

ENGINE STOPS AUTOMATICALLY REFERENCING ENGINE MODEL ER12

The ER12 engine is equipped with an oil pressure switch which will shut engine off if low oil pressure or clogged oil filter occurs.

See page (2) for details and specifications on Oil Switch

The engine electronic control unit is designed to automatically shut engine off:

- after 5 minutes of idling below 2,500 RPM's
- immediately above 5,000 RPM's

ENGINE OIL CHANGE:

- Initial change: - - - After 20 hours of operation
- Thereafter: - - - - - Every 100 hours of operation

REPLACE & CLEAN OIL FILTER PLUG:

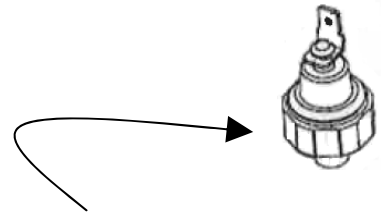
- Initial cleaning: - - - Clean after 20 hours of operation
- Thereafter: - - - - - Clean every 100 hours of operation
- - - - - - - - - - - - - - Replace every 300 hours of operation

ENGINE RPM SPECIFICATION:

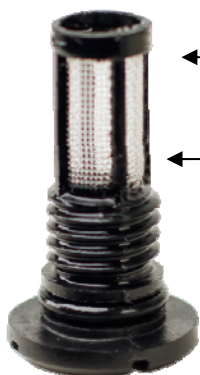
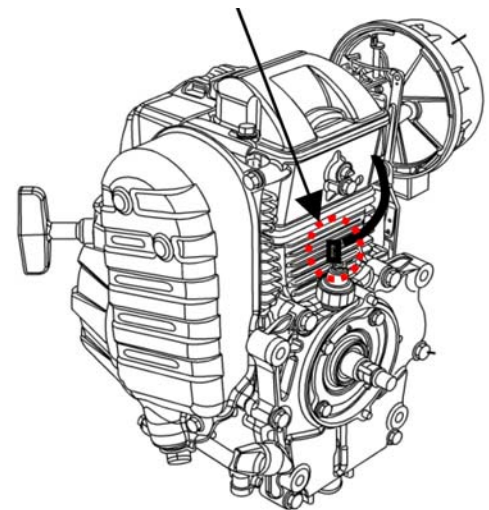
- Idle speed: - - - - - 2,000 RPM ± 100 RPM
- Clutch engagement: - - - between 2,350 to 2,500 RPM's
- Full speed: - - - - - 4,000 RPM

ENGINE OPERATING OIL PRESSURE:

- 2,000 RPM Idle speed: - - - (11.4 PSI), (0.8 kg/cm²), (80 kPa)
- 4,000 RPM Full speed: - - - (24.2 PSI), (1.7 kg/cm²), (170 kPa)



Oil Pressure Switch: - MQ Part # **21E76301H1**



Mesh Screen

Oil Filter Plug: - MQ Part # **21E65001H2**

O-Ring: - MQ Part # **0240110020**



OIL PRESSURE SWITCH

The Oil Pressure Switch works with the CPU (Central Processing Unit) inside the ignition coil. The switch functions "ON" and "OFF".

Switch is normally closed and contacts open between 1.42 to 2.84 PSI

OIL PRESSURE SWITCH (*INSPECTION*)

Measure resistance between the terminal and the pressure switch body

- With engine "OFF" stopped = 0 ohm Ω (continuity)
- With engine "ON" running = ∞ (No continuity)

If switch fails inspection after cleaning, replace with a new one – MQ Part # **21E76301H1**

(apply sealant – three bond 1315 – to thread when re-assembling)

