

2001 Chevrolet Blazer

EMISSION CONTROL VISUAL INSPECTION PROCEDURES GENERAL INFORMATION Emission Control Visual Inspection Procedures

AIR INJECTION SYSTEM (AIS)

Air Pump Injection System (AP)

The air pump is a belt-driven vane type pump, mounted to engine in combination with other accessories. The air pump itself consists of the pump housing, an inner air cavity, a rotor and a vane assembly. As the vanes turn in the housing, filtered air is drawn in through the intake port and pushed out through the exhaust port. See **Fig. 13**.

Check for missing or disconnected belt, check valve(s), diverter valve(s), air distribution manifolds, etc. Check air injection system for proper hose routing.

BLACK ARROWS - NORMAL FLOW
CROSS HATCHED ARROWS - BY-PASS CONDITION

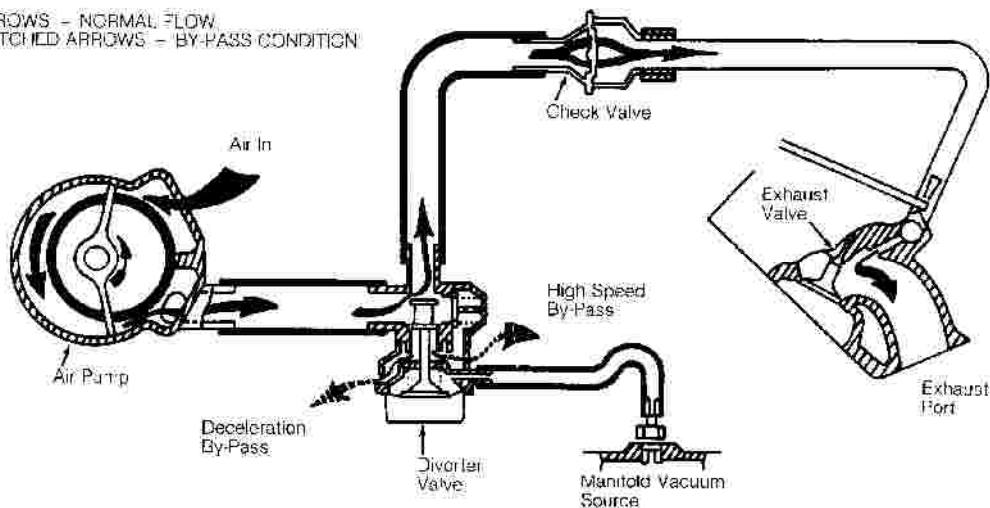


Fig. 13: Typical Air Pump Injection System
Courtesy of GENERAL MOTORS CORP.

Pulsed Secondary Air Injection (PAIR) System

PAIR eliminates the need for an air pump and most of the associated hardware. Most systems consists of air delivery pipe(s), pulse valve(s) and check valve(s). The check valve prevents exhaust gases from entering the air injection system. See **Fig. 14**.

Ensure required check valve(s), diverter valve(s), air distribution manifolds, etc., are present. Check air injection system for proper hose routing.

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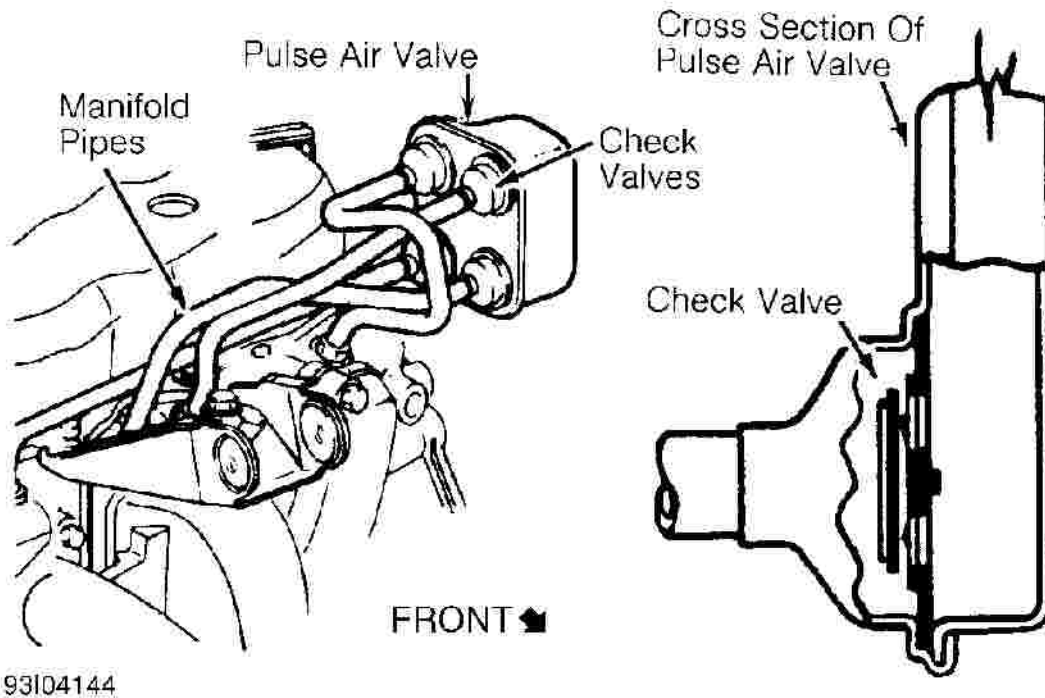


Fig. 14: Typical Pulsed Secondary Air Injection System
Courtesy of GENERAL MOTORS CORP.