

# eqss™ Gen-3 LMS Telehandler Load Management System

#### Installation Manual for SR626 Electric





\*\*\*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.

#### **Important Information**

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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
  - 6.8 mm
  - 。 8.5 mm
- Centre punch
- · Tap T-Handle
- Taps
  - ∘ M6
  - 。 M8
- Drill and tap oil
- Metric Allen keys
- Phillips Head screw driver
- Spanners and sockets
  - 7 mm
  - 。 8 mm
  - 。 10 mm
  - 13 mm
  - ∘ 17 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	Cutout Connection
6	Forward Camera
7	Signal Light
8	Rear Camera
9	Can Cabin Interface Module (CCIM)

Table 1: Component Installation Index

Colour	Cable Description
Light Purple	Boom Cable
Dark Green	Main Cylinder Pressure Sensor Cables
Dark Blue	Compensation Cylinder Pressure Sensors Cables
Red	Cutout Cable
Light Green	Forward Camera Cable
Brown	Signal Light Cable
Light Blue	Rear Camera Cable
Dark Purple	CCIM Cable

Table 2: Cable Installation Index

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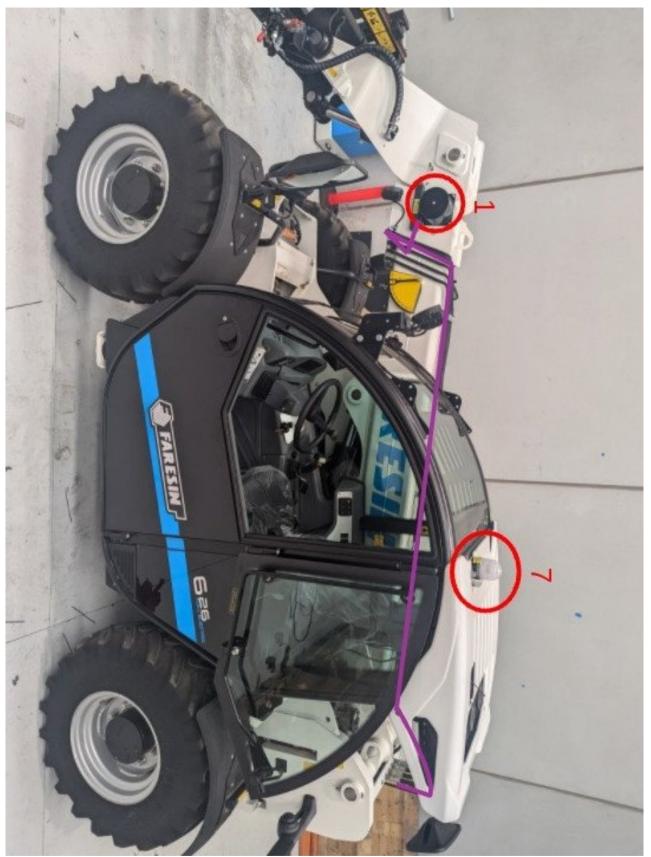


Illustration 1: Machine Boom

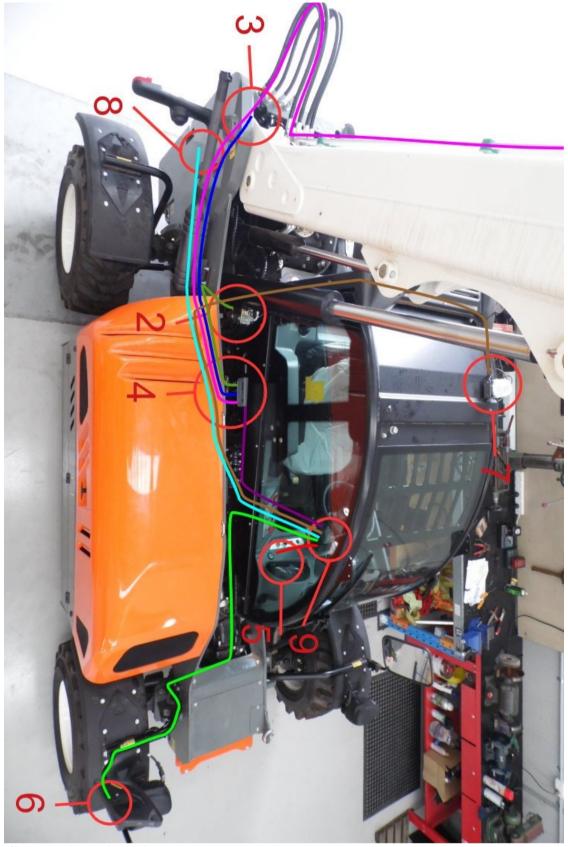


Illustration 2: Machine Chassis

### Covers

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

Step	Description	Diagram
1.	Remove the rear cover and disconnect the license plate light.	FARESIN
2.	Remove the side panel next to the cabin and the covers under the boom.	
3.	Inside the cabin, remove the dashboard display cover and the switch panel.	

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Step	Description	Diagram
4.	Remove the Lmi box from the dashboard panel.	
5.	Inside the cabin remove the fuse holder board protection panel located in the lower left part of the dashboard.	

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.

Step	Description	Diagram
1.	Drill and tap the holes for the cable reeler according to the mounting diagram on page 13.  Mount using the supplied M6×12 mm bolts and washers.	© Macous
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.  Drill and tap the M6 holes for the stow switch trigger. Ensure the stow switch is pressed when the boom is retracted.  Mount the stow switch trigger using the supplied M6 x12 mm bolts and washers.	

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Step	Description	Diagram
3.	Connect the supplied M12 10 metre cable (CB001027) into the cable reeler connection.	
4.	Run the cable along the hydraulic pipes running down the boom and 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 secure to the other cables during External Cable Completion on page 25.	

Table 4: Cable Reeler Installation



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

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### **Cable Reeler Mounting Position**

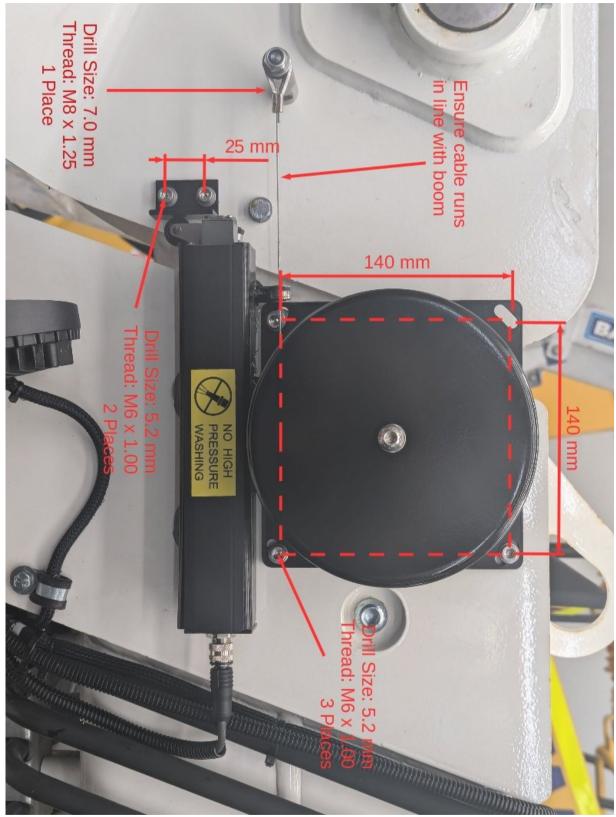


Illustration 3: Cable Reeler Mounting Position

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### **Pressure Sensor Installation**

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

### **Main 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.  Remove the hydraulic hoses connected to the manifold block to allow access to the blanking caps.  Release the two blanking caps on the side of the hydraulic manifold.  Removing the blanking cap will release the hydraulic pressure which may result in a spray of oil.  Install the supplied head and rod pressure sensor hydraulic fittings and ensure it is tightly sealed.  Start the machine, pressurise the boom and check for leaks.	Main Rod Main Head

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Step	Description	Diagram
2.	Connect the supplied M12 4 metre cables (CB001026) into each of the pressure sensors.	
	Cable tie the head and rod 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.	
	Raise and lower the boom and ensure the pressure sensors and cables do not collide with the boom and chassis structures and the cables do not stretch or pinch.	

Table 5: Main Pressure Sensor 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.	Locate the tee connections on the chassis where the compensation cylinder hydraulic lines tee into the tilt cylinder lines at the rear of the machine.	Location of the tee connections behind the chassis	
2.	Undo the hydraulic connection for the head compensation onto the run of the existing tee connector.  Install the supplied tee piece, elbow and pressure sensor.  Undo the hydraulic connection for the rod compensation onto the run of the existing tee connector.  Install the supplied tee piece, elbow and pressure sensor.  Start the machine, pressurise the	RODHEAD	
	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 snake tube and 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



Angle the tee connections to ensure the hydraulic connections and pressure sensor do not hit the boom when the boom is lowered



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.	Drill a 31mm hole in the rear cover 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.	
	Connect the camera power and signal connectors to the supplied 5m camera cable (CB001032).	FARESIN
	Note; The white connector is not used.	
	Cable tie the camera cable to the adjacent hydraulic lines.	
	Run the remainder of the cable towards the cabin and cable tie to the other cables during External Cable Completion on page 25.	
	Place the supplied No High Pressure Wash sticker above the 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.

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Once the cable has been tied to the license plate light cable disconnect the cable 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.	Mount the camera to the side mirror using the p-clips as 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 to the headlight cable every 150 mm to 200 mm.  Complete the cable installation during External Cable Completion on page 25.	

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 along the roof towards the rear of the cabin.  Cable tie to the air conditioning connections towards the boom side of the roof.	

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Step	Description	Diagram
3.	Run the cable underneath the hose cover running down to the chassis.	5 1
	Note: It might be necessary to remove the hose cover to run the cable.	
	Cable tie with the other cables during External Cable Completion on page 25.	

Table 9: Signal Light Installation

## **Can Pressure Input Module (CPIM)**

The CPIM is responsible for processing the information send 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 cab side panel.  Mount using the supplied M8×12mm 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 25.	CAN TRANSPORT TO THE PARTY OF T

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.	Cable tie the pressure sensor, boom, reverse camera and signal light cables together up to the CPIM	
	Coil up the additional cabling for the pressure sensor and boom cables and store it underneath the CPIM.	
2.	Connect the supplied M12 4 metre cable (CB001026) into the connection out of the right side of the CPIM for the CCIM cable.	CONTROL OF THE STATE OF THE STA

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Step	Description	Diagram
3.	Run the CCIM, cutout (Diesel version), signal light and camera cables up through the hole into the cabin under the dashboard for the servo command pressure indicator.  Note: Only pull enough of cable through into the cabin as required, excess cable will be stored under outside the cabin under the cabin entry hole.	

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.	Secure the display bracket base to the existing holes in the cabin frame using M6 X 20mm screws. Insert the supplied mounting ball into the bracket base.  Attach the display to the bracket and tighten the grub screw to secure in place.	ROMA
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 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 43 for the correct method of attaching to the display connectors.

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## **User Input Control**

The user input control consists of a single dial switch mounted in the dashboard.

Step	Description	Diagram
1.	Drill a 39 mm hole into the dashboard.	
	Install the user input control dial in the dashboard, aligned so the Enter cap is facing up.	
	Secure using the supplied nut.	

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 43 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 CCIM on top next to the fuse holder board under the steering wheel located in the left lower part of the dashboard 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 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.



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.	Catroiria / Power
2.	Connect the Power/Camera and I/O harnesses to the CCIM bulk head connectors.  Connect the camera power and signal cables to the cabin loom.  Note; The white connectors are not used.	

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Step	Description	Diagram
3.	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.	
	Note: The plastic dashboard cover will need to be filed down to make a hole for the cables.	
	Run both cables through snake tube and attach to the connectors to the back of the display.	
	Place cable tie points on the side of the cabin frame.	
	Cable tie the snake tube to the cable tie points.	
	Connect the cables to the display.  Do not over_tighten the connectors.	

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 43 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 47 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



After completing the machine connections the boom can not be moved until the installation is complete

Step	Description	Diagram
1.	Secure the CAN I/O module on top of the fuse box inside the cabin dashboard using velcro tape.	
2.	Connect the 12 pin tee connectors from the CAN I/O module harness into the dashboard display connector X26.	

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Step	Description	Diagram
3.	Locate the connector X31 inside the dashboard LMI indicator.	
4.	Cut the following wires from the LMI indicator connector X31 and join with the CAN I/O harness with the Override and Cutout signals.  Secure the wire joins with electrical tape.  Wire Colour Wire Number Black X31-17 Blue SW-17 Yellow X31-5 Violet SW-5	Note: This image is before the electrical tape has been applied.
5.	Locate the key switch terminal X132 and joystick connector X47 in the removable dashboard panel.  Connect the 6 pin tee connection on the power harness into the X132 and 8 pin tee connection into the X47connector for the ground connection.	View behind dashboard panel

Table 16: 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 6 pin and 4 pin connectors from the CAN I/O harness into the I/O harness.  Note: The 2 pin and 12 pin connectors from the I/O harness are not used.	
2.	Connect the 3 pin connector from the power harness into the Power/Camera harness.  Note: The spade lugs on the Power/Camera harness are not used.	
3.	Coil up the extra cable from the CCIM, signal light and camera cables and store behind the dashboard cover.	

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Step	Description	Diagram
4.	Reconnect the main battery from the isolation switch.  Turn the machine onto first stage /accessories and ensure the system is activated.	
5.	Adjust the display bracket for optimal viewing  Set the machine into forward gear to active the forward camera.  Adjust the forward camera so the front right wheel is visible.  Set the machine into reverse gear to active the reverse camera.  Adjust the reverse camera so the video is level.	
6.	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.	
7.	Perform a final check on all the cabling and sensors.  Replace all the covers	

Table 17: Finalisation

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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.	Greature Manne
	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 (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
1.	Select Set Time / Date	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 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	

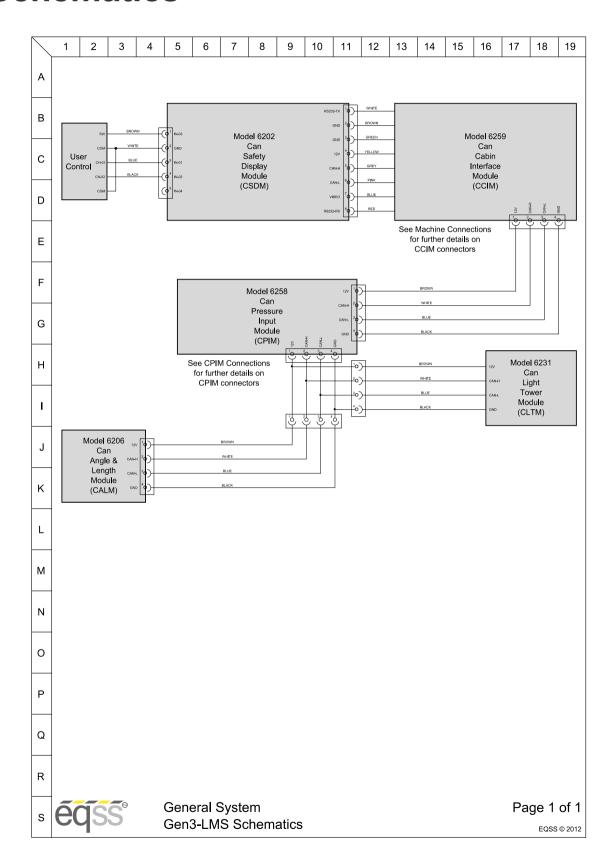
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Step	Description	Diagram
6.	Scroll to the next page and select Save to store the new time/date and	Save
	return to the Advanced Menu.	Return to Advanced Menu
7.	Select Sensor Calibrations	Advanced Settings  Set Time / Date  Sensor Calibrations
		Change 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 Length.	Calibrate Boom Angle
		Calibrate Boom Length
		Return to Advanced Menu

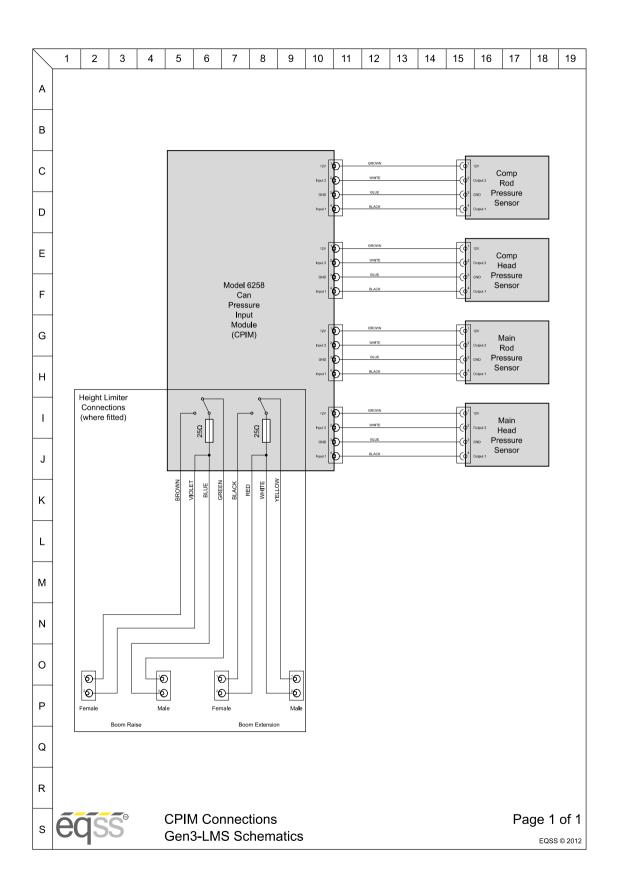
Table 18: Sensor Calibration

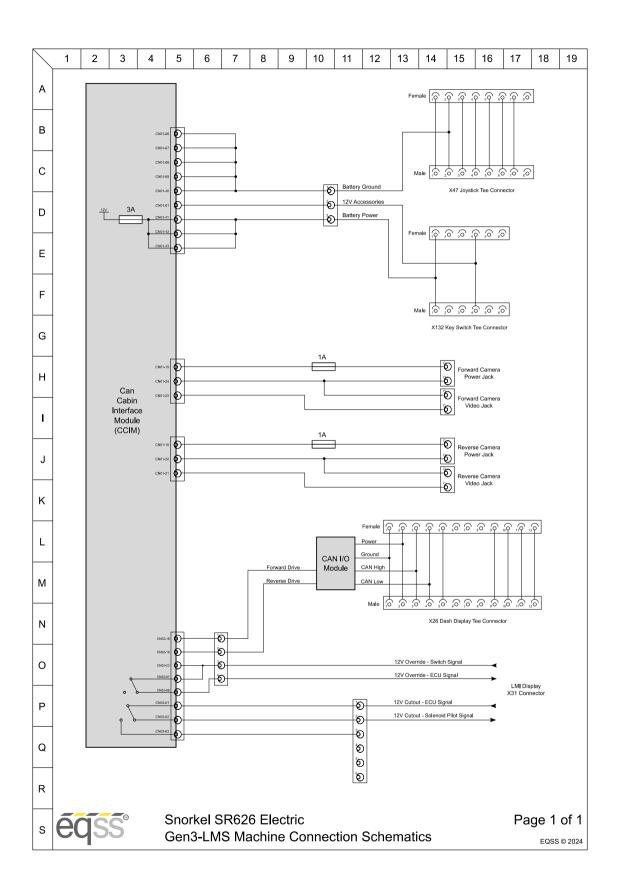
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### **Schematics**



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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 19: 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 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 20: Reattach Ferrites Procedure

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