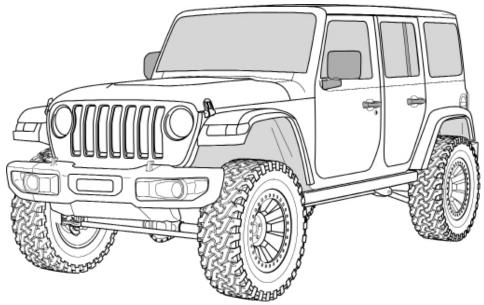


### Jeep JL 4.5" Spring Lift

www.TERAFLEX.com



### **Important Notes:**

Prior to beginning this install, or any installation, read the instructions thoroughly to familiarize yourself with the required steps. Evaluate if you are experienced and capable to personally perform these modifications. A factory service manual should be used in conjunction with these installation instructions.

This product will change the highway handling characteristics of your vehicle, exercise caution. After altering the suspension it is always advisable to have an alignment done by a competent 4 wheel drive shop or by an alignment shop that is experienced with lifted 4 wheel drive vehicles.

Refer to the parts list to ensure that all necessary components and hardware has been included. If any parts are missing please contact your local TeraFlex dealer for assistance.

NOTE: Some form of caster correction is required for the base spring lift kit

If a 37" tire is being installed on a Sport or Sahara additional up travel limit may be required using Bumpstop Spacer Kit #1959300.

A rear track bar bracket is recommended to prevent contact of the rear drive shaft and gas tank

### **Tools Needed:**

- Metric Sockets and Open End Wrenches
- Torque Wrench

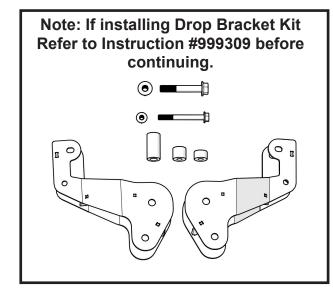
- Factory Service Manual
- General Mechanics Tools

### **Maintenance Note:**

After the first 300 miles and every 3,000 miles after that, re-torque all the suspension components and bolts.

				Alpine CT4 Sport S			t ST4	ST4 RT4			Base Spring Lift	
_		Description	Item #	4DR	2DR	4DR	2DR	4DR	2DR	4DR		
	Ph.	1 Front	02-21-401-400-1	2	-	2	-	2	-	2	-	
		FIORE	02-21-201-400-1	-	2	-	2	-	2	-	2	
		2 Rear Left	02-22-411-400-1	1	-	1	-	1	-	1	-	
			02-22-211-400-1	-	1	-	1	-	1	-	1	
		3 Rear Right	02-22-421-400-1	1	-	1	-	1	-	1	-	
	B		02-22-221-400-1	-	1	-	1	-	1	-	1	
	Transfer and	4 Front Bumpstops	12-01-109-200	2	2	2	2	-	-	2	2	
	THE WAY AND A STATE OF THE STAT	5 Rear Bumpstops	12-01-209-200	2	2	2	2	2	2	2	2	
	00000	6 Rear Bumpstop Bracket	12-02-209-002	2	2	2	2	2	2	2	2	
	0 0	Rear Bumpstop Mounting Strap	12-02-209-001	2	2	2	2	2	2	2	2	
		8 Front Bumpstop Spacers	12-02-109-050	4	4	4	4	-	-	4	4	
Box Components		Rear Bumpstop Spacers	12-02-209-050	4	4	4	4	8	8	4	4	
Comp		10 Front Swaybar link 10.75"	744500	2	2	2	2	2	2	2	2	
g Box		11 Rear Swaybar Link 11.50	21-01-001-115	2	2	2	2	2	2	2	2	
Spring		12 M10 x 1.5 Fuji Nut	23-07-03-001	6	6	6	6	6	6	6	6	
	(e)))))))))))))))))))	M10 x 1.5 x 100mm Flat Socket Cap Screw	45-04-003-001	2	2	2	2	-	-	2	2	
		M10 x 1.5 x 50mm Socket Cap Screw	45-03-003-001	4	4	4	4	4	4	4	4	
		M10 x 1.5 x 25mm Button Socket Cap Screw	45-05-003-003	4	4	4	4	4	4	4	4	
	(Constant)	16 M10 Lock Washer	45-12-002-001	4	4	4	4	4	4	4	4	
		Nut Wrench Tool	600271	1	1	1	1	1	1	1	1	
	THE STATE OF THE S	Brake Line Anchor Kit	1101255	1	1	1	1	1	1	1	1	
		Front Track Bar Bracket Kit	1953500	1	1	1	1	1	1	1	1	
	ee 0 e	Rear Track Bar Bracket Kit	1953600	1	1	1	1	1	1	1	1	
		M12 x 1.75 x 55mm Button Socket Cap Screw	45-05-003-001	2	2	2	2	2	2	2	2	
		M12 x 1.75mm Black Fuji Nut	23-07-02-002	2	2	2	2	2	2	2	2	

		Description	Item #	Alpine CT4		Sport ST4		RT4		Base Spring Lift	
				4DR	2DR	4DR	2DR	4DR	2DR	4DR	
		Jounce Bumpers Kit	1959200	1	1	1	1	-	-	-	-
		SpeedBump Bump Stop Kit 3" (All 4)	1958350	-	-	-	-	1	1	-	-
		Alpine Control Arm Kit	1310510	1	1	-	-	-	-	-	-
		Alpine IR Lower Long Arm Kit	1317001	-	-	-	-	1	1	-	-
	1000	Alpine IR Upper Long Arm Kit	1317002	-	1	1	1	1	1	-	-
Other Boxed Kits		Front Track Bar Kit	07-02-110-110	1	1	1	1	1	1	-	-
Othe		2 Door Long FlexArm Bracket Kit	1958002	-	-	-	-	-	1	-	-
		4 Door Long FlexArm Bracket Kit	1958000	-	1	1	1	1	-	-	-
		Long Arm Crossmember Reinforcement Skid Plate	4609100	-	-	-	-	1	1	-	-
		Front Drop Bracket Kit	1938125	-	-	1	1	-	-	-	-

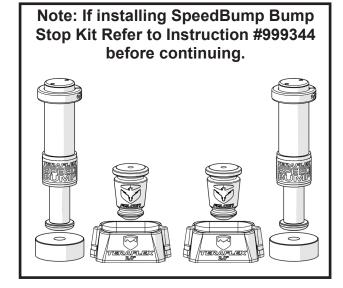


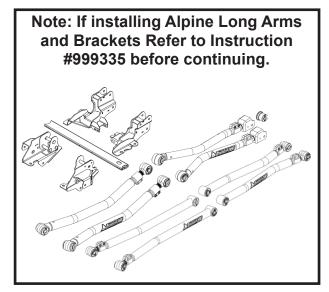


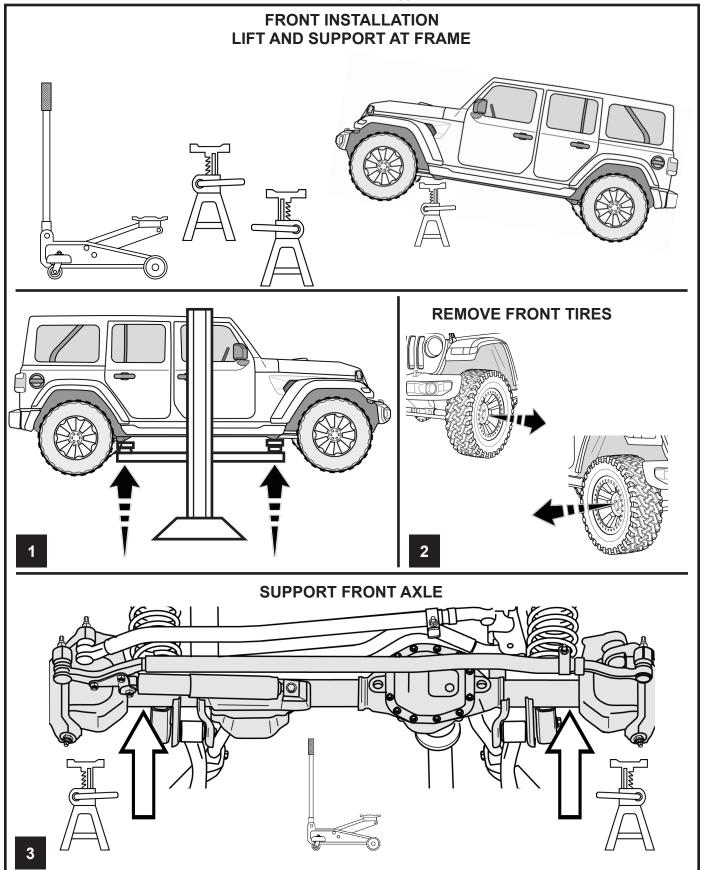
\*INSTALL CONTROL ARMS OR DROP BRACKETS WITH THE JEEP ON THE GROUND.

THE WEIGHT OF THE JEEP WILL MAKE THE INSTALLATION EASIER.\*

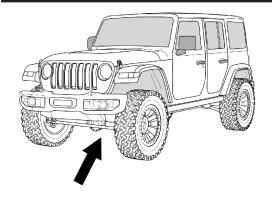
\*LEAVE CONTROL ARM BOLTS LOOSE UNTIL THE END OF THE LIFT INSTALLATION\*

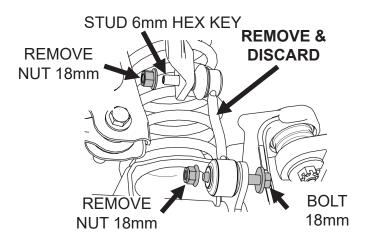




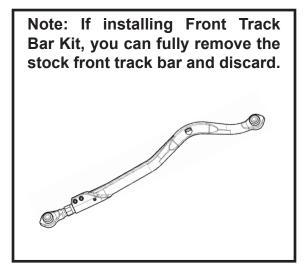


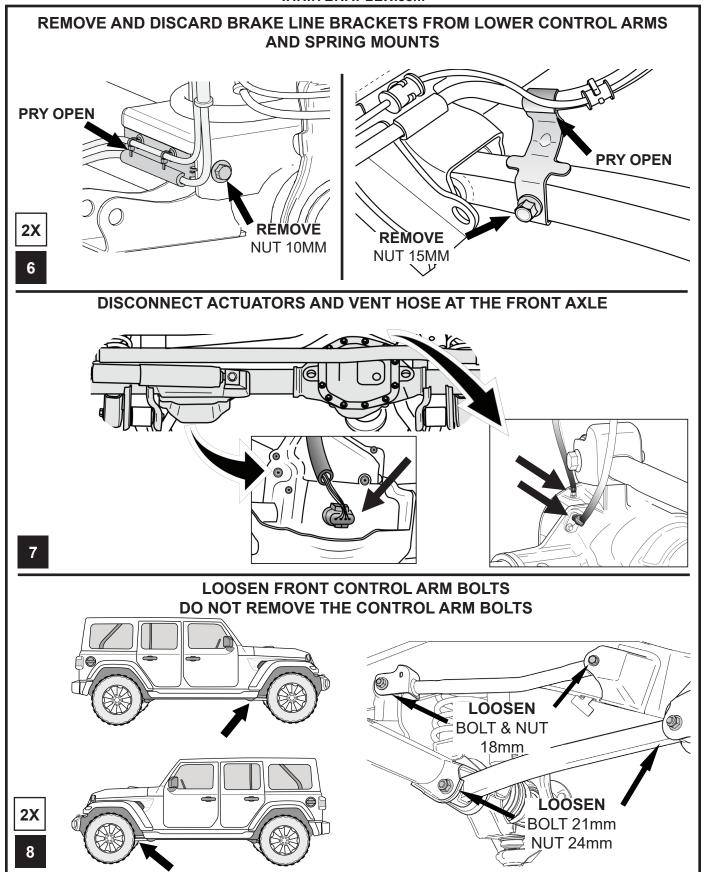
## REMOVE SWAY BAR LINKS & REMOVE TRACK BAR BOLT AT AXLE STUD 6mm NUT 18mm REMOVE & DISCARD BOLT 18mm

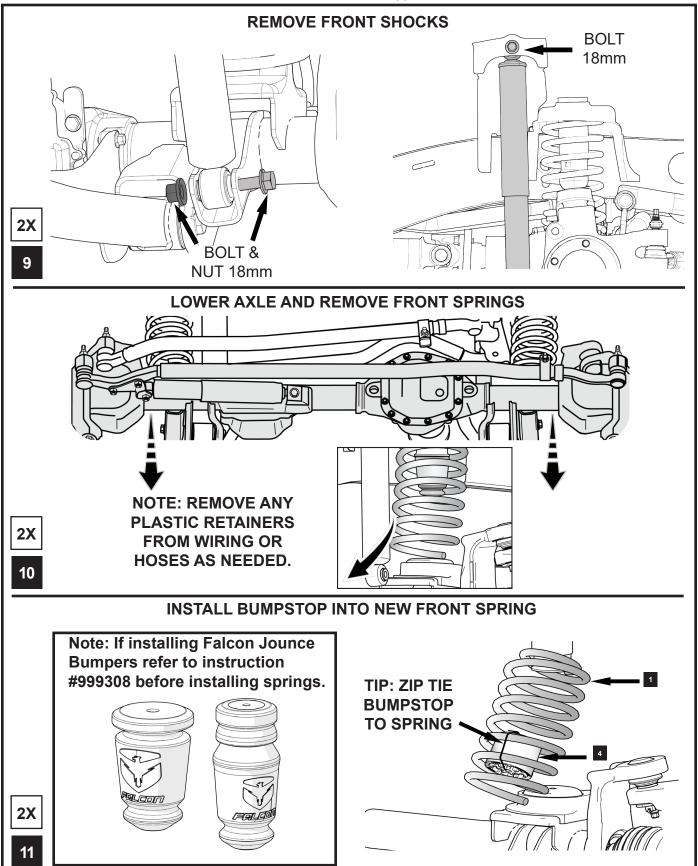


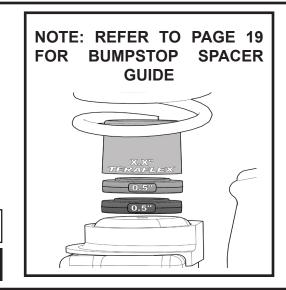


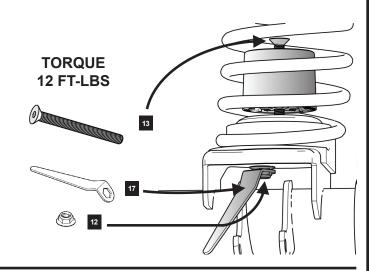
5







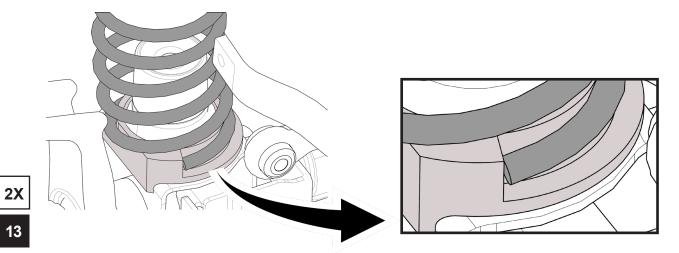




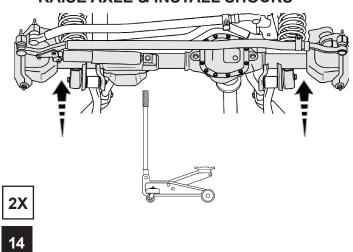
**2X** 

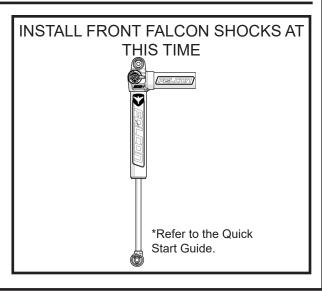
12

### FULLY SEAT THE SPRINGS INTO THE LOWER SPRING ISOLATOR



### **RAISE AXLE & INSTALL SHOCKS**

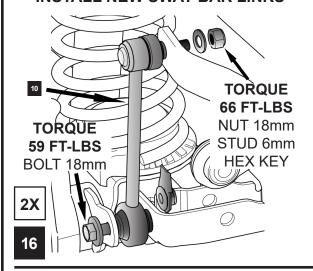




## INSTALL BRAKE LINE ANCHORS REFER ON TH LINE PRO 2X

REFER TO THE INSTRUCTIONS
ON THE BACK OF THE BRAKE
LINE ANCHOR KIT BOX FOR
PROPER INSTALLATION.

### INSTALL NEW SWAY BAR LINKS



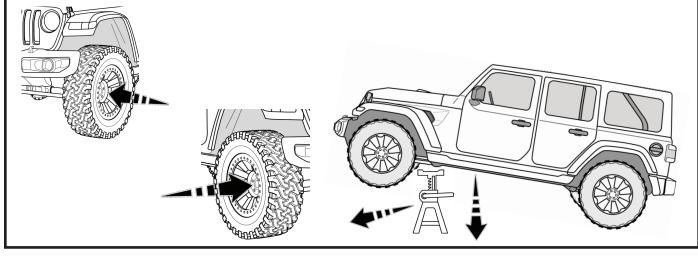
### RECONNECT CONNECTIONS TO FRONT AXLE

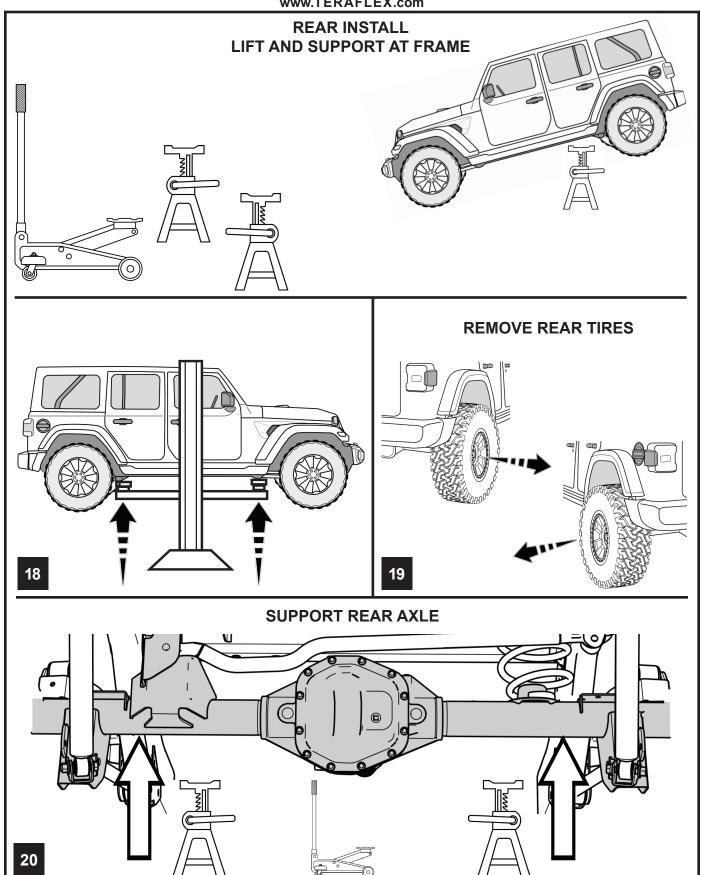


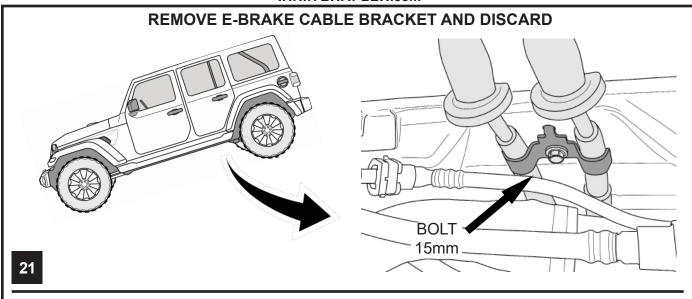
RECONNECT PLASTIC RETAINERS FROM WIRING OR HOSES AS NEEDED.

NOTE: DO NOT TIGHTEN THE CONTROL ARM BOLTS UNTIL THE JEEP IS ON THE GROUND WAIT TO INSTALL TRACK BAR UNTIL THE END OF THE LIFT KIT INSTALL.

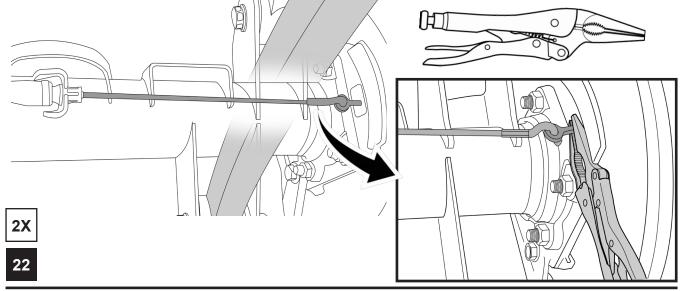
NOTE: IF ONLY FRONT OF JEEP WAS LIFTED, REINSTALL TIRES AND LOWER JEEP BACK TO THE GROUND BEFORE LIFTING THE REAR



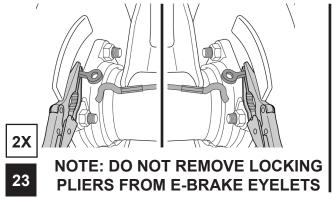


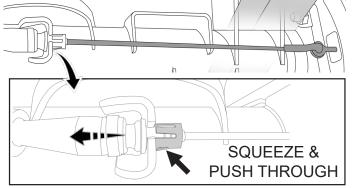


### SET THE E-BRAKE AND CLAMP BOTH E-BRAKE EYELETS AGAINST BACKING PLATES WITH LOCKING PLIERS



### RELEASE E-BRAKE AND DISCONNECT CABLES FROM BOTH EYELETS AND AXLE BRACKETS

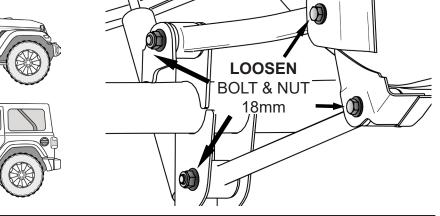




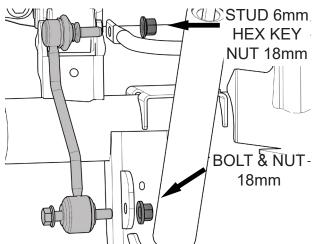
# ROUTE E-BRAKE CABLES UNDER CROSS MEMBER AND FUEL LINES. RECONNECT E-BRAKE CABLES TO THE AXLE BRACKETS AND THEN THE E-BRAKE EYLETS. REMOVE PLIERS FROM E-BRAKE EYLETS DO NOT REMOVE THE CONTROL ARM BOLTS DO NOT REMOVE THE CONTROL ARM BOLTS LOOSEN REAR CONTROL ARM BOLTS





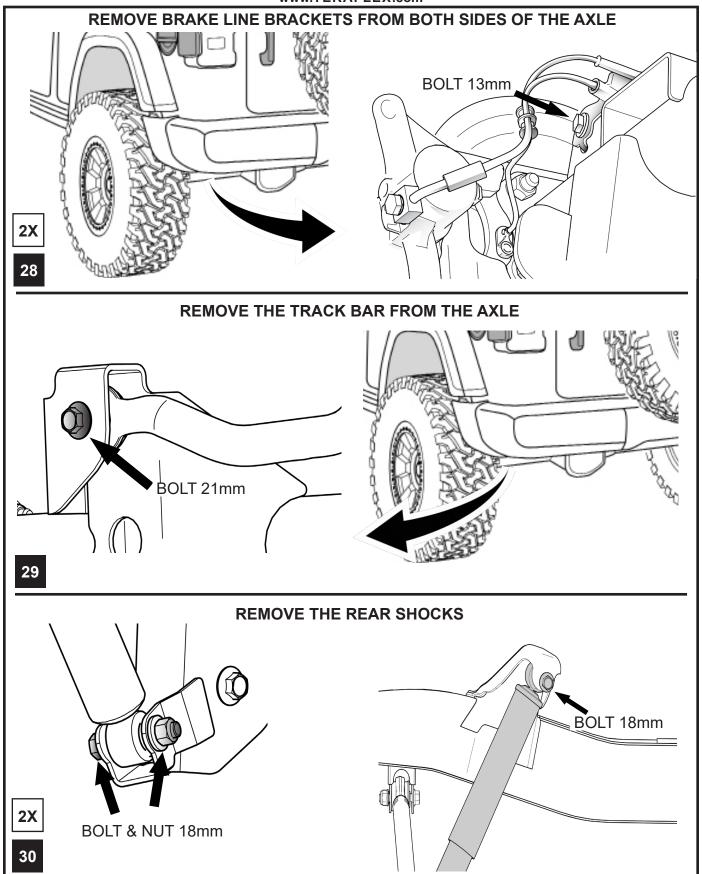


### REMOVE AND DISCARD SWAY BAR LINKS

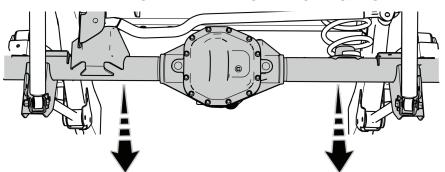


**2X** 

27



### **LOWER AXLE TO REMOVE & DISCARD REAR SPRINGS**





2X

31

NOTE: REMOVE ANY PLASTIC RETAINERS FROM WIRING OR HOSES AS NEEDED.

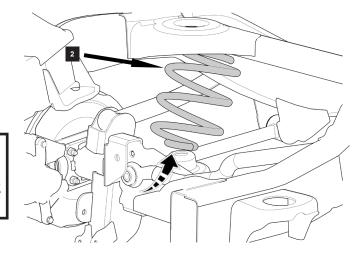
### **INSTALL NEW REAR SPRINGS**

INSTALL THE DRIVERS SIDE SPRING FIRST

LEFT REAR SPRINGS 4 DOOR: 02-22-411-400-1

2 DOOR: 02-22-211-400-1

NOTE: PAY SPECIAL ATTENTION TO INSTALL THE CORRECT SPRING ON THE CORRECT SIDE OF THE JEEP. THE REAR SPRINGS ARE SIDE SPECIFIC.

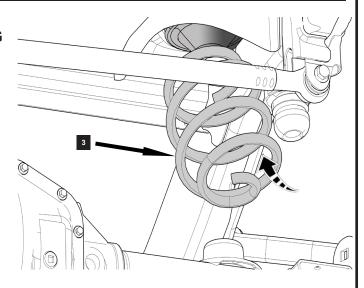


32

### INSTALL THE PASSENGERS SIDE SPRING

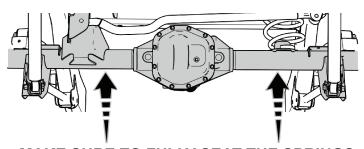
RIGHT REAR SPRINGS 4 DOOR: 02-22-421-400-1

2 DOOR: 02-22-221-400-1



33

### RAISE THE REAR AXLE AND INSTALL SHOCKS

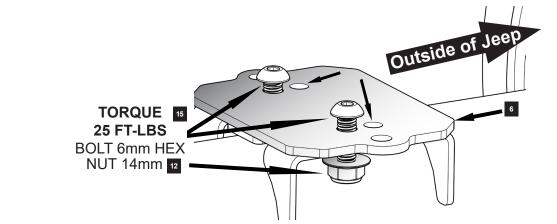


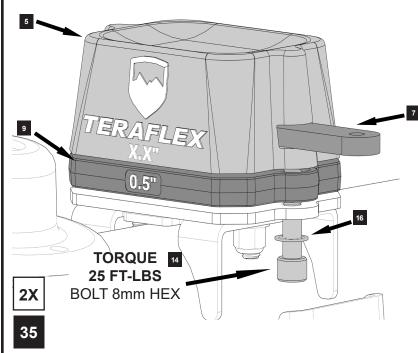
MAKE SURE TO FULLY SEAT THE SPRINGS INTO THE UPPER SPRING ISOLATOR

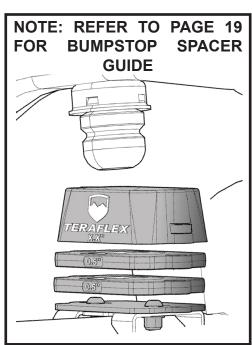
INSTALL REAR FALCON SHOCKS AT THIS TIME

\*Refer to the Quick Start Guide.

34

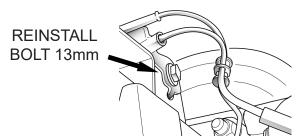




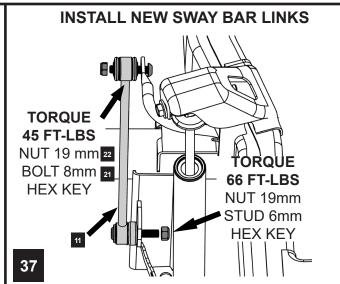


### REINSTALL AXLE BRAKE LINE BRACKETS

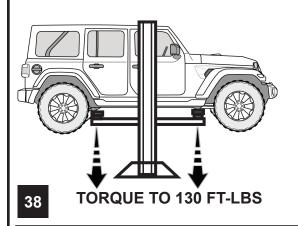
### RECONNECT PLASTIC RETAINERS FROM WIRING OR HOSES AS NEEDED

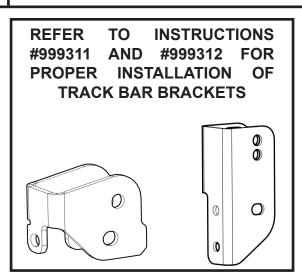


NOTE: DO NOT TIGHTEN THE CONTROL ARM BOLTS UNTIL THE JEEP IS ON THE GROUND



### REINSTALL TIRES AND LOWER TO THE GROUND



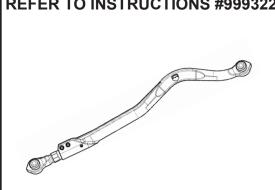


**REINSTALL TRACK BARS AND** 

TORQUE TO THE FOLLOWING SPECS

52 Ft Lbs + 155°

### NOTE: IF INSTALLING TRACK BAR, REFER TO INSTRUCTIONS #999322



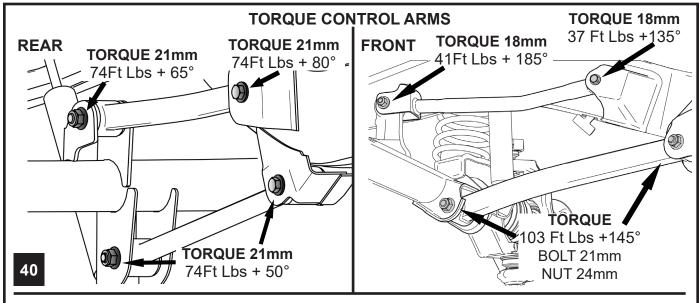
TORQUE FRONT BOLT 21mm

39

36

Revision D 999319

TORQUE REAR BOLT 21mm 74 Ft Lbs + 60°



### IL RUBICON

### JL Tire Clearance Guide (FACTORY FENDERS)

By limiting suspension up travel, TeraFlex Bump Stops allow the use of larger tires while keeping the factory fenders.

JL Rubicon models feature high-clearance fenders that allow for more up travel, while the lower-clearance fenders on JL Sport and Sahara restricts tire size due to fender rubbing.

See Notes: Not all Tires Measure the Same

JL Rubicon with Factory Fenders:

- 33" No Bump Stops
- · 35" 2" Front & 2" Rear Bump Stops





• 37" - 2.5" Front & 3" Rear Bump Stops





In order to address these fender differences, TeraFlex designed a proprietary modular bump stop system, which can be adapted to fit several different lift height and tire size configurations.

In addition to the main 2" bump stop spacers, this system includes multiple 0.5" interlocking spacers that can be added to fine tune bump stop height to limit suspension up travel.

### JL Sport/Sahara with Factory Fenders:

See Notes: Not all Tires Measure the Same

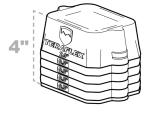
- 33" No Bump Stops
- 35" 3" Front & 2.5" Rear Bump Stops

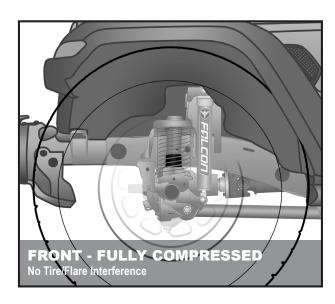


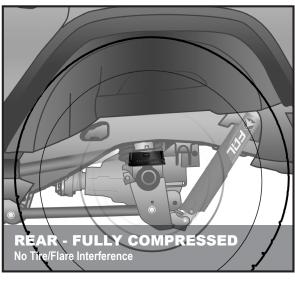


• 37" - 3.5" Front & 4" Rear Bump Stops

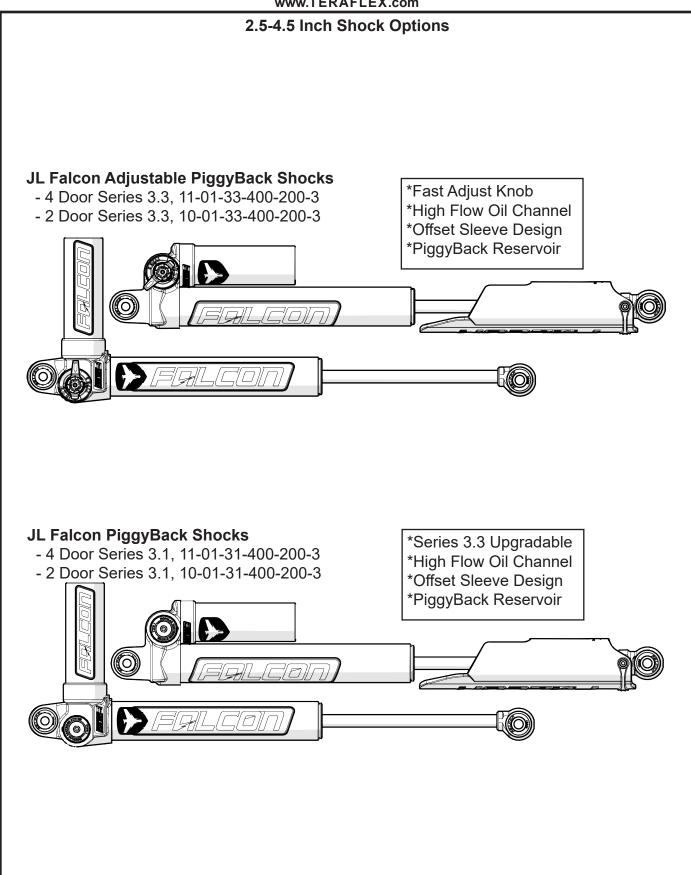








JL/JLU Strike Pad Shim (Front & Rear) 1959300 \$59.99





### PRODUCT INFORMATION

### **MAINTENANCE INFORMATION:**

It is the buyer's responsibility to have all suspension, drivetrain, steering, and other components checked for proper tightness and torque after the first 100 miles and every 3000 miles after that.

### NOTICE TO INSTALLER:

The enclosed "Warning to Driver" sticker must be installed in the vehicle in driver's view. This sticker is to act as a constant safety reminder when operating the vehicle. It is your responsibility as the equipment installer to install the provided sticker and to forward the product instructions to the vehicle's owner for review. If a "Warning to Driver" sticker or product installation guide were not included in the kit, FREE replacement stickers and instructions are available by request. It is the installer's duty to ensure a safe and controllable vehicle after the modifications have been performed.

### WARNING:

Neither the seller nor the manufacturer will be liable for any loss, damage, or injury directly or indirectly arising from the use of or inability to determine the use of these products. Before using, the user shall determine the suitability of the products for its intended use, and the user shall assume all responsibility and risk in connection therewith.

### WARNING TO DRIVER:

This vehicle has been modified to enhance off road performance and has unique handling characteristics. Use in harsh environments can cause extreme stress on the components. Vehicle should be inspected after being off road to make sure that all the components are in working order and safe to travel on the highway. All fasteners should be checked so that they are at the correct torque specifications as the vibration and stresses from off roading may cause critical fasteners to work loose. Extra care should be taken to inspect the critical components, steering, and brake systems. During each oil change components such as arms, tie rod ends, etc should be greased and checked for excessive wear. Any worn components should be replaced. When returning to the pavement always set or restore tire air pressure to the factory recommendation and connect or engage any disabled sway bar mechanisms. Because of the higher center of gravity and larger tires, this vehicle handles and reacts differently than many passenger cars, both on and off road. You must drive it safely! Extreme care should be taken to prevent vehicle rollover or loss of control, which can result in serious injury or death. Avoid sudden sharp turns or abrupt maneuvers. Generally, braking performance and capabilities are decreased when significantly larger/heavier tires are used, especially when used in combination with transfer case low-range reduction kits. Take this into consideration while driving. Do not add, alter or fabricate any factory or aftermarket parts to increase vehicle height over the intended height of the TeraFlex product purchased. Mixing component brand is not recommended. TeraFlex Inc. will not be responsible for any altered product or any improper installation or use of our products. We will be happy to answer any questions concerning the design, function, and correct use of our products. It is ultimately the buyer's responsibility to have all bolts/nuts checked for tightness after the first 100 miles and then every 3000 miles. Wheel ali

### TERAFLEX PRODUCT WARRANTY:

TeraFlex Inc. warrants TeraFlex Suspension products to the original retail purchaser to be free of defects in material and workmanship for as long as the original purchaser owns the vehicle on which products were originally installed.

Failure to complete regular maintenance (grease every 3000 miles) on TeraFlex FlexArms will void this warranty. All other conditions of the standard TeraFlex product warranty apply.

All TeraLow products are covered by the TeraFlex two (2) year warranty to be free of defects in material and workmanship for two years from date purchased.

TeraFlex axles are covered by a 12-month warranty to be free of defects in materials and workmanship.

This warranty does not cover or include product finish, improperly installed or applied products, improperly maintained products, products or components used for racing or competition or damage due to abuse or neglect, products that fail due to the use of larger tire and wheel combinations.

All returns must be accompanied by an original invoice. It is the customer's responsibility to remove the product from the vehicle. Shipping charges are the responsibility of the customer. TeraFlex Inc. will pay the return freight if the product meets the terms of warranty.

This warranty is for the replacement or repair of defective TeraFlex products only and does not include freight charges, labor charges for removal of or installation of TeraFlex or related products or components, costs incurred due to down time of the vehicle, or lost profits due to vehicle down time. A returned goods authorization number (RGA#) must accompany any returned products. For more information please contact a TeraFlex customer service representative.

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