ANVIL OFF-ROAD

505AOR

2018 & Up Jeep Wrangler / Wrangler Unlimited JL 2.5" Suspension Lift Kit

Parts:

2 - Front Coil Spring Spacers
2 - Rear Coil Spring Spacers
2 - Front Shock Extensions
2 - Rear Shock Extensions
2 - Front Brake Line Brackets
2 - Rear Brake LineBrackets
2 - Rear Spacer Retainers
1 - Hardware Bag

PRE-INSTALLATION

Professional installation by a certified technician is strongly recommended.

Not responsible for altered products. No claims are made regarding any lifting devices. Any and all claims implied in this document excluded.

NOTES:

The following instructions assume the use of factory wheels and tires. The use of wider tires will require trimming and offset wheels. Automatic equipped vehicles may require the installation of an aftermarket, smaller diameter front drive shaft if there is inadequate clearance with the automatic transmission pan after installing this kit.

REQUIRED TOOLS:

15mm Wrench	15mm Socket	18mm Wrench
18mm Socket	21mm Wrench	21mm Socket
9/16" Wrench	9/16" Socket	3/4" Wrench
3/4" Socket	22mm Deep-Well Socket	Jack & Jack Stands

Torque Specs:

Size	Grade 5	Grade 8
5/16"	15 ft/lbs	20 ft/lbs
3/8"	30 ft/lbs	35 ft/lbs
7/16"	45 ft/lbs	60 ft/lbs
1/2"	65 ft/lbs	90 ft/lbs
9/16"	95 ft/lbs	130 ft/lbs
5/8"	135 ft/lbs	175 ft/lbs
3/4"	185 ft/lbs	280 ft/lbs

Size	Class 8.8	Class 10.9
6MM	5ft/lbs	9ft/lbs
8MM	18ft/lbs	23ft/lbs
10MM	32ft/lbs	45ft/lbs
12MM	55ft/lbs	75ft/lbs
14MM	85ft/lbs	120ft/lbs
16MM	130ft/lbs	165ft/lbs
18MM	170ft/lbs	240ft/lbs

INSTALLATION INSTRUCTIONS *Front*

STEP 1: Chock rear wheels. Jack up front of vehicle so that front wheels are off the ground. Support vehicle with jack stands.

STEP 2: Remove front wheels. (22mm deep well socket)

STEP 3: Remove front driveshaft from axle (mark position) and hang up so not resting on boot. (15mm socket)

STEP 4: Remove front track bar frame bolt. (21mm wrench & socket - Save factory hardware)

STEP 5: Remove bottom sway bar bolts. (18mm socket & 18mm wrench - Save factory hardware)

STEP 6: Remove lower shock bolt. (18mm socket & 18mm wrench - Save factory hardware)

STEP 7: Remove brake line bracket from factory location. (15mm wrench)

STEP 8: Remove wiring harness from upper control arm. Remove vent tube from differential housing. Unplug 4x4 actuator.

STEP 9: Lower jack slightly and move axle down out of the way. Remove coil spring and spring isolator.

STEP 10: Install new spacer over factory bump stop with factory isolator attached to spacer.

STEP 11: Reinstall factory coil spring, rotating until pigtail hits stop.

STEP 12: Install brake line extension bracket. Secure to frame with factory hardware. Install factory bracke line bracket on extension with included 1/4" x 1" bolt, washers and nut.

STEP 13: Install shock brackets on lower mounts with included 3/8" bolts, washers and nuts. (Do not tighten yet)

STEP 14: Attach included sleeve with factory bolt and nut in factory location. (Do not tighten yet)

STEP 15: Tighten lower bracket bolt (9/16" wrench & socket - torque to 30 ft-lbs)

STEP 16: Compress suspenssion with jack and install shock in bracket with included 12mm x 65mm bolt, washer and nut.

STEP 17: Tighten factory hardware, then lower shock bolt. (18mm wrench & socket - torque to 55 ft-lbs)

STEP 18: Reinstall brake line bracket with factory hardware (15mm wrench - torque to 18 ft-lbs)

STEP 19: Reinstall wiring harness and vent tube. Plug in 4x4 actuator

STEP 20: Reinstall sway bar links with factory hardware. (18mm wrench & socket - torque to 55 ft-lbs)

STEP 21: Reinstall front wheels. (22mm deep well socket)

STEP 22: Jack up vehicle and remove jack stands. Lower vehicle to floor.

STEP 23: Install front track bar bolt to frame. (21mm wrench & socket - torque to 120 ft-lbs)

INSTALLATION INSTRUCTIONS *Rear*

STEP 1: Chock front wheels and jack up rear of vehicle. Place jack stands under frame rails and support axle with jack.
STEP 2: Remove rear wheels. (22mm deep-well socket)
STEP 3: Remove track bar bolt from axle. (21mm socket - Save factory hardware)
STEP 4: Remove lower shock mount. (18mm wrench & socket)
STEP 5: Remove lower sway bar link. (18mm wrench & socket - Save factory hardware)
STEP 6: Lower axle and remove coil spring and isolator.
STEP 7: Install spacer washer and coil spacer in spring pocket with included 1/2" x 2.5" bolt. (3/4" socket - torque to 65 ft-lbs)
STEP 8: Reinstall coil spring and isolator.
STEP 9: Install shock brackets on lower mounts with included 1.2" bolts, washers and nuts in bottom hole. (Do not tighten yet)
STEP 10: Attach included sleeve with factory bolt and nut in factory location. (Do not tighten yet)
STEP 11: Install shock in bracket with included 12mm x 65mm bolt, washer and nut.
STEP 12: Tighten factory hardware, then lower shock bolt. (18mm wrench & socket - torque to 55 ft-lbs)
STEP 13: Tighten lower bracket bolt (3/4" wrench & socket - torque to 65 ft-lbs)
STEP 14: Reinstall sway bar links with factory hardware. (18mm wrench & socket - torque to 55 ft-lbs)
STEP 15: Reinstall rear wheels. (22mm deep-well socket) Lower vehicle to ground.
STEP 16: Reinstall track bar with factory hardware. (21mm wrench & socket - torque to 120 ft-lbs)

POST-INSTALLATION

STEP 1: Check for proper torque on all fasteners. Check steering for proper working order and check for interference. Test brake system. Check clearance between all rotating, mobile, fixed and hot parts.
STEP 2: Check distance between tire sidewall and the brake hose during full–turn to full-turn steering sweep. Do not skip this step! Any contact may result in component failure.
STEP 3: **BEFORE vehicle is driven**, draglink must be adjusted to center on steering wheel. Failure to do so will result in comptuer error in traction control system and cause poor handling performance.
STEP 4: Have alignment performed to factory specifications by certified alignment professional.
STEP 5: Adjust headlights to proper alignment.

MAINTENANCE: After 500 miles, re-torque all fasteners. (Recommended every 1000 miles thereafter) Have all suspension, driveline and steering components inspected buy a certified technician durning routine maintenance (Recommended every 3000 miles)