Perkins

# Perkins 400 Series

Models 403C-11, 403C-15, 404C-22 and 404C-22T

# WORKSHOP MANUAL

| | |
|---|---|
| **403C-11** | **Three cylinder naturally aspirated diesel engine** |
| **403C-15** | **Three cylinder naturally aspirated diesel engine** |
| **404C-22** | **Four cylinder naturally aspirated diesel engine** |
| **404C-22T** | **Four cylinder turbo charged diesel engine** |

**Perkins Confidential: Green**

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## Engine lift equipment

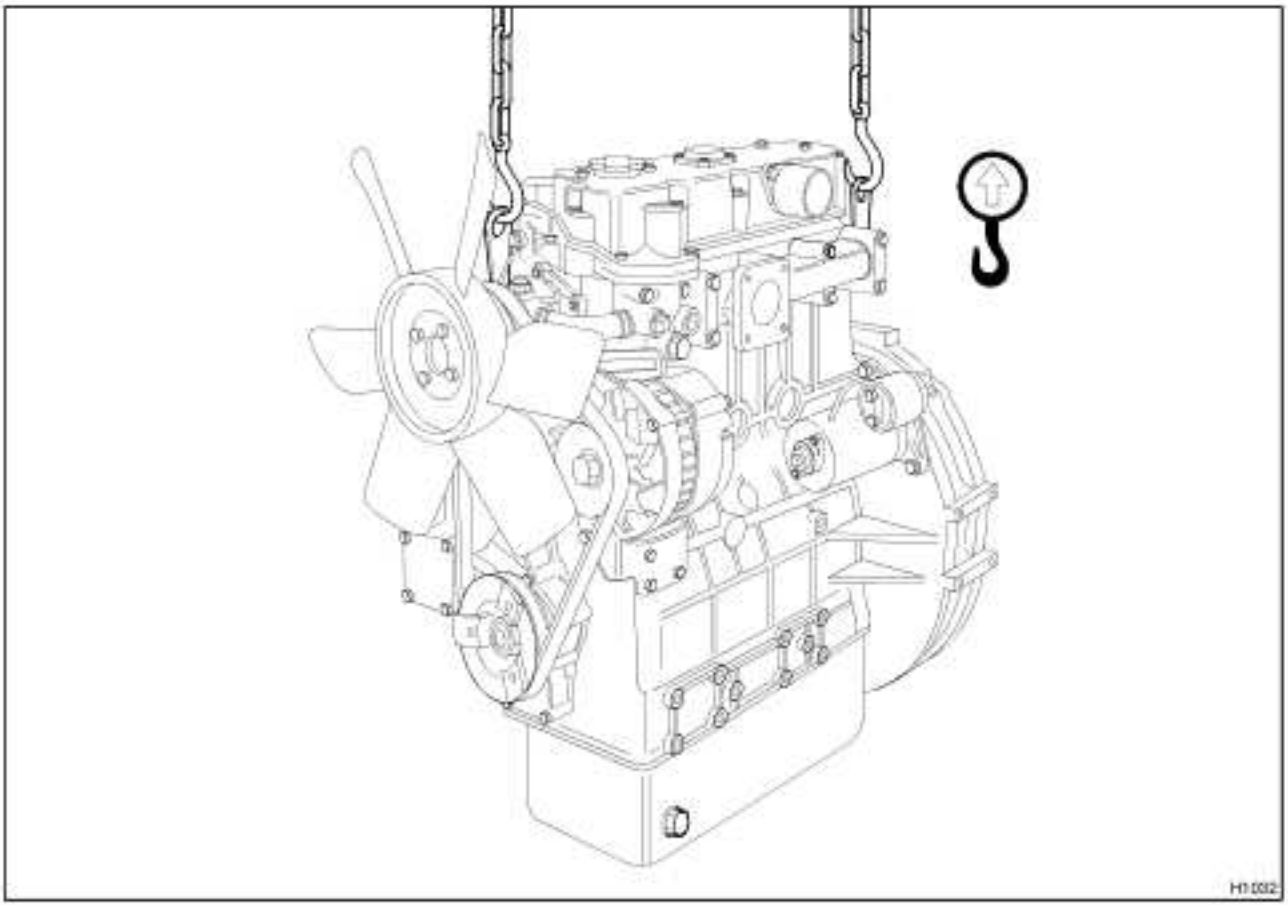
### Recommended torque: lifting eye bolts

| Engine | Nm (lbf ft) kgf m |
|---|---|
| All models | 26 (19) 2,6 |

### Maximum engine weights

| Engine | Engine specification | Maximum engine weights (dry) (1) |
|---|---|---|
| 403C-11 | Long flywheel housing specification | 114 kg |
| | Short flywheel housing specification | 96 kg |
| | Backplate specification | 87 kg |
| 403C-15 | Long flywheel housing specification | 176 kg |
| | Short flywheel housing specification | 154 kg |
| | Backplate specification | 150 kg |
| 404C-22 | Long flywheel housing specification | 220 kg |
| | Short flywheel housing specification | 196 kg |
| | Backplate specification | 184 kg |
| 404C-22T | Long flywheel housing specification | 230 kg |
| | Short flywheel housing specification | 206 kg |
| | Backplate specification | 194 kg |

(1) Engine may alter with final specification.






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## Wiring diagram - automatic shutdown 40 amp alternator - 403C-11

### Automatic shutdown operation symptoms

If the conditions below last for more than 10 seconds during the start operation, the engine will shut down.

If the conditions below last for more than 2 seconds while the engine is operated, the engine will shut down.

***Warning!*** *There is no protection against low water levels.*

### Conditions

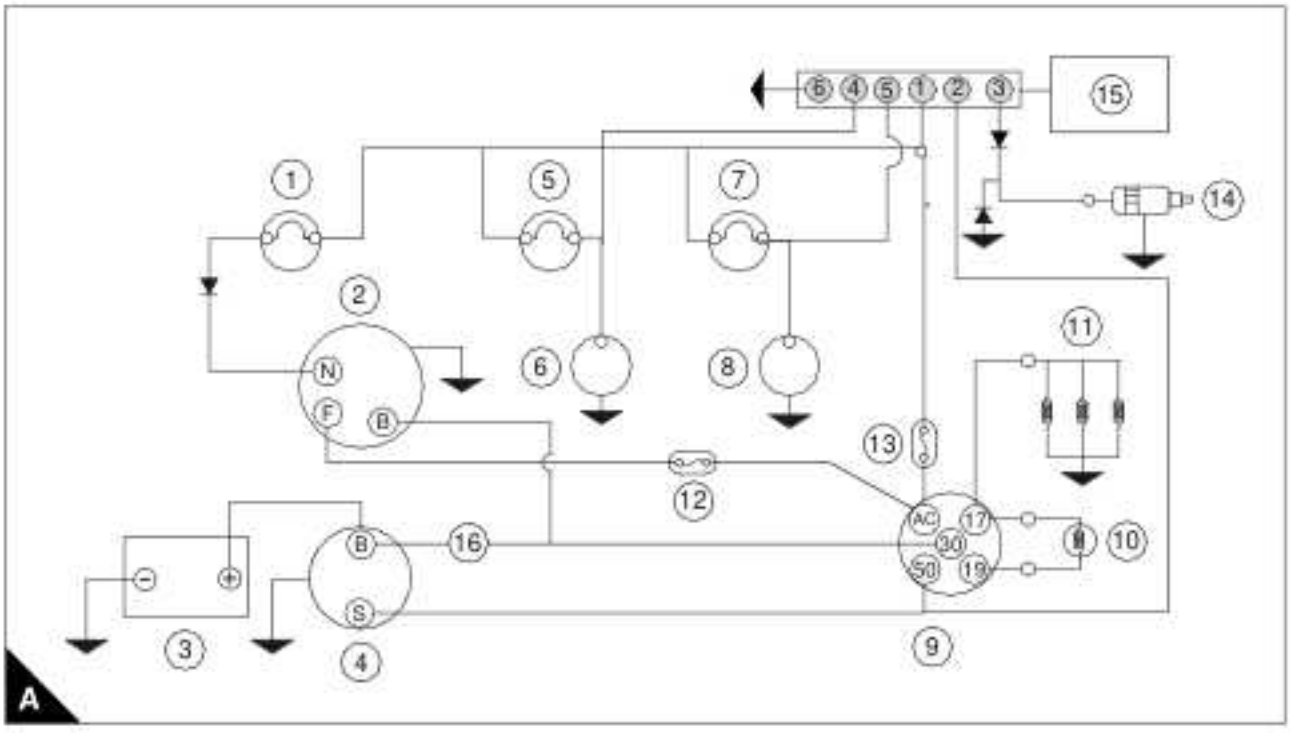
**Water temperature switch:** If the water temperature exceeds 105 °C ± 4 °C.

**Oil Pressure Switch:** If the oil pressure falls below 0,3 kgf/cm² (4.27 lbf/in²).

1 Alternator warning lamp
2 Alternator
3 Battery
4 Starter motor
5 Oil pressure warning lamp
6 Oil pressure switch (1)
7 Water temperature warning lamp
8 Thermostat switch
9 Key switch
10 Glow signal
11 Glow plugs
12 Fuse
13 Fuse
14 Solenoid switch
15 Automatic shutdown device
16 A delayed fuse can be fitted if desired

(1) Max current draw for standard oil pressure switch is 0.42 amps (5 Watt lamp max).

= Diode. Capacity: Current 3 amp. Reverse Voltage: 600V. **(This is mandatory)**.






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