SERVICE MANUAL

ROUGH TERRAIN TRUCK
926, 930, 940, 945, 950

EN - 9813/6600 - ISSUE 1 - 08/2017

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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Introduction

A schematic wiring diagram is a simplified pictorial representation of the machines electrical circuit. It shows the components of the circuit as simplified electrical symbols, and the power and signal connections between the devices. The wiring diagram is used to troubleshoot problems and to make sure that all the connections have been made and that everything is present.

Use the schematics together with the correct electrical harness drawings to reference the connector pin details.

This section may contain more than one set of electrical schematics for different machine variants.

Understanding Electrical Schematics

Use the applicable schematic set to trace wires and connections between electrical devices. In most cases it will be necessary to trace wires across more than one schematic sheet.

The example identifies the information contained on the diagrams. It also shows how to follow wires from one diagram sheet to another.

The harness inter-connector codes and device harness connector codes are the same as used on the applicable harness drawings.

Splices are not normally accessible. Splices are inside the harness sheath and not visible on the outside. Wires are welded together at a splice, there are no individual connector components.

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J2012 Fault Codes		Lamps				
J2012 P Code (HM Byte)	J2012 FTB	Amber	Red	DTC Severity as per STD00236	Dash Display	Fault Description
P02A6	00	Y		CRITICAL	P02A6-00-Please Contact JCB Dealer	Injector drift fault detection on Injector 0. Fault which is set when the Injector 0 MDP trim exceeds the maximum calibrated threshold limit. Max APC raw trim at low rail pressure
P02A6	00	Y		CRITICAL	P02A6-00-Please Contact JCB Dealer	Injector drift fault detection on Injector 0. Fault which is set when Injector 0 MDP trim exceeds the maximum calibrated threshold limit. Max APC raw trim at medium rail pressure
P02A7	00	Y		CRITICAL	P02A7-00-Please Contact JCB Dealer	Fault which is set when the Injector 1 absolute MDP value is below a calibrated threshold limit. MIN APC raw trim at high rail pressure
P02A7	00	Y		CRITICAL	P02A7-00-Please Contact JCB Dealer	Injector drift fault detection on Injector 0. Fault which is set when Injector 0 MDP trim exceeds the maximum calibrated threshold limit. Min APC raw trim at high rail pressure
P02A7	00	Y		CRITICAL	P02A7-00-Please Contact JCB Dealer	Injector drift fault detection on Injector 0. Fault which is set when Injector 0 MDP trim exceeds the maximum calibrated threshold limit. Max APC raw trim at low rail pressure
P02A7	00	Y		CRITICAL	P02A7-00-Please Contact JCB Dealer	Injector drift fault detection on Injector 0. Fault which is set when Injector 0 MDP trim exceeds the maximum calibrated threshold limit. Min APC raw trim at medium rail pressure
P0335	85	Y		CRITICAL	P0335-85-Please Contact JCB Dealer	Crank signal

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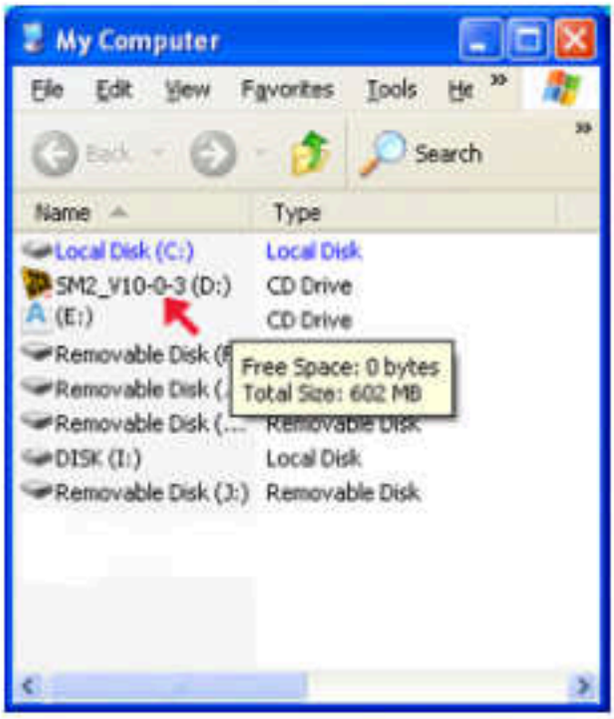
Technical Data

Table 351. Sealants Approved Product Information

Subsection	Commercial name	Product Number	Colour	Shelf life	Technical data	Comments
High strength	Loctite 275 Permabond A140	4102/0500	Green	730d	250bar (3,623.2psi) torque strength (on M8)	Non drip formulation, used on larger fittings, coarse threads.
High strength	Forgeway 240FC	4102/3100	Yellow	270d	25bar (362.3psi) breaking strength	Can be painted over with some 2 pack paint. Maximum width of joint =35mm, minimum width =2mm, minimum depth =2mm. Recommended depth of joint = width of joint.
Medium to high strength	Loctite 620	4102/3500	Green	-	172bar (2,492.7psi) shear strength	Used for locating pins in radiator assemblies, sleeves into pump housings and bearings in auto transmissions. Not suitable for plastics.
Medium strength	Loctite 518	4102/2000	Red, fluorescent	365d	90bar (1,304.3psi) tensile strength	Typically used as form-in-place gasket on rigid flanged connections.
Medium strength	Loctite 5182	4102/4100	Red gel, fluorescent	-	80bar (1,159.4psi) shear strength	It is manufactured to minimise air bubbles in the package. Used to seal gaskets, housings, cases and covers. It can also be used to repair and replace cut gaskets (up to 0.08mm in thickness).
Medium strength	Loctite 595	4102/2500	Clear	365d	6mm gap filling	Formulated to withstand weathering and extreme temperature cycling. Used for potting, coating and sealing. Can be applied horizontal, vertical and overhead.
Medium strength	Loctite 577 Permabond A1044	4102/1900	Yellow	365d	170bar (2,463.8psi) breakaway torque	A fast curing thread sealant used on coarse threads and pipe fittings up to 75mm thread size. Clearance for gap filling 0.8mm.
Medium strength	Loctite 2431	4102/2700	Blue	365d	140–340bar (2,029.0–4,927.5psi) breakaway torque	Taper thread sealant, non-fluorescing to see oil leaks. Suitable for all taper fittings up to M36.
Low strength	Clayton Dewandre air brake sealant SC1252	4102/2200	White opaque	12h full cure	Maximum seal pressure 29bar (420.3psi)	Seals pipes and plugs against leakage of air, fuels, lubricants and coolants. Hardens to a tough seal resistant to shock and vibration. Easily dismantled.
Low strength	Red Hermetite	4102/0800	-	-	Resistant to oil	Non-hardening paste jointing for joints regularly opened for servicing.

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Figure 763.



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 764.

Figure 764.



6. A new window "Select Setup Language" will appear on the screen. Refer to Figure 765.
   6.1. Use the drop down option to select the suitable language.
   6.2. Click the "OK" option to confirm selected language.

Figure 765.



7. A warning message window will appear on the screen. Refer to Figure 766.
   7.1. Click the "OK" option.

Figure 766.



8. A new window "JCB Servicemaster Installation Wizard" will appear on the screen. Refer to Figure 767.
   8.1. Click the "Next" option to proceed.

Figure 767.

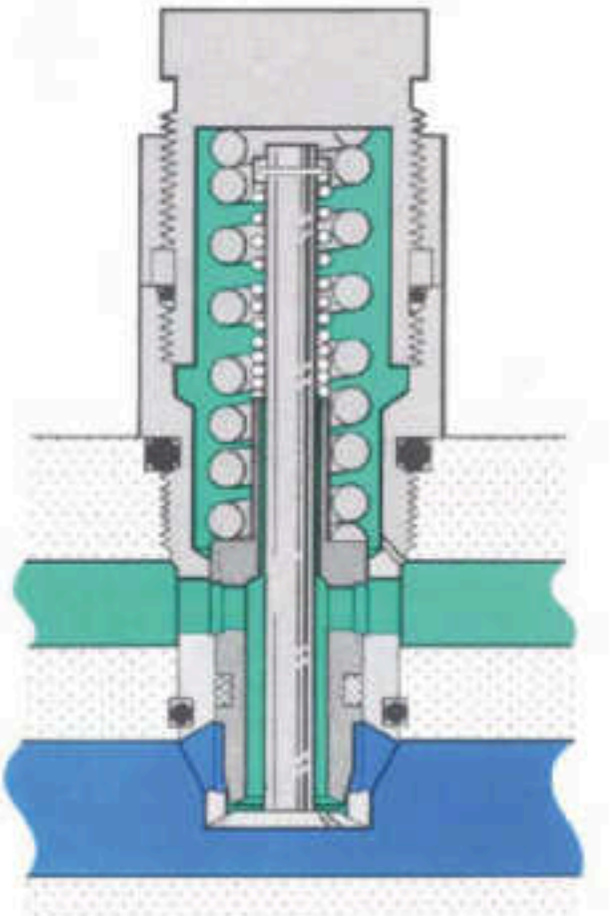


9. Put "User Name" and "Organization" details into the "Customer Registration" screen. Refer to Figure 768.
   9.1. Click the "Next" option when you inserted details.

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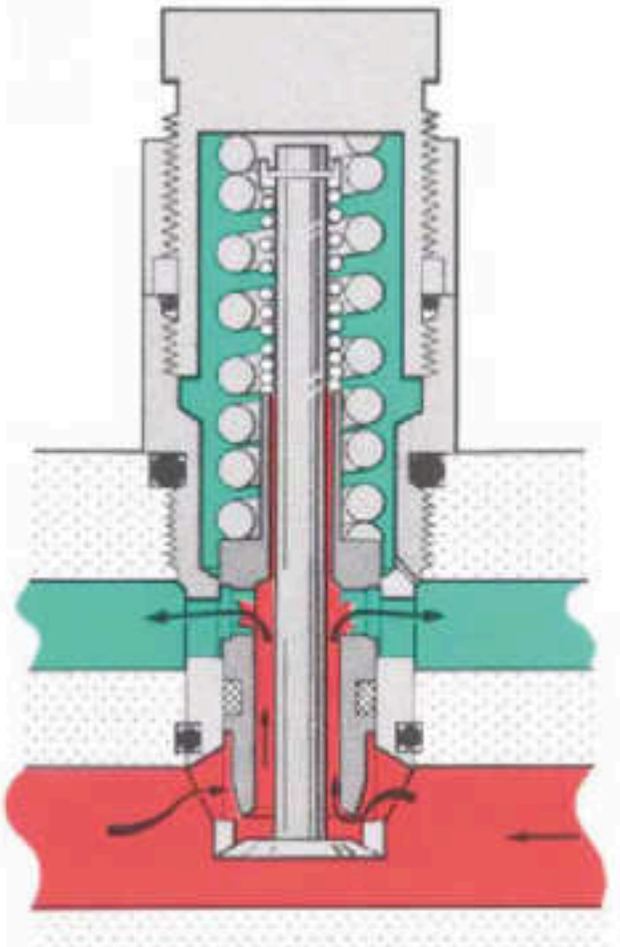
- When the ARV setting is less than the MRV setting, the ARV limits the lifting power so that excessive loads are not lifted to unsafe heights.
- To absorb shock loads generated by carrying a load over rough terrain. Without an ARV these loads would cause damage to rams etc., as the MRV cannot be blown off when the service is in neutral.

Figure 625.



Refer to Figure 625. Shows a service is selected but pressure in the service gallery (blue) has not reached the setting of the ARV which is held closed by its spring.

Figure 626.



Refer to Figure 626. Shows the setting of the ARV is exceeded by the service pressure which causes the poppet to rise against the spring pressure and is vented into the exhaust gallery (green).

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