

# eqss™ Gen-3 LMS Telehandler Load Management System

Installation Manual for MLT741 / MT732 Manual Tool Recognition





\*\*\*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\*\*\*

#### **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.

#### **Important Information**

Information contained in this publication regarding this device's applications and the like is provided only for your convenience and may be superseded by updates. It is your responsibility to ensure that the application or our equipment meets with your specifications.

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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
  - o 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

#### **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 Pressure Sensors
3	Compensation Cylinder Pressure Sensors
4	Can Pressure Input Module (CPIM)
5	Forward Camera
6	Signal Light
7	Rear Camera
8	Can Cabin Interface Module (CCIM)
9	Display Module
10	SPU Module
11	Joystick Connections

Table 1: Component Installation Index

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Colour	Cable Description	
Yellow	Boom Cable	
Dark Green	Main Cylinder Pressure Sensor Cables	
Dark Blue	Compensation Cylinder Pressure Sensors Cables	
Light Blue	Forward Camera Cable	
Violet	Signal Light Cable	
Aqua	Rear Camera Cable	
Dark Purple	CCIM Cable	
Light Green	Cutout Harness	
Red	Display Cable	
Orange	User Input Control Cable	
Brown	Machine Input Harness	

Table 2: Cable Installation Index



Illustration 1: Machine Boom

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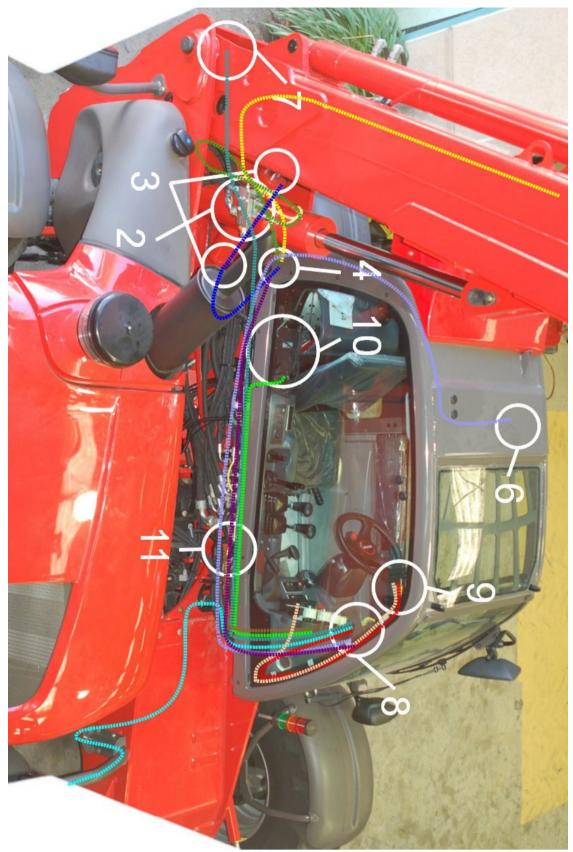


Illustration 2: Machine Chassis

Note: The old light tower is shown

## Covers

#### Remove the following covers before starting the installation

Step	Description	Diagram
1.	Remove the top cover behind the boom.	
2.	Remove the side panel next to the cabin under the boom.	
3.	Inside the cabin remove the dashboard.	

Step	Description	Diagram
4.	Remove the cover over the fluid containers	
5.	Remove the cover over the SPU behind the seat	

Table 3: Cover removal

### **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.

Step	Description	Diagram
1.	Drill and tap the holes for the cable reeler according to the mounting diagram on page 15.  Mount using the supplied standoffs, bolts and washers.	
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.	THE COLL.
3.	Drill and tap the M6 holes for the stow switch trigger bracket.  Mount the stow switch trigger bracket using the supplied M6 x 12 mm bolts and washers.  Adjust the length of the trigger plate to ensure the stow switch is pressed when the boom is retracted.	

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Step	Description	Diagram
4.	Connect the supplied M12 10 metre cable (CB001027) into the cable reeler connection.	
5.	Run the cable along the hydraulic pipes running down the boom, secure using cable ties every 150 mm to 200 mm.  Cable tie to the flexible hydraulic hoses down to the chassis. Make sure the cable isn't pinched or stretched when the boom is raised or lowered.  Run the remainder of the cable out the hole below the lift cylinder towards the rear of the machine and cable tie with the other cables during External Cable Completion on page 29.	

Table 4: Cable Reeler Installation



For further details on running the boom cable refer to the Installation Index on page  $7\,$ 

#### **Cable Reeler Mounting Position**

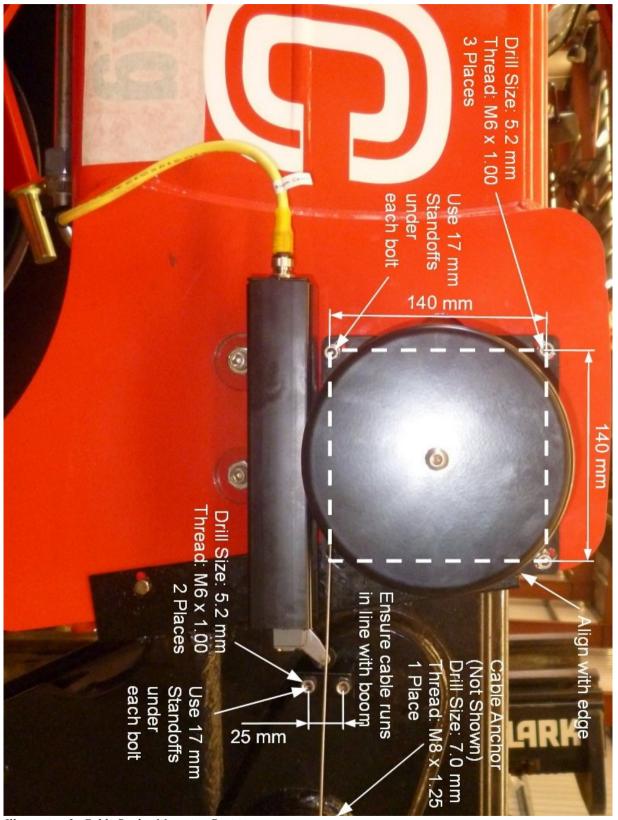


Illustration 3: Cable Reeler Mounting Position

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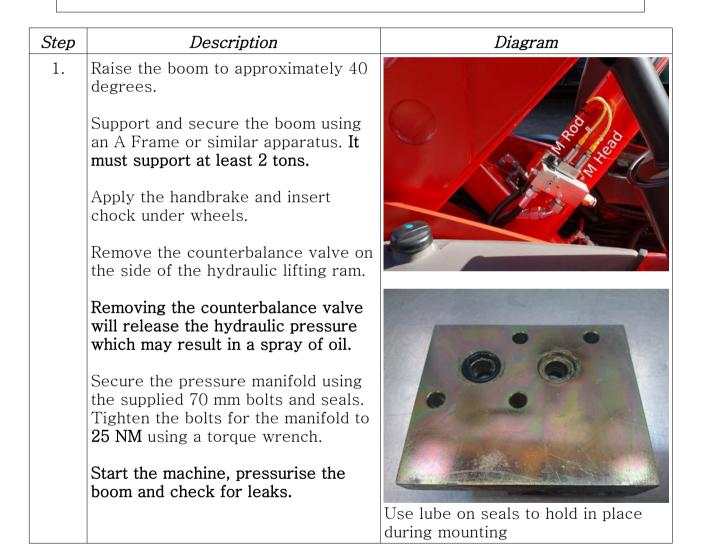
#### **Pressure Sensor Installation**

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

#### **Pressure Manifold**



Failure to tighten the bolts to the correct torque on the pressure manifold may result in a pressure failure on the counterbalance valve causing an uncontrolled fall of the boom.



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Step	Description	Diagram
2.	Connect the supplied M12 4 metre cables (CB001026) into each of the pressure sensors.  Add both cables to 3 m of snake tube. Cable tie 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 remainder of the cable out the hole above the rear axle under the lift cylinder towards the rear of the machine and cable tie with the other cables during External Cable Completion on page 29.	
	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 5: Pressure Manifold Installation



For further details on running the pressure sensor cables refer to the Installation Index on page 7

### **Compensation Pressure Sensors**

Step	Description	Diagram
1.	Install the pressure sensors with the tee connections into the head and rod of the compensation cylinder.	C Rod
	Start the machine, pressurise the boom and check for leaks.	C Head
	Connect the supplied M12 4 metre cables (CB001026) into each of the pressure sensors.	
	Add both cables to 3 m of snake tube.	View from behind the cabin towards the rear of the machine
	Run the remainder of the cable out the hole above the rear axle under the lift cylinder towards the rear of the machine and cable tie with the other cables during External Cable Completion on page 29.	
	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



For further details on running the pressure sensor cables refer to the Installation Index on page 7

## **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.



Do not disconnect the camera power connection while the system is operating as this can damage the fuse.

Step	Description	Diagram
1.	Drill a 31mm hole in the location shown.  Insert the camera through the hole and adjust the angle using the alignment washers.	
	Connect the camera power and signal connectors to the supplied 5m camera cable (CB001032).  Note; The white connector is not used.	
	Secure the camera cable using a single cable tie to maintain the connector location.	
	Run the remainder of the cable towards the cabin and cable tie with the other cables during External Cable Completion on page 29.	
2.	Place the supplied high pressure warning decal next to the reverse camera.	

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.



Once the cable has secured with a cable tie disconnect the cable to remove the rear cover until the installation is finalised



For further details on running the camera cable refer to the Installation Index on page 7

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## **SPU Cable Harness**



Isolate the main battery before connecting into the machine wiring

Step	Description	Diagram
1.	Push the snake tube containing the terminal for the SPU connector cutout signal from under the boom through the hole into the cabin with the other snake tube cables for the SPU.  Cable tie the snake tube into the	
	existing tube going into the seal.	
2.	Remove the connectors from the SPU and insert the cutout terminal into  • MT732 - A22 (where A is the smaller connector).  • MLT741 - B21 (where B is the larger connector)  Cable tie to the SPU snake tube.	
3.	Run the snake tube and cables towards the cabin and cable tie with the other cables during External Cable Completion on page 29.	

Table 8: SPU Cable Harness Installation



For further details on running the spu cable harness refer to the Installation Index on page 7

## **Machine Input Harness**



Isolate the main battery before connecting into the machine wiring

Step	Description	Diagram
1.	Locate the connectors under the boom next to the cabin, that connect into the joystick.	6
	Connect the 12 pin tee connector into X67.	
	Run the cable towards the cabin and cable tie with the other cables during External Cable Completion on page 29.	

Table 9: Joystick Cable Harness Installation



For further details on running the machine input harness refer to the Installation Index on page 7



The other wires on the machine input harness for the override switch will be installed in the section Finalisation on page 37.

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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.



Do not disconnect the camera power connection while the system is operating as this can damage the fuse.

Step	Description	Diagram
1.	Mount the camera to the side mirror using the p-clips as shown.  Secure using two M6 nuts.	
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 to the headlight cable every 150 mm to 200 mm.  Complete the cable installation during External Cable Completion on page 29.	

Table 10: Forward Camera Installation



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



For further details on running the camera cable refer to the Installation Index on page 7

# **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.	Mount the signal light on the top of the roof past the roof window towards the cabin door.	
2.	Run the cable towards the boom side of the roof and push through the hole near the window wiper.  Note: It might be necessary to cut a hole in the plastic roof cover to fit the cable.  Run the cable under the cover towards the rear corner.	

Step	Description	Diagram
3.	Run the cable along the pipes under the cover towards the chassis.	
	Cable tie with the other cables during External Cable Completion on page 29.	

Table 11: Signal Light Installation

## **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 and tap two M8 holes for the CPIM bracket in the chassis, so the cables can be run through the hole for removing the compensation cylinder pin.  Mount using the supplied M8 x 12mm bolts and washers.	
2.	Connect the cables for the pressure sensors and boom cable to the CPIM according to the picture shown.  Note: The CCIM cable will be installed during External Cable Completion on page 29.	Boom C Read C C Rod C Rod C Rod C C Rod C

Table 12: Can Pressure Input Module (CPIM) Installation

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# **External Cable Completion**

All external cabling is completed in this step.

Step	Description	Diagram
1.	Coil up and cable tie the additional cabling for the pressure sensor and boom cables and store inside the chassis.	
2.	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 cable out the hole under the lift cylinder.	Boom CCRod CRod CRod
3.	Drill and tap four M8 holes for the CPIM cover in the chassis, so the can protect the CPIM cables as shown.  Mount using the supplied M8 x 12mm bolts and washers.	

Step	Description	Diagram
4.	Cable tie the CCIM, signal light, rear camera, cutout and machine input harnesses together along the side to the front of the cabin.	
5.	Run the CCIM, cutout harness, machine input harness, signal light and camera cables up through the hole into the cabin under the dashboard.  Note: Pull the entire length of cable through into the cabin, excess cable will be stored under the dashboard cover in the cabin.	

Table 13: External Cable Completion



For further details on running the cables refer to the Installation Index on page 7

## **Display Installation**

The display shows the current safety status of the telehandler.

Step	Description	Diagram
1.	Attach the display bracket to the level indicator in the top right corner using the supplied M6 x 35 mm bolts and nuts.  Attach the display to the bracket and tighten the grub screw	
	tighten the grub screw	

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 46 for the correct method of attaching to the display connectors.

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## **User Input Control**

The user input control consists of a 5 button switch mounted in the dashboard.

Step	Description	Diagram
1.	Drill a 34 mm hole into the cover in front of the joystick and install the user control dial.  Note: Be careful while drilling not to damage the hydraulic controls positioned under the cover.	
2.	Run the cable through under the dashboard with the other cables.	

Table 15: User Input Control Installation



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 46 for the correct method of attaching to the display connectors.

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# Can Cabin Interface Module (CCIM)

The CCIM connects the system into the machine electronics.

Step	Description	Diagram
1.	Position the backup battery underneath the dashboard as shown and secure using double sided velcro tape.	
2.	Position the CCIM next to the brake fluid container as shown and secure using double sided velcro tape.  Remove the CCIM from the velcro to allow the connections to be completed. Reattach to the velcro in the section Finalisation on page 37.	

Table 16: CCIM Installation

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## **Cabin Loom**

The cabin loom connects the CCIM to the machine connections and the other modules of the system.



Isolate the main battery before connecting into the machine wiring



Do not disconnect the camera power connection while the system is operating as this can damage the fuse.

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.	Canara / Power 10
2.	Connect the Power/Camera and IO Harnesses to the bulkhead connectors on the CCIM.	PORTICIONES AND

Step	Description	Diagram
3.	Connect the camera power and signal cables to the cabin loom.  Note: The white connector is not used.	
4.	Connect the 4 pin female connector from the machine input harness, the 6 pin female connector from the cutout cable harness and the 2 pin and 12 pin connectors from the stabiliser harness to the cabin loom connectors.  Note: If stabilisers are not fitted leave the 2 and 12 pin disconnected	
5.	Run the 8 pin cable from the CCIM and 5 pin cable from the user control through the gap between the window and the dashboard.  Run both cables through snake tube and attach to the connectors to the back of the display.	
6.	Place cable tie points on the side of the window.  Cable tie the snake tube to the cable tie points.  Connect the cables to the display.  Do not over-tighten the connectors.	

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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 46 for the correct method of attaching to the display connectors.



If the clip-on ferrites were removed from the CCIM and user control cables. See Appendix B: Reattach Ferrites and page 50 for the correct reattachment position.

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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.	Cut wire 478 into terminal 1 of the switch.  Join the yellow wire from the machine input harness to side of wire 478 leading towards the switch.  Join the violet wire from the machine input harness to the other side of wire 478 leading towards the electronics.	
2.	Locate the power connector for the radio.  Connect the radio power tee connectors from the radio power harness to the power connector for the radio.  Connect the 3 pin connector to the cabin loom connector.	
3.	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.	

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Step	Description	Diagram
4.	Attach the CCIM to the velcro strips installed earlier.	
5.	Coil up the extra cables and store underneath the dashboard cover.  Reconnect the main battery from the isolation switch.  Turn the machine onto first stage /accessories and ensure the system is activated.	
6.	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.  Set the machine into reverse gear to activate the reverse camera. Adjust the reverse camera so the video is level.	egas Geof 1.85
7.	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.	

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Step	Description	Diagram
8.	Perform a final check on all the cabling and sensors.	BANGA
	Replace all the covers	

Table 18: Finalisation



Make sure to update the machine ECU software for Australian configuration using the Manitou pad.



Complete the system checklist once installation has been completed.

### **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

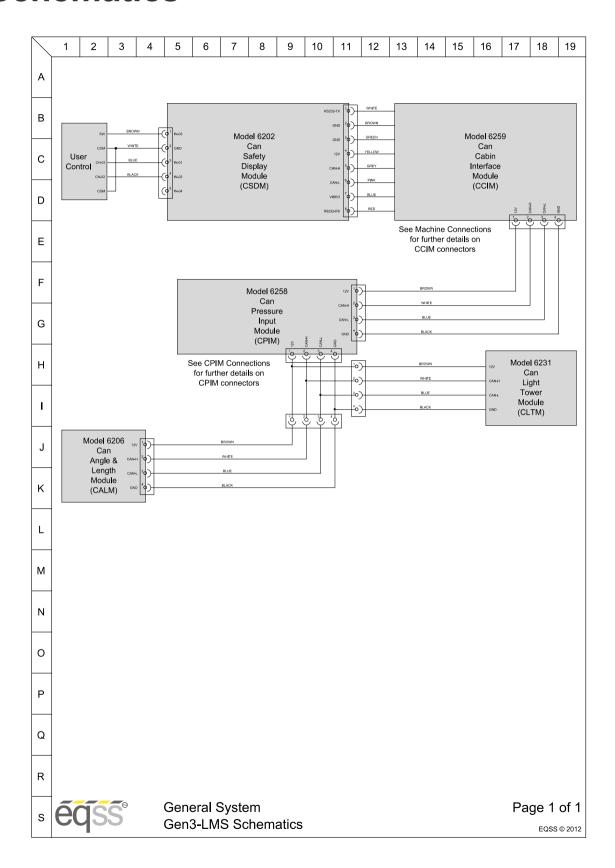
Step	Description	Diagram
1.	Press Enter on the user control dial	Main Menu
	to enter the menu system.	Attachment Selection Menu
	Press the arrow buttons to select System Menu.	
	Press Enter to select the menu.	System Menu
		Exit Menu
2.	Select Advanced Menu -	System Menu
		Volume / Brightness
		Status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

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

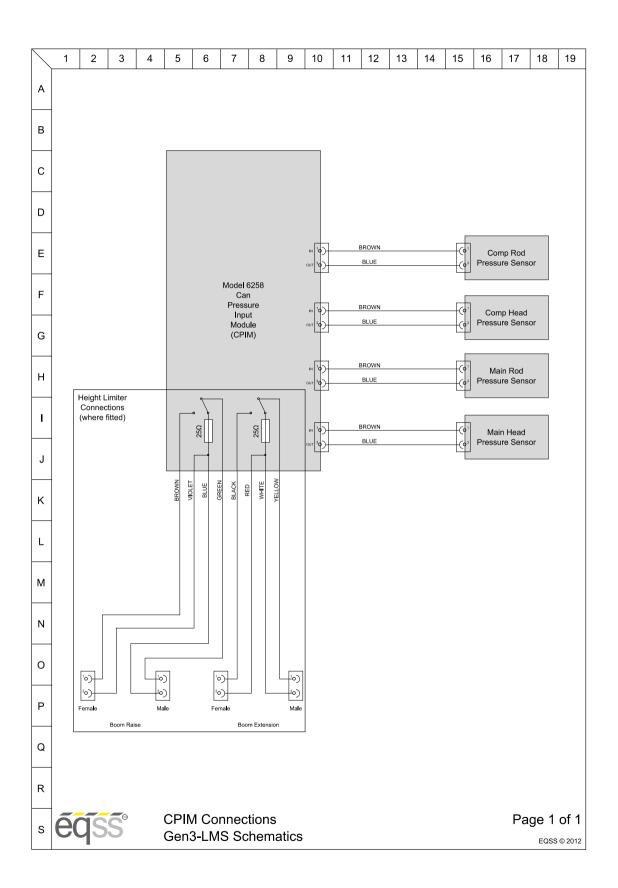
Step	Description	Diagram
6.	Scroll to the next page and select Save to store the new time/date and	Save
	return to the Advanced Menu.	Return to Advanced Menu
7.	Select Sensor Calibrations	Advanced Settings Set Time / Date Sensor Calibrations
		Change Language Change Password
		Return to System Menu
8.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

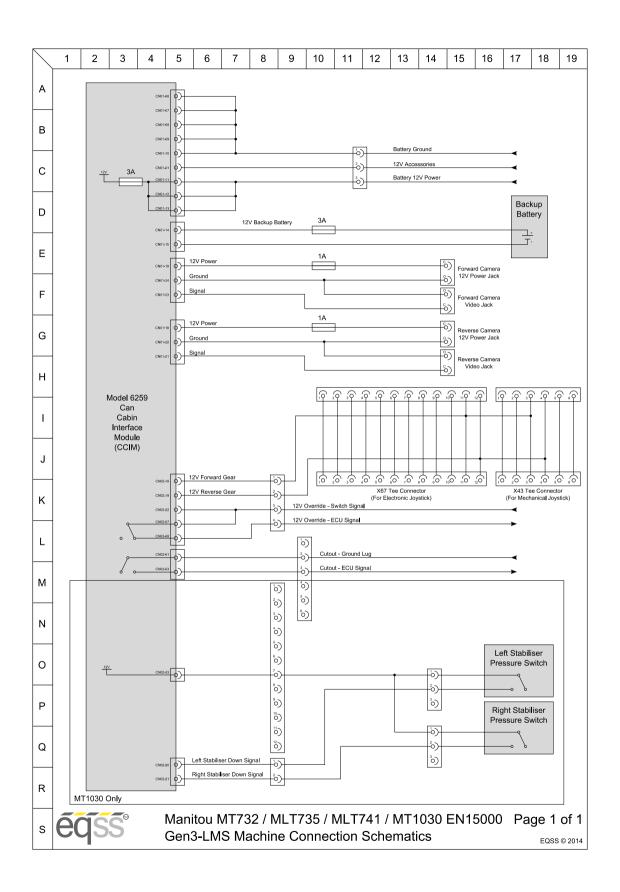
Table 19: Sensor Calibration

### **Schematics**



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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 20: 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



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 21: Reattach Ferrites Procedure

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