



# MaxTrac<sup>®</sup>

s u s p e n s i o n

**PART# K949842**  
**2022+ JEEL JL WRANGLER**  
**4XE HYBRID**



4 HOUR INSTALL TIME



Max Trac Suspension recommends using an 17" x 9" wheel w/ 4.5" back spacing. Any wheel that is wider or has less back spacing "i.e. Deep Dish Wheels" can cause component failure and will void the warranty. Max Trac Suspension also recommends using a 37" x 12.5" tire.

KIT SHOWN WITH VULCAN SERIES RESERVOIR SHOCKS

Components	Hardware	Hardware Pack #
(2) 759730 FRONT SPRING	(2) 7/16-14 X 2 1/2" SELF TAPPING BOLT	9498H-BS
(2) 739820 REAR SPRING	(2) 7/16" FLAT WASHER	
(2) 9498CS 1/2" REAR COIL SPACER	(4) 3/8-16 X 1" HEX CAP SCREW	
(2) 8898FBS FRONT BUMP STOP EXTENSION	(4) 3/8-16 NYLOCK NUT	
(2) 8897RBS2 REAR BUMP STOP EXTENSION	(4) 3/8" FLAT WASHER	
(2) 8397RSB REAR SWAY BAR END LINK	(6) 1/4-20 X 3/4" HEX CAP SCREW	9498H-BL
(2) 8397FB FRONT BRAKE LINE BRACKET	(6) 1/4-20 NYLOCK NUT	
(2) 8397RB REAR BRAKE LINE BRACKET	(12) 1/4" FLAT WASHER	
(1) 8898RTB REAR TRAC BAR BRACKET	(1) 8897RTB-3 CRUSH TUBE	9498H-RTB
	(1) 1/2-13 X 5" (GR8) HEX CAP SCREW	
	(1) 1/2-13 NYLOCK NUT	
	(2) 1/2" HARDENED FLAT WASHER	
	(1) M14-2.0 X 80 HEX CAP SCREW	
	(1) M14-2.0 NYLOCK NUT	9498H-RSB
	(2) M14 FLAT WASHER	
	(2) M12-1.75 X 65 HEX CAP SCREW	
	(2) M12-1.75 NYLOCK NUT	889730V
	(4) M12 FLAT WASHER	
<b>889730S</b>	<b>889730V</b>	<b>889730VR</b>
(2) 2650LL-11 FRONT SHOCKS	(2) 2650LLV-11 FRONT SHOCKS	(2) 2650LLVR-11 FRONT SHOCKS
(2) 2900LL-11 REAR SHOCKS	(2) 2900LLV-11 REAR SHOCKS	(2) 2900LLVR-11 REAR SHOCKS

**\*REQUIRES TAPPING THE CENTER HOLE OF THE FRONT COIL SEAT ON THE AXLE**

**\*IF RUNNING STOCK WHEELS, THE DRIVER'S SIDE REAR SWAY BAR END LINK WILL CONTACT THE WHEEL AT FULL DROOP, BUT NOT DURING NORMAL DRIVING CONDITIONS**

**\*WILLY'S MODELS WILL GET 3" OF LIFT SINCE THEY COME WITH A FACTORY 1" LIFT**

Please double check the parts list before beginning installation to ensure all parts are present. If there is something missing, please contact Maxtrac Suspension (714) 630-0363. Please have the boxes present if parts are missing or damaged

**PRIOR TO INSTALLATION:**

1. Factory service manual is recommended to have on hand.
2. Secure and properly block vehicle prior to beginning installation.
3. Always wear safety glasses when using power tools or working under the vehicle
- 4 Modification to any part will void the warranty associated with that product

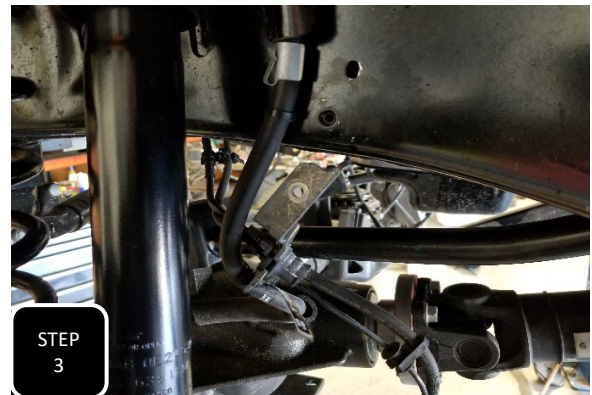
REVISED 11/15/2024



**Step 1** Jack up the front of the vehicle and support under the frame with jack stands. Keep an adjustable jack under the axle for height adjustment.



**Step 2** Working on both sides at the same time, apply some pressure on the axle with the floor jack centered under the front axle and then unbolt both front shocks at both ends and remove.



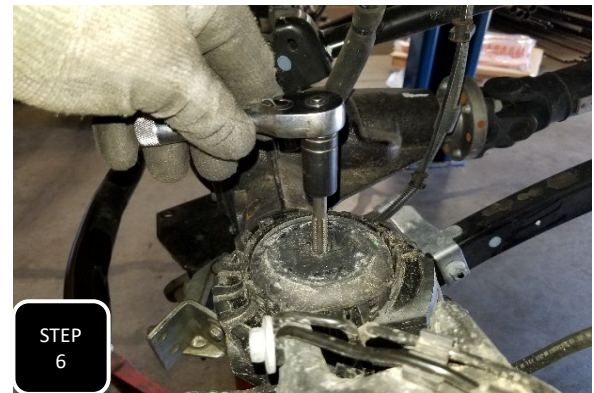
**Step 3** Unbolt both front brake line brackets from the frame and pull the bracket away from the frame.



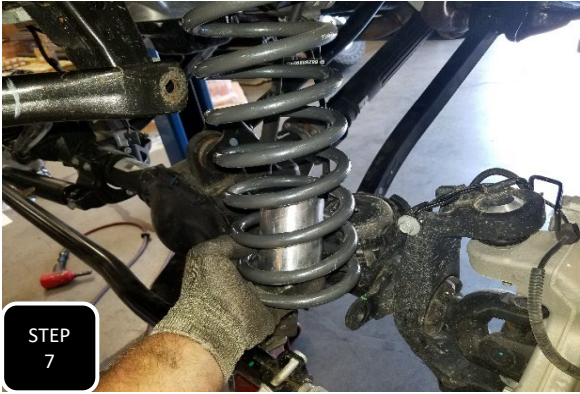
**Step 4** Unbolt both front sway bar end links at both ends and remove.



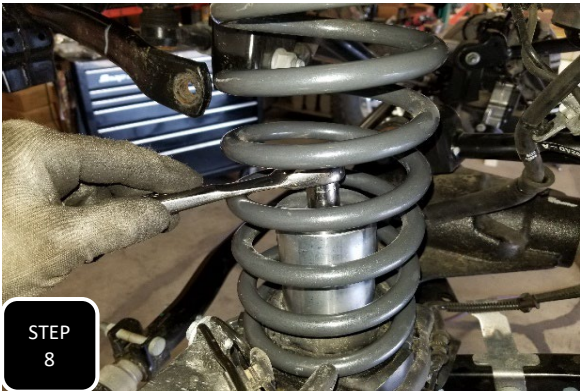
**Step 5** Before lowering the front axle, release the two wire guide clips for the front differential wiring so that the wiring does not get damaged during the install.



**Step 6** Lower the axle and remove both front coil springs. Next, using a 7/16-14 tap, thread the center hole in the coil guide on the axle.



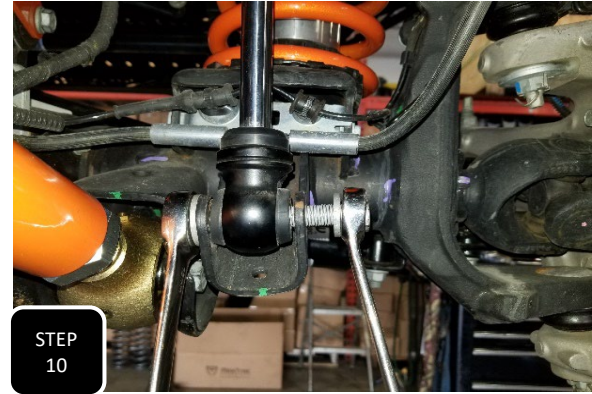
**Step 7** Locate the new front coil springs and aluminum bump stop extensions. Hold the bump stop extensions inside the coils and install the springs onto the truck.



**Step 8** Drop the supplied 7/16" bolt and washer into the bumpstop and tighten down to 45 ft/lbs.



**Step 9** Locate the new front shocks and press in the provided hardware. The top hardware consists of two sleeves with a rib in the middle and the bottom sleeve is just a straight sleeve. First grease the bushings and then press in the sleeves using a bench vise or arbor press.



**Step 10** Once the mounting hardware has been installed, install the shocks on the truck using the factory bolts top and bottom. Torque bolts to 55 ft/lbs.



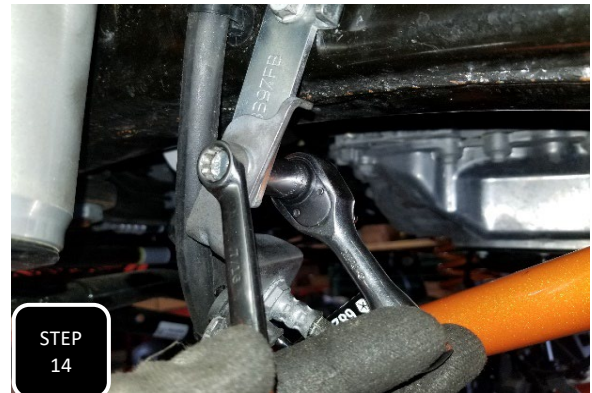
**Step 11** If installing Vulcan Series reservoir shocks, some vehicles may run into a contact issue between the 90 degree reservoir fitting and the factory shock tower. Mark the contact area and then clearance, as needed, using a suitable grinder. Last, seal up the ground area with some black spray paint to avoid rust.



**Step 12** Your factory rear sway bar end links will get used in the front so now proceed to the rear of the truck and remove both factory sway bar end links.



**Step 13** Install the factory rear sway bar end links on the front using the factory hardware.



**Step 14** Locate the brake line extension brackets and loosely attach them to the frame using the factory bolts. The bent tab will face out, away from the frame. Next, attach the two brackets together using the provided 1/4" hardware and rotate the brackets until the bent tab on the factory bracket touches the new bracket, and tighten. Lastly, tighten the bolt at the frame.



**Step 15** Re-attach both wire clips for the front differential wiring and then move to the rear of the vehicle.

## REAR INSTALATION



STEP  
16

STEP  
16

**Step 16** Jack up the rear of the truck and support under the frame with jack stands. Keep an adjustable jack under the differential for height adjustment.

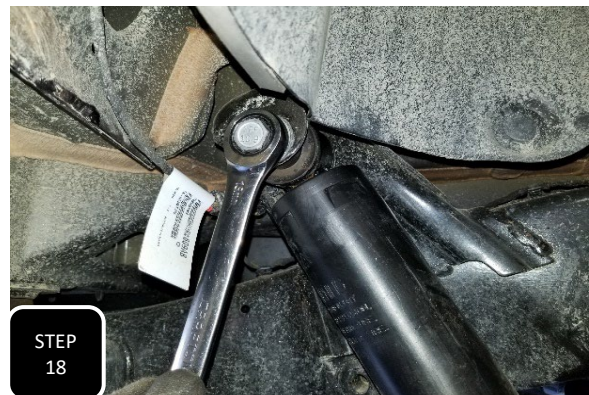


STEP  
17

**Step 17** Working on both sides at the same time, unbolt the brake line guide bracket from the frame and pull down the hard line a little bit to gain slack in the line.



STEP  
18



STEP  
18

**Step 18** Apply some pressure to the rear axle with the jack and then unbolt both shocks at both ends and remove.



STEP  
19

**Step 19** Lower down the axle and remove both coil springs.



STEP  
20

**Step 20** Remove the plastic lower coil isolator and cut off the guide nipple using a suitable cutting device.

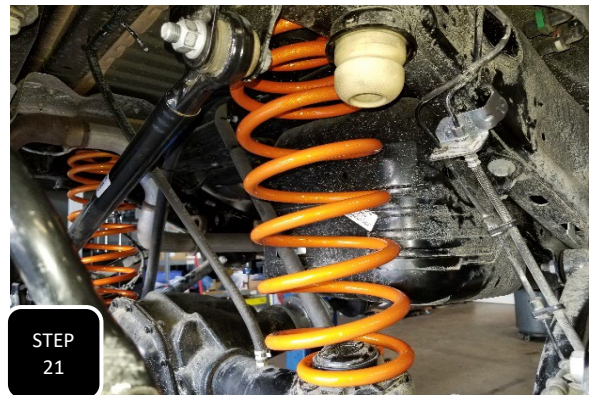


STEP  
20



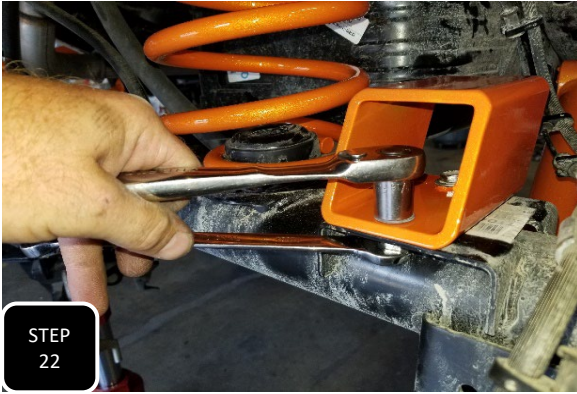
STEP  
21

**Step 21** Install the new coil spacers on the lower coil mount and then re-install the plastic isolator. Next, install the new springs and jack up the axle until both springs are properly seated.



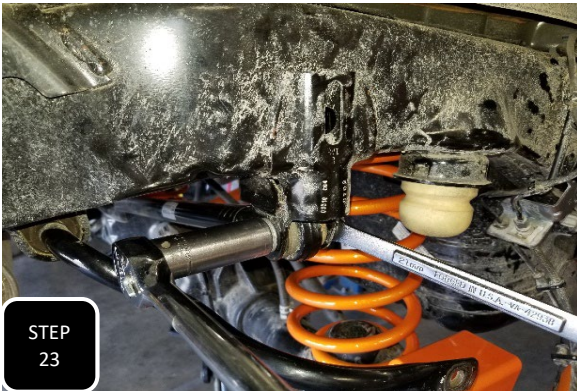
STEP  
21





STEP  
22

**Step 22** Attach the new bump stop extensions to the axle using the provided 3/8" hardware. The extensions will need to off-set towards the front of the truck.

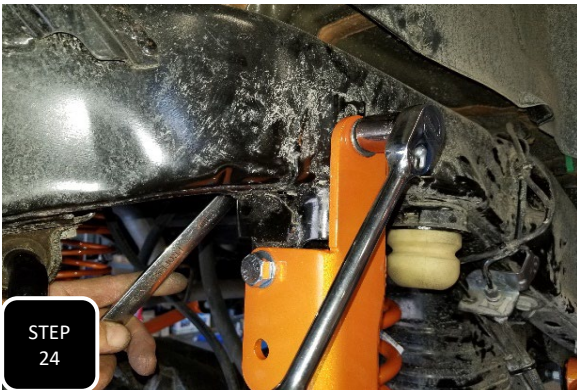


STEP  
23

**Step 23** Unbolt the trac bar from the mount at the frame and separate. Loosely attach the new trac bar bracket using the supplied M14 hardware and zinc plated crush tube. The new bracket will fit around the factory bracket.



STEP  
23



STEP  
24

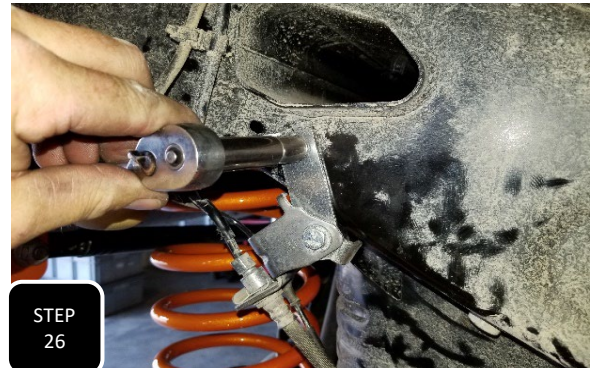
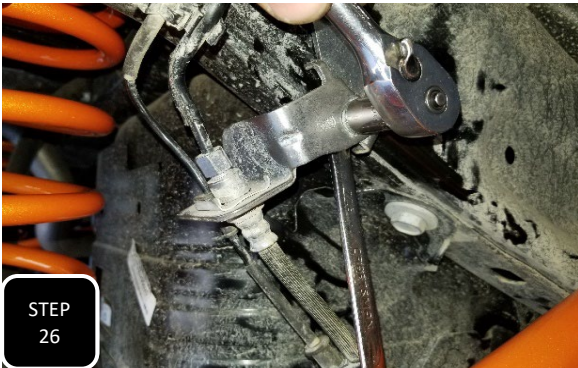
**Step 24** Install the supplied 1/2 x 5 1/2" bolt through the side of the bracket/frame and torque to 85 ft/lbs. Next, loosely attach the trac bar to the new bracket using the factory hardware, but do not tighten at this time. Tighten the bolt through the original trac bar hole and torque to 100 ft/lbs.



STEP  
24



**Step 25** Attach the new sway bar end links to the sway bar using the supplied M12 hardware and to the axle using the factory M12 hardware. The links will need to go wider at the sway bar. Next, torque the bolts to 50 ft/lbs. **NOTE: THE DRIVER'S SIDE END LINK WILL CONTACT THE WHEEL, IF STOCK WHEELS ARE INSTALLED, ONLY AT FULL SUSPENSION DROOP, BUT NOT DURING NORMAL DRIVING.**



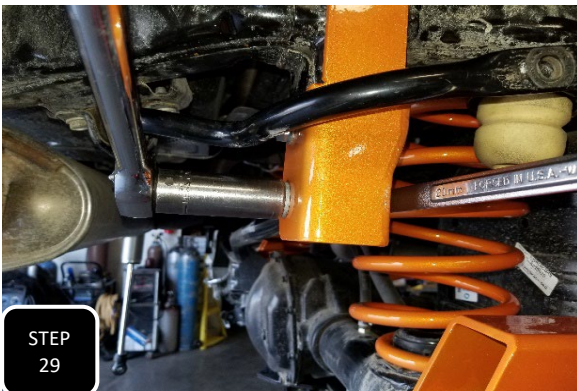
**Step 26** Locate the brake line extension brackets and attach them with the bent tab facing down, inward, and towards the front of the truck. Loosely install them using the factory mounting bolt. Next, attach the factory bracket to this bracket using the provided 1/4" hardware. Rock both brackets forward so the tab on the new bracket hits the frame and the tab on the factory bracket hits the new bracket and tighten both bolts.



**Step 27** Locate the new rear shocks and press in the provided hardware. The top hardware consists of two sleeves with a rib in the middle and the bottom sleeve is just a straight sleeve. First grease the bushings and then press in the sleeves using a bench vise or arbor press.



**Step 28** Once the mounting hardware has been installed, install the shocks on the truck using the factory bolts top and bottom. Torque bolts to 55 ft/lbs.



**Step 29** Install the wheels and tires then lower the truck down to ride height. Jump on the rear bumper a few times to settle the rear suspension then torque the trac bar bolt to 100 ft/lbs.

**-The headlights should be adjusted after modifying the stance of the vehicle.**

**-The vehicle's alignment will need to be checked.**

**-All suspension components should be re-torqued after 500 miles.**



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## RIDE HEIGHT SHEET

\*THIS SHEET MUST BE FILLED OUT PRIOR TO CALLING WITH ANY DISCREPENCIES

YEAR \_\_\_\_\_ MAKE \_\_\_\_\_ MODEL \_\_\_\_\_

4WD / 2WD / AWD

### MEASUREMENTS

\*MOST ACCURATE MEASUREMENT IS FROM THE BOTTOM OF THE RIM, STRAIGHT UP TO THE BOTTOM OF THE FENDER

\*TRUE HEIGHT WONT BE ACCURATE UNTIL VEHICAL IS ALIGNED

\*THE VEHICLE'S CASTER WILL BE INCREASED OR DECREASED IF ONLY THE FRONT OF THE VEHICLE IS MODIFIED

	BEFORE	AFTER	DIFFERENCE
DRIVER FRONT	_____	_____	_____
DRIVER REAR	_____	_____	_____
PASSENGER FRONT	_____	_____	_____
PASSENGER REAR	_____	_____	_____

# LIMITED LIFETIME WARRANTY

Max Trac Suspension makes no warranty, expressed or implied, as to the merchantability, fitness for purpose, description, quality, productiveness, accuracy or any other matter with respect to every product, all such warranties being hereby specifically and expressly disclaimed by Max Trac. Max Trac may offer technical advice or assistance with regard to the products based on laboratory and/or field experience and customer understands and agrees that such advice represents only good faith opinions and does not constitute a warranty or guarantee. The sole and express warranty provided by Max Trac is to warrant that the products sold as listed comply with Max Trac's specification at the date and time of manufacture. Max Trac makes no warranty that such products shall meet such specification at any time after installation of products. Use of such product is specifically not warranted, and Max Trac specifically excludes from this express warranty parts subject to normal wear and tear after one year, finish after one year, damage resulting from failure to follow recommendations in installation manuals, competition or off-road use, and damages caused by aftermarket products. Max Trac's liability and customer's exclusive remedy for any breach of this limited express warranty is limited to repair, replacement, or refund at Max Trac's option and in Max Trac's sole discretion. There are no warranties which extend beyond the description on the face hereof.

Our limited lifetime warranty excludes the following items: bushings, bump stops, ball joints, tie rod ends, rod end/heim joints, and shock absorbers. These parts are subject to immediate wear and tear and are not considered defective when worn. They are warranted for twelve (12) months from the date of purchase only for defects in workmanship.

This Max Trac warranty is void if (1) the vehicle is not aligned after kit installation, (2) proper maintenance is not routinely performed, (3) the Max Trac products are misused or abused in any way in either installation or service, or (4) the products are used in a way that violates federal, state, or local law or regulation in any respect. Max Trac is not responsible for vehicle compatibility with other aftermarket products. Warranty coverage does not include consumer opinions regarding ride comfort, fitment and design after product installation.

Max Trac reserves the right to change, modify or cancel this warranty without prior notice.

## **WARRANTY RETURN**

Contact Maxtrac by sending an email with a copy of the original purchase receipt, along with photographs clearly illustrating the failure mode.

1. Upon validating the information provided, Maxtrac will issue a Return Manufacturer Authorization number (RMA#).
2. Return your product to Max Trac Suspension at your expense in order to execute a claim under this warranty.
3. Include the RMA# on the outside of the box. Any returns without the RMA# will be refused.

## **NON-WARRANTY RETURN & CREDIT POLICY**

Your item must be in its original unused and resalable condition to be returned, unless there is a manufacturing defect. You must return the item within 30 days of your purchase. Otherwise, there will be an additional restocking fee.

1. Please contact Max Trac Suspension at (844) 535-1668 to obtain a Return Manufacturer Authorization Number (RMA#).
2. Return your product to Max Trac Suspension at your expense.
3. Include the RMA# on the outside of the box. Any returns without the RMA# will be refused.

## **Return Exceptions**

Merchandise that has been installed, used, or altered may be subject to no credit.

## **Restocking Fee**

All items are subject to a restocking fee based on the condition of the packaging and product.

Max Trac Suspension does not credit shipping and handling. Credit minus applicable restocking fee will be determined and issued within 10 business days of product receipt.

All returns will be credited to your Maxtrac account.



# INSTALLATION WARNINGS

**READ INSTRUCTIONS AND WARNINGS COMPLETELY PRIOR TO INSTALLATION.**

**MAXTRAC IS NOT RESPONSIBLE FOR ANY DAMAGE OR INJURY DUE TO IMPROPER INSTALLATION OR MAINTENANCE.**

Installer is responsible to insure a safe and controllable vehicle after performing modifications. All steps and procedures described in these instructions were performed while the vehicle was properly supported on a two post vehicle lift with safety jacks. Included instructions are recommended guidelines only.

Max Trac Suspension recommends reference to the OE Service Manual corresponding to the model and year of vehicle when either disassembling or assembling factory and related components.

Use caution during all disassembly and assembly steps to insure suspension components are not over extended, causing damage to any vehicle components and parts included in this kit. Unless otherwise specified, tighten all bolts and fasteners to standard torque specifications listed within the OE Service Manual.

Suspension components that use rubber or urethane bushings should be tightened with the vehicle at normal ride height. This will prevent premature wear or failure of the bushing and maintain ride comfort.

Larger tire and wheel combinations may increase leverage on suspension, steering, and related components.

Due to payload options and initial ride height variances, the amount of lift is a base figure. Final ride height dimensions may vary in accordance to original vehicle ride height. Always measure the vehicle ride height prior to beginning of installation.

**MAXTRAC SUSPENSION DOES NOT ADVISE USING WHEELS WIDER THAN 9" OR WHEELS WITH LESS THAN 4.5" BACKSPACING. DOING SO WILL RESULT IN VOIDING ANY AND ALL MANUFACTURER WARRANTIES**

Max Trac Suspension does not recommend the combined use of suspension lifts, body lifts, or other lifting devices.

## **Final Checks & Adjustments**

Once the vehicle is lowered to the ground, check all parts which have rubber or urethane components to ensure proper torque. Torque lug nuts to the wheel manufacturer specs.

Move vehicle backwards and forwards a short distance to allow suspension components to settle. Turn the front wheels completely left then right and verify adequate tire, wheel, brake line, and ABS wire clearance.

Test and inspect steering, brake and suspension components for tightness and proper operation. Inspect brakes, hoses, and ABS lines for adequate slack at full extension, and adjust as necessary.



# ADDITIONAL WARNINGS

## **WARNING**

Max Trac Suspension products should ONLY be installed by a certified professional mechanic with experience working on and installing suspension products. Professional knowledge and skill will typically yield the best installation results.

If you need a list of installers in your area, please contact Max Trac Suspension customer service to find one of our authorized dealers. Max Trac Suspension does not warrant work performed by any dealer, installer, or mechanic.

- All lifted vehicles may require additional driveline modifications and/or balancing.
- A Factory Service Manual for your specific Year/ Make / Model should be referenced during installation.
- Use of a vehicle hoist will greatly reduce installation time.
- Speedometer / computer calibration is required if changing +/- from factory tire diameter.
- Vehicle must be in excellent operating condition. Repair or replace any and all worn or damaged components prior to installation.

**FAILURE TO PERFORM POST INSTALLATION INSPECTION AND/OR CHECKS MAY RESULT IN VEHICLE COMPONENT DAMAGE AND/OR PERSONAL INJURY OR DEATH.**

**RECHECK ALL HARDWARE FOR PROPER TORQUE VALUES AFTER 500 MILES, AND THEN PERIODICALLY AT EACH SERVICE INTERVAL THERAFTER.**

## **Vehicle Handling Warning**

Increasing the height of your vehicle raises the center of gravity and **WILL** affect stability and control. Use caution on turns and when steering. Vehicles with larger tires and wheels will handle differently than stock vehicles. Take time to familiarize yourself with the handling of your vehicle after product installation.

## **Wheel Alignment/Headlamp Adjustment**

It is necessary after installation to have a wheel alignment performed by a certified alignment technician. Align the vehicle to factory specifications. It is recommended that your vehicle alignment be checked after any off-road driving. In addition to vehicle alignment, it is necessary to check and adjust vehicle head lamps for proper aim and alignment. If the vehicle is equipped with active or passive safety/collision monitoring and / or avoidance systems including, but not limited to, camera-or radar-based systems, check and adjust your vehicle's systems for proper aim and function.

## **Braking Warning**

Generally, braking performance and capabilities are decreased when significantly larger or heavier tires and wheels are used. Take this into consideration while driving. Also, changing axle gear ratios or using tires that are taller or shorter than factory height will cause an erroneous speedometer reading. On vehicles equipped with an electronic speedometer, the speed signal impacts other important functions as well. Speedometer recalibration for both mechanical and electronic types is highly recommended.



# SAFETY WARNINGS

## SAFETY WARNING

MISUSE OF THIS PRODUCT COULD LEAD TO INJURY OR DEATH.

- Suspension systems or components that enhance the on and off-road performance of your vehicle may cause it to handle differently than it did from the factory. EXTREME CARE must be used to prevent loss of control or vehicle rollover during operation.
- ALWAYS operate your vehicle at reduced speeds and maintain distance between vehicles and obstacles to ensure your ability to control your vehicle under all driving conditions. Failure to drive safely may result in serious injury or death to the driver and passengers.
- Driver and passengers must ALWAYS wear seat belts, avoid rapid steering angles and rates and other sudden maneuvers.
- You should NEVER operate your vehicle under the influence of alcohol or drugs.
- Please check all factory components for excessive wear and tear. Please replace worn factory parts before installing any suspension kits. Failure to do so will void any Max Trac warranty.
- Please inspect all wheel bearings and hub bearings for excessive wear and replace worn components before installing suspension kits. These hub and wheel bearings may wear out sooner with installation of larger tires and wheels. MaxTrac does not warranty these factory parts at any time, also using any wheel that MaxTrac does not recommend will void any warranty of MaxTrac components.
- Constant maintenance is required to keep your vehicle safe. Thoroughly inspect your vehicle before and after every off-road use.
- It is the responsibility of the retailer and/or the installer to review all state and local laws with the end user of this product related to bumper height laws and the lifting of a vehicle before the purchase and installation of any Max Trac products.
- It is the responsibility of the driver to check the area around the vehicle for obstructions, people, and animals before moving the vehicle.
- All lifted vehicles have increased blind spots. Take note of these prior to operating the vehicle.

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**DAMAGE, INJURY AND/OR DEATH CAN OCCUR IF ANY OF THE ABOVE WARNINGS ARE NOT FOLLOWED.**