

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.

Disclaimer:

Even though every attempt is made to ensure this information is complete and accurate, it is impossible to account for all possible circumstances or situations. Please consult with a qualified auto technician before attempting to perform any work you are not qualified to do. Automobiles can be hazardous to work on; be sure to take all necessary safety precautions. Failure to do so may result in property damage or personal injury. Certain motor vehicle standards and performance requirements may apply to your motor vehicle (such as Federal Motor Vehicle Safety Standards by the National Highway Traffic Safety Administration). Be sure that your work is performed in accordance with such standards and that you do not disable any motor vehicle safety feature.

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.

Installation Instructions

Range Rover

4-Wheel Kit 2003 - 2012

Parts included in this kit

- (4) Mounts
- (2) #26 Coil Springs
- (2) Coil over struts



Tools needed for installation

- Metric socket set
- Floor jack
- Jack stands
- Metric wrenches
- Screwdrivers (Phillips and flat head)
- Wire cutter/stripper/crimping tool
- Level work surface
- Needle nose pliers or vise grips

Disclaimer:

Even though every attempt is made to ensure this information is complete and accurate, it is impossible to account for all possible circumstances or situations. Please consult with a qualified auto technician before attempting to perform any work you are not qualified to do. Automobiles can be hazardous to work on; be sure to take all necessary safety precautions. Failure to do so may result in property damage or personal injury. Certain motor vehicle standards and performance requirements may apply to your motor vehicle (such as Federal Motor Vehicle Safety Standards by the National Highway Traffic Safety Administration). Be sure that your work is performed in accordance with such standards and that you do not disable any motor vehicle safety feature.

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.

Range Rover 2003 – 2012

Rear Kit Installation Instructions

Read instructions carefully before attempting installation.

Always use extreme caution when lifting the vehicle (Refer to shop manual for lifting instructions)

Rear Removal Instructions

1. Begin by removing both rear wheels.
2. The rear air suspension valve block is located in the passenger wheel well, removal of the inner fender well is necessary. (See Figure 1)

Fig. 1



3. With the wheel well removed, locate the valve block and again drain the air from the air springs by loosening the yellow and black air lines.
4. With all of the air evacuated from the air springs, remove the lower air spring retention screw from the bottom control arm. (See Figure 2)

Fig. 2



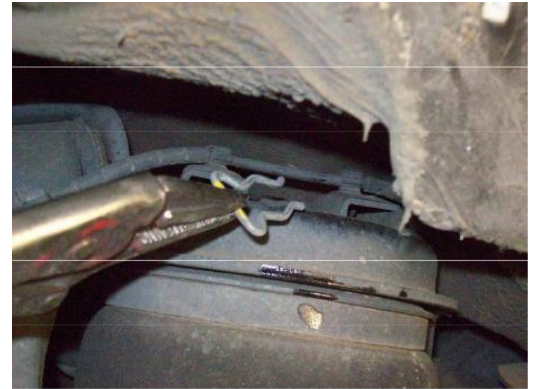
Disclaimer:

Even though every attempt is made to ensure this information is complete and accurate, it is impossible to account for all possible circumstances or situations. Please consult with a qualified auto technician before attempting to perform any work you are not qualified to do. Automobiles can be hazardous to work on; be sure to take all necessary safety precautions. Failure to do so may result in property damage or personal injury. Certain motor vehicle standards and performance requirements may apply to your motor vehicle (such as Federal Motor Vehicle Safety Standards by the National Highway Traffic Safety Administration). Be sure that your work is performed in accordance with such standards and that you do not disable any motor vehicle safety feature.

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.

5. Using a pick or similar tool, remove the clip holding the top of the air spring onto the frame. (See Figure 3)

Fig. 3



6. After both upper and lower retention fasteners are removed pull the air spring loose and disconnect the airline. (See Figure 4)

Fig. 4



7. The rear air spring removed from the vehicle is shown in Figure 5

Fig. 5



8. To install the coil springs first remove the lower shock bolt. (See Figure 6)

Fig. 6



Disclaimer:

Even though every attempt is made to ensure this information is complete and accurate, it is impossible to account for all possible circumstances or situations. Please consult with a qualified auto technician before attempting to perform any work you are not qualified to do. Automobiles can be hazardous to work on; be sure to take all necessary safety precautions. Failure to do so may result in property damage or personal injury. Certain motor vehicle standards and performance requirements may apply to your motor vehicle (such as Federal Motor Vehicle Safety Standards by the National Highway Traffic Safety Administration). Be sure that your work is performed in accordance with such standards and that you do not disable any motor vehicle safety feature.

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.

9. Loosen and remove the height sensor pivot point on the lower control arm.

10. Loosen and remove the sway bar end link using a wrench to keep the ball joint from spinning. (See Figure 7)

Fig. 7



11. Loosen and remove the spindle to lower control arm bolt to free the lower control arm. (See Figure 8)

Fig. 8



12. Loosen but DO NOT remove the two rear bolts holding the control arm. Loosening them will allow the control arm to move more freely. (See Figure 9)

Fig. 9



13. The lower control arm should now move freely without binding.

Disclaimer:

Even though every attempt is made to ensure this information is complete and accurate, it is impossible to account for all possible circumstances or situations. Please consult with a qualified auto technician before attempting to perform any work you are not qualified to do. Automobiles can be hazardous to work on; be sure to take all necessary safety precautions. Failure to do so may result in property damage or personal injury. Certain motor vehicle standards and performance requirements may apply to your motor vehicle (such as Federal Motor Vehicle Safety Standards by the National Highway Traffic Safety Administration). Be sure that your work is performed in accordance with such standards and that you do not disable any motor vehicle safety feature.

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.

Rear Conversion Installation

1. Install the lower spring seat into the lower mounting using the supplied bolts. (See Figure 1)

Fig. 1



2. Using the supplied bolts and fender washer, install the upper spring seat into upper spring perch through the hole in the center. (See Figure 2)

Fig. 2



3. While pressing down on the control arm, slide the bottom of the spring over the lower seat. (See Figure 3)

Fig. 3



Disclaimer:

Even though every attempt is made to ensure this information is complete and accurate, it is impossible to account for all possible circumstances or situations. Please consult with a qualified auto technician before attempting to perform any work you are not qualified to do. Automobiles can be hazardous to work on; be sure to take all necessary safety precautions. Failure to do so may result in property damage or personal injury. Certain motor vehicle standards and performance requirements may apply to your motor vehicle (such as Federal Motor Vehicle Safety Standards by the National Highway Traffic Safety Administration). Be sure that your work is performed in accordance with such standards and that you do not disable any motor vehicle safety feature.

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.

- 4. Using a floor jack, raise the lower control arm to realign with the spindle (be sure the spring is securely seated). Reinstall the lower control arm to spindle bolt followed by the remaining suspension fasteners. (See Figures 4 – 5)**

Fig. 4



Fig. 5



Read instructions carefully before attempting installation, if you have problems during the installation call our technical support line.

Always use extreme caution when lifting the vehicle

Disclaimer:

Even though every attempt is made to ensure this information is complete and accurate, it is impossible to account for all possible circumstances or situations. Please consult with a qualified auto technician before attempting to perform any work you are not qualified to do. Automobiles can be hazardous to work on; be sure to take all necessary safety precautions. Failure to do so may result in property damage or personal injury. Certain motor vehicle standards and performance requirements may apply to your motor vehicle (such as Federal Motor Vehicle Safety Standards by the National Highway Traffic Safety Administration). Be sure that your work is performed in accordance with such standards and that you do not disable any motor vehicle safety feature.

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.

Front Removal Instructions

1. To release the air pressure from the front strut you remove the passenger side front wheel well. (See Figure 1)

Fig. 1



2. With the wheel well removed, locate the front valve block located to the rear of the wheel well. (See Figure 2)

Fig. 2



3. Slowly release the air pressure from the front struts by loosening the yellow air lines. (See Figure 3)

Fig. 3



4. Remove the brake hose and ABS sensor wire from the retention bracket. (See Figure 4)

Fig. 4



Disclaimer:

Even though every attempt is made to ensure this information is complete and accurate, it is impossible to account for all possible circumstances or situations. Please consult with a qualified auto technician before attempting to perform any work you are not qualified to do. Automobiles can be hazardous to work on; be sure to take all necessary safety precautions. Failure to do so may result in property damage or personal injury. Certain motor vehicle standards and performance requirements may apply to your motor vehicle (such as Federal Motor Vehicle Safety Standards by the National Highway Traffic Safety Administration). Be sure that your work is performed in accordance with such standards and that you do not disable any motor vehicle safety feature.

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.

5. **Disconnect the sway bar link by removing the nut holding the ball joint to the strut. It may be necessary to keep the ball joint from spinning by placing a wrench on the two flats of the ball joint. (See Figure 5)**

Fig. 5



6. **Remove the two large bolts that secure the strut to the spindle. Pull the spindle outward while pushing the strut to disengage them. (See Figure 6)**

Fig. 6



7. **Look under the hood and locate the three nuts on the strut mount that hold the strut into place and remove. (See Figure 7)**

Fig. 7

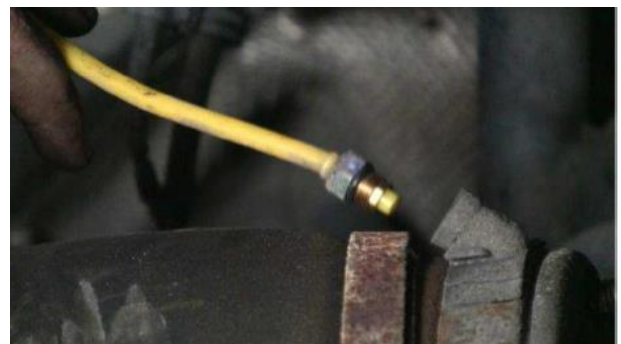


8. **With the strut removed it is possible to access to the hose connection. Remove the fitting to release the hose. (See Figures 8 - 9)**

Fig. 8



Fig. 9



Disclaimer:

Even though every attempt is made to ensure this information is complete and accurate, it is impossible to account for all possible circumstances or situations. Please consult with a qualified auto technician before attempting to perform any work you are not qualified to do. Automobiles can be hazardous to work on; be sure to take all necessary safety precautions. Failure to do so may result in property damage or personal injury. Certain motor vehicle standards and performance requirements may apply to your motor vehicle (such as Federal Motor Vehicle Safety Standards by the National Highway Traffic Safety Administration). Be sure that your work is performed in accordance with such standards and that you do not disable any motor vehicle safety feature.

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.

Front Conversion Installation

1. Position the coil over strut into the mounting location while aligning the three studs with the strut tower and fasten loosely with the three nuts. (See Figures 1 - 2)

Fig. 1

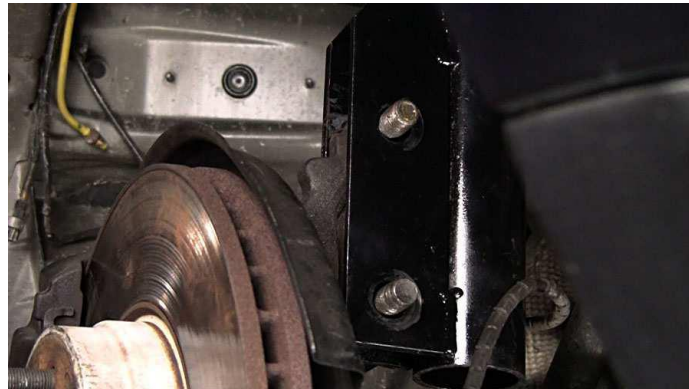


Fig. 2



2. Connect the lower strut mounting bracket to the spindle, then replace the bolts and tighten. (See Figure 3)

Fig. 3



3. Connect the sway bar link to the strut bracket and tighten bolt. (See Figures 4 - 5)

Fig. 4



Fig. 5



Disclaimer:

Even though every attempt is made to ensure this information is complete and accurate, it is impossible to account for all possible circumstances or situations. Please consult with a qualified auto technician before attempting to perform any work you are not qualified to do. Automobiles can be hazardous to work on; be sure to take all necessary safety precautions. Failure to do so may result in property damage or personal injury. Certain motor vehicle standards and performance requirements may apply to your motor vehicle (such as Federal Motor Vehicle Safety Standards by the National Highway Traffic Safety Administration). Be sure that your work is performed in accordance with such standards and that you do not disable any motor vehicle safety feature.

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.

4. Reattach the brake hose and sensor wire to the bracket onto the strut. (See Figure 6)

Fig. 6



5. Reinstall the inner wheel well liner, then, replace wheel and tighten.

6. After completing installation of both sides, lower vehicle to the ground and tighten upper strut mount nuts under hood. (See Figure 7)

Fig. 7



Always use extreme caution when lifting the vehicle

Disclaimer:

Even though every attempt is made to ensure this information is complete and accurate, it is impossible to account for all possible circumstances or situations. Please consult with a qualified auto technician before attempting to perform any work you are not qualified to do. Automobiles can be hazardous to work on; be sure to take all necessary safety precautions. Failure to do so may result in property damage or personal injury. Certain motor vehicle standards and performance requirements may apply to your motor vehicle (such as Federal Motor Vehicle Safety Standards by the National Highway Traffic Safety Administration). Be sure that your work is performed in accordance with such standards and that you do not disable any motor vehicle safety feature.

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.

Light Disarm Instructions ----- 2006 – 2008

2003- 2005 may require an electronic module to disarm (Instructions Included below)

1. The passenger compartment fuse box is fitted behind the lower glove box. To access the fuses: Open the glove box, then release the left-hand support stay as shown. This allows the glove box to open to the service position.
2. Remove the fuse box cover by pressing down on the catches (1) while pulling the cover rearwards. The solid arrow in the illustration indicates the location of the fuse removal tool. (See Figure 1)

Fig. 1

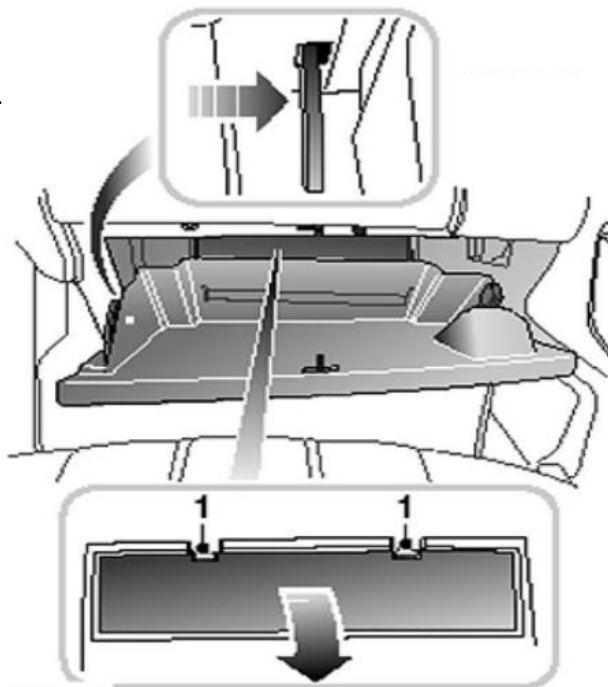
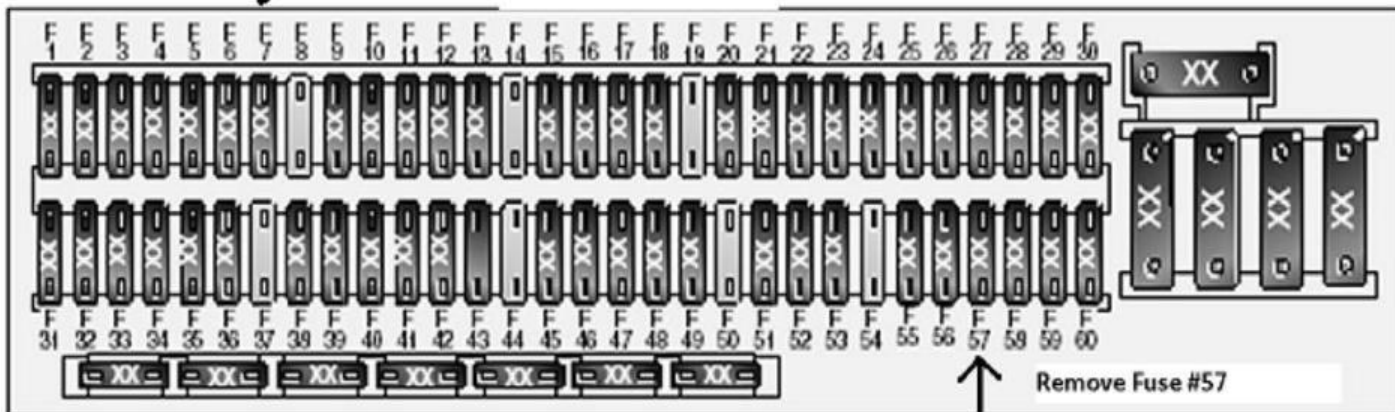


Fig. 2



Remove Fuse #7 2006 and up only



3. Locate and remove Fuse #7(2006-2008) and Fuse # 57 (all years) as shown in Figure 2.
4. Reinstall fuse cover and glove box assembly.

At initial ignition - 1 chime and the "Suspension Fault" displays...after that and during the driving period there should be no other audible or visible alarms.

Disclaimer:

Even though every attempt is made to ensure this information is complete and accurate, it is impossible to account for all possible circumstances or situations. Please consult with a qualified auto technician before attempting to perform any work you are not qualified to do. Automobiles can be hazardous to work on; be sure to take all necessary safety precautions. Failure to do so may result in property damage or personal injury. Certain motor vehicle standards and performance requirements may apply to your motor vehicle (such as Federal Motor Vehicle Safety Standards by the National Highway Traffic Safety Administration). Be sure that your work is performed in accordance with such standards and that you do not disable any motor vehicle safety feature.

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.

Light Out Module Installation

EASC WMR stands for Electronic Air Suspension Controller Warning Message Remover. It's been designed to remove the "Suspension Inactive" message on Range Rover (MKIII, L322) 2002 to 2005 that have been converted to coil springs.

Tools required:

- Plastic beverage straw.

Installation instructions

The installation is achieved by following 6 easy steps.

The kit is provided with a wire harness that connects from the unit into the clock. Here are the steps for installing the EASC Warning Message Remover.

Warning: Installation must be done with the parking brake applied and the engine not running.

Note: For vehicles equipped with self-leveling headlamps, the front right and rear right suspension height sensors are also used by the headlamp control module. They should not be removed when a coil conversion is performed. These sensors are different from the left ones; they have 6 wires connected to them. If there are only 3 wires, your vehicle is not equipped with self-leveling headlamps.

Disclaimer:

Even though every attempt is made to ensure this information is complete and accurate, it is impossible to account for all possible circumstances or situations. Please consult with a qualified auto technician before attempting to perform any work you are not qualified to do. Automobiles can be hazardous to work on; be sure to take all necessary safety precautions. Failure to do so may result in property damage or personal injury. Certain motor vehicle standards and performance requirements may apply to your motor vehicle (such as Federal Motor Vehicle Safety Standards by the National Highway Traffic Safety Administration). Be sure that your work is performed in accordance with such standards and that you do not disable any motor vehicle safety feature.

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.

Step 1

- Remove the bottom half of the center console containing the clock using the straw. The top may also be removed. You can move the transmission selector for more space.



- Gently pull on the console on both sides.



Disclaimer:

Even though every attempt is made to ensure this information is complete and accurate, it is impossible to account for all possible circumstances or situations. Please consult with a qualified auto technician before attempting to perform any work you are not qualified to do. Automobiles can be hazardous to work on; be sure to take all necessary safety precautions. Failure to do so may result in property damage or personal injury. Certain motor vehicle standards and performance requirements may apply to your motor vehicle (such as Federal Motor Vehicle Safety Standards by the National Highway Traffic Safety Administration). Be sure that your work is performed in accordance with such standards and that you do not disable any motor vehicle safety feature.

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.

Step 2

- The clock wiring harness is now exposed.



- Disconnect the clock's connector by pulling on it. There is no tab to be pushed, the lock will disengage itself.

Disclaimer:

Even though every attempt is made to ensure this information is complete and accurate, it is impossible to account for all possible circumstances or situations. Please consult with a qualified auto technician before attempting to perform any work you are not qualified to do. Automobiles can be hazardous to work on; be sure to take all necessary safety precautions. Failure to do so may result in property damage or personal injury. Certain motor vehicle standards and performance requirements may apply to your motor vehicle (such as Federal Motor Vehicle Safety Standards by the National Highway Traffic Safety Administration). Be sure that your work is performed in accordance with such standards and that you do not disable any motor vehicle safety feature.

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.

Step 3

- Using the vehicle's wire harness previously connected to the clock, connect the EASC WMR to the vehicle.



- Connect the EASC WMR to the clock using the supplied wire harness.



Disclaimer:

Even though every attempt is made to ensure this information is complete and accurate, it is impossible to account for all possible circumstances or situations. Please consult with a qualified auto technician before attempting to perform any work you are not qualified to do. Automobiles can be hazardous to work on; be sure to take all necessary safety precautions. Failure to do so may result in property damage or personal injury. Certain motor vehicle standards and performance requirements may apply to your motor vehicle (such as Federal Motor Vehicle Safety Standards by the National Highway Traffic Safety Administration). Be sure that your work is performed in accordance with such standards and that you do not disable any motor vehicle safety feature.

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.

Step 4

- If you want, you can now fix the unit using electrical tape or 2-way tape. If not, simply place it behind the center console.

Step 5: Finalizing and testing

- If your air suspension control module is still present in the vehicle, remove fuse **57** in passenger fuse box located in glove box. You can also remove the ECU to sell it.



Step 6

- Start the engine, the suspension inactive message should not appear on the information center.
- Reverse the removal procedure above to reassemble the center console.

Dorman provides the best in performance suspension parts equipment.