

AOD GOVERNOR VALVE CLEAN/REPLACE:

The governor valve senses the output shaft speed via centrifugal force of this valve against line pressure. As forces increase, more line pressure is applied to the valve body to signal shift valves to stroke. The weight of this valve has a direct relationship on how much centrifugal force (output shaft speed) is needed before pressure increases to make those valves stroke. There are three different weighted valves available through Ford. The effect of the governor valve has an effect on shift points for all gears through the entire RPM range.

TOOLS:

Complete socket set and wrench set (SAE and metric) w/extensions, 12 point 12mm wrench, #3 Phillips screwdriver, mallet, carb cleaner, gasket scraper, oil catch pan, floor jack, jack stands.

REMOVAL:

The governor requires the removal of the transmission extension housing that contains the output shaft and the governor assembly.

- Block the front tires and secure car on jack stands so that the rear of the vehicle is as high as you can comfortably get it.
- Remove the driveshaft from the axle pinion with 12mm 12 point wrench. A mallet might be needed to beat the shaft loose from the pinion.
- Pull shaft and yoke out of transmission. Have a catch pan ready, only slight fluid loss is associated with this procedure – usually just drips.

It is often necessary to remove the tailpipes from the H / X / Midpipe for the next step and let them hang freely.

- Support the transmission pan with the jack (block might be needed)
- Remove the cross member assembly that supports the transmission. This assembly comes in many configurations. The end result is you need access to the bolts holding the extension housing to the transmission case.
- Remove the speed sensor and wires, and loosen the six ½” bolts securing the housing. It is only necessary to shift the housing 5 to 6 inches, however I recommend you completely remove the housing from the vehicle. A mallet might be needed to break the housing loose from its gasket. 90% of the time this gasket is not harmed. Should it break or tear; simple gasket sealer will suffice or reassembly.

You will see the governor assembly hanging from the output shaft. **(fig 1)** Rotate the output shaft (neutral) so that the aluminum housing is pointed towards you. Remove the 2 large Phillips screws and take the assembly to the bench careful not to dump the valve assembly.

Remove plug, governor regulator sleeve, governor filter/screen, and governor valve. **(fig 2)** Remove the plate on the top section of the assembly (7mm bolts). Thoroughly clean the body and components. Remove the E-clip from the old governor valve and use it to secure the new RED spring to the new valve. Replace the governor valve with the supplied valve. **BE SURE THE VALVE MOVES FREELY.** This valve must move freely and rattle up and down in its bore as you shake the assembly. If the valve sticks, find it's sticky spot and bump the assembly on the table to help beat the casting impurities into the porous aluminum.

When reinstalling the governor assembly to the counterweight you MUST make sure the plate and 7mm bolts are facing the trans, or that the part number on the aluminum casting is point to the rear.

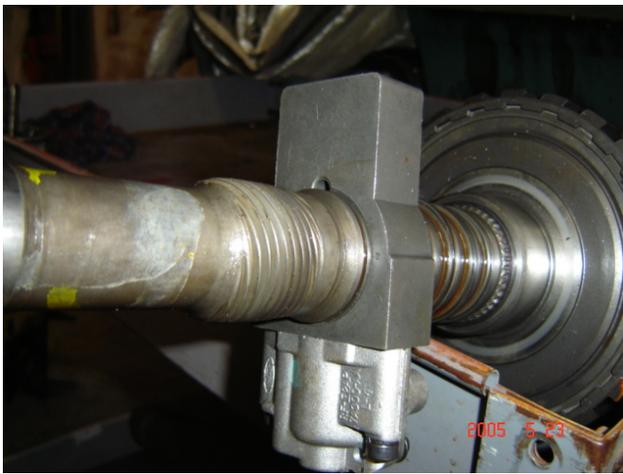


fig 1

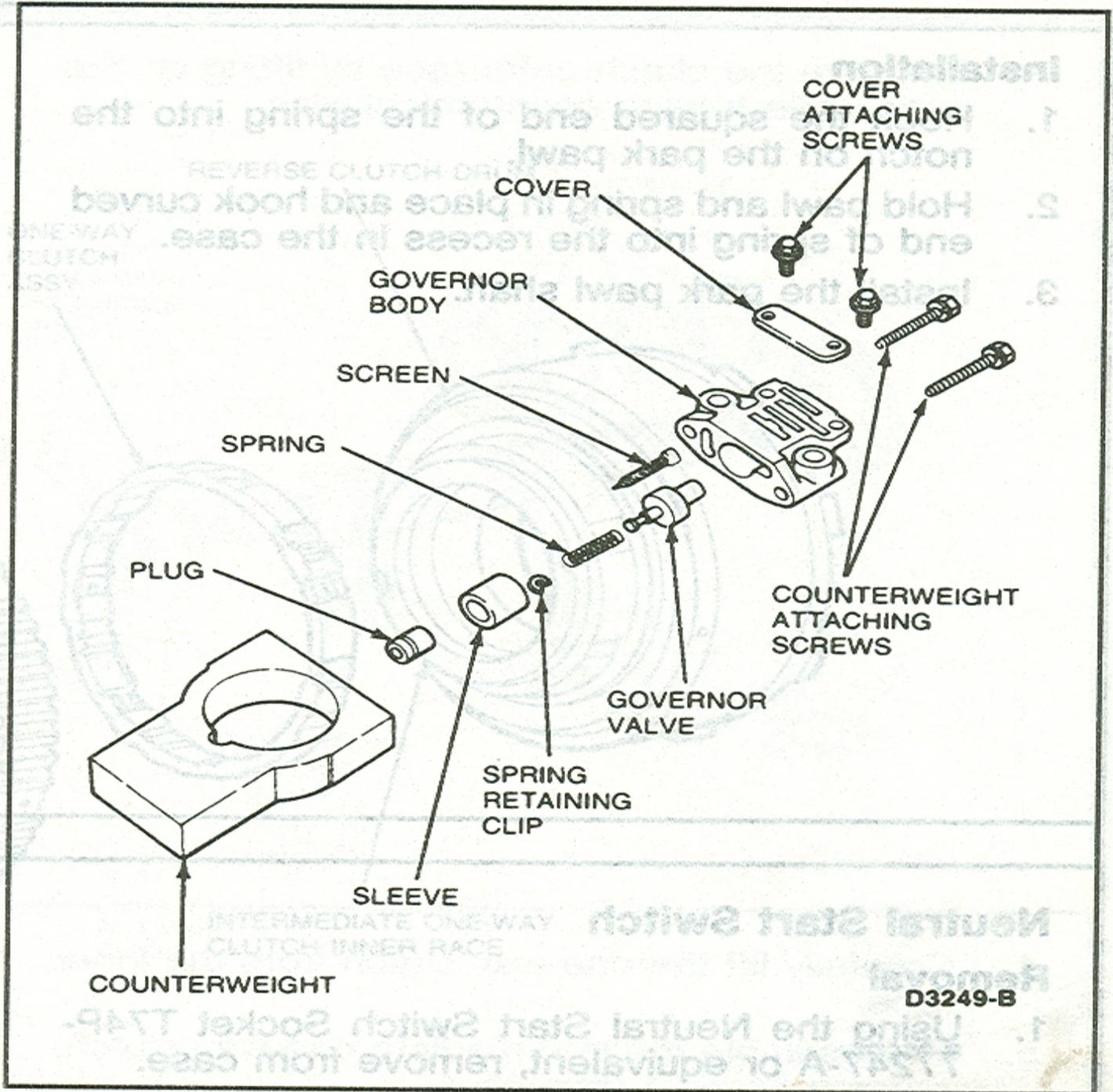


fig 2