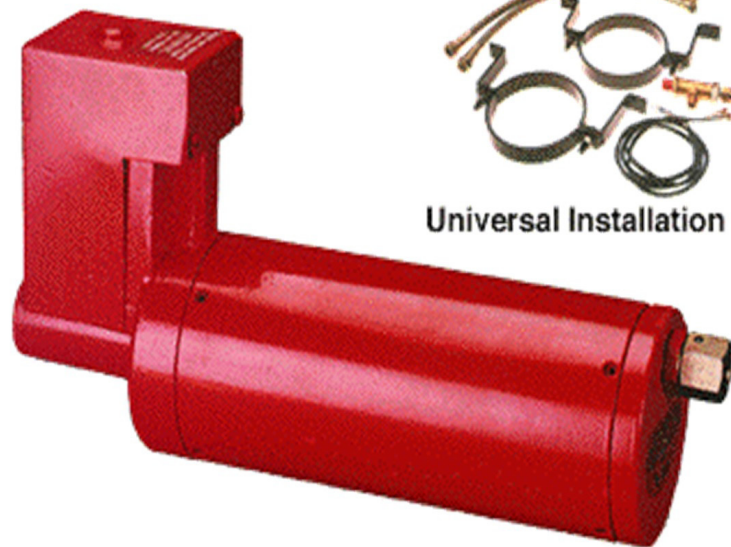


Turboprotector

Features and Benefits

- Fully automatic operation
- Pre & post lubrication
- Fits any engine
- Easy to install
- Fail-safe operation
- Uses standard engine oil
- Maintenance free
- 12 vdc & 24 vdc
- Universal installation kit



Universal Installation Kit

Your Money Saver - Turbosafe

more than doubles turbo life
eliminates hot shutdown and oil lag failures

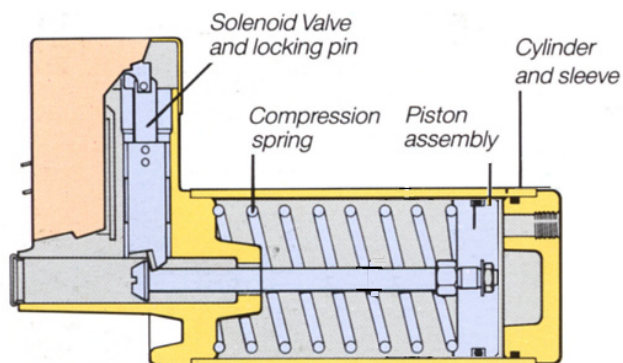
Oil starvation is the largest single cause of turbocharger failure & premature wear.

TurboSafe is a spring loaded, 2 stage accumulator that automatically provides oil to the turbo, on **start-up** and **shutdown**.

How does it function?

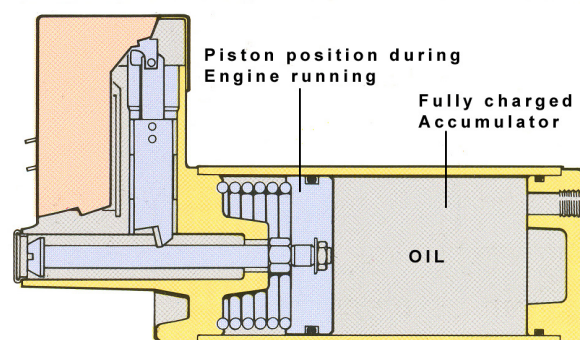
An accumulator with a spring loaded piston is controlled by an integral solenoid.

When first installed, the accumulator is empty. When the engine is started, the accumulator is charged by hydraulic pressure from the engine oil pump.



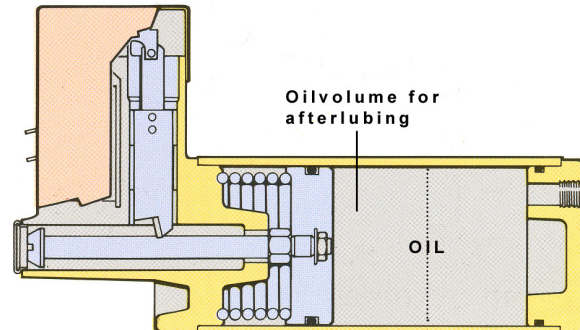
Engine running

Whenever the engine is running the piston remains in the fully backward position as long as there is full oil pressure in the engine.



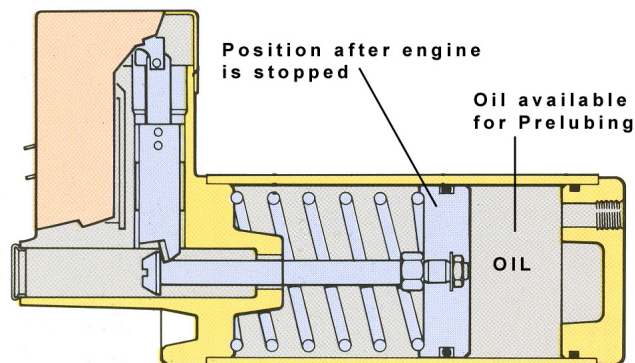
Engine stopped

The instant the engine is stopped, the oil pressure drops and the piston is driven forward by the pressure of the spring. Oil is thus forced into the turbocharger bearings at 20 PSI (1.4 bar) for approx. 2 minutes whilst the hot turbocharger rotor is spinning. The oil supplied from the accumulator lubricates and cools the bearings and rotor.



Engine is started

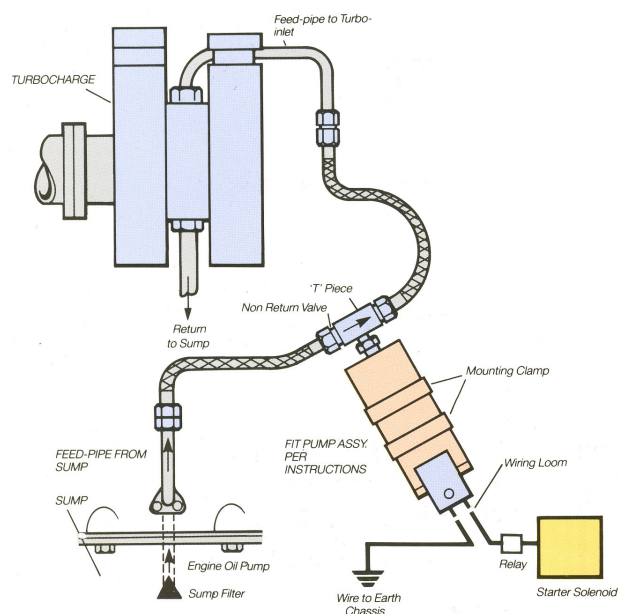
When the engine receives a start signal, the solenoid is energised and the locking pin immediately releases the remaining oil at 15 PSI (1 bar) on a continued basis into the turbochargers bearings. The increasing oil pressure from the running engine then fully recharges the accumulator, as shown under „Engine running“.



Installation

Installation is very straight forward and is simplified with an universal installation kit. The **Turbo protector** can be mounted on the engine or at a position up to 2 metres away.

The installation kit consists of PTFE stainless covered pipes, wiring harness and brackets. The solenoid is available in 12, 24 or 32 volts dc, or it can be supplied with an air operated solenoid.



Local Distributor / Partner:



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