

Group 35 GOVERNOR

DESCRIPTION

When the fuel applied to a motor continuously varies, a governor is necessary to regulate engine to maintain uniform engine speed. The governor accomplishes this by changing power supplied to cylinder in accordance with loads applied to shaft. For effective control, the governor must not only vary immediately the power output of engine, but must also be sensitive to changes in engine speed. The action of a governor must be smooth, without "hunting" or erratic action.

The Model "M" Taurus is equipped with a gear-driven, centrifugal flyweight type governor having two weights mounted on a single carrier which is rigidly fixed to governor shaft. The governor operates on the "throttle transfer" of governing. Changing the relative position of reference throttle fly changes amount of fuel and air mixture going into cylinder of engine. As gov-

ernor is throttle control lever so that governor will maintain any engine speed up to throttle control lever, when engine is controlled.

Normal operation of the engine demands largely upon proper operation of governor. The Model "M" governor is specifically designed to give low governing performance between speeds of 1800 R.P.M. full load rated engine speed and over 3000 R.P.M. full load.



Figure 25-25-1—Removing Air Throttle

REPAIR

Remove Shaft and Collar. Using a large screw driver, remove spring hardware. Remove lead line, and drive pin.

Remove Air Chamber. Loosen air-chamber lever clamp from reference air line. Remove air chamber of top. Loosen lever air chamber attaching bolt and remove upper attaching top screw (Fig. 25-25-2) using a flathead screw. Lift out air chamber.

Detach Governor-to-Reference Linkage. Disconnect governor-to-reference linkage from reference.



Figure 25-25-2—Removing Governor-to-Reference Linkage

Remove Fan Assembly. Loosen governor belt and slip it from governor pulley. Loosen fan attaching nut (Figure 25-25-3), slip fan assembly down to side of fan bracket and remove fan. Lift down fan drive pulley on front end of crankshaft. Slip carrier fan assembly onto governor and fan timing line of fan bracket and remove from engine.

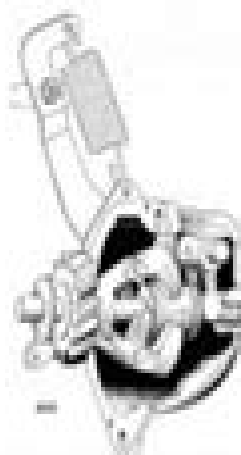


Figure 25-25-3—Remove Assembly

ernor shaft (Figure 25-25-4) remove weights on thrust carrier by centrifugal force, forcing thrust bearing against governor belt, which in turn actuates governor lever and through governor-to-reference linkage, controls extent of governor supplied to engine. The control of fuel and air mixture, which is supplied to engine, produces the desired power and speed changes of engine under varying loads. The governor is

Detach Governor-to-Throttle Control Rod Linkage. Disconnect governor-to-throttle control linkage from throttle control rod (Figure 25-25-5). Loosen governor-to-throttle control rod fast bracket (Figure 25-25-6) by removing two wing screws which hold it to control manifold.



Figure 25-25-5—Removing Governor-to-Throttle Control Rod Linkage

Remove Governor. Remove governor attaching wing screws and work governor out line of front gear cover. Slip governor shaft into



Figure 25-25-6—Removing Governor-to-Throttle Control Rod Fast Bracket

"hunting" action after reference has been properly set, it may be necessary to disassemble governor (Figure 25-25-7).

Governor Case. Remove spring from governor operating lever (3, Figure 25-25-7) and governor lever (4). Remove top Wipac plug (5), insert punch into this hole, and drive out governor which holds governor link (6) to governor operating shaft and lever assembly. Remove Wipac plug (7) at end of governor operating shaft and drive governor operating shaft from governor case.

Oil Seal. Remove oil seal and axial retainer (8).

Governor Shaft and Weight Assembly. Remove thrust washer (9) and fly governor thrust bearing (10) from governor shaft. Remove weights from weight carrier by driving out attaching pins.

NOTE: Before weight pin can be removed it is necessary to pull off "hub" portion at end of pin.

Governor Operating Linkage. Governor-to-reference control rod may be freed from governor shaft lever by removing line, nut and lock washer which hold control head of governor-to-reference linkage rod to governor operating shaft lever. Throttle control rod-to-governor linkage may be freed by removing carrier key and screw pin which hold pins to governor lever.

Throttle Control Rod Fast Bracket. Slip throttle control rod line of throttle control rod from bracket. Remove carrier pin carrier key from rear bracket from fly carrier pin line of bracket.



Figure 25-25-7—Removing Governor-to-Throttle Control Rod Linkage

weight carrier and gear (Figure 25-25-8) line of reference mark, making sure that thrust washer, which is between gear on governor shaft and cylinder block, does not fall into front gear cover when removed.

DISASSEMBLY

NOTE: The governor adjuster requires service. Loosen, if governor operates with an erratic or

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