SERVICE MANUAL

6TFT, 6TST

EN - 9813/5300 - ISSUE 1 - 09/2015

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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Fault-Finding

Table 208. Battery fault

Cause	Remedy
Battery Voltage	Switch on the ignition key and check the battery voltage with a multimeter. If the specific gravity of the battery is below 9 volt and above 16 volt, charge or replace the battery.
Battery connection fault	Disconnect the electrical connection from the battery. Check for signs of corrosion or contamination in the battery terminals, clean the terminals. Repair as necessary.
	If no fault is found proceed to ECM (Engine Control Module) connection faulty.
ECM connection faulty	Disconnect the harness from ECM and inspect. Check seals are in place, check for signs of corrosion or contamination.
	If ECM pins are damaged, replace ECM and re-flash appropriate calibration (see Re-flashing an ECM).
	If harness is damaged, repair or replace as necessary.
	Check the resistance between the vehicle chassis ground and ECM ground, if the resistance is high repair the ECM ground.
	If no fault is found proceed to 'Battery charge circuit fault'.
Battery charge circuit fault	Check the battery charge circuit, if the circuit is found faulty repair as necessary.
	If no fault is found raise a Techweb Helpdesk call.

Table 209. General Relay Fault

Cause	Remedy
Relay supply voltage fault	Perform the relay test routine.
	If relay supply voltage is found fault, proceed to 'Relay connection faulty'.
	If relay supply voltage is OK, raise Techweb Helpdesk Call.
Relay connection faulty	Check the condition of relay to harness connection, make sure the seals are in place, check for signs of corrosion or contamination. Repair/replace as necessary.
	If no fault is found, proceed to ECM connection fault.
ECM connection fault	Disconnect the harness from engine ECM and inspect. Check seals are in place, check for signs of corrosion or contamination.
	If ECM pins are damaged, replace ECM and re-flash appropriate calibration (see Re-flashing an ECM).
	If harness is damaged, repair or replace as necessary.
	Check the continuity and electrical insulation, repair or replace as necessary.
	If a relay fault is found, raise Techweb Helpdesk Call.

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Fault Code	Cause	Remedy
C241	Short circuit to negative connection at Crowd Solenoid	Check Crowd Solenoid
C242	Short circuit to negative connection at Dump Solenoid	Check Dump Solenoid
C243	Short circuit to negative connection at Float Transducer	Check Float Transducer
C244	Short circuit to negative connection at Lower Solenoid	Check Lower Solenoid
C245	Short circuit to negative connection at Transmission X1F Solenoid	Check Transmission X1F Solenoid
C246	Short circuit to negative connection at Park brake Transducer	Check Park brake Transducer
C247	Short circuit to negative connection at Transmission X2F Solenoid	Check Transmission X2F Solenoid
C250	Short circuit to negative connection at Raise Solenoid	Check Raise Solenoid
C251	Short circuit to negative connection at Transmission X1R Solenoid	Check Transmission X1R Solenoid
C252	Short circuit to negative connection at Transmission X2R Solenoid	Check Transmission X2R Solenoid
C256	Short circuit to negative connection at Starter relay	Check Starter relay
C257	Short circuit to negative connection at Reverse Alarm	Check Reverse Alarm
C258	Short circuit to negative connection at Brake Light	Check Brake Light
C271	Short circuit to negative connection at Auxiliary Roller	Check Auxiliary Roller
C285	Short circuit to negative connection at D+ Terminal	Check D+ Terminal
C296	Short circuit to negative connection at SRS Solenoid 2	Check SRS Solenoid 2
C297	Short circuit to negative connection at SRS Solenoid 3	Check SRS Solenoid 3
C298	Short circuit to negative connection at Reversing Fan Solenoid	Check Reversing Fan Solenoid
C316	Open circuit at Fan Solenoid	Check Fan Solenoid
C317	Open circuit at High Flow Solenoid	Check High Flow Solenoid
C319	Open circuit at Parallel Lift Solenoid	Check Parallel Lift Solenoid
C325	Open circuit at Implement Pilot Solenoid	Check Implement Pilot Solenoid
C326	Open circuit at Auxiliary A Solenoid	Check Auxiliary A Solenoid
C327	Open circuit at Auxiliary B Solenoid	Check Auxiliary B Solenoid
C330	Open circuit at Quick Hitch A	Check Quick Hitch A
C331	Open circuit at Quick Hitch B	Check Quick Hitch B
C334	Open circuit at SRS Solenoid 1	Check SRS Solenoid 1
C335	Open circuit at Two-Speed Solenoid	Check Two-Speed Solenoid
C336	Open circuit at LH Turn signal	Check LH Turn signal
C337	Open circuit at RH Turn signal	Check RH Turn signal
C340	Open circuit at Transmission Pilot Solenoid	Check Transmission Pilot Solenoid

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Introduction

All sealants should be used at all times in line with the manufacturer's recommendations. Sealants are used mainly for the sealing of screwed joints, sealing flanges and flat surfaces and where gap filling properties are required.

Types of sealant

Various types of sealant are specified in JCB Standards:

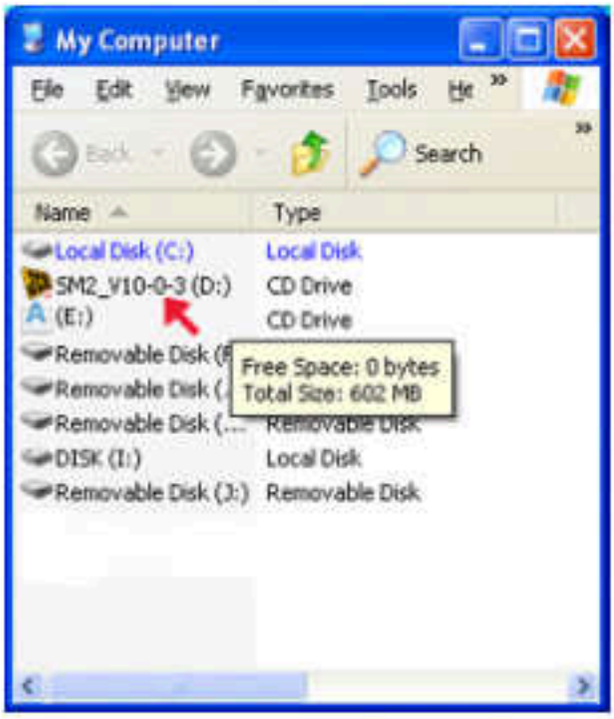
1. Those for the sealing of screwed joints.
2. Sealants for joining flanges and flat surfaces. (Flange size and likelihood of dismantling require consideration when selecting this type of sealant).
3. Sealants for use where gap filling properties are required. (The gap dimensions, joint movement if any, type of materials being joined and aesthetic appearance require consideration when selecting this type of sealant).

Approved sealants

The table shown in Technical Data are the approved sealants available to use on JCB machines. The table also provides basic details to help with selection of sealants. More up to date information can be found on the manufacturer's website.

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Figure 701.



4. Select and open the "Setup.exe" application.
5. A new window "JCB Servicemaster Setup" will appear on the screen.
   5.1. Click the "Install V10.0.3" option to start the setup application. Refer to Figure 702.

Figure 702.



6. A new window "Select Setup Language" will appear on the screen. Refer to Figure 703.
   6.1. Use the drop down option to select the suitable language.
   6.2. Click the "OK" option to confirm selected language.

Figure 703.



7. A warning message window will appear on the screen. Refer to Figure 704.
   7.1. Click the "OK" option.

Figure 704.



8. A new window "JCB Servicemaster Installation Wizard" will appear on the screen. Refer to Figure 705.
   8.1. Click the "Next" option to proceed.

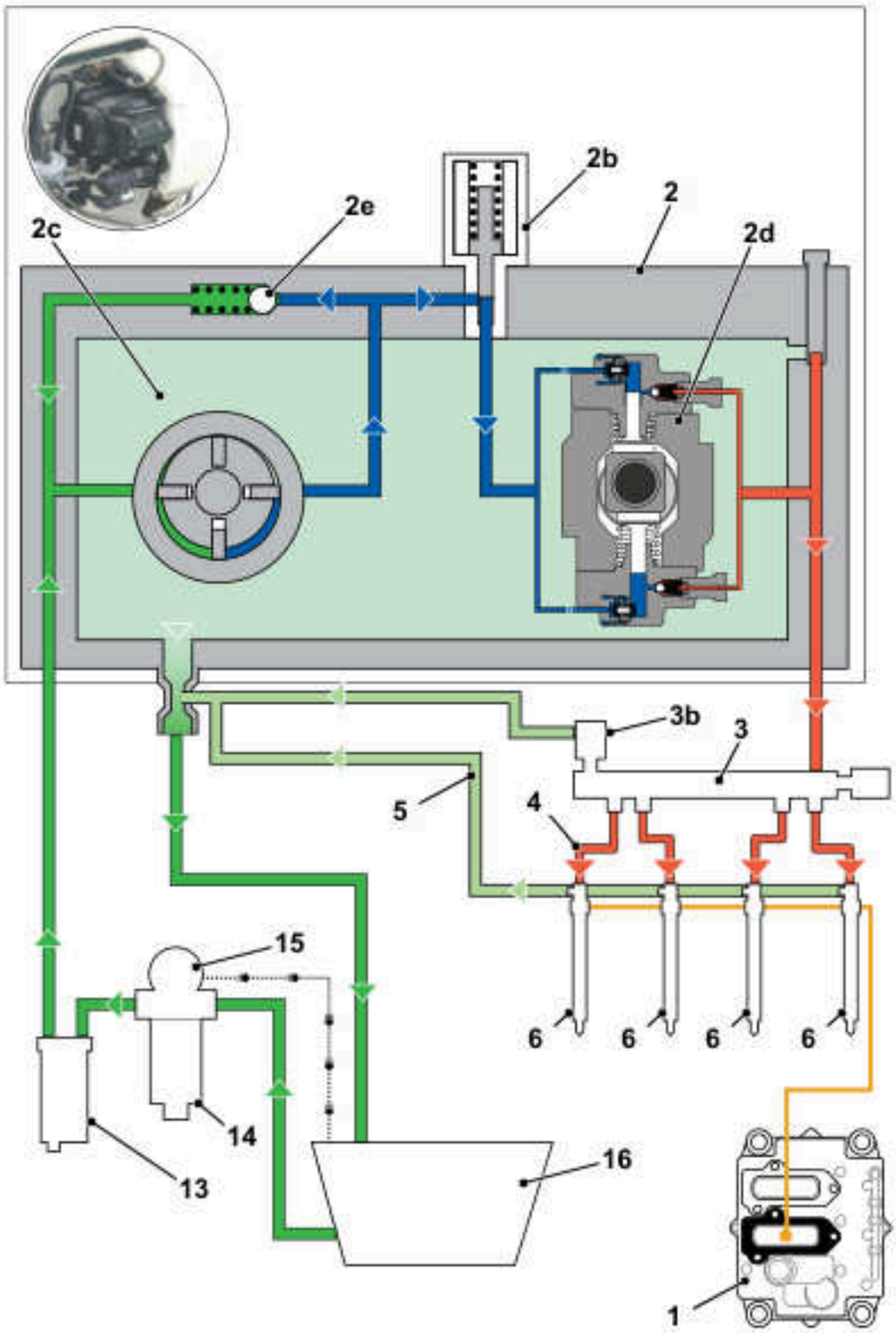
Figure 705.



9. Put "User Name" and "Organization" details into the "Customer Registration" screen. Refer to Figure 706.
   9.1. Click the "Next" option when you inserted details.

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Figure 263.



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

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