

INSTALL/REMOVAL INSTRUCTIONS: AIR SUSPENSION CONVERSION KIT

ATTENTION: Refer to the appropriate shop manual for your vehicle to obtain specific service procedures for this part. If you do not have a service manual or lack the skill to install this part, it is recommended that you seek the services of a qualified technician. Pay special attention to all cautions and warnings included in the shop manual. Read and follow all instructions carefully.

Air Suspension Conversion Kit General Installation Instructions

When servicing any vehicle be sure to follow all safety procedures. First, make sure that when lifting the vehicle that you use an appropriate jack with a proper weight rating. Before going underneath any vehicle, make sure that it is properly supported with sturdy jack stands and on level ground so that the vehicle doesn't fall or slide off of the jack and onto you. As with any automotive repair, make sure you have the appropriate tools to do the job so you don't damage any parts on the vehicle. Safety glasses and mechanic's gloves should also be worn for your protection.

Take care not to exceed the Gross Vehicle Weight Rating (GVWR), or the maximum load recommended by the manufacturer. It is important that all the vehicle owner manuals recommendations are followed for your own safety and to prevent damage to the vehicle.

Once you are ready to disable the ride light, you will need to disconnect the negative battery cable (-) to prevent electrical shock/malfunction.

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Installation guide

Parts included in this kit

- (4) Assembled struts

Tools needed for installation

- Metric sockets
- Metric wrenches
- Torx bits
- General tools
- Floor jack & stands or two post hoist
- Level work surface

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Front Air Spring Removal & New Strut Installation Guide

Disconnect Battery

- Raise vehicle high enough to remove wheels.
- Open the hood and locate the electrical connector in the center of the air spring and disconnect it. (Fig. 1)
- Remove the air line, then remove the 4 stud nuts. (Fig. 2)

Fig. 1

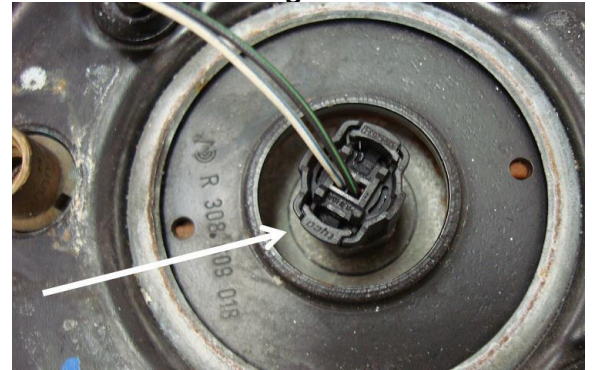
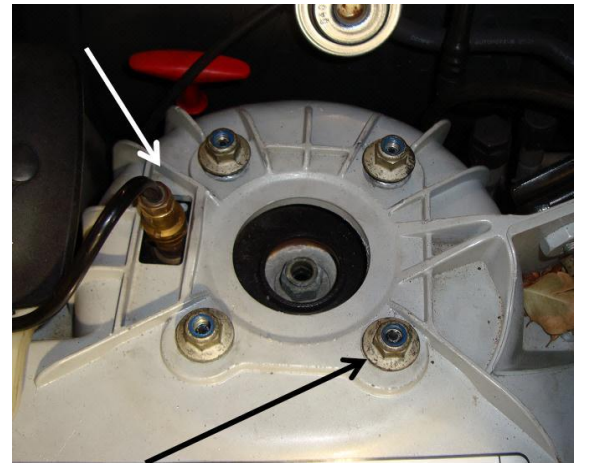


Fig. 2

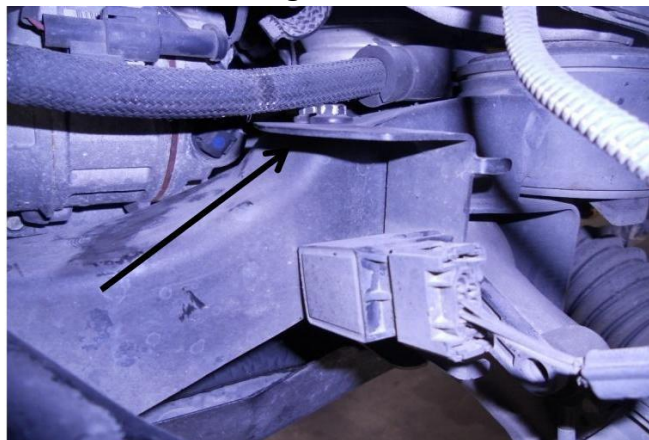


- Remove the brake line bracket from the frame. (Fig. 3)
- Remove height sensor bracket from the frame. (Fig. 4)

Fig. 3



Fig. 4



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Front Air Spring Removal & New Strut Installation Guide

- Remove the sway bar link from the control arm. (Fig. 5)
- Remove the upper ball joint nut to separate the upper 'A' arm from the spindle arm. (Fig. 6)
- Remove the lower air spring mounting bolt. (Fig. 7)
- Pull down on lower control arm and lift up air spring to clear the lower arm for removal from vehicle.

Fig. 5

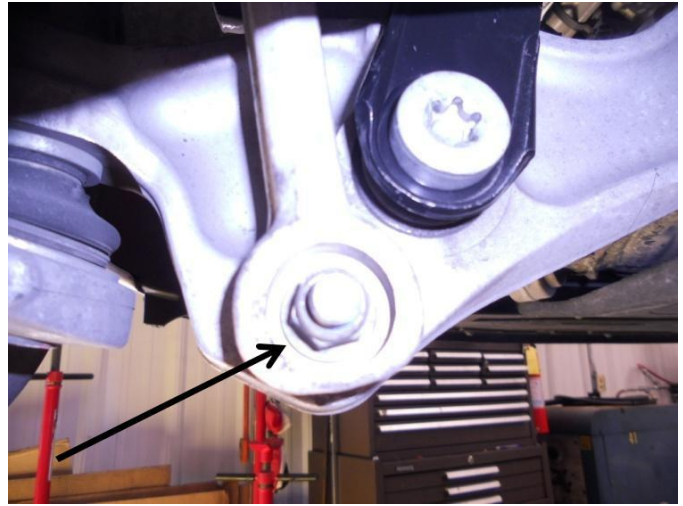


Fig. 6



Fig. 7



Repeat steps on other side of vehicle.

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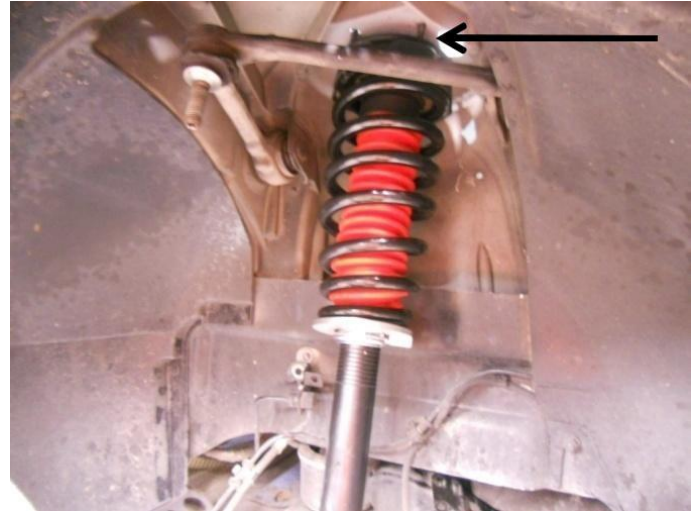
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Front Air Spring Removal & New Strut Installation Guide

New Strut Installation

- Remove the nuts and washers from the top of the new coil over strut.

Fig. 8

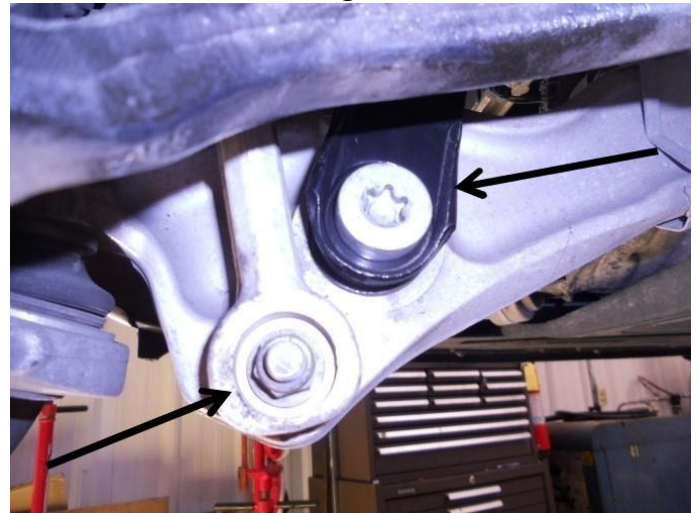


- Guide the top of the strut up into and through the upper 'A' arm and into the four stud mounting holes. Place one of the washers and a nut onto one of the studs to hold the strut in place. (Fig. 8)

- Pull down on the lower control arm and guide the lower strut mounting bracket over the arm.

- Place the lower mounting bolt into the bracket and tighten. (Fig. 9)

Fig. 9



- Install the remaining washers and nuts on the upper studs and tighten all nuts.
- Reinstall the sway bar link. (Fig. 9) Also, reconnect 'A' arm to spindle arm and tighten.
- Reinstall the brake line bracket and also the height sensor bracket. (Fig. 3 – 4)

Make sure all bolts and nuts are tight.

Repeat procedures on other side of vehicle. Then reinstall wheels.

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Rear Air Spring Removal & New Strut Installation Guide

Raise vehicle high enough to remove wheels

- Open trunk and remove the compartment side trim panels to access the air spring upper mounting studs, electrical connector, and air line. (Fig. 1)
- Remove the electrical connector and air line from the top of the air spring. (Fig. 2)
- Remove the four stud mounting nuts.
- Remove the rear track bar from the spindle hub. (Fig. 3)
- Remove the lower air spring mounting bolt. (Fig. 4)
- Remove air spring.

Fig. 1



Fig. 2

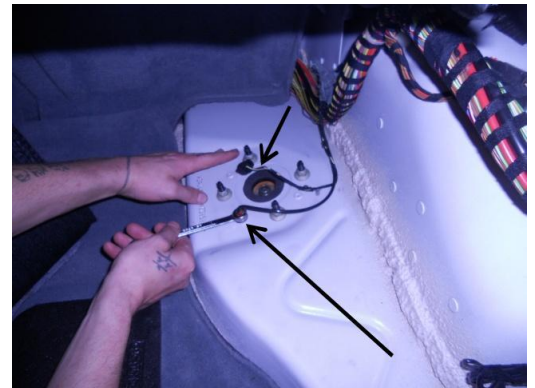


Fig. 3



Fig. 4



Repeat steps for other side

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Rear Air Spring Removal & New Strut Installation Guide

New Strut Installation

- Remove the nuts and washers from the new coil over strut.
- Install the new strut, with the four studs at the top, into the existing holes in the trunk. (Fig. 1)
- While holding strut up, align the lower mounting hole and install bolt. **Hint:** It may be necessary to pry down on the suspension to align bolt. (Fig. 2)
- Tighten the lower mounting bolt.
- Reinstall the track bar and tighten. **Hint:** Put the vehicle in neutral to help align track bar. (Fig. 3)
- Install washers and nuts on the four mounting studs and tighten.
- Wire-tie air line and electrical connector to the wiring harness.
- Make sure all bolts are tight.
- Install trunk trim panels.
- Install wheel.
- Repeat steps for opposite side of vehicle.

Fig. 1

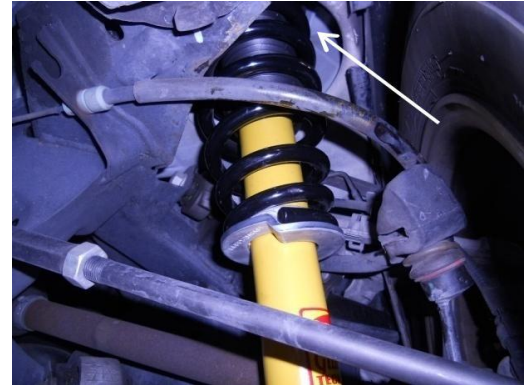


Fig. 2



Fig. 3



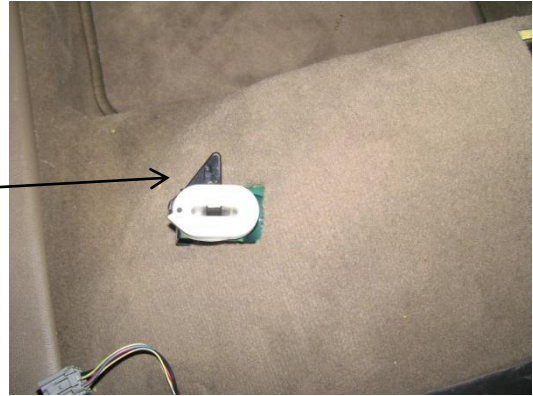
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Bypass Module Installation Supplement

- Remove rear seat by pulling the four levers under the lower cushion and lifting the seat.



- Pull on the two straps at the base of the rear cushion to release the upper latch holding the top of the cushion. Lay cushion forward.



- Remove insulation pad to access the suspension module, located behind the pad.



- Locate the suspension module behind the insulation pad.



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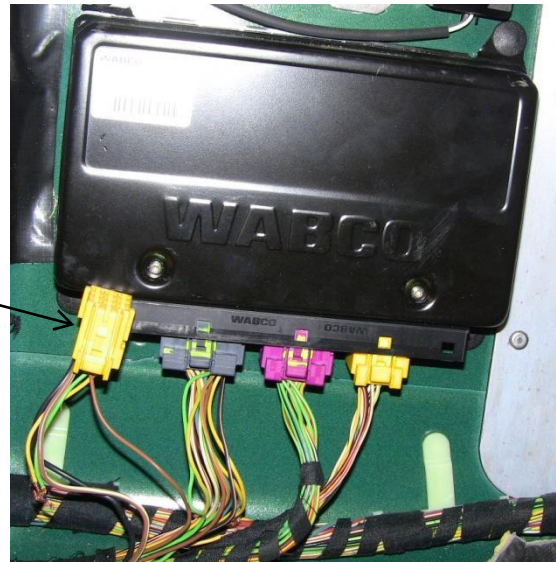
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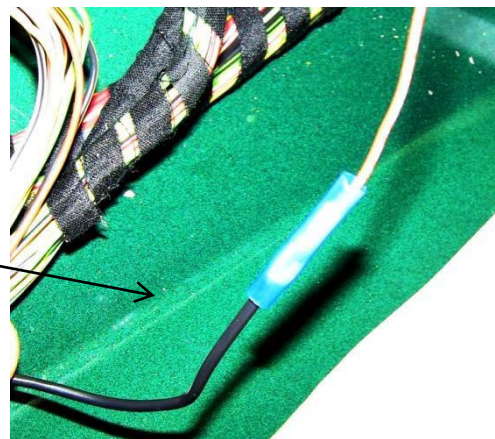
- For the ground wires and the 2 can wires you will be working in the 1st yellow connector on the left side of the suspension module.



- Disconnect this connector only and leave it disconnected.



- Locate and cut the black wire from the yellow connector. From the harness side of the cut wire, splice together with the brown wire on the module light out box.

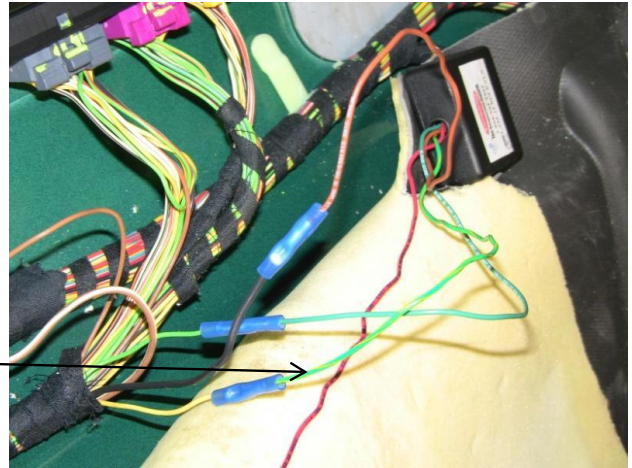


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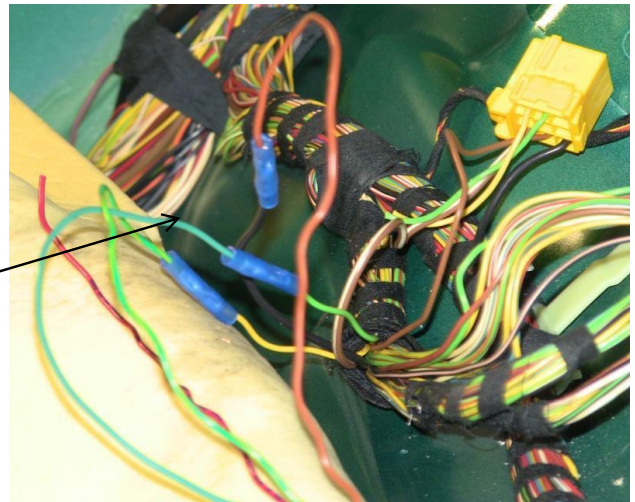
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- Locate and cut the yellow wire from the yellow connector. Attach the harness side of cut wire to the green/yellow striped wire from the module



- Locate and cut the green wire from the yellow connector. Attach the harness side of the cut wire to the green wire on the module.



- At this point you should have both CAN wires connected and the ground connected.

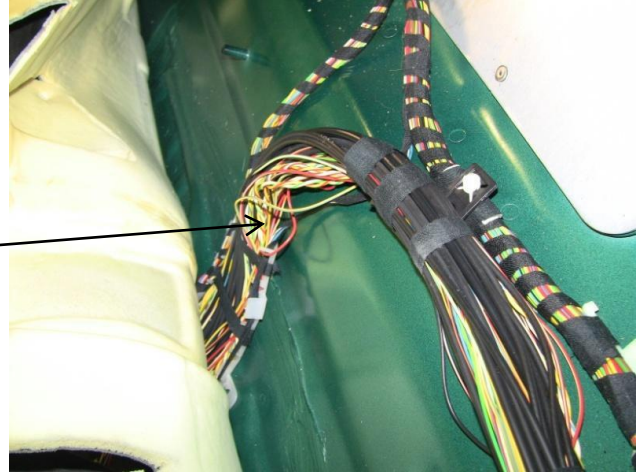


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- To locate and connect the power wire, first locate the main body harness behind the pad running under the center of the bottom seat cushion. In this harness it will be a yellow wire with a blue stripe.



- Using the provided butt connector, attach the red wire from the light out module to the yellow with blue striped wire. Be sure to keep yellow wire in circuit.

Note: This wire will not be twisted together with another wire, and it will have 12Volts with the Key-On.

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- Return the rear seat insulation back to its original position. Pay close attention to both edges that they are tucked under the adjoining trim.
- When placing the seat back into place be certain the release straps are in the relaxed position and exposed.
- Slide the seat bottom into place and then press down on the front of the pad to secure.

