

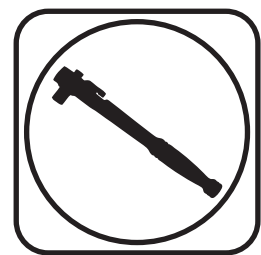


Part # 11387199

1999-2006 Silverado Rear Bolt-On 4-Link Suspension System



Recommended Tools



1999-2006 Silverado Rear Suspension Installation Instructions

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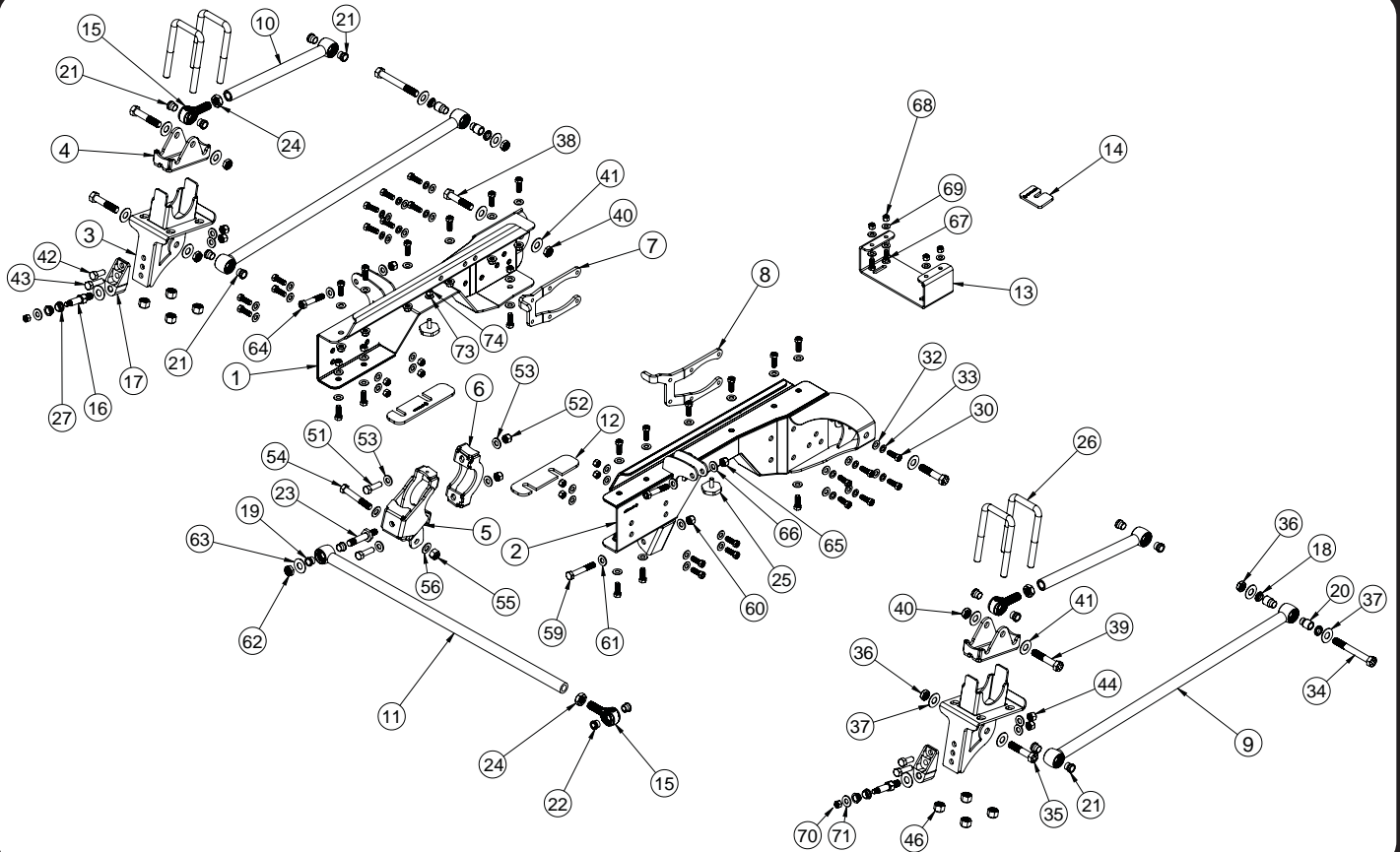


Major ComponentsIn the box

Item #	Part #	Description	QTY
1	90003234	Driver C-Notch	1
2	90003235	Passenger C-Notch	1
3	90003236	Lower Axle Bracket	2
4	90001411	Upper Axle Mount	2
5	90003237	Panhard Axle Mount	1
6	90003238	Panhard Mount Clamp	1
7	90002804	C-Notch Nut Plate - Driver	1
8	90002805	C-Notch Nut Plate - Passenger	1
9	90001038	Lower Bars - 33.250" center to center	2
10	90003239	Upper Bars - 16.125" center to center	2
11	90003247	Panhard Bar - 35.00" center to center	1
12	90000311	C-Notch Spacer Plate - 1999 & 2000 Trucks	2
13	90000209	Carrier Bearing Spacer - used on carrier bearing equipped trucks	1
14	90000310	Transmission Spacer	1
15	90001318	RH R-Joint Threaded Housing	3
16	70002825	5/8" Shock Stud	2
17	90001624	Aluminum Lower Shock Mount	2
18	90002883	Lower 4 Link Bar Front T-Bushing	4
19	70013334	R-Joint Spacers - Panhard - .625" ID x .620" long	2
20	70013769	R-Joint Spacer - Lower Bars - Front - .625" ID x 1.240" Long	4
21	70013882	R-Joint Spacers - Upper Bars & Lower Rear - .625" ID x .740" long	12
22	70013949	R-Joint Spacers - Panhard Bar - .500" ID x .620" long	2
23	90000461	Panhard Stud	1
24	99752004	3/4"-16 Jam Nut - Installed on Upper Control Arm	3
25	70013322	Short Bumpstops	2
26	99626005	U-Bolt 5/8-18 3.13W x 6.06L, Square Shoulder	4
27	90002067	Lower Shock Bearing Spacers	4
28	70013683	C-Notch Template - Driver - NOT SHOWN	1
29	70013682	C-Notch Template - Passenger - NOT SHOWN	1
R-Joint Components - (Installed in bar ends)			
	70013279	Retaining Ring	7
	70013280	Wavo Wave Spring	7
	70013275	R-Joint Center Ball	7
	70013276	R-Joint Composite Center Ball Cage	7



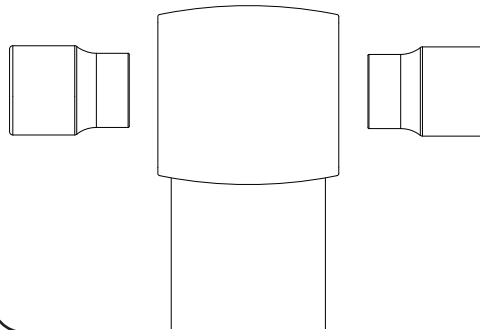
Major ComponentsIn the box



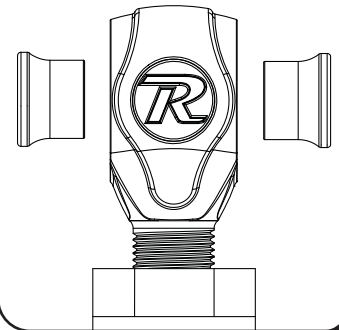
R-JOINT SPACER INSTALLATION

Install the Spacers by inserting the SMALL side of the SPACER into the Center Pivot Ball. Push them in until they bottom out and stop.

LOWER FRONT R-JOINT



ALL OTHER R-JOINTS



New R-Joints will be quite stiff (75-90 in/lbs breakaway torque) until they "break in" after a few miles of use. After the break in period they will move much more freely. Because the composite bearing race contains self lubricating ingredients, no additional lubrication is needed or desired. Any additional lubrication will only serve to attract more dirt and debris to the R-Joint and actually shorten its life.



Hardware ListIn the box (Kit# 99010160)

The Hardware Kit contains bags to help aid in selecting the correct hardware for the component being installed. The hardware list shows how the hardware is bagged.

Item #	QTY	Part Number	Description	Item #	QTY	Part Number	Description
"C" NOTCH MOUNTING				PANHARD AXLE BRACKET			
30	34	99431021	7/16" x 1 1/4" USS Bolt	51	2	99501046	1/2-13 X 1 3/4 Hex Bolt
30	4	99431032	7/16" x 1 1/4" USS BHCS	52	2	99502009	1/2-13 Nylok Nut
31	26	99432010	7/16" USS Nylok Nut	53	4	99503001	1/2 Flat Washer
32	64	99433005	7/16" SAE Flat Washer	54	1	99561002	9/16-18 X 3 1/2 Hex Bolt
33	16	99433003	7/16" Split Lock Washer	55	1	99562001	9/16-18 Nylok Nut
LOWER 4LINK BARS				56	2	99566003	9/16 Flat Washer
34	2	99621007	5/8" x 5" SAE GR8 Bolt	PANHARD STUD			
35	2	99621004	5/8" x 3" SAE Gr. 8 Bolt	57	1	99562001	9/16-18 Nylok Nut
36	4	99622006	5/8" SAE Nylok Jam Nut	58	1	99566003	9/16 Flat Washer
37	8	99623001	5/8" SAE Flat Washer	PANHARD BAR MOUNTING			
UPPER 4LINK BARS				59	1	99501025	1/2-13 X 3 1/4 Hex Bolt
38	2	99621004	5/8" x 3" SAE Bolt	60	1	99502009	1/2-13 Nylok Nut
39	2	99621018	5/8" x 3 1/4" SAE Bolt	61	2	99503001	1/2 Flat Washer
40	4	99622006	5/8" SAE Nylok Jam Nut	62	1	99622006	5/8-18 Thin Nylok Nut
41	8	99623001	5/8" SAE Flat Washer	63	1	99623001	5/8 Flat Washer
LOWER SHOCK MOUNT				UPPER SHOCK MOUNTING			
42	2	99501019	1/2"-13 x 1 1/4" Hex Bolt	64	2	99501064	1/2" x 2 3/4" USS Bolt
43	2	99501046	1/2"-13 x 1 3/4" Hex Bolt	65	2	99502009	1/2" USS Nylok Nut
44	4	99502001	1/2"-13 Nylok Nut	66	4	99503012	1/2" SAE Flat Washer
45	4	99503001	1/2" SAE Flat Washer	CARRIER BEARING MOUNT			
AXLE BRACKET TO AXLE				67	4	99371003	3/8"-16 X 1" Hex Bolt
46	8	99622013	5/8" SAE High Nut	68	4	99372002	3/8"-16 Nylok Nut
47	8	99623010	5/8" SAE Flat Washer	69	8	99373003	3/8" SAE Flat Washer
BRAKE JUNCTION BLOCK				SHOCK STUD			
48	1	99311013	5/16-24 X 1 Hex Bolt	70	2	99432002	7/16"-20 Nylok Nut
49	1	99313002	5/16 Flat Washer	71	2	99432002	7/16" SAE Flat Washer
50	1	99313003	5/16 Split Lock Washer	72	4	99623004	5/8" SAE Flat Washer
				BUMP STOPS			
				73	2	99373003	3/8" SAE Flat Washer
				74	2	99372002	3/8"-16 Nylok Nut

Disassembly

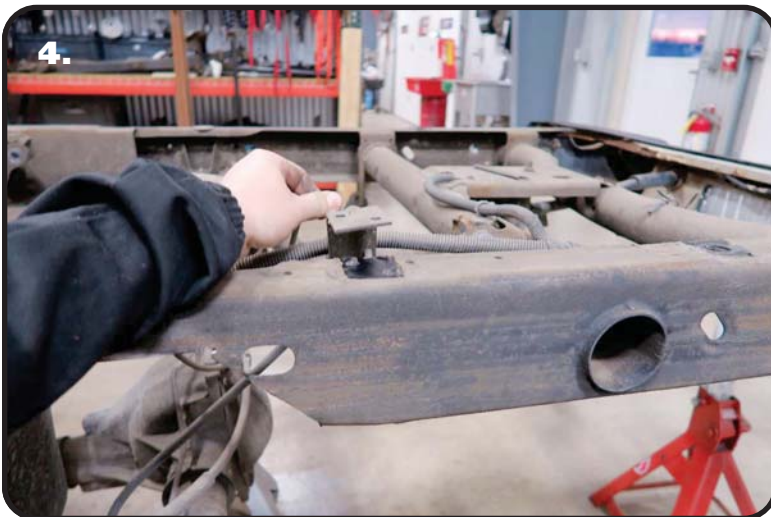
Congratulations on your purchase of the Ridetech Rear 4 Link System. This system has been designed to give your truck excellent handling along with a lifetime of enjoyment. Some of the key features of this system: C-notches to give your suspension the travel it needs at the lowered height, 4Link setup to replace the leaf spring and provide better control of the rear axle, and the biggest feature of all, it allows the use of Shockwaves or CoilOvers.



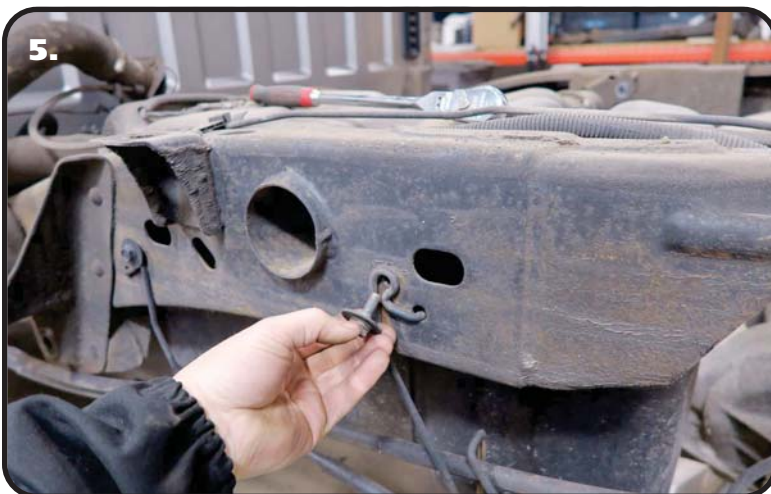
Disassembly

Note: This system is designed for use with the Ridetech Shockwaves or CoilOvers. **The factory shocks and springs or the factory sway bar will not fit this 4Link.**

1. Raise the vehicle to a safe and comfortable working height and support it by the frame. You will need to be able to move the rear differential up and down. Use a jack under the rear axle so it can be raised and lowered as needed during the install.
2. **Remove the bed, retaining the hardware for reassembly. This kit can NOT be installed with the bed on. The bed requires minor modifications before reinstalling it.**
3. Remove the leaf springs and shock absorbers. Refer to the factory service manual for proper disassembly procedures.



4. The brake line bracket will need to be removed from the top of the driver side frame rail. This will be reattached later.



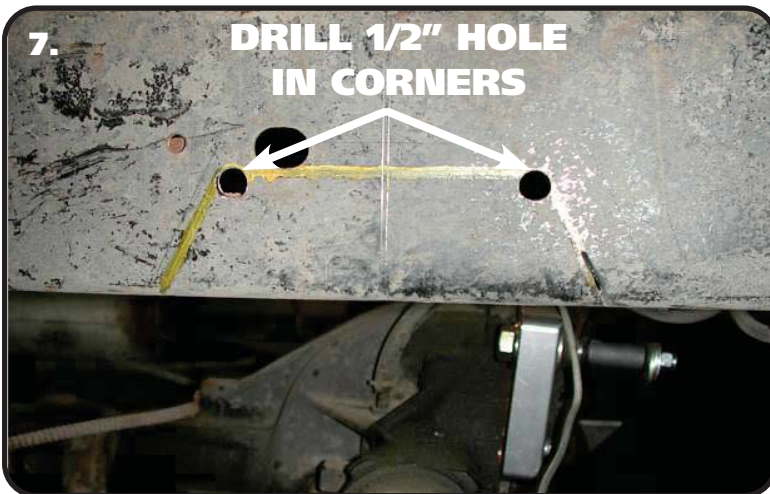
5. Unbolt the emergency brake cable bracket from the driver side frame rail. It is located between the axle and the front leaf spring hanger. Retain the hardware for reassembly.



"C" Notch Installation



6. To allow maximum drop on this truck, the frame must be notched. The template for the notch will locate off of the 2 large oval holes. Use the supplied "C" Notch template to mark out the frame for cutting. Before cutting out the frame, support the frame in front of and behind the "C" Notch area. We suggest doing one side at a time. The tall end of the template is located to the front of the truck.



7. Use the supplied Template to mark the cut lines on the frame, then drill out the two corners with a 1/2" drill bit. This will give the cut a round edge and eliminate the possibility for stress fractures. Then cut the notch with a saw-z-all, cutoff wheel, or plasma cutter. Grind all edges smooth. Check the inside of the frame for wires or lines before drilling or cutting.



99 ONLY!!!

8. We have come across some frames that have a protrusion stamped in the frame above the axle. This will need to be flattened out to get the c-notch fitting tightly. We did this by extending the horizontal cut forward to the end of the protrusion then cutting straight down to the bottom of the frame. After the frame is cut, use a hammer or vise grips to bend the protrusion flat. Refer to **Image 8**.



"C" Notch Installation



9. After cutting, slip the c-notch over the frame to check the fitment.



10. The front edge of the c-notch should be 4 1/2" from the oval hole in front of it. Trim the opening to move the c-notch forward or backward to achieve 4 1/2".



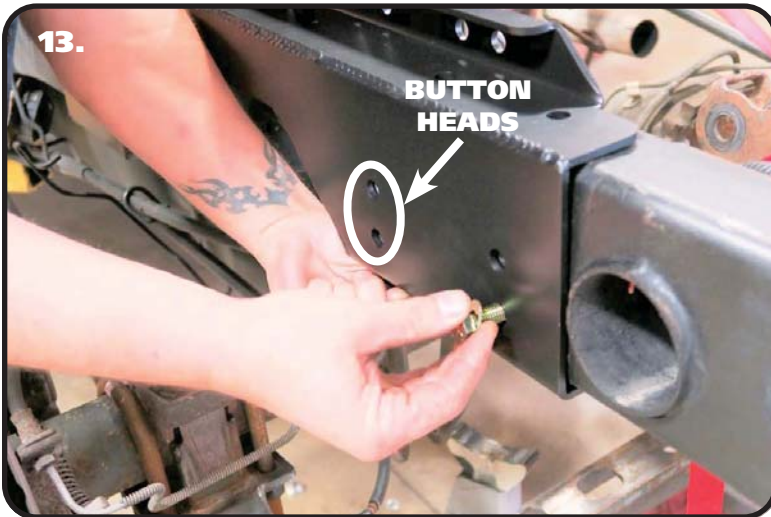
11. Use a 7/16" Drill bit to drill the holes in the side of the frame. DO NOT DRILL THE HOLES WHERE THE EMERGENCY BRAKE CABLE BRACKET IS BOLTED, OR THE TOP AND BOTTOM OF THE C-NOTCH. There are 10 holes in the side that need to be drilled.



"C" Notch Installation

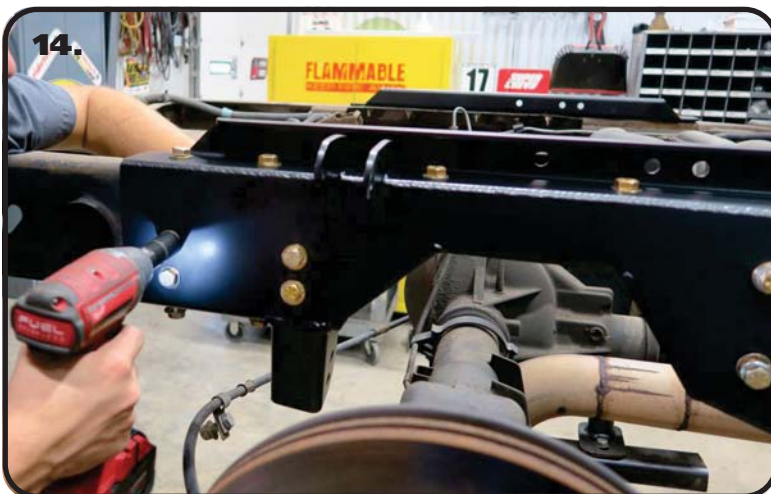


12. After drilling the holes in the side of the frame, remove the C-notch to insert the front nut plate. **Image 12** shows the Driver Nut Plate. The top tab is bent to the inside of the frame to allow it to be held in place. After inserting the nut plate, reinstall the C-notch. Install a 7/16" Lock Washer, & 7/16" Flat Washer on (6) 7/16" x 1 1/4" Bolts. Hold the nut plate in place and insert the bolts/washer through the c-notch and frame threading them into the nut plate. Repeat on the other side. **LEAVE THE HARDWARE LOOSE.**



13. Install a 7/16" lock washer, & 7/16" flat washer on (2) 7/16" x 1 1/4" Bolts & **(2) 7/16" x 1 1/4" BUTTON HEAD CAP SCREWS.** This hardware gets installed in the rear section of the c-notch. **THE 7/16" BUTTON HEADS NEED TO BE INSTALL IN THE 2 FRONT HOLES CIRCLED IN IMAGE 13.** The 2 regular 7/16" bolts will be installed in the rear holes. Install a 7/16" flat washer and 7/16" nylok nut on each bolt sticking through the frame. Repeat on the other side.

Repeat Steps 6-13 on the other side.



14. Tighten all of the c-notch side bolts. Torque to 50 ftlbs.



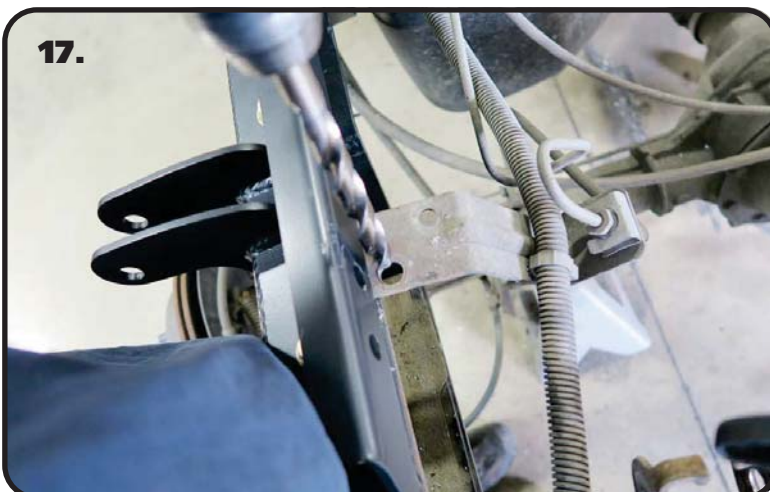
"C" Notch Installation



15. Reinstall the emergency brake cable bracket using the OEM hardware.



16. Use a 7/16" drill bit to drill the remaining holes in the top and bottom of the frame. Install a 7/16" Flat Washer on the remaining 7/16" x 1 1/4" Bolts. Insert bolt/washers in the drilled holes of the c-notch. Install a 7/16" Flat washer and 7/16" Nylok Nut on the threads sticking through the c-notch/frame. DO NOT TIGHTEN.



17. Use a 7/16" drill bit to drill out the rear hole of the OEM brake line bracket.



"C" Notch & Axle Mount Installation



18. Remove the nut and washer from the 2nd from rear top bolt of the driver side c-notch. Install the brake line bracket on the bolt and reinstall the nut and washer. If your truck is 2001 and newer, tighten the top and bottom c-notch hardware to 50 ftlbs then skip to step 20. If you have a 1999 - 2000, proceed to step 19.



1999-2000 ONLY

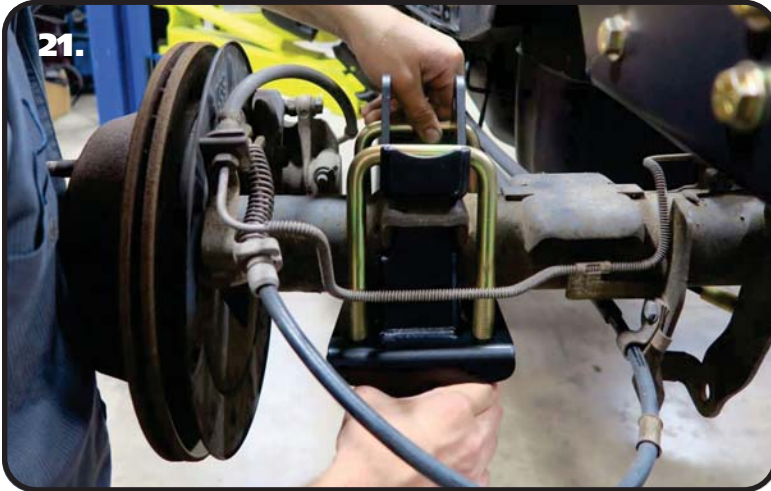
19. The 1999 & 2000 model year trucks have a slightly shorter frame rail height than the newer trucks. The kit includes (2) spacers to fill the gap that is on the bottom rear of the c-notch. Insert a spacer in the gap of the driver and passenger side c-notches. Tighten the top and bottom hardware to 50 ftlbs.



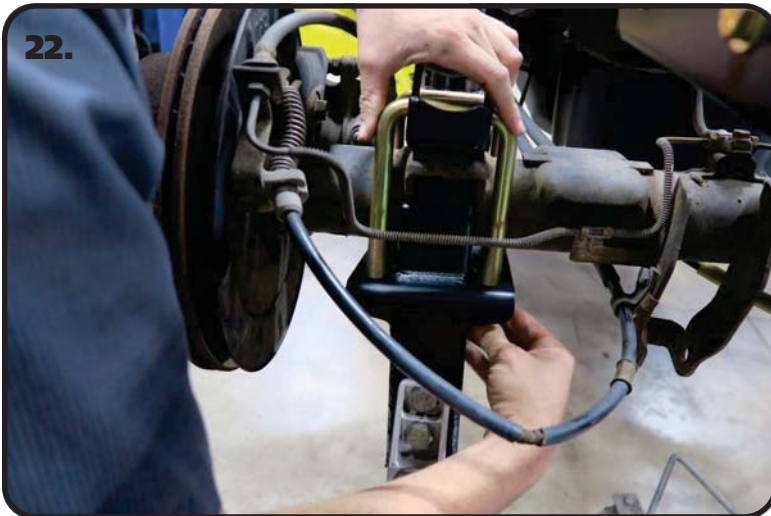
20. Sit the upper bar mount on the leaf spring pad of the axle. The locating pin needs to insert into the leaf spring locating hole of the leaf spring pad.



Axle Mount & Lower Shock Mount Installation



21. The axle mounts are the same for driver and passenger sides. Install a supplied 5/8" u-bolt in each side of the upper bar mount. The u-bolts will nest in the slots of the upper mount. Slide an axle mount on the U-bolts with the top tabs inserted into the leaf spring pad.



22. Hold the mount in place and install a 5/8" flat washer and 5/8" high nut on the threads of the u-bolts sticking through the axle mount. Tighten the nuts evenly in a criss-cross fashion making sure the tabs of the axle mount are touching the leaf spring pad evenly. Torque the nuts in a criss-cross fashion to 60 ftlbs. Repeat on the other side.



23. The lower shock mount attaches with (1) 1/2"-13 x 1 1/4" hex bolt, (1) 1/3"-13 x 1 3/4" hex bolt, & (2) 1/2" flat washer, & (2) 1/2"-13 nylok nuts. The lower mount gets attached to the 2nd and 3rd hole up from the bottom of the axle mount. When the shock mount is installed correctly, the bottom of the lower shock mount is 1/8" above the bottom of the axle mount. Insert the bolts through the aluminum shock mount with the 1 1/4" long bolt in the top hole, 1 3/4" in the bottom hole. Insert the bolts through the axle mount and install the flat washers & nylok nuts on the threads sticking through. Repeat on both sides and torque the bolts/nuts to 75 ftlbs. Install a 5/8" flat washer onto the 5/8"-18 threads of the shock stud. Apply Red Loctite to the 5/8" threads of the stud. Thread the shock stud into the threaded hole of the lower mount. Repeat on both sides and torque the shock stud to 65-75 ftlbs.



Installing Lower Bars



24. Insert (2) .625" ID x .740" long R-Joint spacers into the R-Joint of one end of each lower bar. The small diameter of the spacer goes into the R-joint. Insert the rear of the lower bar R-Joint into the lower axle bracket. Line the through hole of the R-Joint with the of holes of the axle bracket. Install a 5/8" flat washer on to a 5/8"-18 x 3" hex bolt, insert into the lined up holes. Install a 5/8" flat washer followed by a 5/8"-18 THIN nylok nut. Repeat on both sides and tighten the bolts/nuts enough to eliminate any gaps.



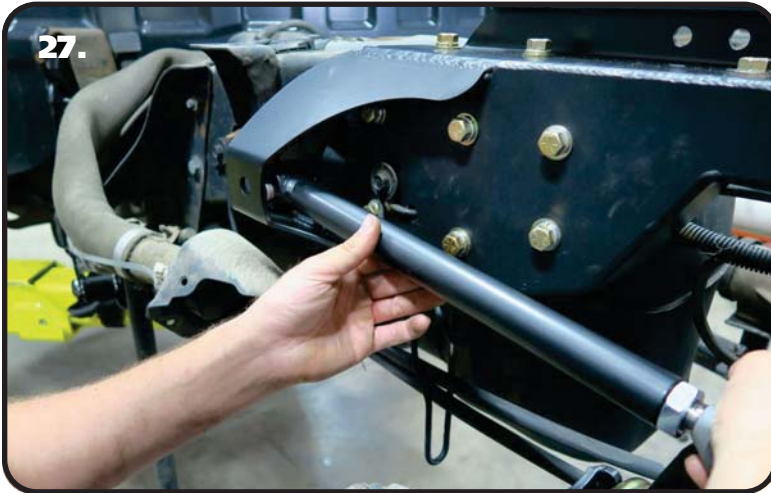
25. The kit includes (4) t-busings for the front leaf spring mount. Insert a t-bushing in each front leaf spring mounting hole with the small OD inserted into the hole. The large OD needs to be on the outside of the brackets.



26. Insert the .625" ID x 1.240" long R-Joint spacers into the front of the lower bar (33.250") with the small OD inserted into the R-joint. The small diameter of the spacer goes into the R-joint. Insert the front lower bar R-Joint into the front leaf spring mount. Line the through hole of the R-Joint with the of holes of the leaf spring mount. Install a 5/8" flat washer on to a 5/8"-18 x 5" hex bolt, insert into the lined up holes. Install a 5/8" flat washer followed by a 5/8"-18 THIN nylok nut. Repeat on both sides and tighten the bolts/nuts enough to eliminate any gaps.



Upper Bars & Panhard Mount Installation



27. Insert (2) .625" ID x .740" long R-Joint spacers into the R-Joint of one end of each upper bar (16.125"). The small diameter of the spacer goes into the R-joint. Insert the front upper bar R-Joint into the upper bar mount built into the c-notch. Line the through hole of the R-Joint with the of holes of the bar mount. Install a 5/8" flat washer on to a 5/8"-18 x 3" Hex bolt, insert into the lined up holes. Install a 5/8" flat washer followed by a 5/8"-18 THIN nylok nut. Repeat on both sides and tighten the bolts/nuts enough to eliminate any gaps.



28. Insert (2) .625" ID x .740" long R-Joint spacers into the rear R-Joint of each upper bar. The small diameter of the spacer goes into the R-joint. Insert the rear upper bar R-Joint into the upper axle bracket. Line the through hole of the R-Joint with the of holes of the axle bracket. Install a 5/8" flat washer on to a 5/8"-18 x 3 1/4" hex bolt, insert into the lined up holes. Install a 5/8" flat washer followed by a 5/8"-18 THIN nylok nut. Repeat on both sides and tighten the bolts/nuts enough to eliminate any gaps.



29. Depending on the year of your truck, it may have the rear brake hose attached to the axle above the driver side shock mount. If your truck doesn't have the brake line mounted in this location, skip to **Step 33**. If your truck has the brake line mounted in this location, continue to **Step 30**.



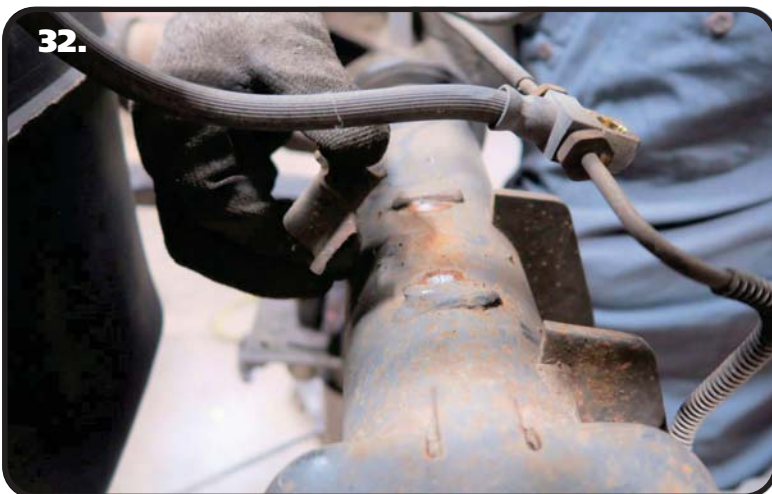
Panhard Mount Installation



30. Remove the bolt that attaches the brake hose to the bracket. This will allow you to move the brake line out of the way to cut the bracket off the axle tube.



31. We used a die-grinder with a cutoff wheel to cut the brake line bracket off the axle tube. Be careful to not cut into the axle tube.



32. With both sides of the bracket cut, remove it from the axle tube. Grind the area smooth.



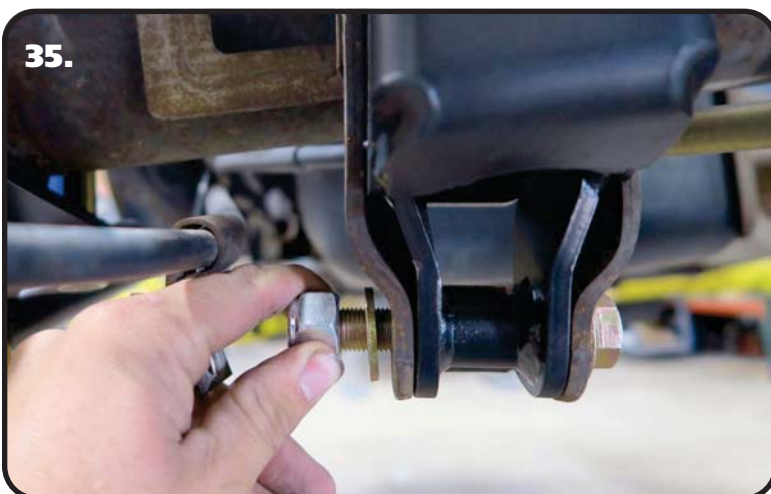
Panhard Mount Installation



33. Unbolt the emergency brake cable clamp from the outside of the driver shock bracket. We will cover reattaching it later in the instructions.



34. Position the panhard mount in the driver side shock bracket. The bottom mounting hole of the panhard bracket will align with the factory shock mounting hole.



35. Install a 9/16" SAE flat washer on a 9/16"-18 x 3 1/2" bolt. Insert the bolt through the OEM lower shock mount and panhard bar bracket. Install a 9/16" flat washer and 9/16"-18 nylok nut on the threads of the bolt. Do not tighten the hardware at this time.



Panhard Mount Installation



36. Position the panhard mount axle clamp on the front side of the axle tube, aligning it with the panhard mount that is already in position.



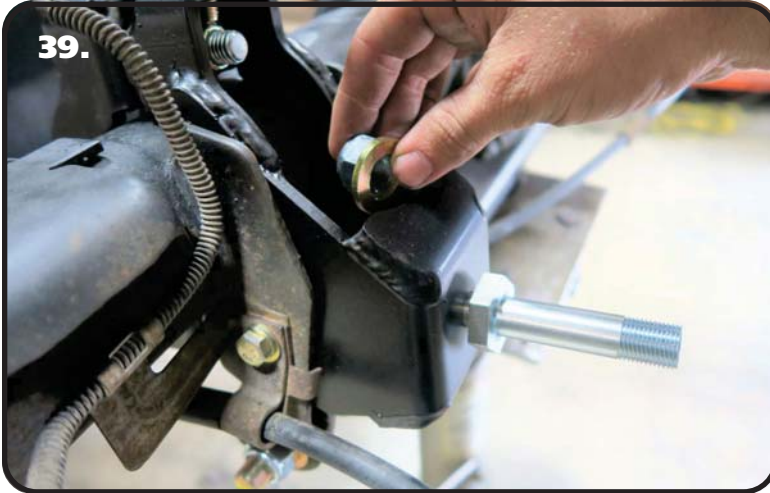
37. Install a 1/2" SAE flat washer on each of (2) 1/2"-13 x 1 3/4" bolts. Insert the bolt/washers in the top and bottom mounting holes of the clamp/mount. Install a 1/2" SAE flat washer and 1/2"-13 nylok nut on the threads of each bolt. Torque these bolts to 75 ftlbs. You can now torque the 9/16" hardware that was installed previously. Torque the 9/16" hardware to 110 ftlbs.



38. If your truck required the brake line bracket to be cutoff the axle tube, reattach it to the top of the panhard mount. Use the 5/16"-24 x 1" bolt, 5/16" split lock washer, & 5/16" SAE flat washer that's supplied in the kit.



Panhard Bar Installation



39. Insert the short side of the panhard stud into the rear hole of the panhard axle mount. Install a 9/16" SAE flat washer and 9/16"-18 nylok nut on the threads that are sticking through the bracket. Torque to 95 ftlbs.



40. Insert (2) .500" ID x .620" long R-Joint spacers into the R-Joint of one end of the panhard bar (35.00"). The small diameter of the spacer goes into the R-joint. Insert the panhard bar R-Joint into the panhard mount that is on the passenger c-notch. Line the through hole of the R-Joint with the of bottom holes of the panhard bracket. Install a 1/2" flat washer on to a 1/2"-13 x 3 1/4" hex bolt, insert into the lined up holes. Install a 1/2" flat washer followed by a 1/2"-13 nylok nut. Tighten the bolts/nuts enough to eliminate any gaps.

NOTE: The panhard mount has 2 sets of mounting holes to help set the panhard bar as level as possible depending on your ride height. We start out in the bottom hole.



41. Install a .625" ID x .740" long R-joint spacer into each side of the R-joint of the axle end of the panhard bar. The small diameter of the spacer goes into the R-joint. Slide the R-joint onto the stud and fasten in place with a 5/8" flat washer and 5/8"-18 THIN nylok nut. Torque to 95 ftlbs.



Shockwave/Coilover Installation



42. Insert the 1/2" ID Shock Bearing Spacers into the Bearing of the ShockWave/CoilOver. Install a 1/2" Flat Washer on a 1/2"-13 x 2 3/4" Bolts. Insert the top of the shock into the shock mount on the c-notch with the adjusting knob to the outside. Line up the holes and insert the bolt/washer. Install a 1/2" Flat Washer and 1/2"-13 Nylok Nut on the threads and tighten to 50 ftlbs.



43. The Shock Stud requires spacers that are .400" long (90002067). Install a 5/8" ID 90002067 spacer (**Small side towards shock body**) onto the lower Shock Stud. Slide the bottom of the Shock onto the Stud. Install a second 5/8" ID 90002067 Spacer onto the Stud (**small side towards shock**). You may need to jack the rear end up to Slide the Shock onto the Stud.



44. Install the 7/16" Flat washer and 7/16" Nylok nut. Tighten the upper and lower shock bolts. Torque the Upper Bolt to 50 ftlbs and the Lower Nut to 40 ftlbs. The designed ride height of the CoilOver/Shockwave is 14 1/2" center to center.

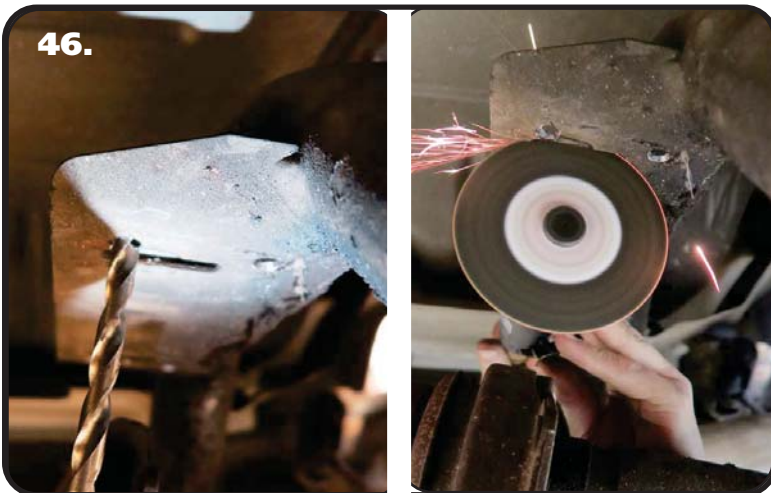


Carrier Bearing Mount

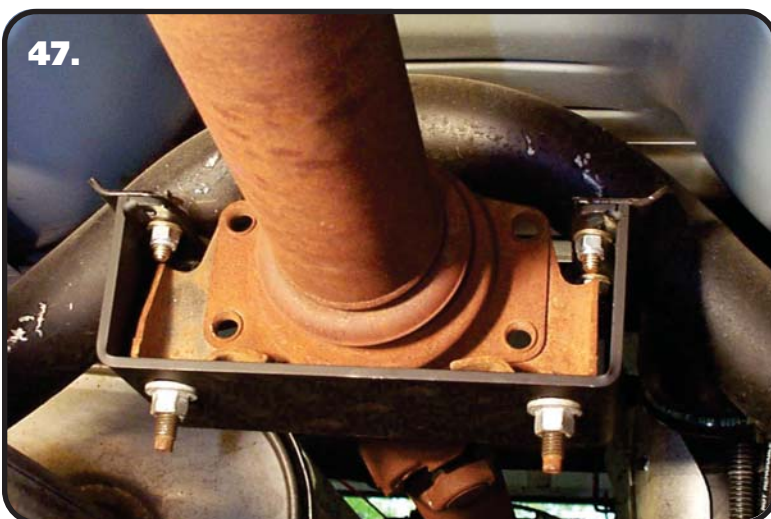


TRUCKS WITH CARRIER BEARINGS ONLY! IF YOUR TRUCK DOESN'T HAVE A CARRIER BEARING, SKIP TO STEP 48

35. The driveshaft carrier bearing will need to be relocated to optimize driveline angles at your new lower ride height. Refer to steps 35-37 for carrier bearing mount installation. Unbolt the carrier bearing retaining the OEM hardware. Center the new mount on the OEM mount. Use the OEM slots as a reference. Mark the holes and the inner edge of the mount.



46. Image 46 illustrates drilling and cutting the OEM carrier bearing mount. Drill the (4) marked holes using a 3/8" drill bit. Cut along the line that was marked along the inner edge of the new mount. This will remove the center of the OEM mount.



47. The new carrier bearing bracket is then bolted onto the remaining tabs. Attach the bracket using 3/8"-16 x 1" Bolts, Flat Washers, & 3/8"-16 Nylok Nuts. The carrier bearing mount is rotated 180 degrees and attached to the supplied bracket with the OEM hardware as shown in the picture in **Image 47**. The kit includes a Transmission Spacer that will need to be used in conjunction with the carrier bearing mount. Install it by loosening the hardware that attaches the transmission mount to the transmission crossmember. Jack up the rear of the transmission just enough to slide the spacer in and tighten the hardware.



Emergency Brake Cable Relocation



48. Steps 48-52 cover the emergency brake cable relocation. The cables need to be relocated to gain Shockwave/CoilOver clearance. Start by removing the bolt that clamps the passenger side cable to the driver side axle tube. Spread out the clamp to remove it from the cable. Retain the clamp, it will be reinstalled.



49. Disconnect the top cable from the cable yoke. This can be done by twisting the top of the yoke to the rear enough to get the cable out.



50. Disengage the cable from the frame mount and pull it out. The cable runs over the top of the axle from the factory, it needs to be pulled out and rerouted under the axle. Reroute the cable under the axle and reinsert in into the frame mount and connect to the yoke.



Emergency Brake Cable Relocation & Bed Modification



51. Reinstall the removed clamp with the ears pointing upward. Install the clamp on the cable and close it with a pair of pliers. Reattach the clamp to the OEM mount using the OEM hardware.



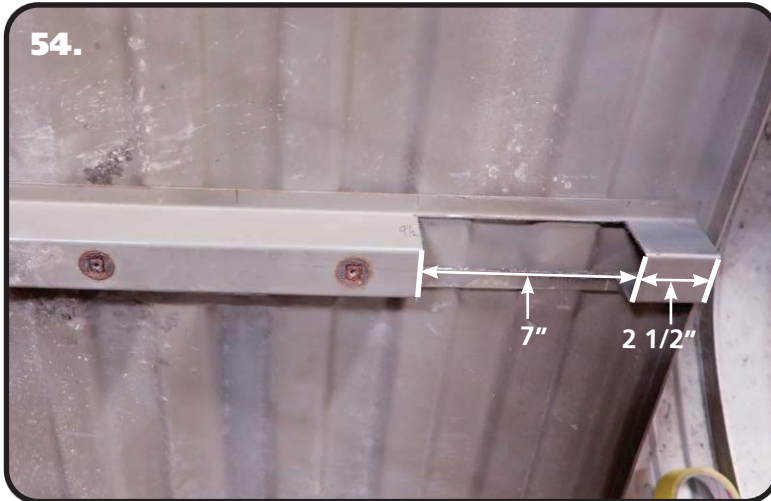
52. The Driver side emergency brake cable only requires the clamp be moved on the cable. Remove the attaching bolt and spread out the clamp enough to allow it to be moved. Move the clamp from the metal area to the rear edge of the plastic sheath. The rear edge of the clamp will line up with the rear edge of the sheath. Use the OEM bolt to reattach it.



53. The passenger emergency brake cable will get attached to the rear bolt of the passenger c-notch. Use the OEM clamp that attached it to the axle housing.



Bed Modification & Bumpstop Installation



54. Trimming of the bed brace that is in between the wheel wells is necessary to clear the c-notches and wishbone. We cut ours with a die-grinder. **Image 54** shows the passenger side, the dimensions are the same for both driver and passenger. The first notch starts 2 1/2" from the end of the brace. The notch is 7" long. Trim the driver and passenger side using these dimensions. **Image 55** shows the driver and passenger sides cut out.



55. Your bed brace should look like **Image 55** after cutting.



56. Install the Bumpstops into the C-Notch above the axle using the 3/8" Flat Washer and 3/8"-16 Nylok Nut supplied. A bumpstop will need to be installed in each c-notch.

57. Reinstall the bed.

58. Verify all hardware is tight.

59. Set ride height on the truck. The ride height of the Shockwave/CoilOver is approximately 14 1/2". If you are using Shockwaves, this is done by changing the air pressure in the Shockwaves. If you are using CoilOvers, the ride height is done by using the adjuster nut for the coil spring. The coil spring on the CoilOver will have some preload in the spring to get ride height, this is normal.