

1974-79 EXHAUST EMISSION SYSTEMS

Triumph Exhaust Gas Recirculation

All Models

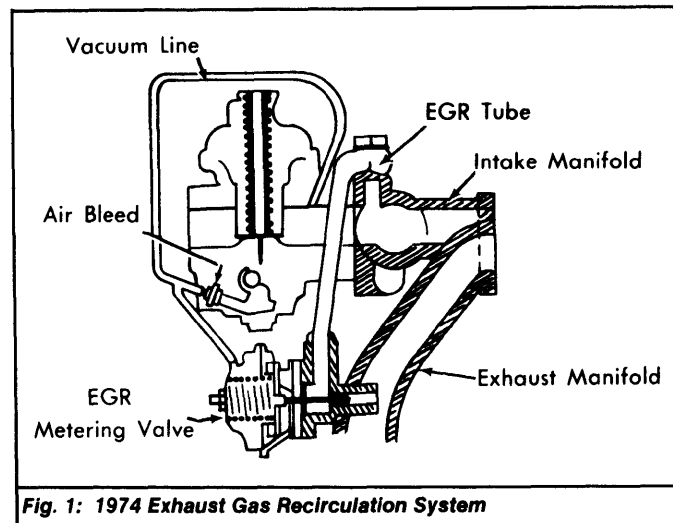
DESCRIPTION

On 1974 models, exhaust gases are drawn from exhaust manifold through EGR valve and routed to intake manifold. The EGR system is controlled by metering valve and a choke operated cut-out system, which stops exhaust gas recirculation by opening an air bleed in vacuum control line when choke is on.

All 1975-79 models use a vacuum operated EGR valve to control exhaust gas flow. In addition, a fuel trap keeps liquid fuel vapor from entering EGR valve. An EGR maintenance reminder light on dash indicates when service is required.

OPERATION

This system reduces oxides of nitrogen (NO_x) emissions by recirculating a controlled amount of exhaust gases back into the engine. The EGR valve is mounted on exhaust manifold and controls flow of exhaust gases. On 1975-79 models, the vacuum signal which controls the EGR valve is taken from throttle bore, allowing for exhaust gas recirculation between idle speed and full throttle. A fuel trap keeps liquid fuel vapor from entering EGR valve.



TESTING

Check all vacuum hoses for damage and proper routing. With engine at normal operating temperature, ensure that choke valve is off. Open and close throttle several times. Valve should open and close with change in engine RPM and close when throttle is closed. Using a hand-held vacuum pump, check that valve diaphragm retains vacuum when open.

MAINTENANCE

- 1) Service EGR system every 12,500 miles, as indicated by EGR maintenance reminder light. To do so, remove EGR valve and clean base of valve with wire brush.
- 2) Hold valve diaphragm open and clean valve with spark plug cleaner at 30 second intervals until valve is clean. Remove all traces of carbon and cleaning compound with compressed air.
- 3) Examine EGR ports in exhaust manifold. If heavy carbon deposits are present, remove and clean exhaust manifold. Install EGR valve and check all vacuum hoses for damage and proper routing.
- 4) To reset EGR maintenance reminder light, locate maintenance indicator on speedometer cable (engine compartment side). Insert special key into resetting socket and turn key until percentage indicator reads zero (0).

