



Opel

Astra G, model year 1998–2001

Vectra-B, model year 1998–2001

Zafira, model year 1999–2001

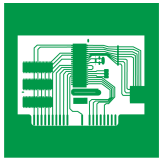
With engine X18XE1

Engine misfires, fault code P0100 and/or P0110 stored.

If there are complaints with these vehicles that the engine misfires and that fault codes P0100 and/or P0110 are stored in the fault memory, one possible cause is a faulty earth connection in the engine control unit. In order to eliminate the fault, the earth connections from the engine control unit to the air mass sensor and coolant temperature sensor must be changed and additional earth cables must be installed.

To do this, proceed as follows:

- Disconnect the battery.
- Dismantle the upper engine cover.
- Open the cable duct (Remove the hoses on the valve cover, unclip the cable-duct cover, Fig. 1).
- Unlock the plug of the engine control unit and disconnect the plug-connection (The engine control unit is screwed onto the transmission side of the engine).
- Identify the earth cable of the air mass sensor (yellow cable) and of the coolant temperature sensor (brown cable) in the cable duct (Fig. 2).
- Check both cables for continuity to the plug of the engine control unit: Air mass sensor (yellow cable) to pin 48, coolant temperature sensor (brown cable) to pin 7.
- Cut both cables within the cable duct in an offset



manner.

- Lay an additional earth cable in the cable duct, in the direction of the engine control unit. Push thermal contraction hose onto the end of the cut-through cable that goes in the direction of the sensor.
- A Y-connection must be made to the ends of the cut-through brown cable (Fig. 3). In order to guarantee a secure contact, the connection should be soldered.
- After this, push thermal contraction hose over the soldered joint and shrink together (Fig. 4).
- A connection to the yellow cable must be made in the same way.
- Cut the additional earth cables to a suitable length and fit a ring eye (\varnothing 8 mm). The cables must be long enough to reach the retaining screws, below the accelerator cable.
- Remove the screws and secure the eyes of the additional earth cables using the screws.
- Cover the additional earth cables outside the cable duct with a protection tube.
- Close the cable duct and connect the hose connections on the valve cover.



Fig. 1



Fig. 2



Fig. 3

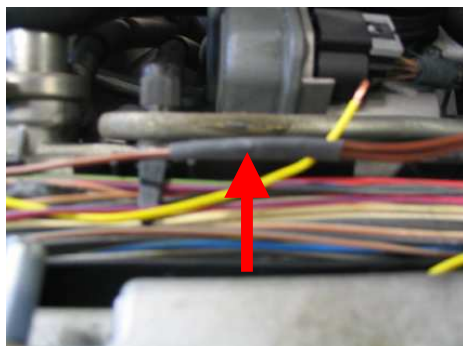


Fig. 4