



C-2545 2007-2011 ESCALADE, SUBURAN  
YUKON LONG WB COIL CONVERSION KIT



Congratulations on your selection to purchase an Arnott Air Suspension System. We at Arnott Air Suspension Systems are proud to offer a high quality product at the industries most competitive pricing. Thank you for your confidence in us and our product.

Proper installation is essential to experience and appreciate the benefits of this system. Please take a moment to review these installation instructions before you begin to install this system on your vehicle.

It is equally important to be aware of all necessary safety measures while installing your new Air Ride System. This includes proper lifting and immobilizing of the vehicle and isolation of any stored energy to prevent personal injury or property damage.

*“Engineered to Ride, Built to last”*



**WARNING:** *The air suspension system is under pressure (up to 10 bar, or 150 lbf/in ) verify pressure has been relieved and disconnect power to the air ride system prior to disassembly. Do not allow dirt or grease to enter the system. Always wear standard protective hand, ear, and eye protection when servicing the air suspension system.*

**C – 2546 COIL CONVERSION KIT CONTAINS:**

PARTS LIST		
P/N	QTY	DESCRIPTION
29-5009	2	SHOCK ABSORBERS, FRONT
21-5126	2	SHOCK ABSORBERS, REAR
14-3936	2	REAR COIL SPRINGS
21-5226	1	SPOOFER



***\*Removal and installation is only to be performed by fully qualified personnel.***



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**\*CAUTION:** *Damage to the vehicle and shock assembly can be incurred if work is carried out in a manner other than specified in the instructions or in a different sequence.*

**COIL SPRING AND REAR SHOCK ABSORBER REMOVAL/INSTALLATION:**

PARTS LIST		
P/N	QTY	DESCRIPTION
21-5126	2	REAR AIR SHOCK
14-3936	2	REAR COIL SPRINGS



21-5126



14-3936

**Air Shock Removal/Installation:**



*The ignition must remain switched off during the shock removal and replacement.*



*Use lifting platform (hoist) that is capable of raising the body separately from the wheels, lift body at the lifting points prescribed by the vehicle manufacturer.*

*Vehicle slippage can cause danger to life and limb.*

- 1.0 Raise vehicle.
- 2.0 Remove rear tires.

**NOTE:** Refer to Figure B for steps 3.0- 8.0 (air shock removal/installation).

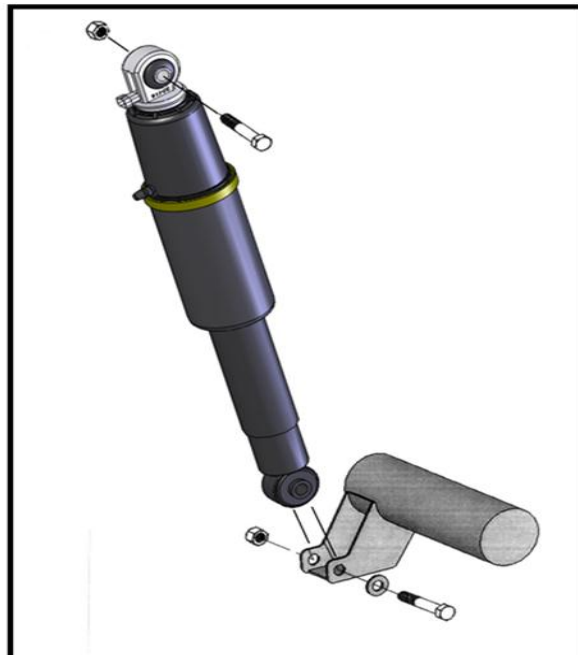
- 3.0 Disconnect the shock sensor connector at the top of the shock (1) (Removal only).
- 4.0 Disconnect the air line by turning clip 90°. Locate and disconnect ride height sensor.
- 5.0 Remove the upper air shock nut and bolt.



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- 6.0 Disconnect brake line which is bolted to rear axle differential.
- 7.0 Disconnect sway bar and link. Have a floor jack under axle.
- 8.0 Remove the lower air shock nut and bolt .
- 9.0 Remove air shock, (Install Spring before completing shock Install).
- 10.0 Removal complete, installation is in the reverse order of removal. Install upper shock bolt, and allow shock to hang until spring installation is complete. Torque shock bolts to 70 ft-lbs.



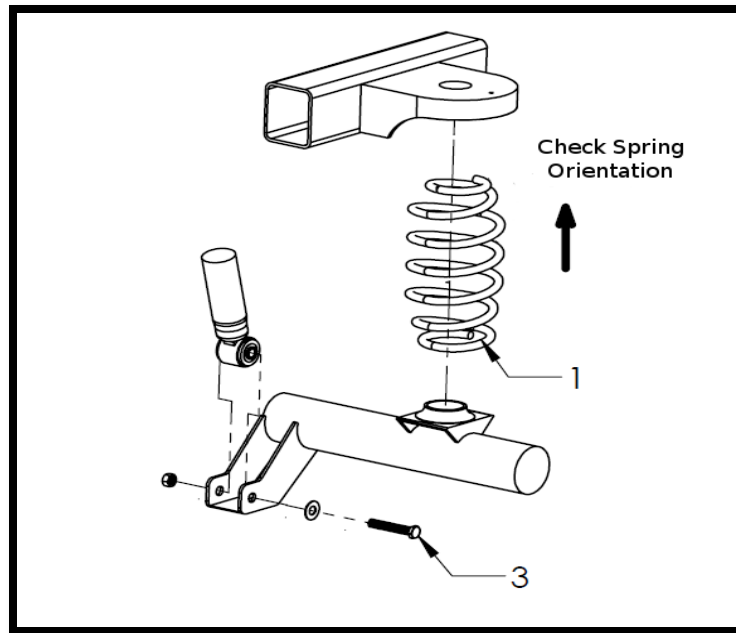
**FIGURE B**

**Coil Spring Installation:**

- 1.0 Install the coil springs onto the rear axle.
- 2.0 Using a floor jack raise the rear axle.
- 3.0 Install the lower shock absorber retaining nut and bolt to the rear axle. Tighten the lower shock absorber retaining nut and bolt to 95 N-m (70 lb-ft).
- 4.0 Replace tire and wheel assembly. Tighten wheel hub bolt nuts to 115-142 N-m (85-105 lb-ft).
- 5.0 Remove all safety stands and lower vehicle.



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**WARNING:** Make sure to tighten all wheel hub bolt nuts to 115-142 Nm (85-105 lb-ft). Failure to heed to this warning could result in vehicular damage and serious bodily injury.



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**Front Shock Installation:**



**WARNING:** Before disassembling the front suspension refer to the vehicle remanufacturer's Service Manual for proper procedures. Failure to heed to this warning could result in vehicular damage and serious bodily injury.

PARTS LIST		
P/N	QTY	DESCRIPTION
29- 5009	2	SHOCK ABSORBERS, FRONT



29-5009

**Removal:**

- 1.0 Raise and support the vehicle.
- 2.0 If equipped with selectable ride, disconnect the Real Time Damping (RTD) link rod from the sensor. Grasp the connector lock tabs. Rotate the connector lock tabs (1) and (2) counter-clockwise until the connector is unlocked. Disengage the connector from the tennon by firmly pulling the connector up. Hold the tennon end with a wrench while removing the nut. Remove the nut. (FIGURE 10-2)



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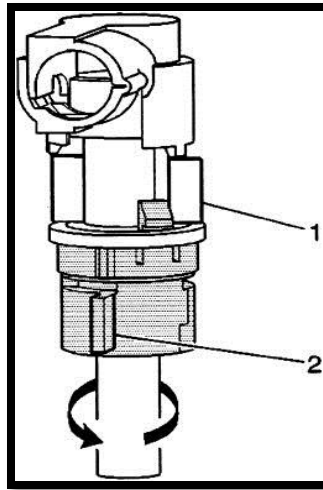


FIGURE 10-2

- 4.0 Remove the upper insulator.
- 5.0 Remove the shock absorber mounting bolts at the lower control arm. Remove the shock absorber through the lower control arm from below. (FIGURE 10-3)

**Installation:**

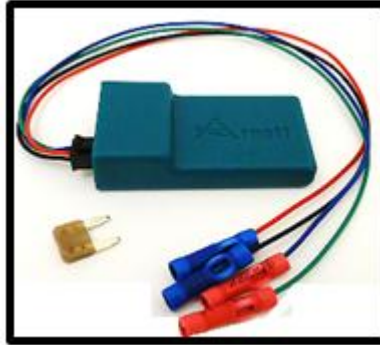
- 1.0 Support the lower control arm with a suitable jack in order to align the tennon with the mounting hole if equipped with selectable ride.
- 2.0 Install shock absorber through the lower control arm from below .
- 3.0 Connect tennon through the mounting hole in the upper spring pocket . (FIGURE 10-4)
- 4.0 Align the shock absorber with the mounting hole in the lower control arm. (FIGURE 10-5)
- 5.0 Install shock absorber mounting bolt to the lower control arm. Tighten to 70 ft. lbs. (25 Nm). (FIGURE 10-5)
- 6.0 Connect upper insulator to the shock absorber . (FIGURE 10-3)
- 7.0 Install nut to the tennon end. Do not tighten the nut.
- 8.0 Remove the safety stands.
- 9.0 Lower the vehicle. Hold the tennon end with a wrench while torquing the nut. Tighten the nut to 15 ft. lbs. (20 Nm).



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**SPOOFER INSTALLATION:**



21-5226

PARTS LIST		
P/N	QTY	DESCRIPTION
21-5226	1	SPOOFER
29-5138	1	FUSE 5 A



FIGURE A



FIGURE B

- 1.0 Locate and remove the spare tire under the rear of the truck.
- 2.0 Locate suspension module above spare tire corner bracket . Release clip attaching wire harness to module. Figure A & B.



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Figure C



Figure D

- 3.0 Once wire harness clip is removed. Unplug harness and allow wire harness plug to hang down. Figure C & D.

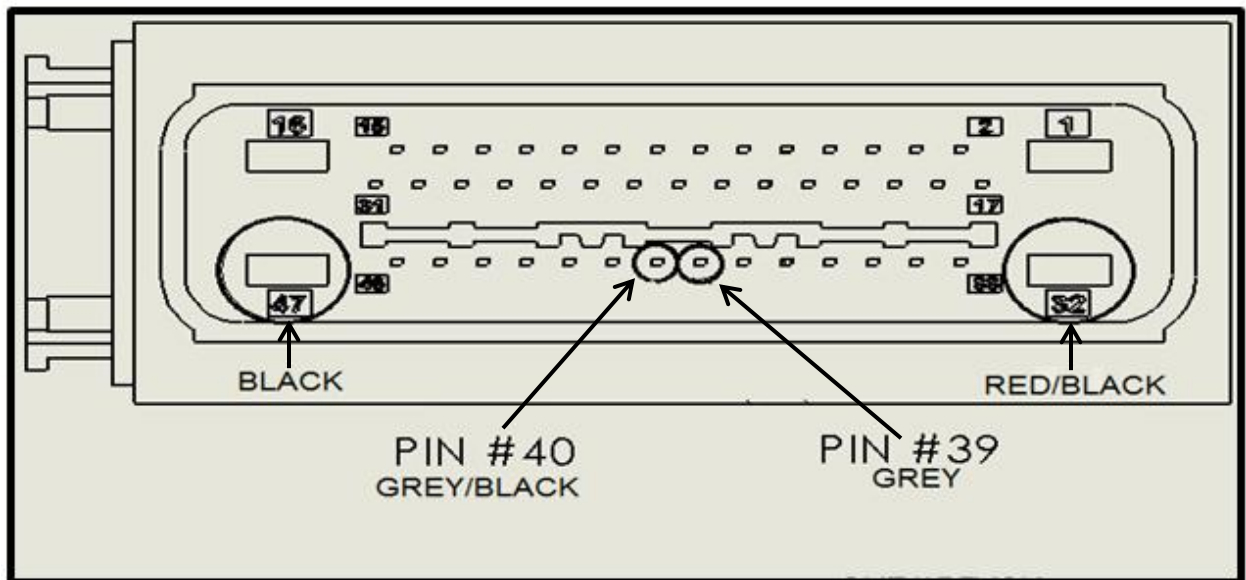


Figure E





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- 4.0 Using Figure E locate the red w/black stripe, solid black, solid grey and grey w/black stripes wires. (Verify top from the bottom of plug to locate correct wires.)

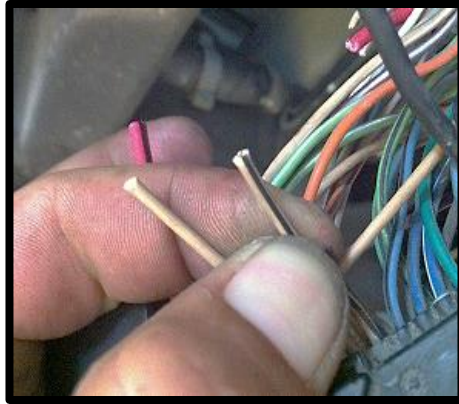


Figure F

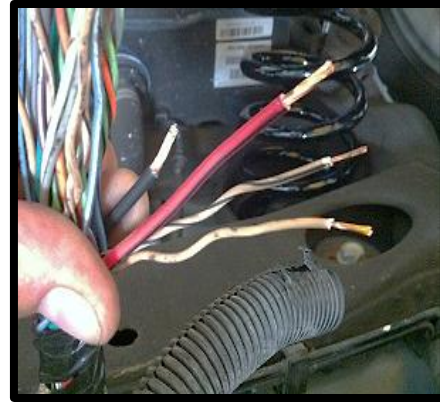


Figure G

- 5.0 Cut each wire about 2 inches back from the plug. Strip all 4 wires on the wire harness side (not the plug side). Figure F & G.

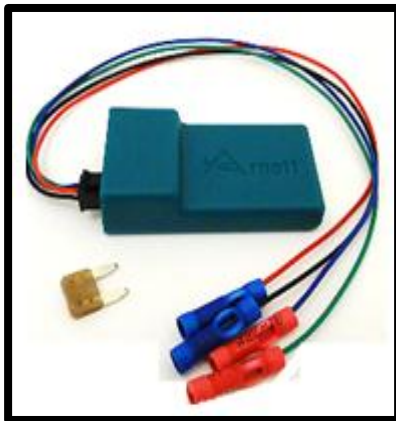


Figure I

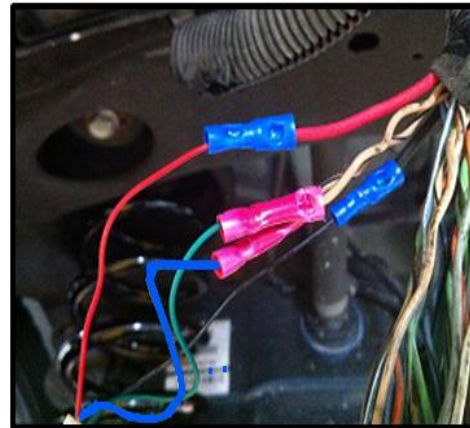


Figure J



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SPOOFER SIDE	FROM	TO	WIRING HARNESS SIDE
	→		
	BLUE	GREY/BLACK STRIPE	
	RED	RED/BLACK STRIPE	
	GREEN	GREY	
	BLACK	BLACK	

6.0 Using the wiring diagram match up the wires and connect them together with the butt connectors. Figure I & J



Figure K



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- 7.0 Once all the wires have been connected you will need to secure the spoofer to the wire harness as shown in figure K. Secure harness to tire support but do not plug back into module.



Figure L

- 8.0 Locate the fuse box under the hood. Locate 30 amp fuse Figure L.



Figure M



Figure N

- 9.0 Replace the 30 amp fuse with a 5 amp fuse. Figure M & N.

- 10.0 Replace spare tire. Installation complete.