



**2006 - 2012
Dodge 1500 4WD
1"- 2.5" Performance Strut
Installation Instructions**

REQUIRED TOOL LIST:

- Safety Glasses
- Metric / Standard Sockets & Wrenches
- Spring Compressor
- Floor Jack
- Jack Stands
- Measuring Tape
- Torque Wrench



Make sure you park the vehicle on a level concrete or asphalt surface. Many times a vehicle is not level (side-to-side) from the factory & is usually not noticed until a lift kit has been installed, which makes the difference more visible. Using a measuring tape, measure the front & rear (both sides) from the ground up to the center of the fender opening above the axle. Record this information below for future reference.

Driver Side Front: _____

Passenger Side Front: _____

Driver Side Rear: _____

Passenger Side Rear: _____

IMPORTANT NOTES:

- If larger tires (10% more than the stock diameter) are installed, speedometer recalibration will be necessary. Contact your local Dodge dealer or an authorized dealer for details.
- After installation a qualified alignment facility is required to align the vehicle to OEM specifications.

Kit Box Breakdown:

Part #: D6912ST

<u>ITEM#</u>	<u>DESCRIPTION</u>	<u>QTY</u>
D6920STS	DODGE 1500 STRUT SINGLE	2
STSP2	.467 STRUT SPCR RINGS / QTY4	1
I-D6912ST	INST SHEET: D6912ST	1

Front Installation:

1. Secure & properly block the rear tires of the vehicle on a level concrete or asphalt surface.
2. Raise the front of the vehicle from the front center cross member & remove the front tires / wheels. (See Photo # 1)
3. Disconnect the outer tie rod from the steering knuckle. **Note:** It may be necessary to strike the side of the knuckle to dislodge the tie rod end. Be careful not to damage the tie rod end. (See Photo # 2)
4. Disconnect the sway bar end links. (See Photo # 3)
5. Disconnect the upper A-arm ball joint from the top of the steering knuckle.
6. Disconnect the lower strut mount from the lower A-arm.
7. Remove the three upper strut mounting bolts from the upper frame mount. (See Photo # 4)
8. Using a strut spring compressor, unload the tension on the upper mount of the OEM coil assembly. Remove the upper shock retaining nut & slide the strut out from the bottom. (See Photo # 5)



Photo # 1



Photo # 2



Photo # 3

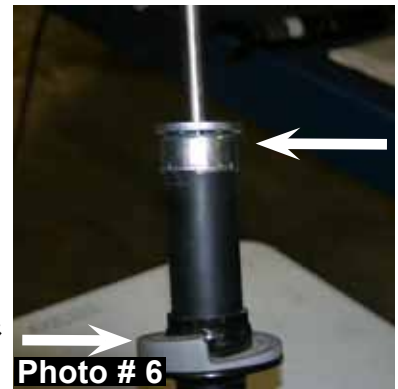


Photo # 4



Photo # 5

9. **06-08 Models:** At the upper hex portion of the shaft, rotate the shaft of the new Skyjacker strut assembly counter clockwise in order to unlock & extend the shaft of the new Skyjacker strut assembly. Assemble the new Skyjacker strut assembly by installing the new Skyjacker coil spring seat, new Skyjacker coil springpad, new Skyjacker strut end cap, new Skyjacker bump stop, OEM coil, & OEM upper hat on the new Skyjacker strut. Compress the coil spring & install the upper nut. (See Photo # 6) This will yeild approximately 1" of lift depending on vehicle options. (ie. winch, after market bumper, & etc) **Note: "One"** of the new Skyjacker coil seat spacer rings (Part # F964ST-SP1) can be installed below the new Skyjacker coil spring seat of each strut to yeild approximately 1 1/2" of lift depending on vehicle options (See Photo # 7) & **"Two"** of the new Skyjacker coil seat spacer rings (Part # F964ST-SP1) can be installed below the new Skyjacker coil spring seat of each strut to yeild approximately 2" of lift depending on vehicle options.



10. **09-11 Models:** At the upper hex portion of the shaft, rotate the shaft of the new Skyjacker strut assembly counter clockwise in order to unlock & extend the shaft of the new Skyjacker strut assembly. Assemble the new Skyjacker strut assemblyby installing the new Skyjacker coil spring seat, new Skyjacker coilspring pad, new Skyjacker strut end cap, new Skyjacker bump stop,OEM coil, & OEM upper hat on the new Skyjacker strut. Compress the coil spring & install the upper nut. (See Photo # 6) This will yeild approximately 1 1/2" of lift depending on vehicle options. (ie. winch, after market bumper, & etc) **Note: "One"** of the new Skyjacker coil seat spacer rings (Part # F964ST-SP1) can be installed below the new Skyjacker coil spring seat of each strut to yeild approximately 2" - 2 1/2" of lift depending on vehicle options. (See Photo # 7) **Do not install "Two" of the new Skyjacker coil seat spacer rings (Part # F964ST-SP1) below the new Skyjacker coil spring seat of each strut or driveline / cv-axle damage will occur.**



11. **Once the coil spring seat spacer rings have been installed check all suspension components for any contact or interference. If suspension component contact or interference is present, lower the coil spring seat by removing a coil spring seat spacer ring until no contact or interference is present.**



12. Install the new strut assembly into the vehicle & attach to the upper OEM frame mount using the OEM hardware. (See Photo # 8)

13. Attach the new strut assembly to the lower A-arm using the OEM hardware. (See Photo # 9)

14. Attach the outer tie rod to the steering knuckle & attach the upper A-arm to the steering knuckle. (See Photo # 10) **Note:** Periodically retorque the upper / lower ball joints & outer tie rod!



- 15. Reconnect the sway bar end links using the OEM hardware.
- 16. Install the front tires / wheels & lower the vehicle to the ground.

FINAL NOTES:

- After the installation is complete, double check that all nuts & bolts are tight. Refer to the following chart below for the proper torque specifications. (Do not retighten the nuts & bolts where thread lock compound was used.)
- With the vehicle placed on the ground, cycle the steering lock to lock & inspect the steering, suspension, brake lines, front & rear drivelines, fuel lines, & wiring harnesses for proper operation, tightness, & adequate clearance.
- Have the headlights readjusted to the proper settings.
- Have a qualified alignment center realign the front end to the factory specifications.
- Retorque all the bolts after the first 100 miles.

<u>TORQUE SPECIFICATIONS</u>					
<u>INCH SYSTEM</u>			<u>METRIC SYSTEM</u>		
Bolt Size	Grade 5	Grade 8	Bolt Size	Class 8.8	Class 10.9
5/16	15 FT LB	20 FT LB	6MM	5 FT LB	9 FT LB
3/8	30 FT LB	35 FT LB	8MM	18 FT LB	23 FT LB
7/16	45 FT LB	60 FT LB	10MM	32 FT LB	45 FT LB
1/2	65 FT LB	90 FT LB	12MM	55 FT LB	75 FT LB
9/16	95 FT LB	130 FT LB	14MM	85 FT LB	120 FT LB
5/8	135 FT LB	175 FT LB	16MM	130 FT LB	165 FT LB
3/4	185 FT LB	280 FT LB	18MM	170 FT LB	240 FT LB

- The above specifications are not to be used when the bolt is being installed with a bushing.

Seat Belts Save Lives, Please Wear Your Seat Belt.