



MIESSLER AUTOMOTIVE
GmbH & Co. KG®

MIESSLER COIL SPRING CONVERSION KIT

AUDI A6, ALLROAD QUATTRO (2001-2006)



It is strongly recommended that the described procedures are carried out by a qualified Vehicle Mechanic working in a car workshop.

The use of gloves is recommended. Safety eyewear should also be worn when charging the air spring module with compressed air.



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 suspension system prior to disassembly. Do not allow dirt or grease to enter the system. Always wear standard hand, ear, and eye protection when servicing the air suspension system.

GENERAL INFORMATION:

- Not to be stored below 5 oF (-15 oC) or above 122 oF (50 oC).
- Avoid damage to air lines and cables.
- It is strongly recommended that the described procedures are carried-out by a qualified Vehicle Mechanic working in a car workshop.
- Use car manufacturer's diagnostic software.

CAUTION: Damage to the vehicle and air suspension system can be incurred if work is carried out in a manner other than specified in the instructions or in a different sequence.



To avoid the possibility of short circuits while working with electric components consult your owner's manual on how to disconnect your battery.



Consult your vehicle owner's manual, service manual, or car dealer for the correct jacking points on your vehicle and for additional care, safety and maintenance instructions. Under no circumstances should any work be completed underneath the vehicle if it is not adequately supported, as serious injuries and death can occur.

FRONT AIR STRUT REMOVAL

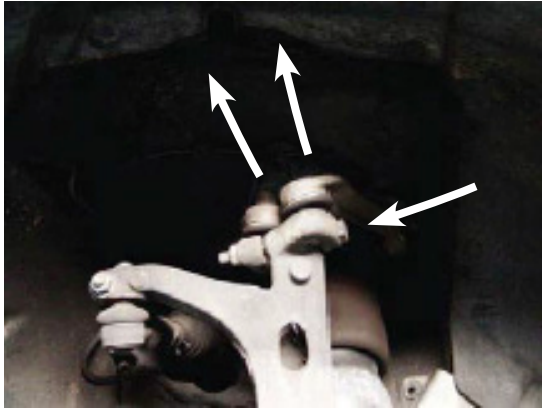
1. Set the steering to straight ahead.
2. Raise the vehicle.
3. Remove front wheels.
4. Start by removing the remaining air pressure from the front air spring. To deflate the air spring, carefully unscrew the air fitting from the top of the air spring.
5. Loosen and remove the lower shock bolt (10.1).



Figure 10.1



[®] In case of improper replacement Miessler Automotive[®] shall not be liable for any damage to the vehicle and the parts. Any changes to the product like improper alteration will void the warranty!



6. Remove the pinch bolt and both ball joints from the spindle assembly.



7. Make sure to secure the front hub assembly to eliminate any stress on the brake lines and front drive shafts. Loosen the 3 top bolts under the hood. Leave one bolt finger tight to prevent the assembly from falling out.



8. Carefully remove the air strut assembly from the vehicle.



9. Using a 12 point triple square bit, remove the 6 upper strut mounting bolts holding the air strut to the top cast aluminum mount.



10. Remove the air strut from the upper mount.

Removal complete.

FRONT COIL STRUT INSTALLATION



Tighten all nuts and bolts to manufacturers specifications during the installation process.



1. Align the coil spring to the upper mount in same orientation the air strut was removed. Then install and secure 6 top mounting bolt supplied.



2. Install the coil spring assembly onto the vehicle in reverse order of air strut removal.

Installation complete.

REAR AIR STRUT REMOVAL

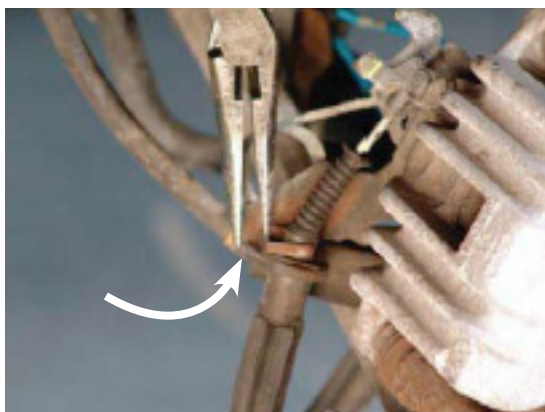
1. Start by removing the remaining air pressure from the rear air spring. To deflate the air spring, carefully remove the air fitting from the bottom of the air spring.



2. Loosen and remove the upper mounting plate bolts.



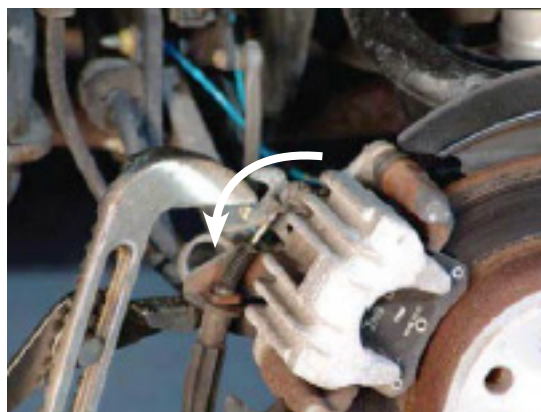
4. With the shock loose, collapse the shock absorber by pushing downward on the upper plate to allow you to dislocate the upper mount from its mounting perch. Pull the air strut assembly up and out of the lower control arm.



6. Remove the parking brake cable retaining clip, and slide the cable out of its mount.



3. Remove the lower strut bolt connecting the strut to the lower control arm.



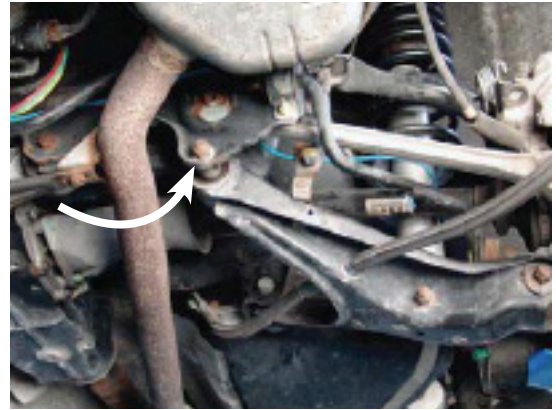
5. With the aid of a large pair of pliers, compress the parking brake lever and remove the cable.



7. Remove the bolt securing the wheel speed sensor on the front side of the wheel hub.



8. Locate the height sensor bracket on the back left of the lower control arm and remove its mounting nut from the inside of the control arm to free the height sensor.



9. Next, loosen but DO NOT remove the lower control arms rear most bolts to eliminate binding during installation.



10. Using a paint marker, mark the eccentric bolts alignment at the knuckle and remove it being sure to turn the nut on the backside.

11. After all fasteners are removed, the lower control arm should hang free.

Removal complete.

REAR COIL STRUT INSTALLATION



Tighten all nuts and bolts to manufacturers specifications during the installation process.



1. Install the rear coil strut up from the bottom, making sure the locating pins are facing outward. Install the two (2) factory upper mounting bolts and tighten.

2. Swing the control arm up to align the shock bushing to its mounting hole. Secure with the factory hardware.



3. Using a floor jack, lift directly under the shock mount until you can align the bottom mounting bolt.



4. Align the marks previously made on the eccentric bolt and tighten. At this point, go back and tighten the rear most bolts of the lower control arm.

5. Finish by reinstalling the wheel speed sensor, parking brake cable, and height sensor mounting bracket.

Installation complete.



It is necessary to have your vehicle aligned after installing this kit.

ELECTRONIC BYPASS MODULE INSTALLATION



1. Remove the door cover located on the left side of the cargo area to expose the vehicles air suspension wiring harness and control module.



2. Remove both plugs located on the control module.



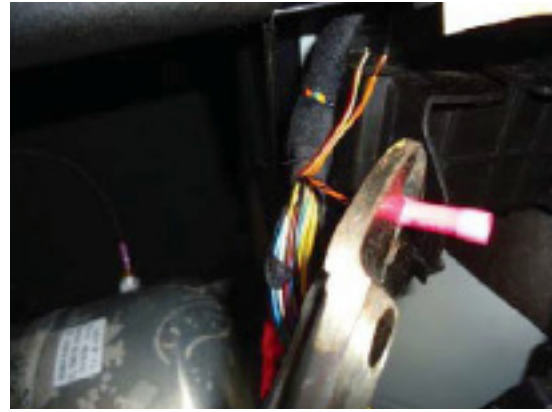
3. Remove the cover of the larger plug by sliding it off of the end.

4. Locate the following wires in the chart below from the vehicle's wiring harness.

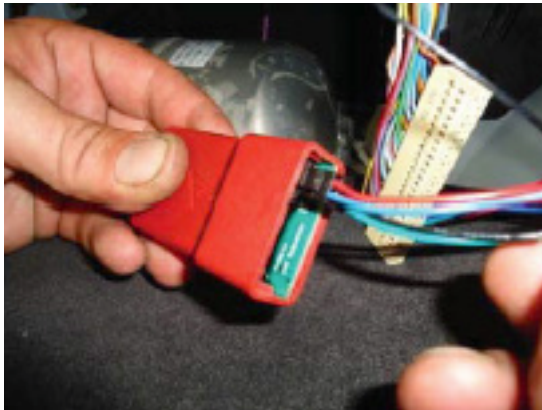
ELECTRONIC BYPASS MODULE	FROM	PIN#	VEHICLE'S WIRING HARNESS
	BLUE	20	
	GREEN	21	
	RED	25	
	BLACK	1	



5. Separate the located wires and cut, leaving a suitable length to work with.



6. Strip the ends of the wires. Using the supplied butt connectors, crimp the electronic bypass module to the vehicle side of the wiring harness.



7. Connect the new plug to the electronic bypass module and secure it in a suitable location.



9. Do NOT plug wiring harness back into the vehicles air suspension control module. Replace the door cover.

Installation complete.



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