

## Idle Speed: Adjustments

### CURB IDLE SPEED ADJUSTMENT

#### Explanation

Curb idle speed (RPM) is controlled by the Electronic Engine Controls (**EEC IV**) processor and the idle speed control device. If the control system is operating properly, these speeds are self-compensating and cannot be changed by traditional adjustment techniques.

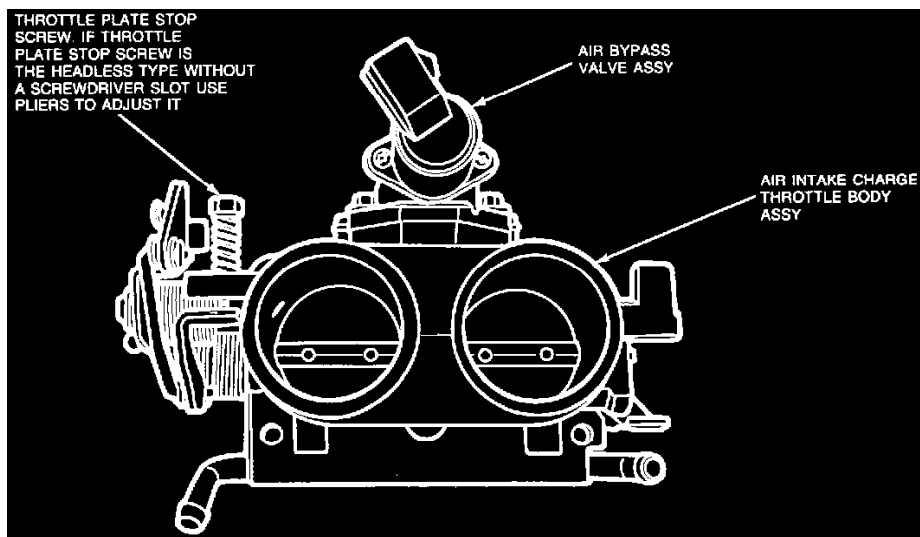
Adjustments are sometimes required to establish the correct operating limits within which the Idle Speed Control (**ISC**) system can properly function. Misadjustment of the operating limits could restrict the operating range of the ISC system, so adjustments to the system should never be made unless a specific causal factor has been identified.

#### Vehicle Prechecks

- Verify the following:
  - Cooling system is filled.
  - Throttle plate and throttle bore are clean.
  - Throttle is not sticking or binding.
  - Throttle lever is resting on the throttle stop screw.
  - There are no vacuum leaks.
  - Heater and accessories are off.
  - Engine at operating temperature.
- Place transmission in PARK or NEUTRAL, apply parking brake, and block the wheels.
- Check curb idle rpm, automatic transmission in DRIVE, manual transmission in NEUTRAL. See: Specifications
- If a rough idle speed problem exists perform Electronic Engine Controls (**EEC IV**) Quick Test. Resolve any deficiencies indicated. See: Computers and Control Systems/Testing and Inspection
- If curb idle speed is not within specification perform the following:
  - Shut off engine.
  - Disconnect negative (-) battery terminal for three minutes minimum then reconnect.
  - Let engine idle for five minutes with automatic transmission in DRIVE.
- Recheck curb idle speed, if still not within specification continue with Adjustment procedure.

#### Adjustment Procedure

- Place transmission in NEUTRAL or PARK, run engine at 1800 rpm for 30 seconds.
- Let engine idle, place automatic transmission in DRIVE, manual transmission in NEUTRAL.



- Check/adjust idle rpm. Back out the throttle plate stop screw until **610 +/- 40 rpm** (automatics) or **710 +/- 40 rpm** (manuals) is reached, then back out an additional 1/2 turn.

**NOTE:** Adjustment must be completed within 40 seconds. After 40 seconds idle speed may change due to strategy parameter.

- Shut engine off and disconnect battery for 3 minutes minimum.
- With engine off, reconnect idle speed control-air bypass solenoid. Verify the throttle is not stuck in the bore and linkage is not preventing the throttle from closing.
- On Automatic Overdrive Transmissions (**AOD**), check TV pressure adjustment.