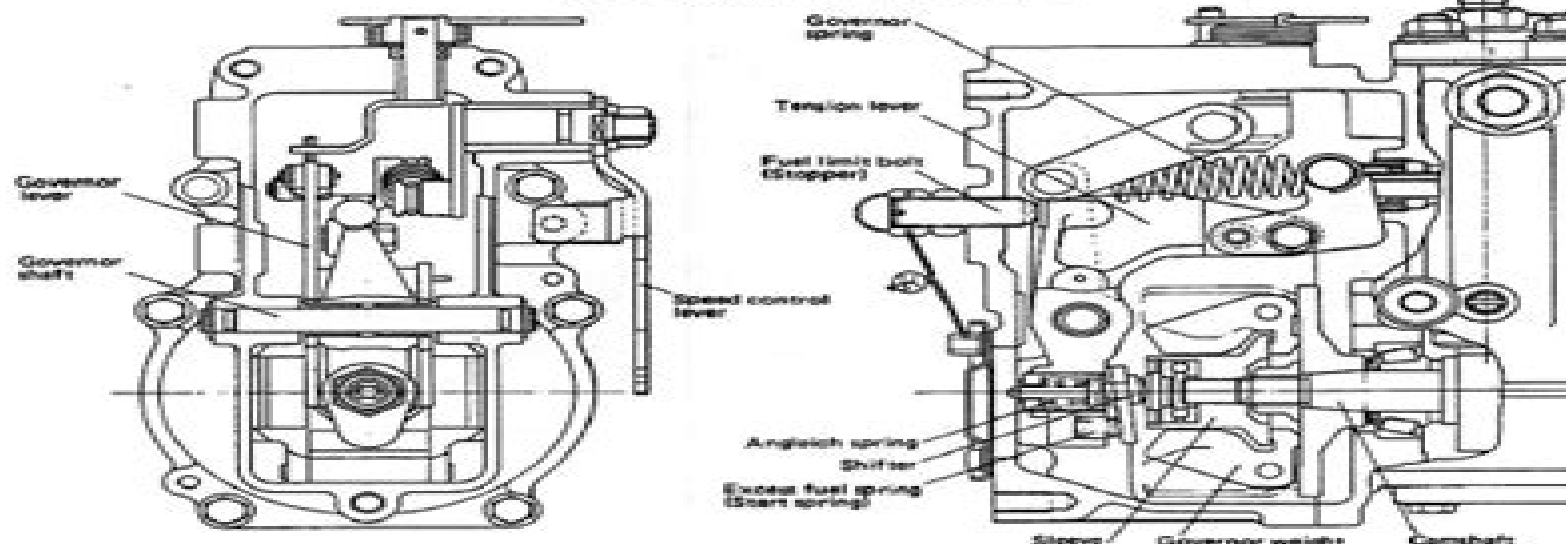


1-5 Governor construction

Diesel engines are used in extremely varied conditions, with a wide range of loads and rpms. The governor has the important function of controlling the fuel injection quantity. It quickly responds to changes in rpm by adjusting the position of the control rack.

YPES-AL fuel injection pump is equipped with the all speed type governor. The governor is available in 2 types: one has the torque rise spring (angleich spring) (Fig. 1), and the other has the smoke cut spring (angleich spring) (Fig. 2).

Fig. 1 Governor with torque rise spring



The governor weight is mounted on the end of the fuel injection pump cam shaft. It rotates around the governor support pin, driven by the cam shaft, and is forced outwards by the centrifugal force acting on the weight.

The thrust force on the cam shaft due to this centrifugal force acts on the lower part of the tension lever via the sleeve. An excess fuel spring for starting is mounted on the bottom of the tension lever.

One end of the governor spring is hooked to the right upper end of the tension lever, and the other end to the spring lever on the control lever shaft.

The spring lever and control lever are mounted on the same shaft, so by turning the control lever towards full, the governor spring is pulled and the load gradually rises.

The tension lever can move freely around the governor shaft on the player bearing. As the speed increases and the shifter is pushed to the left, the tension lever rotates clockwise. And when the speed falls, the tension lever rotates counterclockwise.

The governor lever rotates smoothly on the same governor shaft. The bottom part of this lever is in contact with the sleeve through the shifter, which is itself in contact with the bottom of the tension lever through the excess fuel spring. It therefore moves with the tension lever according to the rise or fall of the engine speed.

The top of the governor lever is connected to the fuel pump control rack through the governor link. The movement of the lever controls the volume of fuel injected by the pump. As the speed increases, the lever rotates clockwise and moves the control rack to reduce fuel, and when the speed falls the lever rotates counterclockwise to cause the control rack to pass more fuel. Thus, the engine speed is controlled.

The top of the tension lever comes in contact with the stopper built into the top of the governor case to limit the maximum fuel injection volume.

Yanmar 3 Cylinder Diesel Engine Manual 3des

Perry O. Black



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