

eqss™ Gen-3 LMS Telehandler Load Management System

Installation Manual for JCB 540-140 with Electronic Joystick





Do Not Swap Components between Gen3-LMS kits

When installing multiple Gen3-LMS kits, make sure the serial number on the sticker matches the serial number on the machine.

Failure To Follow Installation Manual Will Void Warranty

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Documentation Conventions

The list below highlights important documentation conventions.



Text presented in this manner is intended to provide the user with some general information. The user should ensure information presented in this manner is clearly understood.



Text presented in this manner provides the user with information to assist in completion of the current procedure being explained.



Text presented in this manner indicates that a failure to follow directions could result in damage to equipment, loss of information, bodily harm, or loss of life.

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Tools Required for Installation

The tools required to perform the installation of the TSS are listed below

- Pencil or Texta
- Drill
- Drill bits
 - 。 3.3 mm
 - 4.5 mm
 - 。 5 mm
 - 6.25 mm
 - 6.8 mm
 - ∘ 8.5 mm
- Centre punch
- Tap T-Handle
- Taps
 - M6
 - M7 x 0.75
 - o M8
- Drill and tap oil
- Metric Allen keys
- Phillips Head screw driver
- Spanners and sockets
 - 7 mm
 - 10 mm
 - 。 13 mm
- Locktite thread locker
- Side cutters
- Stanely knife
- Crimpers
- Wire strippers
- Hole saw
 - 。 31 mm
 - 。 34 mm

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Installation Index

The components and cables of the Gen-3 Telehandler Load Management System are outline in the tables below. The following pages show where the components are installed and the cable routing.

See the appropriate manual section for a detailed installation description for each component.



Refer to this section for any component placement or cable routing issues

Item	Component Description
1	Cable Reeler
2	Main Lift Cylinder Head Pressure Sensor
3	Main Lift Cylinder Rod Pressure Sensor
4	Compensation Pressure Sensors
5	Can Pressure Input Module (CPIM)
6	Forward Camera
7	Reverse Camera
8	Light Tower
9	Can Cabin Interface Module (CCIM)
10	Display Module

Table 1: Component Installation Index

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Colour	Cable Description	
Red	Boom Cable	
Dark Green	Main Cylinder Pressure Sensor Cables	
Brown	Compensation Head Pressure Sensor Cable	
Dark Blue	Compensation Rod Pressure Sensor Cable	
Light Blue	Forward Camera Cable	
Violet	Signal Light Cable	
Aqua	Rear Camera Cable	
Dark Purple	CCIM Cable	
Light Green	Cutout Harness	
Light Purple	Height Limiter Cable	
Orange	Display Cable	

Table 2: Cable Installation Index



Illustration 1: Machine Boom



Illustration 2: Machine Chassis

Covers

Remove the following covers before starting the installation

Step	Description	Diagram
1.	Release the dashboard display bolts	
2.	Remove the indicator display behind the steering wheel	

Table 3: Cover removal

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Cable Reeler Installation

The cable reeler is used to measure the boom extension to determine the maximum lifting capacity.



A false N07 fault can occur if the boom jumps off the stow switch due to pressurising the hydraulic system and without operating the boom extension control. Ensure the stow switch arm is correctly adjusted to prevent this error.



When mounting the cable anchor ensure it is mounted on the first extendable section not on the last section. If mounted on the last section the cable reeler will be damaged when the boom is extended.

Step	Description	Diagram
1.	Drill and tap holes for the cable reeler according to the mounting diagram on page 13. Mount using the supplied bolts and standoffs.	
2.	Drill and tap an M8 hole for the cable anchor. Ensure the cable anchor is positioned so the cable runs in line with the boom. Mount the cable anchor and attach the cable with the supplied M8 washer and the M8 nylock nut.	
	Note: Ensure the anchor is mounted on the first extendable section not on the last section. If mounted on the last section the cable reeler will be damaged when the boom is extended.	

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Step	Description	Diagram
3.	Drill and tap the M6 holes for the stow switch trigger. Ensure the stow switch arm is pressed/switched when the boom is retracted. Mount the stow switch trigger using the supplied 17mm spacers and M6 bolts.	
4.	Connect the supplied M12 10 metre cable (CB001027) into the cable reeler connection. Cable tie to the hydraulic pipes running underneath the boom then onto the flexible hydraulic hoses down to the chassis. Make sure the cable isn't pinched or stretched when the boom is raised or lowered.	

Table 4: Cable Reeler Installation

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Cable Reeler Mounting Position



Illustration 3: Cable Reeler Mounting Position

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Pressure Sensor Installation

The hydraulic pressure sensors are used to measure the lifting load of the telehandler.

Main Cylinder Pressure Sensors

Step	Description	Diagram
1.	Raise the boom to approximately 40 degrees. Support and secure the boom using an A Frame or similar apparatus. It must support at least 2 tons. Apply the handbrake and insert chock under wheels. Release the blanking cap on the hydraulic port. Removing the blanking cap will release the hydraulic pressure which may result in a spray of oil. Install the supplied pressure sensor and ensure it is tightly sealed.	
2.	Locate the 5/8 BSPP to 3/8 BSPP Hydraulic Tee (Not Supplied, JCB #: 816/90143) and connect to rod pressure sensor connections using the supplied seal as shown.	

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Step	Description	Diagram
3.	Install the tee connector and pressure sensor into the rod of the main lift cylinder, where the flexible hose connects to the rod of the lift cylinder. Start the machine, pressurise the boom and check for leaks.	
4.	Connect the supplied M12 4 metre cables (CB001026) into each of the pressure sensors. Cable tie the pressure sensor cables to the flexible hydraulic hoses connected to the main lift cylinder. Make sure the cable isn't pinched or stretched when the boom is raised or lowered. Run the cables towards the cabin and cable tie with the other cables during External Cable Completion on page 25. Ensure the pressure sensors and cables do not collide with the boom and chassis structures and the cables do not stretch or pinch when	

Table 5: Pressure Sensor Installation

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Compensation Pressure Sensors

	Compensation Pressure Sensors		
Step	Description	Diagram	
1.	Undo the hydraulic connection for the head compensation where the flexible hydraulic line from the compensation cylinder is connected into the fixed hydraulic pipes on the left side of the boom behind the cabin. Install the supplied tee piece and pressure sensor in line with the hydraulic connection.		
2.	Undo the hydraulic connection for the rod compensation where the flexible hydraulic line from the compensation cylinder is connected into the fixed hydraulic pipes on the right side of the boom behind the engine bay. Install the supplied tee piece and pressure sensor in line with the hydraulic connection.		
	Start the machine, pressurise the boom and check for leaks.		

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Step	Description	Diagram
3.	Connect the supplied M12 4 metre cables (CB001026) into each of the pressure sensors.	
	Run the cables along the flexible hydraulic hoses on the boom down to the chassis.	
	Run the cables towards the cabin and cable tie with the other cables during External Cable Completion on page 25.	
	Ensure the pressure sensors and cables do not collide with the boom and chassis structures and the cables do not stretch or pinch when the boom is raised and lowered.	

Table 6: Compensation Pressure Sensor Installation

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Reverse Camera

The rear camera video is displayed on the screen when the machine is in reverse gear to allow the operator to see behind the telehandler while reversing.

Step	Description	Diagram
Step 1.	Description Mount the reverse camera in the location shown in the image, using the nut and bolts supplied. Connect the camera power and signal connectors to the supplied 5m camera cable (CB001032). Note; The white connector is not used. Place the supplied high pressure	Diagram
	warning decal next to the reverse camera. Run the remainder of the cable towards the cabin and cable tie with the other cables during External Cable Completion on page 25.	

Table 7: Reverse Camera Installation



The camera's viewing angle may need to be adjusted once the system is installed and the display is operational.

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Forward Camera

The forward camera video is displayed on the screen when the machine is in forward gear to allow the operator to see past the boom to obstructions that would damage the right front tyre.

Step	Description	Diagram
1.	Mount the camera to the side mirror using the p-clips in the location shown.	
2.	Connect the camera power and signal connectors to the supplied 5m camera cable (CB001032). Note; The white connector is not used. Run the cable along the same path	
	as the headlight cable, run it through the headlight post, then under the chassis to the side of the cabin. Cable tie with the signal light cable during External Cable Completion on page 25.	

Table 8: Forward Camera Installation



The camera's viewing angle may need to be adjusted once the system is installed and the display is operational.

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Signal Light Installation

The signal light warns other workers when the telehandler is lifting loads close to it's maximum capacity.



Ensure the power supply voltage is greater than 13.5V otherwise the signal light may not illuminate correctly.

Step	Description	Diagram
1.	Remove the magnet from the bottom of the signal light mounting bracket and flip the signal light mounting bracket so the mounting holes are on the bottom.	
	Cut and remove 0.5 m of snake tube from the end of the cable starting at the signal light.	
	Drill two M4 holes to mount the signal light bracket to the left headlight support bracket on the roof.	
	Note: The signal light can instead be mounted to the right headlight support bracket for better protection but reduced visibility.	
	Mount using the supplied M4 bolts and nuts.	
2.	Inside the cabin, remove the covers at the top of the windshield and at the side housing the LMI indicator.	

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Step	Description	Diagram
3.	Cut the signal light cable approximately 300 mm from where the cable exits out the base of the signal light. Feed the cable through one of the existing grommets for the headlight cable into the cabin. Note: As an alternative to cutting the cable the grommet hole can be enlarged to fit the m12 connector. Note: The signal light cable must be run through an existing grommet hole. Drilling another hole in the cabin will invalidate the ROPS/FOPS protection of the cabin.	
4.	Inside the cabin, reconnect the 4 wire cable using the supplied crimp joiners. Secure the joined connections using electrical tape (not shown)	
5.	Run the cable along the same path as the headlight cables to inside the dashboard and secure using cable ties. Replace the dashboard covers.	

Table 9: Signal Light Installation

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Can Pressure Input Module (CPIM)

The CPIM is responsible for processing the information sent from the pressure sensors.



Accidentally swapping the pressure sensor connections will not damage system and can be determined if the display is showing a negative load.



Do not plug the pressure sensor cable into the far right side boom cable. This will damage the system.

Step	Description	Diagram
1.	Drill through two M8 holes for the CPIM bracket in the chassis behind the cabin. Mount using the supplied M8 x 35mm bolts, washers and nuts.	
2.	Connect the cables for the pressure sensors and boom cable to the CPIM according to the picture shown. Connect the supplied M12 4 metre cable (CB001026) into the free connection out of the right side of the CPIM for the CCIM cable. Run the CCIM cable towards the hole into the cabin.	CCIM Road Road Road

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Step	Description	Diagram
Step 3.	Run the height limiter cable from out the left side of the CPIM to the hydraulic block beside the cabin. Connect the tee connector labelled "Raise" from the height limiter cable to boom raise (bottom right) connector on the hydraulic block and the tee connector labelled "Extend" from the height limiter cable to boom extend (second up from bottom right) connector on the hydraulic block. Place a single cable tie to hold each cable position then disconnect the tee's from the raise and extend connectors, otherwise the boom will	Diagram 8
	not move. Complete the cable installation during External Cable Completion on page 25.	Lower Extend Raise

Table 10: Can Pressure Input Module (CPIM) Installation

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Can Cabin Interface Module (CCIM)

The CCIM connects the system into the machine electronics.

Step	Description	Diagram
1.	Connect the CCIM and signal light cables to the M12 connectors on the CCIM. Note: It doesn't matter which of the M12 connectors the CCIM and signal light cables are plugged into.	Carnarà / Pover
2.	Connect the Power/Camera and IO Harnesses to the bulkhead connectors on the CCIM. Position the CCIM underneath the dashboard using double sided velcro tape. Note: Make sure to leave enough room for the connectors and that the dashboard displays can be reinstalled.	
3.	Install the backup battery behind the indicator display using double sided velcro tape.	

Table 11: CCIM Installation

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External Cable Completion

All external cabling is completed in this step.

Step	Description	Diagram
1.	Locate the reverse camera, boom and compensation pressure cables at the rear of the machine and cable tie to the existing snake tube and hydraulic lines running towards and underneath the cabin. Coil up any additional cable and store under the CPIM module and cable tie to the hydraulic lines to keep in place.	View from under the boom towards the rear of the machine
2.	At the front of the machine cable tie the signal light and front camera cables together up to the side of the cabin.	
3.	Run the CCIM, signal light and camera cables through the hole into the cabin.	View from under the boom in the middle of the chassis towards the cabin

Table 12: External Cable Completion

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Dashboard Switches

The user input control and override switch are installed in the dashboard.

Step	Description	Diagram
1.	Remove a blanking switch plate from the dashboard and install the override switch.	
2.	Drill a 39 mm hole into the dashboard. Install the user control in the dashboard, aligned so the Enter cap is facing up.	

Table 13: Dashboard Switches Installation

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Display Installation

The display shows the current safety status of the telehandler.

Step	Description	Diagram
1.	Position the display bracket in the top right of the dashboard in the approximate location shown. Drill two 7 mm holes to attach the bracket to the dashboard. Secure the bracket to the dashboard using the supplied large washers and nuts Attach the display to the bracket and tighten the grub screw	
2.	Run the 8 pin cable from the CCIM and the 5 pin cable from the user control dial out between the dashboard and cabin plastic mounts and attach to the connectors in the back of the display.	

Table 14: Display Installation



Adjust the display bracket for optimal viewing angle once the display is powered



If the M12 screw lock connectors on the display are over tightened it will twist the connector pins attaching the connector to the PCB. See Appendix A: Attaching Display Connectors on page 39 for the correct method of attaching to the display connectors.

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If the clip-on ferrites were removed from the CCIM and user control cables. See Appendix B: Reattach Ferrites and page 43 for the correct reattachment position.

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Machine Connections

The following procedures connect the safety systems to the existing electronics in the machine.



Isolate the main battery before starting the machine connections

Step	Description	Diagram
1.	Splice the following wire colours from the stabiliser harness with the 2 pin connector into connector J2 behind the dashboard for the stabiliser signals. Wire Colour J2 Pin (Wire #) Blue 15 (481A) Green 16 (410)	CONTIGENCY THE PROPERTY OF TH
2.	Splice the following wire colours from the machine input harness with the 4 pin connector into the connector for the left steering column switch. Note: Remove the steering wheel height adjustment lever, to move the steering wheel higher, to get better access to the switch connector	
	Wire Colour Wire Number Orange 416F Red 416R	

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Step	Description	Diagram
3.	Connect the spade terminals from the machine input harness into the override switch.	
4.	Run the 12 pin tee connector out the hole in the cabin to the chassis. Note: The red and white terminals in the 12 pin tee connectors will need to be removed to fit the cable through the cabin hole. Reconnect the red terminals back into pin 2 and the white terminals back into pin 3 of the tee connector.	
	Connect the 12 pin tee connector to the joystick connection.	

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Step	Description	Diagram
5.	Run the two 2 pin tee connectors on the machine cutout harness through the hole leading outside the cabin, to the hydraulic block located beside the cabin. Connect the tee connector to the boom lower (bottom left) connector on the hydraulic block. Place a single cable tie to hold the cable position then disconnect the tee from the boom lower connector, otherwise the boom will not move.	Lower Extend Raise
6.	Splice into the 4 pin radio power connector located under the dashboard according to the table below. Wire Colour Wire Number Black 601AG Violet 181 Yellow 301F	

Table 15: Machine Connections

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Finalisation

This section will complete the final power connections to power the system and finish any additional items.

Step	Description	Diagram
1.	Connect the 4 pin and 12 pin connectors from the machine input harness into the I/O harness.	
2.	Connect the 2 pin and 6 pin connectors from the stabiliser and cutout harnesses to the I/O harness.	
3.	Connect the camera power and signal cables from the front and rear cameras to the power/camera harness connectors. Note: The white connector is not used.	

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Step	Description	Diagram
4.	Connect the 3 pin connector into the Power/Camera harness.	
5.	Connect the spade lug on the black wire to the negative (black) battery terminal. Connect the spade lug on the blue wire to the positive (red) battery terminal.	
6.	Coil up the extra cables and store underneath the dashboard cover.	
7.	Reconnect the tee connectors back into the hydraulic block beside the cabin.	

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Step	Description	Diagram
8.	Reconnect the main battery from the isolation switch. Turn the machine onto first	
	stage /accessories and ensure the system is activated.	¥ (000000)
9.	Adjust the display bracket for optimal viewing	
	Set the machine into forward gear to activate the forward camera. Adjust the forward camera so the front right wheel is visible.	ess Gerd Ltd
	Set the machine into reverse gear to activate the reverse camera. Adjust the reverse camera so the video is level.	S. P. P. C.
10.	Operate the boom movement controls to test if a false N07 fault occurs.	
	If a N07 fault does occur, adjust the arm on the stow switch forwards towards the stow switch trigger.	
	Note: The actual switch arm orientation may differ from the picture.	
11.	Perform a final check on all the cabling and sensors.	
	Replace all the covers	

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Complete the system checklist once installation has been completed.

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Set Time & Sensor Calibration

Once the installation is complete, the time will need to be set and the sensors will require calibration.



A sensor calibration must be performed once the cable reeler and CPIM have been mounted. If the cable reeler or CPIM have been moved/repositioned a recalibration must be performed

Step	Description	Diagram
1.	Press Enter on the user control dial	Main Menu
	to enter the menu system. Press the arrow buttons to select	Attachment Selection Menu
	System Menu. Press Enter to select the menu.	System Menu
		Exit Menu
2.	Select Advanced Menu	System Menu
		Volume / Brightness
		Status Menu
		Diagnostics Menu
		System Tests
		Advanced Menu
		Return to Main Menu

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Step	Description	Diagram
3.	Enter the password	Enter Password
.	(Default Password: 2-8-4)	Number 1 2
		Number 2 8
		Number 3 4
		Submit Password
		Return to System Menu
4.	Select Set Time / Date	Advanced Settings
1.	Select Get Time / Bate	Set Time / Date
		Sensor Calibrations
		Change Language
		Change Password
		Return to System Menu
5.	Enter the correct time and date for	Set Time / Date
	your area.	Hour 15
	Press the arrow keys to select a	Minute 54
	time/date parameter	Day 10
	Press Enter and the parameter will change to red, press the arrow keys	Month 2
	to change the value and then press	Year 2016
	the Enter key to store the value.	Region Melbourne
	Note: The hour parameter is in 24 hour clock	
	Repeat for the rest of the time values	

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Step	Description	Diagram
6.	Scroll to the next page and select Save to store the new time/date and	Save
	return to the Advanced Menu.	Return to Advanced Menu
7.	Select Sensor Calibrations	Advanced Settings Set Time / Date Sensor Calibrations
		Change Language
		Change Password
		Return to System Menu
8.	Select Calibrate Carrier Angle and then follow the instructions on the screen to complete the calibration.	Sensor Calibration Menu Calibrate Carrier Angle
	Repeat for Calibrate Boom Angle and	Calibrate Boom Angle
	Calibrate Boom Length.	Calibrate Boom Length
		Return to Advanced Menu

Table 17: Sensor Calibration

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Appendix A: Attaching Display Connectors

The procedure below describes the correct method of attaching the cables to the screw lock connectors on the display.



If the M12 screw lock connectors on the display are over tightened, it will twist the connector pins attaching the connector to the PCB.

Step	Description	Diagram
1.	Connect the cable from the user control to the top 5 pin connector on the display. Connect the cable from the CCIM to the bottom 8 pin connector on the display.	9 5 Pin - User Control 8 Pin - CCIM
2.	Line up the alignment hole on the cable connector with the alignment notch on the display connector.	

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Step	Description	Diagram
3.	Push the female connector from the cable into the male connector on the display.	
4.	Rotate the nut on the female connector by hand in a clockwise direction, until the tension on the nut starts to increase.	
5.	Push the cable in again and repeat steps 3 and 4 until the connector is secure.	

Table 18: Install Display Connector Procedure



The method to correctly secure the cable is to push-twist-push-twist until the connector is fully inserted and secure. This will minimise the twisting force applied to the connector.

Below is a picture of a damaged connector on the PCB inside the display. This damaged occurred because the connector was over tightened.



Illustration 4: Damaged Display Connector



Do not use any tools to tighten the connector.



Illustration 5: Do Not Use Tools To Tighten Connector

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Do not over-tighten the nuts on the back of the display connectors. These nuts should only be hand tightened. If the nuts are overtightened it will damage the PCB inside the display.



Illustration 6: Do Not Over Tighten Nuts



Damage to the display connectors is not covered under warranty.

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Appendix B: Reattach Ferrites

If the clip-on ferrites on the displays are removed during installation, they will need to be reattached as shown in the procedure below.



If the ferrites are not reinstalled or attached in the specified location the Gen3-LMS kit will not meet the AS/NZS CISPR 22:2006 certification.

Step	Description	Diagram
1.	Attach the two clip-on ferrites at a location of 60 mm and 260 mm from the start of the connector to the start of the ferrite. Do this for both the CCIM and user control cables that plug into the display.	

Table 19: Reattach Ferrites Procedure

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