WJ 8" ROCK-LINK PRO

Instructions

	1-877-919-JEEP - www.ird	nrockoffroad.com
Parts	Checklist:	Front UCA Box: 13490 (1)
		☐ WJ 3-Link Front UCA 92277 (1)
	Logo decal 10001 (Qty: 1)	2 3/8 UCA Male End 91191 (1)
	Rock-Link Decal 13287 (2)	· /
	8" Front springs 96031 (2)	☐ Front coil spring retainer 92040 (2)
	8" Rear springs 96032 (2)	Front Coil Spring Retainer Kit - 80249 (1)
	WJ 2.5" drop pitman arm 10367 (1)	Front coil spring retainer cone 80061 (2)
	Track bar drop bracket 92207 (1)	☐ M12 x 35 flange bolt class 10.9 (2)
_	Front sway bar link, 13.5" center to center 92148 (2)	7/16 SAE flat washer (2)
		M12 rivet nut (2)
	Rear sway bar link, 18.5" center to center 92301 (2)	#6 - Front Brake Line Spacers (1)
		_
#00 7	3 ()	Front brake line spacer 92037 (2)
	VJ Sway Bar Disconnect Hardware (1)	M6 x 45 Front brake line bolt (2)
	Disconnect Pin 94028 (2)	☐ 1/4" USS washer (2)
	Spacer Sleeve 94032 (2)	#78 - Control Arm Spacer Hardware (1)
	1/2-20 x 2-1/2" Hex Bolt, gr8 (2)	☐ Control arm spacer 90194 (4)
	1/2 F436 Hard Washer (2)	#127 - 2 5/8" 6 Bolt IRO Flex End Hardware (2)
	1/4" x 1-1/4" Spring Lynch Pin (2)	☐ Inner race 91118 (2)
	VJ Sway Bar Disconnect Sleeves (1)	☐ Thrust washer 91119 (2)
	12mm bushing sleeve 92038 (2)	2-5/8" Flex End Ball 91117 (1)
	r Sway Bar Link Hardware (1)	10-32 x 1-3/4" Socket Head Cap Screw (6)
_		- 1 (-)
	3/4" hourglass bushing 94025 (4)	☐ 10-32 Nylock Nut (6)
	12mm sway bar bolt sleeve 92038 (2)	1/4"-28 90° Grease zerk Fitting (1)
	10mm sway bar bolt sleeve 92037 (2)	#168 - 2-3/8" Flex End Hardware (1)
	M10 x 70 sway bar link bolt (2)	End cap 91138 (2)
	M10 X 1.5 nylock flange nut (2)	Inner race 91139 (2)
	7/16 USS washer (2)	☐ Flex end ball 91140 (1)
	ocks Hardware (1)	8-32 x 1-1/2" socket head cap screw (8)
	12mm shock bolt sleeve 404739 (2)	☐ 1/4"-28 90° grease zerk fitting (1)
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	7/16" washer (6)	— · · · - · · · · · · · · · · · · · · ·
	5/16 x 1 hex bolt (4)	#181 - 3-Link Control Arm Clamping Hardware (1)
	5/16-18 hex nut (4)	☐ 1/4"-28 x 1-1/8" socket head cap screw (4)
	5/16 washer (8)	3/8-16 x 1 1/4" hex bolt grade 8 (1)
#80 - W.	l Track Bar Drop Subframe Hardware (1)	1/4"-28 hex nut, grade 8 (4)
	7/16 x 1 1/4" gr8 hex bolt (2)	3/8-16 nylock flange nut (1)
	7/16 gr8 hex nut (2)	☐ 3/8 Mil spec washer 95229A480 (1)
	7/16 USS washer (8)	#297 - M12 Rivet Nut Install Tool (1)
	M12 x 70 cl10.9 hex bolt (2)	
	M12 cl10.9 hex nut (2)	
		M12 hardened washer, class 10.9 (1)
	Subframe Box: 13319 (1)	Serrated hex install spacer, class 10.9 (1)
	Front Subframe center 92270 (1)	Rear Crossmember Box 13506 (1):
	Front Subframe left outer 92256 (1)	☐ WJ rear 4-Link crossmember 92244 (1)
	Front Subframe right outer 92275 (1)	☐ WJ rear 4-Link axle bracket 90234 (1)
	T-Case drop spacer 88264 (2)	Control Arms Box 13507-1 (1):
#183 - 3-	Link Long Arm Subframe Hardware (1)	
	☐ Nut Plate 92097 (2)	□ WJ left rear long LCA 85109B (1)
	M14 x 2.0 x 90 hex bolt class 10.9 (1)	☐ WJ right rear long LCA 85110B (1)
	M14 x 2.0 x 110 hex bolt class 10.9 (2)	Control Arms Box 1 13507-2 (1):
	M14 x 2.0 x 110 hex bolt class 10.9 (2)	☐ WJ rear long UCA 92214B (2)
	_	Rear coil spring retainer 92040 (2)
	7/16-14 x 1-1/4 hex bolt grade 8 (4)	☐ WJ Long Arm Male End 92186 (4)
	M10 x 1.5 x 30 hex bolt class 10.9 (4)	#23 - Coil Spring Retainer Hardware (1)
	☐ M10 x 1.5 x 60 hex bolt class 10.9 (4)	7/16-14 x 5" Socket head cap screw (2)
	☐ M10 x 1.5 x 80 hex bolt class 10.9 (5)	#65 - Adjustable LCA Clamping Hardware (2)
	M14 x 2.0 nylock flange nut class 10.9 (5)	
	M10 x 1.5 nylock flange nut class 10.9 (1)	1/4-28 x 1-1/8" Socket head cap screw (4)
	9/16 F436 hardened washer (5)	☐ 1/4-28 gr8 Hex nut (4)
		#127 - 2-5/8" 6 Bolt IRO Flex End Hardware (4)
	7/16 F436 hardened washer (13)	☐ Inner race 91118 (2)
_	1/4" Rubber trim edging (3")	☐ Thrust washer 91119 (2)
Front I	LCA Box: 15783 (1)	☐ Ball 91117 (1)
	WJ Long LCA Left Front 85107 (1)	☐ 10-32 x 1-3/4" Socket Head Cap Screw (6)
	WJ Long LCA Right Front 85108 (1)	10-32 Nylock Nut (6)
	Angled Long Arm Male End 91109 (2)	90 Degree 1/4"-28 Grease Zerk Fitting (1)

☐ 90 Degree 1/4"-28 Grease Zerk Fitting (1)

#160 - WJ 4-Link Crossmember Hardware (1)			
		7/16-14 x 1-1/4" gr8 hex bolt (10)	
		7/16 USS washer (10)	
		7/16-14 Serrated flange nut (2)	
		M14 x 100 cl10.9 hex bolt (4)	
		9/16" USS washer (8)	
		M14 cl10.9 hex nut (4)	
		2 hole nut plate 92097 (4)	
<u>#161</u>		J 4-Link Axle Bracket Hardware (1)	
		M14 x 35 cl10.9 hex bolt (3)	
		M14 x 110 cl10.9 hex bolt (2)	
		M14 x 120 cl10.9 hex bolt (2)	
		9/16 USS washer (4)	
		M14 cl10 nylock flange nut (4)	
		1/4" control arm spacer 90194 (4)	
		ble adjustable track bar 92305 (1)	
		ble adjustable track bar male end 92297 (1)	
		ble adjuster, track bar 91235 (1)	
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Standard Front Track Day			
~Sta	nda	rd Front Track Bar~	
~Sta		rd Front Track Bar~ 3 – W I Double Adjustable Track Bar Hardware (1)	
~Sta	<u>#25</u> .	3 – WJ Double Adjustable Track Bar Hardware (1)	
~Sta	#25:	3 – WJ Double Adjustable Track Bar Hardware (1) Track bar bushing half 80014 (4)	
~Sta	<u>#25</u> .	3 – WJ Double Adjustable Track Bar Hardware (1) Track bar bushing half 80014 (4) 12mm track bar bushing sleeve 92035 (2)	
~Sta	#253	3 – WJ Double Adjustable Track Bar Hardware (1) Track bar bushing half 80014 (4) 12mm track bar bushing sleeve 92035 (2) Track bar clamp 92303 (2)	
~Sta	#253	3 – WJ Double Adjustable Track Bar Hardware (1) Track bar bushing half 80014 (4) 12mm track bar bushing sleeve 92035 (2) Track bar clamp 92303 (2) M12-1.75 x 80 hex bolt (2)	
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	#25:	Track bar bushing half 80014 (4) 12mm track bar bushing sleeve 92035 (2) Track bar clamp 92303 (2) M12-1.75 x 80 hex bolt (2) M12-1.75 hex nut (2) 7/16" USS flat washer (4) al Front Track Bar~ 2 - Track Bar Flex End Hardware - 12mm (2) Inner race (plastic) 91113 (2) End cap (steel) 91112 (2)	
	#25: 	Track bar bushing half 80014 (4) 12mm track bar bushing sleeve 92035 (2) Track bar clamp 92303 (2) M12-1.75 x 80 hex bolt (2) M12-1.75 hex nut (2) 7/16" USS flat washer (4) al Front Track Bar~ 2 - Track Bar Flex End Hardware - 12mm (2) Inner race (plastic) 91113 (2) End cap (steel) 91112 (2) Ball 91104 – M12 bolt (1)	
	#255	Track bar bushing half 80014 (4) 12mm track bar bushing sleeve 92035 (2) Track bar clamp 92303 (2) M12-1.75 x 80 hex bolt (2) M12-1.75 hex nut (2) 7/16" USS flat washer (4) al Front Track Bar~ 2 - Track Bar Flex End Hardware - 12mm (2) Inner race (plastic) 91113 (2) End cap (steel) 91112 (2) Ball 91104 – M12 bolt (1) #5-40 x 1 1/4" Socket head cap screw (9)	
	#25.	Track bar bushing half 80014 (4) 12mm track bar bushing sleeve 92035 (2) Track bar clamp 92303 (2) M12-1.75 x 80 hex bolt (2) M12-1.75 hex nut (2) 7/16" USS flat washer (4) al Front Track Bar~ 2 - Track Bar Flex End Hardware - 12mm (2) Inner race (plastic) 91113 (2) End cap (steel) 91112 (2) Ball 91104 – M12 bolt (1)	
	#25.	Track bar bushing half 80014 (4) 12mm track bar bushing sleeve 92035 (2) Track bar clamp 92303 (2) M12-1.75 x 80 hex bolt (2) M12-1.75 hex nut (2) 7/16" USS flat washer (4) al Front Track Bar~ 2 - Track Bar Flex End Hardware - 12mm (2) Inner race (plastic) 91113 (2) End cap (steel) 91112 (2) Ball 91104 – M12 bolt (1) #5-40 x 1 1/4" Socket head cap screw (9) 3/32" Hex L key, high torque (hex plus) (1)	
	#25.	Track bar bushing half 80014 (4) 12mm track bar bushing sleeve 92035 (2) Track bar clamp 92303 (2) M12-1.75 x 80 hex bolt (2) M12-1.75 hex nut (2) 7/16" USS flat washer (4) al Front Track Bar~ 2 - Track Bar Flex End Hardware - 12mm (2) Inner race (plastic) 91113 (2) End cap (steel) 91112 (2) Ball 91104 – M12 bolt (1) #5-40 x 1 1/4" Socket head cap screw (9) 3/32" Hex L key, high torque (hex plus) (1) 5 - WJ Premium Track Bar Hardware (1)	
	#25.	Track bar bushing half 80014 (4) 12mm track bar bushing sleeve 92035 (2) Track bar clamp 92303 (2) M12-1.75 x 80 hex bolt (2) M12-1.75 hex nut (2) 7/16" USS flat washer (4) al Front Track Bar~ 2 - Track Bar Flex End Hardware - 12mm (2) Inner race (plastic) 91113 (2) End cap (steel) 91112 (2) Ball 91104 – M12 bolt (1) #5-40 x 1 1/4" Socket head cap screw (9) 3/32" Hex L key, high torque (hex plus) (1) 5 - WJ Premium Track Bar Hardware (1) Track bar bushing sleeve 92035 (2)	

Shocks ☐ Trail Tamer HD Hydro (Standard)

- ☐ Front Shock 79010 (2)
- ☐ Rear Shock 79011 (2)

☐ <u>Doetsch Upgrade (Optional)</u>

- ☐ Front shock DT 8421 (2)
- ☐ Rear shock DT 8403 (2)
- #9 Shock Hardware (1)
 - ☐ Front shock barpin 403876 (2)

☐ Bilstein Upgrade (Optional)

- ☐ Front shock 33-230399 (2)
- ☐ Rear shock 33-185576 (2)

#9 - Shock Hardware (1)

☐ Front shock barpin 403876 (2)





Installation Instructions:

Safety Warning: ***Important! Read before installation. ***

We recommend this system be installed by a qualified professional. Knowledge of suspension component function is necessary for safe installation and post installation inspections. Be sure to re-torque all suspension components after the first 100 miles of use, and frequently inspect all safety critical suspension components.

Before	

<u>Before</u>	<u>e you begin:</u>		
	Read all safety warnings.		
	Read and understand installation instructions.		
	A custom exhaust or IRO 4-link exhaust kit (13509) will be required. Factory exhaust will not work. Check all steering and suspension components for wear and replace as needed.		
	Contact Iron Rock Off Road with any questions before, during, or after installation.		
	Ensure that all parts are present and in good condition using the included shipping checklist *PRIOR* to scheduling installation.		
	Be sure you have the following tools and supplies:		
	Floor jack and jack stands.		
	□ Basic hand tools (wrenches, sockets, etc.)□ Multi-purpose grease.		
	■ Metal cutting tools such as a 4-1/2" angle grinder with thin metal cutting wheel, and a sandpaper flap wheel for an attractive finish.		
	Possibly a Sawzall with metal cutting blades.		
	Paint and primer (for uniframe - black or your choice of color).		
	1/2-20 (fine thread) Hand tap and tap handle		
	High Strength Thread locker such as Lock-Tite Red		
	□ String level, laser level and slope gauge or angle finder. □ Hand drill with good quality 7/16" drill bit		
	Anti-seize compound for bolts		
	Pitman arm puller		
Notes:			
	If your transfer case is an NP242WJH (32 spline) and your rear drive shaft is equipped		
	with a harmonic balancer (see picture). Additional parts may be required. See step 89		
_	This suspension lift kit <u>requires</u> a <u>front</u> double cardan driveshaft. This kit may require a longer <u>front</u> and/or longer <u>rear</u> driveshaft to eliminate driveshaft vibration and maintain adequate slip engagement.		
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	IRO Custom Length Double Cardan Driveshaft (Code: FDSX) WJ Front Driveshaft Conversion Kit (Code: 10374)		
	Due to the tall lift height of this suspension kit your OEM driveshafts might not be long enough. Driveshaft length depends on many factors such as		
	the engine, transfer case, and rear axle that your Jeep is equipped with as well as tire size and your desired wheel base. Some WJ OEM		
	driveshafts will work with this kit if the wheel base isn't stretched too far. The OEM double cardan front driveshaft and OEM rear driveshaft worked on our test WJ: 4.7L, 247 t-case, D30, D44HD, 33" tires, 8" springs, and trimmed fenders.		
	Ensure your rear driveshaft has adequate engagement in the transfer case by marking the slip yoke then remove the drive shaft and measure the		
_	amount of engagement. Minimum 50% of slip length should be engaged in transfer case.		
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- To help eliminate drivetrain vibration, it is recommended that the engine and transmission mounts be replaced if they are worn or if they are allowing the engine and transmission to sag. Excessive movement in worn engine and transmission mounts has been known to cause vibration under acceleration with tall lift kits.
- Contact Iron Rock Off Road with any questions before, during, or after installation.



Prepare the parts for Installation:

- 1. Shocks: Locate hardware kit #3 and the rear shocks.
- 2. Grease and install the 5/8" I.D. shock bushings included with the shocks.
- Grease and install the four 12mm shock bolt sleeves (two from HK #3, two included with the shocks). The rear shocks use 12mm sleeves at the top and bottom.
- 4. Grease and install barpins into the lower end of the front shocks as shown in figure 1.
- 5. Leave the rest of the hardware in the bag for future use.
- Track Bar: Locate track bar, track bar male end, double adjuster, and HK #253. Install clamps onto the double adjuster.

**If you upgraded to the Premium Track Bar refer to the instructions at the end of this document.

- 7. Apply anti-seize to all the threads then thread the track bar and male end into the double adjuster. Ensure the ends are equally threaded into the double adjuster then adjust the length to 33-5/8" center to center as a starting point. Do not tighten clamps at this time.
- 8. Sway Bar Links: Locate the rear sway bar links (18.5" center to center) and HK #2.
- Grease and install the hourglass bushings.
- 10. Grease and install the sway bar link bolt sleeves. Each rear link gets one 12mm I.D. sleeve and one 10mm I.D. sleeve.
- 11. Leave the rest of the hardware in the bag for future use.
- 12. Locate the front sway bar links.
- 13. Assemble IRO Front Sway Bar Disconnect system. Refer to the instructions at the end of this document.
- 14. Front Arms: Locate the lower control arms (larger), threaded male ends (larger, angled), HK #127 and 181.
- Locate the upper control arm (smaller), treaded male end (smaller, straight), and HK #168.



Control Arm Length		
(Starting Lengths - Center to Center)		
Front Lower Control Arms	37" (Short Side)	
Front Upper Control Arm	33 3/8"	
Rear Lower Control Arms	39 3/8" (Short Side)	
Rear Upper Control Arms	30"	

- 16. Assemble flex ends into lower control arm male ends. Use HK #127 and attached instructions (2-5/8").
- 17. Assemble flex end into upper control arm male end. Use HK #168 and attached instructions (2-3/8").
- 18. Apply a light coat of anti-seize compound to the threads and thread the male ends into control arms.
- 19. Adjust upper and lower control arm lengths per the chart as a starting point.
- 20. Install clamping bolts. Do not tighten at this time.
- 21. Rear Arms: Locate four control arms, male ends, and HK #127 & 65.
- 22. Build control arms: Assemble flex ends per attached instructions (last page).
- 23. Apply anti-seize to male threads and thread into the control arms. All male ends are the same.
- 24. Adjust upper and lower control arm lengths per the chart as a starting point.
- 25. Install clamping bolts. Do not tighten at this time.
- 26. With vehicle on level ground, measure the rear pinion angle. Hold a straight edge (steel ruler, flat steel plate) against the pinion seal metal body, then measure the angle with a slope gauge.





Control arm mounting subframe:

- 28. Lift front and rear of vehicle and support with jack stands under the uniframe. Leave room to cut off the stock lower control arm mounts.

 **Tip: break lug nuts loose before lifting vehicle. **
- 29. Raise transfer case very slightly and support with a jack stand.
- 30. Remove the transmission mount bolt and nut from the transmission crossmember.
- 31. Remove the factory transmission mounting crossmember.
- 32. Locate the left and right subframe outers and HK #183.
- 33. Add rubber edging to left subframe outer as shown in the picture.
- 34. Remove two plastic clips from the fuel lines on the left side of the frame. (arrows)

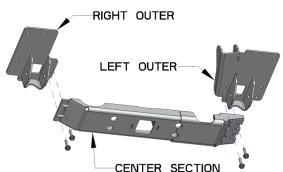




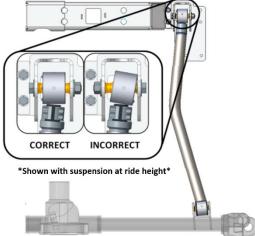
- 35. Install the new subframe left and right outers using provided M10 x 30 flange and M10 x 80 bolts in the same holes that held the factory crossmember. Be sure that the control arm mounting pockets are facing forward.
- 36. Tighten bolts firmly (bolts will be removed after drilling.)
- 37. Drill the additional 7/16" mounting holes, 2 per side at the front of each bracket.
- 38. Remove subframe outers. Remove any burrs and sharp edges around the holes. Clean, prime and paint any exposed metal.
- 39. Install nut plates into uniframe and position them over the drilled holes.
- Install subframe outers using 7/16 x 1-1/4 bolts, M10 x 80 bolts and washers.
 Leave inside holes open to mount the subframe center section.
- 41. Install subframe center section using the T-Case drop spacers: align the spacers with the center section mounting holes and use M10 x 60 hex bolts. The notch in the spacer matches the notch in the center section.
- 42. Torque 7/16 bolts to 65-ft-lbs. Torque M10 bolts to 34-ft-lbs.
- 43. Lower the transfer case on to subframe.
- 44. Install the factory transmission mounting bolt and nut and torque to 78-ft-lbs.

Front Suspension:

- 45. Remove upper and lower factory control arms, front shocks, track bar, springs and sway bar links.
- 46. Disconnect the driveshaft on the axle side and tape the u-joint so the caps do not fall off. Tie the driveshaft out of the way (use tape, zip tie, mechanic's wire, etc.) for easier access to the lower control arm mount.
- 47. Cut off factory lower control arm mounts from the uniframe on the driver's and passenger's side. ***Tip: Our favorite tool for this is a 4 ½" angle grinder with a thin cutting wheel. Remove in pieces for ease of access. ***
- 48. Clean up any burrs or sharp edges and grind smooth for an attractive appearance.
- 49. Clean, prime, and paint any exposed metal.
- 50. Locate HK #6.
- 51. Install front brake line spacers between front brake line and axle where the brake line meets the shock mount. Use new M6 bolts and washers.
- 52. Locate the coil spring retainers (black cones) and **HK #297**. The coil spring retainers bolt onto the front upper coil spring perch to keep the coil springs from falling out under extreme droop and hold the upper isolator in place.
- 53. Drill the existing hole in the center of each front upper coil spring perch with a 11/16"
- 54. Using **HK #297** install the M12 rivet nut into the upper coil spring perch.
- 55. Apply medium strength thread locker (such as Loctite blue) to the threads of both M12 bolts.
- 56. Position the upper coil spring isolator on the upper spring perch then install the retainer cone. The retainer cone will hold the isolator in place.
- 57. Install the upper control arm into the left subframe outer using M14 x 90 hex bolt, 9/16" washer, and M14 flange nut.
 - **Tip: Place M14 nut into an open-end wrench then slide it onto the back side of the subframe outer. Thread the M14 bolt into the nut.
- 58. Install upper control arm with the threaded male end at subframe with the bend hanging down to clear the floor of the Jeep.
- 59. Torque upper control arm bolt on the chassis side to 135-ft-lbs.
- 60. Connect the upper control arm to the axle using M10 x 80 bolt with washer and nylock flange nut. Do not tighten at this time.
- 61. Install Lower control arms with threaded adjusting end at the uniframe, and bends facing inward to clear the tires, thread clamping bolts facing down. Use provided M14 x
 - 110 bolts at frame, M14 x 120 at axle, 9/16" washers, and nylock nuts. At the axle, use 2 control arm spacers per side, outboard of control arms.
- 62. Disconnect drag link from pitman arm and remove the pitman arm retaining nut.
- 63. Remove pitman arm using pitman arm puller.
- 64. Remove the track bar from frame mount.
- 65. Insert track bar drop subframe into track bar mount using M12 bolt and washers from HK #80. Do not tighten at this time.











- 66. Swing subframe up until it makes contact with underside of frame rail. (Passenger side)
- 67. Mark 2 holes on pinch seam for drilling.
- 68. Drill these holes with 7/16" drill bit.
- 69. Apply touch up paint to drilled holes to prevent rust.
- 70. Swing subframe back up into place and install the two 7/16 bolts using washers.
- 71. Torque 7/16 bolts to 65 ft-lbs., torque track bar bracket bolt to 80 ft-lbs.
- 72. Reinstall track bar into drop bracket. The bends in the track bar are for clearance of the differential and the bracket on the axle. The threaded adjusting end attaches to the uni-frame.
- 73. Torque track bar to 105 ft.-lbs.
- 74. Install new drop pitman arm in the same orientation as the original equipment part. Slide old pitman arm back on as needed to get exact orientation.
- 75. Torque pitman arm nut to 185 ft-lbs.
- 76. Reinstall drag link onto pitman arm.
- 77. Torque drag link castle nut to 65 ft-lbs. and install a new cotter pin.
- 78. Install new front springs, JKS front sway bar links and new shocks using the factory hardware.
- 79. Do not tighten the control arm bolts at the axle at this time.

Rear Crossmember:

- 80. Lift rear of vehicle and support with tall jack stands under the unibody frame.
 - **Tip: break lug nuts loose before lifting vehicle.
- 81. Ensure that the vehicle is safely supported.
- 82. Remove rear tires.
- 83. Cut exhaust between catalytic converter and muffler. Remove tailpipe and muffler.
- 84. Removal of catalytic converter may be necessary depending on intended routing of new custom exhaust.

 Recommended custom exhaust routing at the end of instructions
- 85. Locate crossmember and HK #160.
- 86. Position crossmember with control arm tabs facing rear of vehicle.





NOTE: If you have the V8 with a NP242WJH (32 spline) transfer case and your rear drive shaft is equipped with a harmonic balancer (see picture) the balancer will interfere with the rear 4-link subframe. We offer 3 solutions:

- A. Install an IRO Hack-N-Tap Slip Yoke Eliminator (SYE) and a double cardan driveshaft.
- B. Install a new driveshaft that doesn't have the balancer or remove the balancer from your driveshaft.
- C. Move the subframe forward 3/4" and lengthen the upper and lower control arms by 3/4".
- 87. Line up crossmember with the large holes in frame. Hold the subframe securely in place using a floor jack.



- 88. Using the crossmember as a template, drill all ten 7/16 holes.
- 89. Remove crossmember, deburr holes, and paint exposed metal.
- 90. Insert nut plates into frame and position over 4 outer holes per side.
- 91. Install crossmember with 7/16 bolts and washers.
- Install 7/16 bolt, washer, and serrated nut into center hole on each side
- 93. Torque all bolts to 65 ft-lbs.

Rear Suspension:

- Place a floor jack under the center of rear axle for support (do not lift vehicle).
- 95. Loosen lower control arm bolts. Remove nuts but do not remove bolts.
- Remove factory shocks, springs, and sway bar links. Allow the rear suspension to droop as much as possible.
- 97. Locate 4-link axle bracket and HK #161.
- Raise rear axle up to a comfortable position to access the 3 a-arm retaining bolts on top of the differential.
- 99. Place a jack stand under the pinion to keep the axle from rotating.
- 100. Remove the 3 a-arm bolts on top of the differential.
- 101. Remove rear a-arm.
- 102. Install the 4-link axle bracket on the top of the differential using supplied M14x35 bolts.
- 103. Torque to 100 ft. lbs.
- 104. Install new upper control arms with the threaded male end located at the axle side. <u>Do not tighten bolts at this time</u>. Bend hangs down to clear the floor.
- 105. Locate lower control arms and 4 control arm spacers (1/4" thick washers).
- 106. Install new lower control arms with spacers on the outboard side of the bushings (pushing control arm towards center of vehicle), 2 at each axle bushing. Use the M14 x 120 bolts at axle and M14 x 110 at the frame. Do not tighten bolts at this time. Threaded male ends at the unibody. Bends face up for increased ground clearance, and inward to clear the uniframe.
- 107. Install coil spring retainers (2" diameter x 5" long black aluminum cylinders). They install in the center of the unibody side coil spring pad. Using plenty of oil, drill the center hole with 23/64 drill bit, again with plenty of oil, tap with 7/16-14 hand tap. Clean the new threads with brake cleaner. Apply high strength threadlocker to the bolts from **HK #23**. Install coil spring retainers and torque to 60 **inch-pounds**.
- 108. Install new rear springs, sway bar links and new shocks using the factory hardware.
- 109. Do not tighten the control arm bolts at the axle at this time.

Adjustments and Final Inspection:

- 110. Raise vehicle and reposition jack stands under the front and rear axles.
- 111. Temporarily install tire on one side.
- 112. With full vehicle weight on the suspension, check if the axles are centered as desired in the wheel opening. Adjust lower control arms to desired front to rear axle position. Adjust rear upper control arms to desired rear pinion angle (see step 31).
 - **Ensure your rear driveshaft has adequate engagement in the transfer case. See Picture **New longer rear driveshaft is recommended.
- 113. Check front caster angle. Using a laser level or string level, set the front axle level to the rear axle (left side and right). Bounce the Jeep up and down to ensure the suspension is in resting position (at exact ride height). Place the angle finder under the axle "C" (or on top of the upper ball joint). Ensure the angle finder is parallel to the Jeep front to rear. This is your caster angle. See chart for desired setting.
- 114. Adjust control arms to the desired position.
 - To adjust axle front to rear, adjust upper and lower control arms by the same amount. 12 turns equal one inch.
 - To adjust only caster, adjust only the upper control arm (3 turns equals roughly 2 degrees).
 - To adjust both, adjust both at the same time.
 - ***Caster angle may need to be adjusted after a test drive to eliminate driveline vibrations. ***
- 115. Check front axle position left to right. Adjust track bar length as needed. Torque clamps to 60 ft-lbs.
- 116. With full vehicle weight on the suspension, torque front upper control arm nut at the axle to 60 ft-lbs.
- 117. With full vehicle weight on the suspension, torque front and rear lower control arm bolts and rear upper control arm bolts to 120-ft-lbs.
- 118. Torque lower control arm clamping bolts to **140 in-lb**. Be sure to go back and forth between both bolts several times to ensure even clamping.
- 119. Install tires and wheels. Torque lug nuts (Typical specification is 85-115 ft-lbs., depending on your wheels)







Front Caster Angle (Starting point)		
(Starting point)		
Lift Height	Caster	
3.0"	5.5 degrees	
4.0"	4.5 degrees	
5.5"	3.5 degrees	
6.5" - 8.0"	3.0 degrees	

120. Recheck all fasteners and torque any remaining loose nuts or bolts to spec.



121. Check all components for clearance for suspension to fully cycle up and down and wheels to turn lock to lock. Pay special attention to brake lines, axle vent hoses, and ABS wires. Reposition as needed by bending the brackets, relocating, or extending hoses and wiring.

* A professional front end alignment is required after installation. * Recommended alignment settings:

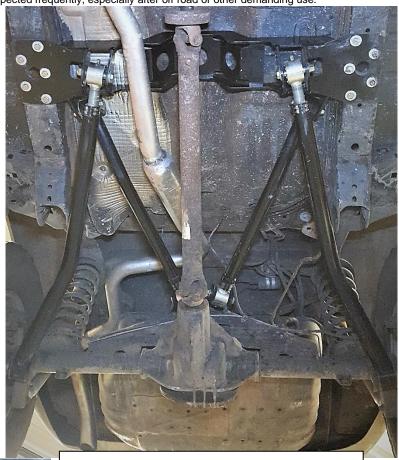
Caster: +3.5 to +6.5 See chart above.

Toe-in: +1/16" to +1/8"



Final Safety Warning:

* Re-torque all fasteners after 100 miles, and frequently inspect all safety critical suspension components. It is the responsibility of the installer to ensure all fasteners are properly tightened after installation and to ensure the owner knows his/her ongoing responsibility. It is the responsibility of the owner of the vehicle to be sure all safety critical components are inspected frequently, especially after off road or other demanding use.







Recommended custom exhaust routing

2-5/8" IRO Flex End (6 bolt) **Assembly Instructions** 1-877-919-JEEP www.ironrockoffroad.com

Fits All Iron Rock Off Road Long Arm Systems, WJ A-Arms, and Build Your Own Flex End Assemblies.

Before you begin:

- Read and understand installation instructions.
- Contact Iron Rock Off Road with any questions before, during, or after installation.
- Ensure that all parts are present and in good condition per attached shipping checklist!
- Have these tools handy:
 - 5/32" Allen head socket
 - 3/8" open end wrench
 - Inch-lb. torque wrench
 - Multipurpose grease/grease gun

Parts Checklist:

Outer housing, weld on (may already be attached to your existing control arm)

#127 - 2-5/8" IRO Flex End (6 bolt)

- 2-5/8" flex end race 91118 (2)
- ☐ Thrust washer 91119 (2)
- 2-5/8" flex end ball 91117 (1)
- □ #10-32 nylock nut (7)
- □ #10-32 x 1-3/4" socket head cap screw (6)
- 90° 1/4"-28 grease zerk fitting (1)



Assembly:

- Insert two #10-32 socket head cap screws into one thrust washer and one plastic race. Spherical bore of race facing away from thrust washer. (Figure 1)
- Install this small assembly into the flex end housing. The races are a light press fit, use a wide punch and hammer to assist you if needed.
- Apply a thin coating of multi-purpose grease to the mating surfaces of the ball and both races.
- Place the ball in the race (inside the flex end). The ball should perfectly fit the contour of the race. (Figure 2)
- Insert the other race onto the ball so that the spherical bore is contacting the ball. Once again, the races are a light press fit, use a hammer and wide punch if needed. (The two screws should be through one washer and both races at this point)
- Insert the second thrust washer on top of the flex end housing, sliding the bolts through the 6. holes. (Figure 3)
- 7. Start nylock nuts on the two bolts that are in the flex end assembly. Hold the nut and turn the
- 8. Insert the remaining four cap screws through the remaining holes and install nuts. (Figure 4)
- Snug up all of the bolts fairly tight.
- Torque bolts evenly, starting at one bolt and continuing using a crisscross pattern. Torque all six bolts to 70 in-lbs., then to 85 in-lbs.
- Install 90° grease zerk fitting so that it is easily accessed in the vehicle.
- 12. Grease flex end until grease comes out of the races around the ball.
- 13. Re-torque bolts to 85 in-lbs. after 5 minutes.



Reference Only Complete joint shown fully assembled without housing

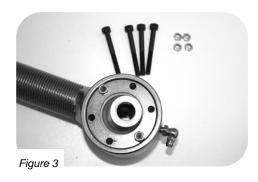






Figure 2

Before you begin:

- Read and understand installation instructions.
- o Contact Iron Rock Off Road with any questions before, during, or after installation.
- Ensure that all parts are present and in good condition per attached shipping checklist!
- Have these tools handv:
 - 9/64" Allen head socket
 - 3/8" open end wrench
 - o Inch-lb. torque wrench
 - o Multipurpose grease/grease gun

Parts Checklist:

• Outer housing, weld on (may already be attached to your existing control arm)

#168 - 2-3/8" IRO Flex End (8 bolt)

- ☐ Inner race 91139 (2)
- ☐ Thrust washer 91138 (2)
- □ Ball 91140 (1)
- #8-32 x 1-1/2" socket head cap screw (8)
- ☐ ¼"-28 90° grease zerk fitting (1)
- ¼-28 straight grease zerk fitting (1)



Assembly:

- 1. Insert two #8-32 socket head cap screws into one thrust washer and one plastic race. Spherical bore of race facing away from thrust washer. (Figure 1)
- 2. Install this small assembly into the flex end housing. The races are a light press fit, use a wide punch and hammer to assist you if needed.
- 3. Apply a thin coating of multi-purpose grease to the mating surfaces of the ball and both races.
- 4. Place the ball in the race (inside the flex end). The ball should perfectly fit the contour of the race.
- 5. Insert the other race onto the ball so that the spherical bore is contacting the ball. Once again, the races are a light press fit, use a hammer and wide punch if needed. (The two screws should be through one washer and both races at this point)
- Insert the second thrust washer on top of the flex end housing, aligning the bolts with the threaded holes.
- Start threading the two bolts into the threaded holes of the thrust washer. Do not fully tighten at this time.
- Insert the remaining cap screws through the remaining holes and get them started in the threaded washer.
- Snug up all of the bolts fairly tight. Go back and forth, rechecking each bolt several times to ensure even clamping
- 10. Torque bolts evenly starting at one bolt using a crisscross pattern, like torquing lug nuts. Torque all eight bolts to 50 in-lbs., then to 55 in-lbs.
- 11. Install 90° grease zerk fitting so that it is easily accessed in the vehicle.
- 12. Use a grease gun to grease the flex end through the zerk fitting. This will be difficult due to the tight tolerances in the flex joint assembly.
- 13. Re-torque bolts to 55 in-lbs.

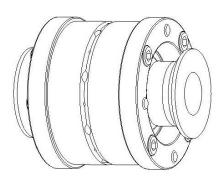
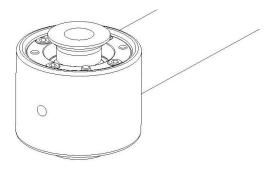


Figure 1

Reference Only Complete joint shown fully assembled without housing



1-877-919-JEEP www.ironrockoffroad.com

Parts Checklist:

#122 - Track Bar Flex End - 12mm (1)

- ☐ Inner race (plastic) 91113 (2)
- End cap (steel) 91112 (2)
- Ball 91104 - M12 bolt (1)
- ☐ #5-40 x 1 1/4" Socket head cap screw (9)
- ☐ 3/32" Hex L key, hi torque (hex plus) (1)

#254 - Track Bar Flex End - 14mm (1)

- ☐ Inner race (plastic) 91113 (2)
- End cap (steel) 91112 (2)
- Ball 91142 M14 bolt (1)
- ☐ #5-40 x 1 1/4" Socket head cap screw (9)
- ☐ 3/32" Hex L key, hi torque (hex plus) (1



Safety Warning:

Installation and assembly of this part requires knowledge of steering and suspension systems. Failure to precisely adhere to installation procedure may cause a part failure resulting in vehicle damage and serious injury or death. This part only fits Iron Rock Off Road track bars in good condition. Iron Rock Off Road makes no claims that this part will fit track bars from other manufacturers. Improper fitment may cause a part failure resulting in vehicle damage, serious injury, or death.

Before you begin:

- Read and understand installation instructions.
- Contact Iron Rock Off Road with any questions before, during, or after installation.
- Ensure that all parts are present and in good condition per attached shipping checklist!
- Ensure that you have high strength threadlocker (such as red Loctite) and multi-purpose grease.

Fitment:

This kit replaces the poly bushings and inner sleeve in your Iron Rock Off Road track bar. This part only fits track bars manufactured by Iron Rock Off Road after 2009 with an inside diameter of 1.510", a width of 1.250", and a radiused inside corner.

***To verify fitment: Remove the track bar from your vehicle, remove the poly bushings, clean the parts, and verify the following is true: ***

- The plastic races fit tight inside the inside bore.
- Both end caps fit the inside bore with just a bit of "wiggle room".
- Both end caps slide in freely until the flat shoulder rests firmly against the end of the outer tube.
- The overall width of the outer tube is 1.250". This can be measured with a caliper or verified after flex end is fully assembled. Once fully assembled (bolts torqued to spec.) the shoulders of the end caps should rest firmly against the ends of the outer tube. At the same time, the ball should fit tight inside the assembly. It should require a tool (such as a screwdriver) to pivot or rotate the ball. The ball should pivot smoothly with even resistance in any position.

If any of those steps cannot be verified, please contact us to order a new track bar.

Bolt size: This bushing replacement assembly is only available to fit a 12mm & 14mm bolt at this time. Those with a 10mm fastener may wish to upgrade to 12mm hardware for more strength (drill your bracket and install a 12mm bolt).

Assembly:

- Verify fitment per the "Fitment" section above.
- Insert four socket head cap screws into one end cap and one race. (Race should have spherical bore facing 2. away from end cap.)
- 3. Install this small assembly into the track bar outer bushing tube. The races are a light press fit, use a wide punch and hammer to assist you if needed.
- Apply a thin coat of multi-purpose grease to the ball and the spherical mating surface of the races. Coat both 4 mating surfaces but leave no excess grease that would interfere with the threadlocker adhesive on the bolts.
- Place the ball into the race inside the housing. The ball should fit the contour of the race perfectly. 5.
- Insert the other race on top of the ball so that the spherical bore is contacting the ball. Once again, the races are a light press fit, use a hammer and wide punch if needed. (The four screws should be through one end cap and both races at this point.)
- Apply a generous coating of high strength threadlocker (such as red Loctite) to all 8 screws (including the ones already installed).
- Install the second end cap, aligning the screws with the tapped holes. When completed 4 screws will be inserted from each side. 8.
- Insert the last four screws and tighten them all snug.
- Torque screws in sequence using a crisscross pattern, like torquing lug nuts. Tighten all 8 screws evenly in small steps. Take your time and do not rush. Tighten all 8 screws to 20 in/lbs.







RONROCKOFFRADAD

Sway Bar Disconnect Links Instructions

Parts List:

#268 - Sway Bar Disconnect Bushings (1)

□ Poly Bushing 94025 (4)

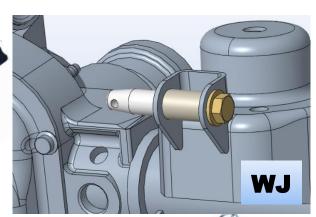
WJ ~Optional~

#267 - WJ Sway Bar Disconnect Hardware (1)

- ☐ Disconnect Pin 94028 (2)
- Spacer Sleeve 94032 (2)
- 1/2-20 x 2-1/2" Hex Bolt, gr8 (2)
- ☐ 1/2 F436 Hard Washer (2)
- ☐ 1/4" x 1-1/4" Spring Lynch Pin (2)

#288 - WJ Sway Bar Disconnect Sleeves (1)

☐ 12mm bushing sleeve 92038 (2)



JK ~Optional~

#266 - JK Sway Bar Disconnect Hardware (2)

- ☐ Disconnect Pin 94028 (2)
- ☐ 1/2-20 x 1" Hex Bolt, gr8 (2)
- 1/2 F436 Hard Washer (2)
- ☐ 1/4" x 1-1/4" Spring Lynch Pin (2)

XJ ~Optional~

#287 - XJ Sway Bar Disconnect Hardware (1)

- Disconnect Pin 94028 (2)
- 1/2-20 x 1" Hex Bolt, gr8 (2)
- ☐ 1/2 F436 Hard Washer (2)
- ☐ 1/4" x 1-1/4" Spring Lynch Pin (2)
- ☐ 12mm bolt sleeve 92038 (2)
- ☐ M12 x 70 cl10.9 hex bolt (2)
- ☐ M12 cl10.9 hex nut (2)
- ☐ 1/2 x 1 1/2" gr8 hex bolt (2)
- 1/2 gr8 lock washer (2)
- 1/2 gr8 hex nut (2)
- ☐ U-Bracket 99000 (2)

TJ & ZJ ~Optional~

#286 - XJ Sway Bar Disconnect Hardware (1)

- Disconnect Pin 94028 (2)
- 1/2-20 x 1" Hex Bolt, gr8 (2)
- 1/2 F436 Hard Washer (2)
- 1/4" x 1-1/4" Spring Lynch Pin (2)
- 12mm bolt sleeve 92038 (2)
- M12 x 60 hex bolt, cl10.9 (2)
- M12 hex nut, cl10.9 (2)
- M10 x 30 hex bolt, cl10.9 (2)
- 3/8" USS washer (2)
- M10 hex nut, cl10.9 (2)
- ☐ U-Bracket 99000 (2)

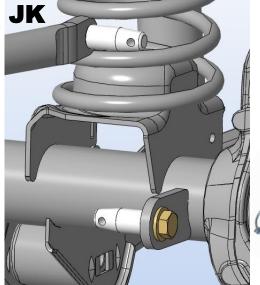


Safety Warning: *Important! Read before installation.

We recommend this system be installed by a qualified professional. Knowledge of suspension component function is necessary for safe installation and post installation inspections. Be sure to re-torque all suspension components after the first 100 miles of use, and frequently inspect all safety critical suspension components frequently.

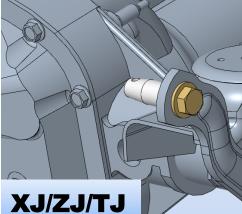
Notes:

Do not operate vehicle with only one side of the sway bar connected. Both sides of the sway bar must either be disconnected or both sides must be connected.









Before you begin:

- Read all safety warnings.
- Read and understand installation instructions.
- Contact Iron Rock Off Road with any questions before, during, or after installation. 952-210-7185
- Ensure that all parts are present and in good condition using the included shipping checklist.
- Be sure you have the following tools and supplies:
 - ☐ Floor jack and jack stands.
 - Basic hand tools (wrenches, sockets, etc.).
 - Multi-purpose grease

Prepare for installation:

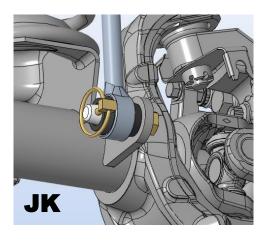
- 1. Locate the front sway bar links, bushings, and bolt sleeves.
- 2. Grease and install the hourglass bushings.
- 3. Grease and install the sway bar link inner sleeves in only one end of each link.
- 4. Raise the vehicle and secure on jack stands under the frame.
- 5. Remove the front tires.
- 6. Disconnect the original front sway bar links from the axle and sway bar.

XJ Installation:

- 7. Locate front sway bar links, two u-brackets, and HK #287.
- 8. Install sway bar link u-brackets to the sway bar using 1/2 x 1-1/2" grade 8 hex bolts, lock washers, and nuts. Brackets mount to the bottom of the sway bar with the bolt facing up and the lock washer and nut on top of the sway bar. Rotate the bracket so it is offset away from the center of the vehicle. Align brackets, torque bolts to 80 ft-lbs.
- 9. Install sway bar links driver's side first using provided M12 x 60mm class 10.9 hex bolt and nut through the u-bracket with the nuts toward the outside of the vehicle. Tighten all bolts to 78 ft-lbs.
- 10. Install the disconnect pin on the axle, pin pointing in-board. Use the 1/2" x 1" bolt with a washer.
 - <u>Tip:</u> Before tightening determine your desired orientation for the retaining pin.
- 11. Hold the disconnect pin in your desired orientation and torque the bolt to 70lb-ft.
- 12. Apply grease to the disconnect pin and slide the sway bar link onto the disconnect pin.
- 13. Secure the sway bar link in place using the spring lynch pin.
 - *NOTE: The spring lynch pin should take some effort to install. This is done on purpose to keep the link secure and noise free.
- 14. Reinstall tires and torque lug nuts to spec.
- 15. Lower vehicle to the ground.
- 16. With the vehicle back on the ground, pull the spring pins and slip the sway bar links off the disconnect pins.
- 17. Swing the sway bar links up to the sway bar then swing the sway bar up to its highest position.
- 18. Flex the suspension and steer fully left and right. Check for possible interference between the tires and sway bar.
- 19. Reconnect the sway bar links to the axle.
- 20. For ease of installation and best performance, re-grease the sway bar bushings periodically.

ZJ and TJ Installation:

- 21. Locate front sway bar links, two u-brackets, and HK #286.
- 22. Install sway bar link u-brackets to the sway bar using M10 x 30 hex bolts nuts and washers. Brackets mount to the bottom of the sway bar with the bolt facing up and the washer and nut on top of the sway bar. Align brackets with offset holes pushing the brackets toward the outside of the vehicle. Torque to 60 ft-lb.
- 23. Install sway bar links driver's side first using provided M12 x 60mm class 10.9 hex bolt and nut through the u-bracket with the nuts toward the outside of the vehicle. Tighten all bolts to 78 ft-lb.
- 24. Install the disconnect pin on the axle, pin pointing in-board. Use the $1/2" \times 1"$ bolt with a washer.
 - <u>Tip:</u> Before tightening determine your desired orientation for the retaining pin.
- 25. Hold the disconnect pin in your desired orientation and torque the bolt to 70lb-ft.
- 26. Apply grease to the disconnect pin and slide the sway bar link onto the disconnect pin.
- 27. Secure the sway bar link in place using the spring lynch pin.
 - *NOTE: The spring lynch pin should take some effort to install. This is done on purpose to keep the link secure and noise free.
- 28. Reinstall tires and torque lug nuts to spec.
- 29. Lower vehicle to the ground.
- 30. With the vehicle back on the ground, pull the spring pins and slip the sway bar links off the disconnect pins.
- 31. Swing the sway bar links up to the sway bar then swing the sway bar up to its highest position.
- 32. Flex the suspension and steer fully left and right. Check for possible interference between the tires and sway bar.
- 33. Reconnect the sway bar links to the axle.
- 34. For ease of installation and best performance, re-grease the sway bar bushings periodically.



WJ Installation:

- 35. Install the sway bar links onto the sway bar using the original hardware.
- 36. Install the disconnect pin on the axle, pin pointing in-board, spacer sleeve inside the mount.

Use the 1/2" x 2-1/2" bolt with a washer.

- <u>Tip:</u> Before tightening determine your desired orientation for the retaining pin.
- 37. Hold the disconnect pin in your desired orientation and torque the bolt to 70lb-ft.
- 38. Install the new bushings into your sway bar links using plenty of multi-purpose grease.
- 39. Reinstall your sleeves into the top of the sway bar link bushing using multi-purpose grease.
- 40. Reinstall your sway bar link onto the sway bar and torque the bolts to 70lb-ft.
- 41. Apply grease to the disconnect pin and slide the sway bar link onto the disconnect pin.
- 42. Secure the sway bar link in place using the spring pin.

*NOTE: The spring pin should take some effort to install. This is done on purpose to keep the link secure and noise free.

- 43. Reinstall tires and torque lug nuts to spec.
- 44. Lower vehicle to the ground.
- 45. With the vehicle back on the ground, pull the spring pins and slip the sway bar links off the disconnect pins.
- 46. Swing the sway bar links up to the sway bar then swing the sway bar up to its highest position.
- 47. Flex the suspension and steer fully left and right. Check for possible interference between the tires and sway bar.
- 48. Reconnect the sway bar links to the axle.
- 49. For ease of installation and best performance, re-grease the sway bar bushings periodically.

JK Installation:

- 50. Use a 1/2" drill bit to slightly enlarge the bolt hole in the sway bar. Only a very minor amount of material will be removed.
- 51. Install the disconnect pin on the axle, pin pointing in-board. Use the 1/2" x 1" bolt with a washer.
- 52. Install the disconnect pin on the sway bar, pin pointing out-board. Use the 1/2" x 1" bolt with a washer.

<u>Tip:</u> Before tightening determine your desired orientation for the retaining pin.

- 53. Hold the disconnect pin in your desired orientation and torque the bolts to 70lb-ft.
- 54. Install the bushings into the sway bar links using plenty of multi-purpose grease.
- 55. Apply grease to the disconnect pins and slide the sway bar link onto the disconnect pins.

*NOTE: Twist the passenger side link onto the lower pin first, then slide it onto the upper pin. It is a snug fit with the factory track bar bracket, but it is achievable.

- 56. Secure the sway bar link in place using the spring pins.
 - *NOTE: The spring pin should take some effort to install. This is done on purpose to keep the link secure and noise free.
- 57. Reinstall tires and torque lug nuts to spec.
- 58. Lower vehicle to the ground.
- 59. With the vehicle back on the ground, pull the spring pins and slip the sway bar links off the disconnect pins.
- 60. Swing the sway bar up to its highest position.
- 61. Flex the suspension and steer fully left and right. Check for possible interference between the tires and sway bar.
- 62. Reconnect the sway bar links to the axle.
- 63. For ease of installation and best performance, re-grease the sway bar bushings periodically.

Final Safety Warning:

*Both sides of the sway bar must be disconnected. Do not operate vehicle with only one side of the sway bar connected.

Re-torque all fasteners after 100 miles, and frequently inspect all safety critical suspension components. It is the responsibility of the installer to ensure all fasteners are properly tightened after installation and to ensure the owner knows his/her ongoing responsibility. It is the responsibility of the owner of the vehicle to be sure all safety critical components are inspected frequently, especially after off road or other demanding use.



