



4X4AirSeals

Air Suspension Products

*Bmw 5,7, F07,F11e.t.c & Audi models
2011> late style wabco air suspension compressor repair*

Technical Note :1a (Sticking exhaust electrical solenoid)

picture 1

picture 2

picture 3



Some times on occasion the condensation passing through the air dryer can corrode the solenoid internal valve particularly if the air dryer filtration granules have become fully absorbed with water or dust as entered the valve itself, below is a procedure we have found can restore the functionality of this valve .

1. Locate and remove the 2 off torx screws securing solenoid valve (picture 1)
2. Remove carefully by hand (picture 2) the solenoid valve from its location taking care to visually inspect that the small oring is located in the bottom of the air dryer chamber solenoid housing(picture 3 in blue) or it may on occasion be located on the end of the solenoid core itself .

Note

No need to disassemble the solenoid any further generally, At this stage you need to test whether the solenoid clicks when you apply a 12 volt dc electrical current to the 2 small spade terminals in the solenoid housing itself ! taking great care not to allow the positive and negative terminals to touch each other when carrying out this test as you may short out the solenoid (we recommend an electrical maintenance engineer to carry out this test if you are not confident in this field),it doesn't matter which terminals of the solenoid you apply the positive and negative to as long as you don't allow them to touch each other in any shape or form, you should physically feel a small movement pulse in the core when you apply the current ! if no pulse is apparent apply some wd 40 or similar down the centre core of the solenoid (picture 3 in yellow) and gently tap the unit on the bench to try and free the small plunger inside the core ! keep repeating this procedure until you feel the wd40 as penetrated the core plunger , carry out the electrical test by re applying 12 volts dc to the terminals until you can physically feel a pulse movement ! if you only see slight sparking to the terminals without feeling the pulse movement of the tiny plunger inside the core then the core plunger is still stuck ! keep repeating procedure until desired effect is achieved , re assemble the complete solenoid in the main housing in reverse order once you are happy with the results of the solenoid test itself.

thank you 4x4Airseals Technical