Service Manual

535-125 HiViz and 535-140 HiViz Personnel Platform (Supplement)

⇨ *Introduction (1)*

⇨ *Service Procedures (29)*

⇨ *Electrics (51)*

⇨ *Hydraulics (159)*



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	Possible Cause	Action
	Other electrical system fault	Check for fault codes on the instrument panel display.
Engine stops periodically when machine is in remote operation	Receiver fault	Check wires and connectors between receiver and JCB ECU.
	Safety system operation	If the RCU is not operated during a 10 minute period the engine automatically stops for safety reasons (no fault)
Engine speed restricted	Engine speed actuator faulty	Adjust actuator.

Table 5. Hydraulic Service Faults

	Possible Cause	Action
One or more boom services start/ stop too slowly	Control sensitivity setting incorrect	Use JCB Servicemaster to set hydraulic sensitivity correctly. ⇨ *Manplatform Calibration - User Guide (36)*
	Other electrical system fault	Check for fault codes on the instrument panel display.
One or more boom services start/ stop too suddenly	Control sensitivity setting incorrect	Use JCB Servicemaster to set hydraulic sensitivity correctly. ⇨ *Manplatform Calibration - User Guide (36)*
	Other electrical system fault	Check for fault codes on the instrument panel display.
Platform will not tilt.	Tilt only operative when boom angle is below 10°	Lower boom.
	Other electrical system fault	Check for fault codes on the instrument panel display.
Platform slew function operates too slowly or too fast	Needle valve setting incorrect	Adjust needle valve to give correct ram operating speed.
	Other electrical system fault	Check for fault codes on the instrument panel display.
Platform slew function does not operate	Platform Slew Locks engaged	Disengage the platform slew locks

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E005	Engine Harness Connector
E006	Air Filter Vacuum Switch
E007	Lambda Sensor
E008	TMAF
E009	Chassis Harness Connector
E010	Powertrain CANbus Resistor
E011	Transmission Oil Temp
E012	Reversing Fan Solenoid
E013	Proportional Fan Solenoid
E014	Fan Speed Sensor
E020	Grid Heater
E023	Dieselmax CANbus Resistor
E024-1	Air Con Binary Switch 1
E024-2	Air Con Binary Switch 2
E025	Air Con Compressor

T020	TCLU Solenoid
T021	Temperature 2 (Non TCLU)

Table 21. 'T' Transmission Harness

Key	
T001	Chassis Harness Connector
T002	Forward High Solenoid
T003	Reverse High Solenoid
T004	4 Wheel Drive Solenoid
T005	Transmission Oil Pressure Switch
T006	Transmission Oil Temperature Switch
T007	Forward Low Solenoid
T008	Reverse Low Solenoid
T009	Layshaft Solenoid
T010	Mainshaft Solenoid
T011	6th Gear Solenoid
T014	HVCS Pump Control Valve
T015	Temperature Sender
T018	Temperature Sensor 2

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Hydraulics

Specifications

This supplement refers to components that differ from the standard non manplatform machine specification. For details of standard specification components refer to the machine service manual. ⇨ *About this Supplement (🗋 1)*

Control Valve

Table 27.

Type:	6 Spool, load sense - pressure compensated, double acting spools ⇨ *Fig 155. (🗋 160)*	
C	Outlet Section	
Spool 1	L/H Stabiliser	Integral proportional electro servo pilot operated
Spool 2	R/H Stabiliser	Integral proportional electro servo pilot operated
Spool 3	Auxiliary Service	Integral proportional electro servo pilot operated
Spool 4	Carriage Tilt Service	Integral proportional electro servo pilot operated
Spool 5	Boom Extend & Retract Service	Integral proportional electro servo pilot operated
Spool 6	Boom Raise & Lower Service	Integral proportional electro servo pilot operated
G	Inlet Section	

Pressures: ⇨ *Fig 155. (🗋 160)*			
	bar	**kgf/cm²**	**lbf/in²**
F - Load Sense Relief Valve (1)	260	265	3770
Auxiliary Relief Valves (ARV's)(2)			
D and J - Auxiliary Service	220	224	3190
E and H - Carriage Tilt	276	281	4003

(1) Before testing the Load Sense Relief Valve pressure, allow the hydraulic system to warm up to 50 °C (122 °F) to ensure an accurate reading.

(2) The ARV's are not adjustable. If the pressure setting is incorrect the ARV must be replaced.

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Manplatform Calibration - User Guide



CS12088

Introduction

The **Manplatform Calibration** software tool is part of the **JCB Servicemaster** software suite.

Note: *This software also incorporates diagnostics for the JCB platform. Refer to the correct part of the manual for diagnostics procedures.*

Note: *This software guide is universal and some functions may not be available on particular machine variants.*

This software is intended for use on IBM Compatible Personal Computers **(PCs)** running **Windows 9x**, **Windows2000** and **WindowsXP** operating systems but is not compatible with either earlier versions of **Windows 3.x**. Ideally the computer should be a laptop type.

Care and Safety

⚠ WARNING

Be sure to read and follow any on screen instructions. Failure to follow correct procedure could result in death or injury.

2-4-5-5

Installing Manplatform Calibration

The **Manplatform Calibration** tool is fully integrated within JCB Servicemaster. To use Manplatform diagnostics you must install **JCB Servicemaster** onto a suitable laptop computer. Refer to the Loadall Machine Service Manual.

– ***9813/0950*** for machines with Tier 3 Engine.

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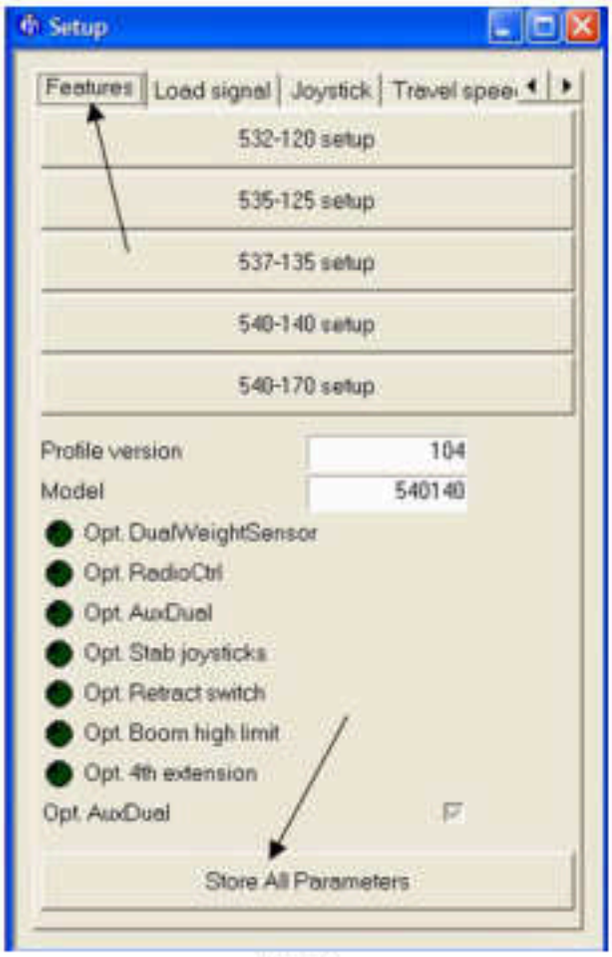


Fig 51.

6 The Store Parameters window will be displayed. ⇨ *Fig 52. (47)*. If you are not sure that the parameters have been set correctly, select 'No' and repeat the settings.

Important: *Ensure that the parameters are correct before selecting 'Yes'. The machine may be disabled if the wrong parameters have been set.*



Fig 52.

When the parameters are correct, select 'Yes'.

7 The machine will then shut down to allow the ECU to accept the parameters and the 'Status! - Parameters stored' window will be displayed. ⇨ *Fig 53. (47)*. select 'OK'.



Fig 53.

8 Select Cab Control. In the 'Ramps' window, select 'Cabin'. ⇨ *Fig 54. (47)*.

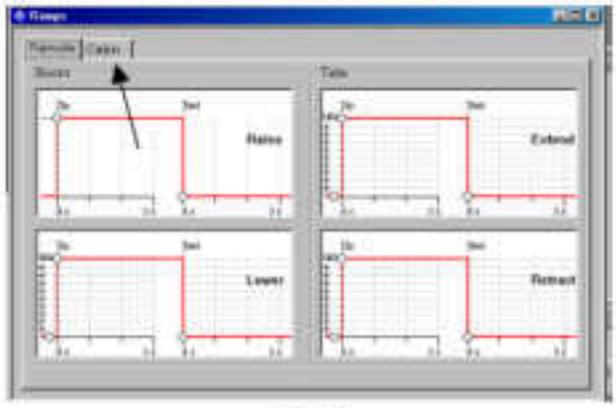


Fig 54.

9 Repeat steps 3 to 7, but operate the services from the joystick in the cab.

10 In the 'Setup' window, click on 'Features' tab and then on 'Store All Parameters'. ⇨ *Fig 55. (48)*.

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