



*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 these components on your vehicle. The removal and installation of suspension products should only be performed by a fully qualified, ASE Certified, professional.*

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



**WARNING:** The air/hydraulic suspension system is under pressure (up to 10 bar, or 150 lbf/in). Verify pressure has been relieved and disconnect power to the 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 suspension system.



## Removal and Installation

Lift the vehicle and support by the frame. Locate the airline going to the rear air spring.

Loosen air line nut to release air pressure in the bag. **(CAUTION) Suspension may retract as pressure is released.**

Remove the air fitting from the air spring.

Lower the vehicle until the rear tires touch the ground.

Open the rear hatch and remove the rear interior side trim panels to gain access to the two-upper shock mounting nuts.

Remove the nuts retaining the shocks.

Now lift vehicle and remove wheels.

Remove the lower shock bolt and remove shock.





Remove the air spring from vehicle by prying the bottom of the air spring from control arm and then pry the upper from the chassis.

You will notice a plastic pin left in the upper chassis. Leave this plastic pin in place as it will locate the new upper spring seat.

Repeat steps for opposite side of vehicle.

Before installing the new kit you must pinch over the air line and place a zip tie over the line to seal it off.

Remove a flat spring seat and bolt assembly from the hardware package.

Remove the nut from the bolt and remove the flat spring seat leaving you with the bolt and large washer.

Install the bolt with large washer through the bottom side of the control arm hole.







Place the flat spring locator onto the bolt on the top side of the control arm and then install small washer and lock nut.



Make sure underside large washer is in the center of the control arm recess then tighten the nut and bolt.



Prior to installing the spring, you will need to install the new shock into its upper mount inside the vehicle. Tighten the nuts.



Using a set of spring compressors, compress the new spring approximately 1 inch then place the large end of the spring around the locator on the control arm.





Before releasing the spring compressors, you must install the upper spring seat onto the top of the coil spring. First rotate the coil spring so that the bottom "end" coil faces outwards towards the hub assembly



Pull downwards on the knuckle assembly/control arm to install the upper spring seat into the top of the coil spring.

While the suspension is held down position the spring and puck assembly so that the center hole in the puck aligns under the plastic pin.

With the center hole aligned under the plastic pin, release the suspension. Assembly should sit flush up against the frame and over the plastic pin.



With the spring assembly in place raise the control enough to install lower shock bolt. Tighten bolt.  
Lower control arm.

Repeat steps on opposite side of vehicle.

Make sure all shock bolts are tight.

Install tires and torque to factory specs.

Install interior side panels.

Installation is complete.



Strutmasters is a company founded in 1999 that specializes in Air to Non-Air Suspension Conversion kits and suspension components, Strutmasters has become an industry leader in the world of suspension. What began as a personal project to repair a family's only vehicle, Strutmasters has grown into a nationwide provider of suspension solutions and has truly earned the title "The Suspension Experts®".



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