2.5” IFS 4X4 VAN TORSION KEY LIFT KIT

2003–Newer Chevy / GMC 2500–3500 Vans

Parts Included

2 Torsion Keys • 2 Rear Lift Blocks • 4 New U-Bolts with Washers and Nuts

Tools Required (Not Included)

Floor jack, jack stands, assorted metric and SAE sockets, ratchets and Allen wrenches, torque wrench, and GM-compatible torsion bar unloading tool.

Before installation: Read all instructions completely, verify all kit components, and use a trained mechanic for installation.

WARNING — Modified Vehicle Handling

This vehicle has been modified and may steer, brake, and handle differently than a standard vehicle. Avoid abrupt maneuvers, sudden stops, and sharp turns that could cause loss of control or rollover. Larger tires may cause the speedometer to read lower than actual road speed. Drive with care, reduce speed, and wear seat belts at all times.

Front Torsion Key Installation

STEP 1

Before raising the vehicle, remove the lower shock bolt. Then position a floor jack under the front differential crossmember. Raise the van off the ground and place jack stands underneath the crossmember.

Remove the front wheels.

NOTE: Before raising the vehicle, measure from the ground to the bottom of the wheel well, using the same reference points on both sides. Record your measurements.

STEP 2

NOTE: Measure the exposed threads on the torsion key adjusting bolt before disassembly to aid reinstallation.

Locate the torsion key crossmember under the van. Mark a reference point on the torsion key and the torsion bar. Locate the lower front A-arm and mark a reference point between the A-arm and torsion bar to assist with alignment during reassembly.

Using a GM torsion bar unloading tool, compress the driver-side key enough to remove the torsion key adjusting bolt and keeper. Slowly release the unloading tool to remove torsion bar tension. Slide the torsion bar forward to remove the factory key.

Lay the factory key on top of the new key and transfer the reference mark to the new key. In general, the new key ear will face slightly downward.

STEP 3

Install the new forged torsion key and slide the torsion bar back into position. Use the torsion bar unloading tool to compress the key enough to reinstall the keeper for the adjusting bolt.

IMPORTANT: Make sure the torsion bar extends at least ¼" through the torsion key.

STEP 4

Install the adjusting bolt and adjust it so ¼" of bolt threads extend beyond the torsion key keeper.

STEP 5

Repeat steps 2 through 4 on the passenger side of the vehicle.

STEP 6

Install new shocks.

Reinstall the wheels and torque to factory specifications. Set the van on the ground and measure the ride height. Adjust the appropriate torsion key to level the front of the van.

NOTE: Overcranking of the suspension will affect ride quality and is not recommended.

Rear Lift Installation

STEP 1	Raise the rear of the vehicle with a floor jack positioned under the rear axle.
STEP 2	Place jack stands under the frame rails, a few inches in front of the rear spring front hangers.
STEP 3	Lower the jack until the frame rests securely on the stands.
STEP 4	Keep a slight load on the jack and chock the front tires to prevent movement.
STEP 5	Remove the tires, U-bolts, and shocks. For easier block alignment, loosen the U-bolts on one side and remove those on the other, then repeat for the opposite side.
STEP 6	Lower the axle slowly with the jack. Do not overextend the brake hoses or axle vent hose; rerouting or replacement may be required. Place the lift blocks between the leaf springs and axle perches, with the tall end of each tapered block facing rearward. Clean all contact surfaces.
STEP 7	Install the new U-bolts. Tighten evenly in a cross pattern and torque to 120 ft-lb.
STEP 8	Reinstall the shocks and wheels, torque the wheel fasteners to factory specifications, and lower the vehicle to the ground.

Final Checks and Recommendations

• Have the van aligned to factory specifications by a qualified alignment technician experienced with lifted vehicles.

• Check alignment whenever installing new tires.

• Minor trimming of the front air dam may be necessary to ensure adequate tire clearance.

• Adjust the headlights after changing the ride height.

• If larger tires are installed, speedometer recalibration may be necessary.

• With the steering turned fully in both directions, verify clearance around the tires, control arms, brake lines, and ABS wiring.

For installation questions, please contact info@boulderoffroad.com