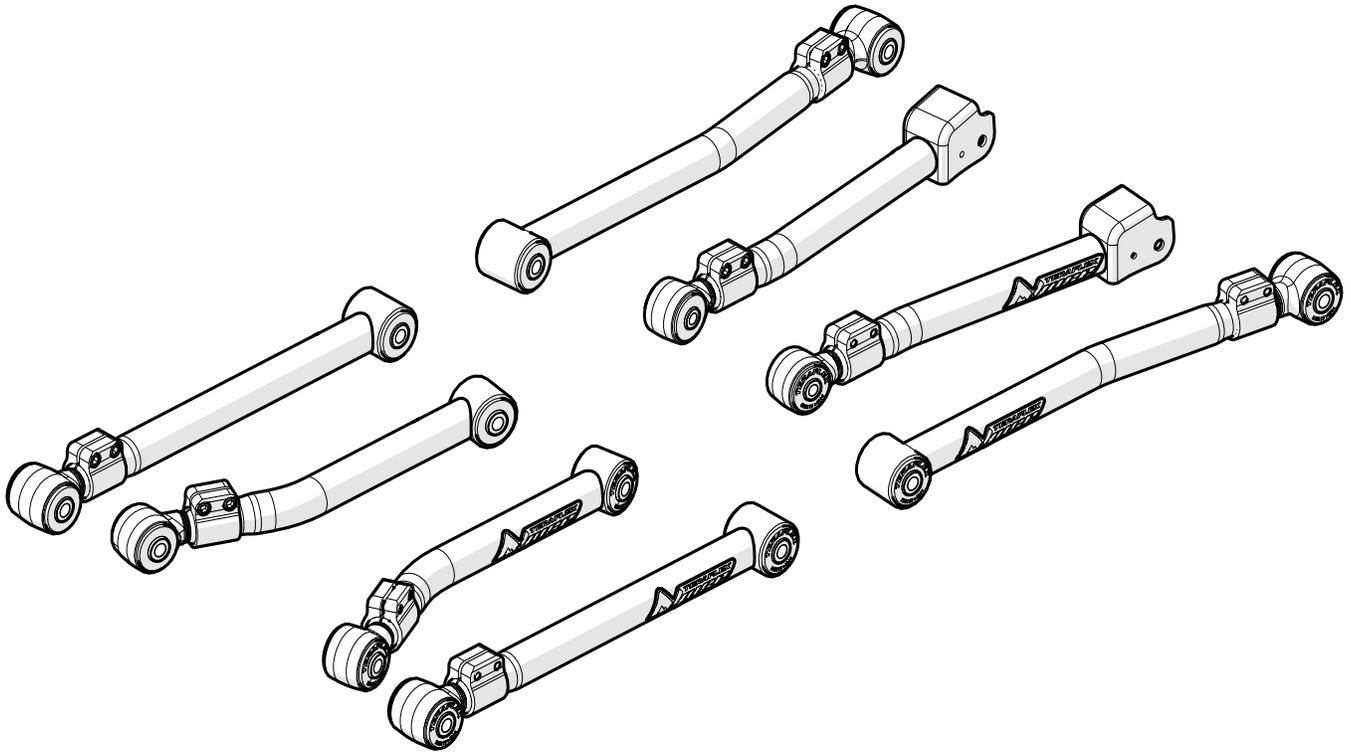




JK Alpine Short Control Arms

www.teraflex.com

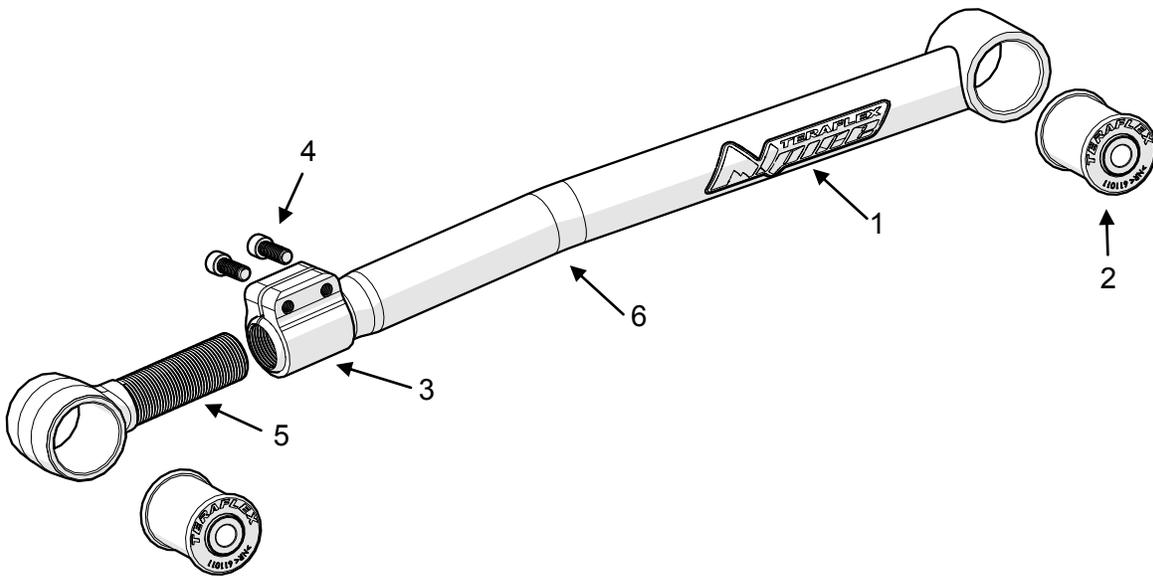


Important Notes:

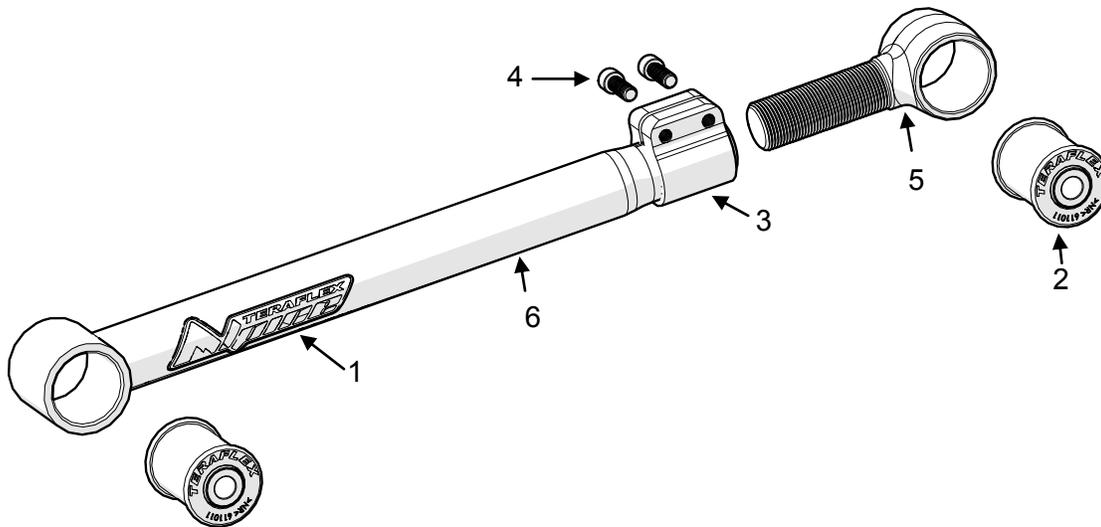
Prior to beginning this or any installation read these instructions to familiarize yourself with the required steps and evaluate if you are experienced and capable to personally perform these modifications. A factory service manual should be used in conjunction with these installation instructions.

Tools needed:

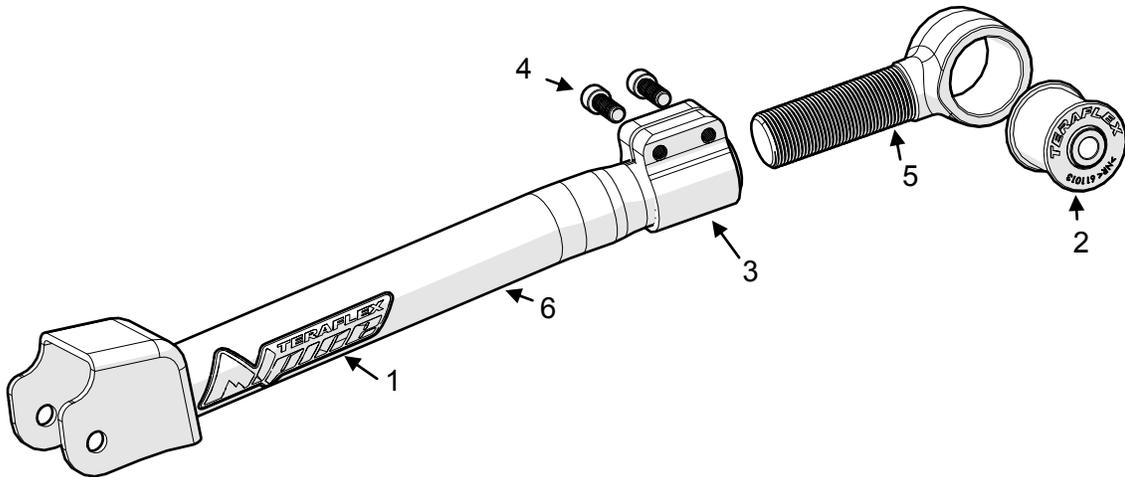
- This installation guide
- Basic mechanics tool set



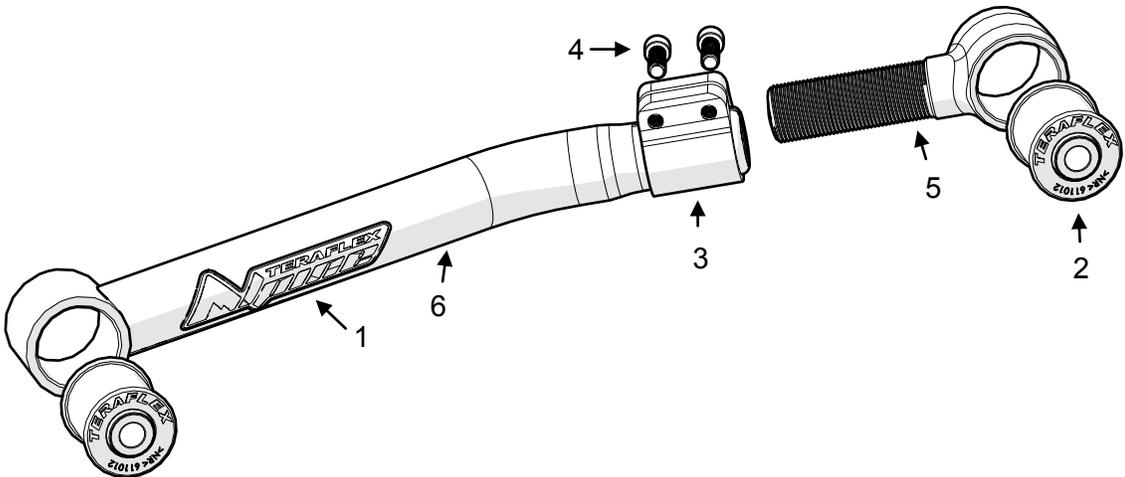
Parts List-141500/141510 Front Lower Control Arms			
Item Number	Part Number	Description	Quantity
1	796	Teraflex Alpine Control Arm Decal	1
2	611011	JK Lower Control Arm Bushing	2
3	107105	Alpine Control Arm Aluminum Clamp	1
4	414	3/8"-16 x1" Socket Head Cap Screw	2
5	116100	JK Front Lower Forged Bushing Eyelet	1
6	141503/141513	Alpine JK Front Lower Driver/Passenger HD Adjustable Control Arm	1



Parts List-141540/141550 Rear Lower Control Arms			
Item Number	Part Number	Description	Quantity
1	796	Teraflex Alpine Control Arm Decal	1
2	611011	JK Lower Control Arm Bushing	2
3	107105	Alpine Control Arm Aluminum Clamp	1
4	414	3/8"-16 x1" Socket Head Cap Screw	2
5	116120	JK Rear Lower Forged Bushing Eyelet	1
6	141543/141553	Alpine JK Rear Lower Driver/Passenger HD Adjustable Control Arm	1



Parts List-141520/141530 Front Upper Control Arms			
Item Number	Part Number	Description	Quantity
1	796	Teraflex Alpine Control Arm Decal	1
2	611014	Front Upper JK Control Arm Bushing Factory Replacement	1
3	107105	Alpine Control Arm Aluminum Clamp	1
4	414	3/8\"-16 x1\" Socket Head Cap Screw	2
5	116110	JK Front Upper Forged Bushing Eyelet	1
6	141523/141533	Alpine JK Rear Lower Driver/Passenger HD Adjustable Control Arm	1

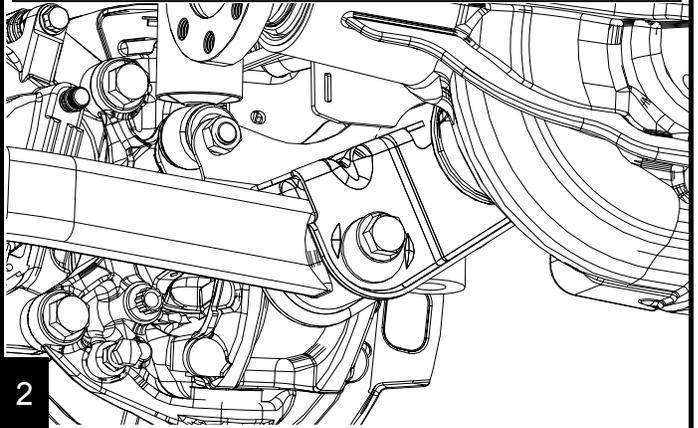


Parts List-141560/141570 Rear Upper Control Arms			
Item Number	Part Number	Description	Quantity
1	796	Teraflex Alpine Control Arm Decal	1
2	611012	Rear Upper JK Control Arm Bushing	2
3	107105	Alpine Control Arm Aluminum Clamp	1
4	414	3/8\"-16 x1\" Socket Head Cap Screw	2
5	116130	JK Rear Upper Forged Bushing Eyelet	1
6	141563/141573	Alpine JK Rear Upper Driver/Passenger HD Adjustable Control Arm	1

Front Lower Control Arms

With a 21mm, remove the axle side bolt. If your vehicle is equipped with cam washers, they will be reused.

Raise and support the vehicle. Remove the wheels and tires. See the factory service manual for safe support locations. Do not remove more than 2 arms at a time.

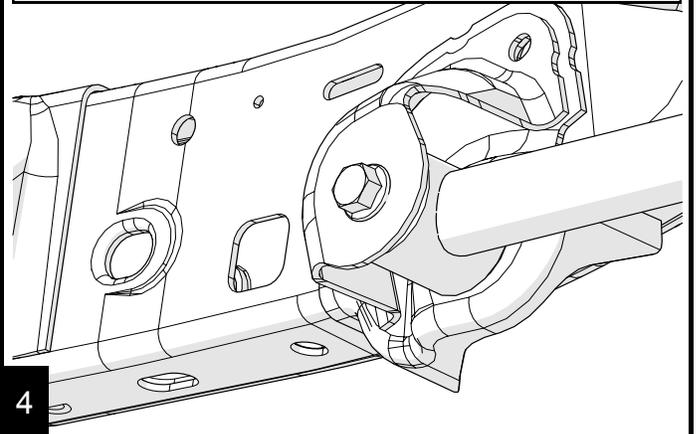
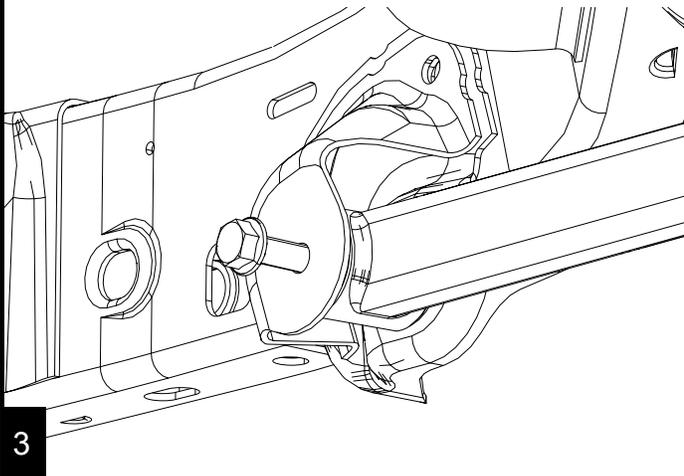


1

2

Remove the frame side bolt and then the control arm with a 21mm. Repeat on remaining front lower arm.

Lengthen the new Alpine arm to 23 1/8". Install the fixed end into the frame side bracket with the sticker facing outwards. Install the bolt **finger tight**.

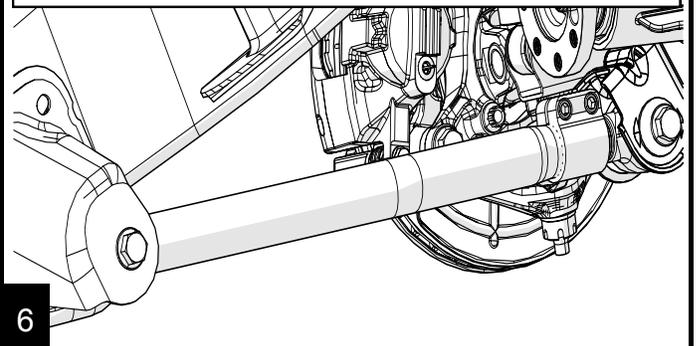
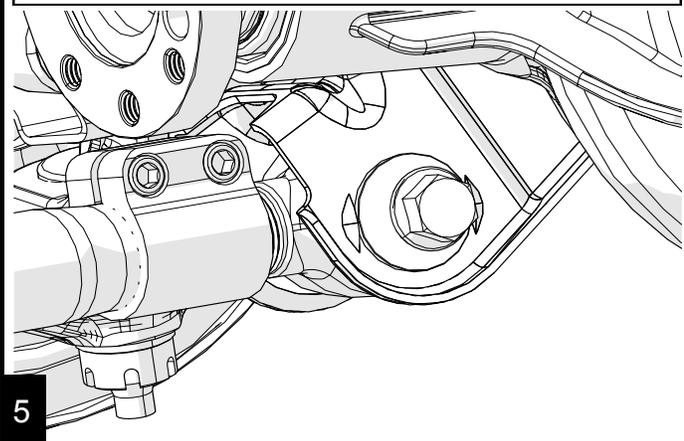


3

4

Install the adjustable end into the axle side bracket. If your vehicle has cam-bolts, either use cam-bolt eliminator washers or rotate the cam to the full forward position as shown.

After the vehicle is on the ground and at ride height, torque the axle side bolt to 117 ft-lbs (159 Nm) and the frame side bolt to 125 ft-lbs (169 Nm). Next, gradually tighten the aluminum clamp bolts equally until a final torque of 30 ft-lbs (41 Nm) is achieved. Go back and forth between the clamp bolts a couple times to ensure proper torque.

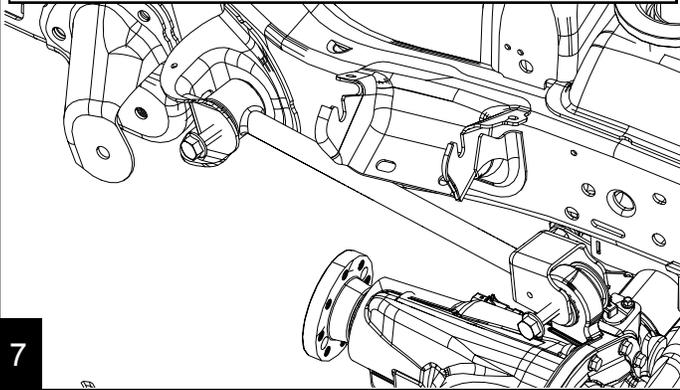


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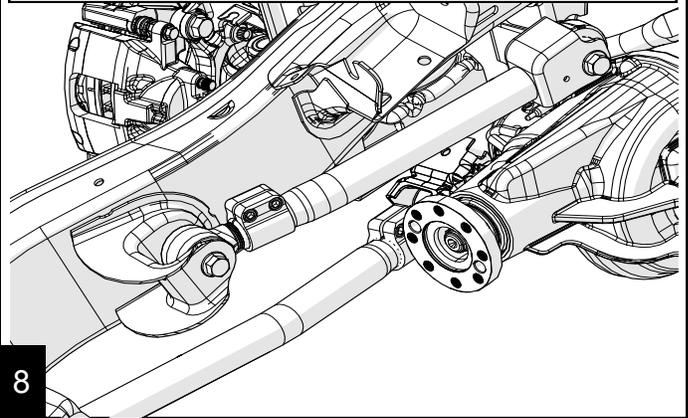
Front Upper Control Arms

Remove any wiring attached to the upper control arms.
Remove the axle side and frame side bolts with a 21mm.
Remove both upper control arms.



7

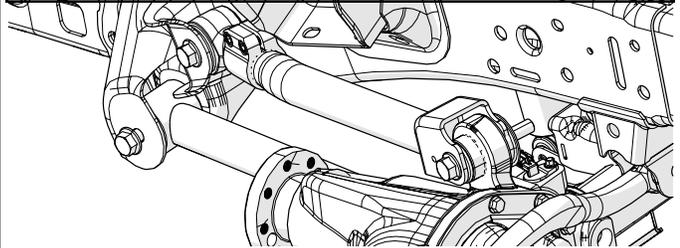
Lengthen the new Alpine arm to 18 7/8". Install the adjustable end into the frame side with the decal facing outwards. Install all bolts **finger tight**.



8

Reattach any removed wiring.

NOTE: IF YOU ARE INSTALLING CONTROL ARMS WITH THE TERAFLIX ALPINE IR BUSHINGS THE CONTROL ARMS CAN BE TORQUED WITHOUT THE JEEP BEING ON THE GROUND.

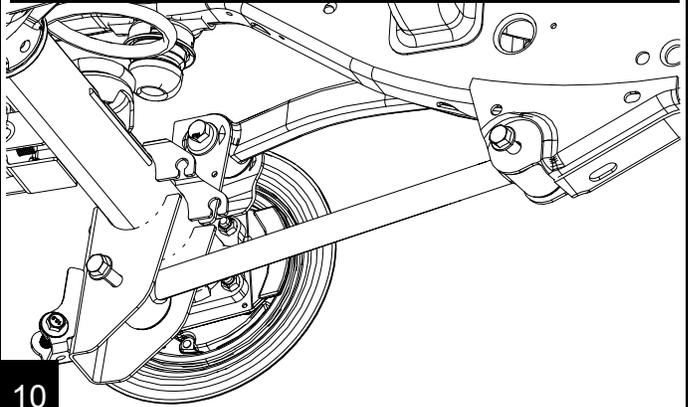


9

For all other kits **DO NOT** completely tighten any joint or bushing until the Jeep is on the ground. This is important for bushing life, flex and ride quality.

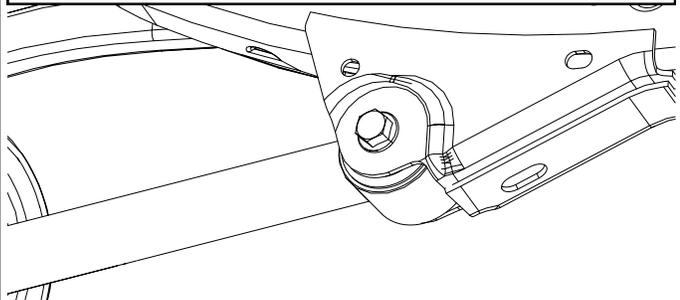
Rear Lower Control Arms

Support the pinion and remove the axle side and frame side bolts with a 21mm. Remove both lower control arms.



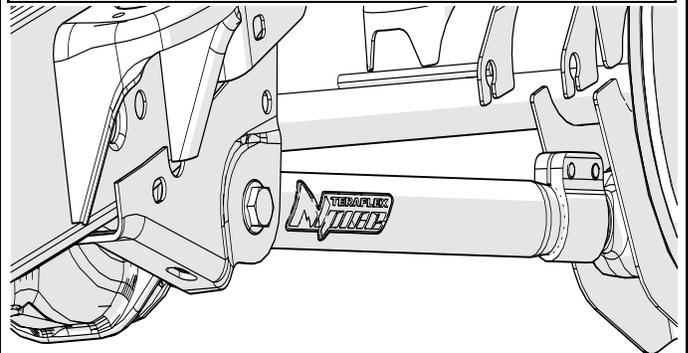
10

Lengthen the new Alpine arm to 20 1/8" for 2 door models and 20 1/2" for 4 door models. Torque the aluminum clamp bolts to 30 ft-lbs (41 Nm). Install the arm with the fixed end on the frame side. Install all bolts **finger tight**.



11

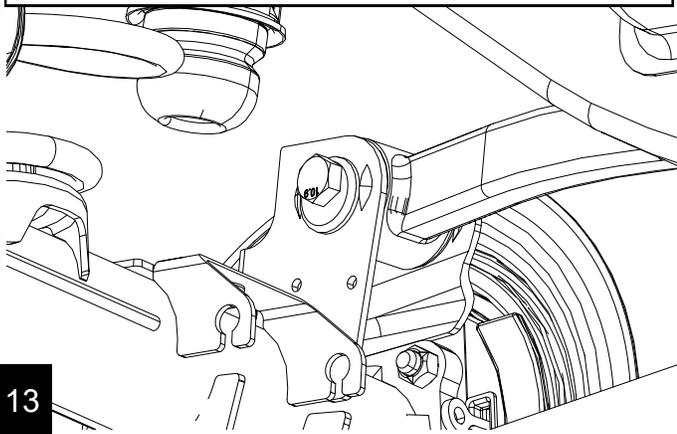
After the vehicle is on the ground, torque all bolts to 125 ft-lbs (169 Nm)



12

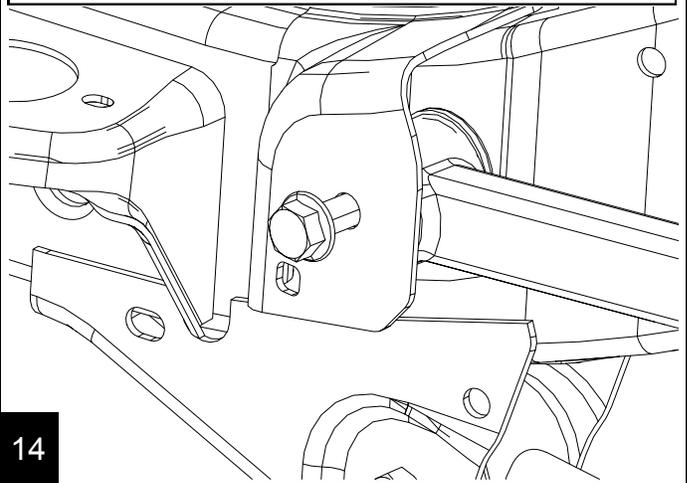
Rear Upper Control Arms

Remove the axle side bolt with an 18mm. If your vehicle is equipped with cam washers, they will be reused.



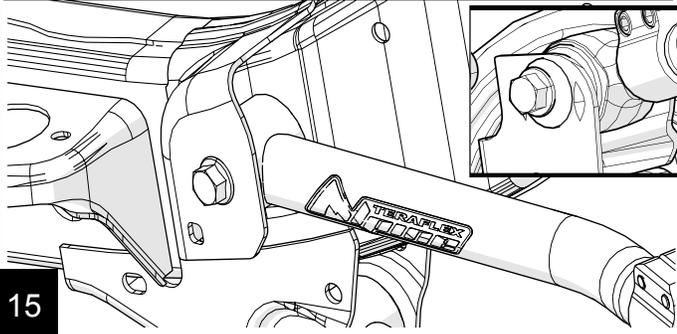
13

Remove the frame side bolt with an 18mm and remove the arm.



14

Lengthen the new Alpine arm to 18 5/16" for 2 door models and 18 1/2" for 4 door models. Install the fixed end into the frame side bracket with the decal facing out. Install the adjustable end into the axle side bracket. If your vehicle has cam washers, rotate the washer to the full rear position.



15

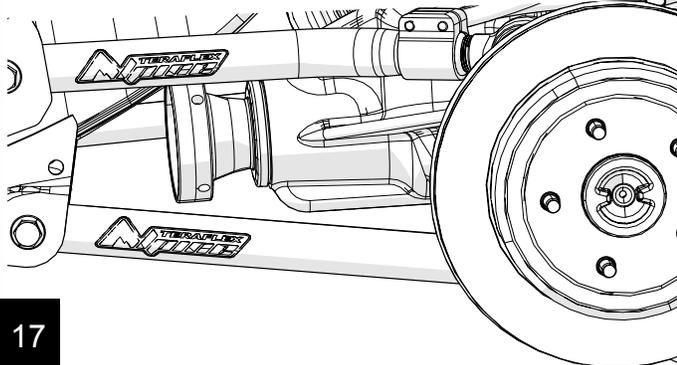
NOTE: IF YOU ARE INSTALLING CONTROL ARMS WITH THE TERAFLIX ALPINE IR BUSHINGS THE CONTROL ARMS CAN BE TORQUED WITHOUT THE JEEP BEING ON THE GROUND.

For all *other kits* **DO NOT** completely tighten any joint or bushing until the Jeep is on the ground. This is important for bushing life, flex and ride quality.

Reinstall the wheels and tires. Torque lug nuts to factory recommended specs and lower the Jeep to the ground.

16

Front and Rear Trackbars	125 ft-lbs	169Nm
Front Upper Control Arms	75 ft-lbs	102Nm
Rear Upper Control Arms	125 ft-lbs	169Nm
Front and Rear Lower Arms	125 ft-lbs	169Nm



17

Important Notes

Re-torque all hardware after 500 miles. Installation of these arms requires a full 4 wheel alignment. We recommend your local ASE Certified mechanic. Failure to do so may result in uneven tire wear and undesired handling characteristics.

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.

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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