

1982 Exhaust Emission Systems

CHRYSLER CORP. IMPORTS THROTTLE OPENER SYSTEM

Arrow Pickup, Challenger, Champ, Colt, Ram-50 Pickup, Sapporo

DESCRIPTION

Throttle opener system consists of a throttle opener assembly, solenoid valve, engine speed sensor and air conditioning compressor switch. Engine speed sensor is also used in air switching valve system. When this sensor detects engine speed at or below specified value, air switching system does not operate. When engine speed is above specified value, air switching system works as designed.

OPERATION

COMPRESSOR SWITCH "ON"

When engine speed sensor detects engine speed at or below specified value, solenoid valve is opened so as to transfer intake manifold vacuum to throttle opener. Throttle valve is slightly opened by throttle opener and opener lever which is freely movable on throttle valve shaft. Engine will then run at a speed resulting from setting off new throttle valve opening against compressor's load.

COMPRESSOR SWITCH "OFF"

Throttle opener system stops working and engine runs at original idling speed.

ADJUSTMENTS

THROTTLE OPENER OPERATING SPEED

1) Connect tachometer to engine and warm engine to normal operating temperature. Set engine idle speed to specifications. Turn air conditioner and accessories off. On front-wheel drive models, disconnect engine cooling fan.

2) Activate throttle opener (air conditioning "ON") and adjust throttle opener speed to operating speed RPM by turning throttle opener adjusting screw. See Fig. 1.

3) With throttle opener speed set to specification, turn air conditioner "OFF" and recheck idle speed. Normal engine idle speed should not be affected when throttle opener is not activated.

THROTTLE OPENER SPECIFICATIONS

Application	Operating Speed (RPM)
1.4L & 1.6L Engines	
Man. Trans.	800-900
Auto. Trans.	850-950
2.0L & 2.6L Engines	850-950

Fig. 1: Chrysler Corp. Imports Throttle Opener System

