

# 10291 KIT

**1.75" Leveling Kit** Dodge RAM 2500 / 3500 (4WD)\*

Will not fit Power Wagon models or models equipped with snow prep or ambulance packages

Levels the stance of your vehicle by raising the front end a fixed amount, increasing both the ground and wheel well clearance for the installation of larger wheels.



**WARNING:** This product can expose you to the chemical Hexavalent Chromate, which is known to the State of California to cause cancer and birth defects or other reproductive harm. *For more information go to www.P65Warnings.ca.gov* 

Thank you and congratulations on the purchase of a Leveling Kit. Please read the entire manual prior to starting the installation to ensure you can complete it once started.

# **KIT LAYOUT**



# **KIT CONTENTS**

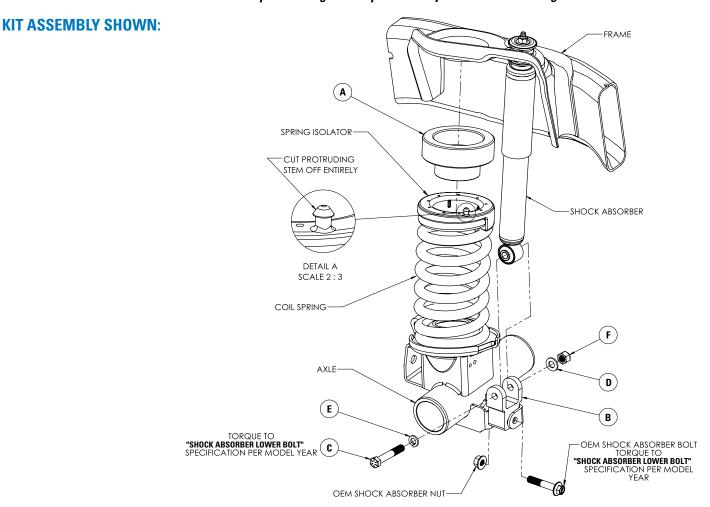
Please make sure all the items shown in the above kit layout are provided in your kit before starting the installation.

KIT CONTENTS		QTY	PART#
A	Coil Spring Spacer	2	HP1477
В	Shock Extension	2	HP1478
C	9/16"- 18 x 3.5" Hex Head Cap Screw	2	HP1479
D	9⁄16" Flat Washer	2	HP1480
E	9⁄16" Split Lock Washer	2	HP1481
F	9∕16"- 18 Nyloc Nut	2	HP1482

REQUIRED TOOLS				
Hoist or Floor Jack				
<ul> <li>Safety Stands</li> </ul>				
<ul> <li>Safety Glasses</li> </ul>				
Torque Wrench				
<ul> <li>Standard Combination Wrenches</li> </ul>				
<ul> <li>7/32" Hex Allen Wrench</li> </ul>				
<ul> <li>1-1/8" Wrench or Deep Socket</li> </ul>				

Metric & StandardSockets Ratchet

Please make sure all the items shown in this explosion diagram are provided in your kit before starting the installation.



RAM 2500 OEM TORQUE SPECIFICATIONS								
MODEL YEAR	2013-2018	2019-2023	2024					
SHOCK ABSORBER UPPER NUT	36 N∙m [27 ft-lbs]							
SHOCK ABSORBER LOWER BOLT	120 N•m [89 ft-lbs] 50 N•m [37 ft-lbs] plus an additional 105 degrees		ft-lbs] 105 degrees					
STABILIZER BAR BRACKET BOLT	58 N•m [43 ft-lbs]	79 N•m [58 ft-lbs]	83 N•m [61 ft-lbs]					
STABILIZER LINK TO BAR NUT		82 N•m [60 ft-lbs]						
STABILIZER LINK TO AXLE NUT		149 N•m [110 ft-lbs]						
TRACK BAR TO FRAME BOLT	387 N • m [285 ft-lbs] 100 N • m [74 ft-lbs] plus an additional 160 degree:		ft-lbs] 160 degrees					
TRACK BAR TO AXLE BOLT	387 N•m [285 ft-lbs]							

RAM 3500 OEM TORQUE SPECIFICATIONS						
MODEL YEAR	2013-2018	2019-2024				
SHOCK ABSORBER UPPER NUT	36 N∙m [27 ft-lbs]					
SHOCK ABSORBER LOWER BOLT	120 N•m [89 ft-lbs]	50 N•m [37 ft-lbs] plus an additional 105 degrees				
STABILIZER BAR BRACKET BOLT	58 N•m [43 ft-lbs]	79 N•m [58 ft-lbs]				
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STABILIZER LINK TO AXLE NUT	149 N•m [110 ft-lbs]					
TRACK BAR TO FRAME BOLT	387 N•m [285 ft-lbs]	100 N•m [74 ft-lbs] plus an additional 160 degrees				
TRACK BAR TO AXLE BOLT	387 N•m [285 ft-lbs]					

### **BEFORE STARTING THE INSTALLATION:**

#### Safety Warning!

Altering the suspension system of your vehicle may cause it to handle differently than it did from the factory. Larger wheel and tire combinations may increase the leverage on the suspension and steering components. This changes the way your vehicles handles and responds to abrupt maneuvers. Operate your vehicle at reduced speeds in all conditions to prevent loss of control. Failure to do so may result in serious injury. It is not recommend to combine the use of suspension lifts, body lifts, or other lifting methods.

#### Installation Warning!

Use caution when disassembling and reassembling the vehicle. The proceeding instructions are guidelines only, the installer is responsible for ensuring that the vehicle is safe for use after performing the installation. It is recommended to use the factory service manual for the model/year of the vehicle when disassembling and assembling factory related components.

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. Prevent the suspension components from overextension by supporting them with a jack.

**PLEASE NOTE**: Due to the suspension geometry and vehicle tolerances, the amount of lift is a base figure. **Spacer thickness does not equate to the amount of lift due to the suspension geometry.** For example: a 1" thick spacer may provide a 2" lift. Always measure the vehicle ride height at all 4 corners before and after installation to ensure the results are as expected.

# WHEEL ALIGNMENT AND HEADLIGHT ADJUSTMENT

It is necessary to have a proper and professional wheel alignment performed by a certified alignment technician to align the vehicle to factory specifications. After the installation is complete, check to ensure that the vehicle's headlights are aimed properly. If not, a headlight alignment is required.

# **SENSOR RECALIBRATION REQUIRED FOR ADAS**

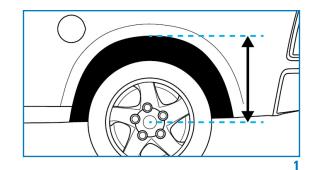
Manufacturer sensor recalibration procedure is required for vehicles equipped with Advanced Driver Assistance System (ADAS). ADAS may not operate as intended if calibration is not performed.

#### 1 MEASURE STOCK RIDE HEIGHT

Park the vehicle on a level surface.

Using a measuring tape, measure the distance between the center of the wheel hub and the bottom of the fender well (as shown in Figure 1) this will give you your ride height.

Note the ride height for all four corners.



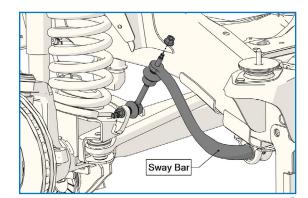
# **2 REMOVE FRONT WHEELS**

Place wheel chocks in front of and behind both rear wheels.

Raise front of the truck high enough to remove both wheels and attain a comfortable working height.

Place two jack stands under the vehicles frame and lower vehicle until the frame is supported by the jack stands.

Remove front wheels.

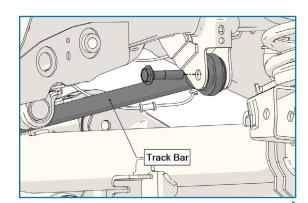


# 3 DISCONNECT THE SWAY BAR END LINKS

Disconnect both the driver and passenger side sway bar end links.

Tie the sway bar up and out of the way.

Let the end link attached to the axle hang free.



# 4 DISCONNECT THE TRACK BAR

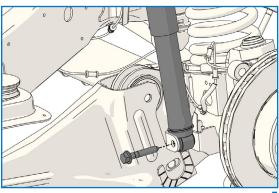
Disconnect the track bar from the track bar mount that is connected to the frame.

# 5 DISCONNECT THE FRONT LOWER SHOCK BOLTS

Remove the OE hardware securing the shock to the lower shock mount (as shown in Figure 5).

Repeat this step for both the driver and passenger side.

PLEASE NOTE: It may be necessary to raise or lower the floor jack under the axle slightly (this relieves the pressure being applied by the shock on the bolt) making the removal of the lower shock bolt easier.



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### **6 REMOVE THE COIL SPRING**

Lower the front axle until there is enough clearance to safely remove the coil spring, and the coil pad from the vehicle.

Using a pair of side cutters, snip of the nipple that is on the coil pad. (Refer to Figure 6).

Repeat this step for both the driver and passenger side.



Install the coil spring spacer, coil pad and the coil spring into the truck. (See Figure 7 on following page).

Repeat this step for both the driver and passenger side.

### 8 INSTALL THE SHOCK EXTENSIONS

Using the factory OE hardware install the shock extension into the shock axle mount and torque it according to the manufacturers specifications. (Refer to Figure 8).

Using the provided 9/16" hex head cap screw, washers and nyloc nut to connect the shock absorber to the shock extension.

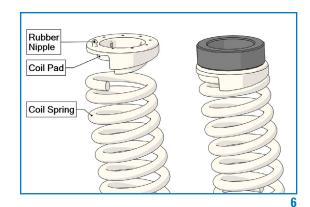
Torque the 9/16" cap screw to the manufacturer's specifications (found on Page 3).

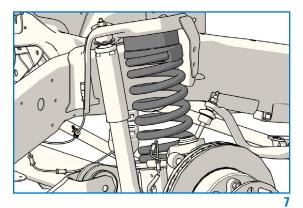
Repeat this step for both the driver and passenger side.

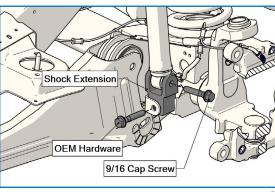
#### 9 REINSTALL THE TRACK BAR

Reconnect the track bar to the frame track mount using the OE hardware.

Torque the hardware to the manufacturer's specifications (found on Page 3).







OEM Hardware

Track Bar

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### 10 RECONNECT THE SWAY BAR END LINKS

Use the OE hardware to reconnect the sway bar end links. Do not torque the end links to specification.

NOTE: 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.

# 11 REINSTALL THE WHEELS

Install the wheels and torque them to factory specification.

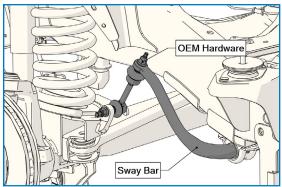
Raise the vehicle in order to remove the jack stands from under the frame and then lower the vehicle back to the ground.

Torque the sway bar end links according to the manufacturer's specifications (found on Page 3).

Use a measuring tape to measure the distance between the center of the wheel hub and the bottom of the fender well for all four corners.

This is your new ride height. Ensure the results are as expected.

Congratulations!
You have completed the installation



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# POST INSTALLATION WARNING

After the kit installation is complete and the vehicle is on the ground at its normal ride height, roll the vehicle backward and forward to settle the suspension. Tighten all components containing rubber bushings to the specified torque values. Verify adequate tire, wheel, brake line and ABS wire clearance by turning the front wheels completely to the left and then to the right. Ensure brake/ABS lines are not stretched when the suspension is at full droop. Test and inspect steering, brake and suspension components. Vehicle damage may result if the post installation checks are not performed.

### **VEHICLE HANDLING WARNING**

Larger wheel and tire combinations may increase the leverage on the suspension and steering components. Increasing the height of your vehicle increases the likelihood of rollover or loss of control during abrupt manoeuvres, especially at high speeds. Operate your vehicle at reduced speeds in all conditions to prevent loss of control. Failure to do so may result in serious injury.

# WHEEL ALIGNMENT & HEADLIGHT ADJUSTMENT

After the kit installation is complete, a professional wheel alignment must be performed by a certified alignment technician to re-align the vehicle to within factory specifications. Additionally, ensure that the vehicles headlights are aimed properly. If not, a headlight alignment is required as well. If not properly aligned it can cause increased tire and suspension component wear.

## **SENSOR RECALIBRATION REQUIRED FOR ADAS**

Manufacturer sensor recalibration procedure is required for vehicles equipped with Advanced Driver Assistance System (ADAS). ADAS may not operate as intended if calibration is not performed.

### **VEHICLE RE-TORQUE & SAFETY INSPECTION**

After the kit installation and adjustments have been completed and within 50 miles of driving, perform a check over of all applicable fasteners and hardware to ensure they are adequately tightened to the specifications given (or as noted in the vehicle's factory service manual).

#### **WARRANTY**

To be eligible for warranty, the owner must submit their warranty card or register online within 30 days of the purchase date.