

## eqss™ Gen-3 LMS Telehandler Load Management System

Installation Manual for Privilege MT1440/1840 Std Manual Tool Recognition – 2021 Model





\*\*\*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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#### **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in this publication regarding this device's applications and the like is provided only for your convenience and may be superseded by updates.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 Gen3-LMS 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

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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 Pressure Sensors
3	Compensation Cylinder Pressure Sensors
4	Can Pressure Input Module (CPIM)
5	Forward Camera
6	Light Tower
7	Rear Camera
8	Can Cabin Interface Module (CCIM)
9	Display Module
10	User Control
11	Cutout

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	Light Tower Cable
Aqua	Rear Camera Cable
Dark Purple	CCIM Cable
Dark Yellow	Stabiliser Harness
Red	Display Cable
Orange	User Control Cable

Table 2: Cable Installation Index



Illustration 1: Machine Boom

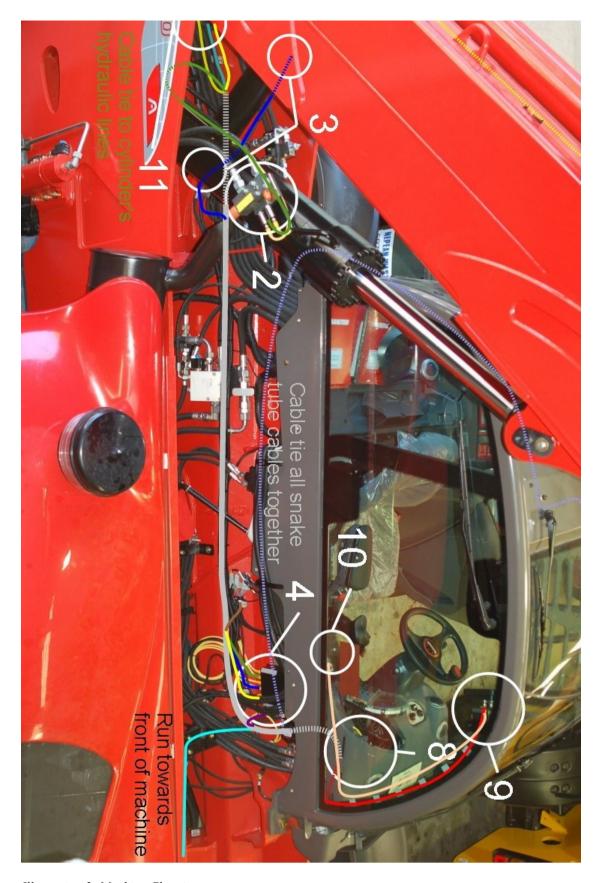


Illustration 2: Machine Chassis



Illustration 3: Front of Machine

## Covers

### Remove the following covers before starting the installation

Step	Description	Diagram
1.	Remove the top rear cover behind the boom.	
2.	Remove the side panel next to the cabin under the boom.	
3.	Remove the covers under the boom.	
4.	Remove the cover between the cabin and front left wheel.  Note: The cover doesn't need to be completely removed as long as the wiper connections are accessible	

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Step	Description	Diagram
5.	Remove the cover behind the cabin	
6.	Inside the cabin remove the dashboard display.  Remove the fuse box cover.	

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 the holes for the cable reeler according to the mounting diagram on page 15.  Mount using the supplied M6 x 16 mm 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.  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.	

Step	Description	Diagram
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.	
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 towards the cabin and insert into snake tube with the reverse camera cable during External Cable Completion on page 26.	

Table 4: Cable Reeler Installation



For further details on running the boom cable refer to the Installation Index on page  $6\,$ 

### **Cable Reeler Mounting Position**

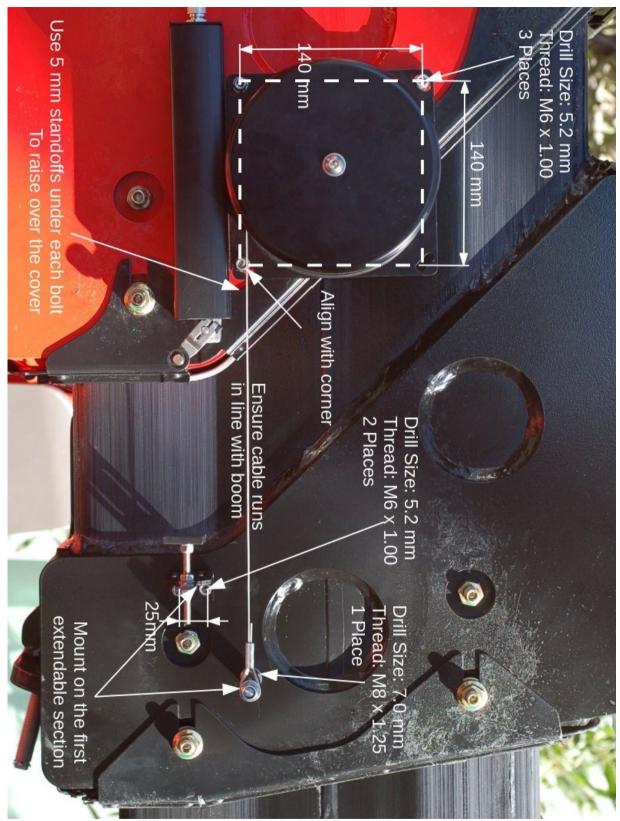


Illustration 4: Cable Reeler Mounting Position

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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.

### Step Description Diagram 1. Raise the boom to approximately 40 degrees. M Rod 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. Remove the counterbalance valve on the side of the hydraulic lifting ram. Removing the counterbalance valve will release the hydraulic pressure which may result in a spray of oil. Secure the pressure manifold using the supplied 70 mm bolts and seals. Tighten the bolts for the manifold to 25 NM using a torque wrench. Start the machine, pressurise the boom and check for leaks. Use lube on seals to hold in place during mounting

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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.	
	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.	
	Run the snake tube and cables towards the cabin and cable tie with the other cables during External Cable Completion on page 26.	

Table 5: Pressure Manifold Installation



For further details on running the pressure sensor cables refer to the Installation Index on page 6

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**Compensation Pressure Sensors** 

	Compensation Pressure Sensors		
Step	Description	Diagram	
1.	Install the pressure sensor with the U shaped hydraulic connection into the rod of the compensation cylinder	View from behind the cabin towards the rear of the machine	
2.	Install the head compensation pressure sensor into the compensation cylinder  Start the machine, pressurise the boom and check for leaks.  Connect the supplied M12 4 metre cables (CB001026) into each of the pressure sensors.  Add both cables to 3 m of snake tube.  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.  Run the snake tube and cables towards the cabin and cable tie with the other cables during External Cable Completion on page 26.	View from under the boom towards the rear of the machine	

Table 6: Compensation Pressure Sensor Installation



For further details on running the pressure sensor cables refer to the Installation Index on page 6

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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.



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

Step	Description	Diagram
1.	Remove the cover at the rear of the machine.  Drill a 31mm hole in the location shown. Making sure to leave enough room for a license plate  Insert the camera through the hole and adjust the angle using the alignment washers.  Place the supplied high pressure warning decal next to the reverse camera.	MANITUU
2.	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 insert into snake tube with the boom cable during External Cable Completion on page 26.	

Table 7: Reverse Camera Installation

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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 6

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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.	Drill two 7 mm holes spaced 25 mm apart on the top of the right headlight to mount the camera.	
	Mount the camera to the top of the headlight and secure using the supplied 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 through the headlight post.	
	Run the remainder of the cable towards the cabin and cable tie with the stabiliser cable harness during External Cable Completion on page 26.	

Table 8: Forward Camera Installation

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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 6

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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.	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.	

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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 26.	

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 and tap two M8 holes for the CPIM bracket in the chassis side panel.	Min-spaces
	Ensure the cover behind the cabin can still be attached.	
	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.	928-1203-0259
	Note: The CCIM cable will be installed during External Cable Completion on page 26.	C Head CCIM

Table 10: 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.	Locate the reverse camera cable and run both cables up to the CPIM.	View from under the boom towards the rear of the machine
2.	Run the cutout harness from the cabin, to the rear of the machine.  Locate the solenoid connection block and find the connector X379 that is plugged into a blank connector.  Remove this connector and plug it into the cutout harness.	

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Step	Description	Diagram
3.	Cable tie the pressure sensor, boom, cutout cable harness, reverse camera and signal light together up to the CPIM.  Coil up the additional cabling for the pressure sensor and boom cables and store underneath the CPIM.	
4.	At the front of the machine cable tie front camera cable up to the CPIM.	
5.	Connect the supplied M12 4 metre cable (CB001026) into the free connection out of the right side of the CPIM for the CCIM cable.	0286-1203-0256 TO SECOND

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Step	Description	Diagram
6.	Run the CCIM, signal light, cutout cable harness 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 11: External Cable Completion

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## **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 bolts and nuts.  Attach the display to the bracket and tighten the screw.	

Table 12: 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 45 for the correct method of attaching to the display connectors.

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### **User Control**

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

Step	Description	Diagram
1.	Drill a 40 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 13: 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 45 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 (to the right of the CCIM) underneath the dashboard using double sided velcro tape.  Position the CCIM to the left of the backup battery using double sided velcro tape.  Remove the battery and CCIM from the velcro to allow the connections to be completed. Reattach to the velcro in the section Finalisation on page 34.	

Table 14: 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.	Greek 6259 CCIM  Greek 4259 CCIM  Greek
	Note: It doesn't matter which of the M12 connectors the CCIM and signal light cables are plugged into.	Carvaria / Power I/O CAN
2.	Connect the Power/Camera and IO Harnesses to the bulkhead connectors on the CCIM.	

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Step	Description	Diagram
3.	Connect the camera power and signal cables to the cabin loom.  Note: The white connector is not used.	
4.	Run the 8 pin cable from the CCIM and the 5 pin cable from the user control through the gap between the window and the dashboard.	
5.	Run the cables through snake tube.  Place cable tie points on the side of the window.  Cable tie the snake tube to the cable tie points.  Connect into the 8 pin and 5 pin connectors into the display	

Table 15: Cabin Loom 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 45 for the correct method of attaching to the display connectors.

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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.	Splice the wires from the power connector into the grey radio power connector according to the table below.  Terminal # Wire Colour 8 Black 4 Violet 7 Yellow  Secure the splice joins using electrical tape  Ensure the correct fuses are installed in the machine's cabin	Grey Radio Connector (Plug Side View)
	fuse box to enable the radio power.	2 <b>■</b> 4 ☐ 6 <b>■</b> 8
2.	Connect the 6 pin and 3 pin into the cabin loom.	

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Step	Description	Diagram
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.	
4.	Attach the backup battery and CCIM to the velcro strips installed earlier.	
5.	Attach the CAN I/O module near the battery using the supplied velcro.	

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Step	Description	Diagram
6.	Connect the 4 pin male connector on the Can I/O module harness to the X1000 connector on the Manitou harness.  Install the 2-pin and 4-pin DTM connector from the CAN I/O module harness to the I/O harness as shown in the image.	
7.	Coil up the extra cables and store underneath the dashboard cover.	
8.	Reconnect the main battery from the isolation switch.  Turn the machine onto first stage /accessories and ensure the system is activated.  Note: If the system is activated as soon as the battery power is reconnected, swap pins 2 and 3 on the 3 pin connector on the radio power harness.	

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Step	Description	Diagram
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.	
	Set the machine into reverse gear to activate the reverse camera. Adjust the reverse camera so the video is level.	equs Gent 4.45
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	

Table 16: Finalisation



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

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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 System Menu.  Press Enter to select the menu.	Attachment Selection Menu
		Greature Manne
		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	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
4.		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	Minute 54
	time/date parameter	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	

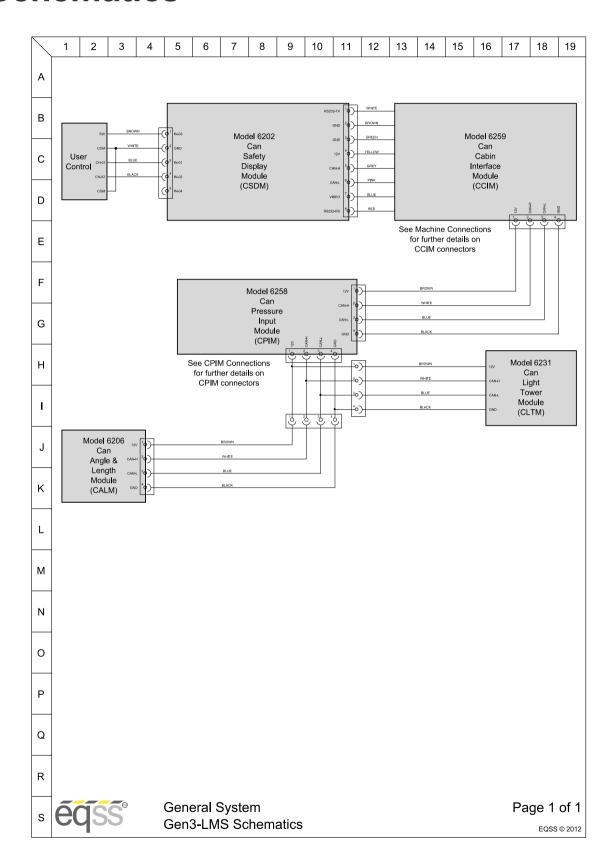
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Step	Description	Diagram
6.	Scroll to the next page and select Save to store the new time/date and	Save
	return to the Advanced Menu.	Return to Advanced Menu
7.	Select Sensor Calibrations	Advanced Settings
	gereet genger cangrations	Set Time / Date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

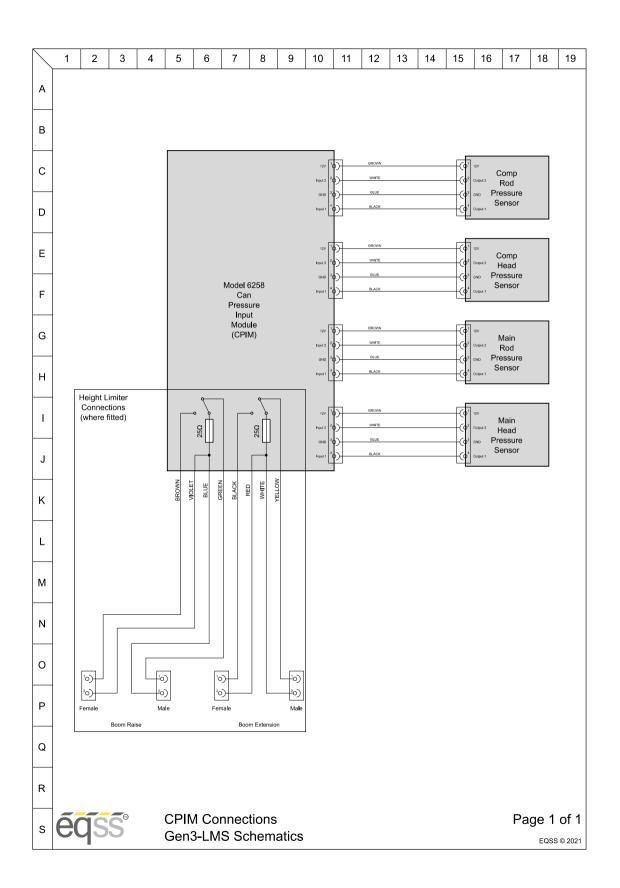
Table 17: Sensor Calibration

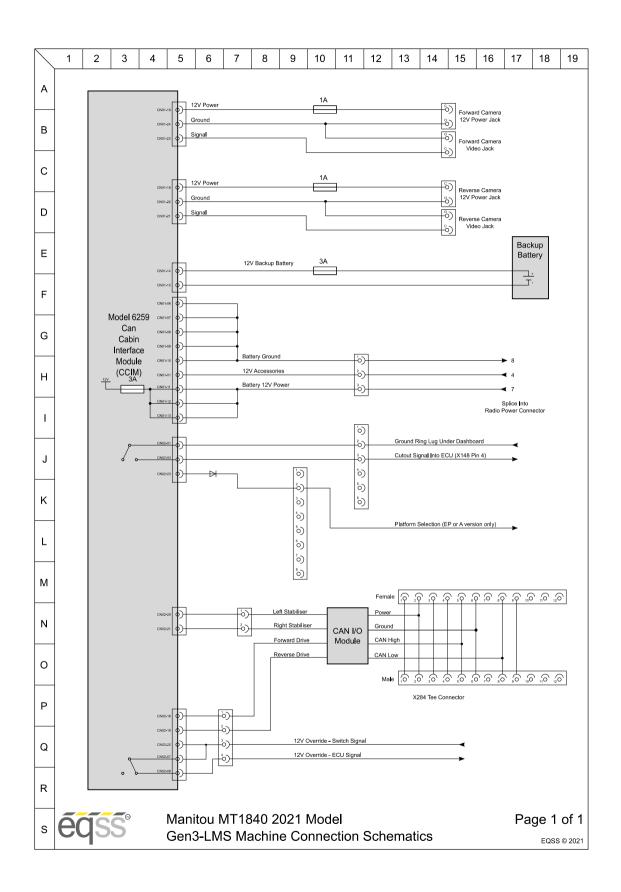
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## **Schematics**



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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 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.

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Illustration 5: Damaged Display Connector



Do not use any tools to tighten the connector.



Illustration 6: 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 7: Do Not Over Tighten Nuts



Damage to the display connectors is not covered under warranty.

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**Equipment Safety Systems Pty. Ltd.** ABN: 31 061 789 151 27 Cumberland Drive, Seaford 3198, Victoria, Australia

Tel: +61 3 8770 6555 Fax: +61 3 8770 6590 Web: www.eqss.com.au

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