SERVICE MANUAL

DUMPER

6T-1 Front Tip, 6T-1 Swivel Tip,
7T-1 Front Tip Hi-Viz, 9T-1 Front Tip

EN - 9813/8950 - ISSUE 2 - 03/2018

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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Cause	Remedy
Fuel filter(s) blocked, fuel supply restricted.	Check/replace the fuel filter(s). Check fuel lines for restriction.
Fuel is contaminated or incorrect grade diesel fuel used.	Stop the engine. Replace the fuel filters. Operate the engine with a temporary supply of the correct grade of clean fuel. Monitor the engine performance. Dirty fuel will cause damage to the high pressure fuel pump and injectors.
Inlet and exhaust valve clearances set incorrectly.	Set the valve clearances to the recommended clearances.
Engine compression low in one or more cylinders.	Check the engine compression.
One or more fuel injectors worn or malfunctioning.	Check the electronic fault codes. Check the electrical connections at the injectors.
ECM or electrical sensor fault.	Check the electronic fault codes. Check the electrical connections at theECM and sensors.
Worn or malfunctioning high pressure fuel pump.	Check the electronic fault codes. Do all the necessary fault finding checks before removal of the high pressure fuel pump.

Table 22. Engine - Noise Excessive

Cause	Remedy
Drive belt squeal, insufficient tension or abnormally high loading.	Check the tensioner and inspect the drive belt for loading. deterioration, Make sure water pump, tensioner pulley, fan, alternator turn freely. Check for paint/oil or other material on pulleys. Check the tension of accessory drive belts.
Coolant temperature sensor fault.	Check the electrical connection at the coolant sensor. Check the correct electrical wires for open or short circuits.
Air intake or exhaust leaks.	See Also: Table 28. Engine - Exhaust Smoke Excessive (Black Smoke)
ECM or electrical sensor fault.	Check the electronic fault codes. Check the electrical connections at theECM and sensors.
Fuel is contaminated or incorrect grade diesel fuel used.	Stop the engine. Replace the fuel filters. Operate the engine with a temporary supply of the correct grade of clean fuel. Monitor the engine performance. Dirty fuel will cause damage to the high pressure fuel pump and injectors.
Inlet and exhaust valve clearances set incorrectly.	Set the valve clearances to the recommended clearances.
Turbocharger noise.	Check turbocharger impeller and turbine wheel for housing contact.
Inlet and exhaust valve springs broken.	Check and install new valve springs.
Worn crank/connecting rod bearings (knocking under load).	Check/replace rod and main bearings.
Excessive camshaft bearing wear.	Check bearings (engine overhaul required).
Worn or damaged pistons and/or piston rings.	Check piston assemblies (engine overhaul required).
One or more fuel injectors worn or malfunctioning.	Check the electronic fault codes. Check the electrical connections at the injectors.
Gear train noise.	Visually inspect and measure gear backlash. Replace gears as required.
Loss of Pilot injection on one or more cylinders.	Use service master to disable pilot injections to identify audibly if they are still present.

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Introduction

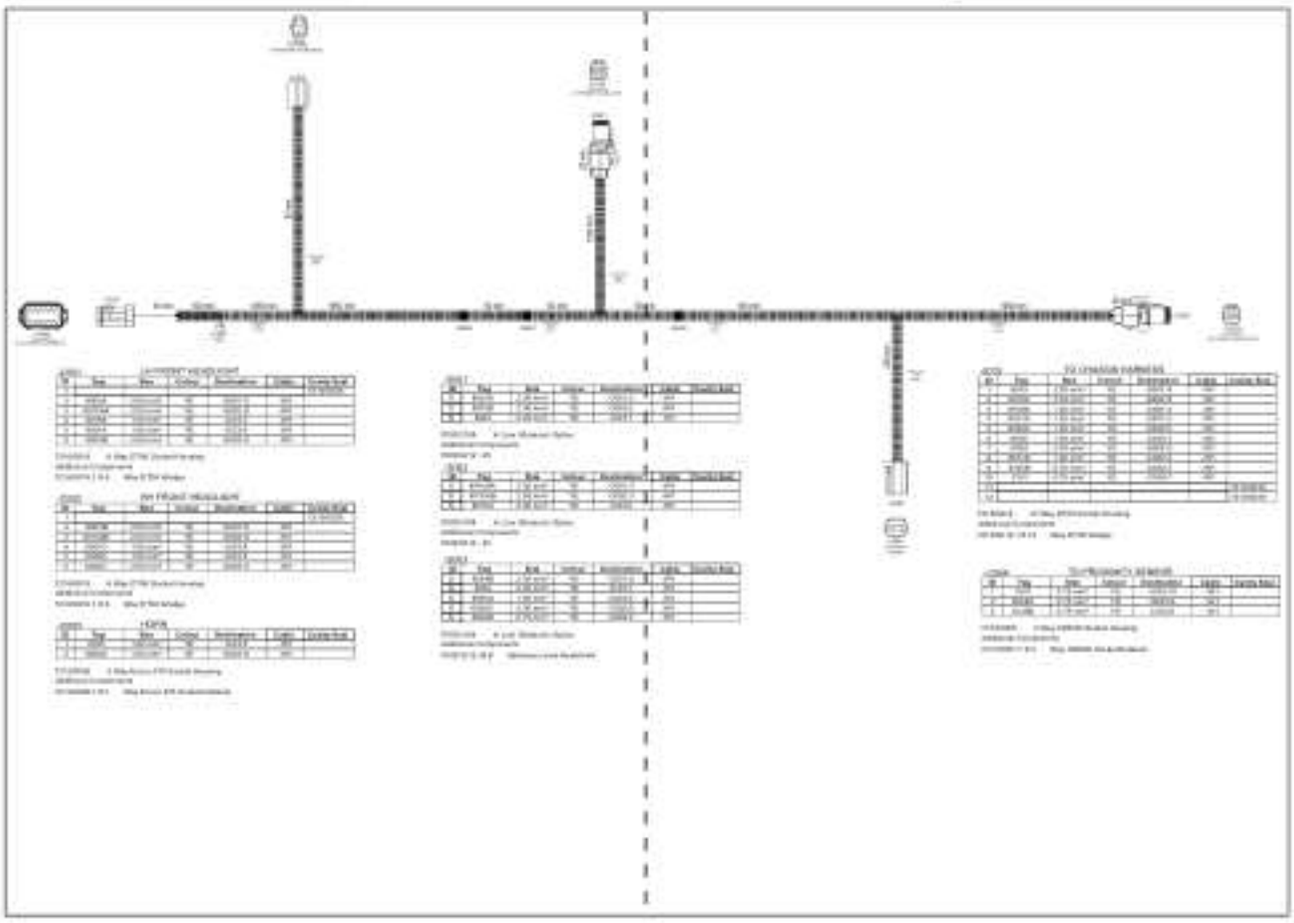
A schematic wiring diagram is a simplified pictorial representation of the machines hydraulic circuit. It shows the components of the circuit as simplified hydraulic symbols, and the connections between the different components. The schematic diagram is used to troubleshoot problems and to make sure that all the connections have been made and that everything is present. Detailed schematics for individual systems are given in the relevant PIL section.

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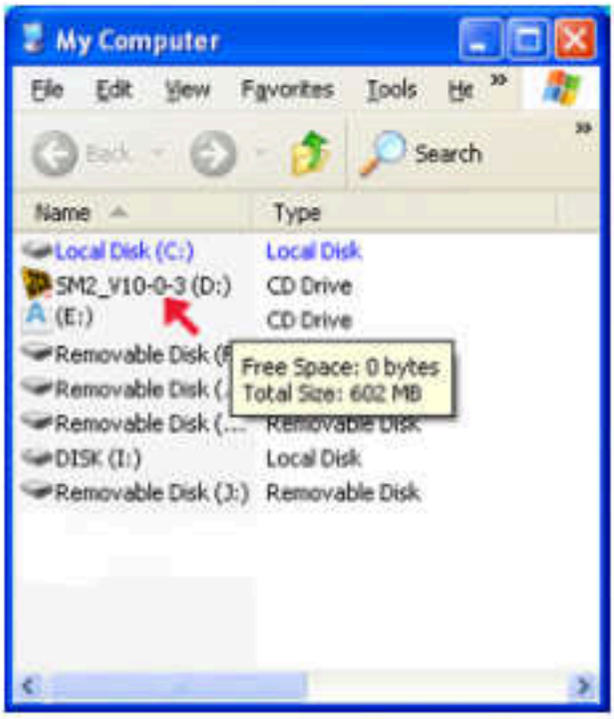
Figure 654. Front Chassis Harness 400/M3159 (Sheet 1 of 1)

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Figure 742.



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 743.

Figure 743.



6. A new window "Select Setup Language" will appear on the screen. Refer to Figure 744.
   6.1. Use the drop down option to select the suitable language.
   6.2. Click the "OK" option to confirm selected language.

Figure 744.



7. A warning message window will appear on the screen. Refer to Figure 745.
   7.1. Click the "OK" option.

Figure 745.



8. A new window "JCB Servicemaster Installation Wizard" will appear on the screen. Refer to Figure 746.
   8.1. Click the "Next" option to proceed.

Figure 746.



9. Put "User Name" and "Organization" details into the "Customer Registration" screen. Refer to Figure 747.
   9.1. Click the "Next" option when you inserted details.

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18. Remove the bolts (x2) and remove the handles from both sides of the transmission cover.

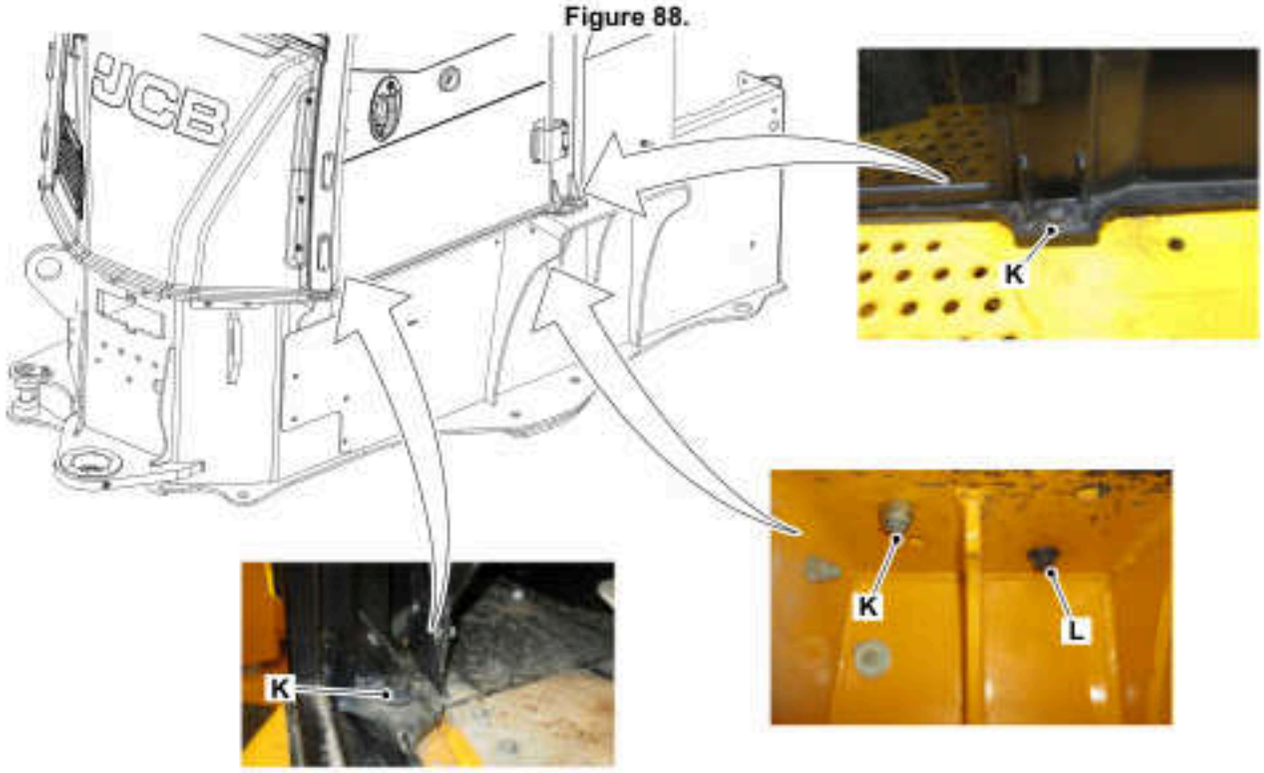
Figure 87.



H Bolts (x2)
J Handle

19. Remove the nuts and bolts (x4), and the bolts (x2).

Figure 88.



K Nuts and bolts (x4)

L Bolts (x2)

20. Close the left and right side doors.

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