F5AE5484A / F5AE9454A / F5AE9454D / F5AE9454J / F5AE9454L / F5AE9484A / F5AE9484B / F5AE9484G / F5AE9484K / F5CE5454B*A005 / F5CE5454B / F5CE5454C*A003 / F5CE5454G*A001 / F5CE9454C / F5CE9454E / F5CE9454G / F5CE9484C / F5CE9484E

Engine

SERVICE MANUAL

Part number 84465357

English

March 2011

Replaces part number 84283922

CASE CONSTRUCTION

MidWestTech | Case F5AE5484A, F5AE9454A, F5AE9454D, F5AE9454J, F5AE9454L, F5AE9484A, F5AE9484B, F5AE9484G, F5AE9484K, F5CE5454B*A005, F5CE5454B, F5CE5454C*A003, F5CE5454G*A001, F5CE9454C, F5CE9454E, F5CE9454G, F5CE9484C, F5CE9484E Engine Service Manual | Publication 84465357

Order the manual at mid-west-tech.com >

Contents

INTRODUCTION

ENGINE AND PTO IN ..... B

ENGINE B.10.A

FUEL AND INJECTION SYSTEM B.20.A

AIR INTAKE SYSTEM B.30.A

EXHAUST SYSTEM B.40.A

ENGINE COOLANT SYSTEM B.50.A

LUBRICATION SYSTEM B.60.A

STARTING SYSTEM B.80.A

MidWestTech | Case F5AE5484A, F5AE9454A, F5AE9454D, F5AE9454J, F5AE9454L... Order the manual at mid-west-tech.com >

Contents

INTRODUCTION

Foreword 3

Safety rules 4

Torque 6
F5CE5454B, F5CE9454C, F5CE9454E, F5CE9454G, F5CE9484C, F5CE9484E, F5CE5454G*A001, F5CE5454B*A005, F5CE5454C*A003

Torque 9
F5AE9454A, F5AE9454D, F5AE9484A, F5AE9484B, F5AE9484G, F5AE5484A, F5AE9454J, F5AE9454L, F5AE9484K

Special tools 12
F5CE5454B, F5CE9454C, F5CE9454E, F5CE9454G, F5CE9484C, F5CE9484E, F5CE5454G*A001, F5CE5454B*A005, F5CE5454C*A003

Special tools 18
F5AE9454A, F5AE9454D, F5AE9484A, F5AE9484B, F5AE9484G, F5AE5484A, F5AE9454J, F5AE9454L, F5AE9484K

MidWestTech | Case F5AE5484A, F5AE9454A, F5AE9454D, F5AE9454J, F5AE9454L... Order the manual at mid-west-tech.com >

Contents

ENGINE AND PTO IN - B

ENGINE B.10.A
F5AE5484A , F5AE9454A , F5AE9454D , F5AE9454J , F5AE9454L , F5AE9484A , F5AE9484B , F5AE9484G , F5AE9484K , F5CE5454B*A005 , F5CE5454B , F5CE5454C*A003 , F5CE5454G*A001 , F5CE9454C , F5CE9454E , F5CE9454G , F5CE9484C , F5CE9484E

FUEL AND INJECTION SYSTEM B.20.A
F5AE5484A , F5AE9454A , F5AE9454D , F5AE9454J , F5AE9454L , F5AE9484A , F5AE9484B , F5AE9484G , F5AE9484K , F5CE5454B*A005 , F5CE5454B , F5CE5454C*A003 , F5CE5454G*A001 , F5CE9454C , F5CE9454E , F5CE9454G , F5CE9484C , F5CE9484E

AIR INTAKE SYSTEM B.30.A
F5AE5484A , F5AE9454A , F5AE9454D , F5AE9454J , F5AE9454L , F5AE9484A , F5AE9484B , F5AE9484G , F5AE9484K , F5CE5454B*A005 , F5CE5454B , F5CE5454C*A003 , F5CE5454G*A001 , F5CE9454C , F5CE9454E , F5CE9454G , F5CE9484C , F5CE9484E

EXHAUST SYSTEM B.40.A
F5AE5484A , F5AE9454A , F5AE9454D , F5AE9454J , F5AE9454L , F5AE9484A , F5AE9484B , F5AE9484G , F5AE9484K , F5CE5454B*A005 , F5CE5454B , F5CE5454C*A003 , F5CE5454G*A001 , F5CE9454C , F5CE9454E , F5CE9454G , F5CE9484C , F5CE9484E

ENGINE COOLANT SYSTEM B.50.A
F5AE5484A , F5AE9454A , F5AE9454D , F5AE9454J , F5AE9454L , F5AE9484A , F5AE9484B , F5AE9484G , F5AE9484K , F5CE5454B*A005 , F5CE5454B , F5CE5454C*A003 , F5CE5454G*A001 , F5CE9454C , F5CE9454E , F5CE9454G , F5CE9484C , F5CE9484E

LUBRICATION SYSTEM B.60.A
F5AE5484A , F5AE9454A , F5AE9454D , F5AE9454J , F5AE9454L , F5AE9484A , F5AE9484B , F5AE9484G , F5AE9484K , F5CE5454B*A005 , F5CE5454B , F5CE5454C*A003 , F5CE5454G*A001 , F5CE9454C , F5CE9454E , F5CE9454G , F5CE9484C , F5CE9484E

STARTING SYSTEM B.80.A
F5AE5484A , F5AE9454A , F5AE9454D , F5AE9454J , F5AE9454L , F5AE9484A , F5AE9484B , F5AE9484G , F5AE9484K , F5CE5454B*A005 , F5CE5454B , F5CE5454C*A003 , F5CE5454G*A001 , F5CE9454C , F5CE9454E , F5CE9454G , F5CE9484C , F5CE9484E

MidWestTech | Case F5AE5484A, F5AE9454A, F5AE9454D, F5AE9454J, F5AE9454L... Order the manual at mid-west-tech.com >

ENGINE - General specification

F5CE5454C*A003

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	**67 kW (90 Hp) @ 2500 RPM**
Max. torque	**340 N·m (251 lb ft) @ 1400 RPM**
Loadless engine idling	**1150 RPM +/- 25 RPM**
Loadless engine peak	**2750 RPM +/- 25 RPM**

ENGINE - General specification

F5AE5484A

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	**70 kW (95.2 Hp) @ 2300 RPM**
Max. torque	**380 N·m (280.3 lb ft) @ 1400 RPM**
Loadless engine idling	**850 - 50 RPM**
Loadless engine peak	**2540 - 50 RPM**

ENGINE - General specification

F5AE9454J

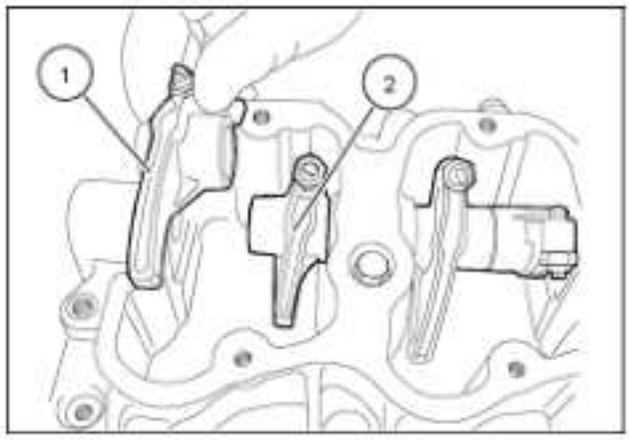
Cycle	Diesel 4 strokes
Aspiration	Turbocharged
Injection	Direct
N. of cylinders	4 In-line
Bore	**99 mm (3.898 in)**
Stroke	**104 mm (4.094 in)**
Total displacement	**3202 cm³**
Compression ratio	17 : 1
Max. power	**41 kW (55.7 Hp) @ 2300 RPM**
Max. torque	**221 N·m (163.0 lb ft) @ 1400 RPM**
Loadless engine idling	**850 - 50 RPM**
Loadless engine peak	**2540 - 50 RPM**

MidWestTech | Case F5AE5484A, F5AE9454A, F5AE9454D, F5AE9454J, F5AE9454L... Order the manual at mid-west-tech.com >

Rocker assembly Rocker arm - Install

Prior operation:
Rocker assembly Rocker arm - Remove (B.10.A)

1. Fit the rocker arms onto the shaft.
2. The intake arms (short) **(2)** goes on first, and then the exhaust arms (long) **(1)**.



T3002788 1

Next operation:
Rocker assembly Housing - Install (B.10.A)

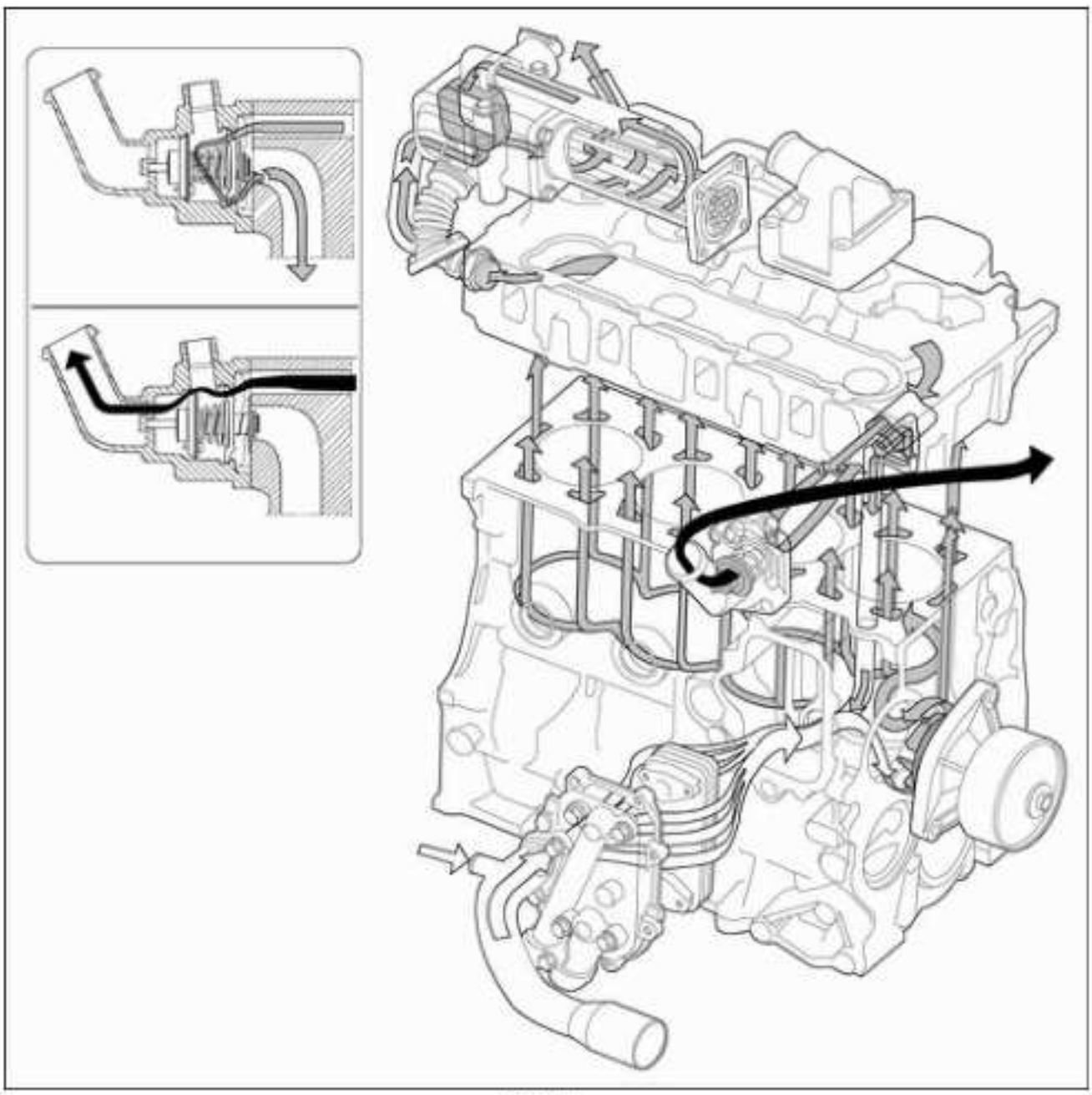
MidWestTech | Case F5AE5484A, F5AE9454A, F5AE9454D, F5AE9454J, F5AE9454L... Order the manual at mid-west-tech.com >

ENGINE COOLANT SYSTEM - Overview

F5CE5454B, F5CE9454C, F5CE9454E, F5CE9454G, F5CE9484C, F5CE9484E, F5CE5454G*A001, F5CE5454B*A005, F5CE5454C*A003

The closed circuit forced circulation engine cooling system is composed of the following parts:

- expansion tank: position, form and dimensions may vary depending on the engine fitting
- radiator dissipating the heat absorbed by the engine cooling liquid. This component's position and dimensions may vary depending on the application
- fan increasing the radiator's cooling power. This component may vary depending on the application
- heat exchanger cooling the lubricant oil. This component may vary depending on the application
- centrifugal water pump positioned in the front part of the engine block
- thermostat controlling cooling liquid circulation



7392742 1

ENGINE COOLING SYSTEM DIAGRAM

MidWestTech | Case F5AE5484A, F5AE9454A, F5AE9454D, F5AE9454J, F5AE9454L... Order the manual at mid-west-tech.com >