SERVICE MANUAL

SKIDSTEER LOADER
225, 225T, 260, 260T, 280, 300, 300T, 320T, 325T, 330

EN - 9813/5150 - ISSUE 2 - 09/2018

This manual contains original instructions, verified by the manufacturer (or their authorized representative).

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Foreword

The Operator's Manual

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You and others can be killed or seriously injured if you operate or maintain the machine without first studying the Operator's Manual. You must understand and follow the instructions in the Operator's Manual. If you do not understand anything, ask your employer or JCB dealer to explain it.

Do not operate the machine without an Operator's Manual, or if there is anything on the machine you do not understand.

Treat the Operator's Manual as part of the machine. Keep it clean and in good condition. Replace the Operator's Manual immediately if it is lost, damaged or becomes unreadable.

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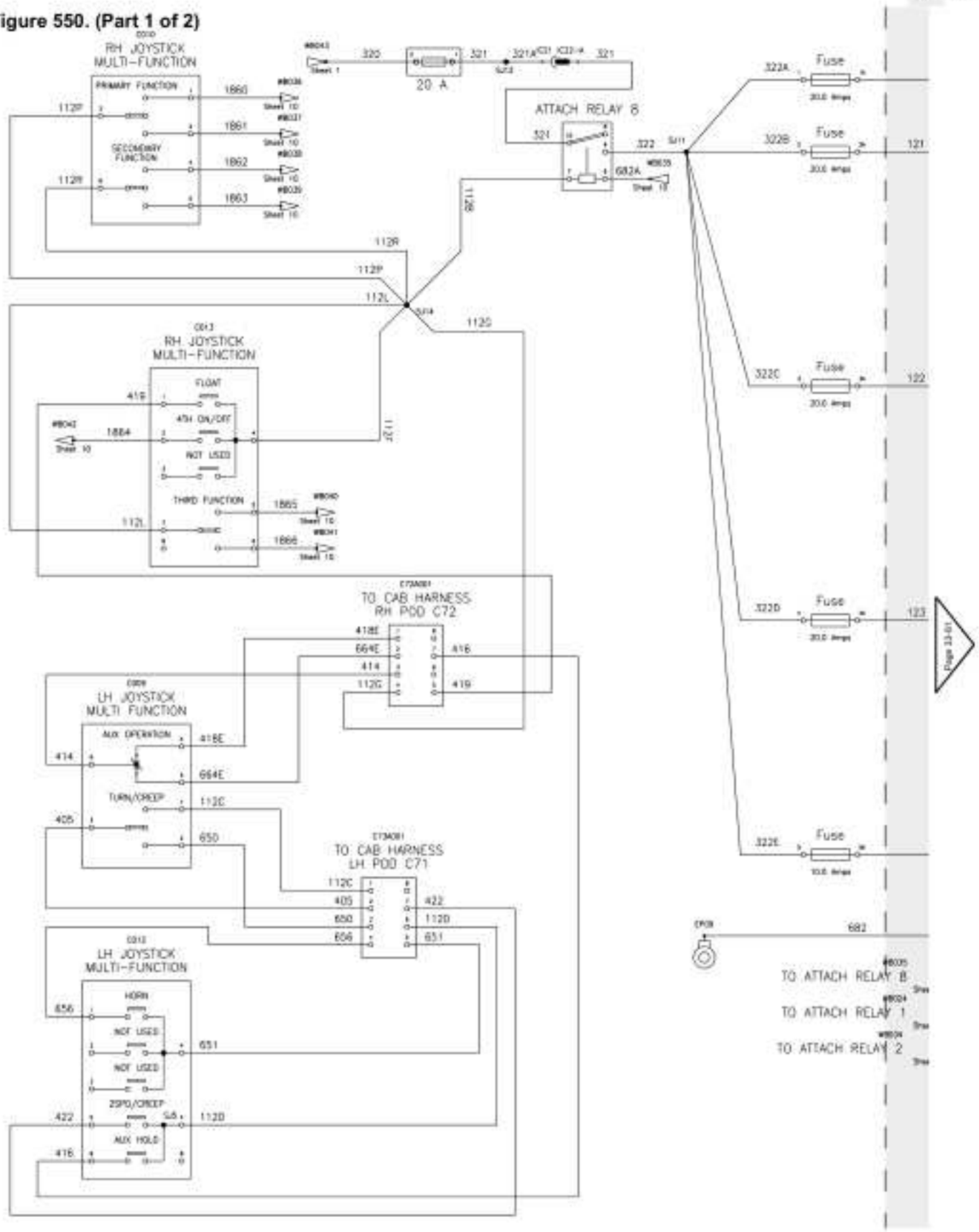
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Figure 550. (Part 1 of 2)



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Fault Codes, Introduction, Malfunction Indicator Light (MIL). Refer to: PIL 33-57-90.

Fault Code log

The fault code log can be read on the instrument panel LCD (Liquid Crystal Display). Alternatively use the JCB Servicemaster diagnostics tool.

Read the fault code log on the instrument panel LCD via the service menu. Use JCB Servicemaster and a laptop computer connected to machine CANbus to see the codes.

Technical Data

(For: 225 [T3 GE0], 225T [T3 GE0], 260 [T3 GE0], 260T [T3 GE0], 280 [T3 GE0], 300 [T3 GE0], 300T [T3 GE0], 320T [T3 GE0], 330 [T3 GE0])

This machine has no diagnostic capability and therefore there are no fault codes.

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Technical Data

(For: 225T [T3 GE0], 225T [T4F GE0], 260 [T3 GE0], 260 [T4F GE0], 260T [T3 GE0], 260T [T4F GE0], 280 [T3 GE0], 280 [T4F GE0], 300 [T3 GE0], 300 [T4F GE0], 300T [T3 GE0], 300T [T4F GE0], 320T [T3 GE0], 320T [T4F GE0], 330 [T3 GE0], 330 [T4F GE0], 2427501-2428800)

JCB recommend that you use the JCB lubricants shown as they have been verified by JCB for use on JCB machines. However, you could use other lubricants that are equivalent to the JCB standards and quality or offer the same machine component protection.

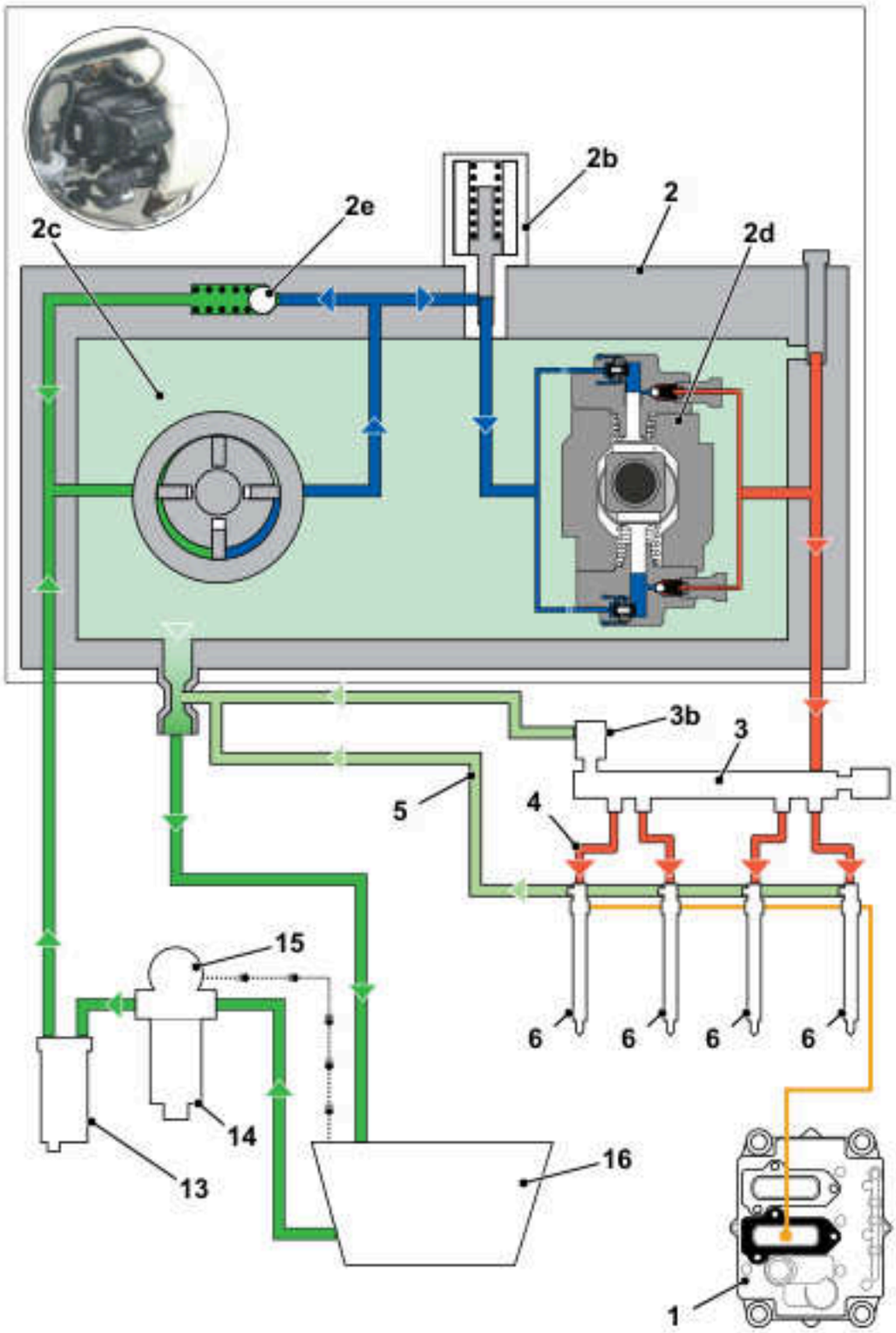
Table 282. Machines with JCB Ecomax Engines

Item	Capacity	Fluid/Lubricant	JCB Part Number	Container Size(1)	Specification
Fuel tank	103.3L	Diesel oil			
Engine (oil)	Minimum 12LMaximum 15L	JCB Engine Oil Ultimate Performance 10W30 -30°C (-22°F) and below 46°C (115°F))	T4F - 4001/3005	20L	API CJ-4
		JCB Engine Oil Ultra Performance 5W40 -30°C (-22°F) and below 46°C (115°F))	T3/T4i - 4001/2705	20L	API CH-4
Engine (coolant)	22L	JCB Antifreeze HP	4006/1120	20L	ASTM D3306, ASTM D4985, ASTM D6210, SAE (Society of Automotive Engineers) J1034, BS6580 (1992), AFNOR NF R15-601
Hydraulics	System total55L	JCB Optimum Performance hydraulic fluid 46	4002/2003	200L	
		JCB Bio Hydraulic fluid 46 (if required)	4002/2603	200L	
Chain cases	23.3L	JCB Engine Oil EP 15W40	4001/1805	20L	
Grease points		JCB HP Grease or JCB Special MPL EP Grease	4003/2017	24 x 0.4kg cartridges	
Window washer tank	2.8L	Screenwash	4006/0504	1L	Protects system from freezing to -29°C (-20°F)

(1) For information about the different container sizes that are available (and their part numbers), contact your JCB dealer.

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Figure 302.



1 ECM
2b IMV
2 Fuel high pressure pump
2c Fuel high pressure pump (transfer section)

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Component Identification

(For: JCB Tier 4i /T4F <55kW Engine 4 Cyl)

Figure 426.



A Thermostat

Operation

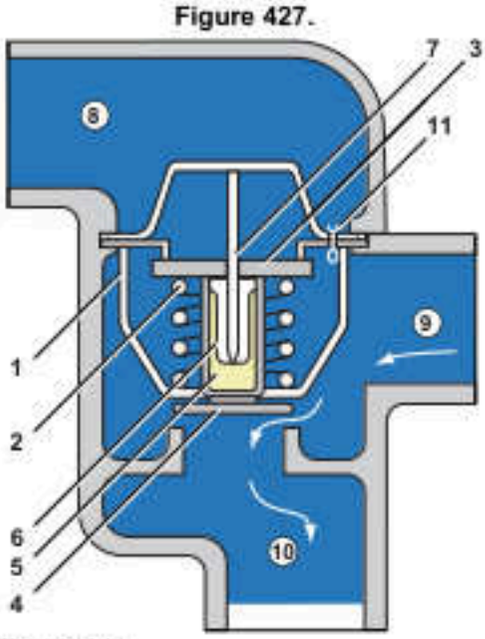
(For: JCB Tier 4i /T4F <55kW Engine 4 Cyl)

The thermostat is a wax element type and is configured for by-pass blanking. The thermostat functions as follows:

State A - Closed (Engine Cold)

When the engine is cold the wax pellet has contracted into its housing. This allows the spring to act against the thermostat body and move the valve plate up against its seat, closing the outlet port to the radiator. Since the bottom valve plate is connected to the top valve plate it also moves up, opening the bypass port. The coolant flows from the thermostat housing inlet port into the bypass gallery.

Figure 427.



1 Thermostat
2 Spring
3 Top valve plate
4 Bottom valve plate
5 Wax pellet
6 Diaphragm
7 Actuating rod
8 Outlet port to the radiator top hose
9 Inlet port thermostat housing
10 Outlet port bypass gallery
11 1mm diameter orifice

State B - Open (Engine Hot)

When the engine is hot, the wax pellet melts, as it does so it expands and pushes against the diaphragm. The diaphragm reacts against the actuating rod and both the top and bottom

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