

EXHAUST GAS RECIRCULATION (EGR)

EGR Backpressure Transducer (EGR-BPT) & EGR Canister Backpressure Transducer (EGRC-BPT) Valves

Plug one port of EGR-BPT (EGRC-BPT) valve and apply vacuum to other port. See **Fig. 9**. Vacuum should NOT hold. Apply light pressure to bottom port (DO NOT apply more pressure than is necessary to cause vacuum to hold). If vacuum does not hold with pressure applied, replace EGR-BPT (EGRC-BPT) valve.

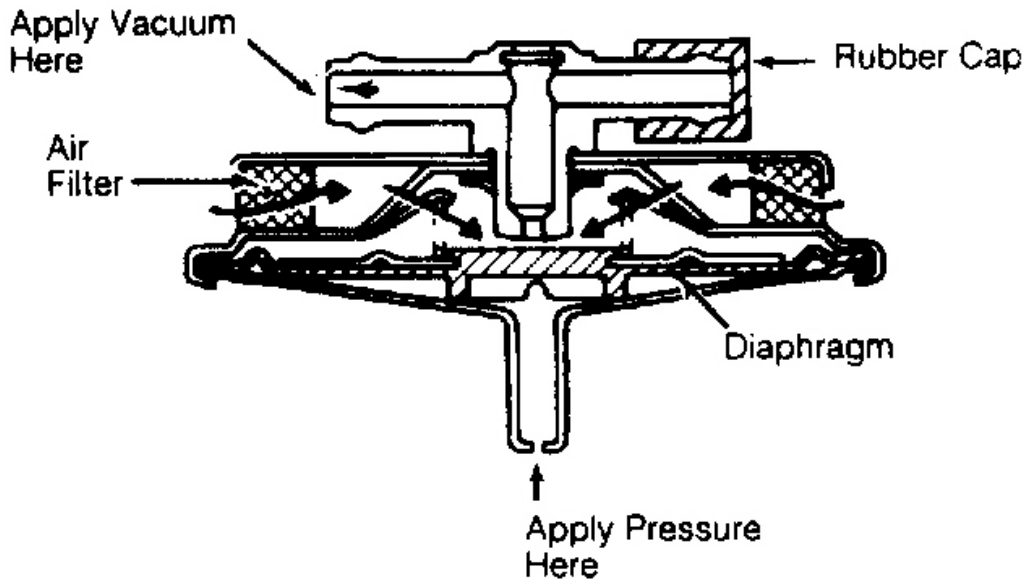


Fig. 9: Cross-Section View Of EGR Backpressure Transducer (EGR-BPT)

Courtesy of NISSAN MOTOR CO., U.S.A.

EGR Control Solenoid

1. Disconnect vacuum lines and electrical connector from solenoid. Remove solenoid. Using hand-held vacuum pump, apply vacuum to port "A" of solenoid. See **Fig. 10**. Vacuum should now be available at port "C", but not at port "B".
2. Apply battery voltage across solenoid connector terminals. Apply vacuum to port "A" of solenoid. Vacuum should now be available at port "B", but not at port "C". Replace solenoid if it does not operate as specified.

EGR & Canister Control Solenoid

1. To test solenoid, disconnect vacuum lines and electrical connector from solenoid. Remove solenoid. Using hand-held vacuum pump, apply vacuum to port "A" of solenoid. See **Fig. 10**. Vacuum should now

be available at port "C", but not at port "B".

- Apply battery voltage across solenoid connector terminals. Apply vacuum to port "A" of solenoid. Vacuum should now be available at port "B", but not at port "C". Replace solenoid if it does not operate as specified.

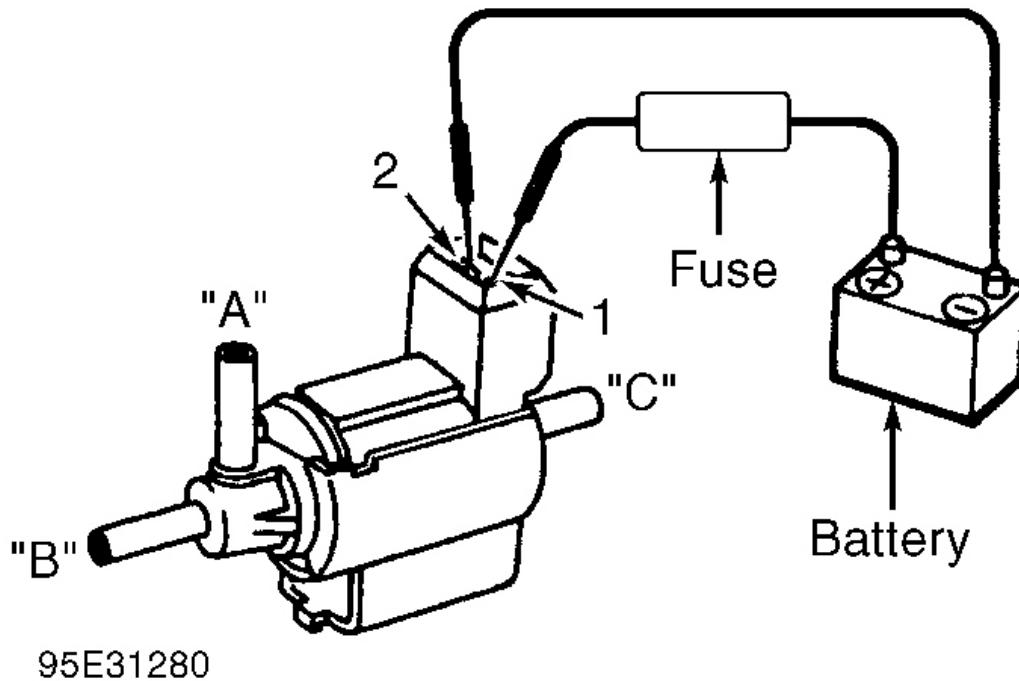


Fig. 10: Typical Control Solenoid

Courtesy of NISSAN MOTOR CO., U.S.A.

EGR Function

Faults in EGR function circuit may set DTC 32. To test function, see DTC 32 diagnostic procedures in the TESTS W/CODES article.

EGRC-BPT Valve Function

- To test overall function of system, go to next step. To test EGRC-BPT valve, see EGR BACKPRESSURE TRANSDUCER (EGR-BPT) & EGR CANISTER BACKPRESSURE TRANSDUCER (EGRC-BPT) VALVES (above).
- Disconnect vacuum hose to fuel pressure regulator (on intake manifold). Disconnect vacuum hose to EGR and canister control solenoid at EGRC-BPT valve.
- Start engine. Check for EGR valve lifting with engine speed less than 1500 RPM under no load. EGR

valve should remain closed. Check for EGR valve lifting with engine speed at 2000-4000 RPM under no load. EGR valve should open, then close without sticking when engine is returned to idle.

EGR Valve

Using a hand-held vacuum pump, apply vacuum to EGR valve diaphragm. Replace EGR valve if pintle does not open