



*Professional Grade Suspension*

## Installation Instructions (X-0012)

### Aldan American, Road Comp Series - Front Coilover Conversion Kit

Item #	Part #	Description	QTY
1	AS-8XX	Phantom Series Coil-Over Shock	2
2	10XXXUSX	Conical Coil-Spring (Black)	2
3	ALD-16	GM 3.5" T-Bar Mount, Set	1
4	71006	Lower GM T-Bar Hardware Kit	1
5	ALD-50	One Piece Spring Retainer Assembly	2

\*This kit is designed to replace your front factory shocks and springs to a coilover shock system on select cars & trucks

\*The user understands that Aldan is not responsible for any direct or indirect use or misuse of any Aldan product. Specialized equipment and race parts within this kit are exposed to varied conditions based on how they are installed and used by the user. A professional shop and installer is recommended for all Aldan products. Aldan is not responsible for fitment issues outside the OEM mount locations (Exhausts, Aftermarket Axles, Sway Bars, Fuel Cells, etc.). Use proper safety equipment along with jacking locations and jack stands at all times when installing. Aldan shall not be liable for any claims, injuries, actions or causes of action with the use of any Aldan product.

\*Recommended Tools: Floor jack or vehicle lift (User proper jacking locations per the manufacturer). Jack Stands, Tire chalk, Toque Wrench, Basic Hand Tools

Visit [www.aldanamerican.com](http://www.aldanamerican.com) for additional guides, video and installs updated regularly.



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## Road Comp, Front Coilover Kit Installation Instructions

- Prior to disassembly measure and record the ride height at all four corners on a flat level surface. This is the only way to determine that the vehicle is level before disassembling. (Fig. 1)
- Follow the use of personnel safety precautions and protection.
- Jack vehicle up and use jack stands under the frame rails to safely support it.
- Remove the front wheels.
- Remove the front shocks and coil springs. Follow a service manual if necessary.
- Loosen the lower A-arm bolts so the A-arm moves freely.
- Drill out the lower shock mounting holes to 3/8" if necessary. Check fit the lower T-bar to the lower A-arm. The inside edges may need to be filed to fit the flats on the T-bar. Remove the lower nuts from the A-arm.
- Assemble the coil springs on the shocks. Anti-seize compound is necessary on spring seat adjusting threads to prevent them from seizing.
- Install the upper shock bushings and allow front coil over shock to hang. Do not tighten yet. Make sure the upper spring is located in the spring pocket. Fig. 2
- Put the 3/8" bolts and washers in the T-bar with the threads pointing down.
- Bring the lower A-arm up to the T-bar and attach the nuts from the underside. The shock will now be bolted to the topside of the A-arm. Torque shock bolts to 35 ft. lbs.
- Reassemble the front suspension. Fig. 3
- Reinstall wheels and place your car back on the ground.
- With the wheels on the ground, the upper shock bushings can now be tightened.
- Measure and compare new height with the previously recorded height.
- To adjust the ride height, support with frame on jack stands with the A-arms at droop turn the adjusting collars using a spanner wrench (Aldan P/N ALD-1). Loosen the spring seat to lower or tighten to raise height.
- After ride height is set torque the lower control arm bolts to 75 Ft. lbs. with wheels on the ground.
- To adjust the compression dampening turn the adjuster knob counter clockwise to soften or clockwise to increase the dampening. The knob turns all the way around with not stop.
- *Your vehicle will require that the front-end alignment is checked by a qualified wheel alignment specialist.*



Fig. 1



Fig. 2

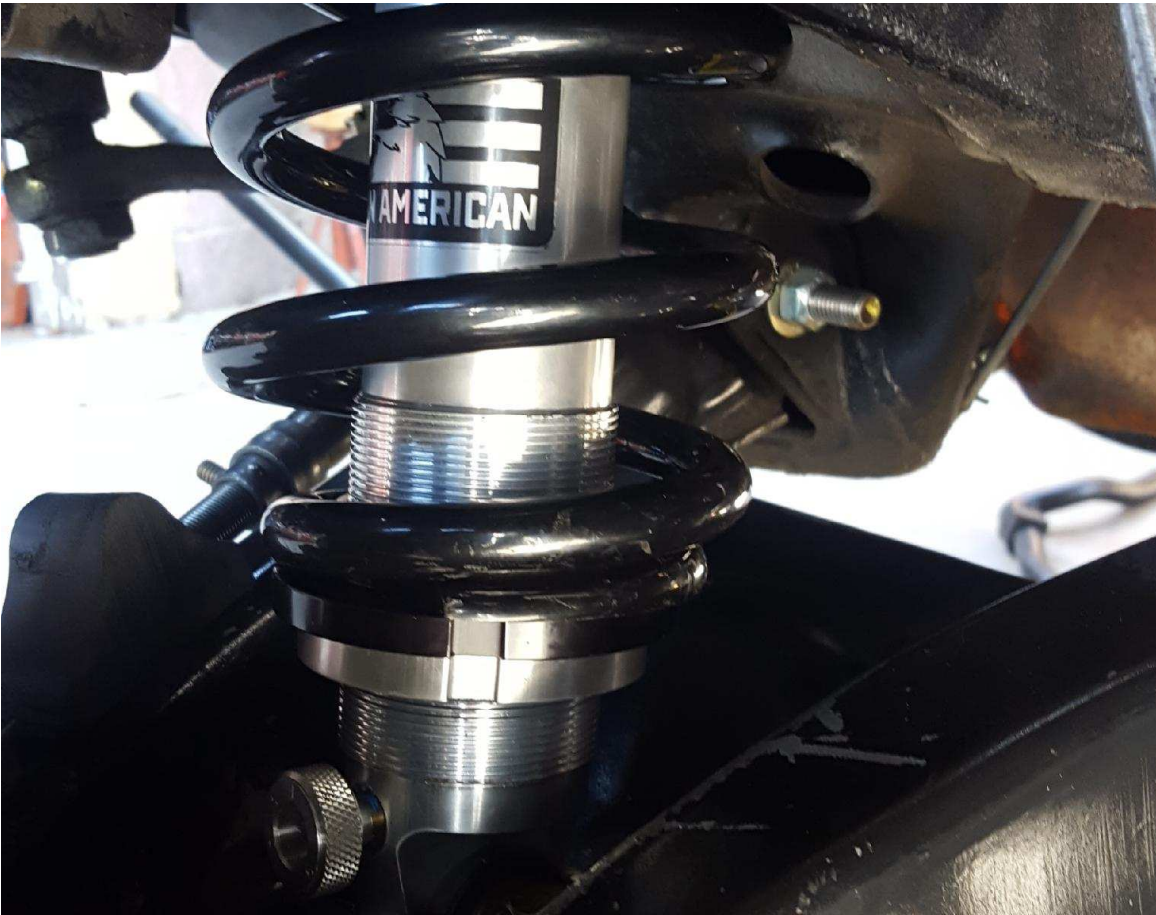


Fig. 3







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## Installation (X-0015)

### Instructions – ALD-50; One Piece Spring Retainer

**\*NOTES:**

- DO NOT OVERTIGHTEN SET SCREW.
- SET SCREW HAS PRE-APPLIED THREAD LOCKER APPLIED ON THREADS.



**Step 1.** Remove retainer and supplied set screw from bag (If not already installed).



**Step 2.** Install your coil spring on your Aldan shock.



**Step 3.** With anti-seize applied on your spring retainer threads, set screw installed (hand tight at this point); thread the retainer onto the coilover shock body.



**Step 4.** With the spring preload set at a baseline setting (We recommend starting at 1.0" of pre-load on our coil-springs). With the spring retainer installed; anti-seize applied on threads and set screw installed, you can now move to Step 5.



**Step 5.** With the set screw hand tight in the retainer, use a 5/32" Allen wrench and turn an additional 1/4 turn by hand.  
**(\*Do not over tighten)**



**Step 6.** Retainer should be tight on the shock body with zero movement or play once installed. Your spring and spring retainer installation is now complete.



**Step 7.** You may need to re-adjust the retainer further using a spanner wrench to get your final ride-height once the coilover is installed on your chassis. Loosen the set screw and repeat steps if additional pre-load and height adjustments are needed for your application.

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