



<u>Shocks</u>

- Trail Tamer HD Hydro (Standard)
 - Given Front shock 79001 (2)
 - Rear shock 79004 (2)
- Doetsch Tech Shock Upgrade (Optional)
 - Front shock DT 8350 (2)
 - Rear shock DT 8299 (2)
 - #165 JK Shock Hardware (1)
 - Rear barpin GS-403261 (2)
- Bilstein Shock Upgrade (Optional)
 - Front shock 33-230351 (2)
 - Rear shock 33-185552 (2)

#164 – JK Bilstein Shock Hardware (1)

- Rear barpin GS-403261 (2)
- □ 12mm shock sleeve 79008 (4)







- ***Ensure that all parts are present and in good condition using above shipping checklist. ***
- Read and understand all installation instructions.
- Tools required:
 - Floor jack and jack stands.
 - Basic hand tools
 - Torque wrench
 - File or angle grinder
 - Anti-seize compound.
 - Multipurpose grease

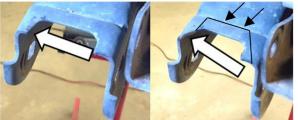
Prepare the parts for installation:

- 1. **Shocks:** Locate rear shocks and hardware kits.
- 2. Grind the outer corners on one end of the barpins to ease installation.
- 3. Grease and install the barpins into the top side of the rear shocks. Clamp the barpin vertically in a bench vise and lower the shock onto the barpin while rotating the shock back and forth. Be sure to grease the barpin and the shock bushing.
- Front Track Bar: Locate front track bar, HK #166 and track bar threaded male end. If you upgraded to the Premium Track Bar, refer to the instructions at the end of this document.
- 5. Lubricate track bar bushings and bushing sleeves with multi-purpose grease and install into track bar and track bar threaded male end.
- 6. Slip clamping bracket onto adjusting end of track bar with the opening down and insert the 5/16 carriage bolt from rear and nut facing forward.
- 7. Use a light coat of anti-seize then thread the track bar male end into the track bar. Adjust to the length in the chart as a starting point. Length may need adjustment after a test drive.
- 8. Tighten the clamping bracket. Make sure the bracket opens rearward, and nut faces down.
- <u>Adjustable Control Arms</u>: Using the instructions on the last page assemble the flex ends into the threaded male ends for LCAs and into the arms for UCAs.
- 10. Use a light coat of anti-seize then thread the male ends into the control arms and adjust to the lengths in the chart as a starting point.
- 11. Install the clamping hardware into the control arms, do not fully tighten at this time.

Front installation:

12. Lift front of vehicle and support with jack stands under frame rails. **Tip: break lug nuts loose before lifting vehicle.

- 13. Remove front wheels
- 14. Remove front sway bar links.
- 15. Support the axle with jack stands and remove shocks.
- 16. Disconnect the front brake hose brackets from the frame.
- 17. Remove front track bar.
- 18. Remove coil springs.
- 19. Remove the factory lower control arms.
- 20. Grind both of the sharp corners inside the lower control arm mounts. See photo. Jeeps with long shocks can gain flex by grinding up to the crease in the LCA bracket.

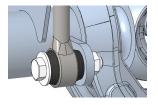


- 21. Install new lower contol arms using the factory hardware. Do not tighten bolts at this time.
- The bend goes up for ground clearance and in for tire clearance. The rubber bushing goes to the axle and the flex end at the frame.
- 22. Remove factory upper control arms and install new upper contol arms using the factory hardware. Clamping bolt facing down. Do not tighten bolts at this time.
- 23. Install new coil springs.
- 24. Install brake hose extension bracket on frame in factory location using factory bolt.
- 25. Reinstall brake hose on new bracket using provided bolt and nut. Gently bend steel hard line as needed to connect to the new bracket. Re-route ABS wires as needed to allow full suspension droop.
- 26. Install new shocks.
- 27. Assemble and install new front sway bar links using **HK #201**. Grease and install the hourglass bushings into the links then grease and install the sway bar link bolt sleeves into the bushings.
- 28. All front sway bar sleeves are the same (12mm I.D.). Use bolts from **HK #201** for the top bolt and reuse the original bolt for the lower.
- 29. If you upgraded to IRO Sway Bar Disconnect system, refer to the instructions at the end of this document.
- 30. Install new front track bar with threaded end to axle side. The clamp hangs down, bolt facing front.
- 31. Reinstall front wheels and lower vehicle onto ground.





Track Bar & Control Arm Length (Center to Center)		
Front UCA (Upper Control Arm)	18-3/4"	
Front LCA (Lower Control Arm)	23-1/4"	
Rear UCA	17-3/8"	
Rear LCA	19-7/8"	
Front Track Bar	32-9/16"	
Rear Track Bar	40"	

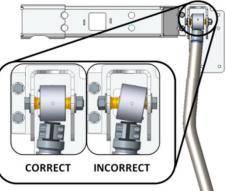


Rear installation:

- 32. Lift rear of vehicle and support with jack stands under frame rails. **Tip: break lug nuts loose before lifting vehicle.
- 33. Remove rear wheels.
- 34. Remove sway bar links.
- 35. Support the axle with jack stands and remove shocks.
- 36. Remove coil springs.
- 37. Remove the rear track bar.
- 38. Install the springs into the Jeep.
- 39. Install new track bar into rear track bar bracket using the factory track bar bolt and flag nut. Tighten jam nut very tight.
- 40. Disconnect the brake hose brackets from the frame.
- 41. Install brake hose extension bracket on frame in factory location using factory bolt.
- 42. Reinstall brake hose on new bracket. Gently bend steel hard line as needed to connect to the new bracket.
- Re-route ABS wires as needed to allow full suspension droop.
- 43. Remove factory lower control arms and install new lower contol arms using the factory hardware. Clamping bolts facing down, flex end at the frame, grease zerk pointed down.
- 44. Remove factory upper control arms and install new upper contol arms using the factory hardware. Clamping bolt facing in, flex end at the frame. *For ease of installation: it is recommended that the rear axle be set at ride height and the upper control arm bolts be torqued before install of the rear bump stop spacers.
- 45. Assemble new rear sway bar links using **HK #201**. Grease and install the hourglass bushings into the links then grease and install a bolt sleeve into each rear sway bar link.
- 46. Install new shocks.
- 47. Reinstall rear wheels.
- 48. Lower vehicle onto ground.

Final Torque and Adjustments:

- 49. The draglink must be adjusted to center the steering wheel before driving the vehicle. Failure to do so will cause an error with the factory traction control system and will result in odd handling and decreased performance.
- 50. Check that axles are centered side to side and adjust track bars as needed.
- 51. With the vehicle weight on the suspension, tighten front lower control arm bolts to 130 lb-ft. Tighten front upper control arm bolts to 75 lb-ft.
- 52. Tighten rear upper and lower control arm bolts to 130 lb-ft.
- 53. Torque lug nuts to factory spec. (85 to 115 ft-lbs)
- Ensure flex ends are parallel with control arm mounts then 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.
- 55. 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.



Shown with suspension at ride height

Final Safety Warning:

56. * Re-torque all fasteners after 100 miles, and frequently inspect all safety critical suspension components. It is the responsibility of the installer to be sure 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.





I-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:

- o Read and understand installation instructions.
- o Contact Iron Rock Off Road with any questions before, during, or after installation.
- o Ensure that all parts are present and in good condition per attached shipping checklist!
- Have these tools handy:
 - 5/32" Allen head socket
 - o 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)

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

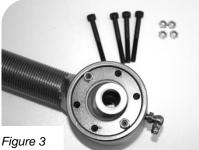
- □ 2-5/8" flex end race 91118 (2)
- Thrust washer 91119 (2)
- □ 2-5/8" flex end ball 91117 (1)
- **410-32 nylock nut (7)**
- □ #10-32 x 1-3/4" socket head cap screw (6)
- □ 90° ¼"-28 grease zerk fitting (1)

Assembly:

- 1. 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)
- 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. (Figure 2)
- 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)
- 6. Insert the second thrust washer on top of the flex end housing, sliding the bolts through the holes. (Figure 3)
- 7. Start nylock nuts on the two bolts that are in the flex end assembly. Hold the nut and turn the bolt.
- 8. Insert the remaining four cap screws through the remaining holes and install nuts. (Figure 4)
- 9. Snug up all of the bolts fairly tight.
- 10. 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.
- 11. 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 Fig













- o 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 handy:
 - o 9/64" Allen head socket
 - o 3/8" open end wrench
 - o Inch-lb. torque wrench
 - o Multipurpose grease/grease gun

Parts Checklist:

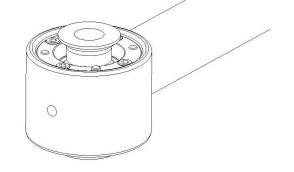
Outer housing, weld on (may already be attached to your existing control arm)

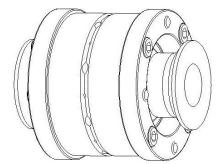
#168 - 2-3/8" IRO Flex End (8 bolt)

- Inner race 91139 (2)
- Thrust washer 91138 (2)
- Ball 91140 (1)
- \square #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)

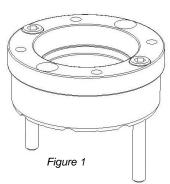


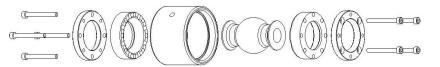
- 1. Insert two #8-32 socket head cap screws into one thrust washer and one plastic race. Spherical bore of race facing away from thrust washer. (Figure 1)
- 2. Install this small assembly into the flex end housing. The races are a light press fit, use a wide punch and hammer to assist you if needed.
- 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)
- 6. Insert the second thrust washer on top of the flex end housing, aligning the bolts with the threaded holes.
- 7. 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.
- 9. Snug up all of the bolts fairly tight. Go back and forth, rechecking each bolt several times to ensure even clamping.
- 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.





Reference Only Complete joint shown fully assembled without housing







· · · · · · · · ·

1

Jene a

0.

Fits All Iron Rock Off Road Long Arm Systems and Build Your Own Flex End Assemblies. Parts Checklist:

Optional: 10676	 #140 - 2" Flex Joint 8-Bolt 10mm Weld-on (1) End cap 91124 (2) Race 91123 (2) 5-40 x 1-1/4" socket head cap screw (9) 3/32" Hex L key, high torque (hex plus) (1) 2" flex end ball 10mm, 8 bolt, 91121 (1) Outer housing, weld on (may already be attached to vour existing control arm) 	
Optional: 10677	 #141 - 2" Flex Joint 8-Bolt 10mm Press In (1) End cap 91124 (2) Race 91123 (2) 5-40 x 1-1/4" socket head cap screw (9) 3/32" Hex L key, high torque (hex plus) (1) 2" flex end ball 10mm, 8 bolt, 91121(1) Outer housing, press in 91078 (1) 	
Optional: 10678	 #142 - 2" Flex Joint 8-Bolt 12mm Weld-on (1) End cap 91124 (2) Race 91123 (2) 5-40 x 1-1/4" socket head cap screw (9) 3/32" Hex L key, high torque (hex plus) (1) 2" flex end ball 12mm, 8 bolt, 91122 (1) Outer housing, weld on (may already be attached to your existing control arm) 	
Optional : 10679	 #143 - 2" Flex Joint 8-Bolt 12mm Press In (1) End cap 91124 (2) Race 91123 (2) 5-40 x 1-1/4" socket head cap screw (9) 3/32" Hex L key, high torque (hex plus) (1) 2" flex end ball 12mm, 8 bolt, 91122 (1) Outer housing, press in 91078 (1) 	
Optional : 10680	 #144 - 2" Flex Joint 8-Bolt 1/2" Weld-on (1) End cap 91124 (2) Race 91123 (2) 5-40 x 1-1/4" socket head cap screw (9) 3/32" Hex L key, high torque (hex plus) (1) 2" flex end ball 1/2", 8 bolt, 91126 (1) Outer housing, weld on (may already be attached to your existing control arm 	
Optional: 10681	 #145 - 2" Flex Joint 8-Bolt 1/2" Press In (1) End cap 91124 (2) Race 91123 (2) 5-40 x 1-1/4" socket head cap screw (9) 3/32" Hex L key, high torque (hex plus) (1) 2" flex end ball 1/2", 8 bolt, 91126 (1) Outer housing, press in 91078 (1) 	

- Read and understand installation instructions.
- o Contact Iron Rock Off Road with any questions before, during, or after installation.
- o Ensure that all parts are present and in good condition per attached shipping checklist!

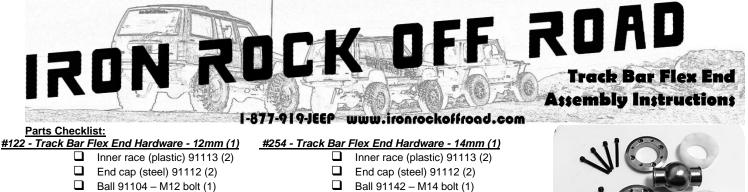
Assembly:

- 1. Install outer tube (weld on or press in).
- 2. If using the press-in replacement for OEM rubber bushings:
 - a. Remove the existing bushing using a hammer and punch. If necessary, punch the inner sleeve out first, then the rubber, then cut through the metal outer sleeve with a metal cutting blade on a Sawzall, then remove the metal outer shell.
 - b. To install the new press-in outer tube, our installation tool (sold separately) is highly recommended. See installation tool instructions for proper tool use.
 - c. If not using the Iron Rock installation tool, precaution must be taken to avoid damaging the precision machined inner surfaces. Using a bearing race and seal driver press the outer tube into the axle housing or control arm. In order to avoid damage to the precision parts, use the minimum amount of force needed to complete the job. Ensure the tube is fully seated in place. Using a hammer and punch (3/8" diameter punch warks well) hand the thin edge on the flav and tube autward to lead to the place. Using a hammer and punch (3/8" diameter punch warks well) hand the thin edge on the flav and tube autward to lead to be place.
 - works well), bend the thin edge on the flex end tube outward to lock it in place. (Use roughly 3/8" wide bends in two places.)
- 3. Insert two 5-40 socket head cap screws into one end cap and one race. Spherical bore of race facing away from end cap.
- 4. Install this small assembly into the flex end housing. The races are a tight fit, use a hammer and a wide punch to assist you if needed.
- 5. Apply a thin coating of multi-purpose grease to the mating surfaces of the ball and both races.
- 6. Place the ball in the race (inside the flex end). The ball should perfectly fit the contour of the race.
- 7. Insert the other race onto the ball so that the spherical bore is contacting the ball. Once again, the races are a tight fit, use a hammer and wide punch if needed. (The two screws should be through one washer and both races at this point).
- 8. Insert the second end cap in the flex end housing, sliding the bolts through the holes.
- 9. Start threading the two bolts that are in the flex end assembly.
- 10. Insert the remaining six cap screws through the remaining holes.
- 11. Snug up all of the bolts fairly tight.
- 12. Torque bolts evenly starting at one bolt using a crisscross pattern, like torquing lug nuts. Torque all eight bolts to 20 in/lbs.









screw (9) 3/32" Hex L key, high torgue (hex plus) (1)

#5-40 x 1 1/4" Socket head cap

- - Ball 91142 - M14 bolt (1)
 - #5-40 x 1 1/4" Socket head cap screw (9)
 - 3/32" Hex L key, high 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. 0 0
 - 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! 0
- Ensure that you have high strength threadlocker (such as red Loctite) and multi-purpose grease. 0

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. 1.
- 2. Insert four socket head cap screws into one end cap and one race. (Race should have spherical bore facing 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.
- 4 Apply a thin coat of multi-purpose grease to the ball and the spherical mating surface of the races. Coat both 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, 6. 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 7. (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. 9.
- 10. 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.













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~

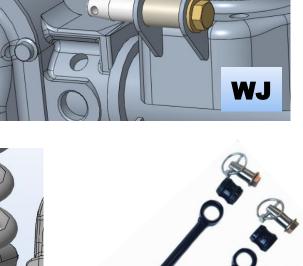
#287 – XJ Sway Bar Disconnect Hardware (1)

- 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 – TJ & ZJ 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)



and p

XJ/ZJ/TJ

Installation Instructions:

Safety Warning: *Important! Read before installation. *

J. BO

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.

<u>Notes:</u>

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.

- 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
- **C** 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:

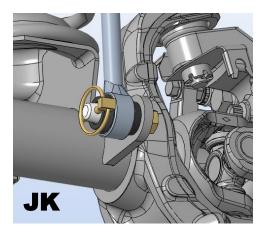
- 1. Locate the front sway bar links, bushings, and bolt sleeves.
- 2. Grease and install the hourglass bushings.
- 3. Grease and install the sway bar link inner sleeves in only one end of each link.
- 4. Raise the vehicle and secure on jack stands under the frame.
- 5. Remove the front tires.
- 6. Disconnect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

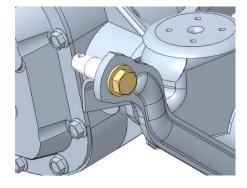
XJ Installation:

- 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.
- 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.
- Secure the sway bar link in place using the spring lynch pin.
 <u>*NOTE:</u> 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" x 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 $1/2" \times 2-1/2"$ bolt with a washer.
 - Tip: 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. <u>*NOTE:</u> The spring pin should take some effort to install. This is done on purpose to keep the link secure and noise free.
- 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. <u>*NOTE:</u> 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. <u>*NOTE:</u> 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 <u>must be disconnected</u>. 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.



