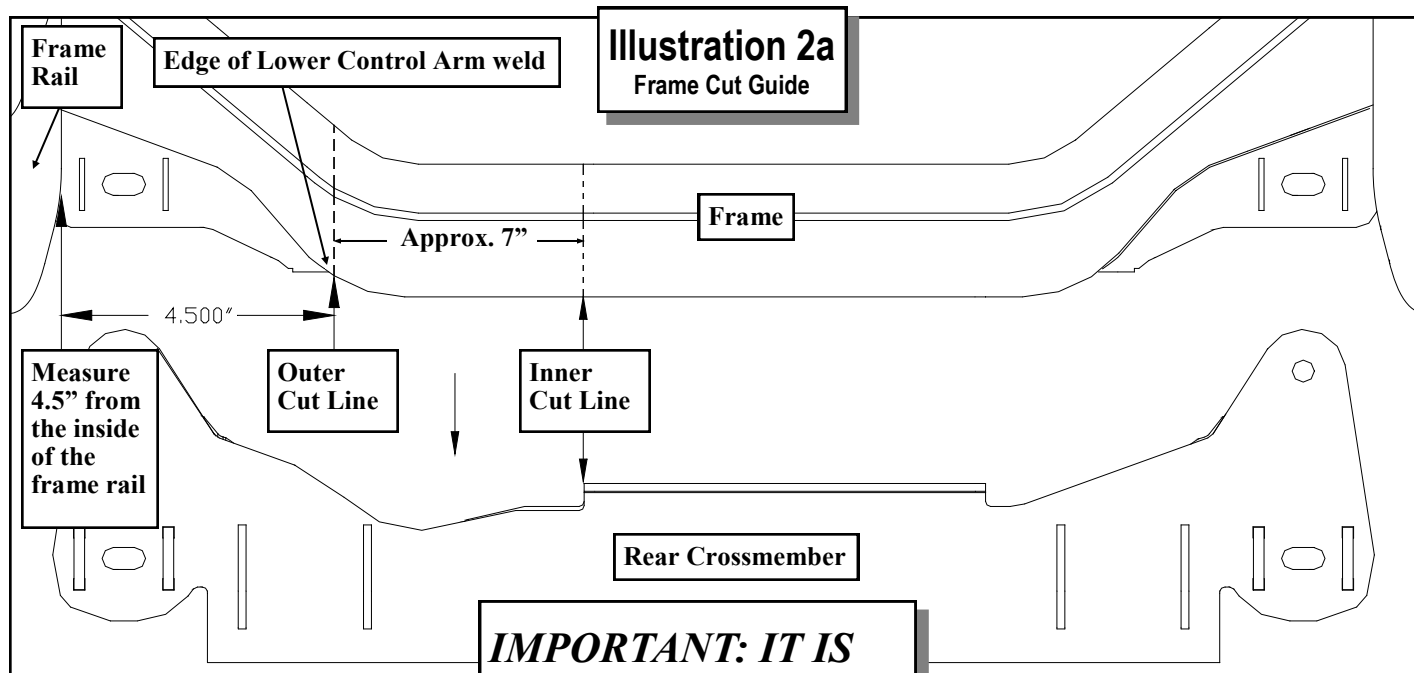
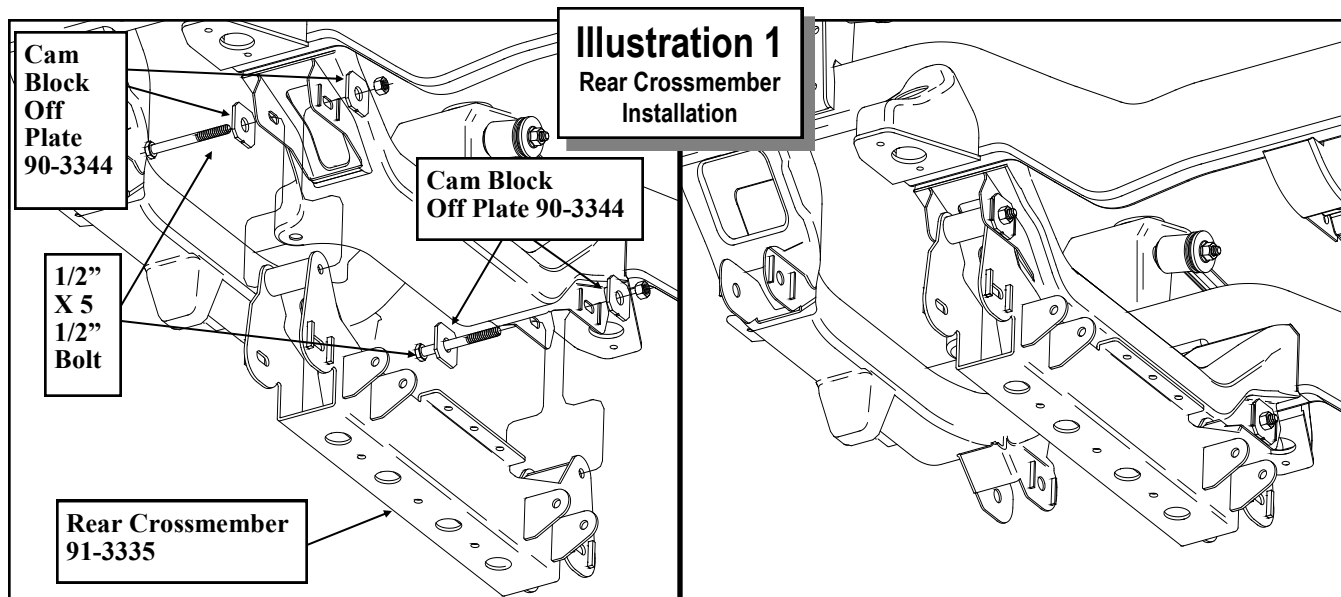
16. Repeat steps 8 through 15 on the remaining side of the vehicle.
17. Unbolt the front driveshaft from the differential. Secure the driveshaft up and out of the work area.
18. Unclip all electrical wiring, vacuum lines and vent lines from the differential.
19. Support the differential with a jack and unbolt the rear mount differential mount.
20. Remove the (2) front differential mount bolts from the front crossmember. Remove the differential from the vehicle.

***IMPORTANT!: Cutting of the frame is not necessary for 2WD installation of this kit. Skip steps 21-26.***

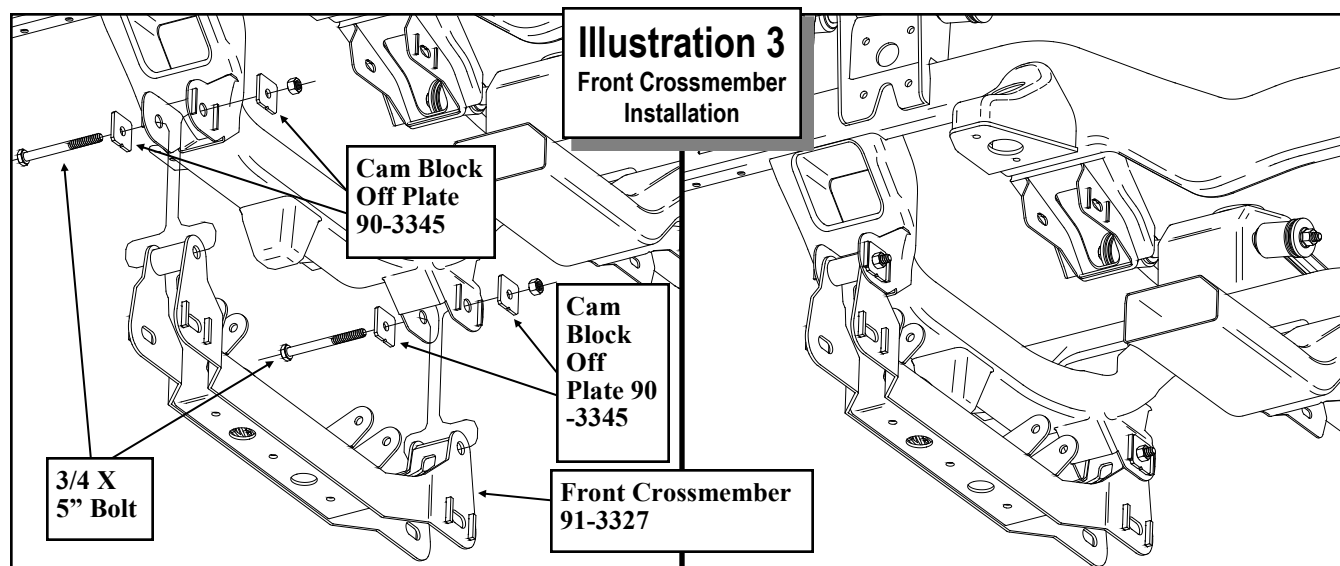
21. Raise the rear crossmember (91-3335) into the rear frame mounting pockets and hang in place using the supplied 1/2" X 5 1/2" bolts and small hole cam block off plates (90-3344). See ILLUSTRATION 1.

***NOTE: Due to variations in frame tolerances from the factory, the holes in the cam block off plates are offset to provide adjustability. If the bolt holes do not line up with the cam block off plate notches facing down they can be rotated to aid installation of the cam bolts. In***





**IMPORTANT: IT IS  
NOT NECESSARY TO  
CUT FRAME FOR  
2WD KIT  
INSTALLATION**



*order for the crossmember to stay centered in the vehicle the notches in the cam block off plates must be facing the same way on both driver and passenger sides. Ex. Both notches facing up, down, in or out.*

22. Use the rear crossmember (91-3335) as a template for marking the frame for cutting.
23. Use the driver side edge of the rear crossmember lip to mark the frame for the inside edge of the cut. See ILLUSTRATION 2a.
24. Measure in 4 1/2" from the inside of the driver side frame rail. Make sure the measurement is square and mark a line around the frame for the outer edge of the cut. See ILLUSTRATION 2a.

**NOTE:** *Be sure that the outer cut line is at least an 1/8" to 1/4" from the bottom of the rear lower control arm pocket welds.*

25. Remove the rear crossmember to allow access for cutting the frame.
26. Using a suitable cutting tool, (abrasive cutoff wheel, Sawz-all, etc.) cut the frame along the previously marked lines as shown in ILLUSTRATION 2a. After cutting the section out of the frame, clean the area thoroughly and paint the exposed metal with a good quality paint.
27. Install the front crossmember (91-3327) into the front mounting pockets using the supplied 3/4" X 5" bolts and cam block off plates (90-3345). Install the cam block off plates with the notches facing down. See ILLUSTRATION 3.

TION 3.

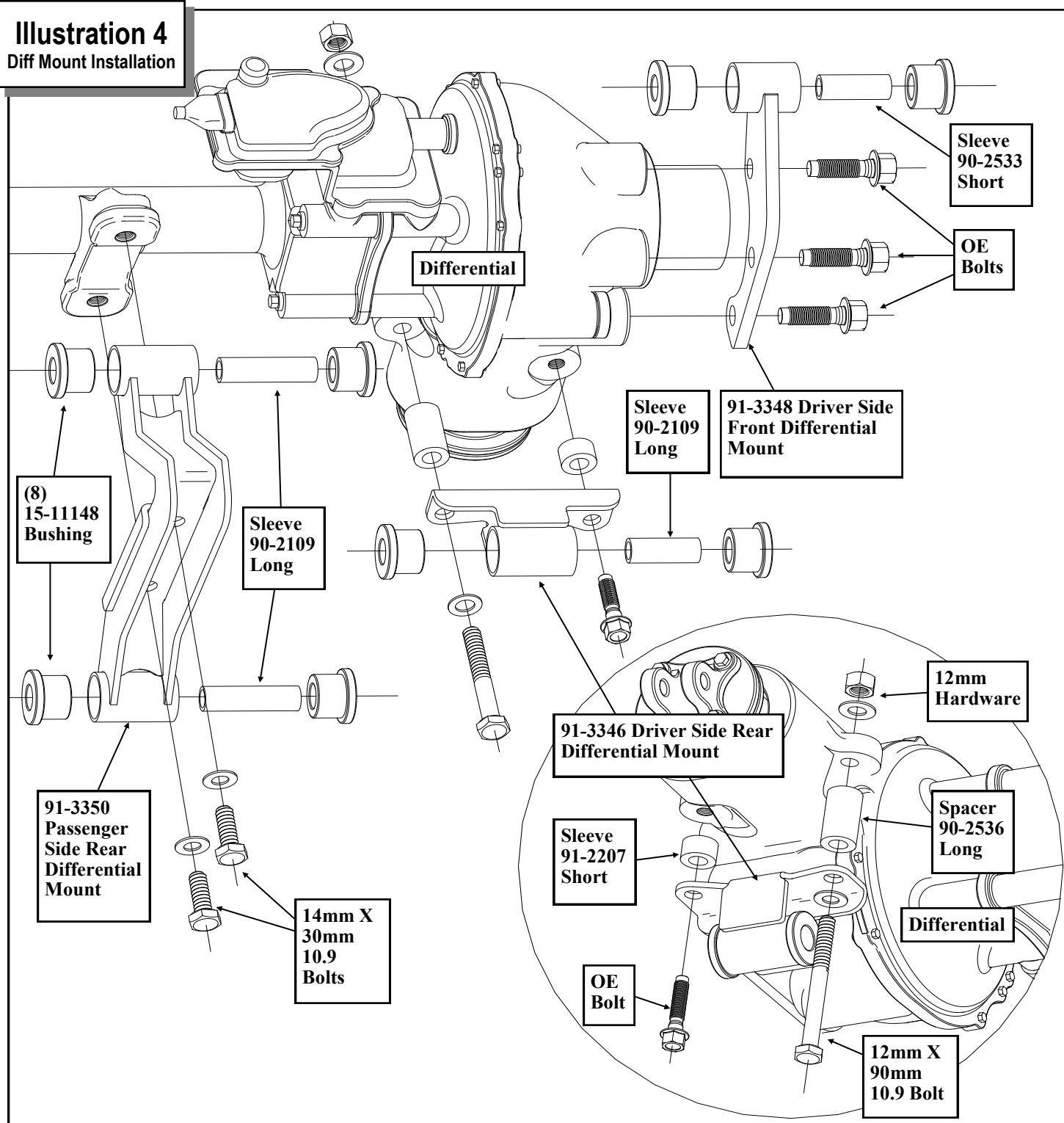
**NOTE:** *Due to variations in frame tolerances from the factory, the holes in the cam block off plates are offset to provide adjustability. If the bolt holes do not line up with the cam block off plate notches facing down they can be rotated to aid installation of the cam bolts. In order for the crossmember to stay centered in the vehicle the notches in the cam block off plates must be facing the same way on both driver and passenger sides. Ex. Both notches facing up, down, in or out.*

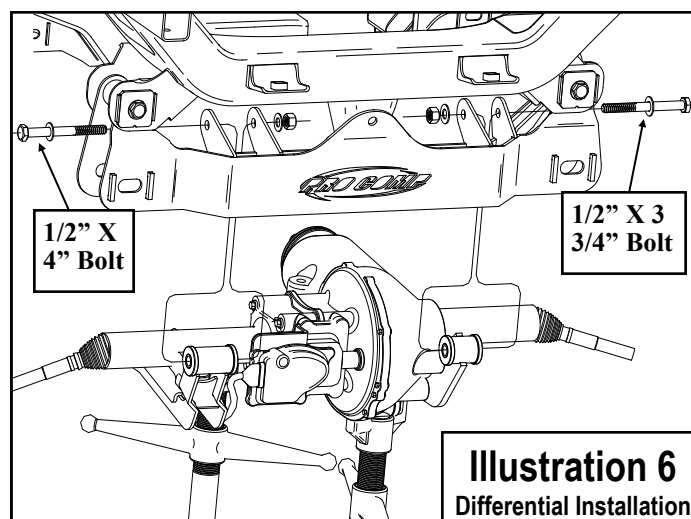
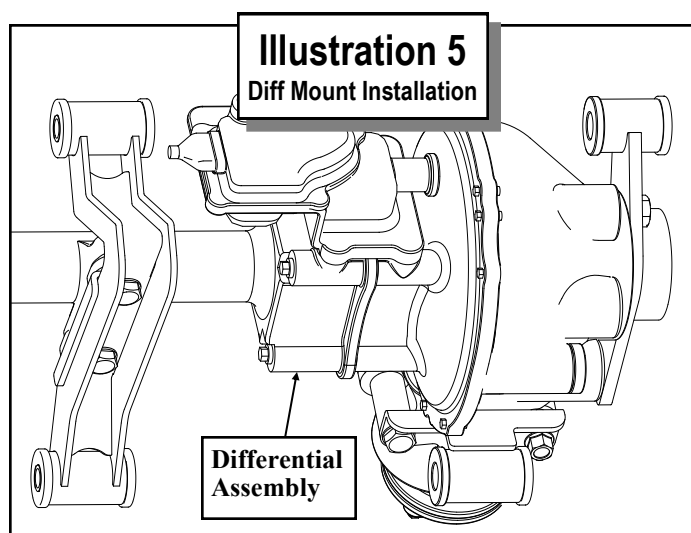
28. Remove the (2) front and (1) rear factory differential brackets from the differential.
29. Install the supplied bushings and sleeves from hardware pack (90-6442) into differential mounts (passenger side differential mount 91-3350, driver side front differential mount 91-3346, and the rear differential mount 91-3348). See ILLUSTRATION 4.
30. Install the (3) supplied differential brackets (pass side mount 91-3350, driver side front mount 91-3346, and the rear mount 91-3348) to the differential. Leave bolts slightly loose. See ILLUSTRATION 4.
31. Support the CV axles and carefully raise the differential assembly into place.

**NOTE:** *DO NOT allow the axles to hyperextend or damage to the bearings might result.*

32. Raise differential and secure the front driver

**Illustration 4**  
**Diff Mount Installation**





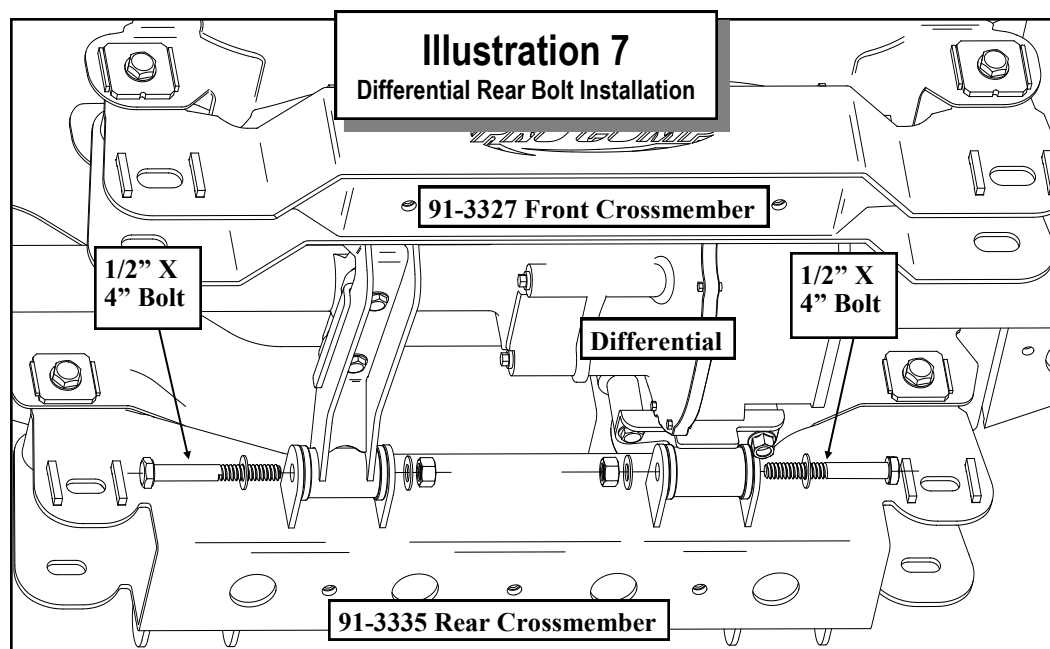
differential mount (91-3346) and passenger side differential mount (91-3350) to the front crossmember using the supplied 1/2" X 3 3/4"-drv side and 1/2" X 4"-pass side bolts and hardware. See ILLUSTRATION 6.

33. Install the rear crossmember (91-3335) into the rear frame mounting pockets using the supplied 1/2" X 5" bolts and cam block off plates (90-3344). Install the cam block off plates with the notch facing down. See ILLUSTRATION 1.
34. Secure the driver side rear differential mount (91-3348) and the rear of the passenger side differential mount (91-3350) to the rear crossmember using the supplied 1/2" X 4" bolts

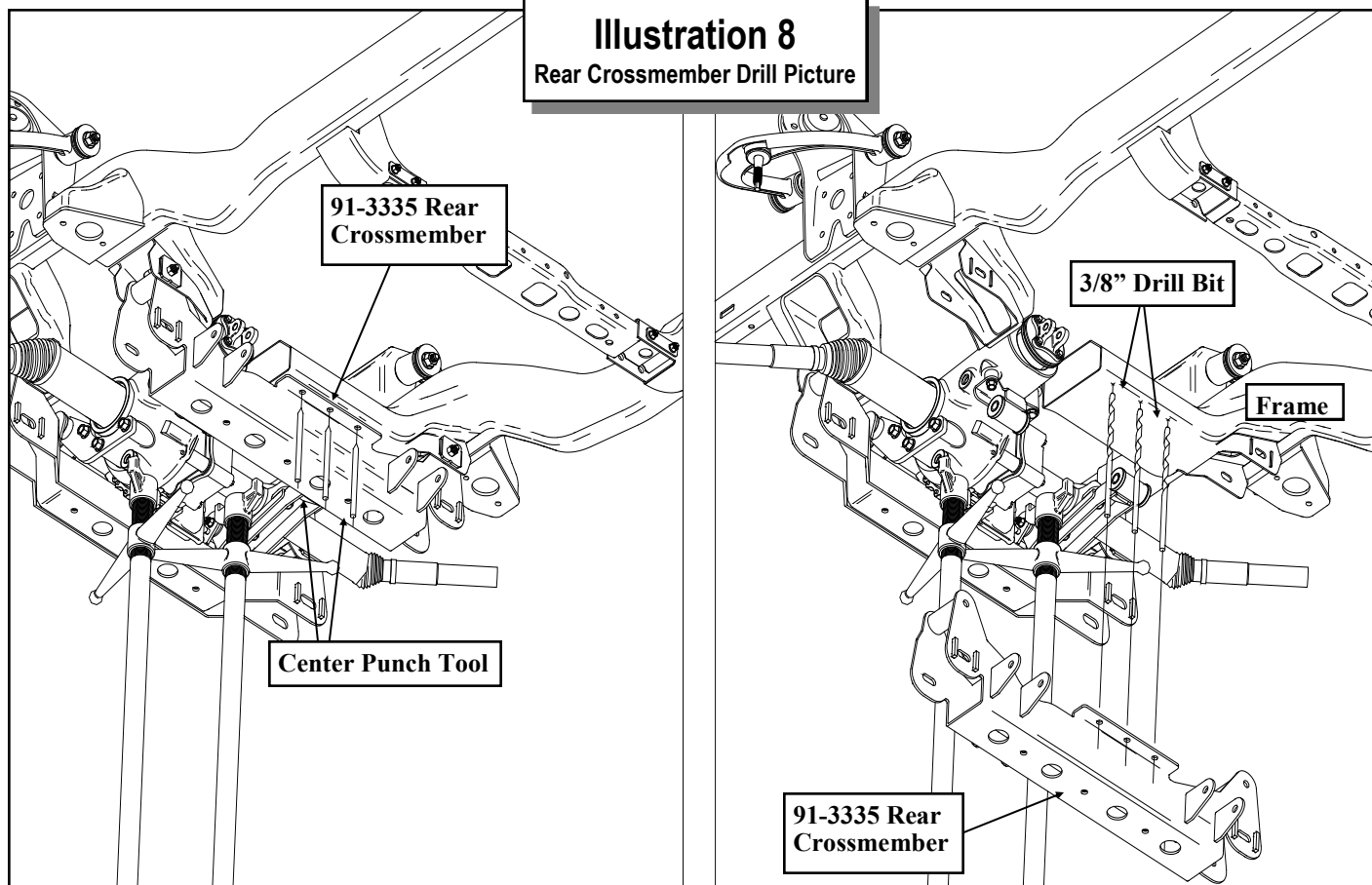
and hardware. See ILLUSTRATION 7.

35. Mark the (3) holes in the rear crossmember (91-3335) lip for drilling. See ILLUSTRATION 8.
36. Center punch and drill out the previously marked holes in the frame using a 3/8" drill bit. See ILLUSTRATION 8.
37. Insert the rear crossmember nut plate (90-3342) inside the previously drilled frame section See ILLUSTRATION 9.

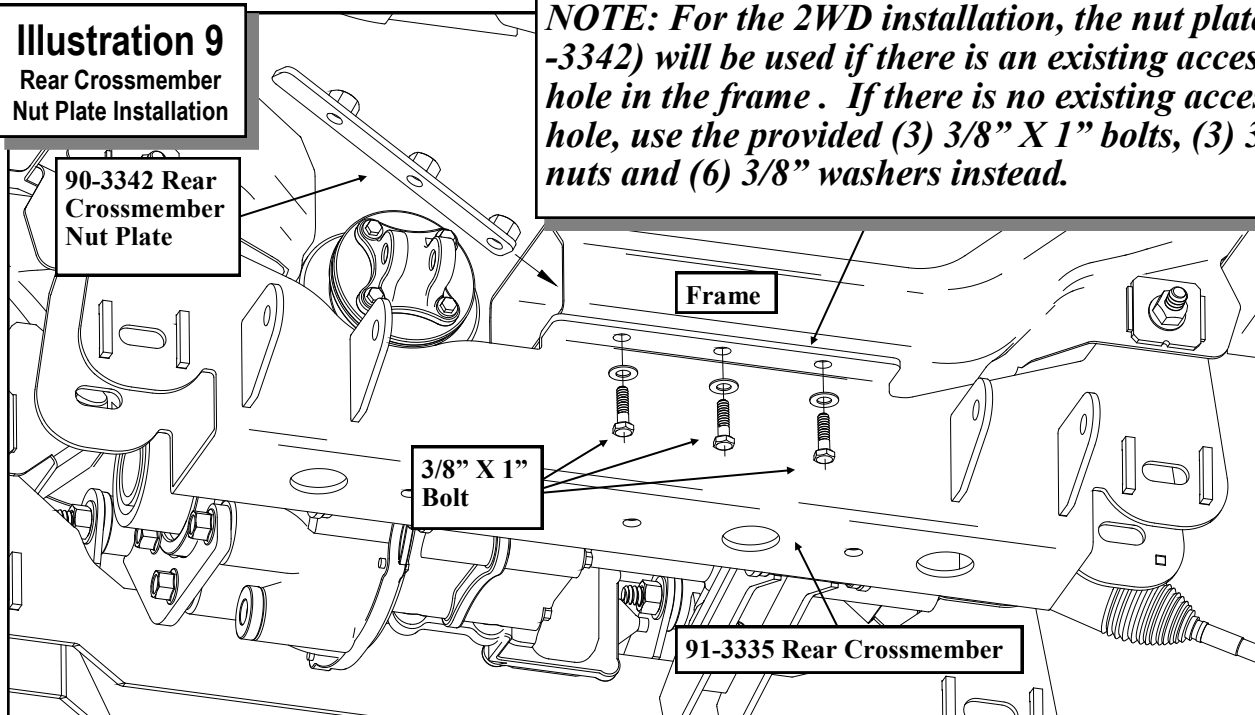
**NOTE:** For the 2WD installation, the nut plate (90-3342) will be used if there is an existing access hole in the frame. If there is no existing access hole, use the provided (3) 3/8" X 1" bolts, (3) 3/8" nuts and (6) 3/8" washers from



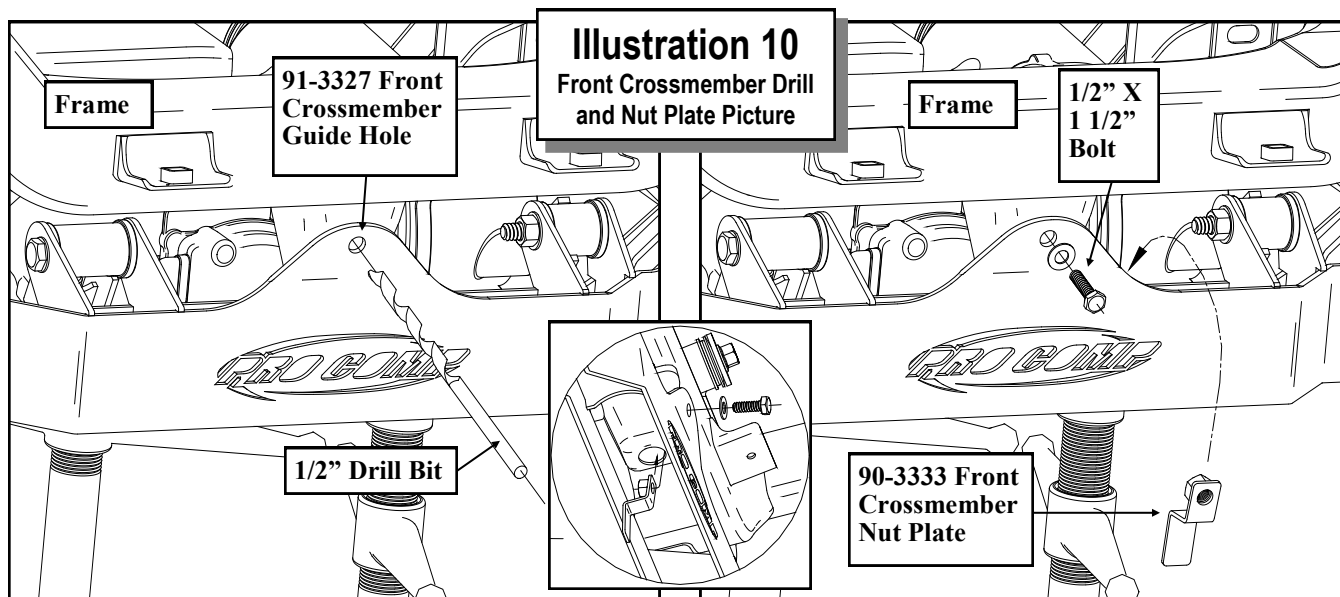
**Illustration 8**  
Rear Crossmember Drill Picture



**Illustration 9**  
Rear Crossmember  
Nut Plate Installation



**NOTE:** For the 2WD installation, the nut plate (90-3342) will be used if there is an existing access hole in the frame. If there is no existing access hole, use the provided (3) 3/8" X 1" bolts, (3) 3/8" nuts and (6) 3/8" washers instead.



pack (90-6445) instead. Early production kits will not have the extra 3/8" hardware.

38. Secure the rear crossmember lip to the nut plate (90-3342) using the supplied 3/8" X 1". Torque bolts according to the torque chart on page 25. See ILLUSTRATION 9.
39. Install the lower A-arms into the front and rear crossmember mounting pockets. Secure using the OE cam bolts.
40. Torque all crossmember and differential bolts according to the torque chart on page 25. **DO NOT** torque the lower cam bolts until the vehicle is back on the ground.
41. Mark and center punch the frame for the remaining center hole in the front crossmember. See ILLUSTRATION 10.
42. Drill the marked hole in the front crossmember using a 1/2" drill bit. Secure using the supplied 1/2" X 1 1/2" bolt and hardware. See ILLUSTRATION 10.
43. Under the hood, the previously disconnected differential breather line and vacuum line will need to be unbolted from the driver side fender well. Bolt the differential vent drop bracket (90-1539) to the fender well using the OE bolt. Attach the vacuum and breather lines to the installed drop bracket using the supplied 5/16" X 1" bolt and hardware. See ILLUSTRATION 11.
44. Reattach differential electrical, vacuum and vent connections. Reattach the front

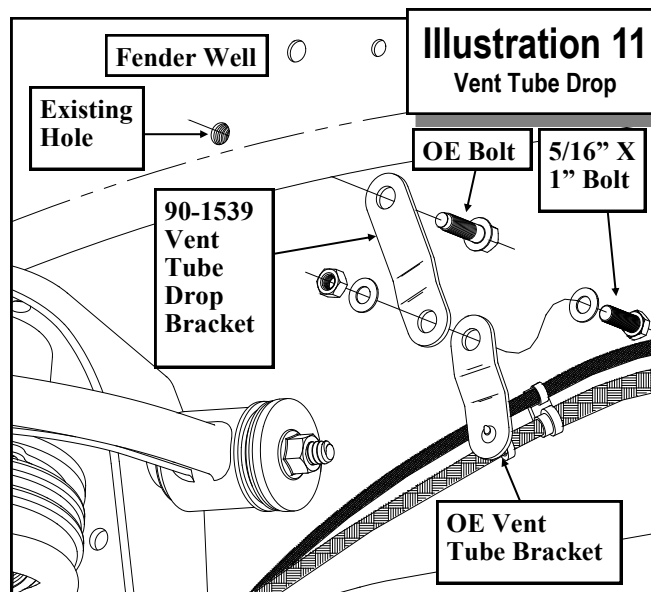
driveshaft and torque the OE nuts to 65 ft./lbs.

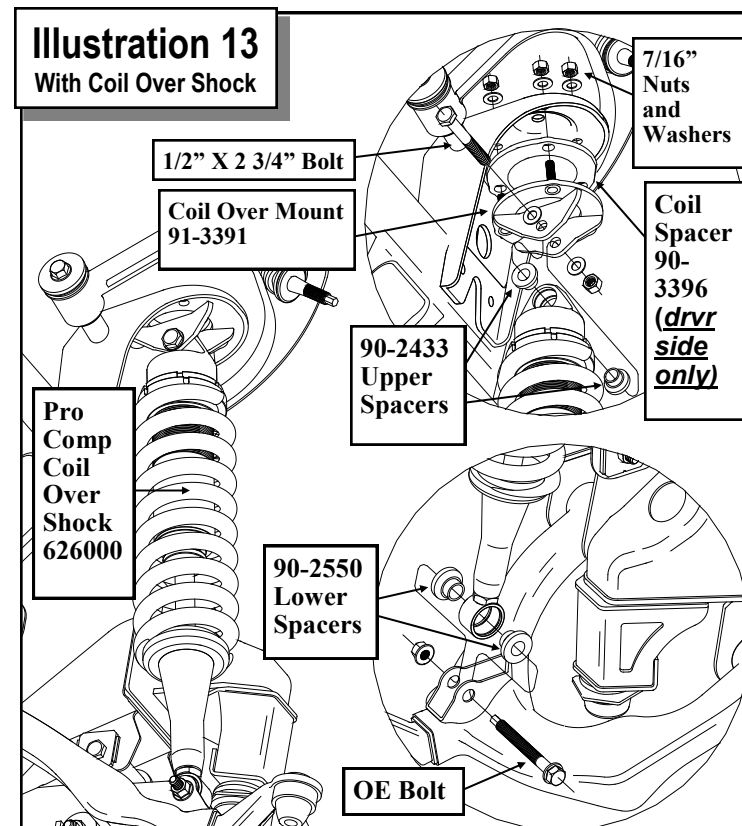
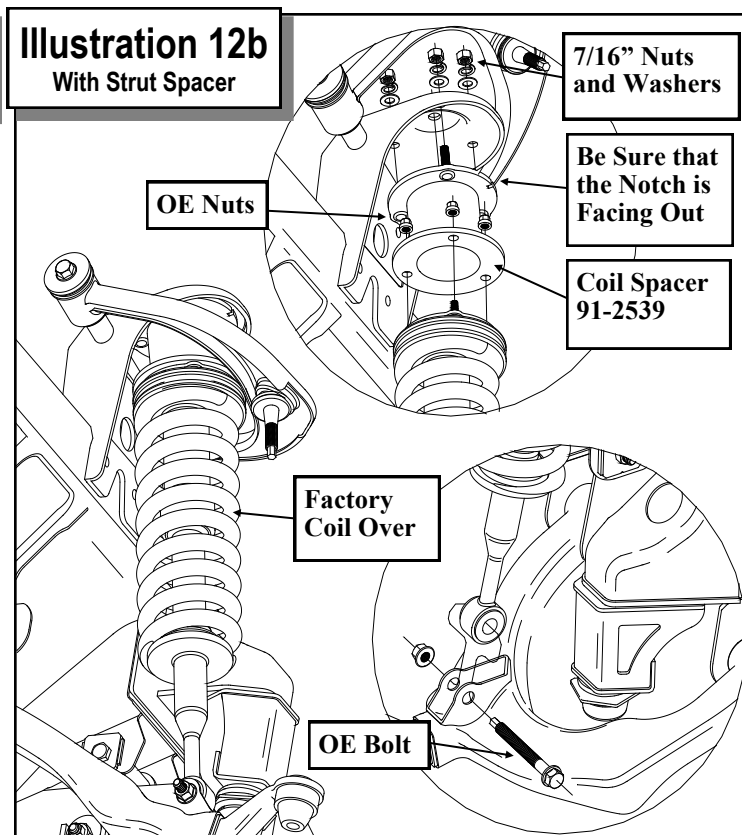
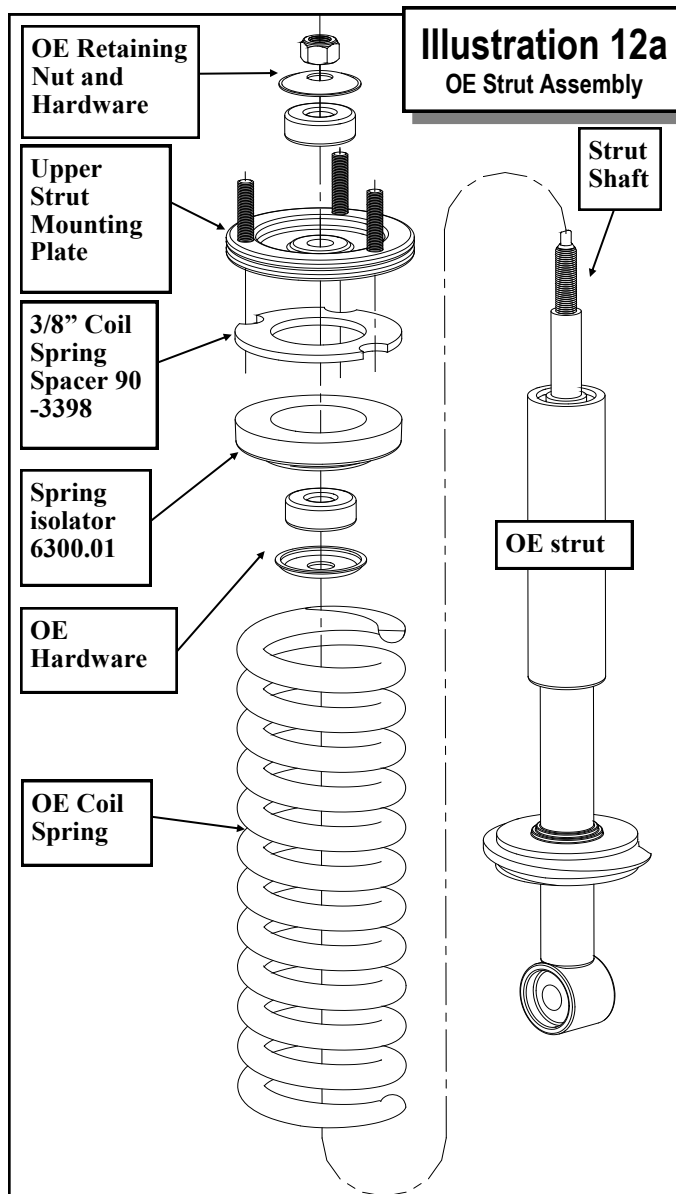
45. **WITH THE STRUT SPACERS.** Scribe an index mark on the top of the OE coil spring to the upper strut mounting plate.

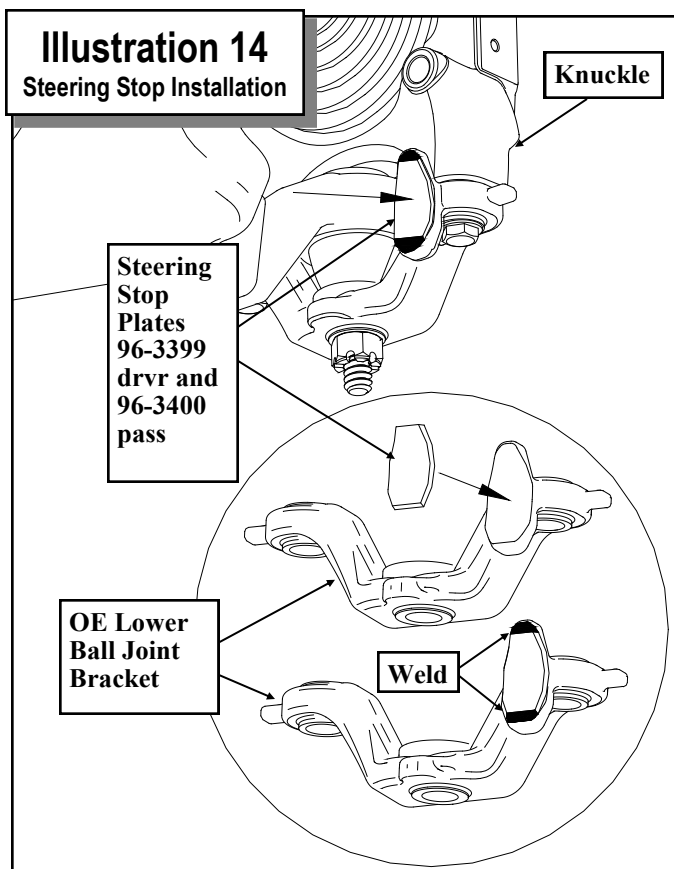
**CAUTION:** The coil is under extreme pressure and severe bodily injury may occur if the coil spring is disassembled without using a coil spring compressor.

46. Compress the coil spring on the strut assembly with a suitable coil spring compressor so that the coil spring has about 3/8" play in the strut and remove the upper strut isolator retaining nut.

**NOTE:** Do not use an impact gun to re-







*move the retaining nut. It will damage the strut shaft.*

47. Remove the OE coil spring isolator from the upper strut mounting plate and discard.

**NOTE:** *Inspect the front shock assembly for any damage or fluid leakage. Replace if necessary.*

48. Install the supplied 3/8" coil spring spacer (90-3398) and the new spring isolator (6300.01) to the upper strut mounting plate. See ILLUSTRATION 12a.

**NOTE:** *If your kit includes a replacement front shock install at this time*

49. Reinstall the compressed coil spring onto the strut assembly and re-attach the upper strut mount plate using the stock hardware. Torque the upper strut mounting plate retaining nut to 20 ft./lbs. See ILLUSTRATION 12a.

50. Decompress the coil spring on the strut assembly. Make sure that the spring is seated correctly into the strut assembly and aligned with the previously scribed index mark on the upper strut mounting plate.

51. Attach the new strut spacer (91-2539) to the top of the shock using the OE hardware. Torque to 47 ft./lbs. Fit the strut assembly and spacer into the stock mounting locations. Fasten using the supplied hardware on the top from hardware pack (90-6317) torque to 45-50 ft./lbs. See ILLUSTRATION 12b.

**NOTE:** *Be sure that the notch in the strut spacer (91-2539) is facing to the outside of the vehicle.*

**NOTE:** *Some early production kits may not have a notch cut in the (91-2539) spacer. If the spacer does not have the notch, position the spacer so the top end is angled with the lower end of taper facing the inside of the vehicle.*

52. Install the OE bolt through the lower strut mount and a-arm. Torque to 61 ft./lbs.
53. **WITH THE COIL OVERS.** Insert the mono ball spacers (90-2433) from pack (90-6450) in the top of the coil over as shown in ILLUSTRATION 13.
54. Insert the mono ball spacers (90-2550) from pack (90-6450) in the bottom of the coil over as shown in ILLUSTRATION 13.

**NOTE:** *The spacers are a tight fit. A press might be needed to fit the spacers into the mono balls.*

55. Install the new Pro Comp coil over shock (626000) to the upper bracket (91-3391) with the supplied 1/2" X 2 3/4" hardware from hardware pack (90-6318).

56. **ON THE DRIVER SIDE ONLY**, install the coil spacer (90-3396) onto the driver side upper coil over mount (91-3391) studs. See ILLUSTRATION 13.

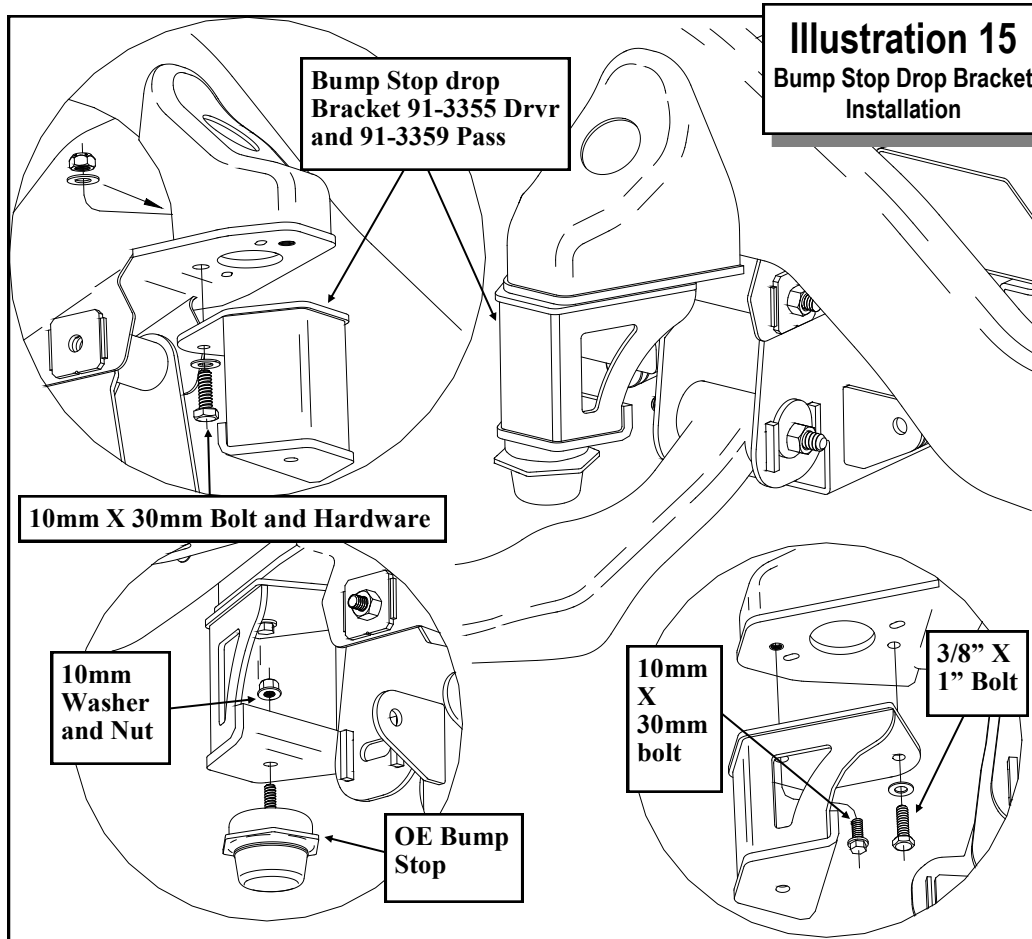
57. Fasten upper bracket to truck using the supplied 7/16" hardware on the top from hardware pack (90-6317) and torque to 45-50 ft./lbs. See ILLUSTRATION 13.

58. Install the OE bolt through the lower shock mount and a-arm. Torque to 61 ft./lbs.

**NOTE:** *Supplemental instructions for MX coil over installation are located in box 57396BMX-4/57097BMX-1.*

59. Repeat steps 45 through 52 (for use with strut spacer) or 53 through 58 (for use with coil





**Illustration 15**  
**Bump Stop Drop Bracket**  
**Installation**

over) on the remaining side of the vehicle.

60. Work on one side of the vehicle at a time.
61. Transfer rear dust seal out of the OE knuckles the new Pro Comp knuckles (90-4173 drvr and 90-4174 pass).

**NOTE: The factory backing plates will not be transferred and reused.**

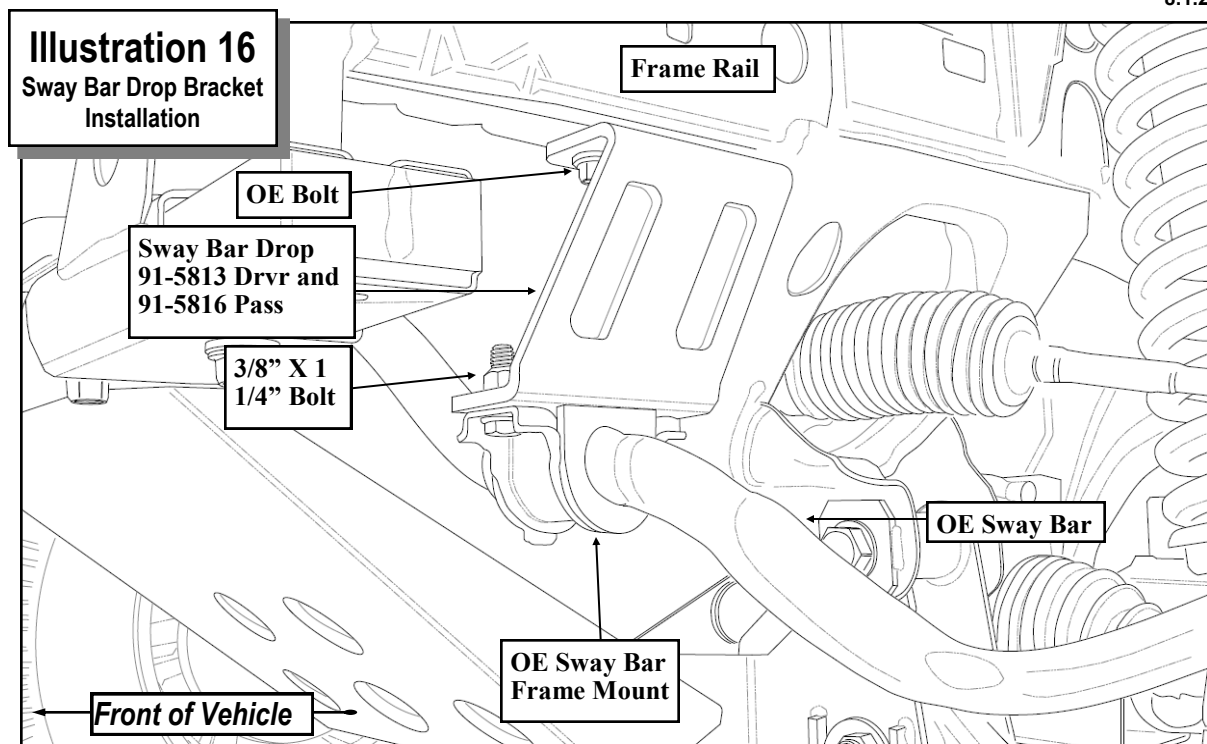
62. Support the lower A-arms and position the new knuckle (90-4173 drvr and 90-4174 pass) in place. Slide the CV axle through the knuckle from the rear and attach the knuckle to the upper ball joint. Torque to 81 Ft./lbs. Install a new cotter pins from pack 90-6623.
63. Secure the knuckle to the lower ball joint bracket using the (2) supplied 5/8" X 2" mounting bolts. Apply thread locking compound to the bolts. Torque the bolts to 125-150 ft./lbs.
64. Clean and grind the paint off of the upper and lower lip of the steering stop on the lower ball joint bracket. Clamp the steering stop extension plates (96-3399 drvr and 96-3400 pass)

into place on the steering stop. Place wet rags over the lower ball joint to protect from welding sparks. See ILLUSTRATION 14.

65. Weld a bead along the top and bottom of the extension plates to secure it to the lower ball joint bracket. See ILLUSTRATION 14.
66. After welding on the steering stop extension plates, clean the area thoroughly and paint the exposed metal with a good quality paint.

**NOTE: If you do not have access to a welder at this time the extension plates can be welded on at the completion of this installation or lower ball joint bracket can be removed and taken to a qualified welding shop.**

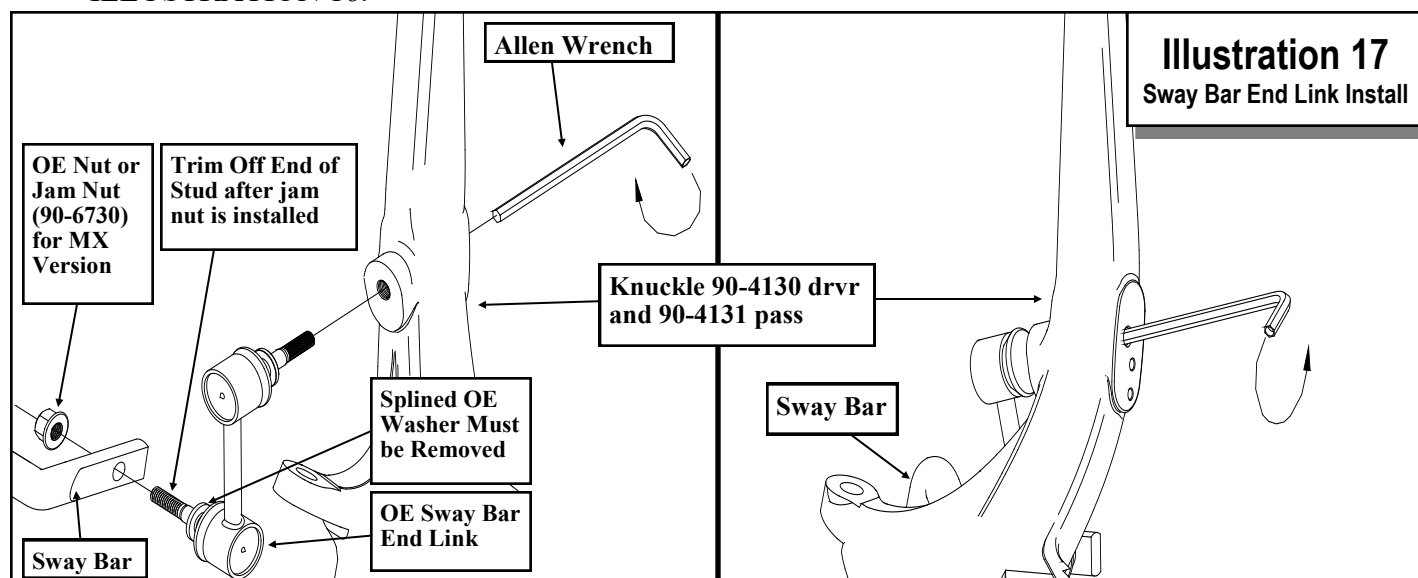
67. Repeat steps 61 through 66 on the remaining side of the vehicle.
68. Remove the factory bump stops from the frame.
69. Install the previously removed factory bump stop to the bump stop drop brackets (91-3355 drvr and 91-3359 pass) secure using the supplied 10mm washer and nut. See ILLUS-

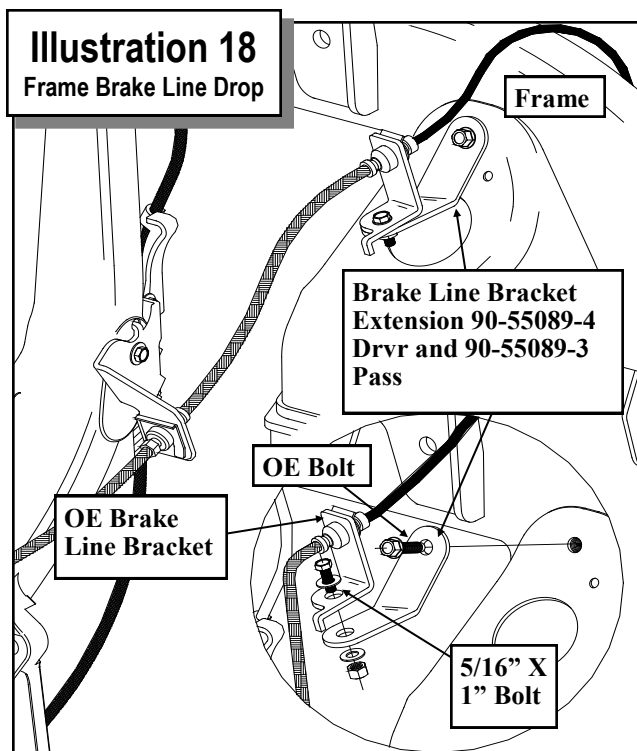


TRATION 15.

70. Install the new bump stop drop brackets to the frame using the **10mm** bolt and washer in the front threaded hole and the **3/8" X 1"** bolt and hardware in the rear unthreaded hole. Torque the hardware according to the chart on page 25. See ILLUSTRATION 15.
71. Repeat steps 68 through 70 on the remaining side of the vehicle.
72. Install the sway bar drop brackets (**91-5813 drvr** and **91-5816 pass**) to the original sway bar mounting holes in the frame, with the offset facing toward the front of the vehicle, using the **OE** bolts. Torque to **30** ft./lbs. See ILLUSTRATION 16.

73. The **OE** splined washers on the bottom end of the sway bar end links must be removed. Carefully tap the washer off the stud. See ILLUSTRATION 17.
74. Install the **OE** sway bar end links to the new knuckles. Position the links facing down. Torque the links according to factory specifications. See ILLUSTRATION 17.
75. Flip the sway bar over (drvr side to pass side) and install it to the new sway bar drop brackets using the supplied **3/8" X 1 1/4"** bolts and hardware. Leave hardware loose at this time. See ILLUSTRATION 16.
76. Reconnect the sway bar end links to the sway



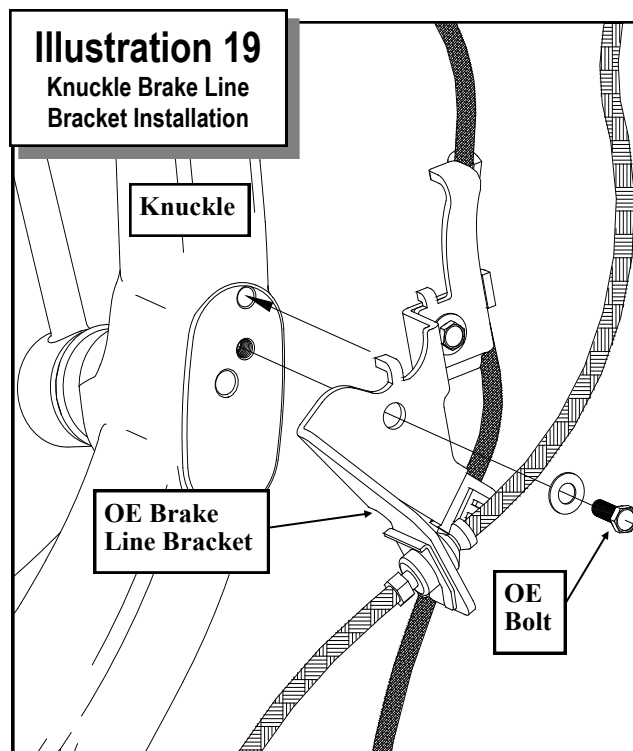


bar. Secure using the previously removed OE nut.

**IMPORTANT!:** For vehicles equipped with MX coil over shocks, secure the sway bar end links to the sway bar using the supplied jam nuts (90-6730). Be sure to use thread locker on jam nut.

**NOTE:** Be sure that the power steering or transmission coolant lines do not contact the sway bar. Reroute the lines if necessary.

77. Torque the remaining 3/8" sway bar drop hardware according to the chart on page 25.
78. **MX KIT ONLY:** Using a suitable cutting tool, (abrasive cutoff wheel, etc.) carefully trim off the end of the bottom sway bar link stud. See ILLUSTRATION 17.
79. On both sides of the vehicle, install the OE hub onto the CV axles and into new Pro Comp knuckles. Tighten all the OE hardware carefully. Be sure to follow the factory assembly procedures and torque the (4) wheel hub mounting bolts to 59 ft./lbs.
80. Attach the previously removed OE retaining nut to the end of the CV shaft. Torque to 173 Ft./lbs. Install a new cotter pin and reattach the dust cap.
81. Install the front rotors on to the front hubs.



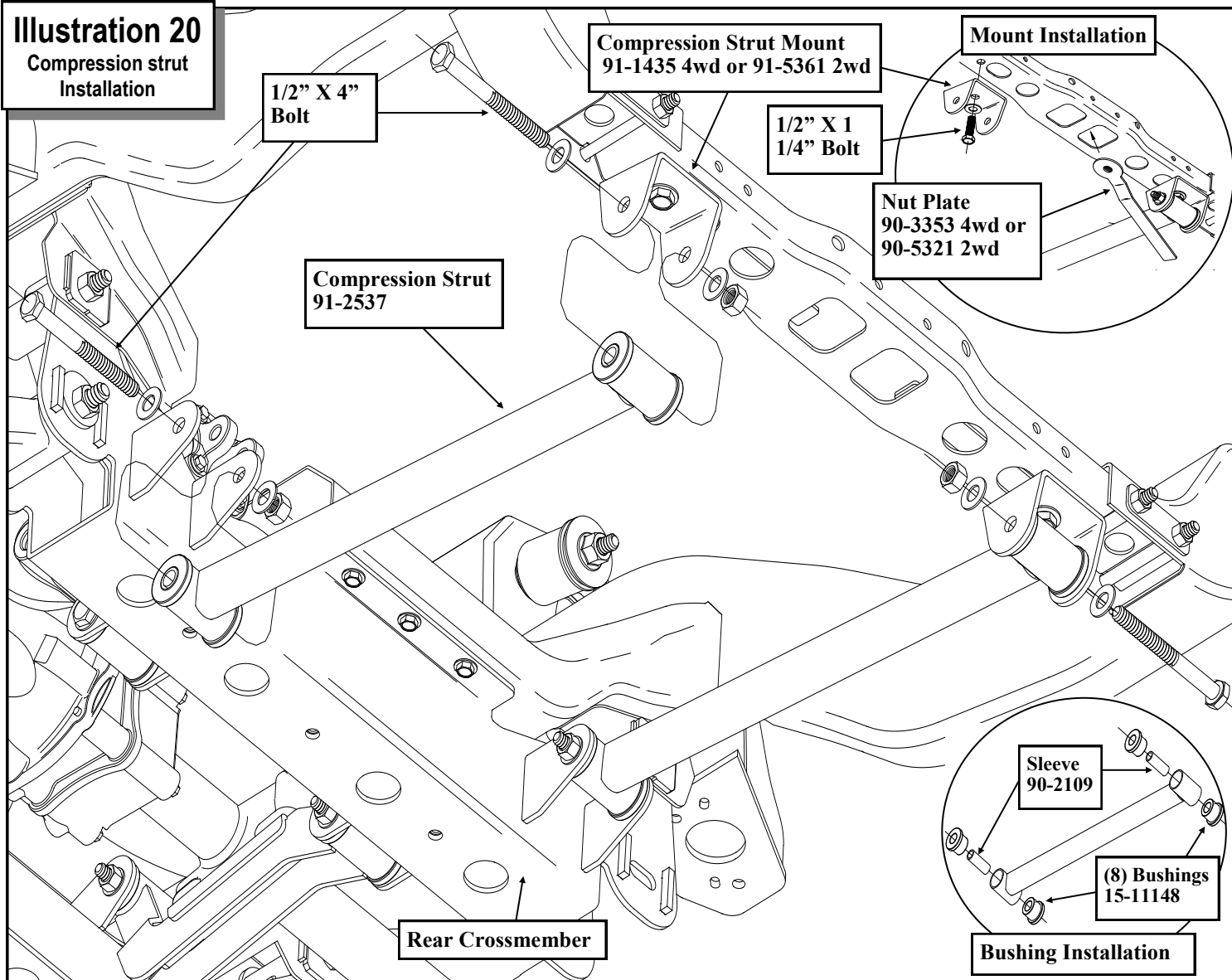
82. Unbolt the factory brake line bracket from the frame. Install the brake line drop (90-55089-4 drvr and 90-55089-3 pass) to the factory brake line bracket using the supplied 5/16" X 1". Secure the new brake line drop bracket to the original brake line mounting hole in the frame using the OE bolt. See ILLUSTRATION 18.

**NOTE:** You may need to unbolt the upper bracket behind the inner fender to provide enough slack in the line for it's new position.

83. Reinstall the brake calipers to the new knuckle using the previously removed OE bolts. Torque to 75-85 ft./lbs.
84. Reattach the OE knuckle brake line bracket to the new knuckle using the OE bolt. See ILLUSTRATION 19.
85. Connect the anti-lock wiring harness and sensor to the hub if applicable. Reroute the ABS line and secure the line to the threaded hole on the back of the new knuckle using the supplied Adel clamp and OE bolt. Secure the ABS sensor in place with the previously removed OE bolt.
86. Insert from the top and secure the tie rod end to the knuckle and torque to 67 ft./lbs. Install a new cotter pins from pack 90-6623.

## Illustration 20

### Compression strut Installation



87. Install the bushings (15-11148) and sleeves (90-2109) from hardware pack (90-6263) into the compression struts (91-2537).

88. Install the compression struts into the mounting tabs on the rear crossmember using supplied 1/2" X 4" hardware. See ILLUSTRATION 20.

89. Using the existing outer hole attach the compression strut mounts (91-1435 4wd or 91-5361 2wd) to the transmission crossmember. Use the 1/2" X 1 1/2" bolt and nut plate (90-3353 4wd or 90-5321 2wd) to secure the mounts to the crossmember. See ILLUSTRATION 20.

90. Rotate the compression struts up and secure them to the mounts using the supplied 1/2" X

4" bolt and hardware. See ILLUSTRATION 20.

91. Torque the compression strut hardware according to the chart on page 25.

92. 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. Use zip ties to secure these items to the steering components. At full droop, cycle the steering from lock to lock while observing the reaction of these components. Reposition them if needed.

93. Reconnect the negative battery cable to the battery.

94. Reinstall the wheels and lower the vehicle to the ground. Torque the lug nuts according to

the wheel manufacturers recommendations.

95. With the truck on the ground center the lower A-arm cam bolts and torque to 100 ft./lbs.
96. Center the steering wheel and lock it in place. Set the toe by adjusting the tie rod ends properly.
97. Lock the outer tie rod ends by tightening the **16mm** jam nuts.
98. Recheck all hardware for proper installation and torque at this time.

***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:**

- ⇒ **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 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 both sides of the vehicle, unbolt the emergency brake cable brackets from the leaf spring front hanger and the leaf spring clip. Save the hardware for reuse.
5. Remove the ABS wiring bracket from the frame and install the ABS wiring extension (90-1539). Use the OE bolt to secure the drop bracket to the frame. Reconnect the ABS wire bracket to the drop bracket using the supplied 5/16" X 1" bolt and hardware. See ILLUSTRATION 21.
6. Unbolt the OE brake line bracket, that connects the two rubber lines to the metal lines, from the rear axle.
7. Install the rear axle brake line relocation bracket (90-3341) to the rear end using the OE bolt. Carefully rotate the factory brake line bracket forward and secure to the brake line bracket using the supplied 5/16" X 1". See ILLUSTRATION 22.

8. Work on one side of the vehicle at a time.
9. 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 and carefully lower the rear axle.

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

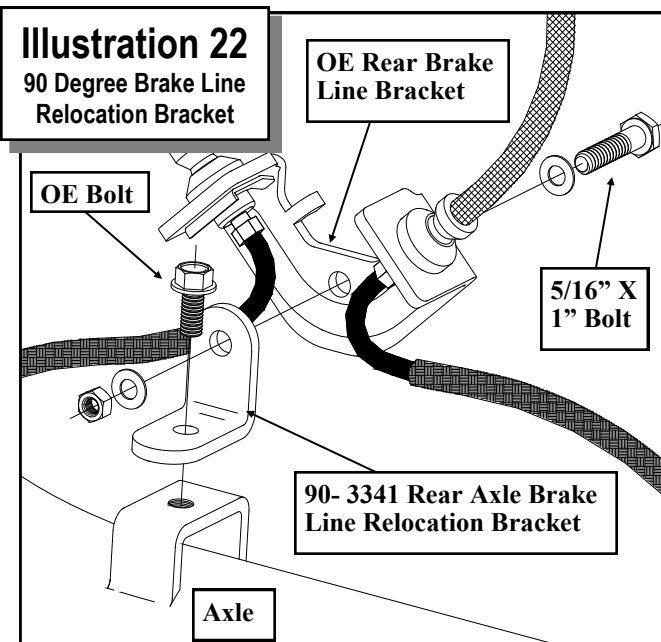
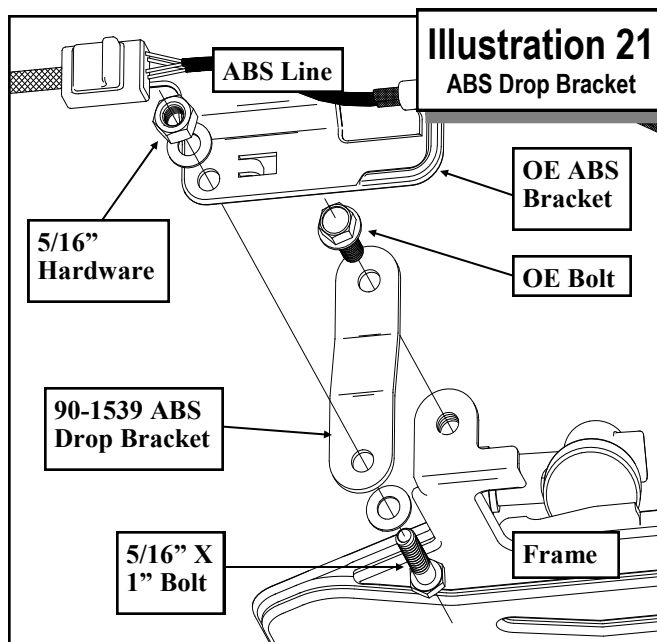
10. Use C-clamps to hold the leaves of the rear leaf spring together and remove spring center bolt.
11. Disassemble the leaf spring and insert the add-a-leaf (13129-1 or 13120-1). See ILLUSTRATION 23.

**NOTE:** Add-a-leaf will be placed in the spring assembly progressively according to length. For example, if the existing leaves are 32" long and 25" long and the add-a-leaf is 28" long, place the add-a-leaf between the existing leaves.

12. Using the C-clamps, re-clamp and bolt the leaf pack back together using the supplied center bolt (97-380) with the head of the bolt facing down. See ILLUSTRATION 23.

**NOTE:** It will be necessary to cut the center pin bolt to allow for reattachment of the rear OE bump stop.

13. Install the lift block (95-251), making sure



the pins fit properly into the holes on the spring perch. Use your floor jack to raise the axle to the spring. Make sure the pin on the leaf spring fit into the holes on the new lift block. See ILLUSTRATION 23.

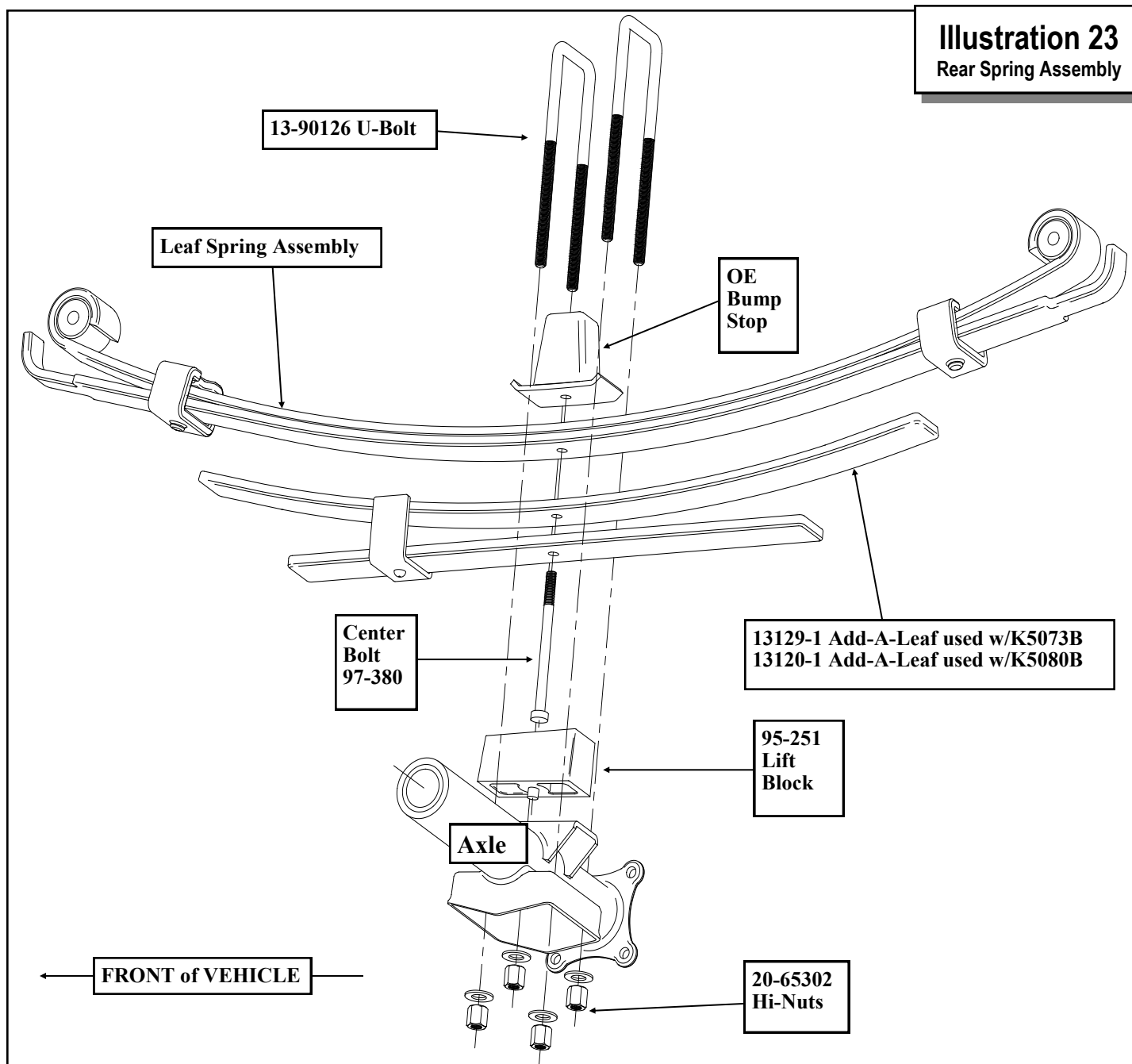
**NOTE:** These blocks are slightly tapered and the short side of the taper is oriented to the front of the vehicle,

14. Secure the assembly with the **U-bolts (13-90126)** and new hi-nuts and washers from

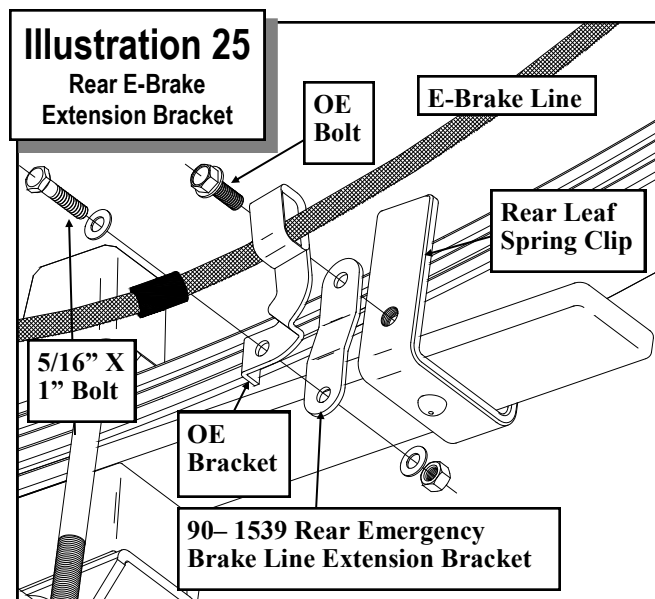
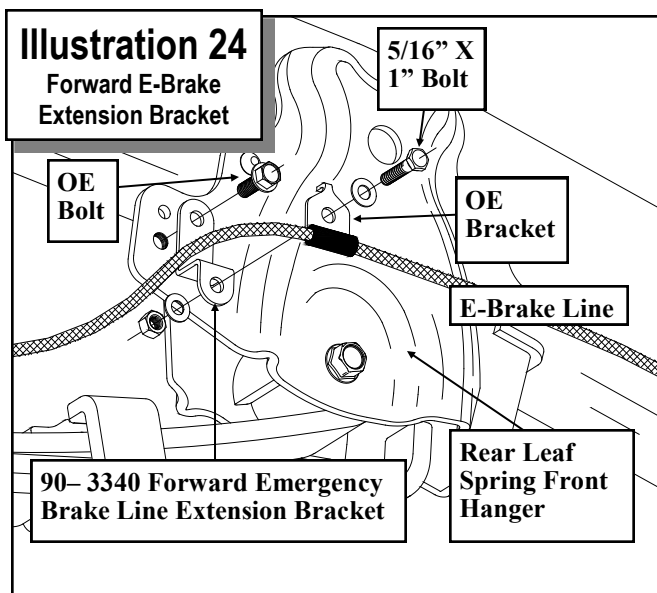
hardware pack **(20-65302)**. Do not torque the **U-bolts** at this time. See ILLUSTRATION 23.

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

15. Repeat the installation on the other side of the vehicle.
16. When the installation of the remaining side is complete, torque the **U-bolts** to **85 ft./lbs.**







17. Bolt the forward emergency brake cable drop bracket (**90-3340**) using the supplied **5/16" X 1"** bolt and hardware. Secure the drop bracket to the leaf spring front hanger using the previously removed **OE** bolt. See ILLUSTRATION 24.
18. Bolt the rear factory emergency brake cable bracket to the supplied rear emergency brake line drop (**90-1539**) using the supplied **5/16" X 1"** bolt and hardware. Secure the drop bracket to the leaf spring clip using the previously removed **OE** hardware. See ILLUSTRATION 25.
19. Install the new Pro Comp shock absorbers (**MX6142, 927710 w/shaft end up or ZX2050**) using the previously removed **OE** bolts. Torque this hardware to **74** ft./lbs.
20. Unbolt the rear driveshaft carrier bearing from the frame. Insert the (2) carrier bearing spacers (**90-2524**) between the frame and the bearing housing. Secure using the longer supplied **10mm-1.25 X 50mm** bolts and washers.

**NOTE:** *If driveshaft vibration occurs after inserting the 3/4" carrier bearing spacers (90-2524), they may be swapped out for the 1" carrier bearing spacers (90-2309) in order to stop the vibration.*

**IMPORTANT!** *If driveline vibration cannot be corrected by installing the supplied carrier bearing spacers, purchase and install*

*transmission crossmember kit (57091 sold separately).*

21. Check all hardware at this time to ensure that everything is tight. Check for adequate clearance on all repositioned brake lines and emergency brake cables. Make sure you check with the suspension fully extended, and compressed.
22. Reinstall the wheels and lower the vehicle to the ground. Torque the lug nuts according to the wheel manufacturers recommendations.

### **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.**



### Revisions Page:

**10.18.11:** Added K5080Binfo to the cover and box 6 of the BOM. Added K5080B information to illustration 23 on pg. 23. Added hardware pack 90-6623 to BOM box-2. Moved text step 72 to step 87. Swapped text steps 74 and 75. Updated optional equipment box information. Updated 2wd note about nut plate 90-4322 in illustration #9 on pg. 13 and text note after step 37 on page #14. Updated all applicable 90 part numbers to 91. Updated the kit box PN's. Added hardware pack 90-6454 to BOX-2.

**4.1.13:** Updated cover, contact info and warranty page. Updated illustration #16.

**7.30.13:** Updated cover page kit fitment box information. Added BP/BPS/BPX information K5073B for to the BOM and the text.

**9.21.14:** Updated cover page kit fitment box information. Added BP/BPS/BPX information for K5080B to the BOM and the text.

**9.27.14:** Added note after step 48.

**7.26.21:** Added Instance K5073T/M/MS and K5080T/ M/ MS

**8.1.24:** Updated kit part number. Updated address.

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

D T L X

**Grade 5    Grade 8**

(No. of Marks + 2)

M12-1.25x50 HHCS

D T L X

**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 = Property Class (Bolt Strength)

D = Nominal Diameter (Millimeters)

T = Thread Pitch (Thread Width, mm)

L = Length (Millimeters)

X = Description (Hex Head Cap Screw)



## **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

**PLACE**  
**WARRANTY REGISTRATION**  
**NUMBER**  
**HERE:** \_\_\_\_\_