

LARGE DIESEL ENGINES

VARIABLE SPEED CONTROL ADJUSTMENT. Loosen adjusting screws (1 and 2—Fig. L24A) on end of governor. Start engine and move control lever towards slow position until engine speed is 650 rpm. Turn idle adjusting screw (1) clockwise until it holds lever at idle speed position. Move control lever towards fast position until maximum rated speed and load is reached. Adjust high speed screw (2) until control lever is held in correct position. Tighten locknuts and safety wire screws together to prevent loosening.

CONSTANT SPEED CONTROL ADJUSTMENT. Adjust speed on constant speed Minimec pumps as follows: Loosen low speed screw (1—Fig. L24A) and high speed screw (2). Move control lever to obtain maximum rated speed and load. Hold lever in correct position and adjust high speed screw (2) until it contacts lever, then adjust low speed screw (1) to hold lever against high speed stop. Tighten locknuts and safety wire screws together.

GOVERNOR

HR3 Models Only

The gear driven flyweight governor is located in top of timing gear case. Timing gear cover must be removed for access to governor. Two types of governors are used; either a constant speed or a variable speed (Fig. L25). Governor assembly rotates in a renewable bearing (4—Fig. L26) and governor weights and springs may be serviced separately.

To calibrate fuel pump linkage and set governor, set engine control to "RUN"

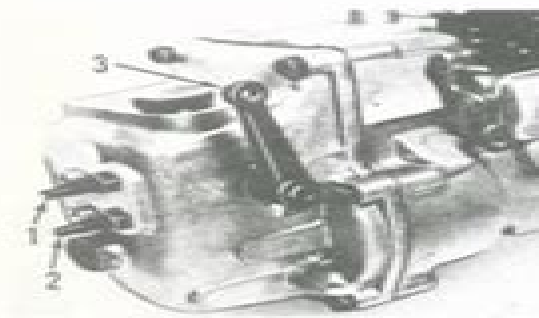


Fig. L24A—View of low and high speed adjusting screws located on rear of governor housing on Minimec pump. Refer to text for adjustment procedure.

1. Low speed adjustment screw
2. High speed adjustment screw
3. Pump throttle lever

position. Adjust fuel pump linkage so calibration marks (1—Fig. L22) coincide with sides of pump bodies within 0.005 inch. Rack must move freely after adjustment. Adjust overload stop (7) so when it touches overload trip (10), calibration marks are aligned with edge of pump bodies.

To set governor, lift overload trip. Adjust rod (9) (remove cotter pin and screw in or out), with calibration marks aligned, so the distance between governor weight and bottom edge of thrust bearing is $\frac{1}{8}$ -inch.

Engines equipped with variable speed governors use an adjustable idling spring (insert—Fig. L22). The spring rides against fuel pump and applies pressure on pump rack to eliminate "hunting" or surging. To adjust idling spring (3), main speeder spring (11) must be completely loosened. Rotate adjusting sleeve (5) until idle speed is about one third rated engine speed. Main speeder spring should be adjusted so it just begins to increase engine speed. Idle speed is 750-850 rpm.

INJECTOR NOZZLES

All Models

REMOVE AND REINSTALL. Remove cylinder head cover. Disconnect leak-off pipe and pressure pipe. Unbolt injector clamp and lift out injector.

Renew oil seal ring and copper washer. Reinstall in reverse order of removal. Tighten injector clamp nuts evenly to 15 ft.-lbs. torque, then connect and tighten fuel lines.

WARNING: Fuel leaves the injection nozzles with sufficient force to penetrate the skin. When testing, keep your person clear of the nozzle spray.

TESTING. All nozzles have four spray holes. Opening pressure is 2500-2650 psi. Leak down rate must be 10 to 55 seconds for pressure to drop from 2200 to 1470 psi.

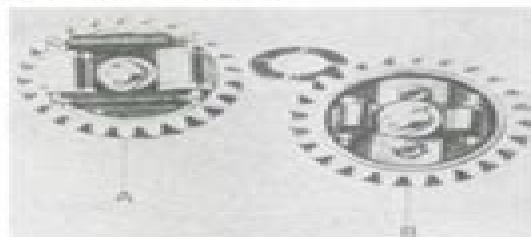


Fig. L25—Two types of gear driven flyweight governors are used on three cylinder engines. A constant speed "A" or a variable speed "B" governor is located within timing gear cover.

Lister

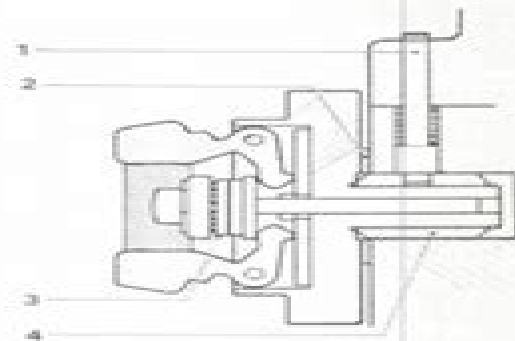


Fig. L26—Governor gear is driven directly by the camshaft and runs in a renewable bearing.

1. Spring loaded sleeve
2. Thrust washer
3. Thrust bearing & shaft seal
4. Governor bearing

To check spray pattern and pressures, connect injector to approved nozzle tester and operate tester at approximately 60 strokes per minute. A finely atomized spray should emerge at each nozzle hole and a distinct chatter should be heard as tester is operated. If spray is not symmetrical and is streaky, or if injector does not chatter, renew or recondition injector.

Correct opening pressure is 2500 psi for used injectors, and 2650 psi for new injectors or when new spring is installed. If pressure is not correct, remove rubber plug in nozzle cap nut and turn adjusting screw as required.

TURBOCHARGER

Model HRS6 Only

A Schwitter Model 3LD turbocharger is used on some models. Turbocharger is lubricated from main engine lubrication system, and uses a separate oil filter mounted on flywheel end of engine.

CAUTION: DO NOT operate turbocharger without adequate lubrication. When turbocharger is first installed, or engine has not been run for a month or more, or new oil filter has been installed, turn engine over with starter with fuel cut off until oil pressure is indicated, then start engine. Run engine at slow idle speed for at least two minutes before opening throttle or putting engine under load.

Some other precautions to be observed in operating and servicing a turbocharged engine as follows:

Do not operate at wide-open throttle immediately after starting. Allow engine to idle until turbocharger slows

Lister Diesel Engine Repair Manual

Sebastian Brünink



Lister Diesel Engine Repair Manual:

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