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Engine

SERVICE MANUAL

Part number 47388346
English
May 2012
Replaces part number 84465357

CASE CONSTRUCTION

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Engine - General specification

F5CE9484E

Cycle	Diesel 4 strokes
Aspiration	Turbocharged
Injection	Direct
N. of cylinders	4 In-line
Bore	**99 mm (3.898 in)**
Stroke	**104 mm (4.094 in)**
Total displacement	**3202 cm³**
Compression ratio	17 : 1
Max. power	**57 kW (77 Hp) @ 2300 RPM**
Max. torque	**315 N·m (232 lb ft) @ 1400 RPM**
Loadless engine idling	**1100 - 1200 RPM**
Loadless engine peak	**2700 - 2800 RPM**

Engine - General specification

F5CE9484C

Cycle	Diesel 4 strokes
Aspiration	Turbocharged
Injection	Direct
N. of cylinders	4 In-line
Bore	**99 mm (3.898 in)**
Stroke	**104 mm (4.094 in)**
Total displacement	**3202 cm³**
Compression ratio	17 : 1
Max. power	**65 kW (88 Hp) @ 2300 RPM**
Max. torque	**340 N·m (251 lb ft) @ 1400 RPM**
Loadless engine idling	**1100 - 1200 RPM**
Loadless engine peak	**2700 - 2800 RPM**

Engine - General specification

F5AE9454A

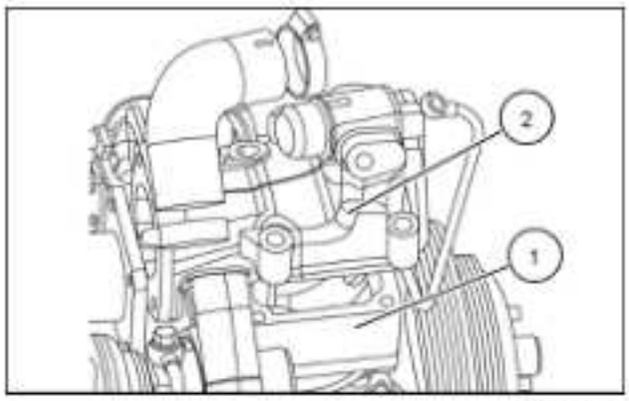
Cycle	Diesel 4 strokes
Aspiration	Turbocharged with intercooler
Injection	Direct
N. of cylinders	4 In-line
Bore	**99 mm (3.898 in)**
Stroke	**104 mm (4.094 in)**
Total displacement	**3202 cm³**
Compression ratio	17 : 1
Max. power	**44 kW (60 Hp) @ 2500 RPM**
Max. torque	**210 N·m (155 lb ft) @ 1400 RPM**
Loadless engine idling	**1100 - 1200 RPM**
Loadless engine peak	**2700 - 2800 RPM**

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Glow plug system Glow plug - Install

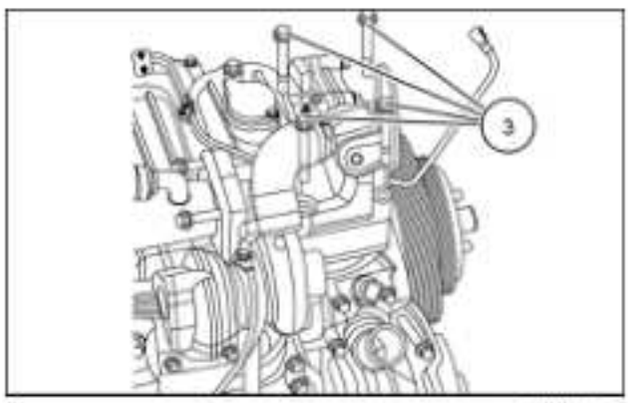
F5CE5454G*A001, F5CE5454B*A005, F5CE5454C*A003

1. Install the four new glow plugs and torque to **8 N·m** (**70.8 lb in**) before installing the air intake manifold.
2. Replace the gaskets and install the spacer **(1)** and air intake manifold **(2)**.



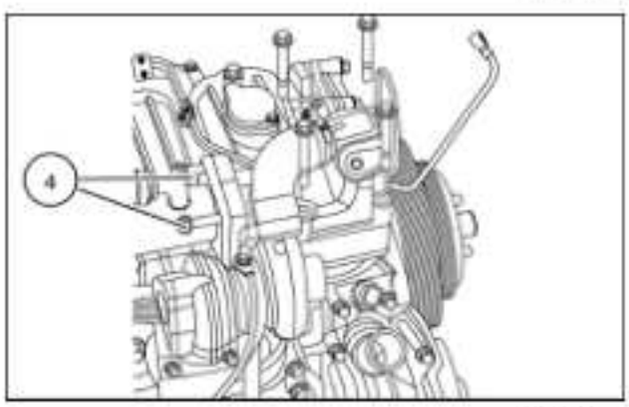
93111839 1

3. Install the four bolts **(3)** through the top of the air intake.



93111838 2

4. Install the four bolts **(4)** securing heat exchanger to the rear air intake flange.



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