## LISTER

Model	Non. Cylin.	Bore (in.)	Stroke (in.)	Displ. (cu. in.)
HESS, HERVYS	- 34	4.25	4.50	194
HIRO, HIRWA	4.	4.225	4.50	255
HIRS, HIRWS	- 6	4.25	4.50	30832
HRS6, HRSW6	- 6	4.25	450	31822

All engines are four-stroke, vertical in-line, direct injection diesel engines. Crankshaft rotation is counter-clockwise at pto (flywheel end of engine). HR serice engines are air cooled. The finned flywheel of HR3 models is the centrifugal cooling fan, cooling of other HR models is by an axial flow fan, belt driven from crankshaft. HRW series are liquid cooled using a water pump and radiator. HRS6 and HRWS6 series engines are equipped with a turbocharger.

Firing order is 1-3-2 for three cylinder engines; 1-3-4-2 for four cylinder engines; 1-5-3-6-2-4 for six cylinder engines.

## MAINTENANCE

#### LUBRICATION

#### All Models

Lister recommends lubricating oils with API service classification of CC or CD. Straight mineral oils or oils of less detergency are not suitable. If operated with high load factor, in high air temperatures or if the sulphur content in the fuel exceeds 0.678, API CD oils or equivalent are recommended. Oil change interval is every 250 hours operation with filter change at the same time.

If operating temperatures fall below 10°F., an SAE 10W weight oil is recommended. In temperatures between 10° to 85°F. use SAE 20-20W and above 85°F. use SAE 20 or 10W-40.



Fig. L1 – On HW3 and HRW3 models, bleed screws are located at "A" on fuel fitter body and "B" on fuel pump. Refer to text.

Cristiocase capacition are an interven
HR3, HRW3 13 qts.
HR4, HRW4
HR6, HRW6 21 qts.
HRS6, HRWS621 qts.

### **FUEL SYSTEM**

### All Models

FUEL FILTER. The life of a fuel filter depends on the amount of contamination it must remove from the fuel. If engine misfires or loss of power is evident, renew the filter. In any event, filter should be renewed every 1500, hours on HRS and HRWS models, and every 1000 hours on all other models.

BLEED FUEL SYSTEM. When fuel fuel, bleed air from fuel system as follows: On HE3 and HRW3 models, refer to Fig. L1 and loosen bleed screw (A) on fuel filter body. Tighten screw when air-free fuel flows from bleed screw (B), one at a time, starting at pump nearest fuel filter. When air-free fuel flows from bleed screw (B), one at a time, starting at pump nearest fuel filter. When air-free fuel flows from bleed screw, tighten screw and proceed to next pump.

On models equipped with C.A.V.-Minimec fuel pump, lossen bleed screw on fuel filter body and manually operate fuel lift pump until air-free fuel flows from bleed screw. Tighten bleed screw, then refer to Fig. L2 and loosen fuel pump bleed screw (A). Operate lift pump until air-free fuel flows, then tighten bleed screw. Loosen fittings on high pressure lines at injectors; open throttle and turn engine with starter until fuel flows from injector lines, then tighten fittings and start engine.

On models equipped with C.A.V., D.P.A. pump, lossen bleed screw at filter body and operate lift pump until nir-free fuel flows, then tighten bleed screw. Refer to Fig. L3 and lossen pump bleed screws (2, 3 and 4) in that order, one at a time. Operate lift pump and tighten bloed screw when air-free fael appears. Lossen fittings on high preasure lines at injectors. With throttle open, turn engine with starter until fael flows from injector lines. Tighten fitlings and start engine.

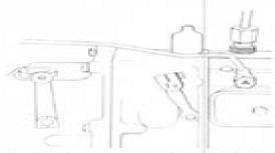


Fig. L2—On models equipped with C.A.V.-Minimec pump, looses bleed screw "A" to bleed air from pump. Refer to test.

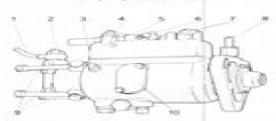


Fig. 1.3 — On models equipped with C.A.V-D.P.A. pump, loosen bleed screws 2, 3 and 4 in that order to bleed air from pump. Refer to best.

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- St. Supposed producted.
- T. Mines lieb or B. Frank lends with
- L. Provid Sensit 1985
- 18. Report to previously page

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**Lister Bs 649 Service Manual:** 

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