

DEM FLOW CHART

Differential Electronic Module Diagnostic Flow Chart
2005-2010 VOLVO S60AWD, XC60, XC70 and XC90

In 2005 and newer Volvos the Rear Electronic Module (REM) can shut down the communication with the Differential Electronic Module (DEM). As a result the DEM will not communicate on the CAN-Bus network. This chart was designed to assist you with troubleshooting procedures for this specific problem.

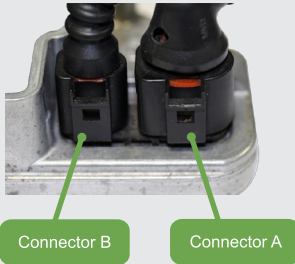


Fig. 2 Differential Electronic Module

**START
HERE**

Connect vehicle to VIDA or equivalent scan tool.
Can the scan tool communicate with the DEM?

Refer to the
manufacture's specific
code troubleshooting
procedures.

Start the car. Using a test light
check if +12V is present at the
fuse #23 located on the Rear
Electronic Module (see Fig.1).
Do you have a battery voltage
at the fuse?

Internal fault in the Rear Electronic
Module, unit does not supply voltage to fuse #23. This
fuse is a dedicated power supply for the DEM.
Remove the REM and send it to us for repair.

Unplug connector "A"
from the DEM.
(See Fig. 2)

Switch ignition on and check
voltage across pins 1 & 2.
(See Fig. 3) Do you have 12V
between pins 1&2?

Defective Differential
Electronic Module (DEM)
Remove the DEM and send
it to us for repair.

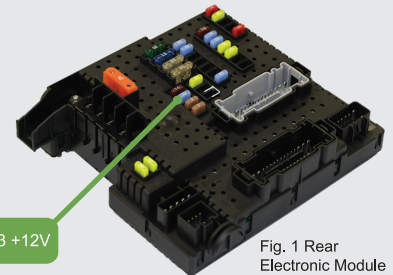


Fig. 1 Rear Electronic Module

Check if the fuse #23 if its not
blown and verify if it is powered
up. Was the fuse blown?

Apply +12V and ground to pins
at the connector "B". (Fig.4)
Does the pump operate?

Open circuit in wiring
harness between REM
and DEM.

Replace the Haldex
Feed Pump.

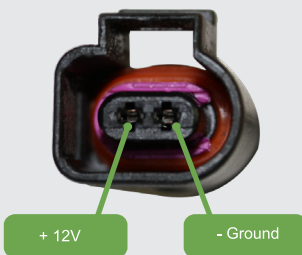


Fig. 4 Connector B

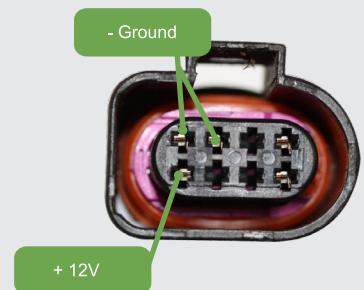


Fig. 3 Connector A