



INSTALLATION INSTRUCTIONS



**2014-2017 GM C/K1500 2WD/4WD
6" BASIC & PERFORMANCE SYSTEMS**

FTS21138

**- PARTS LIST -
6" BASIC SYSTEM - FACTORY STEEL SUSPENSION**

K1067 6" BASIC SYSTEM W/PERFORMANCE SHOCKS		
1	FTS21137	COMPONENT BOX 1
1	FTS21138	SPACER KIT
1	FTS21140	COMPONENT BOX 2 - STEEL
2	FTS7240	REAR PERFORMANCE SHOCK

FTS21137 COMPONENT BOX 1		
1	FT20610BK	FRONT CROSSMEMBER
1	FT20611BK	REAR CROSSMEMBER
2	FT20284BK	CROSSMEMBER SUPPORT TUBE
1	FT20304BK	DIFF SKID PLATE
1	FT20634	HARDWARE KIT
1	FT20312	SWAY BAR FRAME BRACKET (DRIVER)
1	FT20318	SWAY BAR FRAME BRACKET (PASSENGER)
1	FT20365	DIFF BRACKET
1	FT20347	DIFF BRACKET (DRIVER)
1	FT20633	DIFF BRACKET (PASSENGER)
1	FT20615	HARDWARE SUBASSEMBLY

FTS21138 SPACER KIT		
1	FT20295	HARDWARE KIT
2	FT20323BK	SHOCK EXTENSION
2	FT20339BK	SHOCK MOUNT TO ARM
1	FT20733	HARDWARE SUBASSEMBLY
4	FT20568BK	SHOCK BRACKET

FTS21140 COMPONENT BOX 2 - STEEL		
4	FT1500U-3	U-BOLT SQ 9/16-18 X 12.50 X 2.63
2	FT20743	REAR ADD-A-LEAF
2	FT20025	REAR BUMPSTOP SPACERS
2	FT20289	CV SPACER
1	FT20616	HARDWARE SUBASSEMBLY
2	FTBK5	BLOCK 5.0 IN
1	FTS20613D	SPINDLE (DRIVER)
1	FTS20613P	SPINDLE (PASSENGER)

FT20615 HARDWARE SUBASSEMBLY		
2	FT20602	SWAY BAR LINK BRACKET
1	FT20313	FRONT BRAKE LINE BRACKET (DRIVER)
1	FT20314	FRONT BRAKE LINE BRACKET (PASSENGER)
1	FT90085	BUSHING KIT

FT20733 HARDWARE SUBASSEMBLY		
4	FT1036	BUSHING HALF
2	FT148	SLEEVE 1.250 X .530 X 2.400
4	FT20342	ALUMINUM SHOCK MOUNT BUSHING
4	FT20352	LOWER MOUNT SHIM TRUCK
4	FT20351	ALUMINUM SHOCK MOUNT BUSHING (AUTO)

FT20634 - HARDWARE KIT		LOCATION
20	M10 FLAT WASHER ZINC	
4	M10-1.5 C-LOCK NUT	
4	M10-1.5 X 30MM HEX HD	
12	M10-1.5 X 50MM HEX HD	
6	7.5" STANDARD CABLE TIE BLACK	
4	M18 FLAT WASHER	
2	M18-2.5 GRADE C LOCK NUT	
2	M18-2.5 X 50MM HEX HEAD	
10	1/4 SAE WASHER	
2	1/4 LOCK WASHER	
4	1/4-20 C-LOCK NUT	
6	1/4-20 X 3/4 HEX BOLT G5 ZINC	
12	7/16 SAE WASHER G8 ZINC	
6	7/16-14 C-LOCK NUT ZINC	
2	7/16-14 X 1 1/4 HEX HD	
4	7/16-14 X 2-1/4 HEX BOLT	
1	1/2-13 X 4 1/2 HEX BOLT	
12	1/2 SAE WASHER	
7	1/2-13 C-LOCK NUT	
1	1/2-13 X 1-1/4 HEX BOLT	
3	1/2-13 X 1-3/4 HEX BOLT	
1	1/2-12 x 2" CARRIAGE BOLT	
8	5/8 SAE WASHER G8	
4	LOCK NUT STOVER 5/8"-11	
2	5/8-11 X 5" HEX HEAD	
2	5/8-11 X 5-3/4 HEX HEAD	
2	CLAMP 3/8X1/2W .26THK NEOPRENE	
1	THREAD LOCKING COMPOUND 1 MIL	

FT20616 HARDWARE SUBASSEMBLY		
4	12008007100	ZIP TIE 8" BLACK 40 LBS
2	37240003952	CENTER PIN NUT
2	CB-06X5	CENTER PIN BOLT 3/8"-24 X 5"
2	FT20277	OUTER TIE ROD
1	FT20300	6 LUG 1/4" WHEEL SPACER
1	FT20349	REAR BRAKE LINE BRACKET
1	FT20353	HARDWARE KIT
1	FT21138I	INSTRUCTIONS
1	FT916H	9/16" U-BOLT HARDWARE KIT

- PARTS LIST -
6" BASIC SYSTEM - FACTORY STEEL SUSPENSION - CONTINUED

FT20295 - HARDWARE KIT		LOCATION
4	7/16"-14 X 2 1/2" HEX CAP BOLT	STRUT MOUNT BRACKET
4	7/16"-14 C-LOCKS	
8	7/16" SAE FLAT WASHER	
4	1/2"-13 X 4" HEX CAP BOLT	STRUT. EXT. TO BRACKET
2	1/2"-13 X 3 3/4" HEX CAP BOLTS	FRONT LOWER STRUT
6	1/2"-13 C-LOCKS	
12	1/2" SAE FLAT WASHER	
8	5/16"-18 X 1 1/2" HEX CAP BOLT	STRUT MOUNT BRACKETS
8	5/16"-18 C-LOCKS	
16	5/16" SAE FLAT WASHER	

FT20353 - HARDWARE KIT		LOCATION
1	5/16"-16 X 1" HEX CAP BOLT	REAR BRAKE LINE
1	5/16"-16 C-LOCK	
2	5/16" SAE FLAT WASHER	
2	10MM-1.5 X 20MM BOLT	BUMP STOP
2	10MM-1.5 X 25MM BOLT	
2	10MM FLAT WASHER	

- PARTS LIST -
6" PERFORMANCE SYSTEM - FACTORY STEEL SUSPENSION

K1067DB		6" PERFORMANCE SYSTEM W/DIRT LOGICS
1	FTS21137	COMPONENT BOX 1
1	FTS21140	COMPONENT BOX 2 - STEEL
1	FTS210431	FRONT DIRT LOGIC 2.5 COILOVERS
2	FTS810561	REAR DIRT LOGIC 2.25 NON RESI

FTS21137		COMPONENT BOX 1
1	FT20610BK	FRONT CROSSMEMBER
1	FT20611BK	REAR CROSSMEMBER
2	FT20284BK	CROSSMEMBER SUPPORT TUBE
1	FT20304BK	DIFF SKID PLATE
1	FT20634	HARDWARE KIT
1	FT20312	SWAY BAR FRAME BRACKET (DRIVER)
1	FT20318	SWAY BAR FRAME BRACKET (PASSENGER)
1	FT20347	DIFF BRACKET (DRIVER)
1	FT20633	DIFF BRACKET (PASSENGER)
1	FT20615	HARDWARE SUBASSEMBLY

FTS21140		COMPONENT BOX 2 - STEEL
4	FT1500U-3	U-BOLT SQ 9/16-18 X 12.50 X 2.63
2	FT20743	REAR ADD-A-LEAF
2	FT20025	REAR BUMPSTOP SPACERS
2	FT20289	CV SPACER
1	FT20616	HARDWARE SUBASSEMBLY
2	FTBK5	BLOCK 5.0 IN
1	FTS20613D	SPINDLE (DRIVER)
1	FTS20613P	SPINDLE (PASSENGER)

FT20615		HARDWARE SUBASSEMBLY
2	FT20602	SWAY BAR LINK BRACKET
1	FT20313	FRONT BRAKE LINE BRACKET (DRIVER)
1	FT20314	FRONT BRAKE LINE BRACKET (PASSENGER)

FT20616		HARDWARE SUBASSEMBLY
4	12008007100	ZIP TIE 8" BLACK 40 LBS
2	37240003952	CENTER PIN NUT
2	CB-06X5	CENTER PIN BOLT 3/8"-24 X 5"
2	FT20277	OUTER TIE ROD
1	FT20300	6 LUG 1/4" WHEEL SPACER
1	FT20349	REAR BRAKE LINE BRACKET
1	FT20353	HARDWARE KIT
2	FT21138I	INSTRUCTIONS
1	FT916H	9/16" U-BOLT HARDWARE KIT

FT20634 - HARDWARE KIT		LOCATION
20	M10 FLAT WASHER ZINC	
4	M10-1.5 GR C (CL 10) C-LOCK NUTS	
4	M10-1.5 X 30MM HEX HD	
12	M10-1.5 X 50MM HEX HD	
6	7.5" STANDARD CABLE TIE BLACK	
4	M18 FLAT WASHER	
2	M18-2.5 GRADE C LOCK NUT	
2	M18-2.5 X 50MM HEX HEAD	
10	1/4 SAE WASHER	
2	1/4 LOCK WASHER	
4	1/4-20 C-LOCK NUT	
6	1/4-20 X 3/4 HEX BOLT G5 ZINC	
12	7/16 SAE WASHER G8 ZINC	
6	7/16-14 C-LOCK NUT ZINC	
2	7/16-14 X 1 1/4 HEX HD	
4	7/16-14 X 2-1/4 HEX BOLT	
1	1/2-13 X 4 1/2 HEX BOLT	
12	1/2 SAE WASHER	
7	1/2-13 C-LOCK NUT	
1	1/2-13 X 1-1/4 HEX BOLT	
3	1/2-13 X 1-3/4 HEX BOLT	
1	1/2-12 x 2" CARRIAGE BOLT	
8	5/8 SAE WASHER G8	
4	LOCK NUT STOVER 5/8"-11	
2	5/8-11 X 5" HEX HEAD	
2	5/8-11 X 5-3/4 HEX HEAD	
2	CLAMP 3/8X1/2W .26THK NEOPRENE	
1	THREAD LOCKING COMPOUND 1 MIL	

- PARTS LIST -

6" BASIC SYSTEM - FACTORY ALUMINUM & STAMPED STEEL SUSPENSION

K1068		6" BASIC SYSTEM W/PERFORMANCE SHOCKS
1	FTS21137	COMPONENT BOX 1
1	FTS21138	SPACER KIT
1	FTS21139	COMPONENT BOX 2 - ALUMINUM
2	FTS7240	REAR PERFORMANCE SHOCK

FTS21137		COMPONENT BOX 1
1	FT20610BK	FRONT CROSSMEMBER
1	FT20611BK	REAR CROSSMEMBER
2	FT20284BK	CROSSMEMBER SUPPORT TUBE
1	FT20304BK	DIFF SKID PLATE
1	FT20634	HARDWARE KIT
1	FT20312	SWAY BAR FRAME BRACKET (DRIVER)
1	FT20318	SWAY BAR FRAME BRACKET (PASSENGER)
1	FT20347	DIFF BRACKET (DRIVER)
1	FT20633	DIFF BRACKET (PASSENGER)
1	FT20615	HARDWARE SUBASSEMBLY

FTS21138		SPACER KIT
1	FT20295	HARDWARE KIT
2	FT20323BK	SHOCK EXTENSION
2	FT20339BK	SHOCK MOUNT TO ARM
1	FT20733	HARDWARE SUBASSEMBLY
4	FT20568BK	SHOCK BRACKET

FTS21139		COMPONENT BOX 2 - ALUMINUM
4	FT1500U-3	U-BOLT SQ 9/16-18 X 12.50 X 2.63
2	FT20743	REAR ADD-A-LEAF
2	FT20025	REAR BUMP STOP SPACERS
2	FT20289	CV SPACER
1	FT20687	HARDWARE SUBASSEMBLY
2	FTBK5	BLOCK 5.0 IN
1	FTS20612D	SPINDLE (DRIVER)
1	FTS20612P	SPINDLE (PASSENGER)

FT20615		HARDWARE SUBASSEMBLY
2	FT20602	SWAY BAR LINK BRACKET
1	FT20313	FRONT BRAKE LINE BRACKET (DRIVER)
1	FT20314	FRONT BRAKE LINE BRACKET (PASSENGER)

FT20733		HARDWARE SUBASSEMBLY
4	FT1036	BUSHING HALF
2	FT148	SLEEVE 1.250 X .530 X 2.400
4	FT20342	ALUMINUM SHOCK MOUNT BUSHING
4	FT20352	LOWER MOUNT SHIM TRUCK
4	FT20351	ALUMINUM SHOCK MOUNT BUSHING (AUTO)

FT20634 - HARDWARE KIT		LOCATION
20	M10 FLAT WASHER ZINC	
4	M10-1.5 (CL 10) C-LOCK NUT	
4	M10-1.5 X 30MM HEX HD	
12	M10-1.5 X 50MM HEX HD	
6	7.5" STANDARD CABLE TIE BLACK	
4	M18 FLAT WASHER	
2	M18-2.5 GRADE C LOCK NUT	
2	M18-2.5 X 50MM HEX HEAD	
10	1/4 SAE WASHER	
2	1/4 LOCK WASHER	
4	1/4-20 GR C-LOCK NUT	
6	1/4-20 X 3/4 HEX BOLT G5 ZINC	
12	7/16 SAE WASHER G8 ZINC	
6	7/16-14 C-LOCK NUT ZINC	
2	7/16-14 X 1 1/4 HEX HD	
4	7/16-14 X 2-1/4 HEX BOLT	
1	1/2-13 X 4 1/2 HEX BOLT	
12	1/2 SAE WASHER	
7	1/2-13 C-LOCK NUT	
1	1/2-13 X 1-1/4 HEX BOLT	
3	1/2-13 X 1-3/4 HEX BOLT	
1	1/2-12 x 2" CARRIAGE BOLT	
8	5/8 SAE WASHER G8	
4	LOCK NUT STOVER 5/8"-11	
2	5/8-11 X 5" HEX HEAD	
2	5/8-11 X 5-3/4 HEX HEAD	
2	CLAMP 3/8X1/2W .26THK NEOPRENE	
1	THREAD LOCKING COMPOUND 1 MIL	

FT20687		HARDWARE SUBASSEMBLY
4	12008007100	ZIP TIE 8" BLACK 40 LBS
2	37240003952	CENTER PIN NUT
2	CB-06X5	CENTER PIN BOLT 3/8"-24 X 5"
2	FT20277	OUTER TIE ROD
1	FT20300	6 LUG 1/4" WHEEL SPACER
1	FT20349	REAR BRAKE LINE BRACKET
1	FT20353	HARDWARE KIT
2	FT21138I	INSTRUCTIONS
1	FT916H	9/16" U-BOLT HARDWARE KIT
2	FT20613	WASHER UPPER BALL JOINT
2	FT20614	WASHER LOWER BALL JOINT

- PARTS LIST -
6" BASIC SYSTEM - FACTORY ALUMINUM & STAMPED STEEL SUSPENSION -
CONTINUED

FT20295 - HARDWARE KIT		LOCATION
4	7/16"-14 X 2 1/2" HEX CAP BOLT	STRUT MOUNT BRACKET
4	7/16"-14 C-LOCKS	
8	7/16" SAE FLAT WASHER	
4	1/2"-13 X 4" HEX CAP BOLT	STRUT. EXT. TO BRACKETS
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8	5/16"-18 X 1 1/2" HEX CAP BOLT	STRUT MOUNT BRACKETS
8	5/16"-18 C-LOCKS	
16	5/16" SAE FLAT WASHER	

FT20353 - HARDWARE KIT		LOCATION
1	5/16"-16 X 1" HEX CAP BOLT	REAR BRAKE LINE
1	5/16"-16 C-LOCK	
2	5/16" SAE FLAT WASHER	
2	10MM-1.5 X 20MM BOLT	BUMP STOP
2	10MM-1.5 X 25MM BOLT	
2	10MM FLAT WASHER	

6" PERFORMANCE SYSTEM - FACTORY ALUMINUM & STAMPED STEEL SUSPENSION

K1068		6" PERFORMANCE SYSTEM W/DIRT LOGICS
1	FTS21137	COMPONENT BOX 1
1	FTS21139	COMPONENT BOX 2 - ALUMINUM
1	FTS210431	FRONT DIRT LOGIC 2.5 COILOVERS
2	FTS810561	REAR DIRT LOGIC 2.25 NON RESI

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1	FT20610BK	FRONT CROSSMEMBER
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1	FT20304BK	DIFF SKID PLATE
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1	FT20633	DIFF BRACKET (PASSENGER)
1	FT20615	HARDWARE SUBASSEMBLY

FTS21139		COMPONENT BOX 2 - ALUMINUM
4	FT1500U-3	U-BOLT SQ 9/16-18 X 12.50 X 2.63
2	FT20743	REAR ADD-A-LEAF
2	FT20025	REAR BUMPSTOP SPACERS
2	FT20289	CV SPACER
1	FT20687	HARDWARE SUBASSEMBLY
2	FTBK5	BLOCK 5.0 IN
1	FTS20612D	SPINDLE (DRIVER)
1	FTS20612P	SPINDLE (PASSENGER)

FT20615		HARDWARE SUBASSEMBLY
2	FT20602	SWAY BAR LINK BRACKET
1	FT20313	FRONT BRAKE LINE BRACKET (DRIVER)
1	FT20314	FRONT BRAKE LINE BRACKET (PASSENGER)

FT20687		HARDWARE SUBASSEMBLY
4	12008007100	ZIP TIE 8" BLACK 40 LBS
2	37240003952	CENTER PIN NUT
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1	FT916H	9/16" U-BOLT HARDWARE KIT
2	FT20613	WASHER UPPER BALL JOINT
2	FT20614	WASHER LOWER BALL JOINT

FT20634 - HARDWARE KIT		LOCATION
20	M10 FLAT WASHER ZINC	
4	M10-1.5 C-LOCK NUT	
4	M10-1.5 X 30MM HEX HD	
12	M10-1.5 X 50MM HEX HD	
6	7.5" STANDARD CABLE TIE BLACK	
4	M18 FLAT WASHER	
2	M18-2.5 GRADE C LOCK NUT	
2	M18-2.5 X 50MM HEX HEAD	
10	1/4 SAE WASHER	
2	1/4 LOCK WASHER	
4	1/4-20 C-LOCK NUT	
6	1/4-20 X 3/4 HEX BOLT G5 ZINC	
12	7/16 SAE WASHER G8 ZINC	
6	7/16-14 C-LOCK NUT ZINC	
2	7/16-14 X 1 1/4 HEX HD	
4	7/16-14 X 2-1/4 HEX BOLT	
1	1/2-13 X 4 1/2 HEX BOLT	
12	1/2 SAE WASHER	
7	1/2-13 C-LOCK NUT	
1	1/2-13 X 1-1/4 HEX BOLT	
3	1/2-13 X 1-3/4 HEX BOLT	
1	1/2-12 x 2" CARRIAGE BOLT	
8	5/8 SAE WASHER G8	
4	LOCK NUT STOVER 5/8"-11	
2	5/8-11 X 5" HEX HEAD	
2	5/8-11 X 5-3/4 HEX HEAD	
2	CLAMP 3/8X1/2W .26THK NEOPRENE	
1	THREAD LOCKING COMPOUND 1 MIL	



- TOOL LIST -

Required Tools (Not Included)

Basic Hand Tools
Floor Jack
Jack Stands
Assorted Metric and S.A.E sockets, and Allen wrenches
Torque Wrench
Die Grinder w/ Cutoff Wheel or Sawzall

- PRE-INSTALLATION NOTES -

Read this before you begin installation-

Check all parts to the parts list above before beginning installation.

Read all instructions thoroughly from start to finish before beginning the installation. If these instructions are not properly followed severe frame, driveline and / or suspension damage may occur.

Check your local city and state laws prior to the installation of this system for legality. Do not install if not legal in your area.

Prior to the installation of this suspension system perform a front end alignment and record. Do not install this system if the vehicle alignment is not within factory specifications. Check for frame and suspension damage prior to installation.

The installation of this suspension system should be performed by two professional mechanics.

This suspension must be installed with Fabtech shock absorbers.

Use the provided thread locking compound on all hardware.

WARNING- Installation of this system will alter the center of gravity of the vehicle and may increase roll over as compared to stock.

Vehicles that receive oversized tires should check ball joints, uniballs, tie rods ends, pitman arm and idler arm every 2500-5000 miles for wear and replace as needed.

Verify differential fluid is at manufactures recommended level prior to kit installation. Installation of the kit will reposition the differential and the fill plug hole may be in a different position. (For example, if the manufacture recommends 3 quarts of fluid, make sure the diff has 3 quarts of fluid). Check your specific manual for correct amount of fluid.

Do not operate vehicle in 4WD on hard surfaces. Some vehicles may experience front driveline vibration in 4WD. Order FTS21192 CV Driveshaft Kit if occurs

FOOTNOTES -

- Will not fit models with Factory AutoRide shocks.
- Will not fit all wheel drive models.
- Cannot use OEM wheel and tire.
- Does not fit standard cab.

- INSTRUCTIONS -

FRONT SUSPENSION

1. Disconnect the negative terminal on the battery. Jack up the front end of the truck and support the frame rails with jack stands. **NEVER WORK UNDER AN UNSUPPORTED VEHICLE!** Remove the front tires.
2. Working from front of the truck, disconnect the tie rod ends from the steering knuckle by striking the knuckle to dislodge the tie rod end. Use care not to damage the tie rod end when removing. **SEE FIGURE 1**

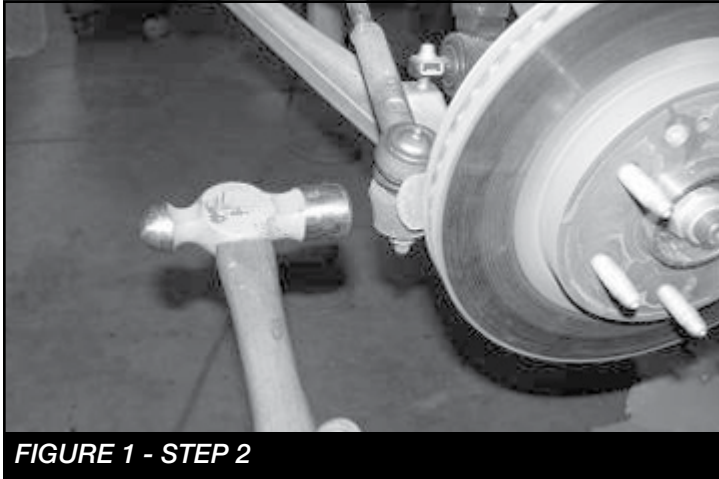


FIGURE 1 - STEP 2

3. Unplug the ABS brake connection from the frame and control arm. Remove the brake hose bracket from the steering knuckle. Remove the brake hose bracket from the coil bucket and save hardware. Remove the caliper from the rotor and secure the brake caliper to the frame out of the way. **DO NOT ALLOW THE BRAKE CALIPER TO HANG FROM THE BRAKE LINE HOSE. SEE FIGURE 2**



FIGURE 2 - STEP 3

4. Remove the wheel stud clips and discard. Remove bearing cover, axle nut, washer, and rotor with hub bearing. **(DO NOT REMOVE THE HUB BEARING FROM THE ROTOR).** Retain parts and hardware for reinstallation. **SEE FIGURES 3-4**

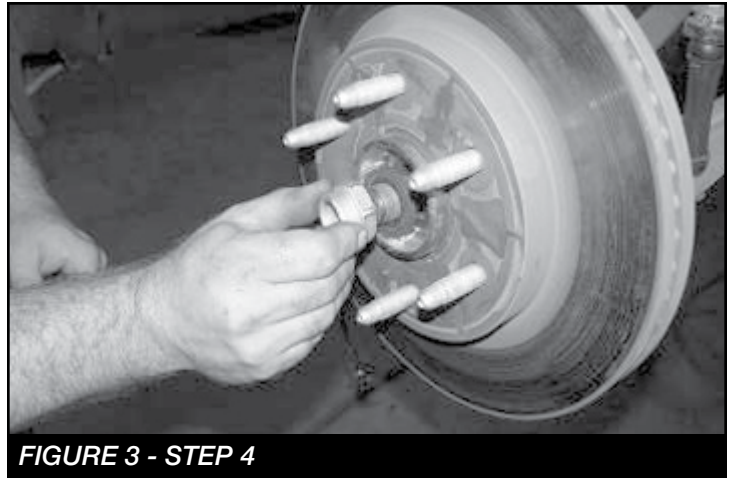


FIGURE 3 - STEP 4

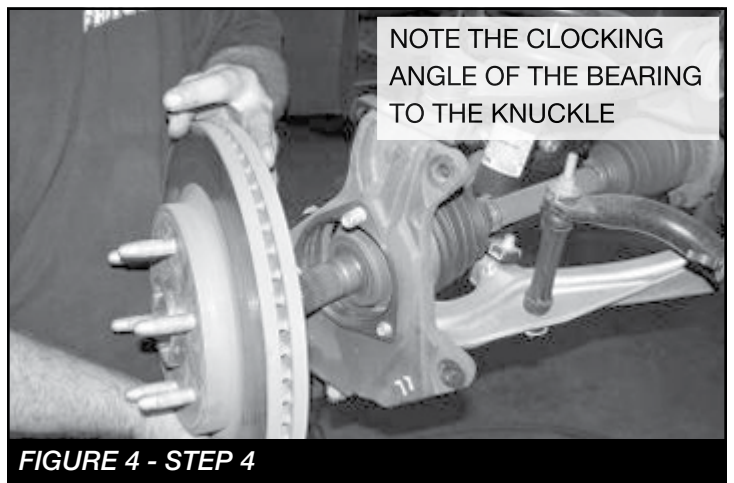


FIGURE 4 - STEP 4

5. Remove the upper and lower ball joint nuts. Disconnect the upper and lower ball joints from the steering knuckle by striking the knuckle with a large hammer next to each ball joint on the knuckle to dislodge the ball joints. Use care not to hit the ball joints when removing. Save nuts and discard knuckle. **SEE FIGURE 5**

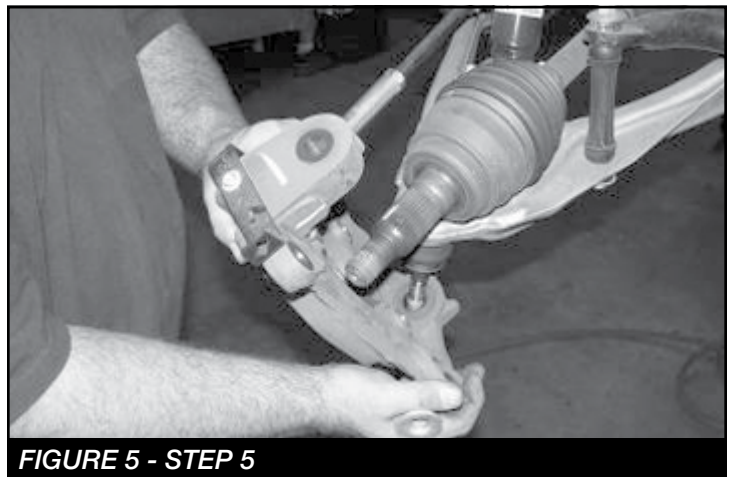
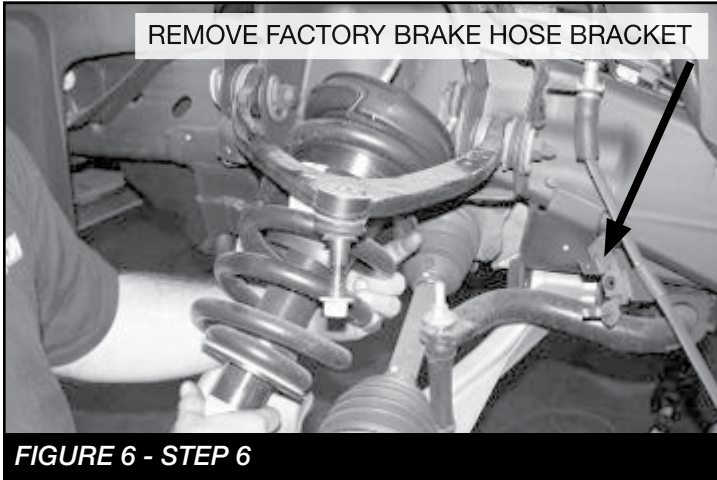
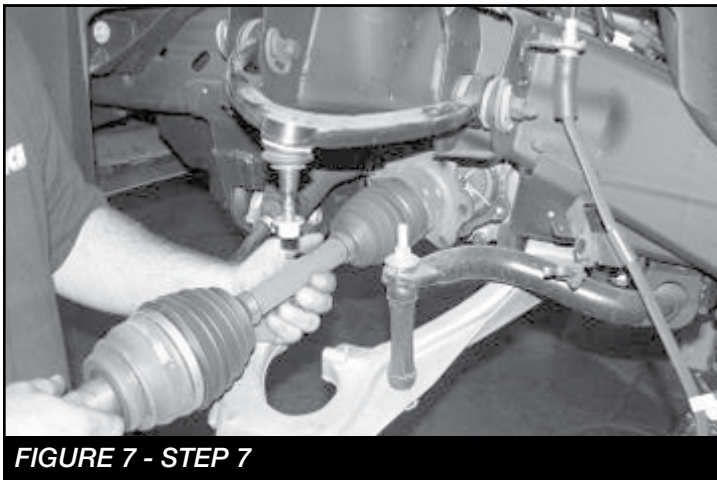


FIGURE 5 - STEP 5

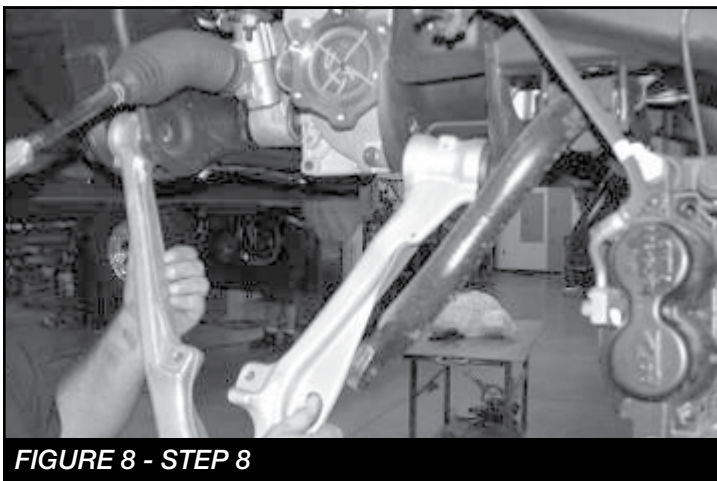
6. Remove the shock assembly and save with the hardware. Remove and discard the factory brake line bracket from the brake hose that attached the hose to the upper control arm. **SEE FIGURE 6**



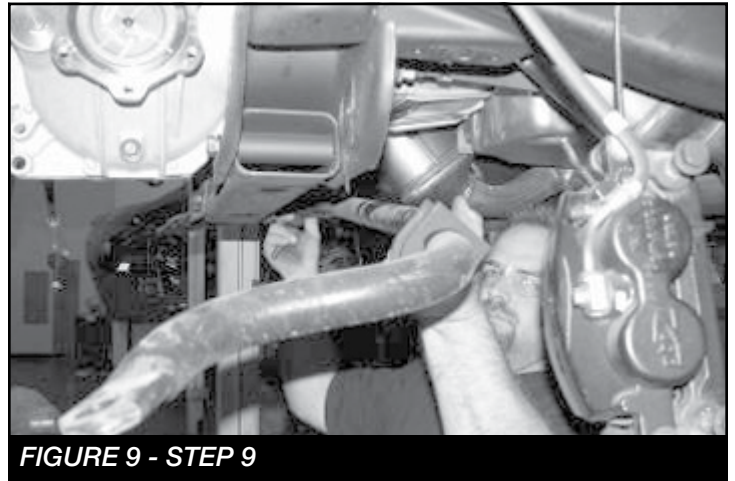
7. Disconnect and remove CV axles from differential housing and the sway bar endlinks and save. Discarding **ONLY** the CV axle hardware. **SEE FIGURE 7**



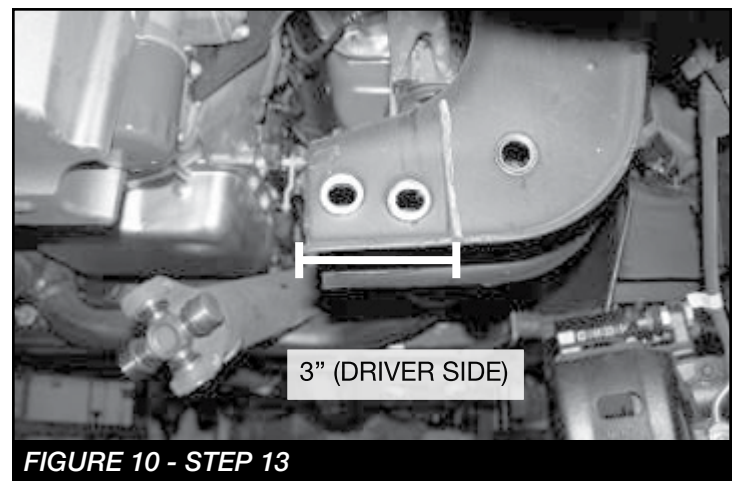
8. Remove the lower control arms from the frame and retain with the hardware for reinstallation. **SEE FIGURE 8**



9. Locate, remove, and save the sway bar, discard hardware. **SEE FIGURE 9**



10. Remove front factory differential skid plate and splash shield and discard.
11. Disconnect front driveshaft from differential housing and retain bolts and u joint clamps for reinstallation. Locate, remove, and discard the factory rear crossmember with hardware.
12. Disconnect the electrical connection including the two retaining clamps and the vacuum line from differential housing. Remove differential housing assembly from vehicle. Retain hardware for reinstallation.
13. Locate the rear driver lower control arm mount on the frame. Measure 3" from the inside edge of the mount toward the frame and mark with a paint pen. Use a sawzall and cut the mount from the frame. **SEE FIGURE 10**



14. Locate the rear passenger lower control arm mount on the frame. Measure 3 1/2" from the inside edge of the mount toward the frame and mark with a paint pen. Use a sawzall and cut the mount from the frame.

SEE FIGURE 11

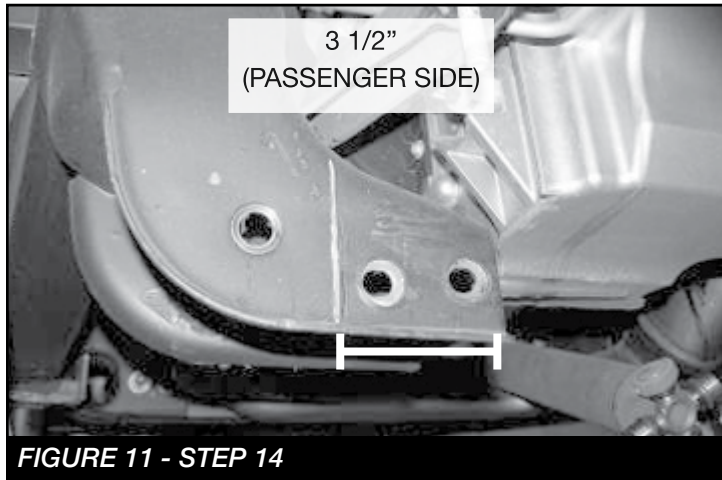


FIGURE 11 - STEP 14

15. Locate the factory front lower control arm pockets. Grind 1/4" section from both Corners of the pockets.

SEE FIGURES 12-13

DUE TO VARIANCES IN EACH TRUCK, ADDITIONAL GRINDING MAY BE REQUIRED FOR PROPER FITMENT OF THE CROSSMEMBERS. USE THESE MEASUREMENTS AS A STARTING POINT AND CLEARANCE THE FRAME POCKETS AS NEEDED FOR PROPER FITMENT OF THE CROSSMEMBERS

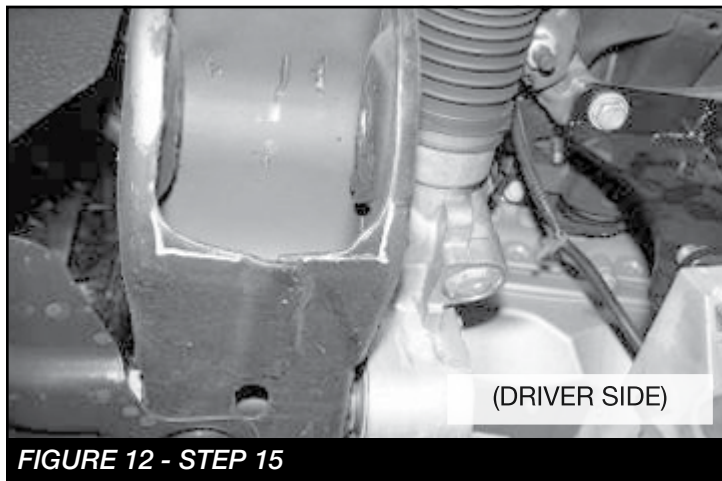


FIGURE 12 - STEP 15

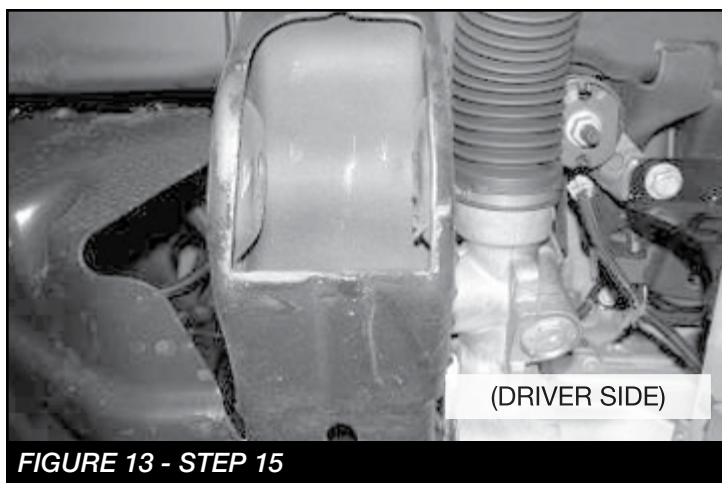


FIGURE 13 - STEP 15

16. Locate the front differential. The diff will need to be trimmed / cut in three places. The first is the 90 degree tab on the bottom front of the diff. Measure in 1 1/4" from the outer edge and cut with a sawzall as shown in photos. The second cut is the bottom rear gusset on the passenger side of the diff. Measure down 1/4" from the pinion side of the gusset and mark 1 1/2" long and 1/2" deep. Using a barrel sander, sand down the gusset as shown in photos below. The third cut is second gusset from the rear on the driver side of the diff. Mark the gusset 2 1/4" from the top and a 1/4" in. Using a barrel sander, sand down the gusset. **SEE FIGURES 14-19**

USE THESE MEASUREMENTS AS A STARTING POINT AND CLEARANCE THESE AREAS AS NEEDED FOR PROPER FITMENT OF THE DIFFERENTIAL

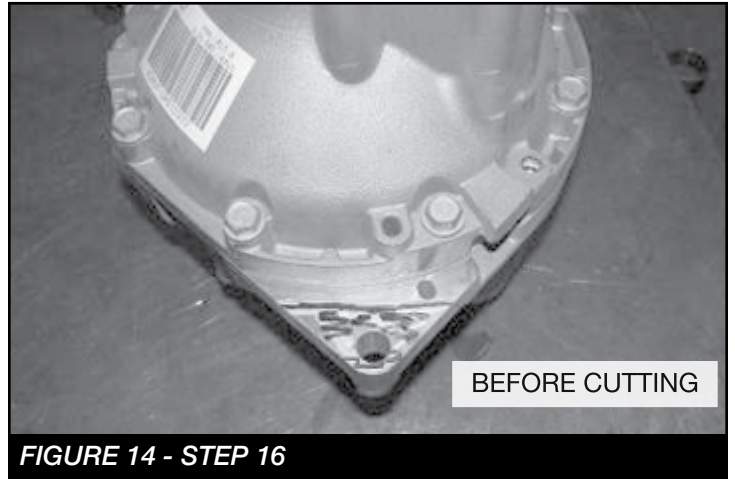


FIGURE 14 - STEP 16

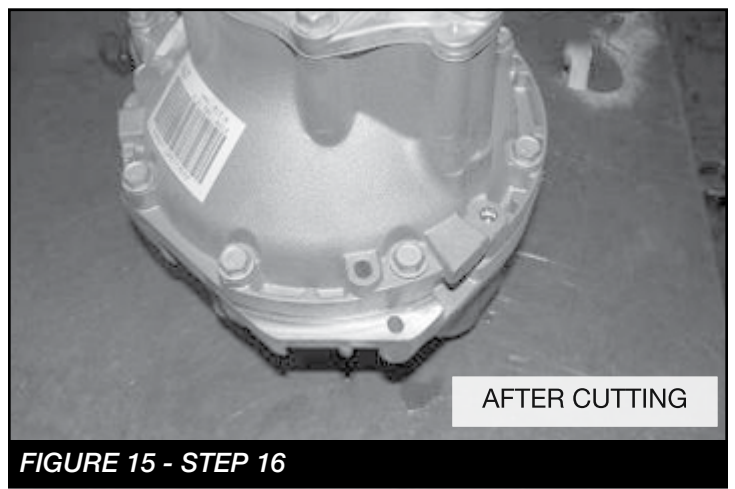


FIGURE 15 - STEP 16

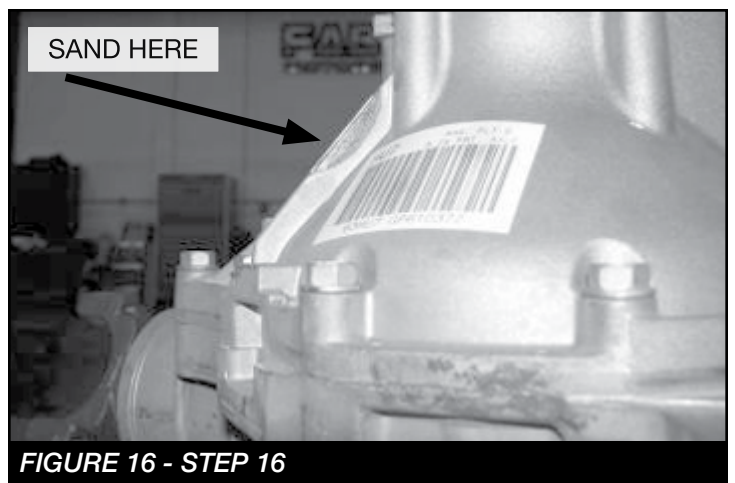


FIGURE 16 - STEP 16

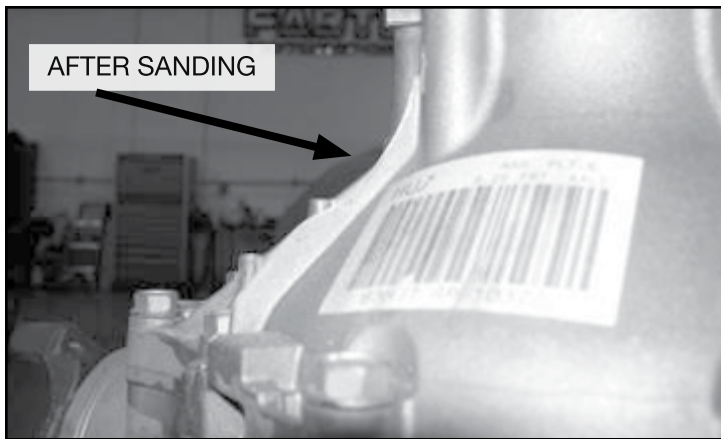


FIGURE 17 - STEP 16

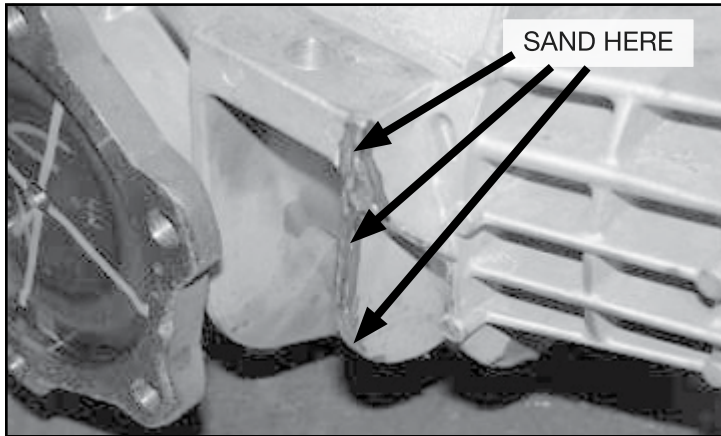


FIGURE 18 - STEP 16

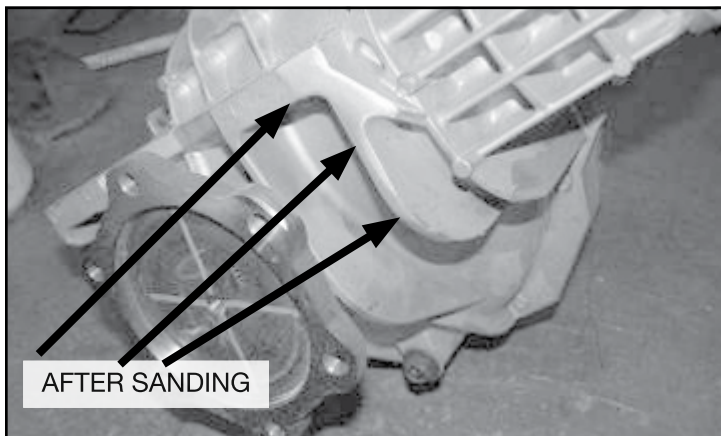


FIGURE 19 - STEP 16

17. Locate the driver upper differential mount. The locating pin on this mount needs to be cut off. Using a die grinder with a cutoff wheel, cut the pin flush with the bracket.
SEE FIGURES 20-21

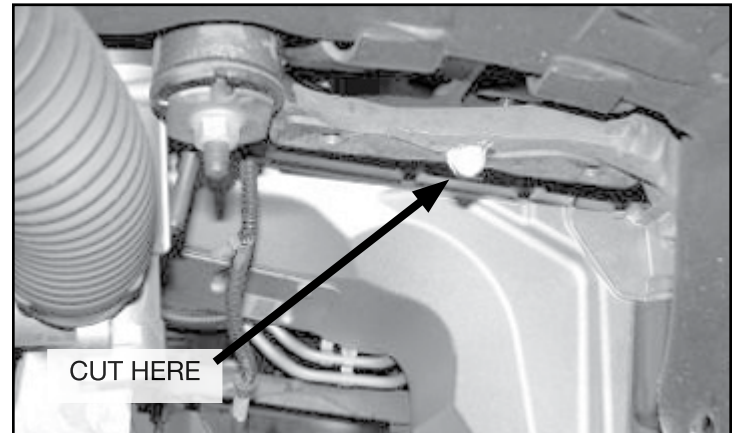


FIGURE 20 - STEP 17

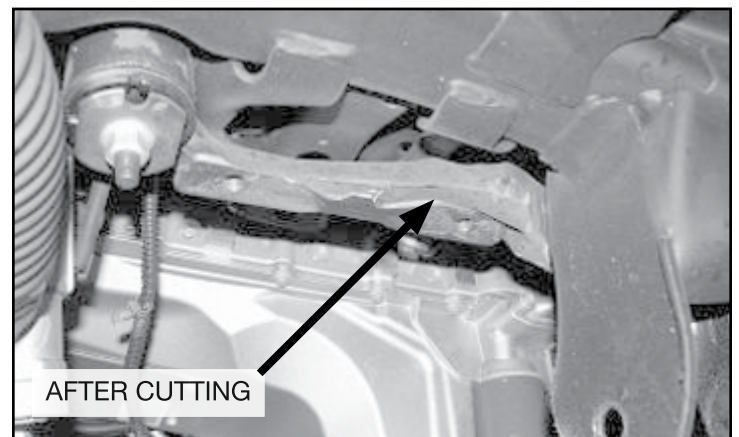


FIGURE 21 - STEP 17

18. Locate FT20347 (driver) & FT20633 (pass) Diff. brackets and the factory diff hardware. Install the brackets to the factory mounts with the taller part of the bracket to the front of the truck with the factory hardware. **NOTE: Use the provided 1/2-13 X 2" Carriage bolt on the passenger side diff bracket.** Torque to 127 ft-lbS. **SEE**

FIGURES 22-23

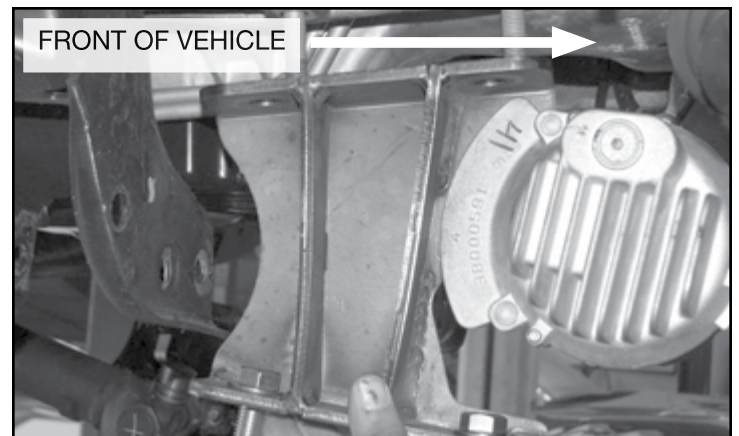


FIGURE 22 - STEP 18

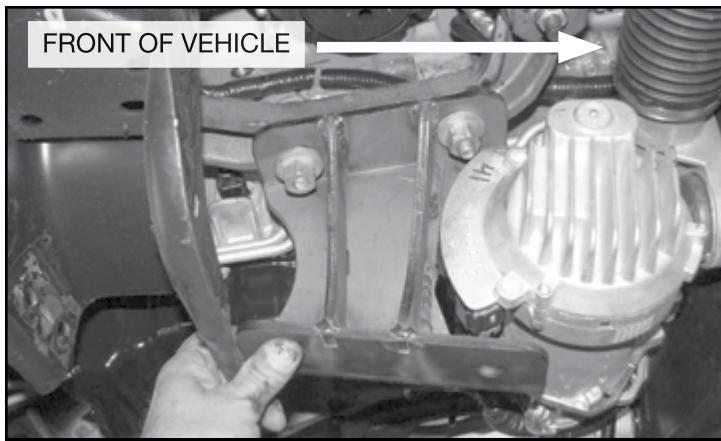


FIGURE 23 - STEP 18

19. Locate the supplied $\frac{1}{2}$ " x $1\frac{3}{4}$ " hardware and the front diff. Install the diff onto the new drop brackets using the $\frac{1}{2}$ " hardware. Torque the $\frac{1}{2}$ " hardware to 127 ft-lbs. Re-connect the electrical and vacuum connections back onto the diff. **(CHECK THE CLEARANCE OF THE DIFF TO THE FRAME IN SANDED AND CUT SPOTS ON THE DIFF. FOR ADEQUATE CLEARANCE TO THE FRAME AND CROSSMEMBER).** SEE FIGURE 24



FIGURE 24 - STEP 19

20. Locate and install FT20611BK rear crossmember into the factory lower control arm pockets using the stock hardware and leave loose at this time. **(CHECK THE CLEARANCE OF THE DIFF TO CROSSMEMBER WHERE IT WAS SANDED DOWN IN STEP #17 FOR ADEQUATE CLEARANCE TO THE FRAME AND CROSSMEMBER).** SEE FIGURE 25

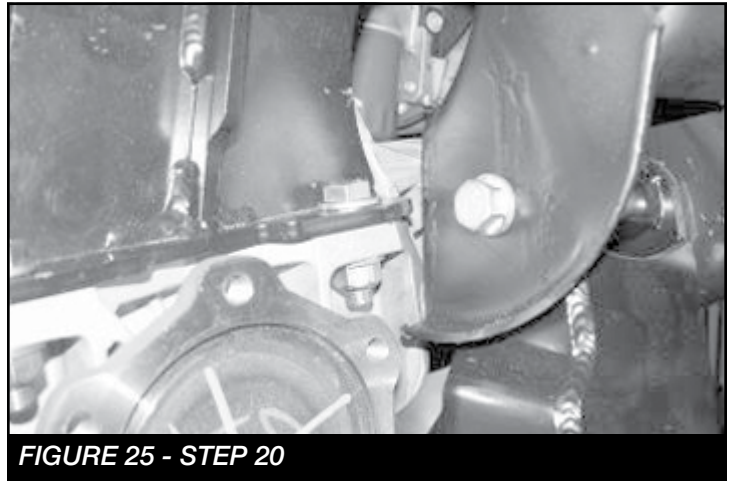


FIGURE 25 - STEP 20

21. Locate and install FT20610BK front crossmember into the factory lower control arm pockets using the stock hardware. Leave loose. **(CHECK THE CLEARANCE OF THE DIFF TO CROSSMEMBER WHERE IT WAS SANDED DOWN IN STEP #18 FOR ADEQUATE CLEARANCE TO THE FRAME AND CROSSMEMBER).** SEE FIGURES 26-27

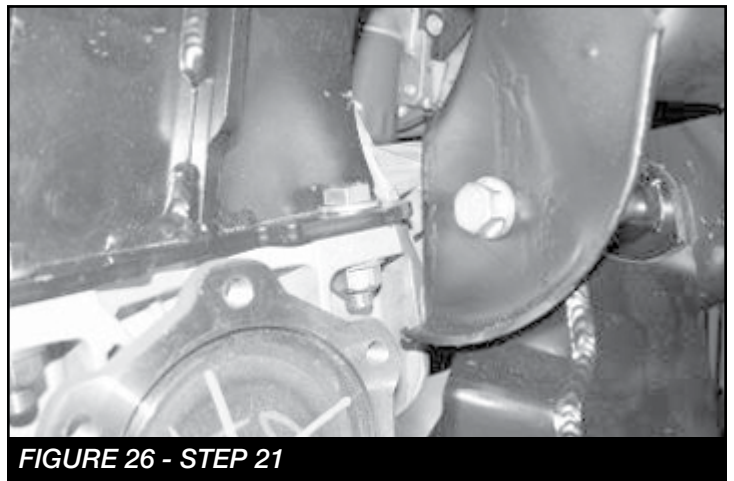


FIGURE 26 - STEP 21

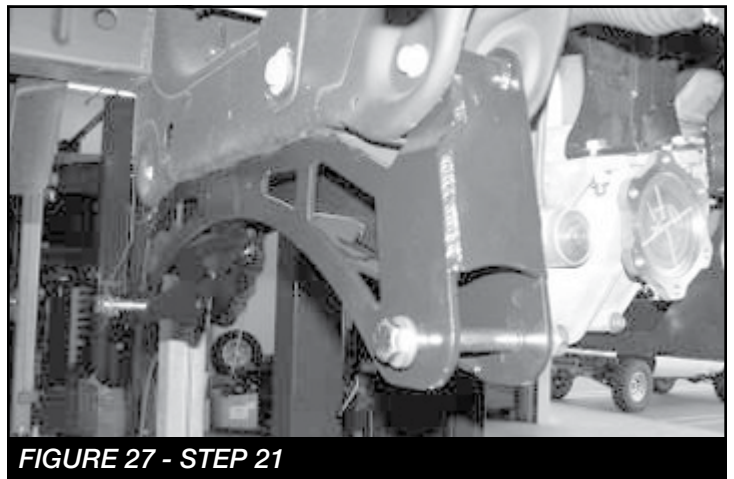


FIGURE 27 - STEP 21

22. Install FT90085 bushing kit into FT20365 diff bracket.
23. Remove the 3 factory diff housing bolts.
24. Install diff bracket using the factory bolts and the 1/2-13 x 4-1/2" bolt, nut, and washers. Torque 1/2" hardware to 127 ft-lbs and factory hardware to 58 ft-lbs **SEE FIGURE 28**

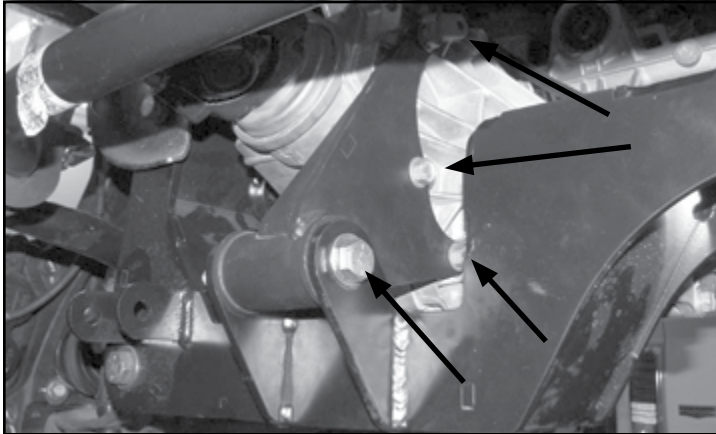


FIGURE 28 - STEP 24

25. Locate FT20284 Crossmember Support Tubes. Install the lower control arms into the new crossmembers using the 5/8" x 5" hardware in the front pocket. Position the control arms into the crossmember and insert only the front 5/8" bolt just so that it is through the arm. Position the Support tube between the crossmembers and rotate them up to the locating tabs on the crossmember. Install 5/8" x 5 3/4" hardware in the rear pocket and the front bolt with hardware. Leave loose. **SEE FIGURE 29**

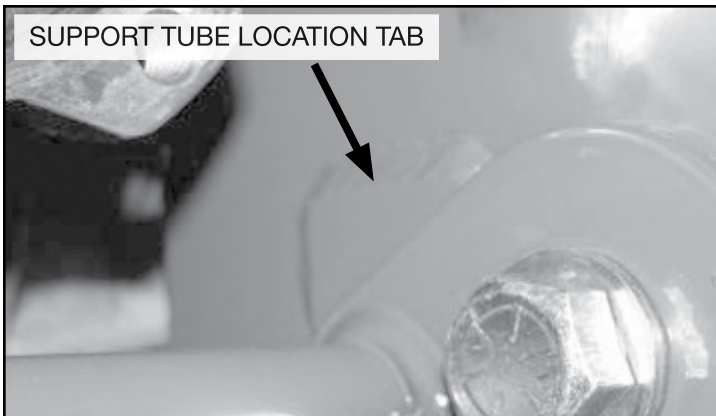


FIGURE 29 - STEP 25

26. Locate FT20304 Skid Plate and the supplied 1/2" x 1-1/4" hardware and attach the rear of the skid plate to the bottom of the rear crossmember. Use the supplied 7/16" x 1 1/4" hardware and attach the front of the skid plate to the front crossmember (**MAKE SURE THAT THE DIFF IS CLEARANCED ENOUGH TO CLEAR THE SKID PLATE**). **SEE FIGURE 30**

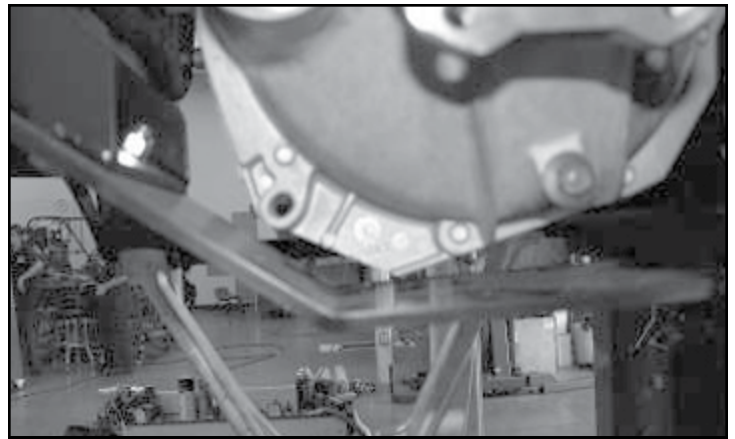


FIGURE 30 - STEP 26

27. Torque the crossmember frame pocket bolts to 125 ft-lbs., the lower control arm bolts to 254 ft-lbs. the 1/2" skid plate hardware to 127 ft-lbs., and the 7/16" to 83 ft-lbs.
28. Locate the factory coilovers. Remove the nut clips from the cross-shaft and discard. Using a press, press out the cross-shaft and the bushing from the bottom of the coilover and discard. **SEE FIGURES 31-33**



FIGURE 31 - STEP 28

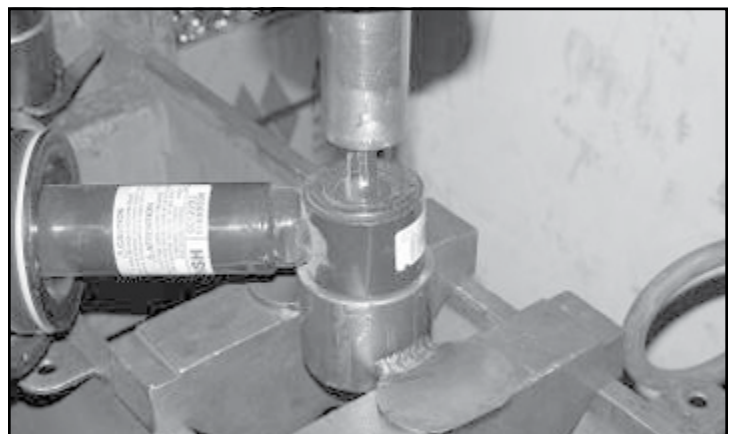


FIGURE 32 - STEP 28



FIGURE 33 - STEP 28

29. Locate Box 3 FTS21042BK which has FT20339 Shock Mount to Arm, FT20323 Shock Extensions, FT20568 Shock Brackets, FT20342 or FT20351 Aluminum Bushings (Due to vehicle Variances), Hardware Kit FT20295, FT1036 Bushings, and FT148 Sleeves. Using a press. Press the bushings and sleeves (**IMPORTANT:** Use the provided lube to prevent squeaking) into the shock extension. Insert the Aluminum Bushings into the bottom of the factory shock. **SEE FIGURE 34-36**



FIGURE 34 - STEP 29



FIGURE 35 - STEP 29



FIGURE 36 - STEP 29

30. Place the Shock Brackets around the bottom of the shock and align with the aluminum sleeves. Position the shock extension over the brackets and also align with the aluminum sleeves. Locate the supplied $\frac{1}{2}$ " x 4" bolts and hardware and install through the aluminum bushing and the shock mount. Leave loose. Locate the $\frac{5}{16}$ " x $1\frac{1}{2}$ " bolts and hardware and install into the shock brackets. Tighten the $\frac{5}{16}$ " hardware so the brackets are evenly spaced on the shock. Torque to 20 ft-lbs. Torque the $\frac{1}{2}$ " hardware to 127 ft-lbs. **SEE FIGURE 37-40**



FIGURE 37 - STEP 30

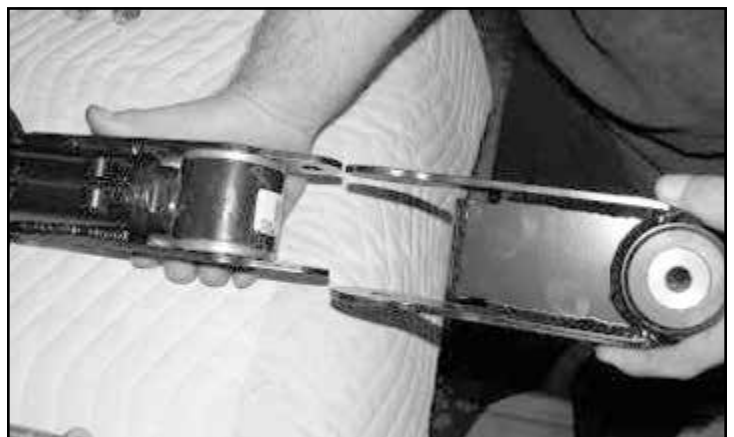


FIGURE 38 - STEP 30

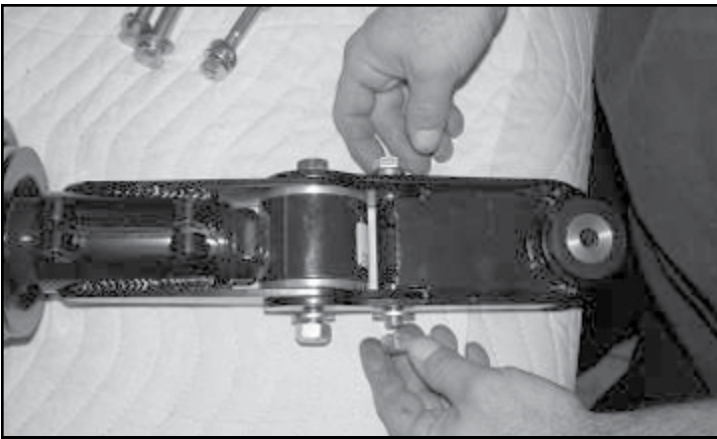


FIGURE 39 - STEP 30



FIGURE 40 - STEP 30

31. Locate the factory upper shock hardware. Install the shock into the factory shock bucket and leave loose. **SEE FIGURES 41-42**

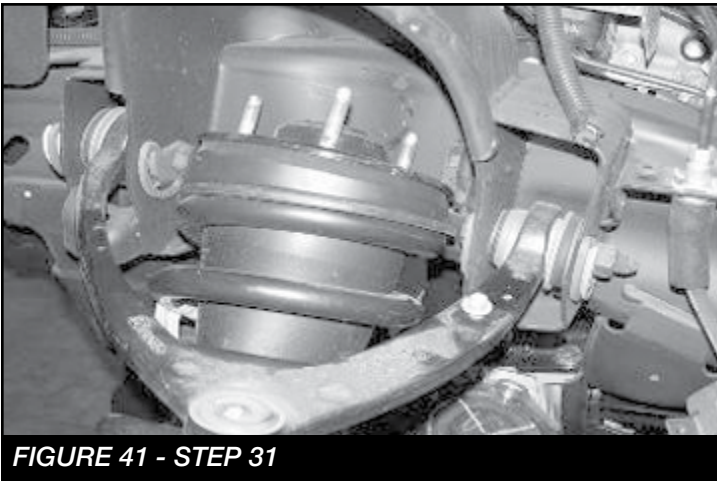


FIGURE 41 - STEP 31

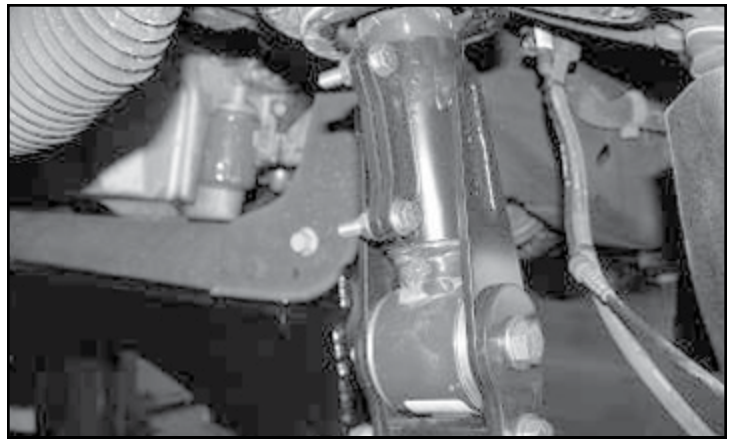


FIGURE 42 - STEP 31

32. Locate FT20339 Lower Shock Mount, FT20352 Lower Mount Shim, and the supplied 7/16" x 2 1/2" hardware. Position the mount onto the lower control arm so the flat side of the bracket will be flush with the stop on the arm. Position the shim (**ONLY USE THE SHIMS ON THE FORGED STEEL CONTROL ARMS**) in between the new mount and the control arm. Attach with the 7/16" hardware and torque to 50 ft-lbs. Rotate the lower control arm up and attach the strut to the new mount with the provided 1/2" x 3 3/4" hardware and torque to 127 ft-lbs. (it may be necessary to rotate the shock and extension to attach). Torque the top shock bolts to 83 ft-lbs. **SEE FIGURES 43-46**

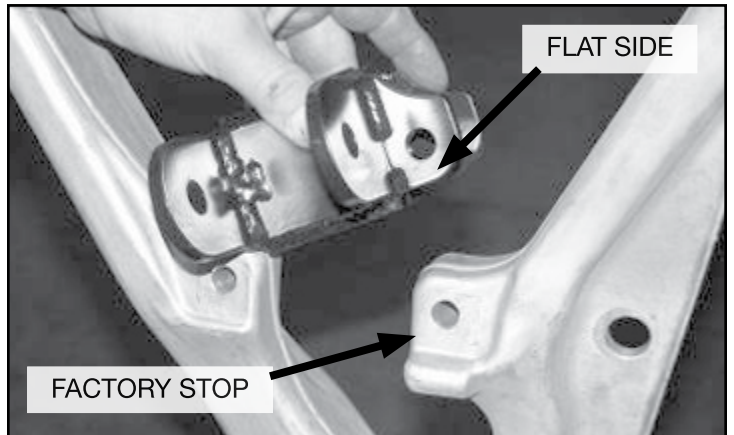


FIGURE 43 - STEP 32

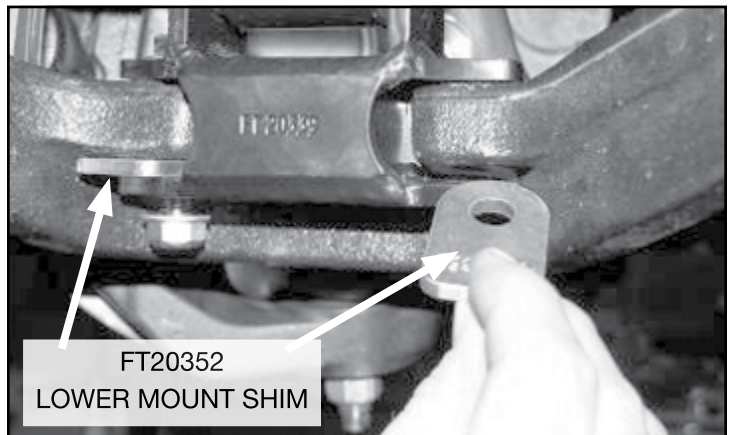


FIGURE 44 - STEP 32

LOOKING TOWARDS GROUND, TURN ONLY IN COUNTER
CLOCKWISE DIRECTION AND ROTATE AS NECESSARY

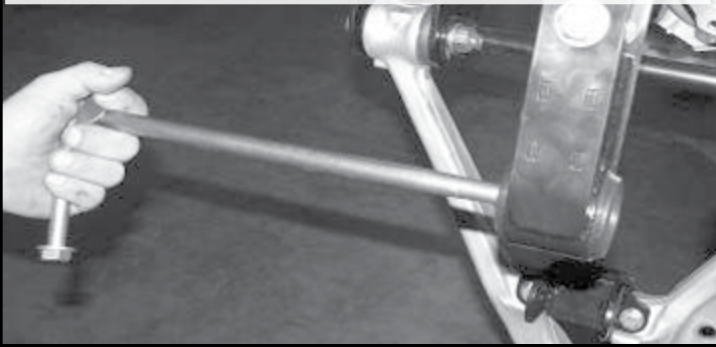


FIGURE 45 - STEP 32

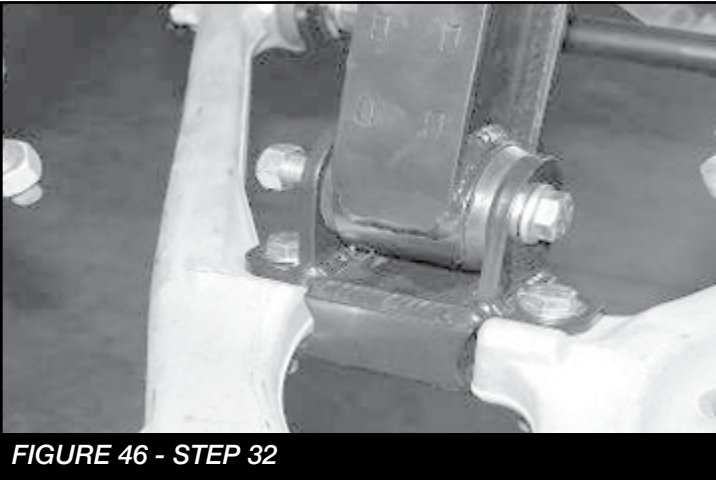


FIGURE 46 - STEP 32

33. If you have the factory aluminum knuckle locate FTS20612D and FTS20612P you need to install the FT20613 and FT20614 ball joint spacer under the nut when installing the knuckle. Attach the lower control arm to the knuckle using the stock hardware and torque to 70 ft-lbs. Attach the upper control arm to the new knuckle using the factory hardware and torque to 75 ft-lbs.
SEE FIGURE 47

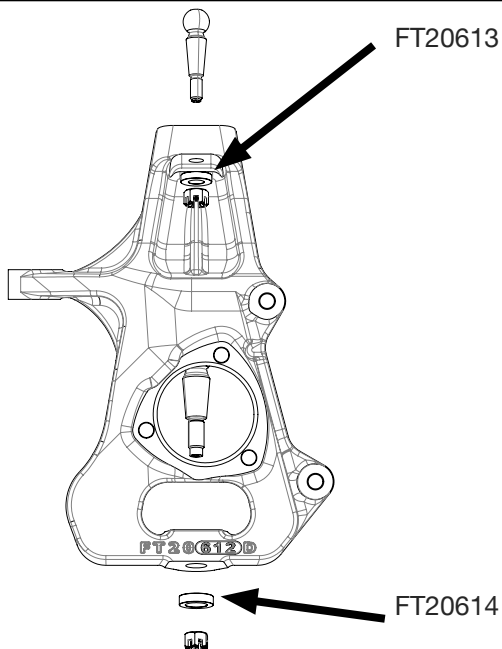


FIGURE 47 - STEP 33

34. Reinstall axle shaft through new knuckle and torque axle nut to 150 ft-lbs. and install bearing cover.
35. Locate and install the FT20289 CV spacers between the CV axle and the differential housing using 10mm x 50mm bolt and washer with the provided thread lock compound and torque to 58 ft-lbs. in a cross pattern.
SEE FIGURES 48-49

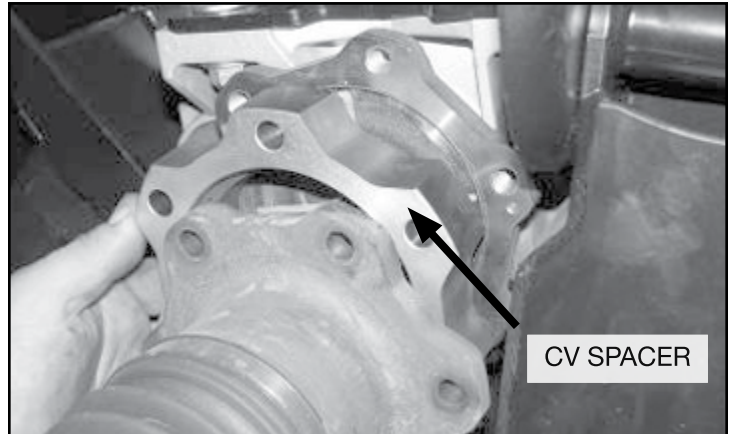


FIGURE 48 - STEP 35



FIGURE 49 - STEP 35

36. Reinstall the dust shield and hub bearing assembly using the stock hardware and torque flange bolts to 125 ft-lbs.
37. Trim the dust shield to clear the caliper.
SEE FIGURES 50-51

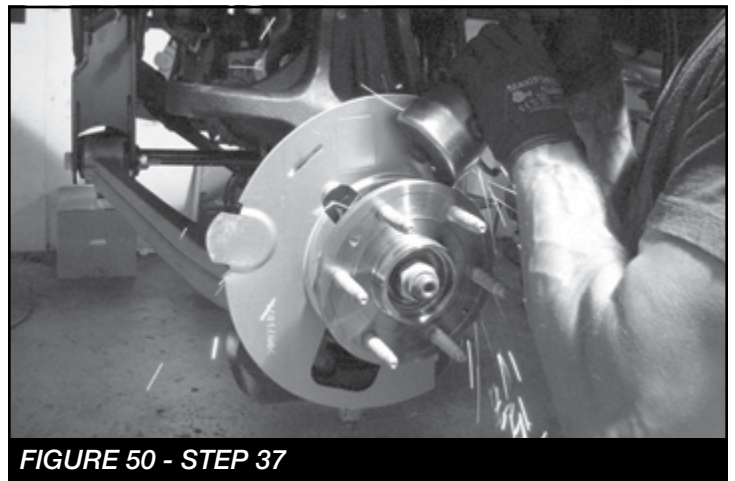


FIGURE 50 - STEP 37

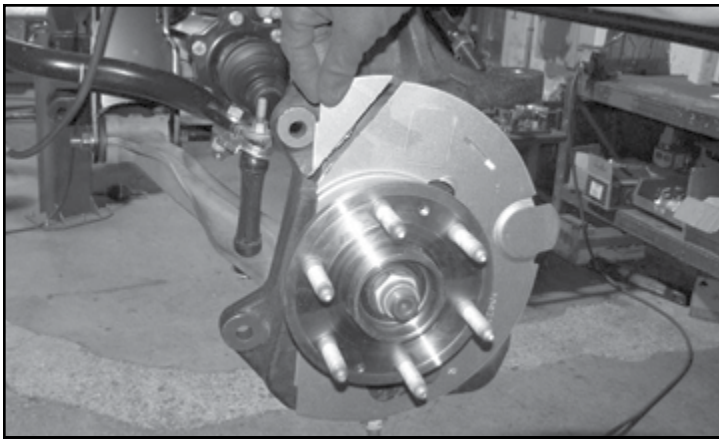


FIGURE 51 - STEP 37

38. Reinstall brake rotor and caliper. Torque caliper bolts to 100 ft-lbs.
39. Locate FT20277 outer tie rods. Loosen the jam nut and remove the factory outer tie rods and discard, leaving the factory jam nut on the inner tie rod. Install the new outer tie rod onto the inner tie rod until it makes contact with the jam nut. Attach new tie rod end to the knuckle with the supplied nut and torque to 40 ft-lbs. **(THIS IS JUST A STARTING POINT; A FINAL ALIGNMENT MUST BE PERFORMED UPON COMPLETION OF SUSPENSION SYSTEM).** SEE FIGURES 52-53

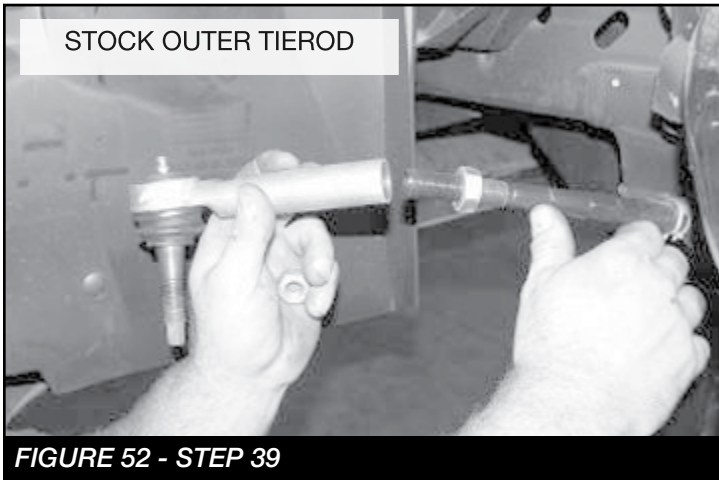


FIGURE 52 - STEP 39

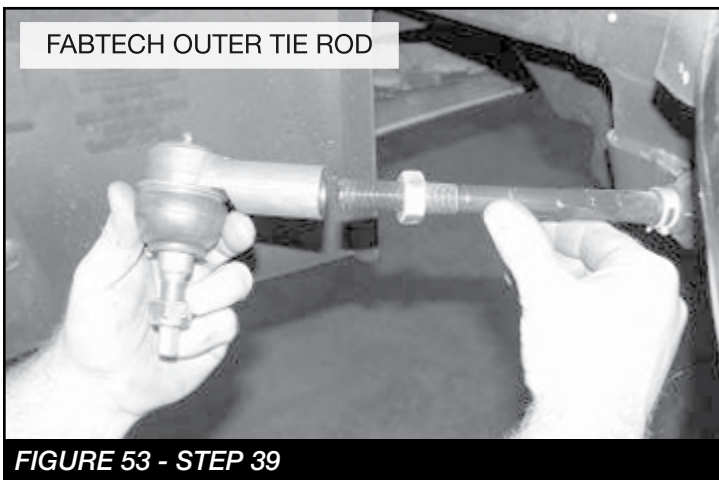


FIGURE 53 - STEP 39

40. Locate FT20312 (Drv), FT20318 (Pass) Sway Bar Frame Bracket, and the supplied 7/16" x 2 1/4" and 10mm x 30mm hardware. Position the frame bracket on the frame so that sway bar will be farther back from the suspension and attach with the 10mm hardware. Locate the factory sway bar with the factory mounts and attach to the new brackets with the 7/16" hardware and torque to 83 ft-lbs. and the 10mm hardware to 58 ft-lbs. **SEE FIGURE 54**

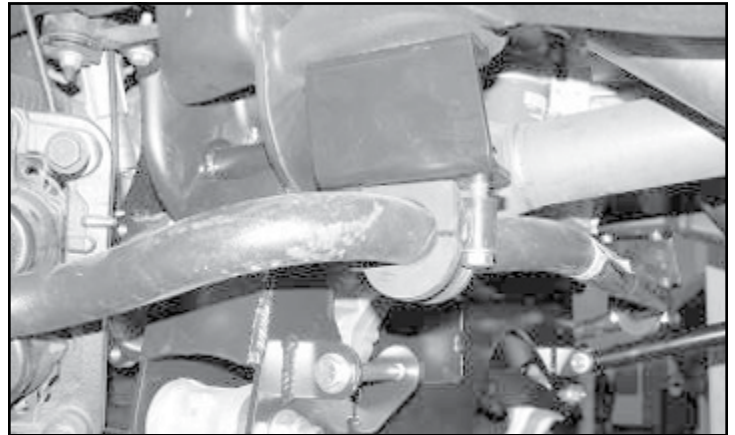


FIGURE 54 - STEP 40

41. Locate FT20602 Sway Bar Mounts and the supplied 18mm x 50mm hardware. Position the Sway Bar Mount so that it is on the bottom of the sway bar with the SHORTER side of the mount against the stop plate end of the mount. Attach with the 18mm hardware and torque to 300 ft-lbs. Locate the factory sway bar end links and attach to the new mount and the lower control arm. **(NOTE - SOME PICK UP TRUCKS MAY BE EQUIPPED WITH SUV STYLE SWAY BAR).** SEE FIGURE 55

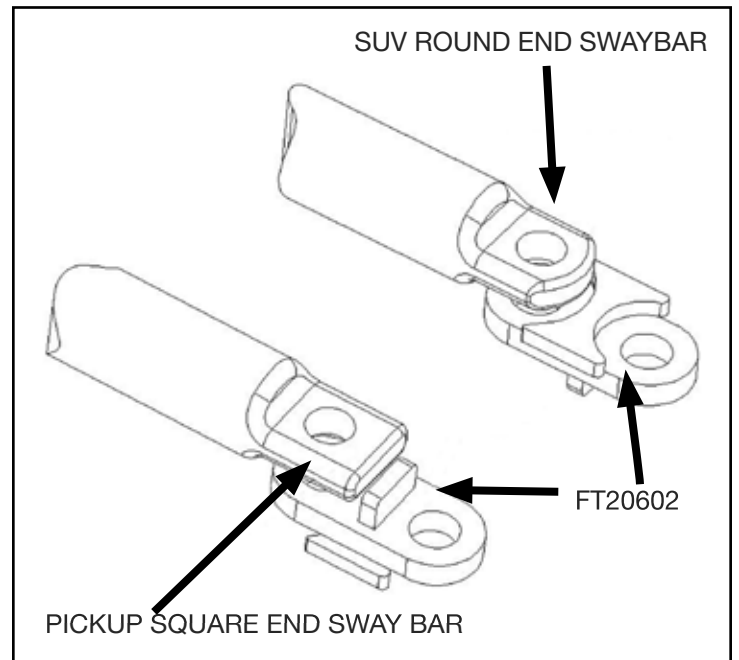
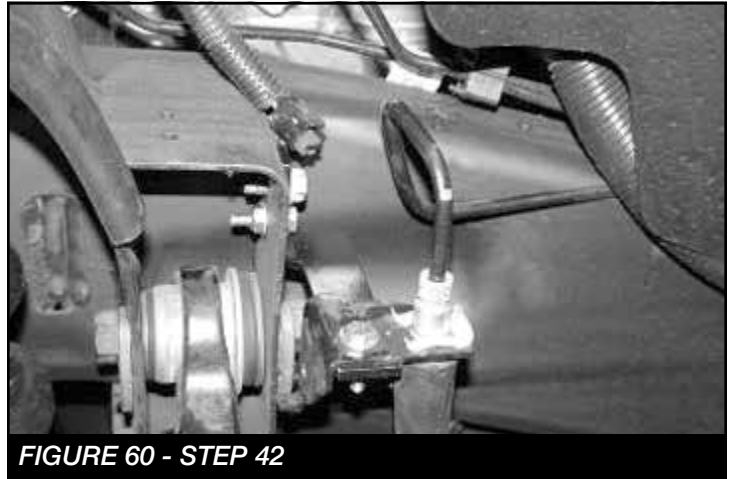
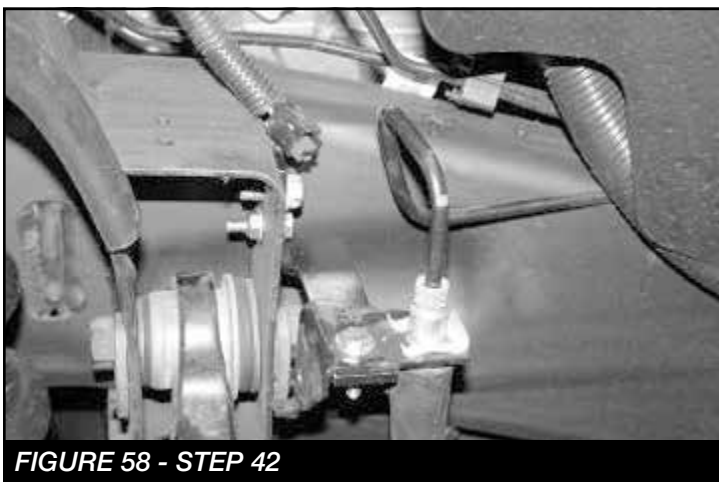
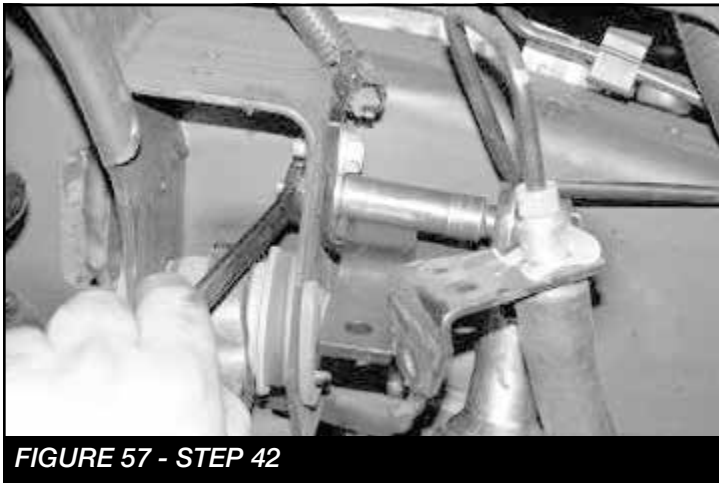
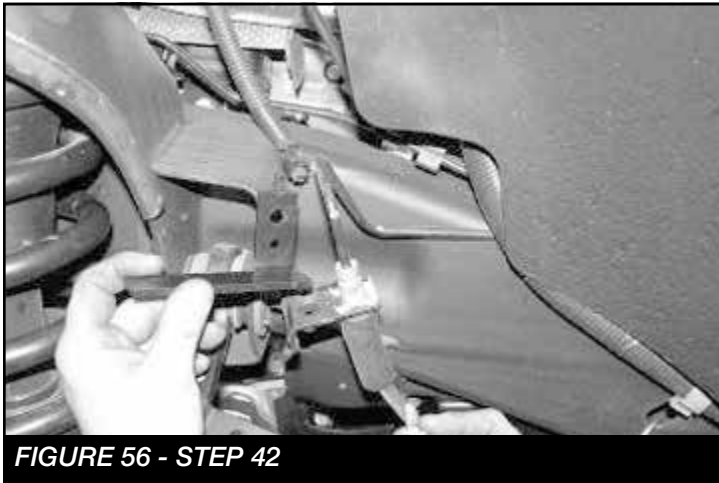


FIGURE 55 - STEP 41

42. Locate FT20313 (drv.) FT20314 (pass) Brake Line Bracket and $\frac{1}{4}$ " x $\frac{3}{4}$ " hardware. Position the new bracket into the factory brake line bracket location and attach with the factory hardware and the $\frac{1}{4}$ " hardware. Attach the factory brake line bracket to the new Fabtech bracket. Carefully bend the hard brake line and attach with the supplied $\frac{1}{4}$ " hardware. Torque to 10 ft-lbs. **SEE FIGURES 56-60**



43. Re-route the brake hose and the ABS Line to the steering knuckle using the adel clamp to the back of the steering knuckle and attach with $\frac{1}{4}$ " x $\frac{3}{4}$ " bolt and washer. Torque to 10 ft-lbs. Route the ABS line next to the brake hose. Re-connect the ABS line to the harness in the wheel well. Using provided plastic zip ties, secure line to the hose and away from the tire and wheel. **SEE FIGURE 61**



44. Reattach the driveshaft to the differential yoke using the stock hardware and torque to 19 ft-lbs.

REAR SUSPENSION

45. Jack up the rear end of the vehicle and support the frame rails with jack stands. Supporting the rear differential, remove and discard the rear shocks, u bolts and blocks. Disconnect the brake line bracket at the differential and save the hardware. Remove the ABS line clip from the top of the frame and at the axle. Remove the e-brake cable bracket on the driver's side of the frame and save the hardware. Lower axle down slowly. Use care not to over extend the brake hose. **SEE FIGURE 62**

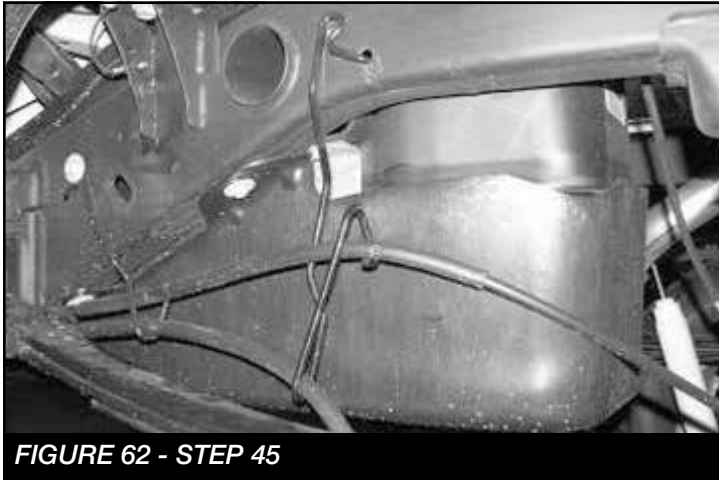


FIGURE 62 - STEP 45

46. Clamp the leaf spring at both ends of the spring and remove the center bolt.
47. Separate the overload spring from the pack.
48. Install the provided add a leaf with the new center bolt in a pyramid pattern smallest on the bottom graduating to the longest on top. Align by using the secondary factory pin installed in the spring. The factory flat overload leaf should remain on the bottom of the pack. Clamp the spring and tighten the center bolt as not to leave a gap between the springs. Cut the thread of the bolt smooth with the nut. The nut should be on the top of the leaf spring pack. **SEE FIGURE 63**

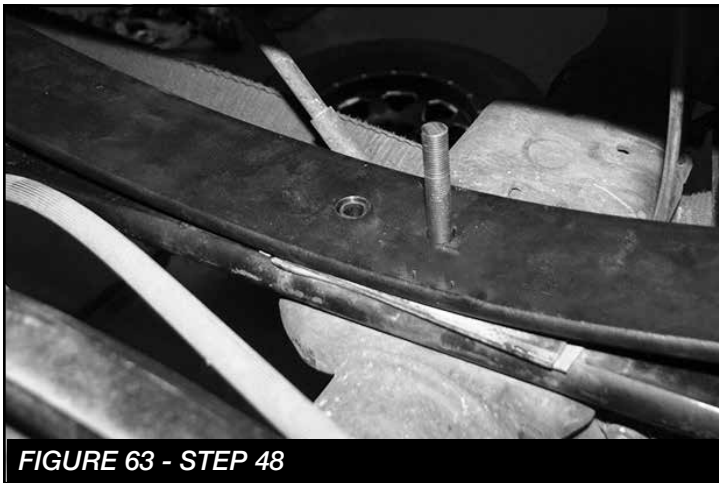


FIGURE 63 - STEP 48

49. Locate and install the rear lift blocks with the provided short center pin on the bottom of the block, to the axle. The short end of the block should face to the front of the vehicle. Using the provided U bolts, nuts and washers, align the axle, lift blocks, and springs. Torque the U-Bolts to 184 ft-lbs.
50. Remove the rear bump stops from the frame. Take the factory bolts and use a die grinder with a cut off wheel and cut a 1/2" from the bottom. Locate FT20025 bump stop spacers and install to the factory bumpstops using the trimmed factory bolt. Use a drill with a 7/16 bit and drill out the weld nut in the frame that originally held the bumpstops in place. Install the 10mm x 25mm bolt in from the inside of the frame and attach the new bumpstop spacer. Torque the bolts to 58 ft-lbs. **SEE FIGURES 64-67**

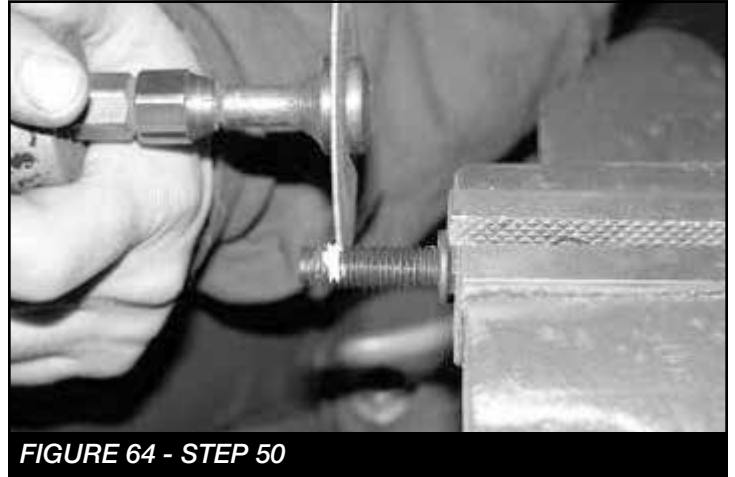


FIGURE 64 - STEP 50



FIGURE 65 - STEP 50



FIGURE 66 - STEP 50

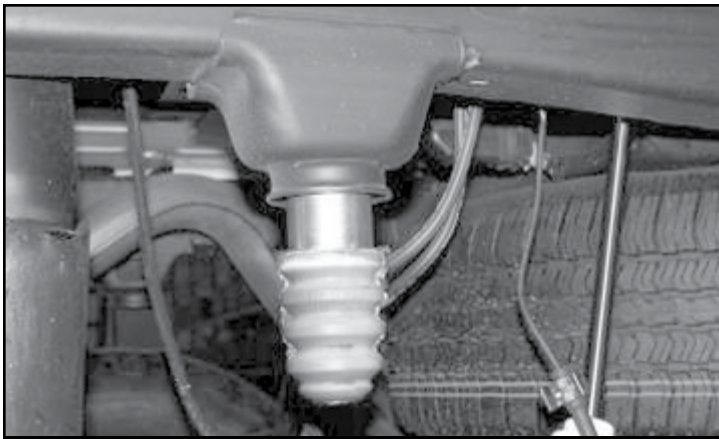


FIGURE 67 - STEP 50

51. Locate FT20349 Brake Line Bracket and the supplied 5/16" hardware. Attach the new bracket to the differential and attach the brake line to the new bracket. Torque to 29 ft-lbs.
52. Install new Fabtech shocks (not included with this kit) with the factory hardware and torque 100 ft-lbs.
53. Working from the driver's side, insert the previously removed upper ABS line clamp into the existing hole on the inside of the frame. Re-insert the lower ABS line clamp back into the stock location. Use two of the supplied zip ties and attach the ABS line to the U-Bolt. Keep the line taugth at the block and ensure that there is enough slack in the line for full travel of the rear axle.

SEE FIGURES 68-70

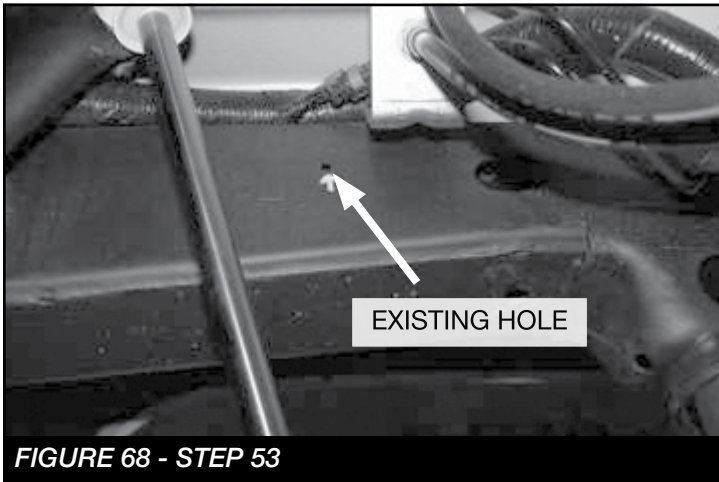


FIGURE 68 - STEP 53



FIGURE 69 - STEP 53

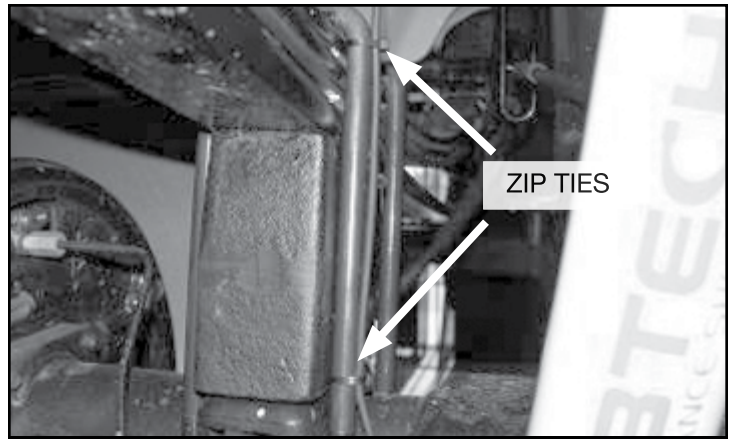


FIGURE 70 - STEP 53

54. Working from the passenger side, locate the original line clamp hole in the top of the frame and measure 2" down the inside of the frame and drill a 1/4". Insert the previously removed upper ABS line clamp into the new hole on the inside of the frame. Re-insert the lower ABS line clamp back into the stock location. Use two of the supplied zip ties and attach the ABS line to the U-Bolt. Keep the line taugth at the block and ensure that there is enough slack in the line for full travel of the rear axle.

SEE FIGURES 71-74

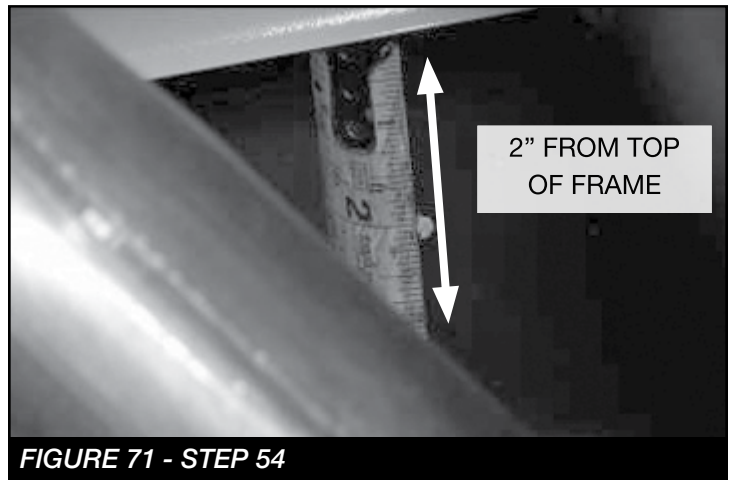


FIGURE 71 - STEP 54

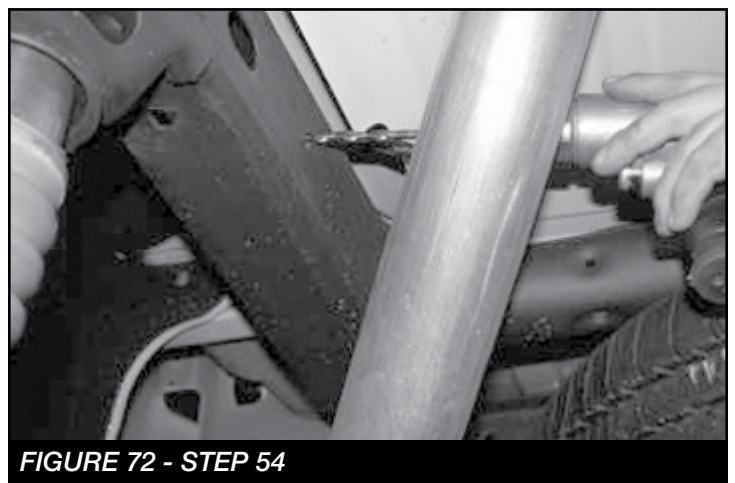


FIGURE 72 - STEP 54



FIGURE 73 - STEP 54

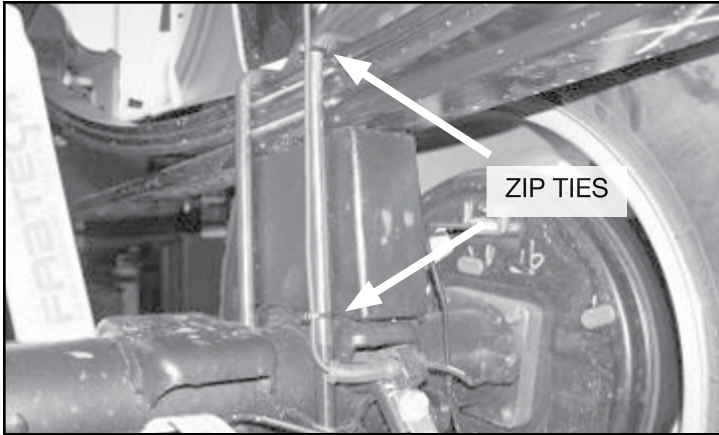


FIGURE 74 - STEP 54

55. Remove the driver's side E-brake cable from the previously removed bracket. Position the passenger side cable into the bottom position of the bracket where the driver's side was originally. Re-install the bracket back into the factory location with the factory hardware.

SEE FIGURE 75

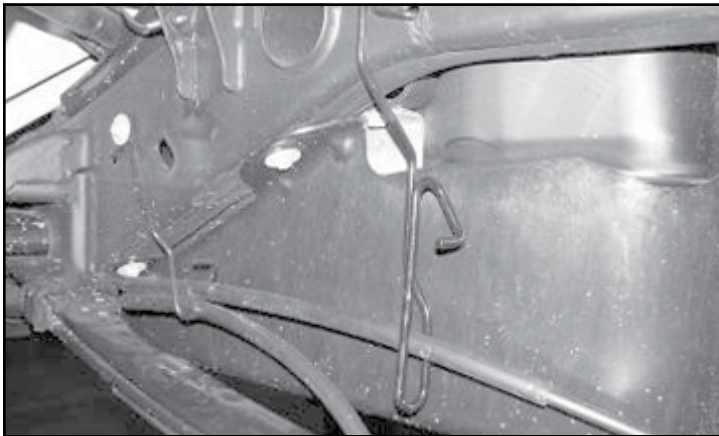


FIGURE 75 - STEP 55

56. Install tires and wheels and torque lug nuts to wheel manufacturer's specifications. Turn front tires left to right and check for appropriate tire clearance. **Note - Some oversized tires may require trimming of the front bumper & valance.**
57. Check front end alignment and set to factory specifications. Readjust headlights.

58. Recheck all bolts for proper torque.
59. Recheck brake hoses, ABS wires and suspension parts for proper tire clearance while turning tires fully left to right.
60. Check the fluid in the front and rear differential and fill if needed with factory specification differential oil. **Note - some differentials may expel fluid after filling and driving. This can be normal in resetting the fluid level with the new position of the differential/s.**
61. Install Driver Warning Decal. Complete product registration card and mail to Fabtech in order to receive future safety and technical bulletins on this suspension.
62. Have vehicle properly aligned to factory specs.

Vehicles that will receive oversized tires should check ball joints, uniballs and all steering components every 2500-5000 miles for wear and replace as required.

RE-TORQUE ALL NUTS, BOLTS AND LUGS AFTER 50 MILES AND PERIODICALLY THEREAFTER.