# CASE Engines 668T/M2 and 668T/E2

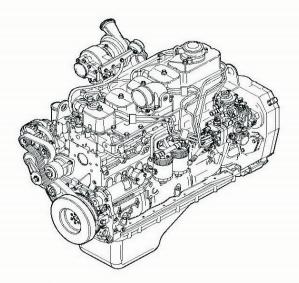
Service Manual

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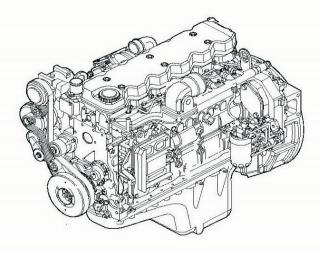


# REPAIR MANUAL FOR ENGINES F4GE0684F - (668T/M2) F4HE0684J - (668T/E2)

6-47950NA



F4GE0684F



F4HE0684J

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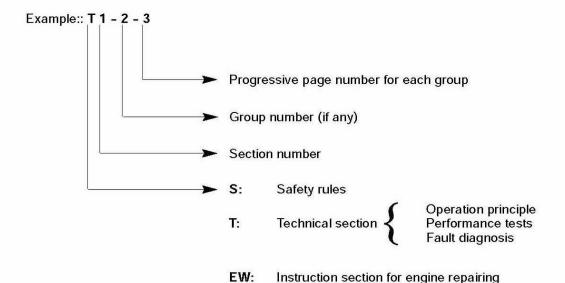
#### TO THE READER

- This manual was written for a skilled technician and contains all the technical information needed to repair this vehicle.
- Read this manual carefully for the information concerning repairing operations.

#### **FURTHER REFERENCES**

#### **PAGE NUMBER**

☐ Every page carries a number on the top right corner. Every page contains the following information:



#### **SYMBOLS**

This manual contains safety warning symbols and indications referring to possible injuries or vehicle damages.



This symbol regards safety.

Use great care when you see this symbol because possible injuries to the personnel may occur. Strictly observe the precautions marked with this symbol.

The safety warning symbol is used also to draw attention on the weight of a component or an element. Make sure you are always using the right equipment and lifting techniques when handling heavy loads, in order to prevent injuries or damages.

# **ENGINES** F4GE0684F - F4HE0684J OVERHAUL



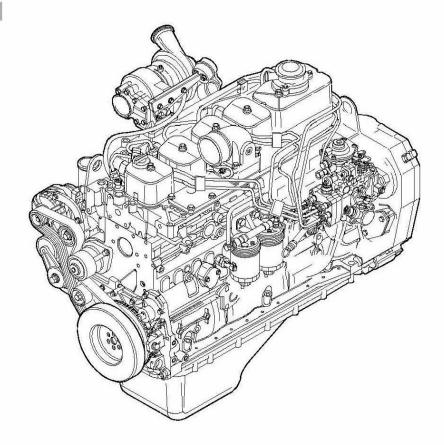
### **INDEX**

mben			
Engine coding	EW-3-4	Engine F4GE0684F cooling	EW-3-43
Main engine features	EW-3-5	Engine F4HE0684J cooling	EW-3-44
Assembling play / specifications	EW-3-8	Water pump	EW-3-45
Tightening torque	EW-3-14	Engine F4GE0684F mechanic	
Tools	EW-3-15	injection feeding system	EW-3-46
Graphic indications and symbols	EW-3-16	Fuel prefilter	EW-3-46
General remarks	EW-3-17	Fuel filters	EW-3-46
Engine F4GE0684F	EW-3-17	Mechanic fuel pump	EW-3-47
Engine F4HE0684J	EW-3-18	Engine F4GE0684F Injection	
Description of main mechanic		assembly	EW-3-48
engine components	EW-3-19	Engine F4HE0684J fuel supply	
Crankcase	EW-3-19	system	EW-3-49
Drive shaft	EW-3-20	Engine F4HE0684J fuel system	
Drive shaft seal rings	EW-3-20	diagram	EW-3-50
Connecting rods	EW-3-21	Fuel prefilter	EW-3-51
Pistons	EW-3-22	Fuel filter	EW-3-52
Distributing shaft	EW-3-23	Mechanical feed pump	EW-3-53
Engine F4GE0684F valve control	EW-3-24	Normal operating condition	EW-3-53
Engine F4HE0684J valve control	EW-3-25	Outlet overpressure condition	EW-3-53
Engine F4GE0684F cylinder head	EW-3-26	Bleed conditions	EW-3-54
Engine F4GE0684F cylinder head	EW-3-27	High pressure pump	EW-3-54
Engine F4GE0684F valves and valve		Operating principle	EW-3-56
seats	EW-3-28	Engine F4GE0684F bench-overhaul	EW-3-59
Engine F4HE0684J valves and valve	00	Disassembling the engine	EW-3-59
seats	EW-3-29	Replacing the seal ring	EW-3-62
Engine F4GE0684F valve guides	EW-3-30	Removing the injection pump	EW-3-62
Engine F4HE0684J valve guides	EW-3-31	Removing the rocker arm assembly	EW-3-65
Valve control bridges	211 0 01	Repair work on cylinder cluster	EW-3-67
F4HE0684J	EW-3-31	Checks and measurements	EW-3-67
Grinding cylinder head valve seats F 4HE0684J	EW - 3 - 31	Checking the surface supporting the	F144 0 00
Engine flywheel	EW-3-32	head on the cylinder cluster	EW-3-68
Engine F4GE0684F auxiliary component	L *	Valve gear	EW-3-69
drive	EW-3-33	Distributing shaft	EW-3-69
Engine F4HE0684J auxiliary component	LVV-0-00	Checking the eccentric lift and the pin	EW 0.00
drive	EW-3-34	alignment	EW-3-69
Engine F4GE0684F Lubrication	EW-3-35	Bushings	EW-3-70
Engine F4HE0684J Lubrication	EW-3-36	Replacing the bushings	EW-3-71
Heat exchanger	EW-3-37	Tappets	EW-3-71
Oil pump	EW-3-38	Mounting the tappets – Distributing shaft	EW-3-71
Engine F4GE0684F oil sump	EW-3-39	Drive shaft	EW-3-72
Engine F4HE0684J oil sump	EW-3-40	Measuring the journals and crankpins .	EW-3-72
Engine F4GE0684F oil vapour	L44-0-40	Replacing the oil pump drive gears Mounting the main bearings	EW-3-75
recirculation	EW-3-41	[ [ [ [ [ [ [ [ [ [ [ [ [ [ [ [ [ [ [	EW-3-75 EW-3-75
Engine F4HE0684J oil vapour	LVV-3-41	Measuring the journal assembling play	EW-3-75 EW-3-76
[ ]	EW-3-42	Connecting rod-piston assembly	EW-3-76
recirculation	EVV-3-42	Connecting rod-piston assembly	EVV-3-11

# **INDEX**

		Series develop in the Property of the Control of th	
Pistons	EW-3-78	Cam lift check and pin alignment check	EW-3-113
Measuring the piston diameter	EW-3-78	Bushes	EW-3-113
Piston pins	EW - 3 - 79	Head face check on the cylinder group	EW-3-115
Conditions for correct pin/piston		Timing system	EW-3-115
matching	EW-3-79	Camshaft	EW-3-115
Dioton ringo	EW-3-79		
Piston rings		Bush replacement	EW-3-116
Connecting rods	EW-3-80	Tappets	EW-3-116
Bushings	EW-3-81		
Dustings		Fitting tappets – camshaft	EW-3-116
Checking the connecting rods	EW-3-81	Output shaft	EW-3-117
Checking the torsion	EW-3-81		
Chapting the flexion		Measuring journals and crankpins	EW-3-117
Checking the flexion	EW-3-81	Replacing oil pump control gear	EW-3-119
Mounting the connecting rod-piston			
	EW-3-82	Fitting main bearings	EW-3-119
assembly		Finding journal clearance	EW-3-119
Connecting rod-piston match	EW-3-82		LVV-0-113
Mounting the piston rings	EW-3-82	Checking output shaft shoulder	
Marking the pistorrings	LVV 0 02	clearance	EW-3-120
Mounting the connecting rod/piston			
assemblies in the cylinder liners	EW-3-83	Connecting rod - piston assembly	EW-3-120
		Pistons	EW-3-121
Measuring the crankpin assembling play		La Constitution of the con	
Checking piston protrusion	EW-3-84	Measuring piston diameter	EW-3-121
Valve gear	EW-3-85	Piston pin diameter	EW - 3 - 122
D' 1'1 1'			9 122
Distribution gearbox case	EW-3-85	Conditions for proper pin-piston	
Valve timing	EW-3-85	coupling	EW-3-122
Injection number 1 at above			
Injection pump – 1st phase	EW-3-86	Split rings	EW-3-122
Timing	EW-3-86	Connecting rods	EW-3-123
Flywheel cover case	EW-3-87		
Tywheel cover case		Bushes	EW-3-123
Engine flywheel	EW-3-88	Checking torsion	EW-3-124
Replacing the engine flywheel ring gear	EW-3-88		EW-3-124
Injection pump – 2nd phase	EW-3-89	Checking connecting rods	
	LVV-0-03	Checking bending	EW-3-124
Mounting the injection pump –		Fitting connecting rod-piston assembly	EW-3-124
2nd phase	EW-3-89		
Mounting the oil and water pumps	EW-3-89	Connecting rod-piston coupling	EW-3-124
Modriting the oil and water pumps		Fitting split rings	EW-3-125
Mounting the oil sump	EW-3-90	Fitting connecting rod-piston assembly	
Mounting the water / oil heat exchanger	EW-3-91		E144 0 10E
Cylinder head	EW-3-92	into cylinder barrels	EW-3-125
Cylinder head		Finding crankpin clearance	EW-3-126
Removing the valves	EW-3-92	Charling minten protection	
Checking the cylinder head supporting		Checking piston protrusion	EW-3-127
surface	EW-3-93	Timing	EW-3-128
Observation and the servation of the ser	THE REPORT OF THE PARTY OF THE	Flywheel housin	EW-3-128
Checking the cylinder head water seal.	EW-3-93	Tiywileerilousiir	
Valves	EW-3-93	Engine flywheel	EW-3-129
Valve descaling, check and grinding	EW-3-94	Replacing engine flywheel ring gear	EW-3-129
valve descaling, check and girliding	LVV-0-3+		
Checking the play between the valve		Cylinder head	EW-3-133
stem, valve guide and valve centring	EW-3-94	Removing the valves	EW-3-133
Valve guide	EW-3-94	Removing carbon deposits, checking	
Valve seets			EM O JOE
Valve seats	EW-3-94	and grinding valves	EW-3-135
Valve seat reconditioning - replacement	EW-3-94	Checking cylinder head supporting	
Valve springs	EW-3-96	surface	EW-3-134
		Sandoc	
Mounting the cylinder head	EW-3-96	Valves	EW-3-135
Reattaching the cylinder head	EW-3-96	Removing carbon deposits, checking	
Rocker arm assembly	EW-3-97		EM 0 405
Mounting the injectors	EW-3-98	and grinding valves	EW-3-135
Mounting the injectors		Checking clearance between valve	
Replacing the injectors	EW-3-101	stem and valve guide and valve	
Removal	EW-3-101		EM 0 105
Reassembling	EW-3-101	centering	EW-3-135
		Valve guide	EW-3-135
Adjusting the tappets	EW-3-103		
Rocker arm removal/reassembling	EW-3-103	Valve seats	EW-3-136
		Regrinding – replacing the valve seats .	EW-3-136
Removal	EW-3-103	Valve springs	EW-3-137
Reassembling	EW-3-103	vaive springs	
Valve timing	EW-3-103	Fitting cylinder head	EW-3-138
Removal of EDC7 components	0 100	Refitting the cylinder head	EW-3-138
	ENAL OF LOS		
F4HE0684J	EW-3-104	Fitting injectors	EW-3-139
Disassembly of the engine	EW-3-104	Rods	EW-3-140
	EW-3-113	Rocker assembly	
Repair interventions			
Cylinder group	EW-3-113	Tappet clearance adjustment	EW-3-141
Controls and measurements	EW-3-113	Harness support	EW - 3 -143

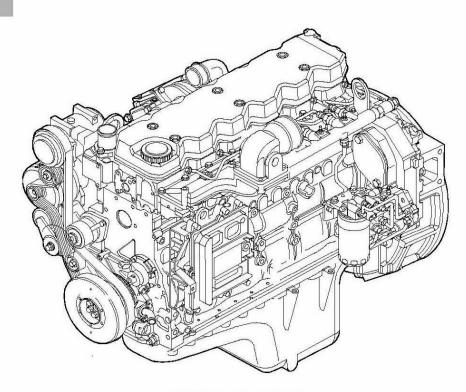
## Figure 1



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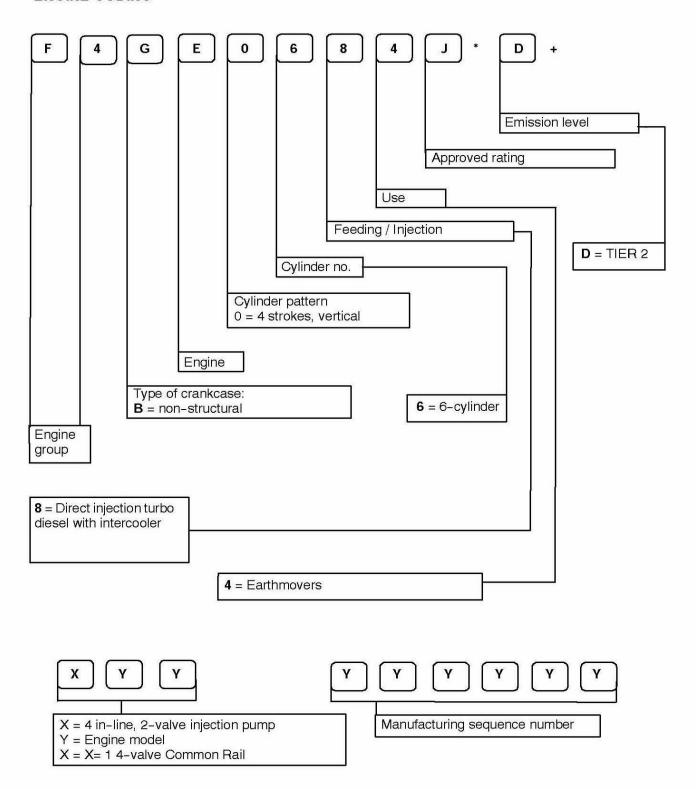
ENGINE F4GE0684F

# Figure 2



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#### **ENGINE CODING**

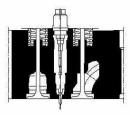


### **MAIN ENGINE FEATURES**

$\square$	LW130.B	LW170.B		
$\square$	F4GE0684F	F4HE0684J		
c	*D601	*D100		
E	6728 cm <sup>3</sup>			
F	110 kW 2000 rpm	145 kW 2000 rpm		



Direct injection





In-line injection pump



#### T.A.A. (Boosted by intercooler)

- A Wheeled loaders
- B Type of engine
- C Engine model
- **D** Number of cylinders
- E Total displacement
- F Max. power currently available
- G Type of injection
- H Injection system
- I Air supply system

# – ENGINE F4GE0684F - F4HE0684J OVERHAUL –

# **MAIN ENGINE FEATURES**

	Tuno		F4GE6484F	F4HE6484J
1 -1 -1	Type	pe –		*D100
<b>A</b> :	Cycle		4-stroke di	esel engine
ΙΛ	Feeding	-	Boosted by intercooler	
	Injection		Direct	
	Number of cylinders		In-line, 6-cylinder	
Ø	Bore	mm	11042	
7.5	Stroke	mm	132	
	Total displacement	cm <sup>3</sup>	6728 cm <sup>3</sup>	
Q	Compression ratio			
	Max. rating	kW min <sup>-1</sup>	110 2000	145 2000
	Max. torque	Nm (kgm) min <sup>-1</sup>	675 1400	850 1400
	No-load idle rpm	min <sup>-1</sup>	700	
	No-load peak rpm	pad peak rpm min -1 -		
ĪM	BOOSTING		With intercooler	
4	Type of turbocompressor:		HOLSET HX35W	
LUBRICATION			Forced by means of gear pump, pressure relief valve, oil filter	
bar	Oil pressure with hot eng at idle rpm at peak rpm	jine: bar bar		.2

# - ENGINE F4GE0684F - F4HE0684J OVERHAUL —

		_		F4GE0684F	F4HE0684J
	Type		•	*D601	*D100
COOLI	NG			By 1	luid
		Water pump drive:		By means of belt	
		Thermostat: start of opening:	°C	81 ± 2	
		REFUELLING	500		
	Ambra Super Gold 15W40	Full filling capacity 1°	litres kg	=	
	10 <b>W</b> 30	- engine sump	litres	_	
			kg		
		<ul> <li>engine sump + filter</li> </ul>	litres		
-			kg		
		FEEDING Bosch-type injection		VE6/12F9000 L968	High pressure Common Rail
	a a	Pump setting		0° ± 0°.5	
	X	Start of delivery	mm	1	
		Type of nozzle		DSLA 145 P1174	Electro-injectors
		Injection sequence		1 - 5 - 3 -6 -2 - 4	
	bar	Injection pressure bar		245 bar	250 - 1450 bar

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