

DEM PUMP TEST PROCEDURE

Pump Testing Procedure for Active on-Demand Coupling (AOC)



STOP! DO NOT CONNECT THIS DEM TO THE VEHICLE!

Please read and follow the instructions below. Failure to do so will result in **PERMANENT damage** to your newly rebuilt DEM. It is absolutely crucial that the pump is tested prior to re-installing the DEM back into the vehicle.

In your Volvo the DEM directly controls the AOC pump. In the event that the pump seized-up, shorted or its operation is obstructed, your newly rebuilt DEM will be instantly and permanently damaged.

We recommend that you replace the AOC pump (Volvo PN. 30783079), AOC Filter (Volvo PN. 30787687) and AOC Fluid (Volvo PN.31325136 1L Bottle) Total AOC Fluid capacity is 650 ml. Pump and filter is also available at XeMODeX PN. VO.1040.30783079.20.N

Shorted or overloaded pumps will cause a very specific damage inside the DEM that is unique and cannot be inflicted by the DEM itself. Your warranty claim will be denied if that damage is present.



DEM Pump and Filter

Should you wish not to replace the above parts you must at least test the pump to ensure it is working correctly.

FOLLOW THE STEPS BELOW:

- 1 Bolt the repaired DEM unit back on to the AOC Coupling. **DO NOT** plug in connector "A" or "B" back to the DEM.
- 2 Locate 2 pin pig-tail plug. One end plugs in to connector "B" on the DEM, the other is permanently attached to the pump.
- 3 Apply +12V to pin 1 at the connector "B" and the ground to pin 2 (See fig. 2) at the connector "B". Listen to the pump, it should operate quietly with a gentle hum. Bad pump will either not operate at all or it will be very slow. Watch for excessive arcing when applying the power. Replace the pump if any of the symptoms above are present.
- 4 When the pump's proper operation has been verified proceed with reconnecting both plugs back to the DEM.

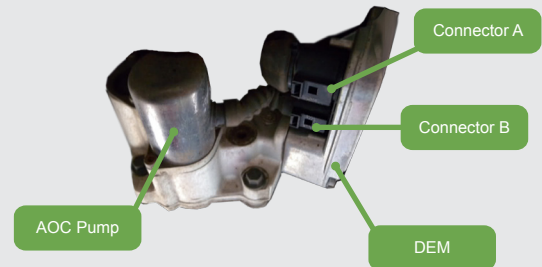


Fig. 1

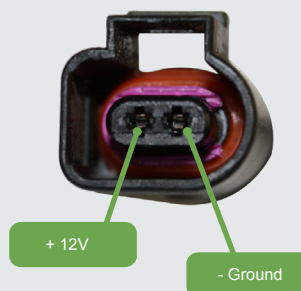


Fig. 2

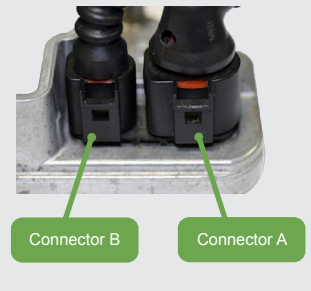


Fig. 3