



INSTALLATION INSTRUCTIONS

Product: Flex Connect Sway Bar Link System
Part Number: PAC2112K

Applications: Grand Cherokee WJ, 1999-2004 with 2-4" lift

877-533-7557 • jks@sporttruckusainc.com • www.jksmfg.com
491 W. Garfield Avenue, Coldwater, MI 49036

Welcome

CONGRATULATIONS on purchasing the Flex Connect Sway Bar System from JKS Manufacturing. We are committed to providing you with the best products available and your satisfaction is our first priority.

PLEASE READ these Installation Instructions carefully, and save them for future reference, as they contain important installation and maintenance information.

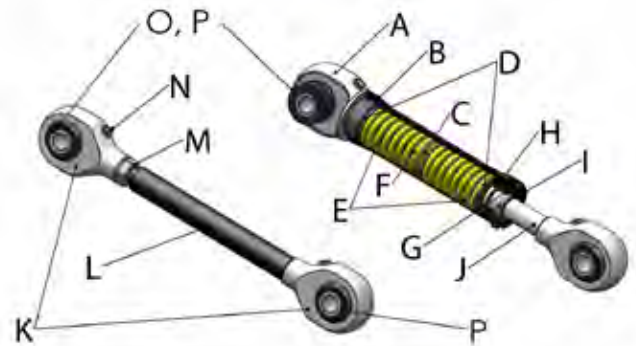
Tools Required

- Metric/Standard Socket Wrench Set
- Grease Gun with Zerk Fitting Coupler
- Wheel Bearing Grease

Parts

	Box Kit - PAC2101	QTY
A	Flex Connect Eye	1
B	Flex Connect Housing	1
C	Bushing	1
D	Spring Washer	2
E	Spring	2
F	3/8-16" Nylock Nut	1
G	Shaft Bushing	1
H	Rubber O-Ring	1
I	PTFE O-Ring	1
J	Flex Connect Shaft	1
K	Flex Eye	3
L	Sway Bar Link	1
M	Jam Nut	1
N	Grease Fitting	4
O	Spherical Bushing	2

	Box Kit - PAC2151	QTY
P	Poly Spacer	4
Q	Stainless Steel Post - Male Thread	2
R	Stainless Steel Post - Female Thread	2
S	Quick Pin	4
T	1" X 1.40" Spacer	2
U	1/2"-20 X 2-1/2" Bolt	2
V	1/2" Split Lock Washer	2
W	1/2"-20 Nylock Nut	2



WARNING

Higher Rollover Risk



Modifying your Jeep® to improve off-road performance may result in vehicle handling different than as factory equipped, including increased ride-height and/or chassis articulation; reduced lateral stability and higher risk of roll-over or other accident. Also, owner's choice of larger tire and wheel combinations may require additional braking force or increased stopping distances.

To reduce risk of serious injury and accident:

- Choose modifications that balance your actual highway & off-road use.
- Avoid sharp turns, abrupt maneuvers or steep side-cambers.
- Avoid other maneuvering conditions which may cause the vehicle to trip, roll, lose traction or compromise your ability to safely brake in an emergency.
- Routinely inspect your vehicle components for unusual wear or off-road damage. Repair or Replace any unserviceable components before use.
- Acquaint any other drivers with your vehicle modifications and handling.
- Always wear seat belts and/or appropriate off-road restraints, reduce your speed, Tread Lightly®.

Important

Designed for use the factory sway bar. Fitment and performance with aftermarket sway bars is up to the installer.

Flex Connect Link Measures 9-3/4" eye-eye. Can be installed on other applications. Fitment is up to the installer. If the links being replaced measure longer than 9-3/4" eye-eye, additional modifications may be required to avoid sway bar inversion in full droop conditions. Check link position at full suspension

droop before driving. Contact JKS tech support for additional assistance if this condition exists.

Some vehicles may require extended front brake hoses or other modifications to compensate for additional suspension travel.

Installation

- ❑ 1. REMOVE ORIGINAL EQUIPMENT (OE) SWAYBAR LINKS
 - Disconnect the sway bar links from both sides of vehicle at the axle first (15mm & 18mm).



- After both links are disconnected from the axle, pull down on the sway bar to gain access to the bolts to disconnect the sway bar links from the sway bar (18mm). If links are after market, measure eye-eye length. If they are longer than 9-3/4", see "Important Notes". Discard links and Hardware

❑ 2. LINK ASSEMBLY

- Locate the two black offset spacers (P) in box kit PAC2151. These will be used to align the Flex Connect link so that they are vertical.
- The Flex Connect and Fixed link from box kit PAC2101 will be installed with the black offset spacers in the position as shown in the picture below.



- Adjust the fixed link to be of equal length as the Flex Connect and lock off the jam nut.
- Set links aside for later installation.

IMPORTANT: Flex eyes must remain parallel with each other when the jam nut is tightened.

❑ 3. INSTALL UPPER MOUNTING POSTS

- All mounting hardware is located in box kit PAC2151.
- Locate the long stainless steel 1/2" upper tapered mounting post (Q) with the male threaded end.
- Mount the upper tapered mount post on the inboard side of they sway bar, ensuring the small Click Pin holes are horizontal or parallel with the ground.

IMPORTANT: The Flex Connect links must be mounted inboard of the sway bar for tire clearance.



- Apply medium strength threadlock to the tip of the mounting post threads.
- Secure the mounting posts to swaybar by installing 1/2" nylock nuts (W) from the outboard side and tighten to 65 ft-lbs using a torque wrench.



Hint: A small Phillips head screwdriver or punch inserted into the Click Pin hole will enable you to prevent the mounting post from rotating when tightening the nut.

❑ 4. INSTALL LOWER MOUNTING POSTS

- Locate the original lower drop link U-bracket on the axle housing. Insert the gold colored steel OE Bracket Spacer (T) into the U-bracket.

IMPORTANT: The supplied OE Bracket Spacers must be installed to prevent the U-bracket from collapsing when the mounting bolt is tightened.

- Apply medium strength threadlocker to the tip of 1/2"-20 x 2-1/2" bolt (U).
- Insert the 1/2"-20 x 2-1/2" bolt with 1/2" lock washer (V) completely through the holes in U-bracket and OE Bracket Spacers from the outboard side of the bracket.
- Thread the tapered Stainless Steel Post (R) on to the 1/2"-20 x 2-1/2" bolt from the inboard side of the U-bracket, ensuring small Click Pin holes are horizontal or parallel with the ground.



- Tighten the 1/2"-20 x 2-1/2" bolt to 65 ft-lb using a torque wrench.

Hint: A small Phillips head screwdriver or punch inserted into the Click Pin hole will enable you to prevent the tapered Stainless Steel Post from rotating when tightening the mounting bolt.

□ 5. INSTALL FLEX CONNECT LINKS

- Pull the sway bar down to gain access to the upper mounting posts.
- Retrieve the Flex Connect and Fixed links.
- Install the Flex Connect link on the passenger side and the Fixed link on the driver side. This will ensure adequate clearance throughout suspension travel.
- Slide the upper end of the Flex Connect links onto the tapered Stainless Steel Posts on both the driver and passenger sides, ensure that the spacers are in place.

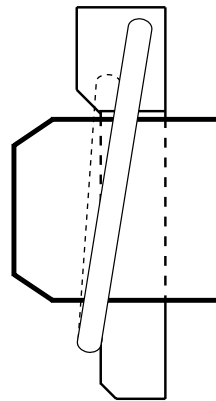


- Push the sway bar back up and slide the lower end of the Flex Connect on both the driver and passenger sides onto the tapered Stainless Steel Posts

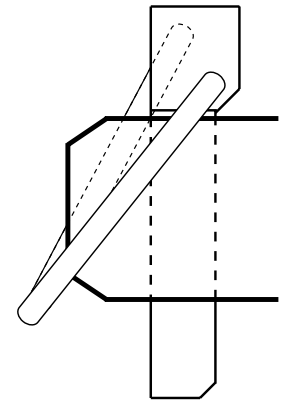


- Insert Click Pin as illustrated to secure.

CORRECT



WRONG



IMPORTANT: When properly installed, the ring on the Click Pin will "snap" against the shaft of the pin. When installed backwards, the ring does not fit snugly against shaft.

HINT: Lanyard kits (PN 2039) are sold separately to hold the sway bar up when the Flex Connect links are disconnected.

□ 6. FINAL INSTALLATION STEPS

- Check that torque on all 1/2" bolts is 65 ft-lbs.
- Lubricate all grease fittings on the link eyes immediately after installation using a grease gun and non-petroleum based grease.

Troubleshooting

If swaybar does not rotate freely, remove from vehicle, clean and apply rubber lubricant to chassis-mounted bushings, and reinstall.

Maintenance

It is important to lubricate the flex eyes frequently for the first three (3) months after installation to evacuate contaminants that may build up during break-in period.

After break-in period, the flex eyes should be lubricated regularly as part of vehicle maintenance schedule.

Regular cleaning with pressurized water is recommended to maximize ease of operation and reliability. Always lubricate afterwards to evacuate any moisture

Flex Connect Rebuild

The internal components of the Flex Connect are sealed and designed for maintenance free long term performance. These instructions are provided as a reference for the steps required to swap springs. The Flex Connect Performance Spring Kit is sold separately as part number 2100.

❑ 1. FLEX CONNECT DISASSEMBLY

These instructions are written with the assumption the customer has the assembly wrenches included in the Performance Spring Kit. If not, 2 crescent wrenches with jaw openings up to 1-1/2" can be used.

- Hold the body of the Flex Connect across the flats and loosen the Flex Connect body as shown in the Figure.

Note: A 3/8" ratchet can be inserted into the square hole in the wrench if additional leverage is required.



Note: If using a vice, put the cap in the vice jaws and use the provided wrench on the body to prevent the vice from binding on the threads.

- With the cap unthreaded, slide the shaft assembly out of the body.
- Tip the Flex Connect body up and the spring followed by the washer will fall out of the body.
- To remove the spring from the shaft, hold the shaft across the flats next to the bronze bushing and remove the nut.

Note: The wrench with the rounded opening is 1/2" across the flats for the rod and the other is 9/16" for the nut.



- Slide the spring off of the shaft.

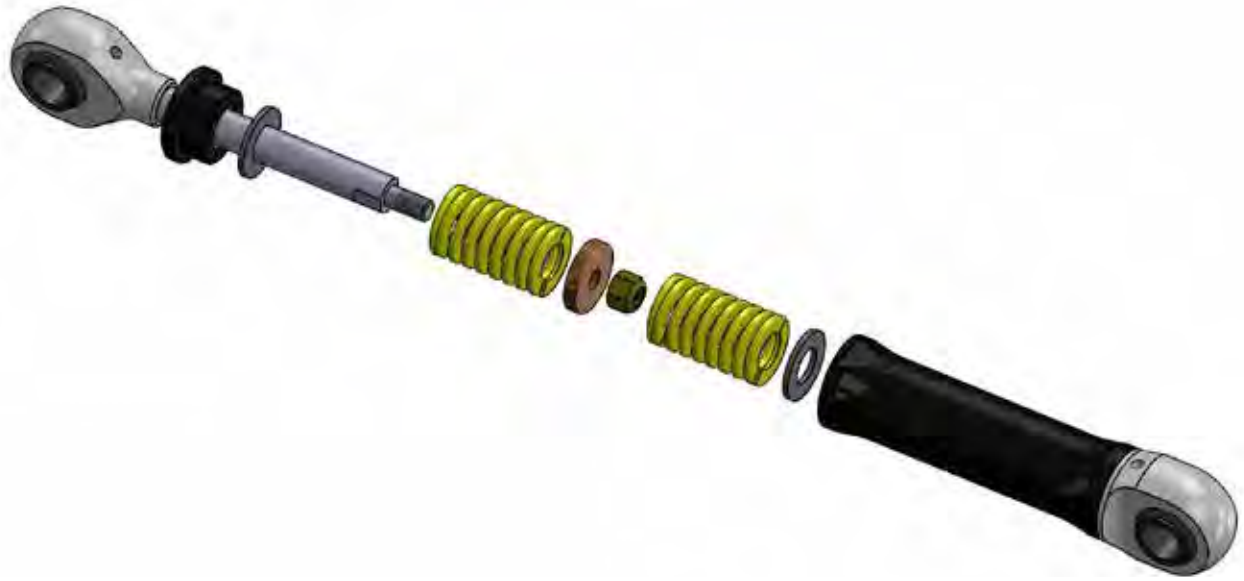
Note: The spring washer goes on the side of the spring towards the cap.

❑ 2. FLEX CONNECT ASSEMBLY

- Install the washer back into the body of the Flex Connect followed by the spring of your choosing.
- Install a matching spring onto the Flex Connect shaft followed by the bronze bushing and nut
- Torque the nut to 25 ft-lbs.

IMPORTANT: Always install matching springs into the Flex Connect. Failure to do so will create different roll stiffness depending on the direction of roll and yield undesirable handling characteristics.

- Apply grease to the bronze bushing if it was removed during disassembly
- Slide the Flex Connect shaft back into the housing and slide the cap down the shaft until the threads engage.
- Tighten the cap to approximately 25 ft-lbs.



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