

# 1974-79 EXHAUST EMISSION SYSTEMS

## Triumph Air Injection System

### 1979 All Models

**NOTE:** For 1974-78 models, see **AIR INJECTION SYSTEMS** article in this section.

### DESCRIPTION

This system uses a belt-driven air pump to supply air under pressure to the exhaust manifold where it mixes with exhaust gases and causes further oxidation (burning) of the exhaust gases. The injected air from the pump passes through a one-way check valve to a single entry point in the exhaust manifold. See Fig. 1. The one-way check valve prevents the reverse flow of exhaust gases into the air pump when exhaust gas pressure exceeds air pump pressure. A relief valve, located in the air pump, is used to dump excess pump pressure at high engine speeds to prevent pump damage.

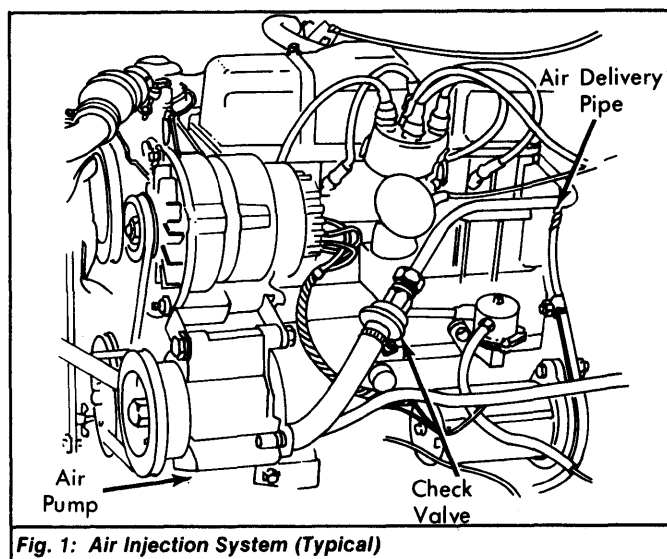


Fig. 1: Air Injection System (Typical)

## Triumph Catalytic Converters

### All Models

### DESCRIPTION

All models use this device to aid in reduction of HC and CO emissions. Catalyst units contain a ceramic material coated with a platinum based compound which acts on exhaust gases. All models have a dash warning light to indicate when converter replacement is required.

### OPERATION

A chemical reaction converts carbon monoxide (CO) and hydrocarbon (HC) emissions to carbon dioxide and water. When hot exhaust gases pass through the converter, the catalyst speeds up the conversion process and generates additional heat which also aids in the conversion.

### MAINTENANCE

#### CATALYTIC CONVERTER

Replace catalytic converter at intervals indicated by catalyst service indicator light. Reset the service interval indicator.

#### MAINTENANCE INDICATOR RESETTING

Unit(s) are mounted in engine compartment and are driven by the speedometer cable. When the appropriate servicing is completed the unit may be reset to zero by using a special key. Insert key into resetting socket and turn until percentage indicator indicates zero.

**NOTE:** Percentage indicator indicates the percentage of time to or from the required service. For example, 100% indicates servicing is required.