



Install: 3 Inch Lift Kit

Part Number: S-11AC00001556

WORK INSTRUCTION OVERVIEW

⚠ WARNING

- DO NOT ATTEMPT THIS PROCEDURE IF YOU DO NOT HAVE PROPER TOOLS, TRAINING, AND FACILITIES.
- Never consider using a two-post lift that is not certified according to ANSI/ALI ALCTV-2011 or ANSI/UL 201. (autolift.org)
- Read and follow all instructions provided when installing this product. Failure to do so may result in placing occupants at risk of serious injury or death.
- To protect bystanders and the service technician(s), shut vehicle off, remove the Ignition Key and secure vehicle to prevent unintended movement.
- Never operate the vehicle in excess of manufacturer's specifications.

⚠ CAUTION

- Be sure all fastener threads are free and clean of sediments, rust, and blockages. Clean and clear all surfaces for proper installation
- When installation is finished and wheels are back on, lower vehicle completely and torque all leaf spring fasteners.
- Measure each corner of bumper before and after installation.

NOTICE

- Longer shocks will be installed on front of vehicle.
- Longer leaf springs will be installed on rear of vehicle.
- The ROXOR Lift Kit is designed to provide more ground clearance to your vehicle only. Any changes to factory installed wheel and tire size will adversely affect the operation of this unit's Dash Cluster and Engine Control Unit (ECU). Altering the Dash Cluster and/or ECU may cause drivability issues and potentially void the unit's warranty. Consult an authorized ROXOR Dealer for more information.

TOOLS REQUIRED

- | | |
|----------------|-----------------------|
| ◦ 18 mm Socket | ◦ Impact Driver |
| ◦ 19 mm Socket | ◦ Pliers |
| ◦ 21 mm Socket | ◦ Pry Bar |
| ◦ 13 mm Wrench | ◦ Grease Gun |
| ◦ 14 mm Wrench | ◦ Jack Stands |
| ◦ 17 mm Wrench | ◦ Protective Eye-wear |
| ◦ 24 mm Wrench | ◦ Drain Pan |







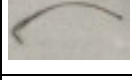




- | | |
|-----------------|--|
| ◦ Socket Driver | |
|-----------------|--|

TORQUE SPECIFICATION

Tighten each fastener to the torque specification below:

- **M8 Fasteners** – 23 N•m
- **M10 Fasteners** – 44 N•m
- **M12 Fasteners** – 35 N•m (±5 N•m)
- **U-Bolt Nuts** – 65 N•m (±5 N•m)
- **Banjo Bolts** – 26.5 N•m (±1.5 N•m)
- **Upper Brake Line** – 15 N•m (±1 N•m)
- **Brake Hose Locking Nut** – 35 N•m (±5 N•m)

COMPONENT TABLE

Component	Description	Qty
	Rear Shackle Plates P/N: S-0098288	4
	Front Shock P/N: S-0401AUA00041N	2
	Rear Shock P/N: S-0401AUA00051N	2
	Front Stabilizer Link P/N: S-0401AUA00071N	2
	Front Leaf Springs P/N: S-0401AUA00091N	2
	Rear Leaf Springs P/N: S-0401AUA00101N	2
	Front Brake Jounce Hose P/N: S-0601CAA00251N	2
	Brake Hose Copper Washer P/N: S-0011642	4
	Lift Kit Decal P/N: S-2302GUA01441N	2
	Front Breather Hose P/N: S-0502AUA00071N	1
	U-Bolt P/N: S-0402BA0230N	4



Install: 3 Inch Lift Kit Part Number: S-11AC00001556

INSTALLATION PROCEDURE

Front

- 1. Remove front wheels.



- 2. Separate differential breather hose with cable tie mount from bolt on radiator box.



- 3. Remove front differential hose from differential.



- 4. Transfer (2) breather hose components to new front breather hose supplied. Then reinstall hose assembly.

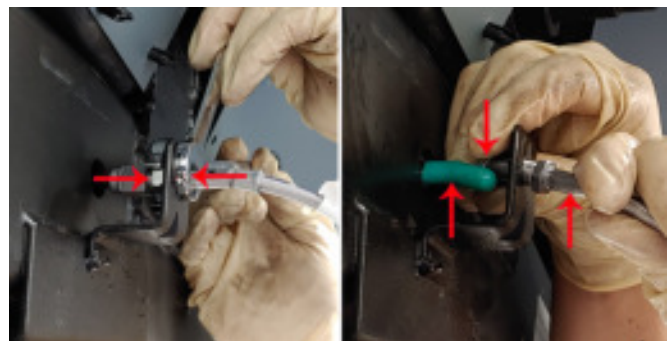


- 5. Place a container below brake line and remove inner brake line nut.



- 6. Hold outer brake line nut, then remove inner jam nut and slide upper end of brake line out of bracket. Plug or cap brake line immediately.

NOTICE Brake fluid is hygroscopic and corrosive. Close system and clean fluid off painted surfaces immediately.



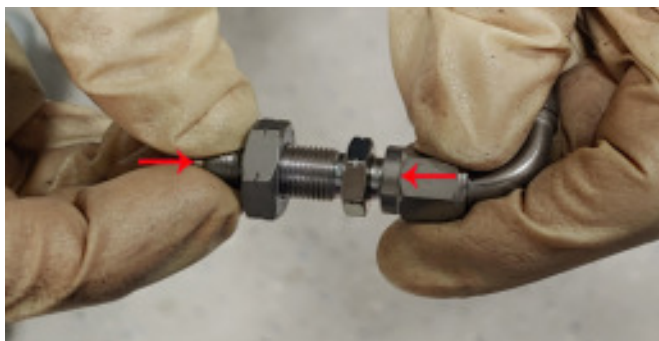


Install: 3 Inch Lift Kit Part Number: S-11AC00001556

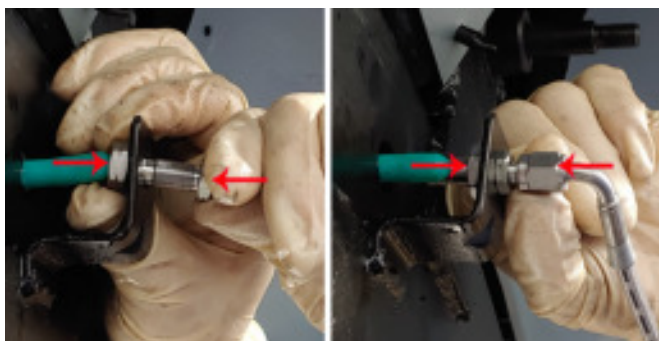
- 7. Remove (1) banjo bolt and retain for reuse later. Discard original brake line and (2) copper washers.



- 8. Remove (2) JIC Adapters, one from each replacement hose received.

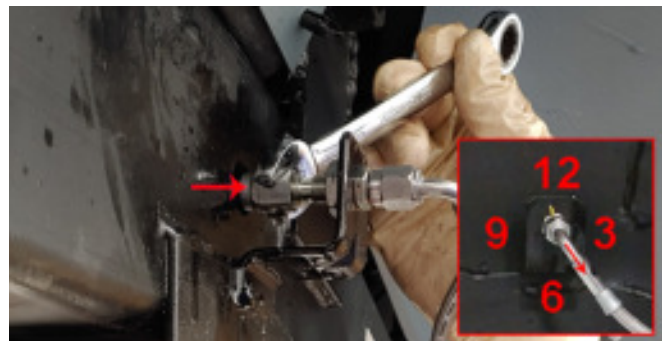


- 9. Install JIC Adapter to bracket as shown and tighten jam nut. Then loosely install (1) new brake line to JIC Adapter.



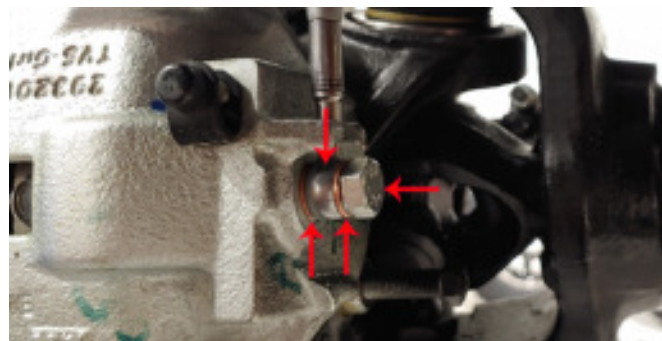
- 10. Install inner brake line nut to JIC Adapter.

Note: Make sure upper line fitting is positioned at 5 o'clock for drivers side and 7 o'clock on passenger before torquing to specifications.



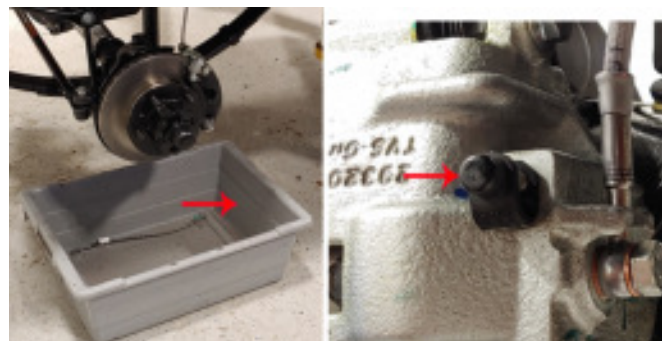
- 11. Install (2) new copper washers and reuse (1) banjo bolt to secure new brake line to caliper, then torque to specifications.

Note: Repeat these steps to install new brake line on opposite side before continuing.



- 12. Bleed the entire brake system.

NOTICE This step is best performed with two technicians.





Install: 3 Inch Lift Kit Part Number: S-11AC00001556

- 13. Remove left front shock and front stabilizer bar. Retain (4) M10 flat washers and (4) M10 nuts for reuse.



- 14. Remove (4) nuts, (1) spring seat (2) u-bolts. Retain (2) u-bolts, nuts, and spring seat for reuse.



- 15. Remove (1) M10 nut and (1) M10 flat washer and retain for reuse.

⚠ WARNING Do not remove bolt.



- 16. Support leaf spring, then remove (4) M10 bolts and (4) M10 nuts and retain for reuse. Discard (2) shackle plates.

⚠ WARNING Support front axle using suitable jack stand before removing these fasteners.



- 17. Remove (1) M12 rear leaf spring bolt and retain for reuse. Discard original front leaf spring.



- 18. Install new front leaf spring by reusing (1) M12 bolt through eye of spring at fixed end.





Install: 3 Inch Lift Kit
Part Number: S-11AC00001556

19. Install (2) new shackle plates in front re-using (1) M10 bolt and (1) M10 washer with (1) M10 nut.



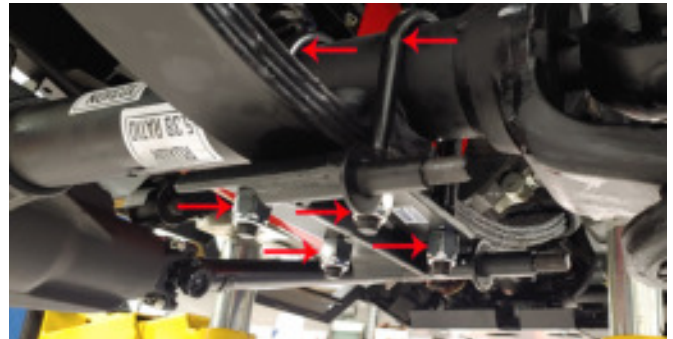
20. Re-using (1) M10 bolt and (1) M10 washer with (1) M10 nut, install new front leaf spring.



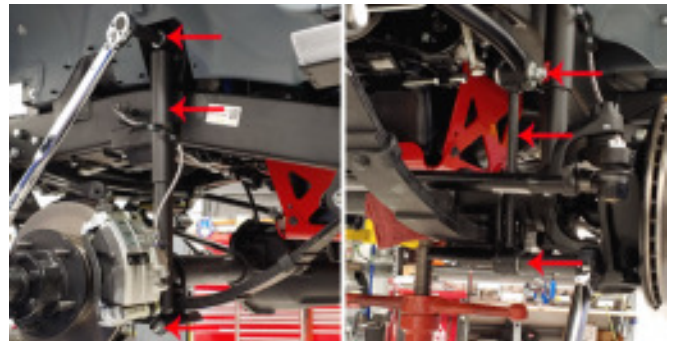
21. Re-install (1) M10 washer and (1) M10 nut. Torque to specifications.



22. Carefully lower axle onto front leaf spring and reinstall (2) front u-bolts, reusing (1) spring seat with (4) nuts. Retain fasteners for reuse.



23. Install new (1) shock and (1) new stabilizer bar link reusing fasteners. Torque to specifications. Repeat front suspension steps for opposite side.



Rear

1. Place 2 jack stands just inside rear leaf springs.





Install: 3 Inch Lift Kit Part Number: S-11AC00001556

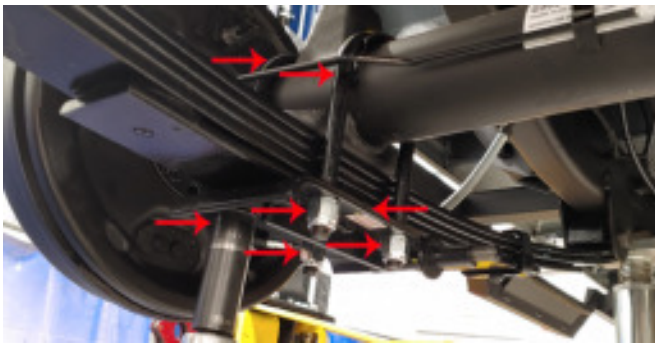
- 2. Remove (2) M10 nuts with (2) washers. Remove and discard shock, but retain fasteners for reuse.



- 5. Remove (1) nut and (1) washer from rear spring. Do not remove bolt. Retain fasteners for reuse.



- 3. Remove (4) nuts and spring seat. Remove (2) u-bolts and discard. Save all other hardware for reuse.

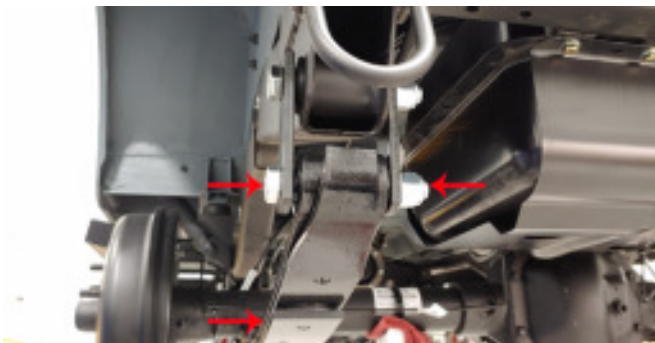


- 6. Remove (1) M10 spring bolt and discard spring. Retain fasteners for reuse.

NOTICE Take care not to drop suspension bolt as grease fitting on end can be deformed.



- 4. Remove lower (1) M10 nut with (1) M10 flat washer, (1) M10 bolt and guide leaf spring swing downward.



- 7. Install (1) new leaf spring reusing (1) M10 spring bolt.



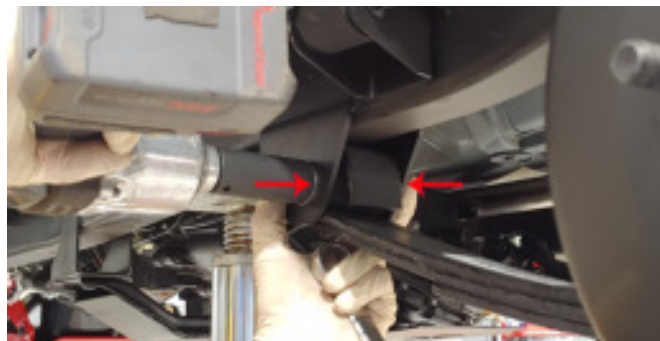


Install: 3 Inch Lift Kit Part Number: S-11AC00001556

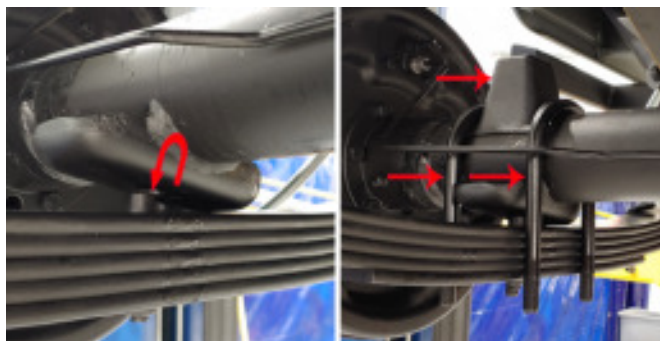
- 8. Swing leaf spring upward and fasten reusing (1) M10 bolt (1) M10 washer. Tighten fasteners but do not torque.



- 12. Install (1) M12 washer, (1) M12 nut and torque.



- 9. Lower and roll axle into spring locating pin. Re-install (1) bump stop and install (2) new u-bolts.



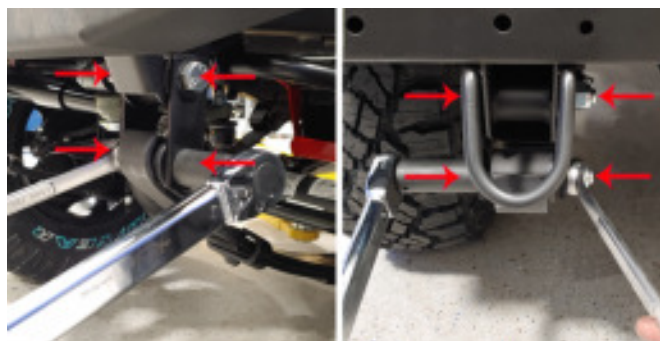
- 13. Using suitable grease gun, fill spring bolt with grease. Repeat all rear steps for opposite side.



- 10. Install (1) spring seat and tighten (4) M10 nuts.



- 14. Re-install wheels and lower vehicle fully. Torque Front and Rear Shackle bolts (nuts should still be loose) to specification at all axles.



- 11. Compress if necessary and install (1) shock. Reusing (2) M10 washers with (2) M10 nuts, torque fasteners.





Install: 3 Inch Lift Kit Part Number: S-11AC00001556

Adjust Master Drag Link

1. Loosen (2) pinch bolts on the tie rod master drag link.



2. Adjust tie rod ball studs at opposing angles to minimize rotation movement of tie rod master drag link. Then tighten and torque both pinch bolts.

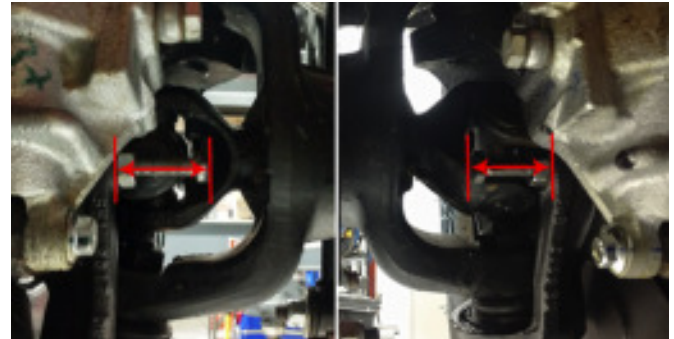
NOTICE Clocking each tie rod roughly 12° in opposite directions, limits the rotational movement of the tie rod master drag link which may cause steering clunk.



3. Loosen pinch bolts on connecting tie rod, then lengthen roughly 3 turns so that the steering gear box operates in the center of sweep.



4. Verify both steering stops are adjusted to 40 mm as shown.



5. Install (1) lift decal below ROXOR decal. Repeat for opposite side.

