

## EXTERNAL BREATHER SYSTEM

### Lister-Petter LV and LT Engines

#### Description

LV and LT Lister-Petter diesel engines have an internal crankcase breather system. This connects the crankcase via the rocker cover to small breather tubes passing directly into the engine air intake ports. When a Chalwyn air intake shutdown valve is fitted, the internal breather connections will permit sufficient air to be drawn into the engine via the crankcase to enable the engine to continue to run after the Chalwyn valve closes. Conversion to an external breather system venting to atmosphere overcomes this problem.

#### Installation

1. Fit the Chalwyn breather assembly part number BLL-010 in place of the fuel pump inspection cover sited on the engine crankcase. Ensure the breather body assembly is fitted upright with the 5/8" breather outlet tube towards the upper end. Re-use the standard Lister fuel pump cover gasket if serviceable - replace with a new gasket if not.
2. Slide the length of oil resistant hose supplied over the breather outlet tube and fasten using the jubilee clip (part number SC-02).
3. Remove the engine rocker covers and locate the 5mm bore internal breather tubes (one per cylinder). Coat the aluminium plugs (part number BLL-001) with a suitable grade of loctite or other oil and temperature resistant sealant and gently drive one plug into each breather tube. Allow to dry. Re-fit rocker covers and start engine to set the Chalwyn shut down valve.

#### Maintenance

On a yearly basis remove the Chalwyn breather assembly from the engine. Soak in white spirit or other cleaning fluid to remove oily deposits from the oil separator fitted inside the breather. (Observe the manufacturer's precautions when using cleaners). Thoroughly dry assembly and re-fit using a new gasket if necessary.

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