

GOVERNOR

An Engine Governor is commonly a speed sensitive device that automatically controls the speed of the Engine by adjusting the amount of fuel fed to the engine.

Location: Engine Right side Power takes off end.

Functions:

1. It maintains constant engine speed irrespective of Load and Road.
2. It makes to shut down the diesel engine in case of low lube-oil pressure and low water level.
3. It helps in starting the diesel engine.
4. It helps to increase and decrease the engine by varying fuel rack.

Important coils in Governor (G.E. Governor)

1. Stabilizing coil:
 - a) If it is energized before starting the engine it brings "A" arm nearer to "B" arm
 - b) On Run if it is energized engine comes to shutdown by bringing A & B arms to No Fuel position.

2. Clutch coil:
 - a) If clutch coil gets supply "A" and "B" arms are magnetically locked (A arm and B arm must be nearer)
 - b) On Run if it is de-energized engine comes to shutdown (in case of OPS, SAR, LWS etc., operation) by making A & B arms separation.

3. Speed coil:

According to Throttle Handle position speed coil current is changing due to this amount of fuel changing causing for engine RPM changing.