

Injectronics

TECHNICAL BULLETIN

VOLVO - 760

#T0023

Make: Volvo

Model: 760

Subject: Idle speed controller

The 1984 Volvo 760 implements an idle speed control unit (mounted under the dash on the driver's side) to open and shut a throttle bypass motor/valve mounted on the engine. Idle speed is regulated according to engine temperature and auxiliary loads, such as air conditioning.

The unit has one six pin connector and one five pin connector and it is very important not to confuse the two connectors, if they are interchanged it will cause an immediate failure of the unit.

To identify correct orientation check for a blue dot on the controller, this will coincide with another blue dot, on one of the other connectors. Another way to ensure that they are connected correctly is to ensure that the five pin connector mates with the plug that has no wire populated in the bottom right hand corner (pin number 6). See figure 1.

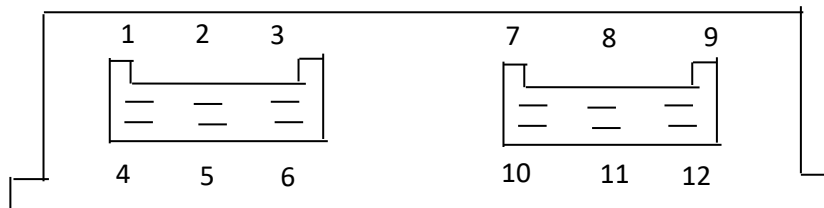


Figure 1. Connectors on the Volvo idle speed controller

Testing the unit for correct supply and various other inputs should be done before changing the idle speed controller. For a summary of the connections see figure 2.

| Pin No. | Description | Pin No. | Description |
|---------|------------------------|---------|----------------------------|
| 1 | + 12 Volt supply | 7 | Input from Climate Control |
| 2 | Ground (0 volts) | 8 | Throttle Position Switch |
| 3 | Idle Speed Motor | 9 | Coolant Temperature Switch |
| 4 | + 12 Volt output (ISM) | 10 | Test Point |
| 5 | Idle Speed Motor | 11 | N/C |
| 6 | N/C | 12 | Coil Negative (Trigger) |

Figure 2. Connection summary

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