Ford AOD Throttle Valve Adjustment

TV ROD LINKAGE

1. Check curb idle speed, adjusting as necessary. Ensure curb idle speed is set to specification and without the throttle solenoid positioner (anti-diesel solenoid) energized, if equipped.

2. Attach a 100 psi pressure gauge to the TV port on transmission using enough flexible hose so that the gauge can be read while operating engine. See FIGURE 1.

3. Obtain TV control pressure gage block No. D84P-70332-A or fabricate a block .390-.404 inch thick, Figure 2.

4. Run engine until it reaches normal operating temperature and the throttle lever is off fast idle, or the idle speed control (ISC) plunger, if equipped, is at its normal idle position. Ensure transmission fluid temperature is approximately 100 - 150°F.

Apply parking brake,
place shifter in Neutral, remove air cleaner and shut off air conditioner. If equipped with a vacuum operated throttle modulator, disconnect and plug vacuum line to this unit. If equipped with a throttle solenoid positioner or an idle speed control, do not disconnect either of these units.

6. With engine idling in Neutral and no accessory load on engine, insert gage block between carburetor throttle lever and adjustment screw on the TV linkage lever at the carburetor as in Figure 2. The TV pressure should be 28-38 psi. For optimum setting, use adjusting screw to set pressure as close to 33 psi. as possible. Turning the screw in will raise the pressure 1.5 psi. per turn and backing out the screw will lower the pressure. If equipped with idle speed control, some "hunting" may occur and an average pressure reading will have to be determined. If the adjusting screw does not have enough adjustment range to bring TV pressure within specification, first adjust rod at transmission.
7. Remove gage block, allowing TV lever to return to idle. With engine still idling in Neutral, TV pressure must not be less than 5 psi. If not, back out adjustment screw until TV pressure is less than 5 psi, then reinstall gage block and ensure that TV pressure is still 28-38 psi.

**TV CABLE LINKAGE**

1. Attach a 100 psi pressure gauge to the TV port on transmission using enough flexible hose so that the gauge can be read while operating engine. See Figure 1.

2. If necessary, remove air cleaner cover and inlet tube from throttle body inlet. On light trucks and vans, remove protective cover from cable linkage, if equipped.

3. Insert tapered end of TV cable gage tool No. T86L-70332-A or equivalent between crimped slug on end of cable and plastic cable fitting that attaches to throttle lever, Figure 3.

4. Push gage tool in, forcing the crimped slug away from the plastic fitting, ensuring gage block is pushed in as far as it will go.

5. Run engine until it reaches normal operating temperature and temperature of transmission fluid is 100-150°F.

6. Apply parking brake and place shift selector in Neutral. TV pressure should be 30-40 psi. For best results, set TV pressure as close to 33 psi. as possible as follows: a. Using suitable tool, pry up white toggle lever on cable adjuster located immediately behind throttle body cable mounting bracket. The adjuster preload spring should cause the adjuster slider to move away from the throttle body and TV pressure should increase. b. Push slider from behind bracket until TV pressure is 33 psi. and, while still holding slider, push down on toggle lever as far as it will go, locking slider in position. c. Push on slider from behind bracket until TV pressure is 28 psi. and, while still holding slider, push down on toggle lever as far as it will go, locking slider into position.
7. Remove gage tool, allowing cable to return to its normal idle position.

8. If TV pressure is not less than 5 psi., reinstall gage block and repeat step 6, setting TV pressure to a pressure of less than 33 psi. but not less than 28 psi.

9. Remove gage block and ensure TV pressure is less than 5 psi.