

Clutch less variable displacement compressor test procedure for reported Non pumping compressors.

7/10/2010

Section 1

1. Connect CLT1 to control valve and battery feed
2. Connect Multi meter to valve and adjust stroke of valve
3. Should OC or OL light come on valve faulty
4. Disconnect wire from valve you should hear a "click"
5. Measure voltage across the valve which should be around 10.5volts (check against new valve if in doubt)
6. If all the above read OK then valve is operating correctly. Now proceed to section 2

Possible electrical disturbances of the electronic single solenoid valve



Led "OC" indicate:

- Poor control valve connection
- control valve complete interruption
- control valve with short-circuit (smaller than 3 ohm)

Led "OL" indicate:

- Too high power consumption of the valve

Section 2

1. Drain compressor oil and measure (amount drained should be between 25-50ml)
2. Strip front plate from compressor (if flat face type clockwise thread with impact wrench will pull plate from pulley)
3. Remove front housing and rear housing
4. Twist piston in turn to ensure that each turn smoothly
5. If any pistons are not moving smoothly this is an indication of debris or excessive wear on the piston/bore which in turn will result in the piston not holding pressure so giving the effect of a compressor that is not pumping on the vehicle