

Exhaust Gas Recirculation Valve, Z22SE (MY 2002 and MY2003)

Objective:

Checking the electrical and mechanical functions of the exhaust gas recirculation valve.

Measurement:

Plot of voltage at the control input of the exhaust gas recirculation valve as well as the voltage of the feedback signal.

Preparation:

Switch off the engine and ignition.

Connections:

INPUT A	COM/TRIGGER	INPUT B
Connect the red measurement lead to pin E of the plug connector of the exhaust gas recirculation valve. Connect the black ground lead to pin A.		Connect the grey measurement lead to pin B of the plug connector of the exhaust gas recirculation valve.

The exhaust gas recirculation valve is only being actuated under certain circumstances (load, engine speed, etc.). The Reference curve shows the correlation between the signal of the valve and the feedback signal while driving the car.

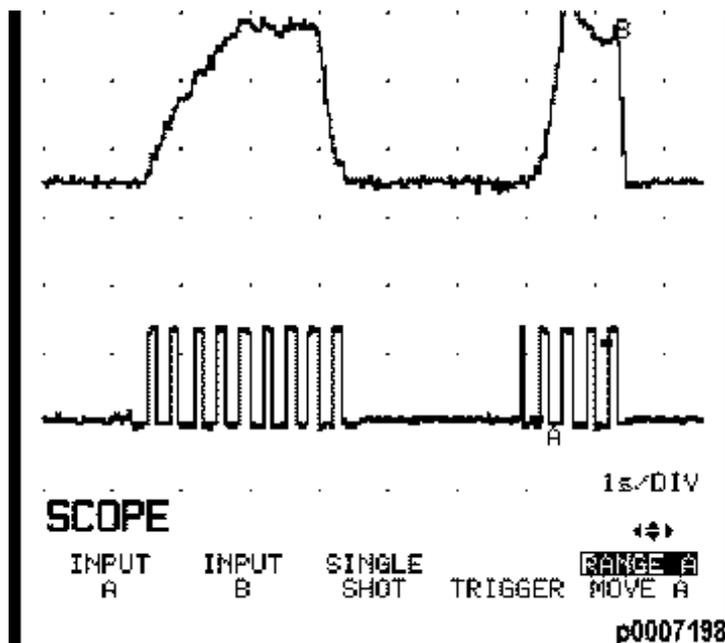
Note: For several engine management systems it is possible to activate the EGR valve with an actuator test in the Tech 2.

Procedure Tech 31:

1. Download Reference curve.
2. For this test it is necessary to drive the vehicle.
3. Start the engine and drive the vehicle slowly in first gear (Automatic Transmission in 1).
4. Alternate the engine speed between 1500 and 2500 revs/min in partial load to allow the Exhaust Gas Recirculation valve to be actuated.

Reference Curve:





Procedure Tech 32:

1. Download Setup file (the Tech 32 uses only Setup files, no reference curves).
2. For this test it is necessary to drive the vehicle.
3. Start the engine and drive the vehicle slowly in first gear (Automatic Transmission in 1).
4. Alternate the engine speed between 1500 and 2500 revs/min in partial load to allow the Exhaust Gas Recirculation valve to be actuated.

Setup File: 

Reference Curve:

