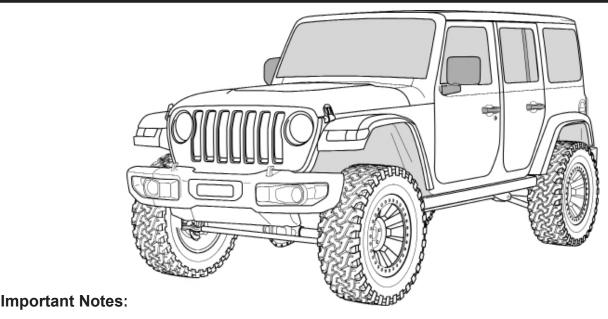


# Jeep JL 3.5" Spring Lift

www.TERAFLEX.com



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
- Drill and 1/2" Drill Bit

- 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.

				Alpin	Alpine CT3		Sport ST3		RT3		e Kit
		Description	Item #	4DR	2DR	4DR	2DR	4DR	2DR	4DR	2DR
		1 Front	02-21-401-250-1	2		2	-	2		2	-
	No car of the	1 TOTAL	02-21-201-250-1	-	2	-	2		2	-	2
		2 Rear Left	02-22-411-250-1	1	-	1	-	1	-	1	-
		Z Real Left	02-22-211-250-1	-	1	-	1	-	1	ı	1
		3 Rear Right	02-22-421-250-1	1	-	1	-	1	-	1	-
			02-22-221-250-1	-	1	-	1	-	1	-	1
	Passes Passes	4 Front Bumpstops	12-01-109-200	2	2	2	2	-	-	2	2
	THERAPLEST B	5 Rear Bumpstops	12-01-209-200	2	2	2	2	-	-	2	2
	00 00	Rear Bumpstop Bracket	12-02-209-002	2	2	2	2	-	-	2	2
(0)	0 0	Rear Bumpstop Mounting Strap	12-02-209-001	2	2	2	2	-	-	2	2
Spring Box Components		Front Bumpstop Spacers	12-02-109-050	4	4	4	4	-	-	4	4
3ox Con		Rear Bumpstop Spacers	12-02-209-050	4	4	4	4	-	-	4	4
oring E		11 Front Swaybar link 10.75"	744500	2	2	2	2	2	2	2	2
S		12 Rear Swaybar Link 11.50	21-01-001-115	2	2	2	2	2	2	2	2
		13 M10 x 1.5 Fuji Nut	23-07-03-001	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
		M10 x 1.5 x 25mm Button Socket Cap Screw	45-05-003-003	4	4	4	4	-	-	4	4
	Care	M10 Lock Washer	45-12-002-001	4	4	4	4	-	-	4	4
		Nut Wrench Tool	600271	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

				Alpin	e CT3	Sport ST3		RT3		Base	e Kit
		Description	Item #	4DR	2DR	4DR	2DR	4DR	2DR	4DR	2DR
(0)	21	Front Track Bar Bracket	15-04-109-006	1	1	1	1	1	1	1	1
Components	22	M12 x 1.75 Flanged Serrated Nut	45-12-003-001	1	1	1	1	1	1	1	1
Spring Box Com	23	M14 x 2.0 x 80mm Hex Flange Bolt	45-02-003-011	1	1	1	1	1	1	1	1
	24	M12 x 1.75 x 25mm Hex Flange Bolt	45-02-003-013	2	2	2	2	2	2	2	2
	25	M12 X 1.75 Flange Top Lock Nut	45-08-003-001	1	1	1	1	1	1	1	1
	26	M14 x 2.0 Flange Top Lock Nut	45-08-003-003	1	1	1	1	1	1	1	1

			Alpin	e CT3	Sport ST3		RT3		Bas	e Kit
	Description	Item #	4DR	2DR	4DR	2DR	4DR	2DR	4DR	2DR
Other Boxed Kits	Brake Line Anchor Kit	1101255	1	1	1	1	1	1	1	1
	Jounce Bumpers Kit	1959200	1	1	1	1	1	1	ı	1
	Alpine Control Arm Kit	1416610	1	1	ı	ı	1	1	1	1
	Front Arm Drop Bracket Kit	1938125	-	-	1	1	-	-	-	-
	Alpine IR Control Arm Kit	1416510	-	-	-	-	1	1	-	-
	SpeedBump Kit 2"	1958352	-	-	-	-	1	1	-	-
	Rear Track Bar Kit	1953600	1	1	1	1	1	1	1	1
	Front Track Bar	1753420	-	-	-	-	1	1	-	-

#### \*NOTES\*

\*FOR ALPINE & ALPINE IR CONTROL ARM KITS: Refer to Instruction #999321 before continuing.

-CONTROL ARMS WITH BUSHINGS Can be torqued with the Jeep raised in the air.



\*FOR SPORT CONTROL ARM KITS: Refer to Instruction #999325 before continuing.



\*FOR SPEEDBUMP KITS: Refer to Instruction #999329 before continuing.



\*FOR FRONT TRACK BAR: Refer to Instruction #999340 before continuing.

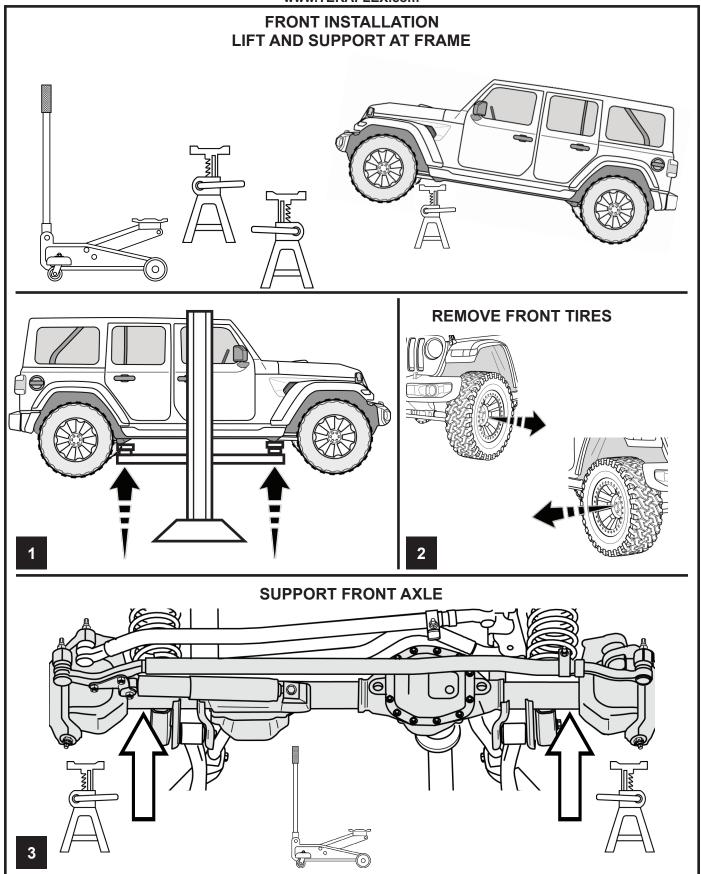


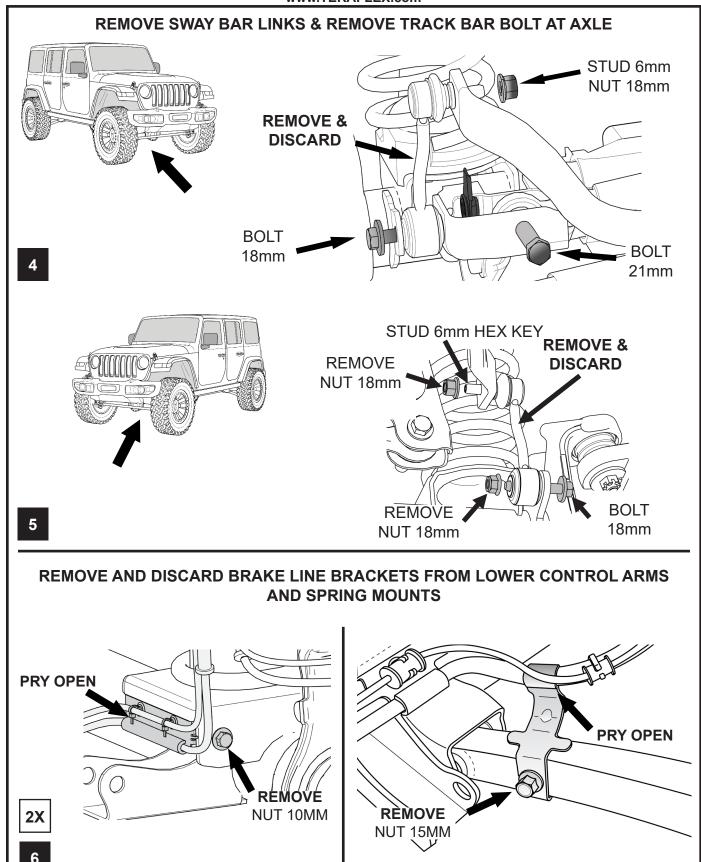
\*FOR REAR TRACK BAR BRACKET: Refer to Instruction #999311 before continuing.

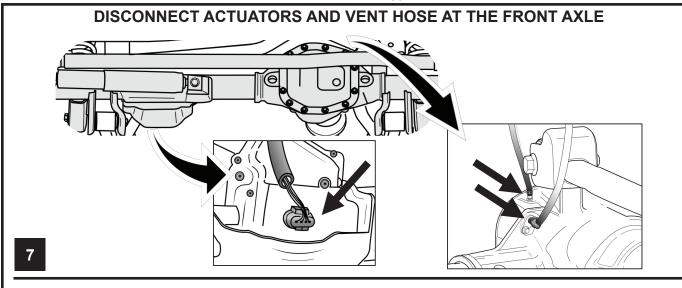


\*FOR FRONT DROP BRACKET KITS: Refer to Instruction #999309 before continuing.

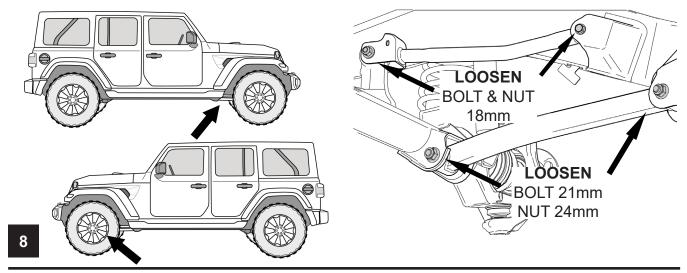




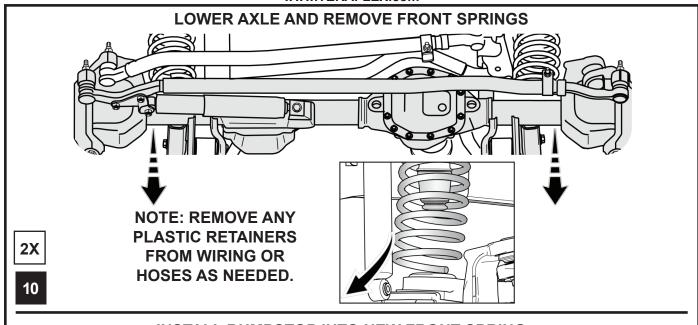




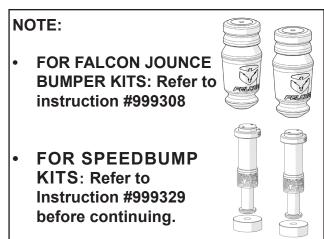
# LOOSEN FRONT CONTROL ARM BOLTS DO NOT REMOVE THE CONTROL ARM BOLTS

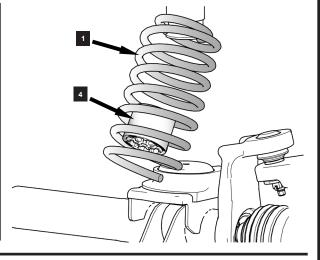


# REMOVE FRONT SHOCKS BOLT 18mm PORT OF THE PROVIDENCE OF THE PROV



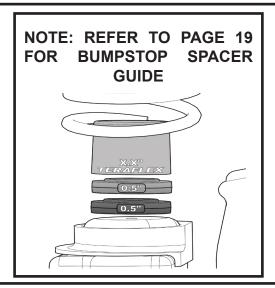
#### **INSTALL BUMPSTOP INTO NEW FRONT SPRING**

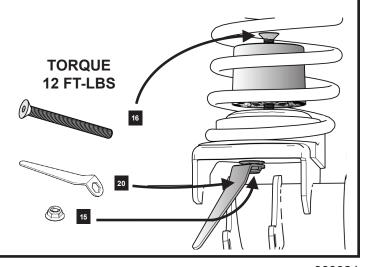




2X

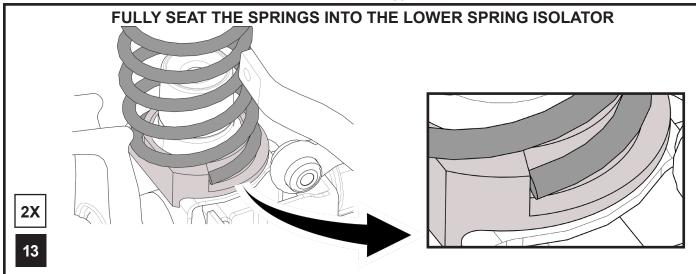
11



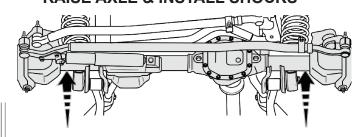


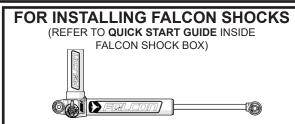
2X

12



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





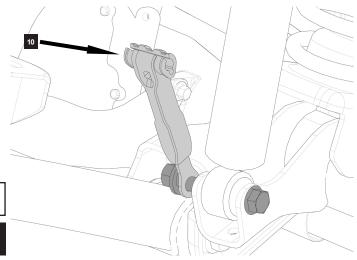
NOTE: IF INSTALLING CONTROL ARMS WITH ALPINE BUSHINGS, AND THE JEEP WAS RAISED FOR INSTALLATION, LOWER THE JEEP TO THE GROUND AND FINISH INSTALLATION BY TORQUING THE CONTROL ARM BOLTS.

2X

14

NOTE: IF INSTALLING CONTROL ARMS WITH ALPINE IR BUSHINGS
THE CONTROL ARMS CAN BE TORQUED WITH THE JEEP RAISED IN
THE AIR. REFER TO PAGE 18 FOR TORQUE SETTINGS

#### **INSTALL BRAKE LINE ANCHORS**

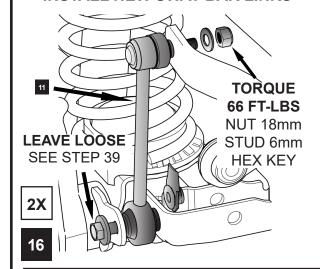


REFER TO THE INSTRUCTIONS ON THE BACK OF THE BRAKE LINE ANCHOR KIT BOX FOR PROPER INSTALLATION.

2X

15

#### **INSTALL NEW SWAY BAR LINKS**



#### RECONNECT CONNECTIONS TO FRONT AXLE



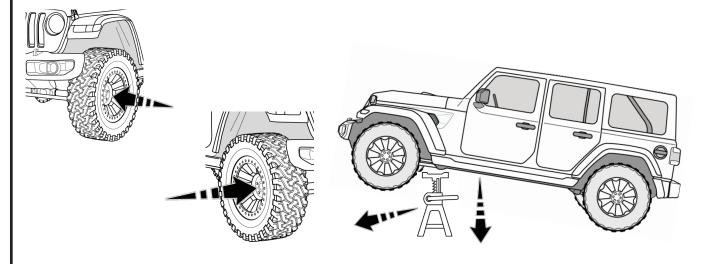
RECONNECT PLASTIC RETAINERS FROM WIRING OR HOSES AS NEEDED.

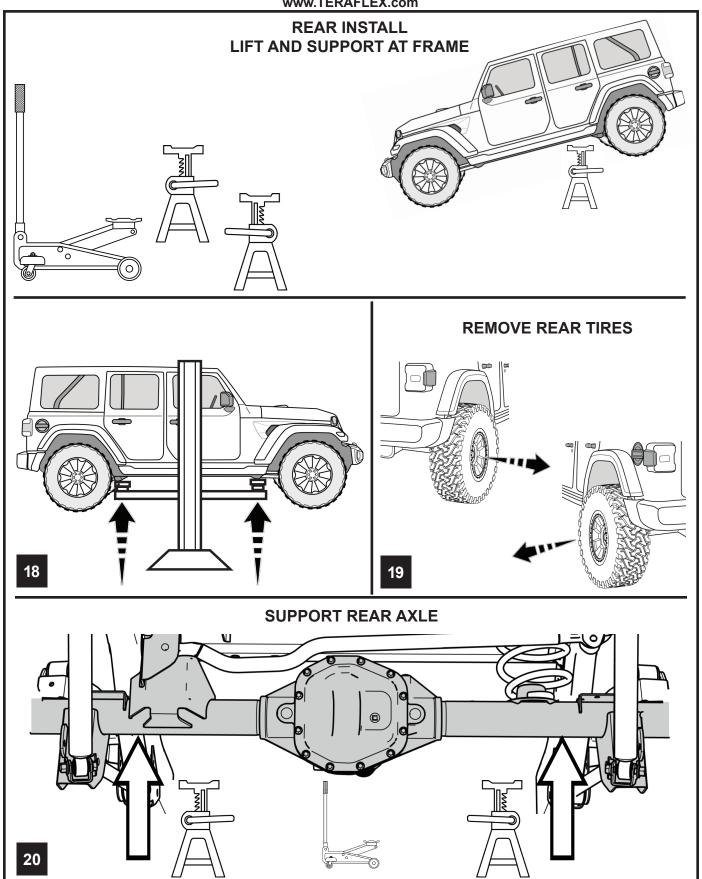
NOTE: DO NOT TIGHTEN THE CONTROL ARM BOLTS UNTIL THE JEEP IS ON THE GROUND

17

WAIT TO RE-INSTALL TRACK BAR UNTIL THE END OF THE LIFT KIT INSTALL.

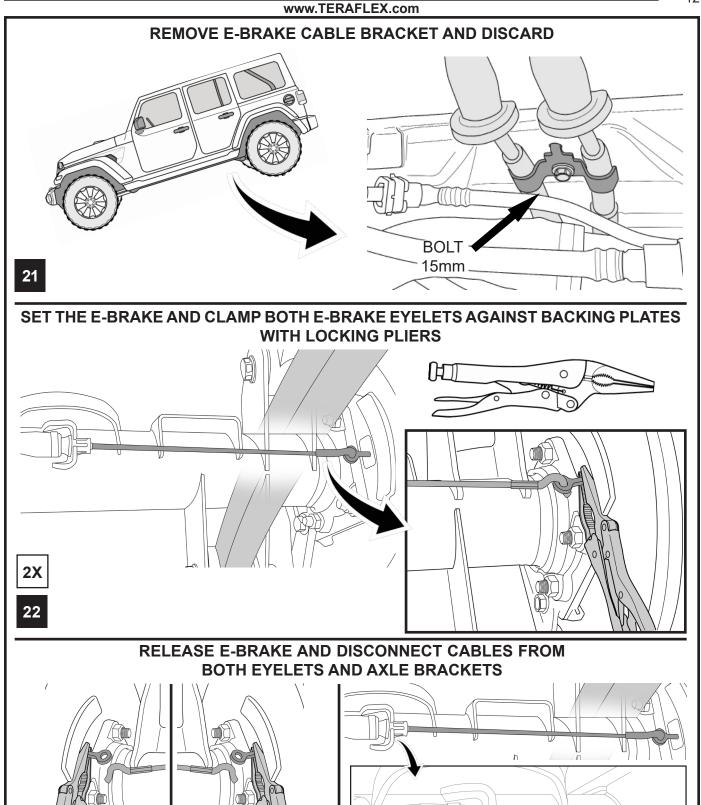
NOTE: IF ONLY FRONT OF JEEP WAS LIFTED, REINSTALL TIRES AND LOWER JEEP BACK TO THE GROUND BEFORE LIFTING THE REAR





SQUEEZE &

**PUSH THROUGH** 



Revision H 999324

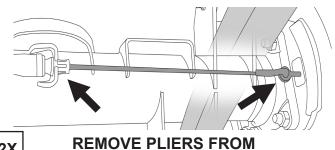
NOTE: DO NOT REMOVE LOCKING

PLIERS FROM E-BRAKE EYELETS

**2X** 

# ROUTE E-BRAKE CABLES UNDER CROSS MEMBER AND FUEL LINES.

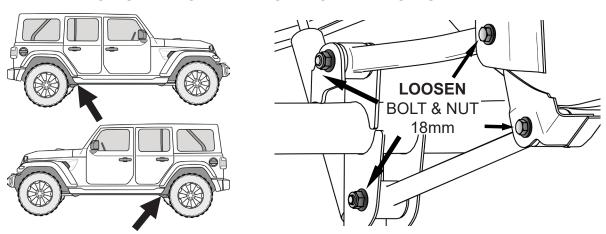
# RECONNECT E-BRAKE CABLES TO THE AXLE BRACKETS AND THEN THE E-BRAKE EYLETS.



2X REMOVE PLIERS FROM E-BRAKE EYLETS

#### LOOSEN REAR CONTROL ARM BOLTS

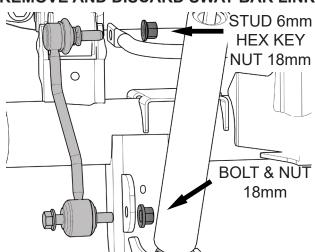
#### DO NOT REMOVE THE CONTROL ARM BOLTS



2X

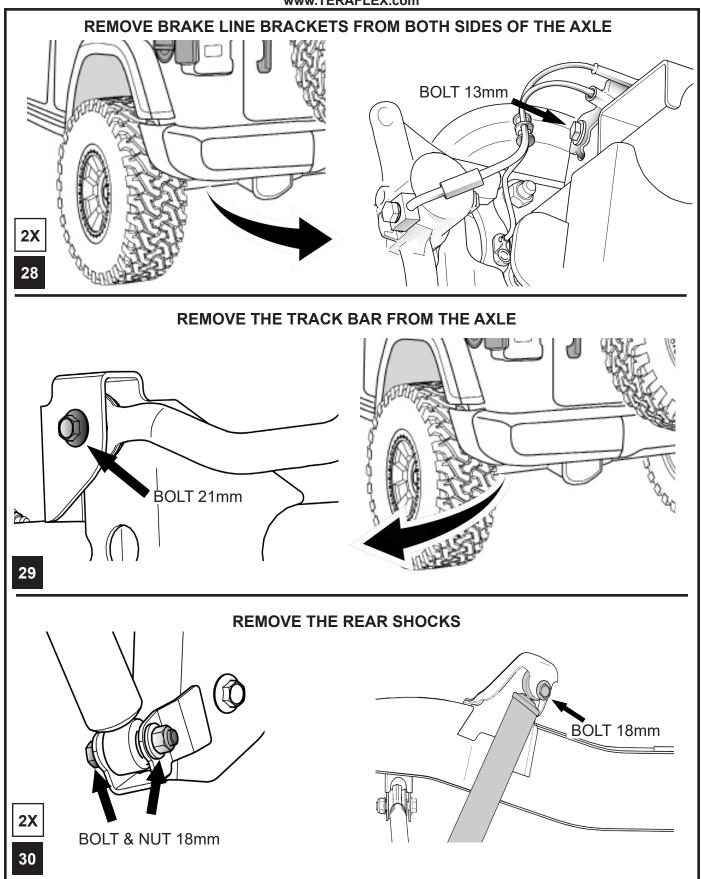
26

#### **REMOVE AND DISCARD SWAY BAR LINKS**

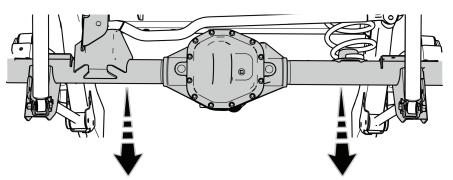


2X

27



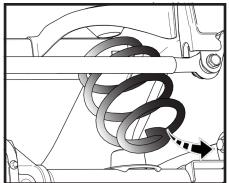
#### **LOWER AXLE TO REMOVE & DISCARD REAR SPRINGS**



2X

31

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

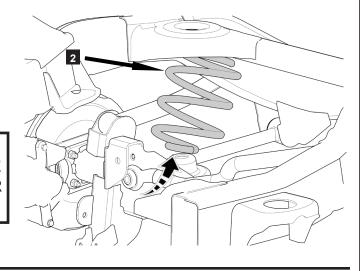


#### **INSTALL NEW REAR SPRINGS**

INSTALL THE DRIVERS SIDE SPRING FIRST

LEFT REAR SPRINGS 4 DOOR: 02-22-411-250-1 2 DOOR: 02-22-211-250-1

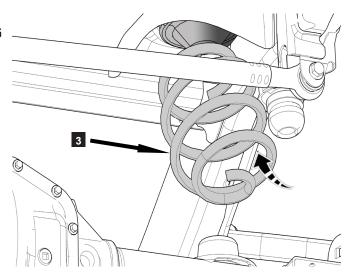
NOTE: PAY SPECIAL ATTENTION TO INSTALL THE CORRECT SPRING ON THE CORRECT SIDE OF THE JEEP. THE REAR SPRINGS ARE SIDE SPECIFIC.



32

#### INSTALL THE PASSENGERS SIDE SPRING

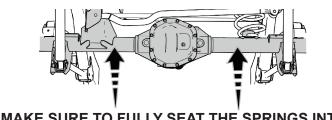
RIGHT REAR SPRINGS 4 DOOR: 02-22-421-250-1 2 DOOR: 02-22-221-250-1



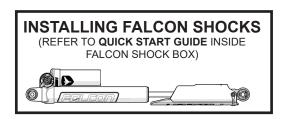
**2X** 

33

#### RAISE THE REAR AXLE AND INSTALL SHOCKS





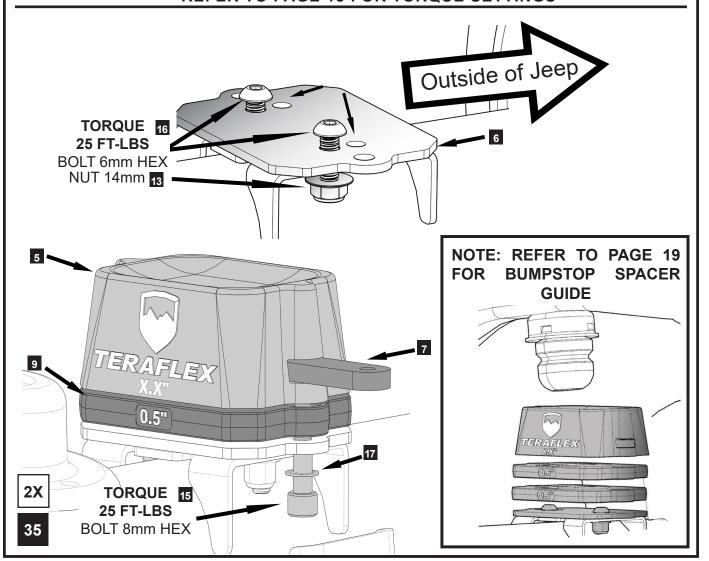


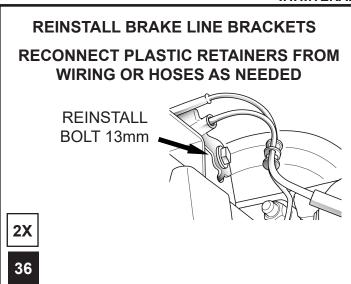
NOTE: IF INSTALLING CONTROL ARMS WITH ALPINE BUSHINGS, AND THE JEEP WAS RAISED FOR INSTALLATION, LOWER THE JEEP TO THE GROUND AND FINISH INSTALLATION BY TORQUING THE CONTROL ARM BOLTS.

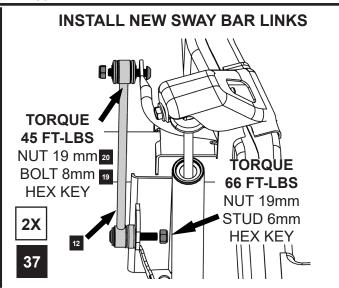
34

NOTE: IF INSTALLING CONTROL ARMS WITH ALPINE IR BUSHINGS THE CONTROL ARMS CAN BE TORQUED WITH THE JEEP RAISED IN THE AIR.

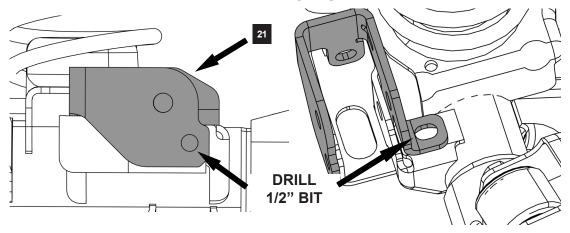
REFER TO PAGE 18 FOR TORQUE SETTINGS



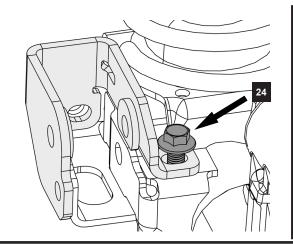


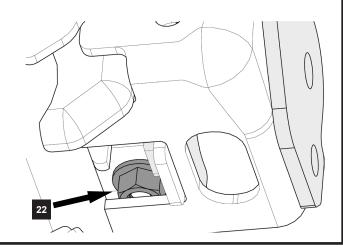


SLIDE THE FRONT TRACK BAR BRACKET INTO PLACE AND MARK THE FRONT AND REAR HOLES THAT NEED TO BE DRILLED. ONCE MARKED REMOVE THE BRACKET AND DRILL THE HOLES.



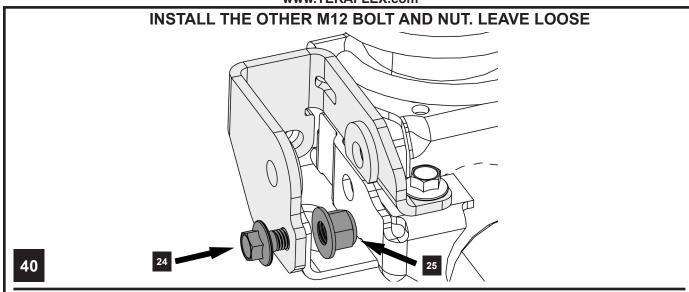
INSTALL ONE OF THE M12 BOLTS AND THE PROVIDED SERRATED NUT THROUGH THE BOTTOM. THREAD THE NUT ONTO THE BOLT FINGER TIGHT.



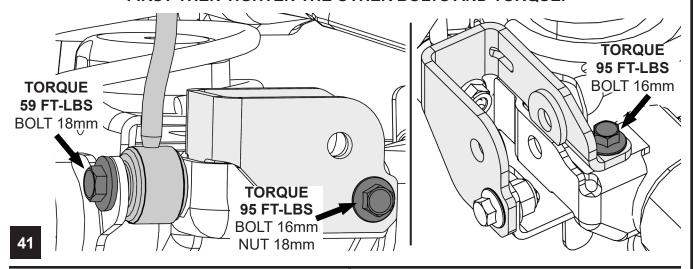


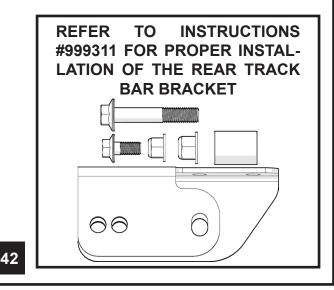
39

38

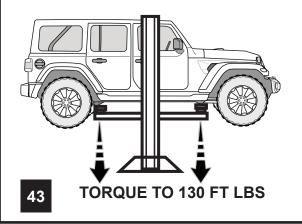


### REINSTALL THE SWAYBAR LINK USING THE FACTORY HARDWARE AND TIGHTEN FIRST THEN TIGHTEN THE OTHER BOLTS AND TORQUE.



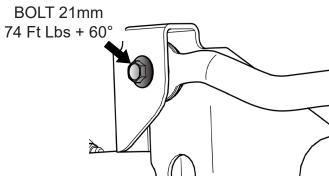


# REINSTALL TIRES AND LOWER TO THE GROUND



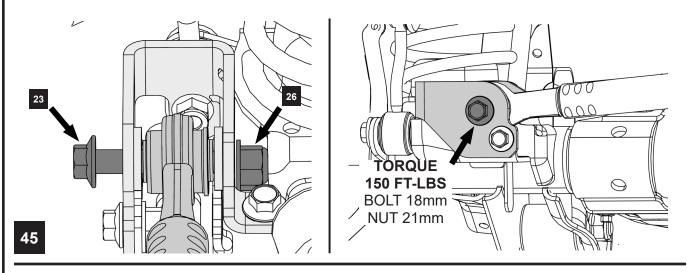
## REINSTALL THE REAR TRACK BAR INTO THE NEW BRACKET AND TORQUE TO THE FOLLOWING SPECS

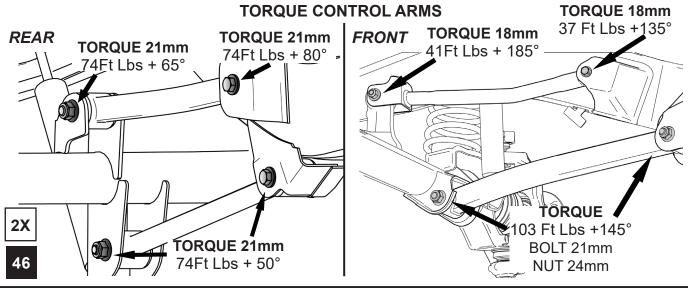
#### **TORQUE REAR**



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#### REINSTALL THE FRONT TRACK BAR USING THE SUPPLIED HARDWARE





# 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.

#### JL Rubicon with Factory Fenders:

See Notes: Not all Tires Measure the Same

- 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

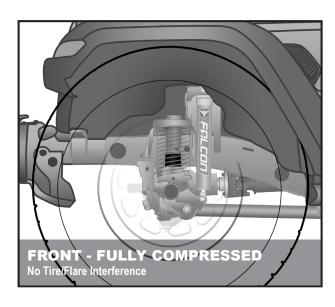


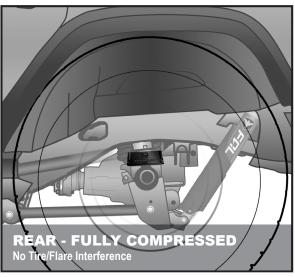


• 37" - 3.5" Front & 4" Rear Bump Stops

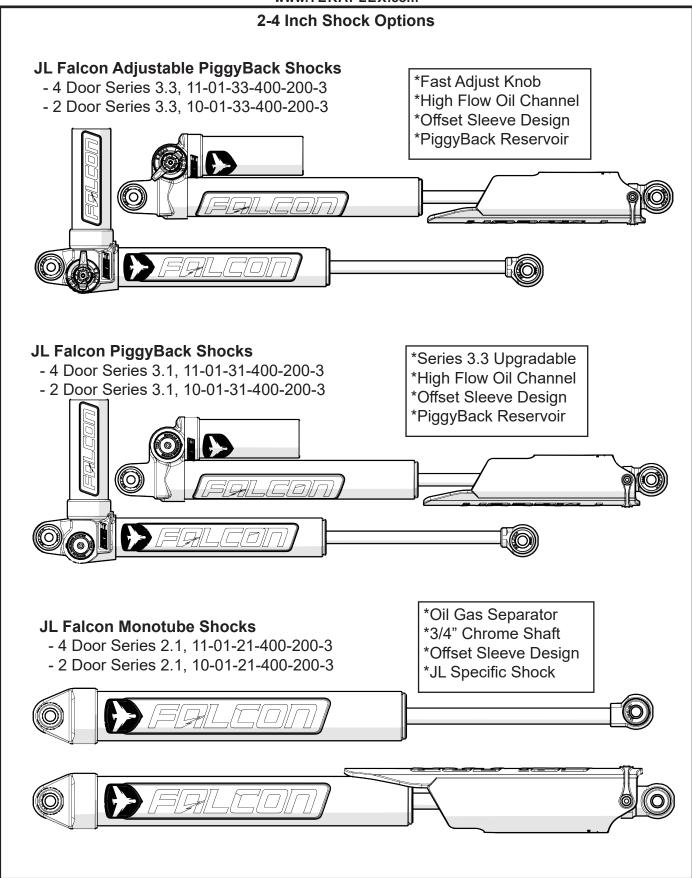








JL/JLU Strike Pad Shim (Front & Rear) 1959300 \$59.99





#### 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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TERAFLEX, Inc. 5680 West Dannon Way West Jordan, UT. 84081 Phone/801.713.3314 Fax/801.713.2313 www.teraflex.com