

1980 Exhaust Emission Systems

CHRYSLER CORP. IMPORTS THROTTLE OPENER SYSTEM

Arrow
 Arrow Pickup
 Challenger
 Champ
 Colt
 D50 Pickup
 Sapporo

DESCRIPTION

The throttle opener system is installed on all front-wheel drive models and only on air conditioned rear-wheel drive models. The throttle opener system operates at predetermined engine speeds to open the throttle plate slightly during operation of air conditioner. On front-wheel drive models, the throttle opener is also activated when lighting system is used. System components include the throttle opener diaphragm, solenoid valve and engine speed sensor (deceleration switch).

OPERATION

The engine speed sensor sends electrical impulse to solenoid valve at predetermined speeds. The solenoid activates the throttle opener diaphragm to increase engine speed. One-way diodes are installed in solenoid wiring to prevent feedback when lighting and air conditioning are used separately (front-wheel drive models). The throttle opener is not operated when deceleration fuel cut-off system is activated.

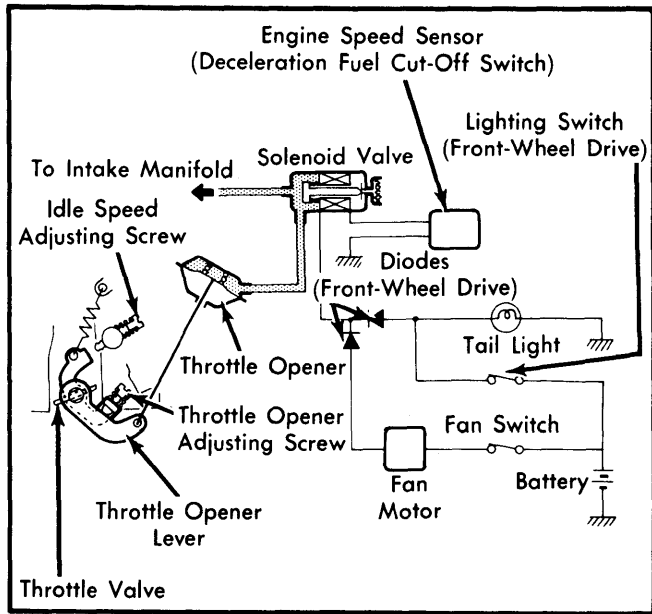


Fig. 1 Throttle Opener Schematic - (Front-Wheel Drive Models Shown - Other Models Similar)

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 specified RPM shown in table by turning throttle opener adjusting screw. See Fig. 2.
- 3) With throttle opener speed set to specifications, 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)	
	Man. Trans.	Auto. Trans.
FWD Models		
All Engines	1050-1150	1100-1200
RWD Models		
2600 cc Engine	1000-1100	1000-1100
All Others	1100-1200	1100-1200

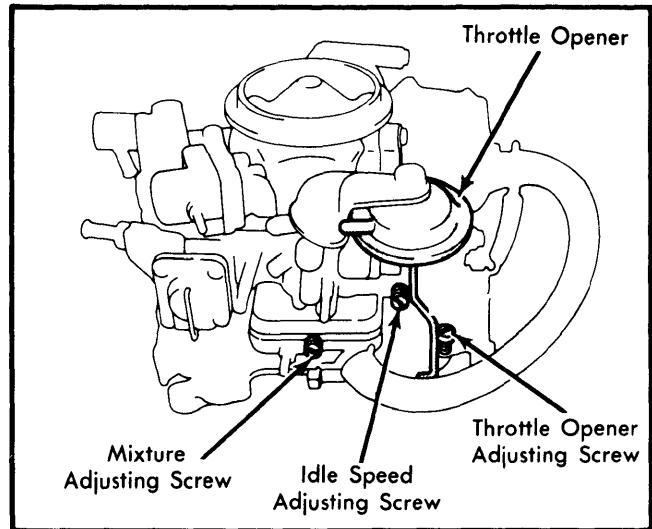


Fig. 2 Throttle Opener Adjusting Screw Location