



# INSTALLATION INSTRUCTIONS

**Product: Flex Connect Sway Bar Disconnect System™**  
**Part Number: PAC2111, PAC2152**

**Applications: Wrangler JK, 2007-15 with 2-5" Lift**

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## Welcome

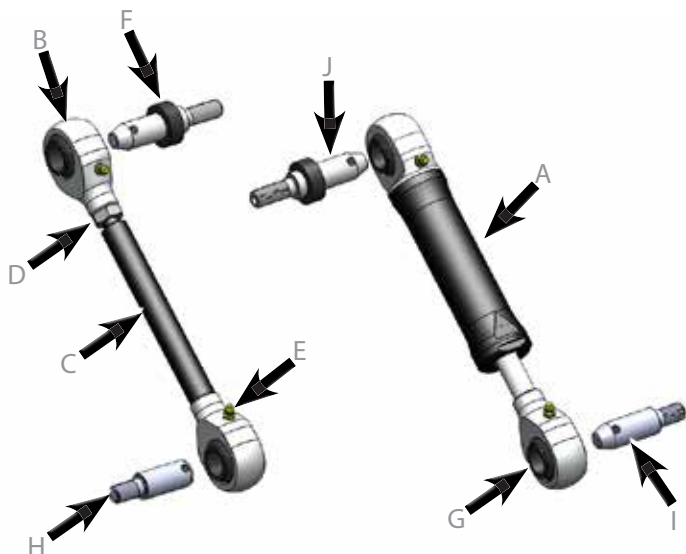
CONGRATULATIONS on purchasing the Flex Connect Sway Bar Link System from JKS Manufacturing. We are committed to providing you with the best products available and your satisfaction is our first priority.

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
- Non Petroleum Based Grease

## Parts



### PAC2111

	Description	Qty
<b>A</b>	Flex Connect Housing	1
<b>B</b>	Flex Eye	3
<b>C</b>	Sway Bar Link	1
<b>D</b>	Jam Nut	1
<b>E</b>	Zerk Grease Fitting	4
<b>F</b>	Poly Spacer	2
<b>G</b>	Spherical Bushing	4
<b>H</b>	Stainless Post - PS Lower	1
<b>I</b>	Stainless Post - Drv Lower	1
<b>J</b>	Stainless Post - Sway Bar	2
	1/2-20 Nylock Nut	4
	Click Pin	2

### PAC2152

	Description	Qty
<b>F</b>	Poly Spacer	2
<b>G</b>	Spherical Bushing	4
<b>H</b>	Stainless Post - PS Lower	1
<b>I</b>	Stainless Post - Drv Lower	1
<b>J</b>	Stainless Post - Sway Bar	2
	1/2-20 Nylock Nut	4
	Click Pin	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 the axle (18mm) and sway bar. If links are aftermarket, measure eye-eye length. If they are longer than 9-3/4", see "Important Notes". Discard links and hardware.



### **❑ 2. SWAY BAR MOUNTING POSTS**

- Locate the long stainless steel 1/2" upper tapered posts and polyurethane spacers and install the posts on the outboard side of the sway bar.

*Note: In some cases a rotary grinder may be necessary to slightly open up the sway bar hole to clear the 1/2" bolt. This ensures a tight fit.*

- Fasten the posts to the sway bar using the 1/2" nylock nuts with the click pin holes horizontal or parallel with the ground. Tighten to 65 ft-lbs.



- Note: Insert a small phillips head screwdriver or punch into the click pin hole to prevent the posts from rotating.

### ❑ 3. AXLE MOUNTING POSTS

- Locate the non-tapered post and install it to the inboard side of the axle sway bar link on the passenger side.



- Fasten the post to the mount with the 1/2" nylock nut with the click pin hole horizontal or parallel with the ground. Tighten to 65 ft-lbs.
- Install the remaining shorter tapered post to the inboard side of the drivers side axle sway bar link mount. Tighten to 65 ft-lbs.

### ❑ 4. INSTALL FIXED SWAY BAR LINK

- Adjust the fixed link to be the same length as the flex connect and lock off the jam nut. Keep the eyes in line with each other.

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

- Slide the fixed sway bar link on the outside of the sway bar on the passenger side with the poly

spacer between the sway bar and the link eye. Install the click pin.

- Slide the link onto the axle mount post and install the click pin.

### ❑ 5. INSTALL FLEX CONNECT LINK

- On the driver's side of the vehicle, slide the the large eye of the Flex Connect with the grease fittings facing forward to the outside of the sway bar with the poly spacer between the sway bar and the Flex Connect eye. Install the click pin.
- Slide the Flex Connect onto the axle post and install the click pin.

### ❑ 6. FINAL INSTALLATION STEPS

- Torque all 1/2" bolts to 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

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## 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

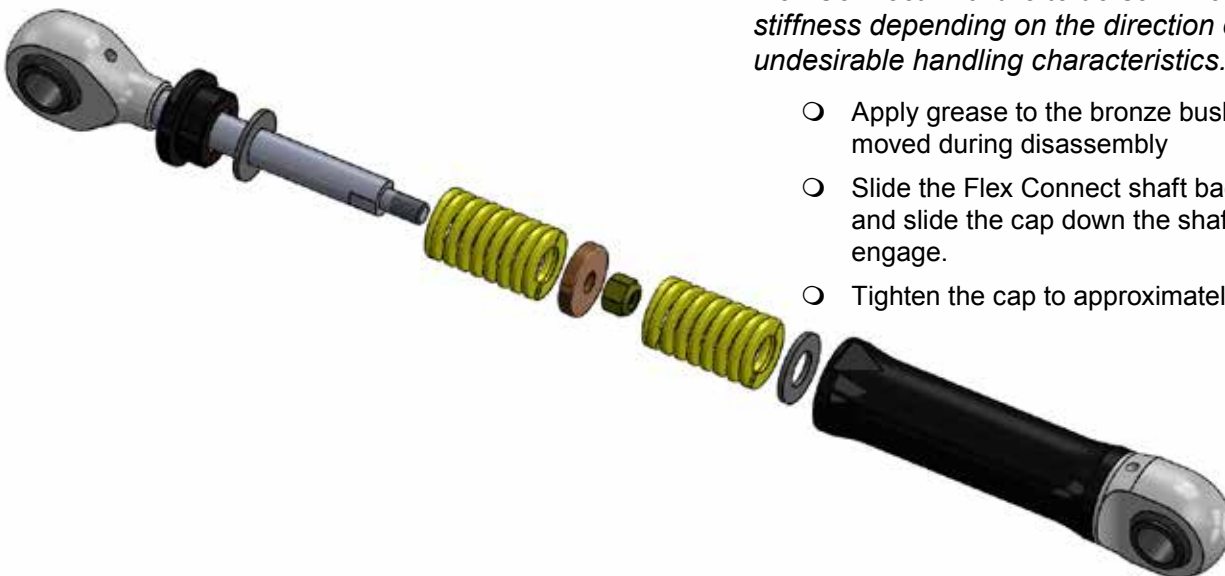
These instructions are written with the assumption the customer has the assembly wrenches included in the Performance Spring Kit. If not, 2 crescent wrenches with jaw openings up to 1-1/2" can be used.

- 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.