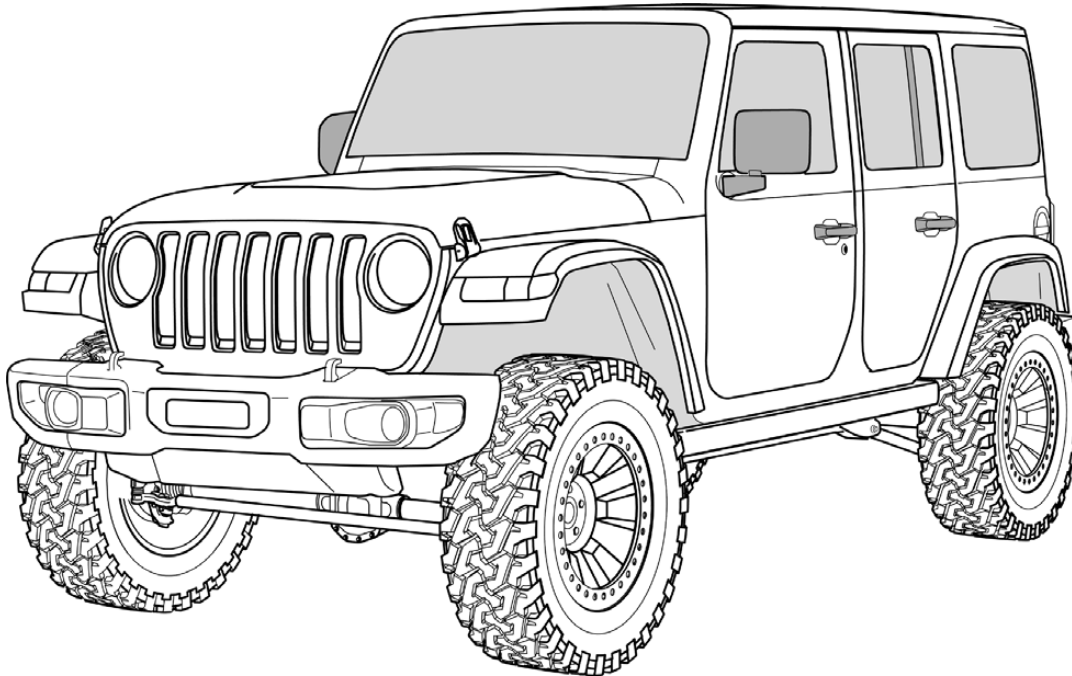




# Jeep JL 2.5" Spring Lift



## 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.**

---

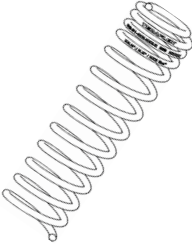
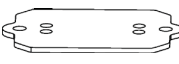
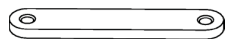
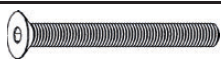
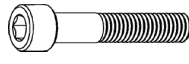
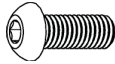
### Tools Needed:

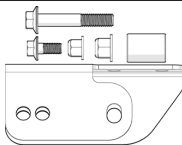
- |                                        |                           |
|----------------------------------------|---------------------------|
| - Metric Sockets and Open End Wrenches | - Factory Service Manual  |
| - Torque Wrench                        | - General Mechanics Tools |
- 

### Maintenance Note:

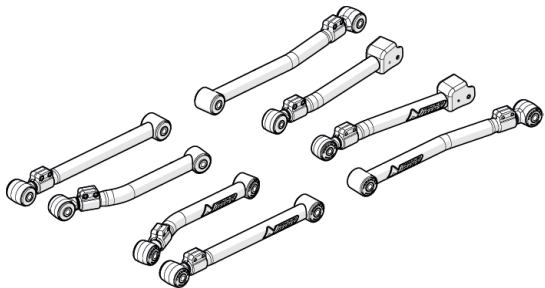
After the first 300 miles and every 3,000 miles after that, re-torque all the suspension components and bolts.

Spring Box Components

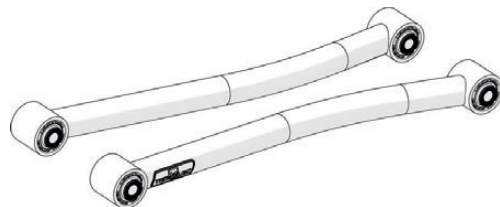
|                                                                                     |    | Description                               | Item #          | Alpine CT2 |     | Sport ST2 |     | Base Spring Lift |     |
|-------------------------------------------------------------------------------------|----|-------------------------------------------|-----------------|------------|-----|-----------|-----|------------------|-----|
|                                                                                     |    |                                           |                 | 4DR        | 2DR | 4DR       | 2DR | 4DR              | 2DR |
|    | 1  | Front                                     | 02-21-201-250-1 | 2          | -   | 2         | -   | 2                | -   |
|                                                                                     |    |                                           | 02-21-301-250-1 | -          | 2   | -         | 2   | -                | 2   |
|                                                                                     | 2  | Rear Left                                 | 02-22-211-250-1 | 1          | -   | 1         | -   | 1                | -   |
|                                                                                     |    |                                           | 02-22-311-250-1 | -          | 1   | -         | 1   | -                | 1   |
|                                                                                     | 3  | Rear Right                                | 02-22-221-250-1 | 1          | -   | 1         | -   | 1                | -   |
|                                                                                     |    |                                           | 02-22-321-250-1 | -          | 1   | -         | 1   | -                | 1   |
|    | 4  | Front Bumpstops                           | 12-01-109-200   | 2          | 2   | 2         | 2   | 2                | 2   |
|    | 5  | Rear Bumpstops                            | 12-01-209-200   | 2          | 2   | 2         | 2   | 2                | 2   |
|    | 6  | Rear Bumpstop Bracket                     | 12-02-209-002   | 2          | 2   | 2         | 2   | 2                | 2   |
|    | 7  | Rear Bumpstop Mounting Strap              | 12-02-209-001   | 2          | 2   | 2         | 2   | 2                | 2   |
|   | 8  | Front Bumpstop Spacers                    | 12-02-109-050   | 4          | 4   | 4         | 4   | 4                | 4   |
|  | 9  | Rear Bumpstop Spacers                     | 12-02-209-050   | 4          | 4   | 4         | 4   | 4                | 4   |
|  | 10 | Front Swaybar link 10.75"                 | 744500          | 2          | 2   | 2         | 2   | 2                | 2   |
|  | 11 | Rear Swaybar Link 11.50                   | 21-01-001-115   | 2          | 2   | 2         | 2   | 2                | 2   |
|  | 12 | M10 x 1.5 Fuji Nut                        | 23-07-03-001    | 6          | 6   | 6         | 6   | 6                | 6   |
|  | 13 | M10 x 1.5 x 100mm Flat Socket Cap Screw   | 45-04-003-001   | 2          | 2   | 2         | 2   | 2                | 2   |
|  | 14 | M10 x 1.5 x 50mm Socket Cap Screw         | 45-03-003-001   | 4          | 4   | 4         | 4   | 4                | 4   |
|  | 15 | M10 x 1.5 x 25mm Button Socket Cap Screw  | 45-05-003-003   | 4          | 4   | 4         | 4   | 4                | 4   |
|  | 16 | M10 Lock Washer                           | 45-12-002-001   | 4          | 4   | 4         | 4   | 4                | 4   |
|  | 17 | Nut Wrench Tool                           | 600271          | 1          | 1   | 1         | 1   | 1                | 1   |
|  | 18 | M12 x 1.75 x 55mm Button Socket Cap Screw | 45-05-003-001   | 2          | 2   | 2         | 2   | 2                | 2   |
|  | 19 | M12 x 1.75mm Black Fuji Nut               | 23-07-02-002    | 2          | 2   | 2         | 2   | 2                | 2   |

|                  |                                                                                   |                        |         | Alpine CT2 |     | Sport ST2 |     | Base Spring Lift |     |
|------------------|-----------------------------------------------------------------------------------|------------------------|---------|------------|-----|-----------|-----|------------------|-----|
|                  |                                                                                   |                        |         | 4DR        | 2DR | 4DR       | 2DR | 4DR              | 2DR |
| Other Boxed Kits |  | Jounce Bumpers Kit     | 1959200 | 1          | 1   | 1         | 1   | -                | -   |
|                  |  | Alpine Control Arm Kit | 1416510 | 1          | 1   | -         | -   | -                | -   |
|                  |  | Sport Control Arm Kit  | 1253000 | -          | -   | 1         | 1   | -                | -   |
|                  |  | Rear Track Bar Kit     | 1953600 | 1          | 1   | 1         | 1   | 1                | 1   |

Note: If installing Alpine Control Arm Kit Refer to Instruction #999321 before continuing.

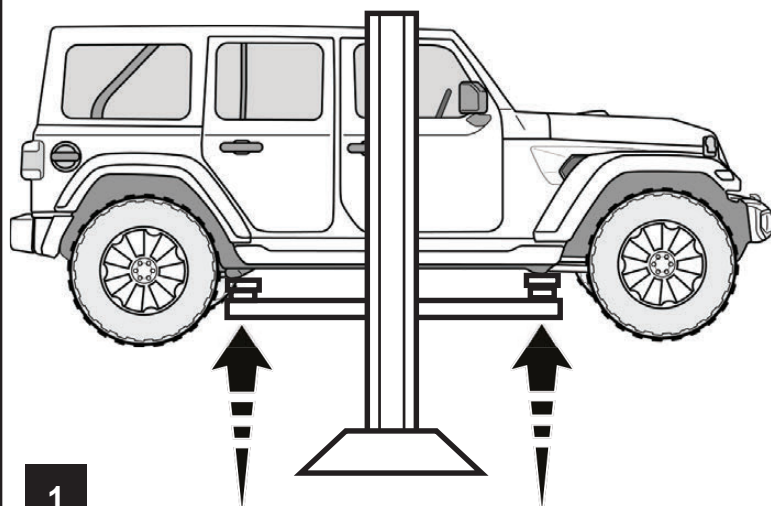
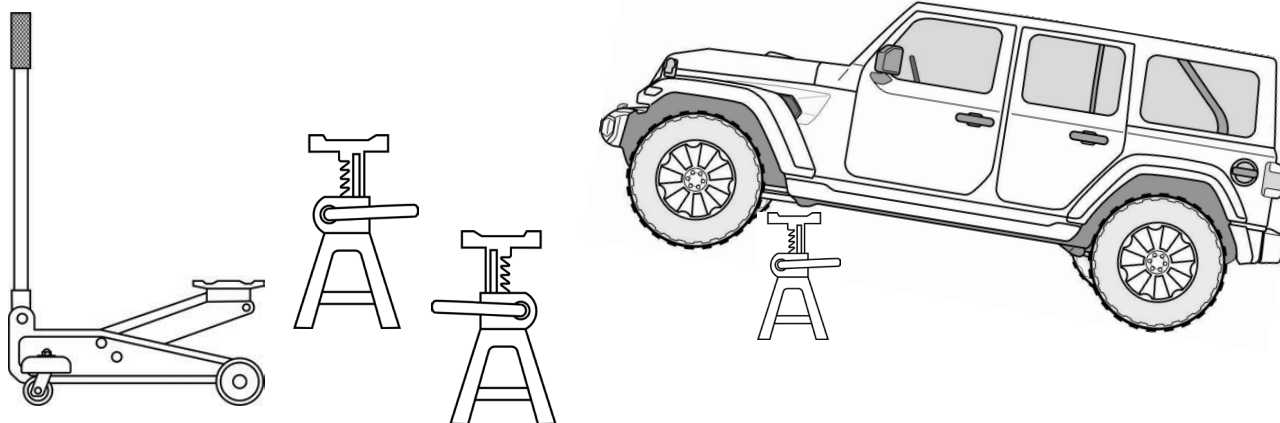


Note: If installing Sport Control Arm Kit Refer to Instruction #999325 before continuing.



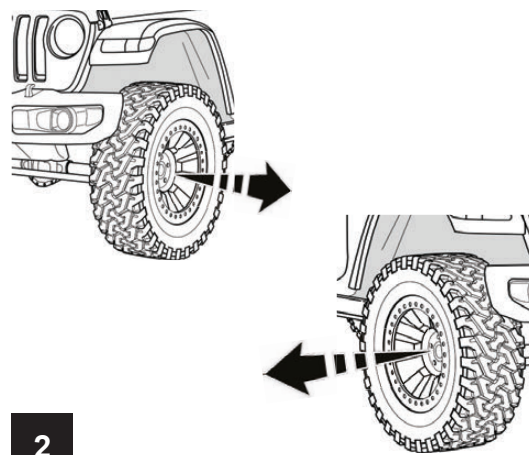
**\*LEAVE CONTROL ARM BOLTS LOOSE UNTIL THE END OF THE LIFT INSTALLATION\***

### FRONT INSTALLATION LIFT AND SUPPORT AT FRAME



1

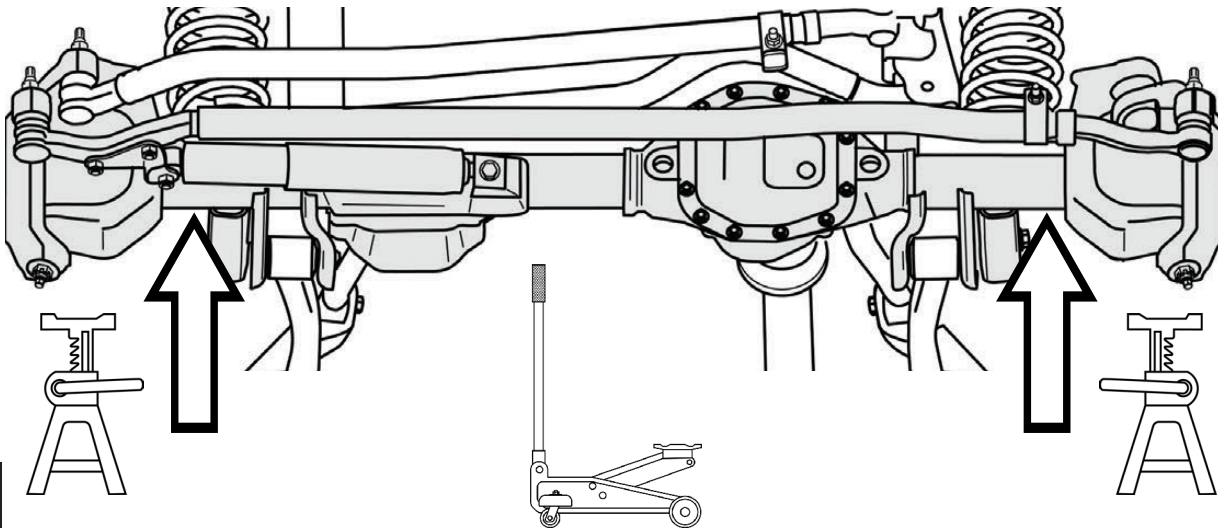
### REMOVE FRONT TIRES



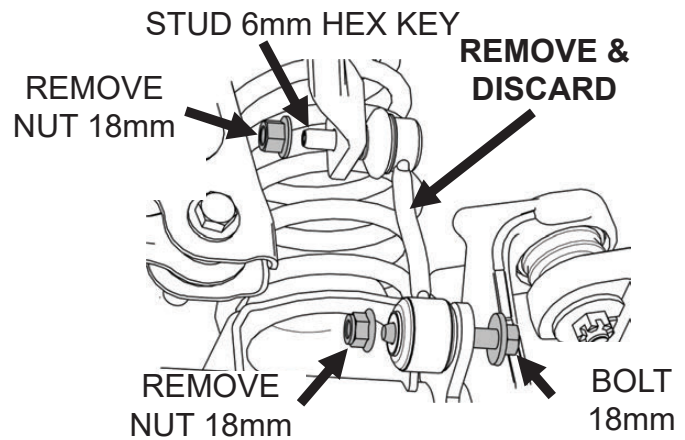
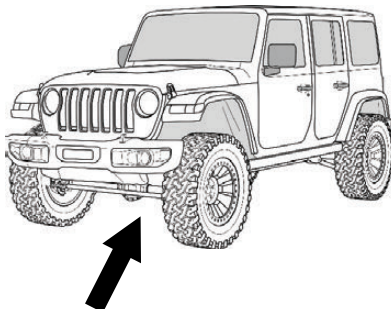
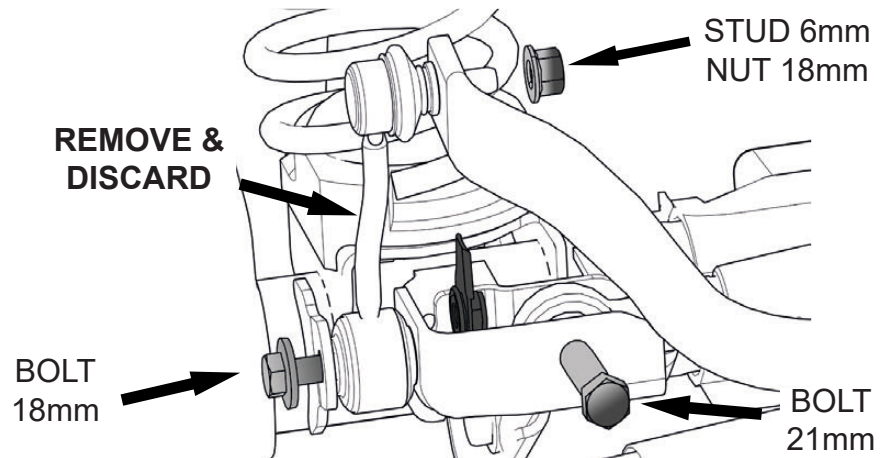
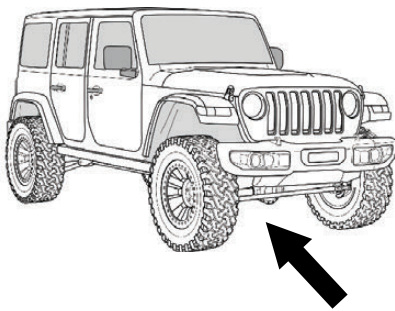
2



### SUPPORT FRONT AXLE

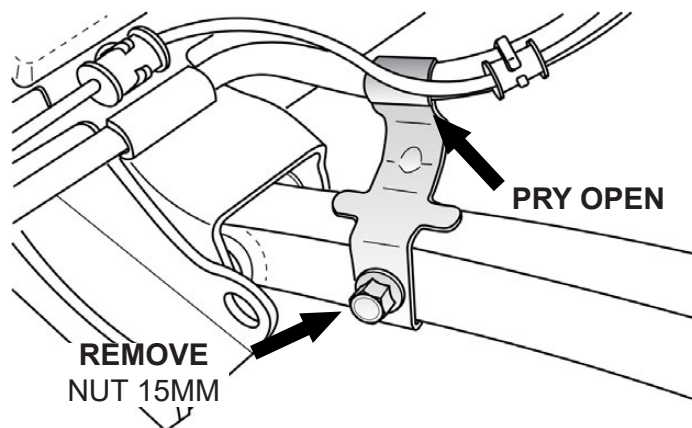
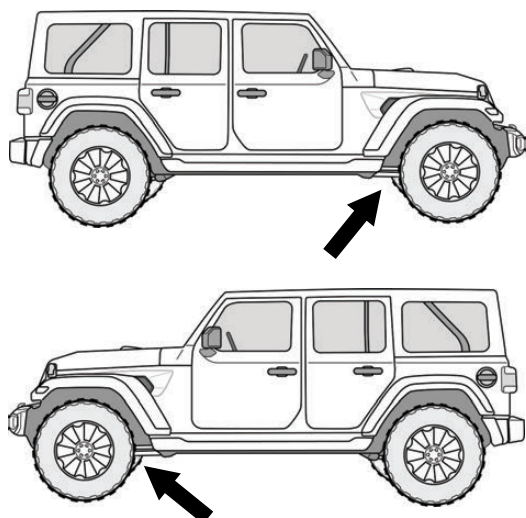


### REMOVE SWAY BAR LINKS & REMOVE TRACK BAR BOLT AT AXLE



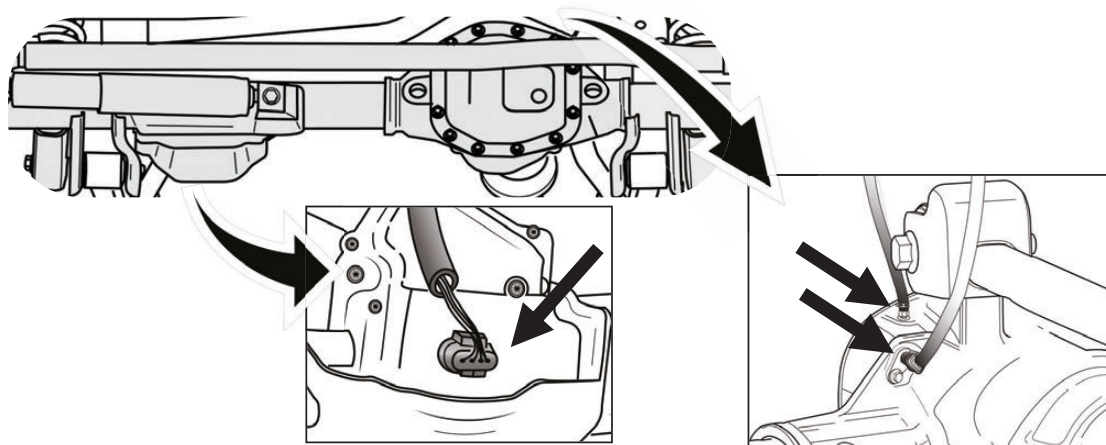
## REMOVE AND DISCARD BRAKE LINE BRACKETS FROM LOWER CONTROL ARMS

2X  
6



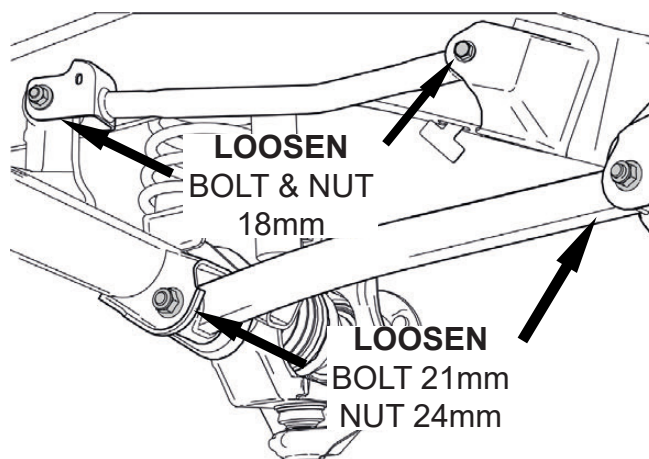
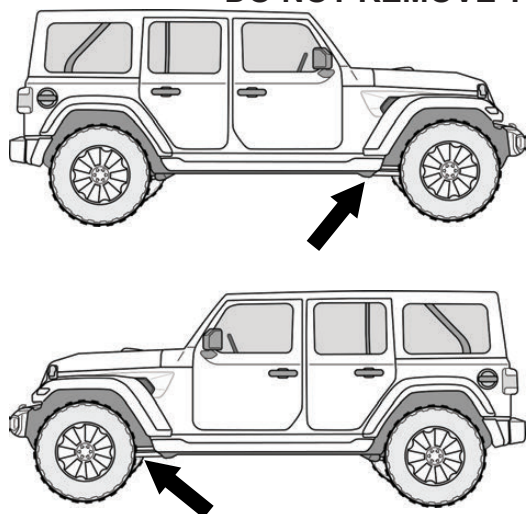
## DISCONNECT ACTUATORS AND VENT HOSE AT THE FRONT AXLE

7

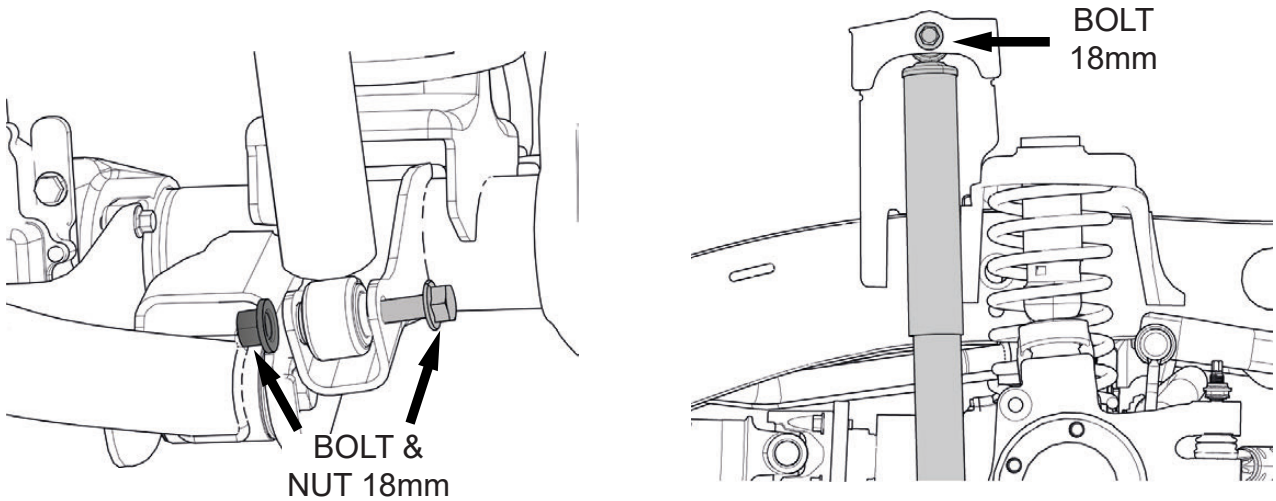


## LOOSEN FRONT CONTROL ARM BOLTS DO NOT REMOVE THE CONTROL ARM BOLTS

2X  
8



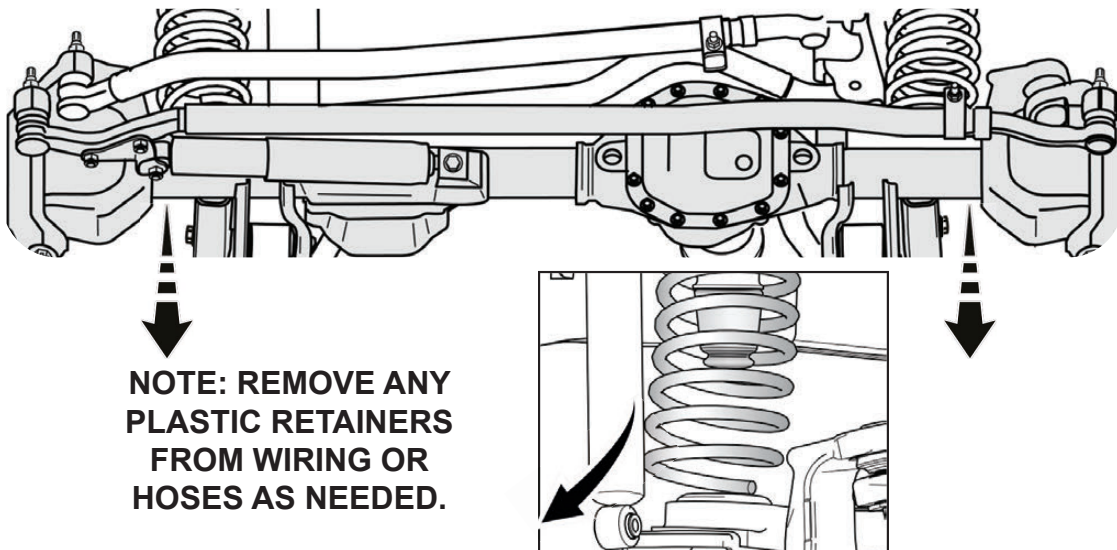
## REMOVE FRONT SHOCKS



2X

9

## LOWER AXLE AND REMOVE FRONT SPRINGS



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

2X

10

## INSTALL BUMPSTOP INTO NEW FRONT SPRING

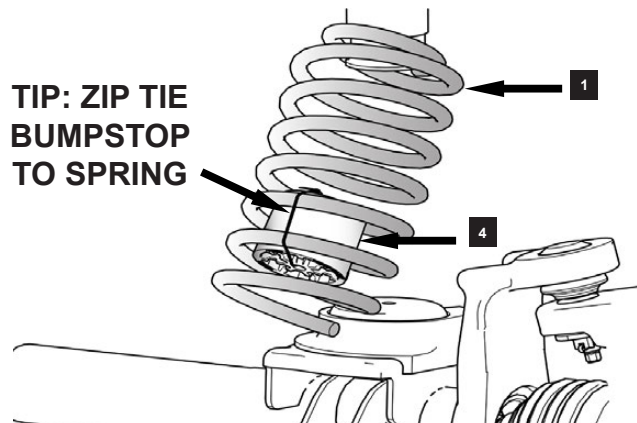
**Note: If installing Falcon Jounce  
Bumpers refer to instruction  
#999308 before installing springs.**



2X

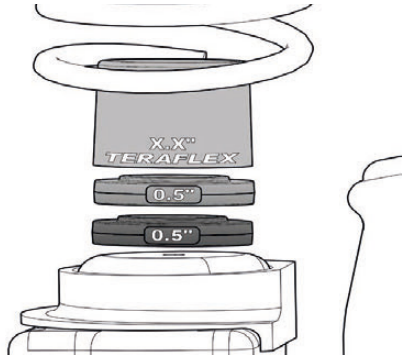
11

**TIP: ZIP TIE  
BUMPSTOP  
TO SPRING**





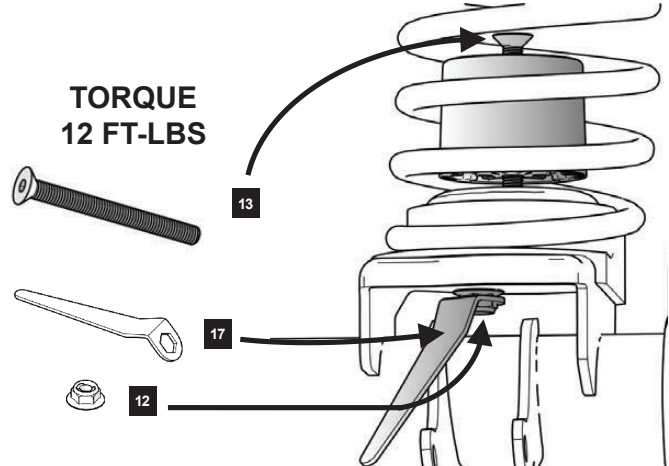
**NOTE: REFER TO PAGE 18  
FOR BUMPSTOP SPACER  
GUIDE**



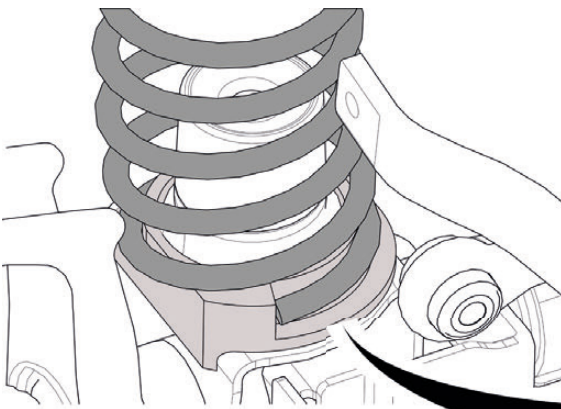
**2X**

**12**

**TORQUE  
12 FT-LBS**

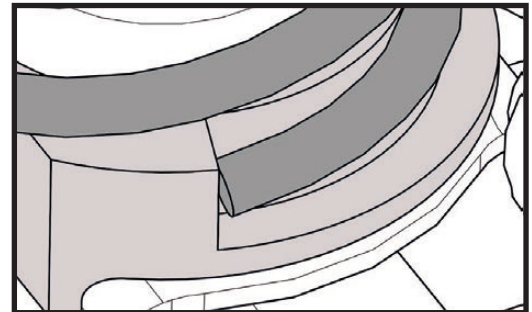


**FULLY SEAT THE SPRINGS INTO THE LOWER SPRING ISOLATOR**

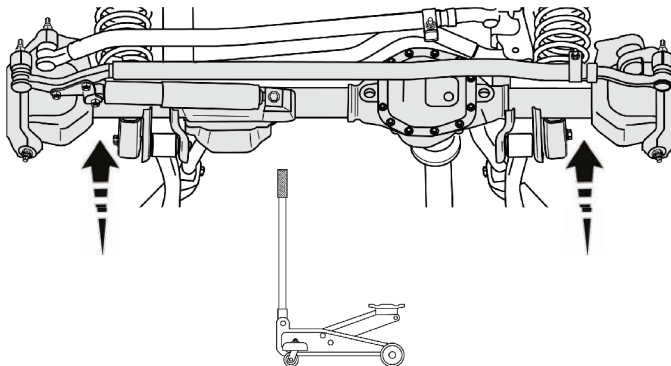


**2X**

**13**

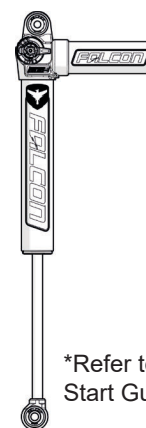


**RAISE AXLE & INSTALL SHOCKS**



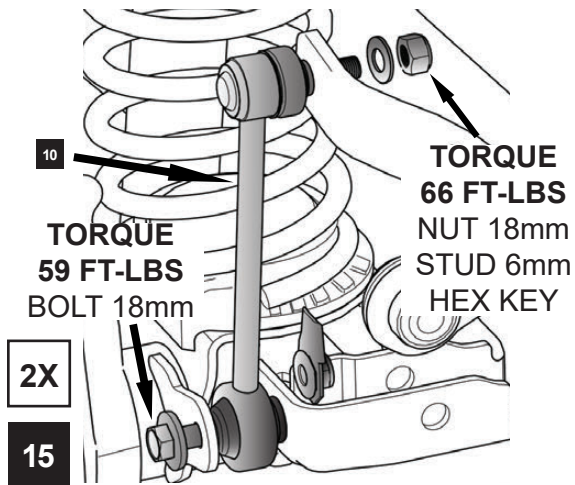
**14**

**INSTALL FRONT FALCON SHOCKS AT  
THIS TIME**

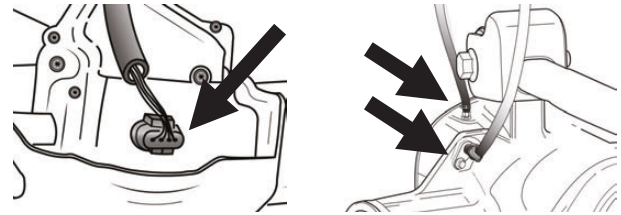


*\*Refer to the Quick  
Start Guide.*

## INSTALL NEW SWAY BAR LINKS



## RECONNECT CONNECTIONS TO FRONT AXLE

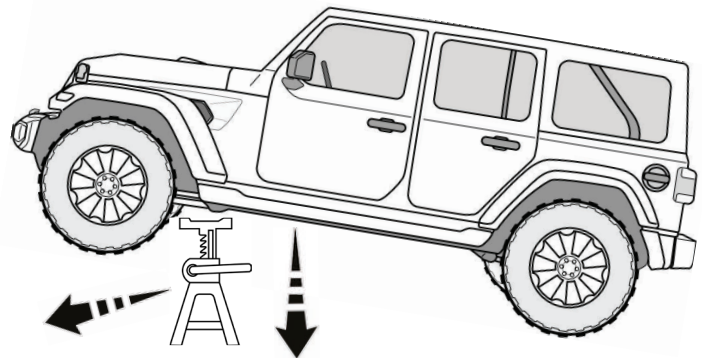
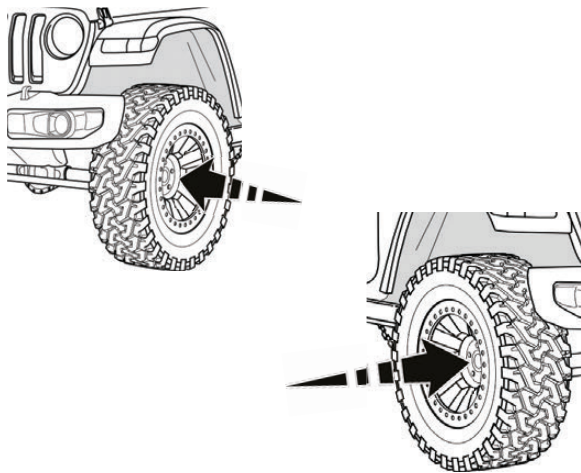


**RECONNECT PLASTIC RETAINERS FROM WIRING OR HOSES AS NEEDED.**

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

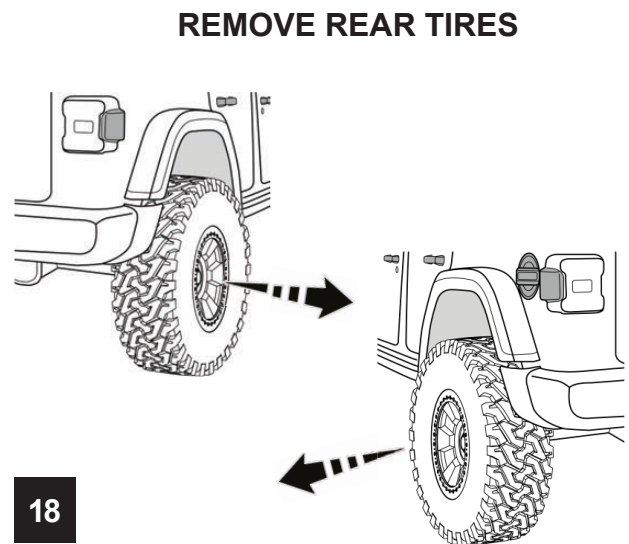
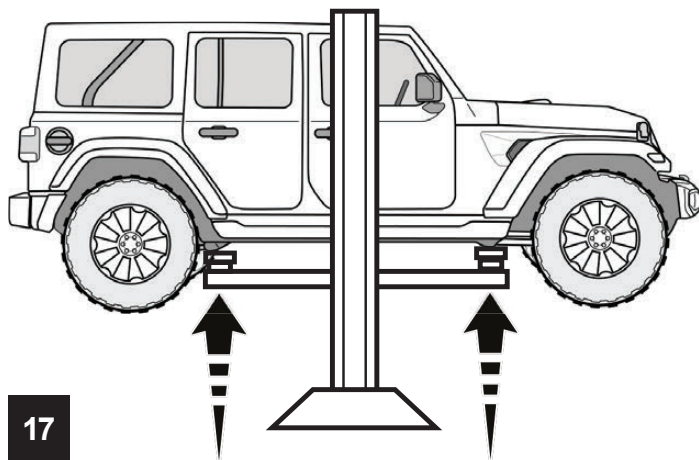
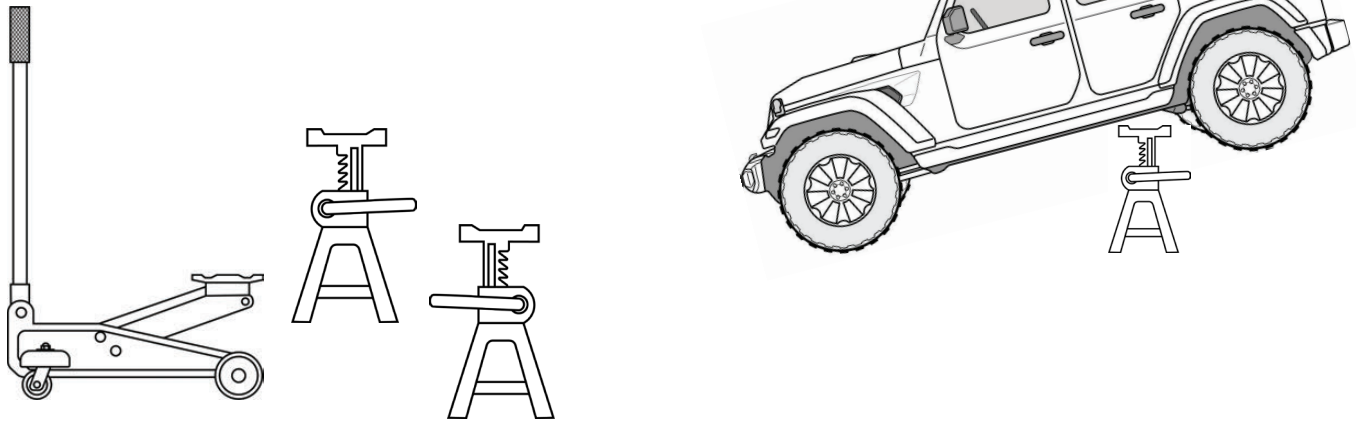
**16 WAIT TO RE-INSTALL TRACK BAR UNTIL THE END OF THE LIFT KIT INSTALL.**

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

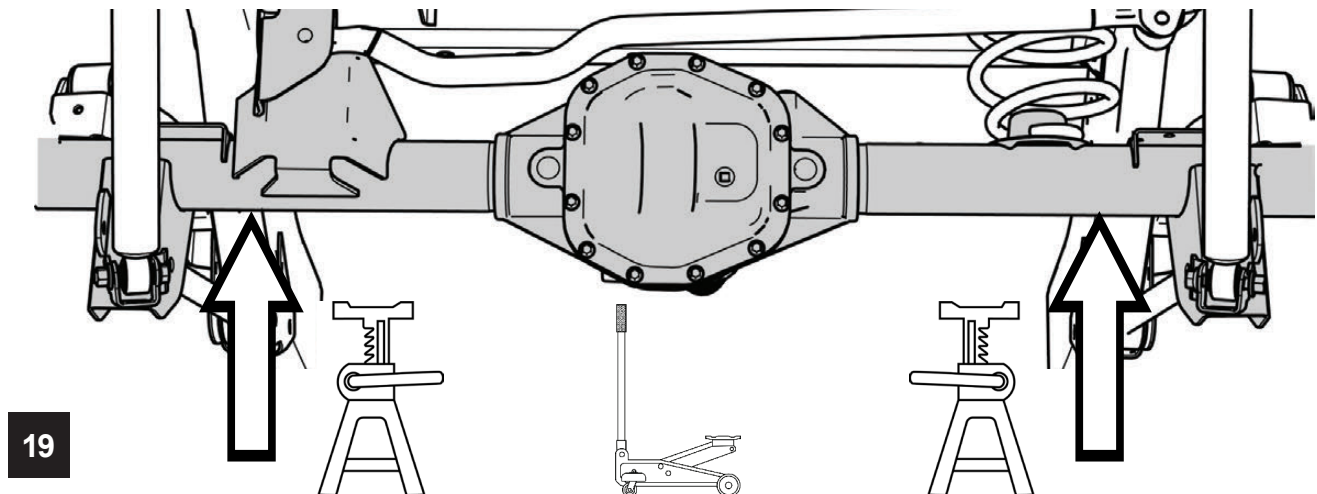


**\*TORQUE THE FRONT TIRES TO 130 FT LBS\***

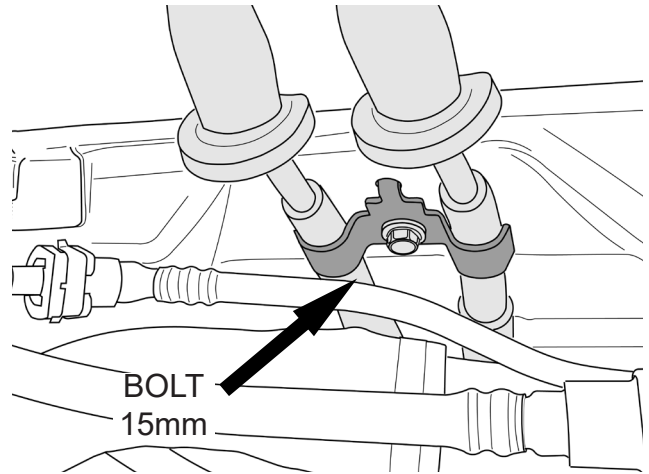
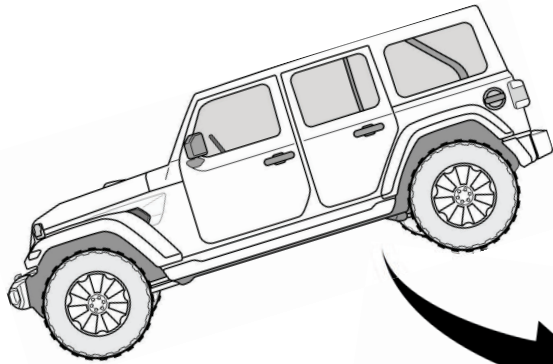
## REAR INSTALL LIFT AND SUPPORT AT FRAME



## SUPPORT REAR AXLE

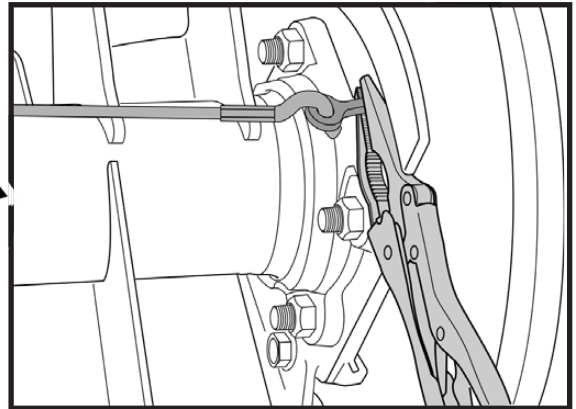
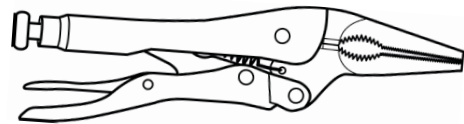
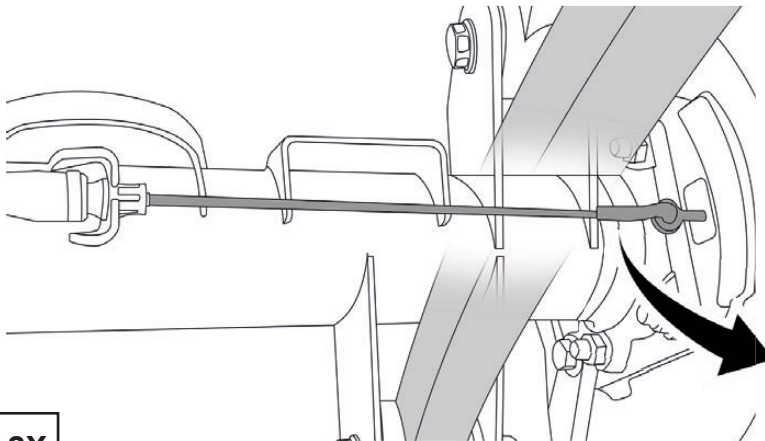


## REMOVE E-BRAKE CABLE BRACKET AND DISCARD



20

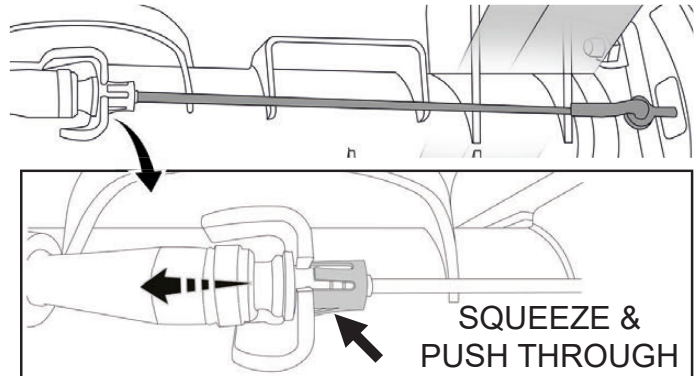
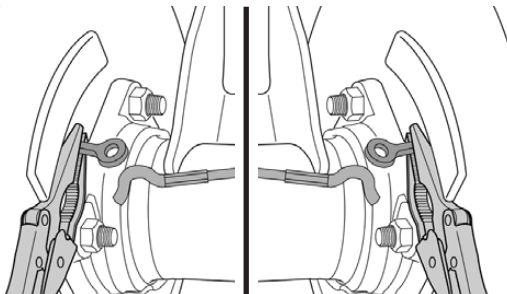
## SET THE E-BRAKE AND CLAMP BOTH E-BRAKE EYELETS AGAINST BACKING PLATES WITH LOCKING PLIERS



2X

21

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



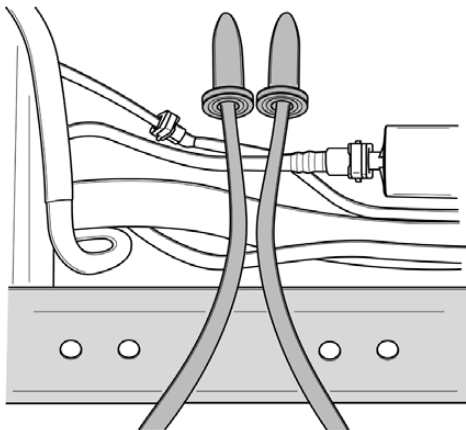
2X

22

**NOTE: DO NOT REMOVE LOCKING PLIERS FROM E-BRAKE EYELETS**

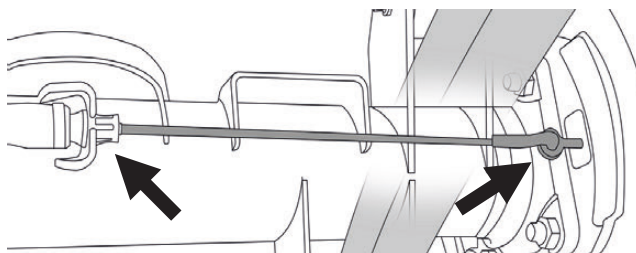


**ROUTE E-BRAKE CABLES UNDER  
CROSS MEMBER AND FUEL LINES.**



**23**

**RECONNECT E-BRAKE CABLES TO THE  
AXLE BRACKETS AND THEN THE  
E-BRAKE EYELETS.**



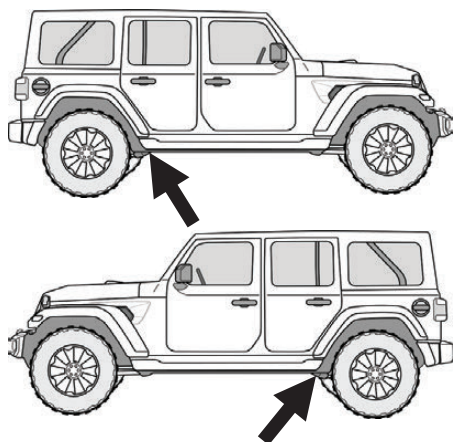
**2X**

**REMOVE PLIERS FROM  
E-BRAKE EYELETS**

**24**

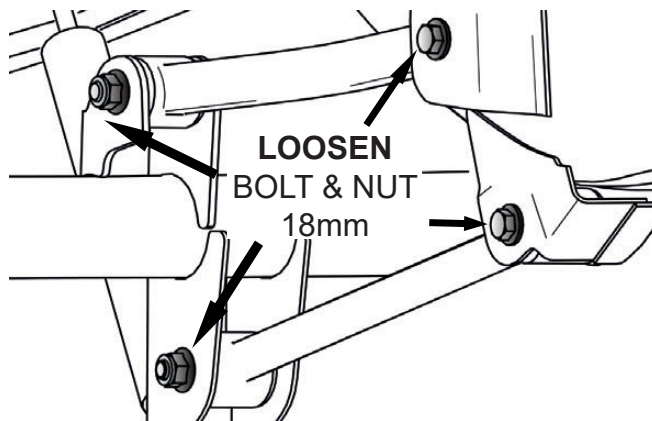
**LOOSEN REAR CONTROL ARM BOLTS**

**DO NOT REMOVE THE CONTROL ARM BOLTS**

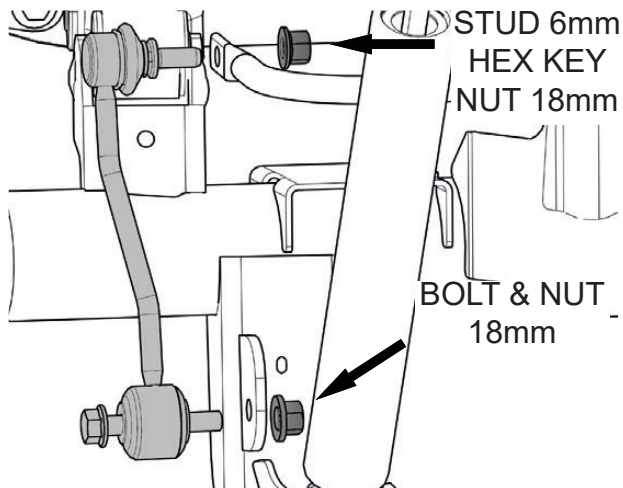


**2X**

**25**



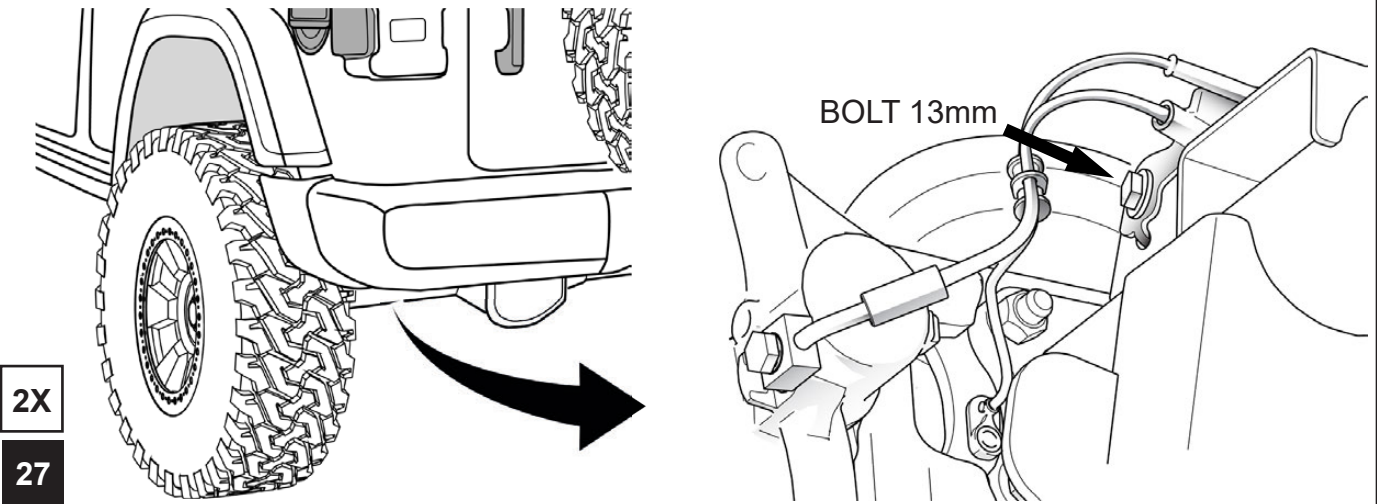
**REMOVE AND DISCARD SWAY BAR LINKS**



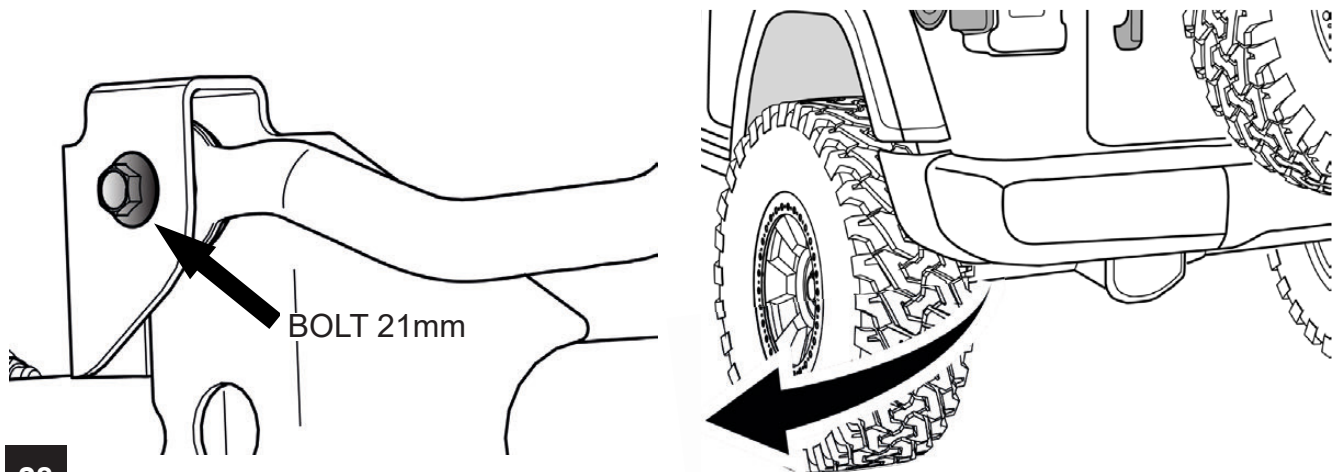
**2X**

**26**

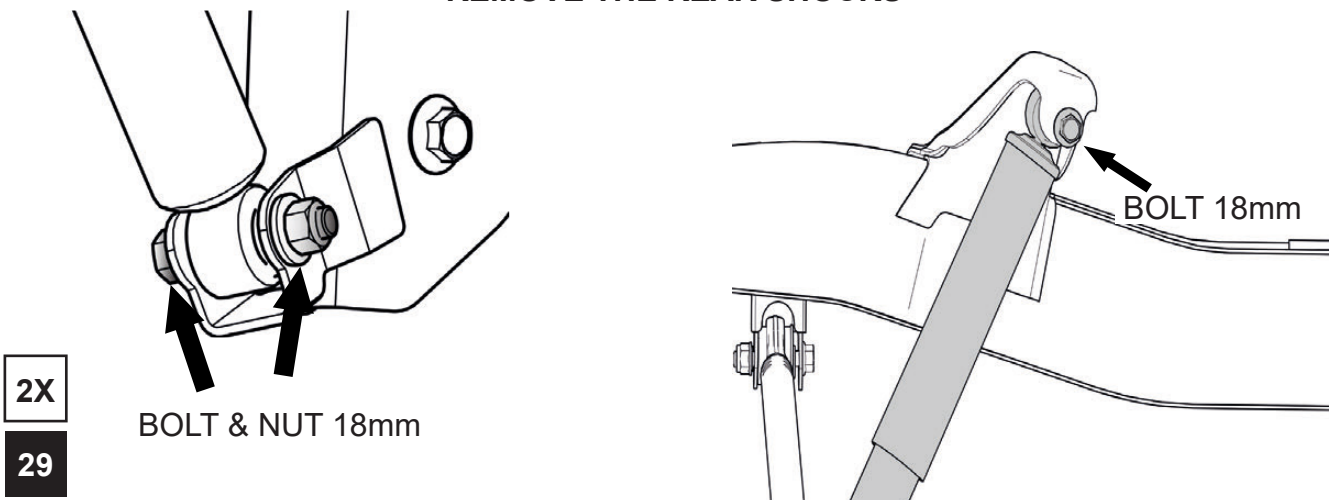
**REMOVE BRAKE LINE BRACKETS FROM BOTH SIDES OF THE AXLE**



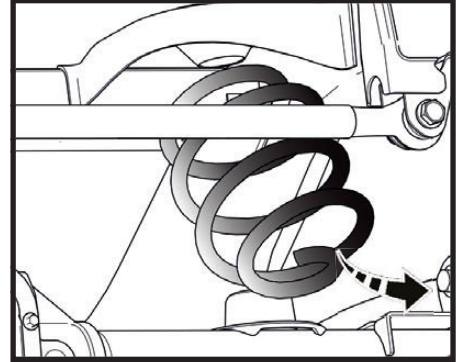
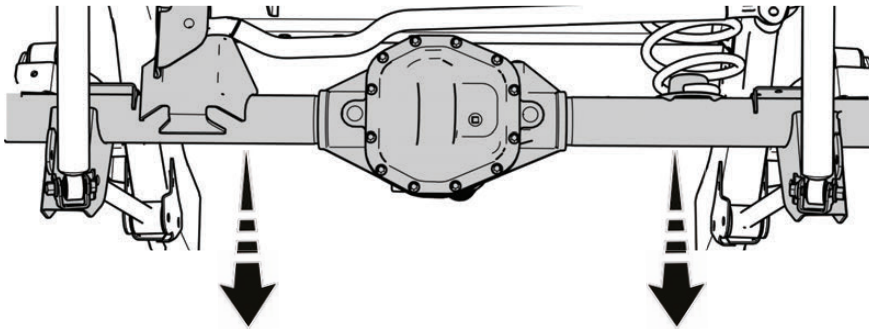
**REMOVE THE TRACK BAR FROM THE AXLE**



**REMOVE THE REAR SHOCKS**



## LOWER AXLE TO REMOVE & DISCARD REAR SPRINGS



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

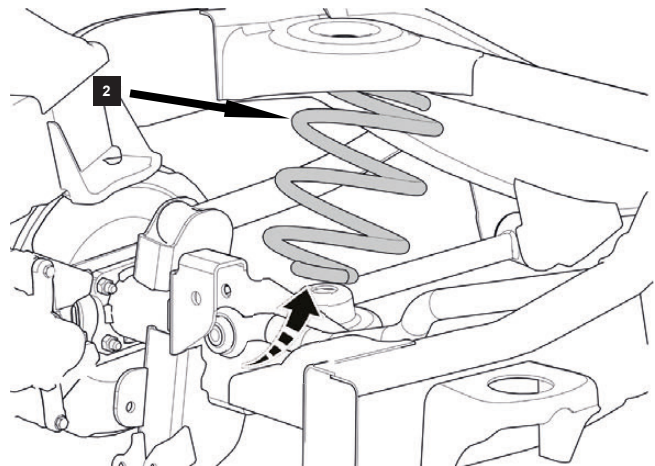
**30**

## INSTALL NEW REAR SPRINGS

**INSTALL THE DRIVERS SIDE SPRING FIRST**

**LEFT REAR SPRINGS**  
4 DOOR: 02-22-211-250-1  
2 DOOR: 02-22-311-250-1

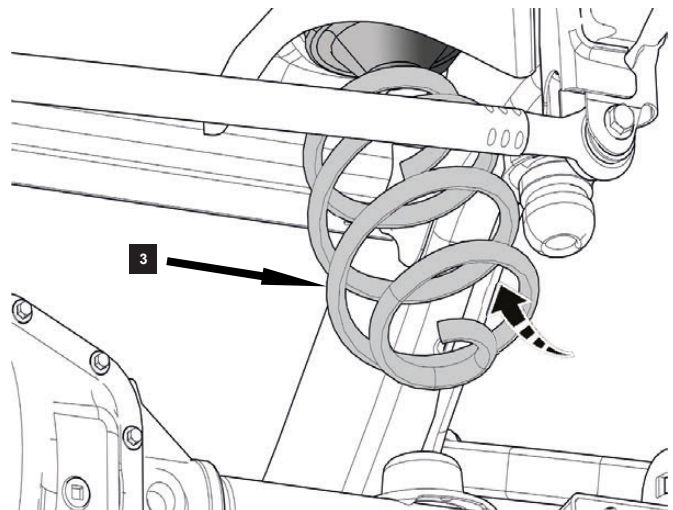
**NOTE: PAY SPECIAL ATTENTION TO INSTALL THE CORRECT SPRING ON THE CORRECT SIDE OF THE JEEP. THE REAR SPRINGS ARE SIDE SPECIFIC.**



**31**

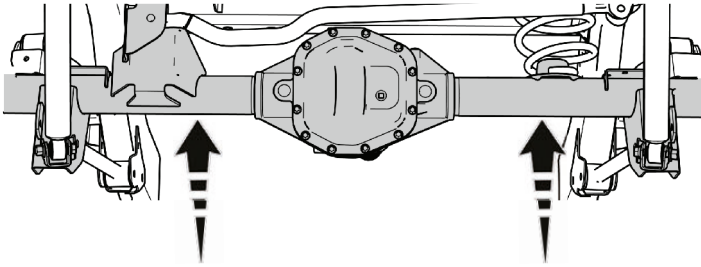
**INSTALL THE PASSENGERS SIDE SPRING**

**RIGHT REAR SPRINGS**  
4 DOOR: 02-22-221-250-1  
2 DOOR: 02-22-321-250-1



**32**

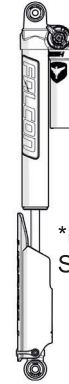
## RAISE THE REAR AXLE AND INSTALL SHOCKS



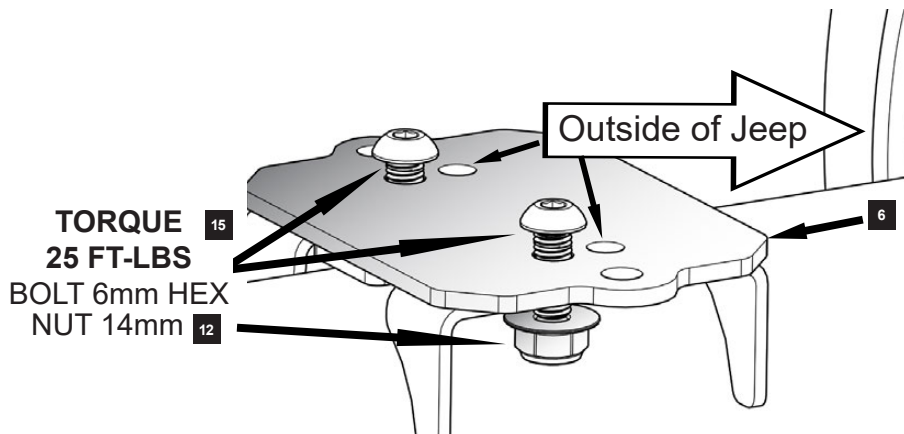
**MAKE SURE TO FULLY SEAT THE SPRINGS INTO THE UPPER SPRING ISOLATOR**

**33**

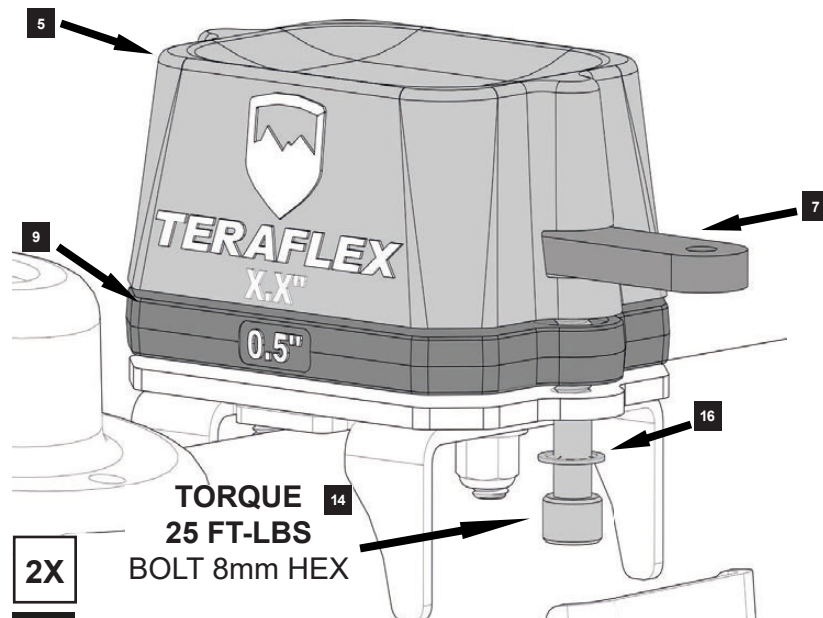
**INSTALL REAR FALCON SHOCKS AT THIS TIME**



\*Refer to the Quick Start Guide.



**TORQUE 25 FT-LBS**  
BOLT 6mm HEX  
NUT 14mm

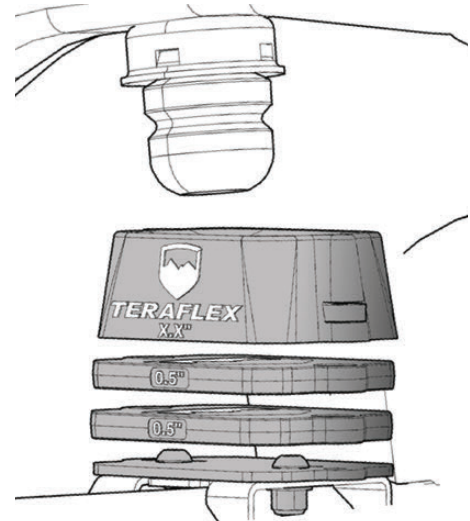


**TORQUE 25 FT-LBS**  
BOLT 8mm HEX

**2X**

**34**

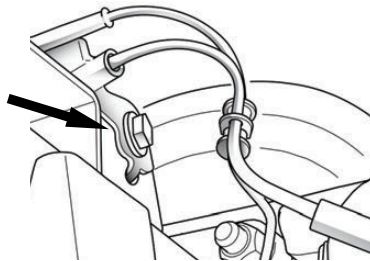
**NOTE: REFER TO PAGE 18 FOR BUMPSTOP SPACER GUIDE**





**REINSTALL BRAKE LINE BRACKETS  
RECONNECT PLASTIC RETAINERS FROM  
WIRING OR HOSES AS NEEDED**

REINSTALL  
BOLT 13mm



2X

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

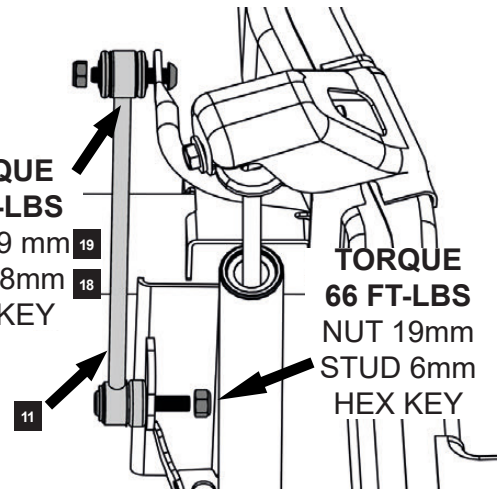
35

**INSTALL NEW SWAY BAR LINKS**

**TORQUE  
45 FT-LBS**  
NUT 19 mm  
BOLT 8mm  
HEX KEY

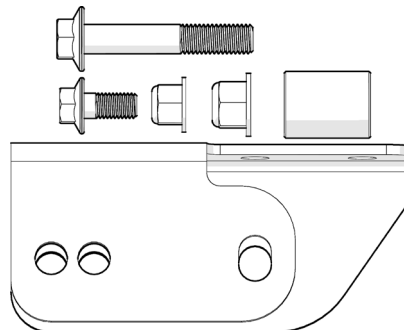
2X

36



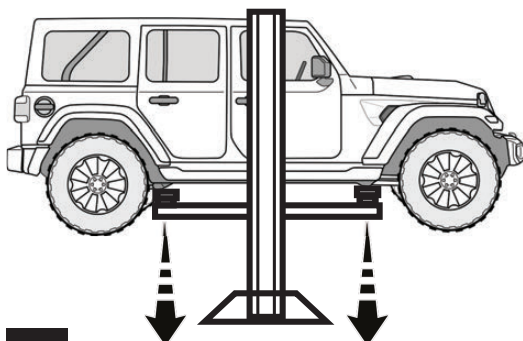
**TORQUE  
66 FT-LBS**  
NUT 19mm  
STUD 6mm  
HEX KEY

**REFER TO INSTRUCTIONS  
#999311 FOR PROPER INSTAL-  
LATION OF THE REAR TRACK  
BAR BRACKET**



37

**REINSTALL TIRES AND LOWER TO  
THE GROUND**



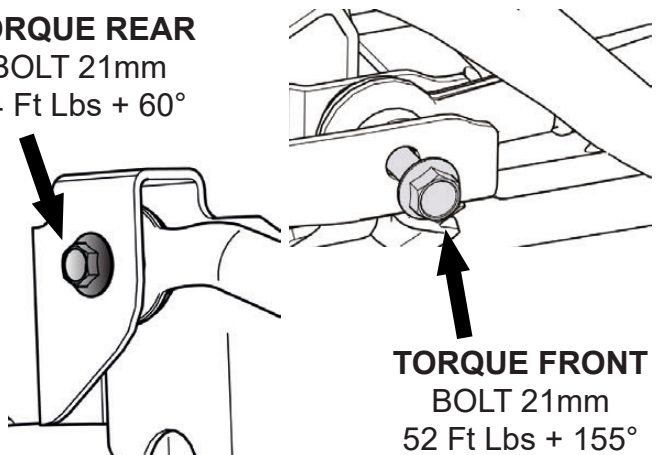
38

**TORQUE TO 130 FT LBS**

**REINSTALL TRACK BARS AND  
TORQUE TO THE FOLLOWING SPECS**

**TORQUE REAR**  
BOLT 21mm  
74 Ft Lbs + 60°

39



**TORQUE FRONT**  
BOLT 21mm  
52 Ft Lbs + 155°

## TORQUE CONTROL ARMS

REAR

TORQUE 21mm  
74Ft Lbs + 65°

TORQUE 21mm  
74Ft Lbs + 80°

TORQUE 21mm  
74Ft Lbs + 50°

2X

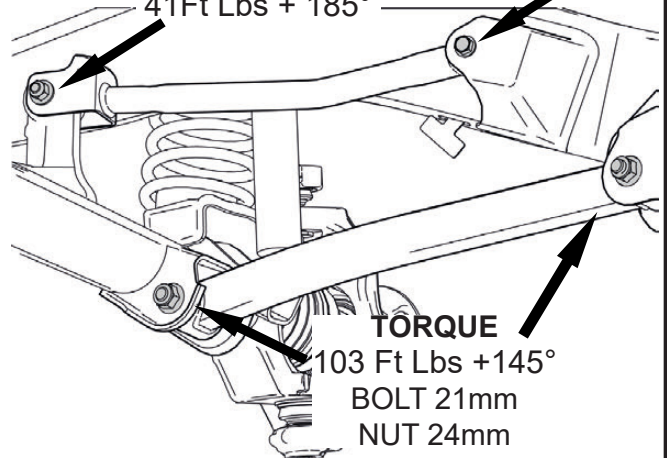
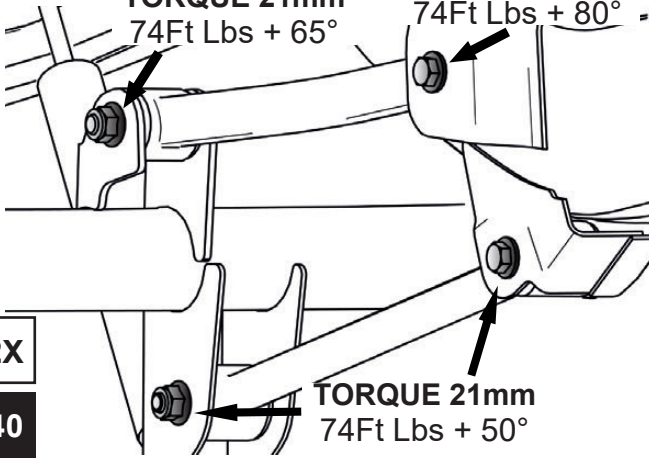
40

FRONT

TORQUE 18mm  
41Ft Lbs + 185°

TORQUE 18mm  
37 Ft Lbs +135°

TORQUE  
103 Ft Lbs +145°  
BOLT 21mm  
NUT 24mm



# 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.

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 RUBICON

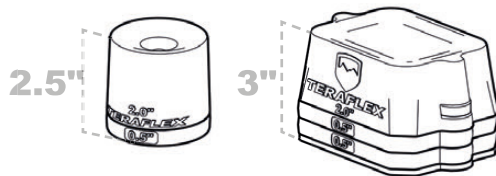
## JL Rubicon with Factory Fenders:

*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

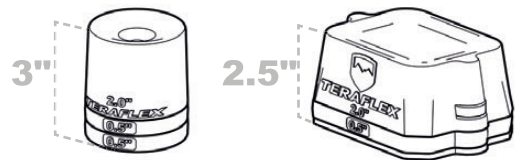


JL SPORT/SAHARA

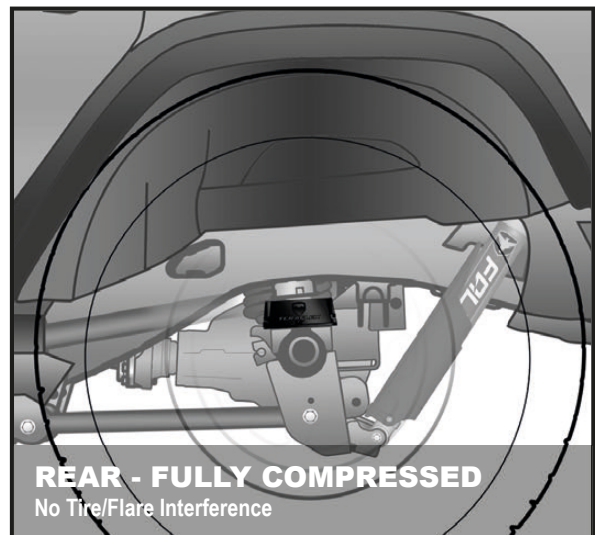
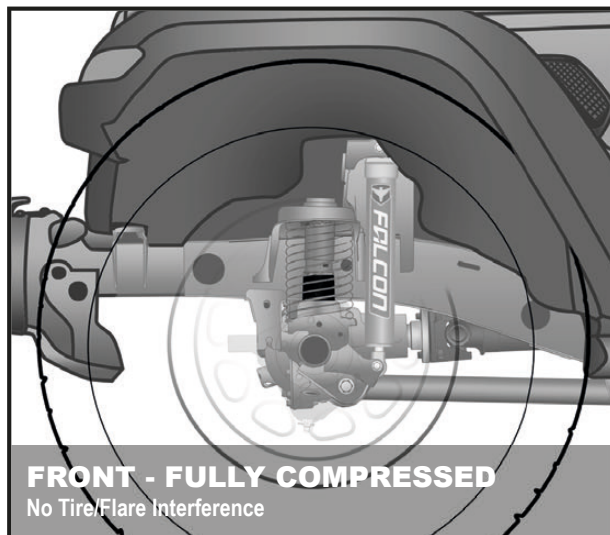
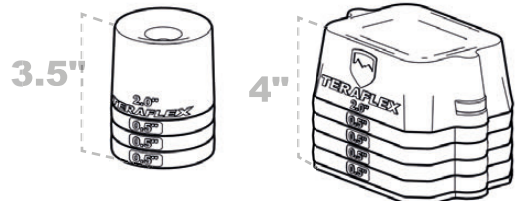
## JL Sport/Sahara with Factory Fenders:

*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



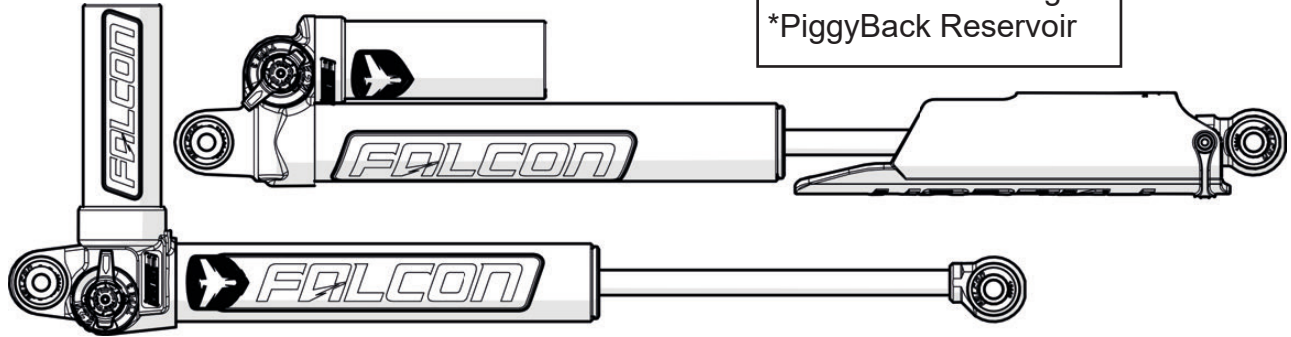
JL/JLU Strike Pad Shim (Front & Rear) 1959300 \$59.99

## 2-4 Inch Shock Options

### JL Falcon Adjustable PiggyBack Shocks

- 4 Door Series 3.3, 11-01-33-400-200-3
- 2 Door Series 3.3, 10-01-33-400-200-3

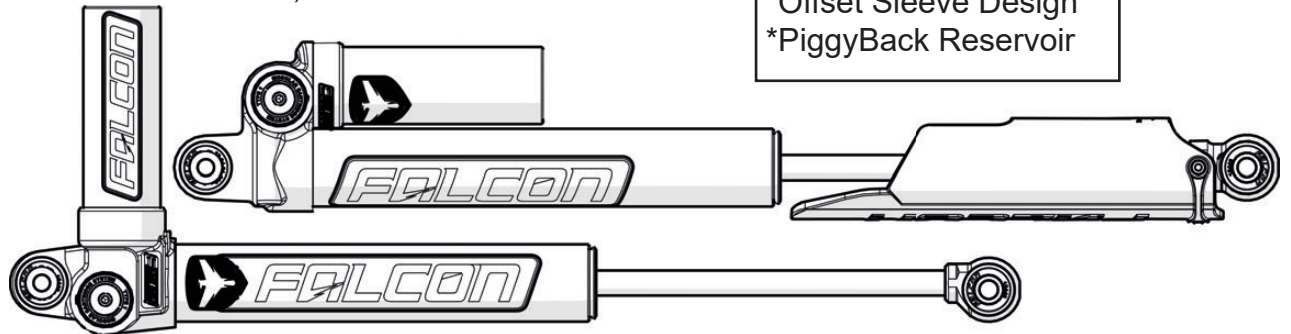
- \*Fast Adjust Knob
- \*High Flow Oil Channel
- \*Offset Sleeve Design
- \*PiggyBack Reservoir



### JL Falcon PiggyBack Shocks

- 4 Door Series 3.1, 11-01-31-400-200-3
- 2 Door Series 3.1, 10-01-31-400-200-3

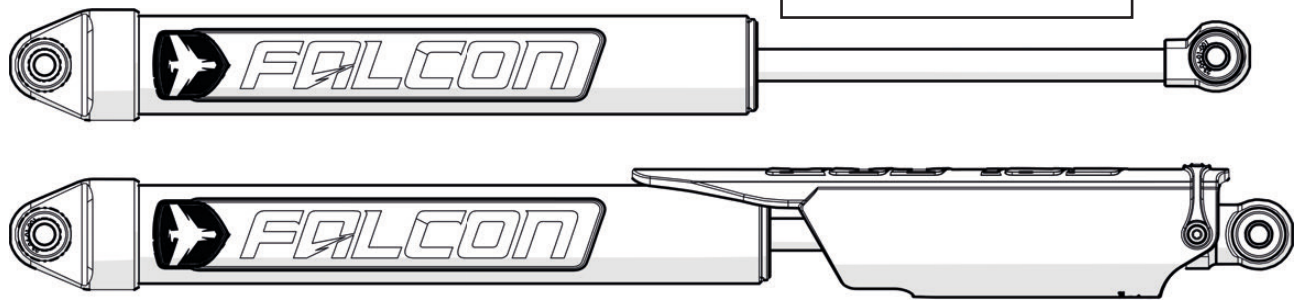
- \*Series 3.3 Upgradable
- \*High Flow Oil Channel
- \*Offset Sleeve Design
- \*PiggyBack Reservoir



### JL Falcon Monotube Shocks

- 4 Door Series 2.1, 11-01-21-400-200-3
- 2 Door Series 2.1, 10-01-21-400-200-3

- \*Oil Gas Separator
- \*3/4" Chrome Shaft
- \*Offset Sleeve Design
- \*JL Specific Shock

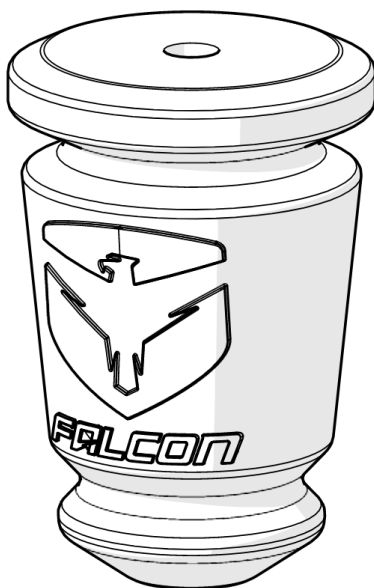






# Jeep JL Wrangler Jounce Bumper Instructions

Kit #1959200 - Jounce Bumper Kit, Jeep JL Wrangler



| Item No. | Part Number  | Description                                       | Qty |
|----------|--------------|---------------------------------------------------|-----|
| 1        | 45-02-02-002 | Bumper (S), Foam, Snap-In, 3.90" Tall             | 2   |
| 2        | 45-02-03-001 | Bumper (S), Foam, Snap-In / 1.97" Dia. 4.72" Tall | 2   |

## 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.

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.

***Refer to the factory service manual for the torque specs of the originally equipped hardware.***

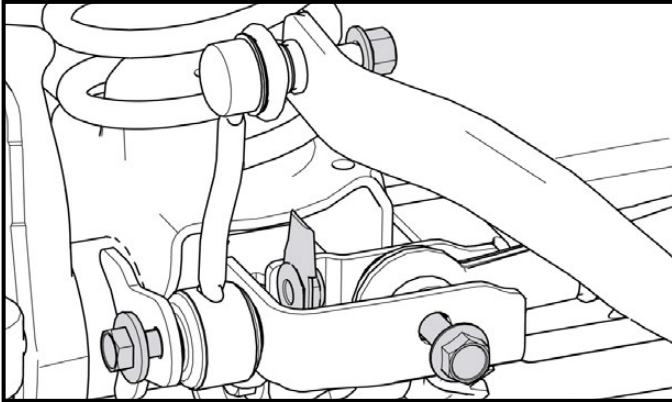
## Tools needed:

- This installation guide
- Basic mechanics tool set

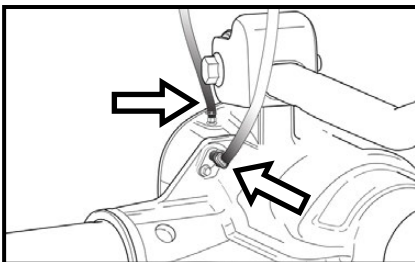
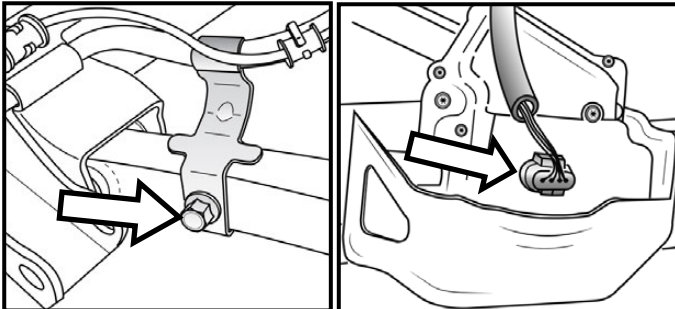
## FRONT AXLE

REFER TO THE FACTORY SERVICE MANUAL FOR LIFT LOCATIONS.

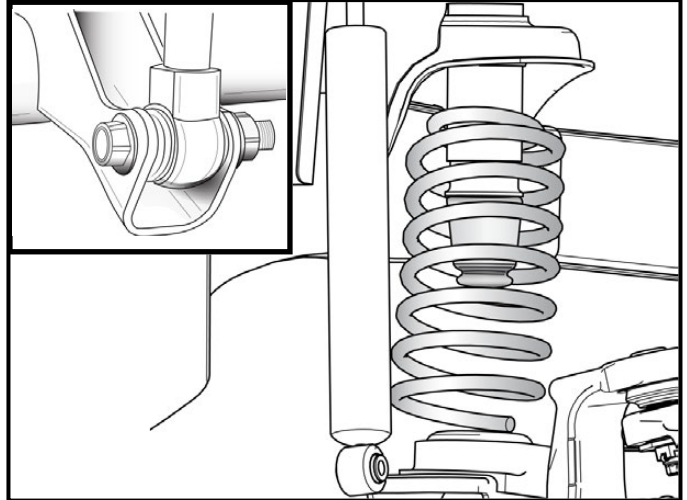
1. Raise and support the vehicle at the frame.
2. Remove the front tires and wheels.
3. Support the front axle with a jack or jack stands.
4. Remove the sway bar links at the axle.
5. Remove the track bar at the axle.



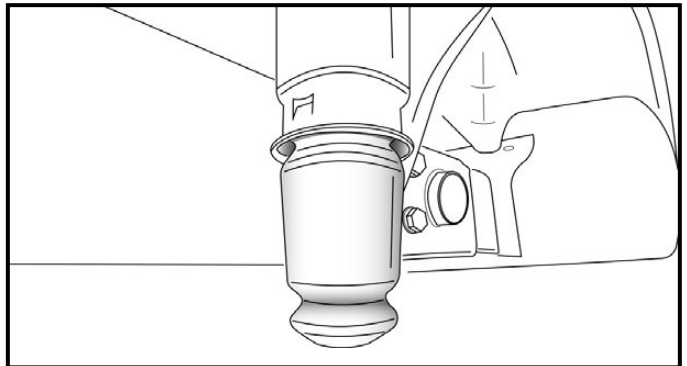
6. Remove the ABS/brake line anchor bracket from the frame (driver and passenger side).
7. Remove the breather hose and axle actuator from the axle. **NOTE:** On Rubicon models the locker actuator will need to be removed as well.



8. Remove the shock at the axle.
10. Lower the axle until the springs are free and remove the springs. **NOTE:** Watch brake lines and wiring harnesses while lowering axle.



10. Remove the front bumpstops.
11. Install the new Front Extended Bumpstops into the factory jounce tubes. **Note:** If needed use a small amount of silicone lube spray, to help install the bumpstops.

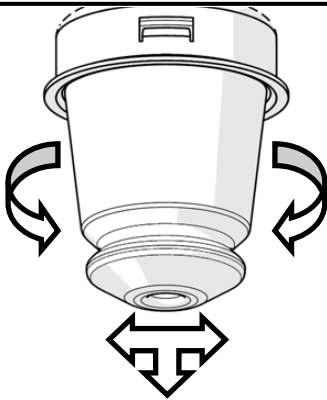


12. Reinstall the springs. **NOTE:** Check that the upper spring isolator is installed correctly with the locating pins aligned with holes in the upper spring mount.
13. Rotate the spring until pig tail end is fully seated into lower spring pads.
14. Raise the axle enough to reinstall the shocks. Torque shock bolts to 56 ft-lbs.
15. Reinstall sway bar links and torque bolts to 69 ft-lbs.

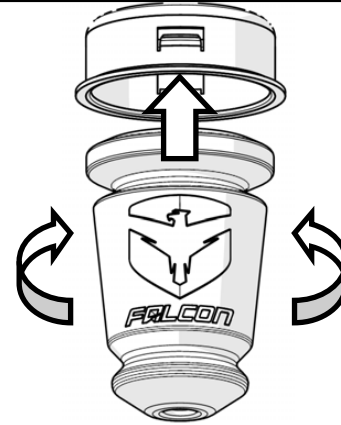
16. Reinstall brake line brackets, axle actuator plug and breather hose and any plastic retainers from wiring or hoses that were removed.  
Rubicon models: Reinstall locker actuator plug.
17. Reinstall the front wheels and tires and lower Jeep to the ground. Torque lug nuts to factory recommended specs.
18. Reinstall the front track bar and torque bolt to factory recommended specs.

#### **REAR AXLE**

19. Remove the bumpstop from the frame mount by simply pulling downward with a twisting motion.



20. Install new bumpstop by twisting and pushing up. Note: If needed use a small amount of silicone lube spray, to help install the bumpstops.



***CONFIRM THAT ALL BRACKETS  
ARE REINSTALLED AND FASTENERS  
TORQUED CORRECTLY BEFORE  
OPERATING THE JEEP.***

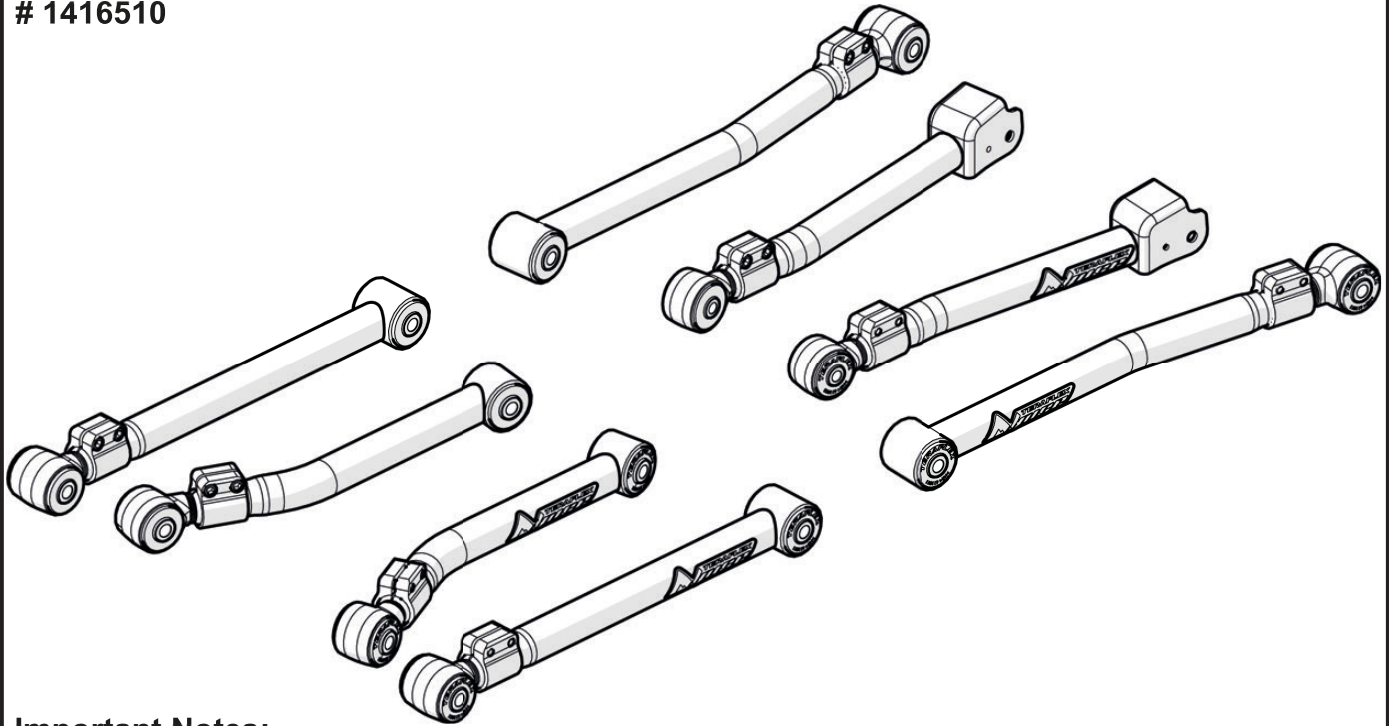
**INSTALLATION IS COMPLETE!**



# JL ALPINE SHORT CONTROL ARMS

# 1416610

# 1416510



## 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.

**When reinstalling OEM hardware, refer to the torque specs given in the Factory Service Manual.**

## Tools Needed:

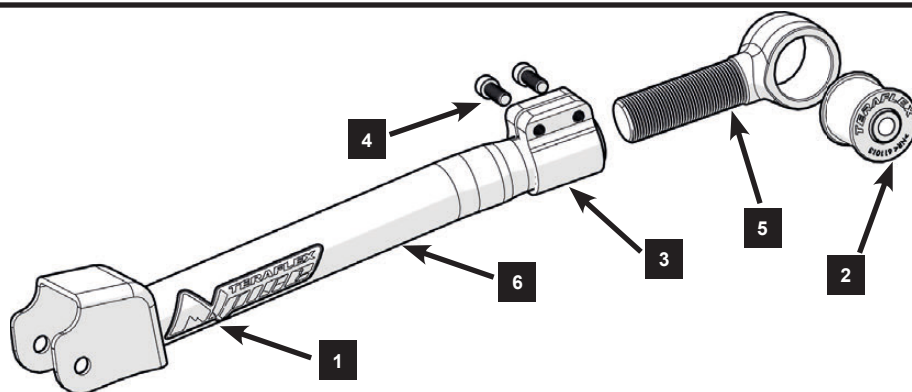
- Metric Sockets and Open End Wrenches
- Torque Wrench

- Factory Service Manual
- General Mechanics Tools

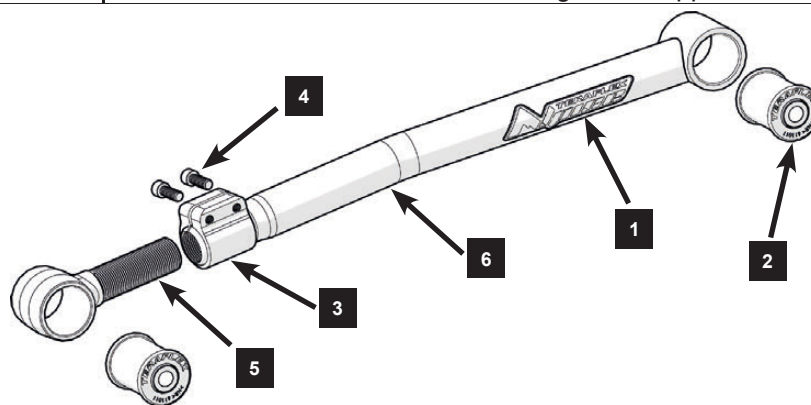
## Maintenance Note:

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

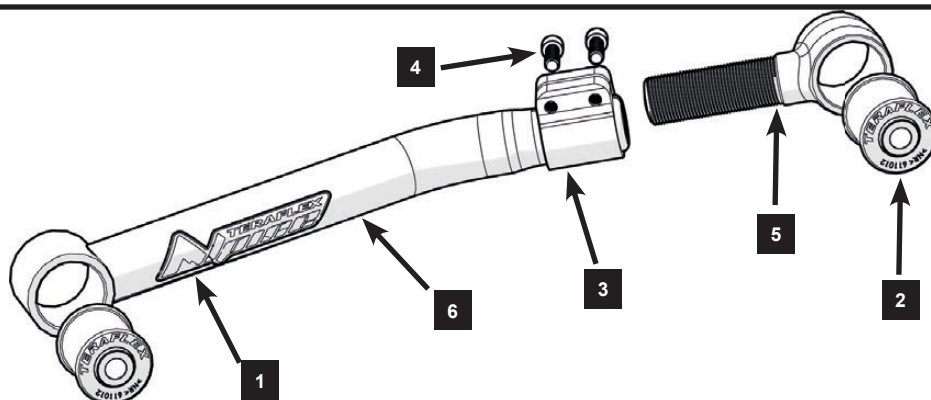




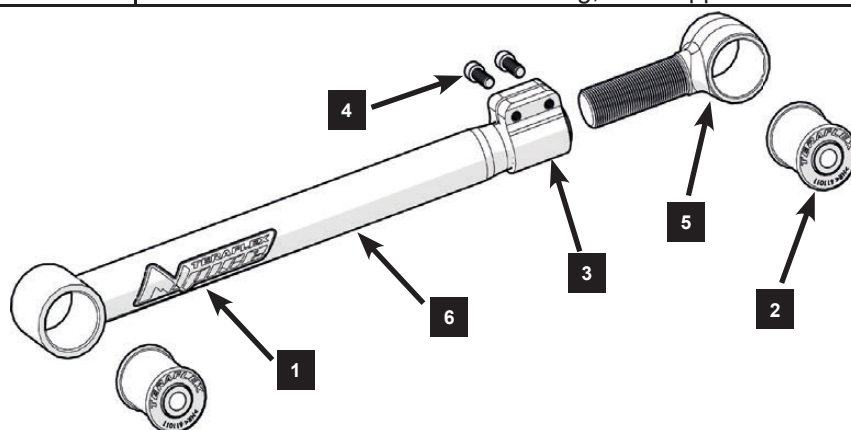
| Front Upper HD Adjustable Control Arms |               |                                                               |     |
|----------------------------------------|---------------|---------------------------------------------------------------|-----|
| Item #                                 | Part No.      | Description                                                   | QTY |
| 1                                      | 95-01-003-001 | Sticker, Teraflex, Alpine Arm, Polycarbonate                  | 1   |
| 2                                      | 611014        | Front Upper JL Control Arm Bushing Factory Replacement        | 1   |
| 3                                      | 107105        | Alpine Control Arm Aluminum Clamp                             | 1   |
| 4                                      | 414           | 3/8"-16x1" Socket Head Cap Screw                              | 2   |
| 5                                      | 116110        | JL Front Upper Forged Bushing Eyelet                          | 1   |
| 6                                      | 07-01-001-005 | Control Arm, Alpine / Jeep JL, Front / Upper / Left Assembly  | 1   |
|                                        | 07-01-001-006 | Control Arm, Alpine / Jeep JL, Front / Upper / Right Assembly |     |
| Alpine IR Bushings                     |               |                                                               |     |
| 1                                      | 36-01-002-001 | IR Badge, Teraflex                                            | 1   |
|                                        | 95-01-004-001 | Sticker, Teraflex, Alpine IR Arm, Polycarbonate               | 1   |
| 2                                      | 611017        | IR Revolver Rubber Bushing, Front Upper Arm                   | 1   |



| Front Lower HD Adjustable Control Arms |               |                                                               |     |
|----------------------------------------|---------------|---------------------------------------------------------------|-----|
| Item #                                 | Part No.      | Description                                                   | QTY |
| 1                                      | 95-01-003-001 | Sticker, Teraflex, Alpine Arm, Polycarbonate                  | 1   |
| 2                                      | 09-01-201-001 | Front Lower JL Control Arm Bushing Factory Replacement        | 2   |
| 3                                      | 107105        | Alpine Control Arm Aluminum Clamp                             | 1   |
| 4                                      | 414           | 3/8"-16x1" Socket Head Cap Screw                              | 2   |
| 5                                      | 116110        | JL Front Upper Forged Bushing Eyelet                          | 1   |
| 6                                      | 07-01-001-001 | Control Arm, Alpine / Jeep JL, Front / Lower / Left Assembly  | 1   |
|                                        | 07-01-001-002 | Control Arm, Alpine / Jeep JL, Front / Lower / Right Assembly |     |
| Alpine IR Bushings                     |               |                                                               |     |
| 1                                      | 36-01-002-001 | IR Badge, Teraflex                                            | 1   |
|                                        | 95-01-004-001 | Sticker, Teraflex, Alpine IR Arm, Polycarbonate               | 1   |
| 2                                      | 611020        | IR Rubber Bushing, Lower Control Arm                          | 2   |



| Rear Upper HD Adjustable Control Arms |               |                                                              |     |
|---------------------------------------|---------------|--------------------------------------------------------------|-----|
| Item #                                | Part No.      | Description                                                  | QTY |
| 1                                     | 95-01-003-001 | Sticker, Teraflex, Alpine Arm, Polycarbonate                 | 1   |
| 2                                     | 611012        | Rear Upper JL Control Arm Bushing                            | 2   |
| 3                                     | 107105        | Alpine Control Arm Aluminum Clamp                            | 1   |
| 4                                     | 414           | 3/8"-16x1" Socket Head Cap Screw                             | 2   |
| 5                                     | 116130        | JL Front Upper Forged Bushing Eyelet                         | 1   |
| 6                                     | 07-01-001-011 | Control Arm, Alpine / Jeep JL , Rear / Upper / Left Assembly | 1   |
|                                       | 07-01-001-012 | Control Arm, Alpine / Jeep JL, Rear / Upper / Right Assembly |     |
| Alpine IR Bushings                    |               |                                                              |     |
| 1                                     | 36-01-002-001 | IR Badge, Teraflex                                           | 1   |
|                                       | 95-01-004-001 | Sticker, Teraflex, Alpine IR Arm, Polycarbonate              | 1   |
| 2                                     | 611016        | IR Revolver Rubber Bushing, Rear Upper Arm                   | 2   |



| Rear Lower HD Adjustable Control Arms |               |                                                               |     |
|---------------------------------------|---------------|---------------------------------------------------------------|-----|
| Item #                                | Part No.      | Description                                                   | QTY |
| 1                                     | 95-01-003-001 | Sticker, Teraflex, Alpine Arm, Polycarbonate                  | 1   |
| 2                                     | 611011        | JL / JK Lower Control Arm Bushing                             | 2   |
| 3                                     | 107105        | Alpine Control Arm Aluminum Clamp                             | 1   |
| 4                                     | 414           | 3/8"-16x1" Socket Head Cap Screw                              | 2   |
| 5                                     | 116110        | JL / JK Rear Lower Forged Bushing Eyelet                      | 1   |
| 6                                     | 141542        | Alpine JL / JK Rear Lower Driver HD Adjustable Control Arm    | 1   |
|                                       | 141552        | Alpine JL / JK Rear Lower Passenger HD Adjustable Control Arm |     |
| Alpine IR Bushings                    |               |                                                               |     |
| 1                                     | 36-01-002-001 | IR Badge, Teraflex                                            | 1   |
|                                       | 95-01-004-001 | Sticker, Teraflex, Alpine IR Arm, Polycarbonate               | 1   |
| 2                                     | 611015        | IR Revolver Rubber Bushing, Rear Lower Arm                    | 2   |

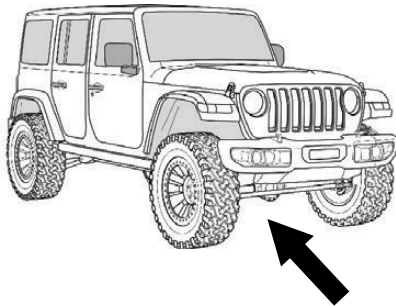
INSTALLATION OF THE CONTROL ARMS IS BEST DONE WITH ALL 4 TIRES OF THE JEEP ON THE GROUND. IF YOU PREFER TO RAISE THE JEEP FOR INSTALLATION REFER TO YOUR FACTORY SERVICE MANUAL FOR SAFE LIFTING LOCATIONS AND PROCEDURES.

**\*NOTE: DO NOT REMOVE MORE THAN TWO CONTROL ARMS AT A TIME\***

## FRONT LOWER CONTROL ARMS

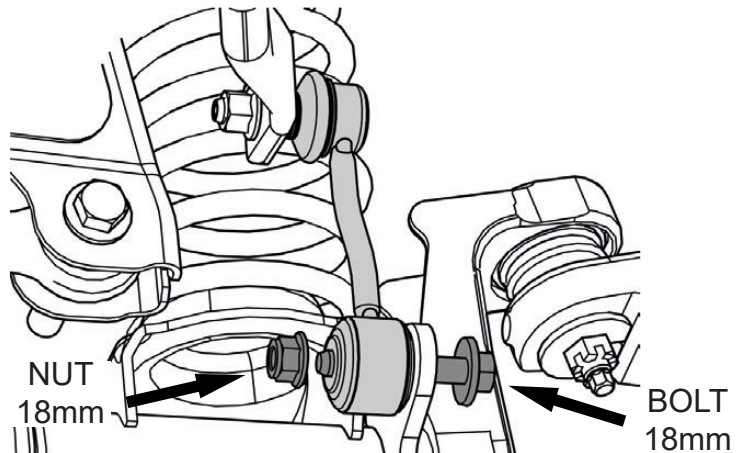
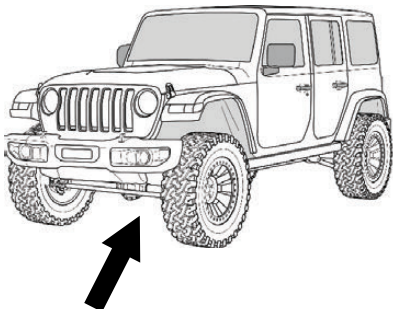
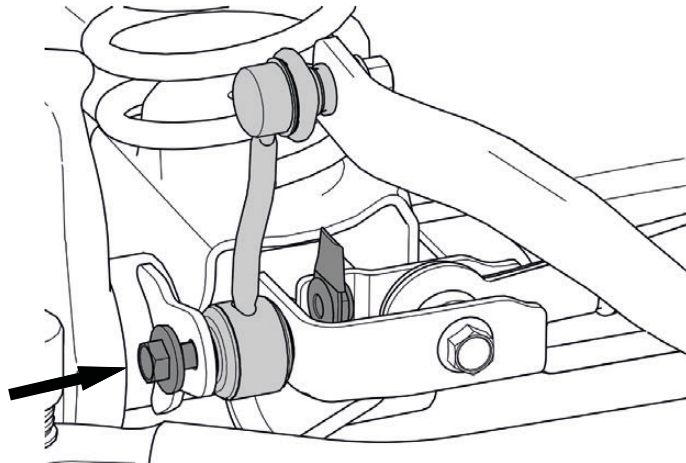
**NOTE: THE FRONT LOWER SHOCK BOLTS ARE SLIGHTLY TOO LONG AND WILL MAKE CONTACT WITH THE ALPINE CONTROL ARMS. TO FIX THIS ISSUE SWAP THE LOWER SHOCK BOLTS WITH THE LOWER SWAY BAR LINK BOLTS.**

### REMOVE THE SWAY BAR LINK BOLTS AT THE AXLE

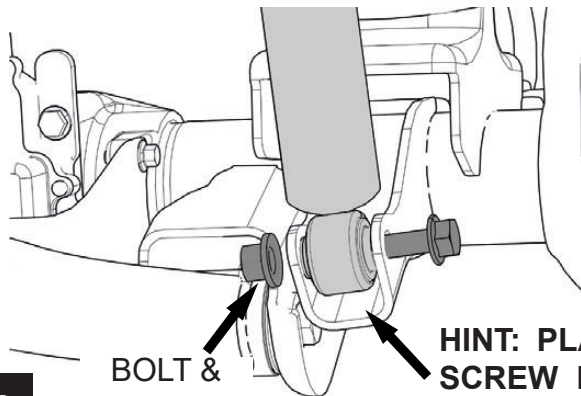


1

BOLT  
18mm



**REMOVE THE FRONT LOWER SHOCK BOLTS AND REPLACE WITH THE LOWER SWAY BAR LINK BOLTS**



**2**

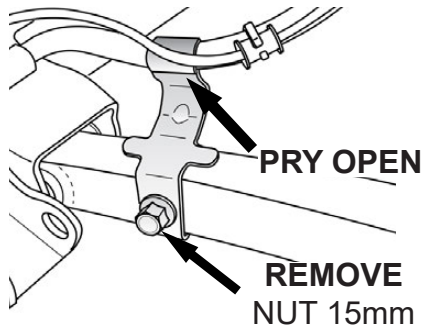
BOLT &  
NUT 18mm

**HINT: PLACE A PRY BAR OR  
SCREW DRIVER UNDER THE  
SHOCK TO HELP SWAP BOLTS**

**ONCE THE BOLTS HAVE BEEN  
SWAPPED TORQUE THE SWAY  
BAR LINK BOLTS TO 59 FT-LBS  
AND THE LOWER SHOCK BOLTS  
TO 74 FT-LBS**

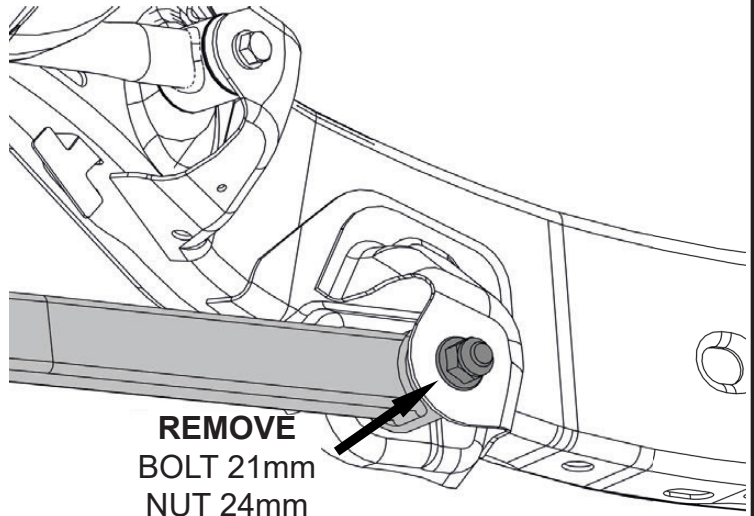
**REMOVE THE FRAME SIDE LOWER CONTROL ARM BOLT**

**REMOVE AND DISCARD THE  
BRAKE LINE BRACKETS FROM  
THE CONTROL ARMS AND BRAKE  
LINES**



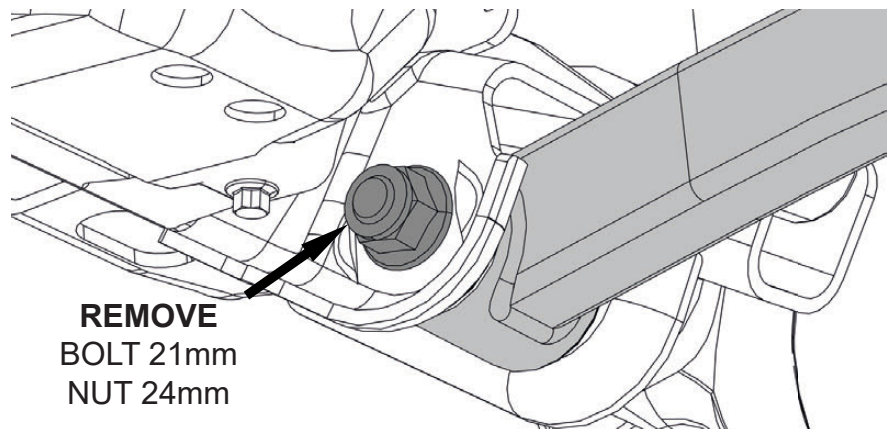
**3**

PRY OPEN  
REMOVE  
NUT 15mm



REMOVE  
BOLT 21mm  
NUT 24mm

**REMOVE THE AXLE SIDE LOWER CONTROL ARM BOLT**



REMOVE  
BOLT 21mm  
NUT 24mm

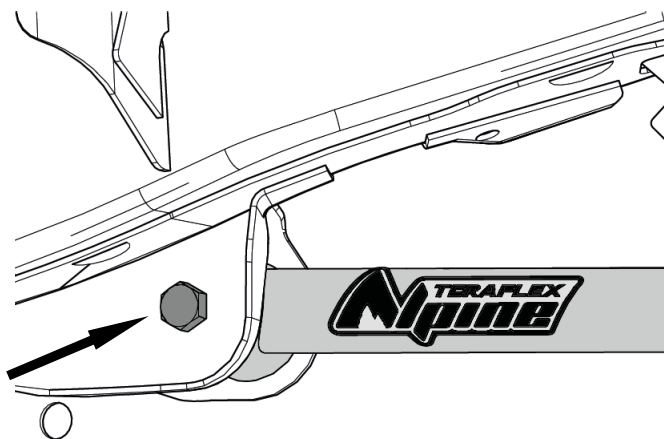
**4**



INSTALL THE FIXED END OF THE ALPINE CONTROL ARM TO THE FRAME WITH THE STICKER FACING OUT. LEAVE FINGER TIGHT.

DO NOT TORQUE THE CONTROL ARMS TIGHT UNTIL THE END OF THE INSTALLATION.

TORQUE  
BOLT 21mm  
NUT 24mm  
103 Ft Lbs + 145°



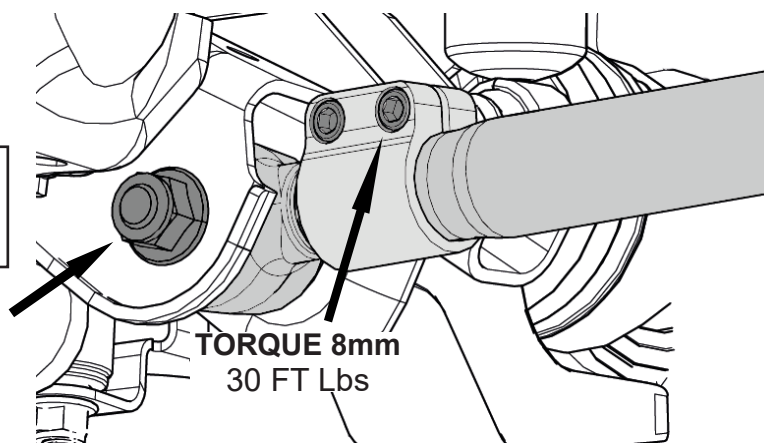
5

LOOSEN THE CLAMP AND EXTEND THE CONTROL ARM TO THE RECOMMENDED LENGTH. INSTALL THE CONTROL ARM INTO THE AXLE MOUNT.

REFER TO PAGE 11 FOR  
RECOMMENDED CONTROL  
ARM LENGTHS.

DO NOT TORQUE THE CONTROL  
ARMS TIGHT UNTIL THE END OF  
THE INSTALLATION.

TORQUE  
BOLT 21mm  
NUT 24mm  
103 Ft Lbs + 145°

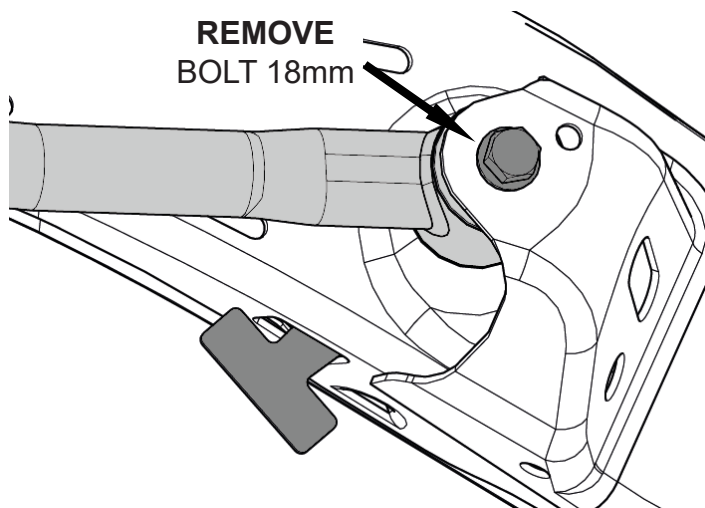


6

## FRONT UPPER CONTROL ARMS

REMOVE THE FRAME SIDE UPPER CONTROL ARM HEAT SHEILD AND BOLT

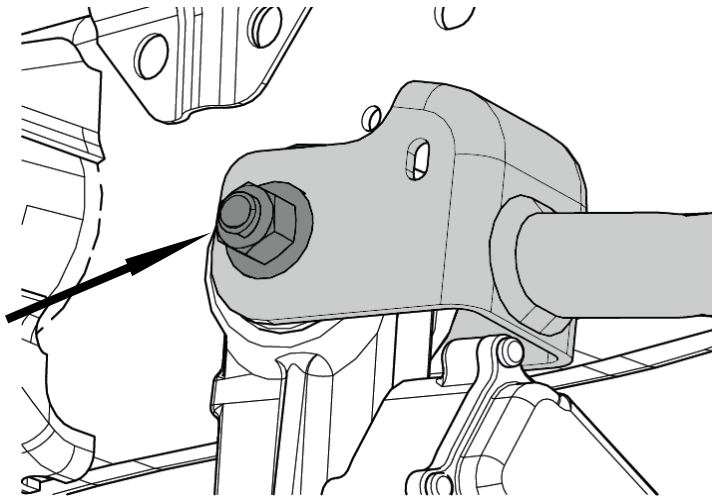
REMOVE  
BOLT 18mm



7

**REMOVE THE AXLE SIDE UPPER CONTROL ARM BOLT**

**REMOVE  
BOLT 18mm  
NUT 18mm**

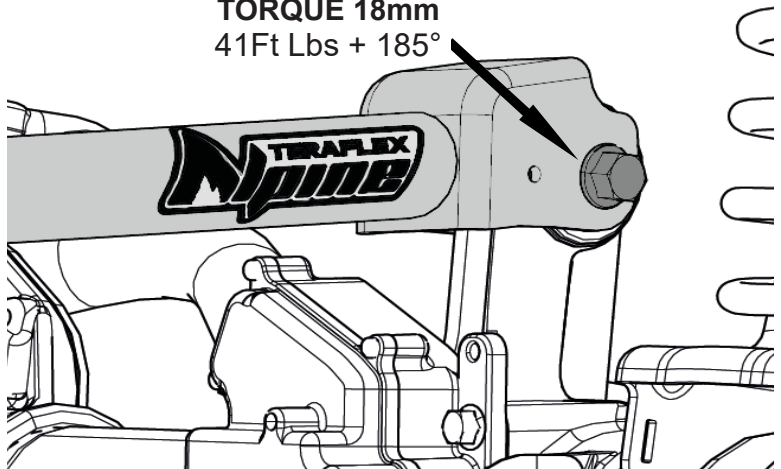


**8**

**INSTALL THE FIXED END OF THE ALPINE CONTROL ARM TO THE AXLE WITH THE STICKER FACING OUT. LEAVE FINGER TIGHT.**

**DO NOT TORQUE THE CONTROL ARMS TIGHT UNTIL THE END OF THE INSTALLATION.**

**TORQUE 18mm  
41Ft Lbs + 185°**



**9**

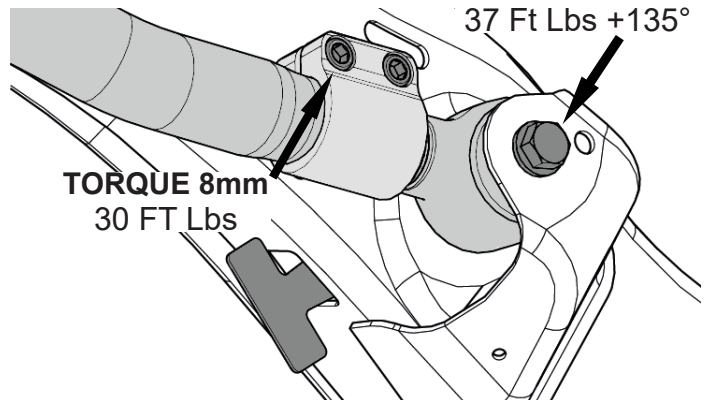
**LOOSEN THE CLAMP AND EXTEND THE CONTROL ARM TO THE RECOMMENDED LENGTH. INSTALL THE CONTROL ARM INTO THE FRAME MOUNT WITH THE HEAT SHIELD.**

**REFER TO PAGE 11 FOR  
RECOMMENDED CONTROL  
ARM LENGTHS.**

**DO NOT TORQUE THE CONTROL ARMS TIGHT UNTIL THE END OF THE INSTALLATION.**

**TORQUE 18mm  
37 Ft Lbs +135°**

**TORQUE 8mm  
30 FT Lbs**



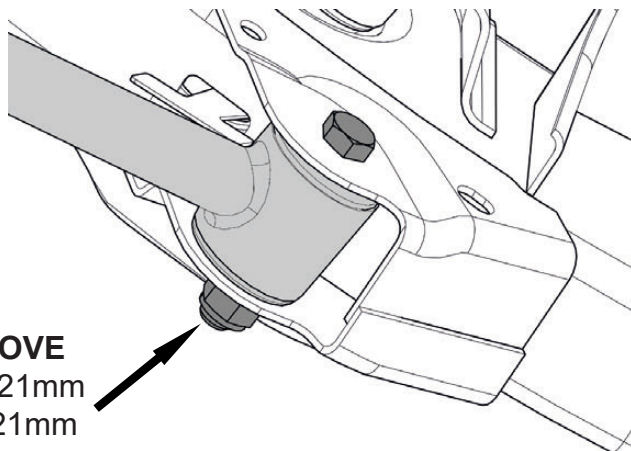
**10**

## REAR LOWER CONTROL ARMS

### REMOVE THE FRAME SIDE LOWER CONTROL ARM BOLT

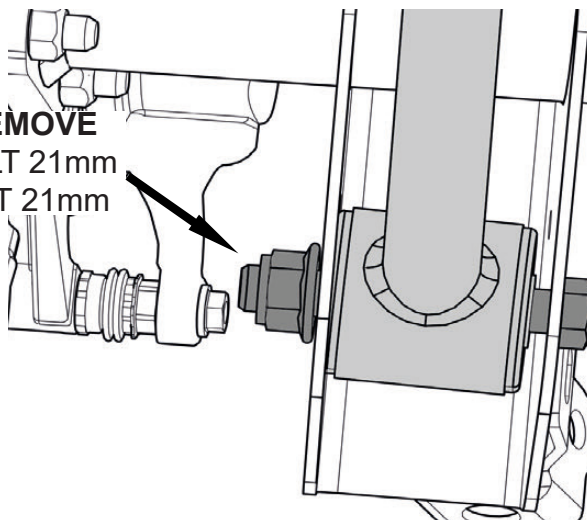
11

REMOVE  
BOLT 21mm  
NUT 21mm



### REMOVE THE AXLE SIDE LOWER CONTROL ARM BOLT

REMOVE  
BOLT 21mm  
NUT 21mm

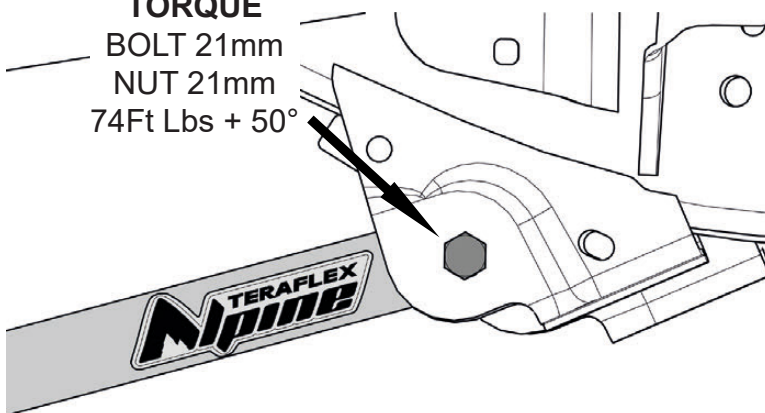


12

INSTALL THE FIXED END OF THE ALPINE CONTROL ARM TO THE FRAME WITH THE STICKER FACING OUT. LEAVE FINGER TIGHT.

DO NOT TORQUE THE CONTROL ARMS TIGHT UNTIL THE END OF THE INSTALLATION.

TORQUE  
BOLT 21mm  
NUT 21mm  
74Ft Lbs + 50°



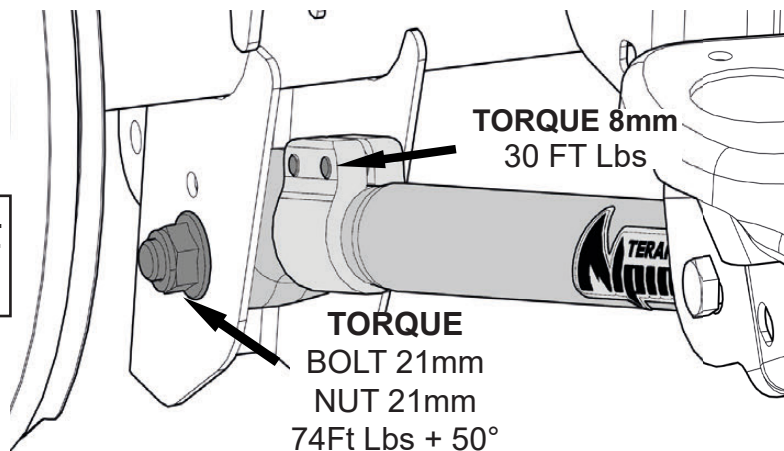
13

LOOSEN THE CLAMP AND EXTEND THE CONTROL ARM TO THE RECOMMENDED LENGTH. INSTALL THE CONTROL ARM INTO THE AXLE MOUNT.

REFER TO PAGE 11 FOR  
RECOMENDED CONTROL ARM  
LENGTHS.

DO NOT TORQUE THE CONTROL  
ARMS TIGHT UNTIL THE END OF  
THE INSTALLATION.

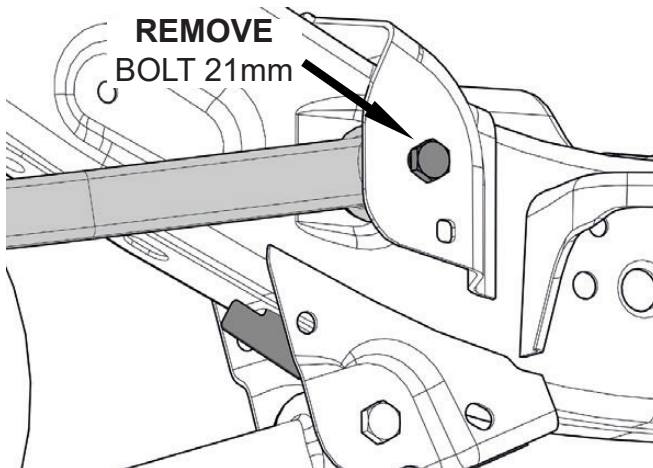
14



## REAR UPPER CONTROL ARMS

REMOVE THE FRAME SIDE UPPER CONTROL ARM BOLT

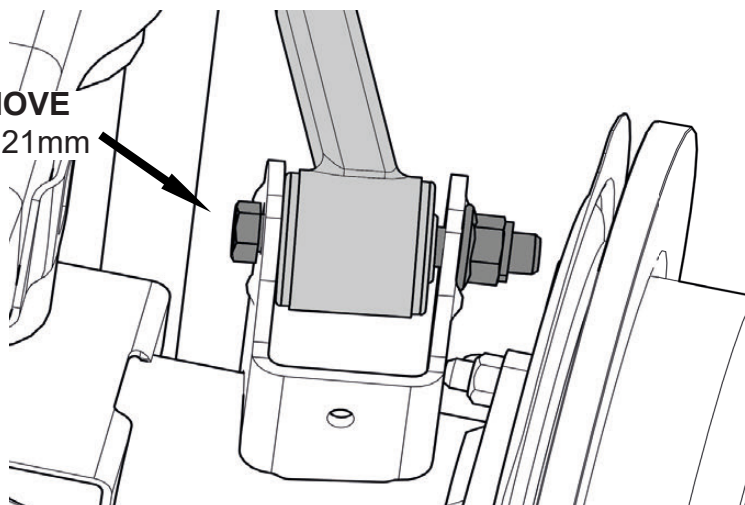
REMOVE  
BOLT 21mm



15

REMOVE THE AXLE SIDE UPPER CONTROL ARM BOLT

REMOVE  
BOLT 21mm

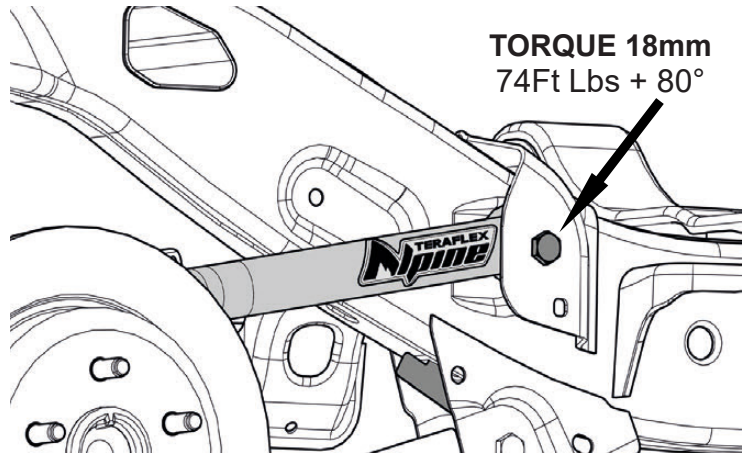


16



**INSTALL THE FIXED END OF THE ALPINE CONTROL ARM TO THE FRAME WITH THE STICKER FACING OUT. LEAVE FINGER TIGHT.**

**DO NOT TORQUE THE CONTROL ARMS TIGHT UNTIL THE END OF THE INSTALLATION.**



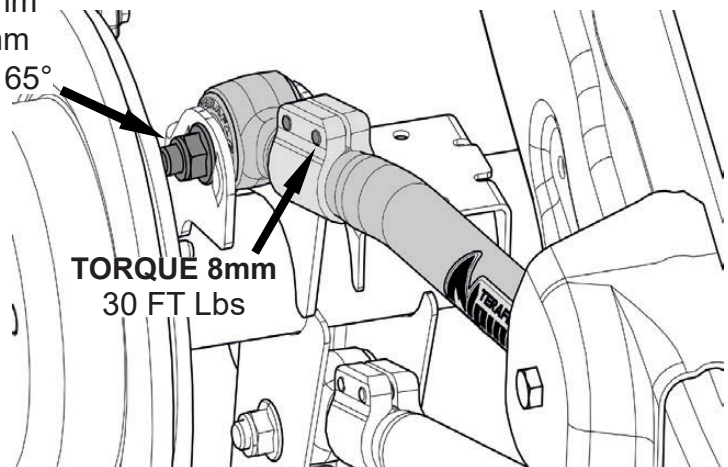
**17**

**LOOSEN THE CLAMP AND EXTEND THE CONTROL ARM TO THE RECOMMENDED LENGTH. INSTALL THE CONTROL ARM INTO THE AXLE MOUNT.**

**TORQUE**  
BOLT 21mm  
NUT 21mm  
74Ft Lbs + 65°

**REFER TO PAGE 11 FOR  
RECOMMENDED CONTROL  
ARM LENGTHS.**

**DO NOT TORQUE THE CONTROL  
ARMS TIGHT UNTIL THE END OF  
THE INSTALLATION.**



**18**

**NOTE:**

**\* IF YOU ARE INSTALLING CONTROL ARMS WITH ALPINE BUSHINGS AND THE JEEP WAS RAISED FOR INSTALLATION, LOWER THE JEEP TO THE GROUND AND FINISH THE INSTALLATION BY TORQUING THE CONTROL ARMS.**

**\* IF YOU ARE INSTALLING CONTROL ARMS WITH THE ALPINE IR BUSHINGS THE CONTROL ARMS CAN BE TORQUED WITH THE JEEP RAISED IN THE AIR.**

## RECOMMENDED CONTROL ARM STARTING LENGTHS

**NOTE: THESE ARE ONLY RECOMMENDED STARTING LENGTHS!! EACH JEEP IS DIFFERENT AND MAY NEED TO HAVE THE CONTROL ARM LENGTHS CHANGED FOR PROPER FUNCTION AND SAFE DRIVING.**

|              |             | Lift Height |             |            |             |            |             |
|--------------|-------------|-------------|-------------|------------|-------------|------------|-------------|
|              |             | 2.5" Lift   |             | 3.5" Lift  |             | 4.5" Lift  |             |
|              |             | All 8 Arms  | Single Pair | All 8 Arms | Single Pair | All 8 Arms | Single Pair |
| Control Arms | Front Lower | 24 1/8"     | 24 1/4"     | 24 5/16"   | 24 7/16"    | 24 1/2"    | 24 5/8"     |
|              | Front Upper | 20"         | 20 1/8"     | 20 3/16"   | 20 1/8"     | 20 3/8"    | 20 1/8"     |
|              | Rear Lower  | 20 1/4"     | 19 5/8"     | 20 7/16"   | 19 13/16"   | 20 5/8"    | 20"         |
|              | Rear Upper  | 17 5/8"     | 17 3/8"     | 17 13/16"  | 17 3/8"     | 18"        | 17 3/8"     |

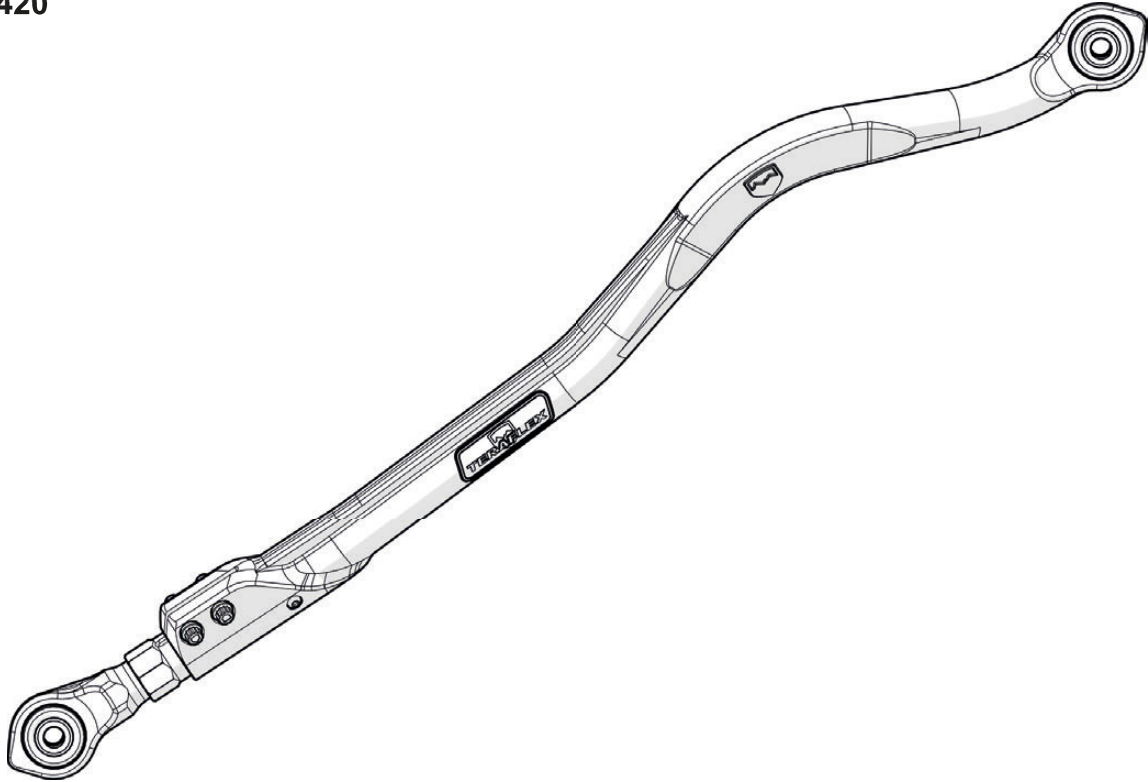
### NOTE:

- \* IF USING FRONT DROP BRACKETS (PN# 1938125), USE THE FACTORY ARM MEASUREMENT AS A STARTING LENGTH FOR THE FRONT LOWER ARMS.
- \* IF INSTALLING A SINGLE PAIR OF ARMS TO CORRECT CASTER AND PINION ANGLE, WE RECOMMEND REPLACING THE LOWER ARMS.



# JL Adjustable Front Track Bar

# 1753420



## 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.

**When reinstalling OEM hardware, refer to the torque specs given in the Factory Service Manual.**

## Tools Needed:

- Metric Sockets and Open End Wrenches
- Torque Wrench

- Factory Service Manual
- General Mechanics Tools

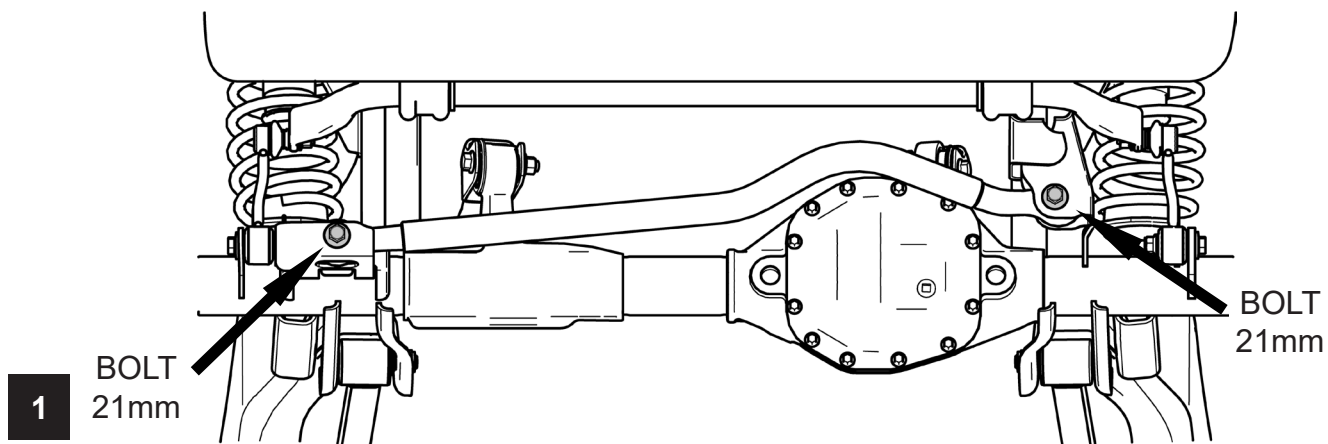
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## Maintenance Note:

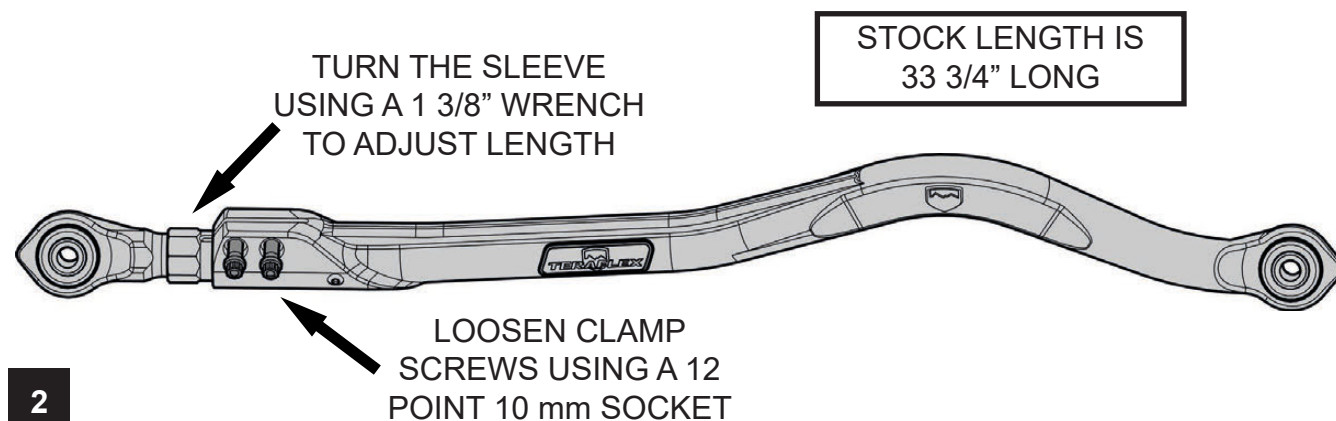
After the first 300 miles and every 3,000 miles after that, re-torque all the suspension components and bolts.

**REMOVE THE STOCK TRACK BAR STARTING WITH THE FRAME SIDE THEN THE AXLE SIDE**

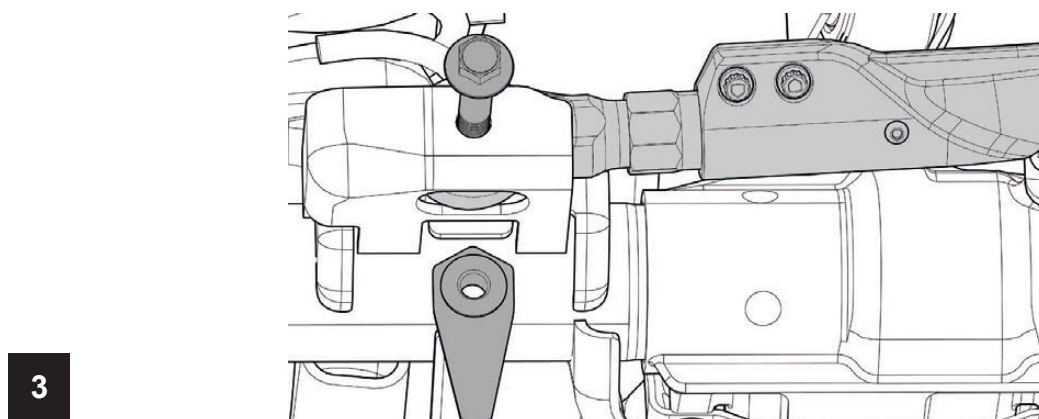
**NOTE: INSTALLATION OF THE FRONT JL TRACK BAR IS BEST COMPLETED WITH THE JEEP LEFT ON LEVEL GROUND**



**ADJUST THE NEW TRACK BAR TO THE APPROXIMATE LENGTH NEEDED TO CENTER THE AXLE UNDER THE JEEP**



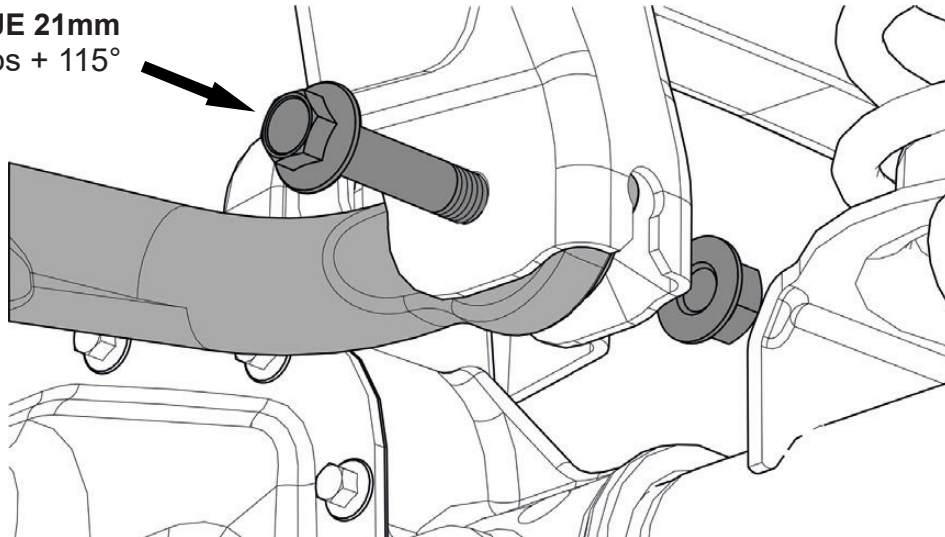
**LOOSELY INSTALL THE TRACK BAR ONTO THE AXLE WITH THE STOCK HARDWARE**





**INSTALL THE TRACK BAR ONTO THE FRAME USING THE STOCK HARDWARE.  
HAVE SOMEONE TURN THE STEERING WHEEL TO ALIGN THE HOLE OR USE A  
RATCHET STRAP**

**TORQUE 21mm  
52Ft Lbs + 115°**



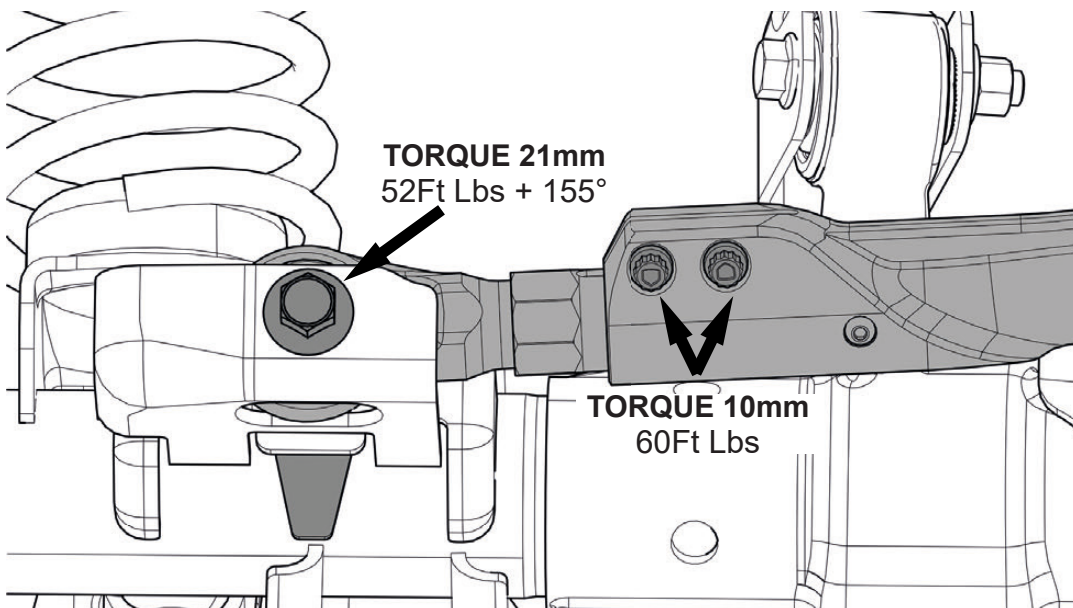
**4**

**VERIFY THAT THE AXLE IS CENTERED UNDER THE JEEP AND ADJUST AS NEEDED.  
ONCE THE AXLE IS CENTERED UNDER THE JEEP TIGHTEN THE CLAMP SCREWS AND  
ADJUST THE DRAG LINK TO STRAIGHTEN THE STEERING WHEEL IF NEEDED.**

**NOTE: DEPENDING ON WHAT TOOLS YOU HAVE TO WORK WITH YOU MAY NEED TO  
REMOVE THE TRACK BAR FROM THE AXLE TO TORQUE THE CLAMP SCREWS**

**TORQUE 21mm  
52Ft Lbs + 155°**

**TORQUE 10mm  
60Ft Lbs**



**5**

# ***TERAFLEX***

## **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 alignment, steering system, suspension and drive line systems must be inspected by a qualified professional mechanic at least every 3000 miles.

On our website you can discover more about performance suspension parts.