eqss™ Gen-3 LMS
Telehandler Load Management System

Installation Manual for T40180 – 2022 Model

WARNING!
DO NOT HIGH PRESSURE WASH ANY OF THE GEN3 COMPONENTS. FAILURE TO FOLLOW THIS WARNING WILL VOID WARRANTY

*****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in this publication regarding this device's applications and the like is provided only for your convenience and may be superseded by updates.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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Table of Contents

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
  - 6.8 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
  - 10 mm
  - 13 mm
- Locktite thread locker
- Side cutters
- Stanely knife
- Crimpers
- Wire strippers
- Torque Wrench

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	Lock Pin Release Connection
7	Forward Camera
8	Signal Light

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 Harness
Orange	Lock Pin Release Harness
Light Green	Forward Camera Cable
Brown	Signal Light Cable
Dark Purple	CCIM Cable

Table 2: Cable Installation Index

Illustration 1: Machine Boom

Note: The photo above doesn't show the boom lights and boom light cable that the boom cable is attached to.

Illustration 2: Machine Chassis

Covers

Remove the following covers before starting the installation

Step	*Description*	*Diagram*
1.	Remove the rear covers.	
2.	Remove the cover behind the cabin	
3.	Remove the cover in front of the cabin behind the front left wheel.	

Step	*Description*	*Diagram*
4.	Undo the bolts attaching the dashboard.	
5.	Remove the cover under the dashboard	
6.	Remove the switch panel on the side of the cabin and the joystick panel	

Step	*Description*	*Diagram*
7.	Remove the cover behind the joystick to route the light tower cables	

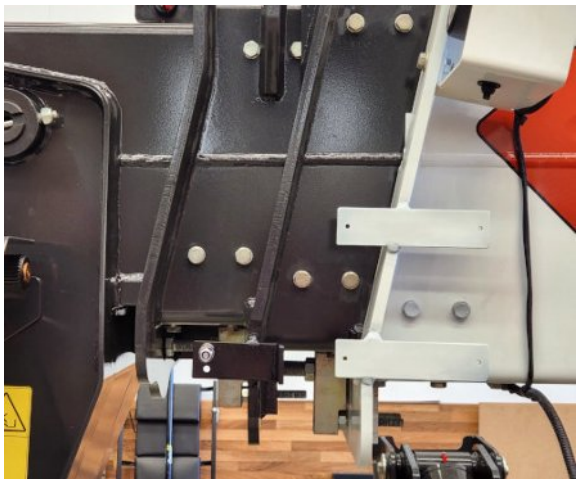
Table 3: Cover removal

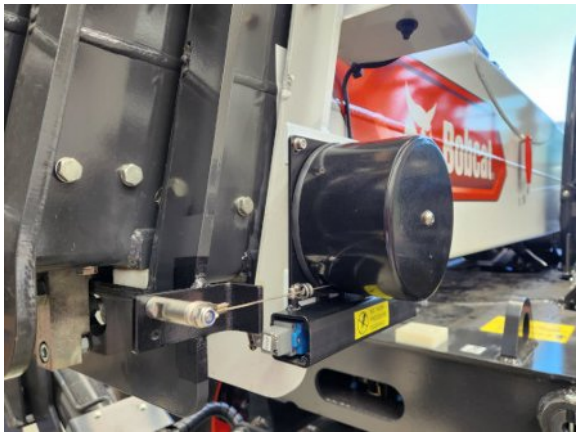
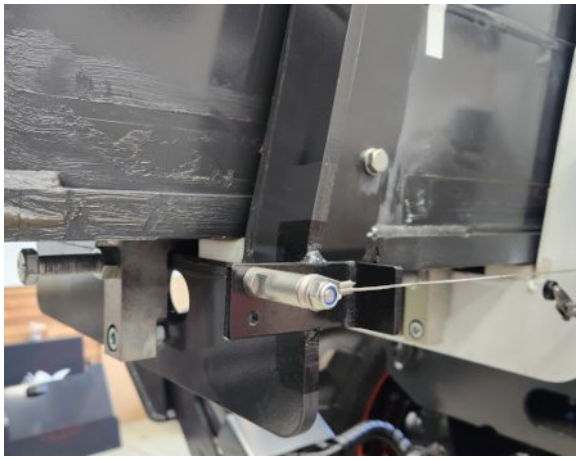
Cable Reeler Installation

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.

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.	Weld the cable reeler mounting brackets to the boom according to the mounting diagram on page 16. Note: Attach the cable reeler to the brackets to use as a welding guide. Note: After the brackets are welded they will need to be sealed and painted to protect against rust.	
2.	Mount the cable reeler to the mounting brackets and secure using the supplied M6 bolts and washers.	

Step	*Description*	*Diagram*
3.	Weld the stow switch and anchor mounting bracket to the first extendable section, in position that will trigger the stow switch when the boom is retracted. Note: Ensure the mounting bracket is welded on the first extendable section not on the last section. If welded on the last section the cable reeler will be damaged when the boom is extended.	
4.	Mount the cable anchor to the bracket and attach the cable.	
5.	Connect the supplied M12 10 metre cable (CB001027) into the cable reeler connection.	

Step	Description	Diagram
6.	Run the cable below the boom and secure to the boom lights down to the base of the boom. Run the remainder of the cable towards the cabin and cable tie with the rest of the cables during External Cable Completion on page 28.	

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

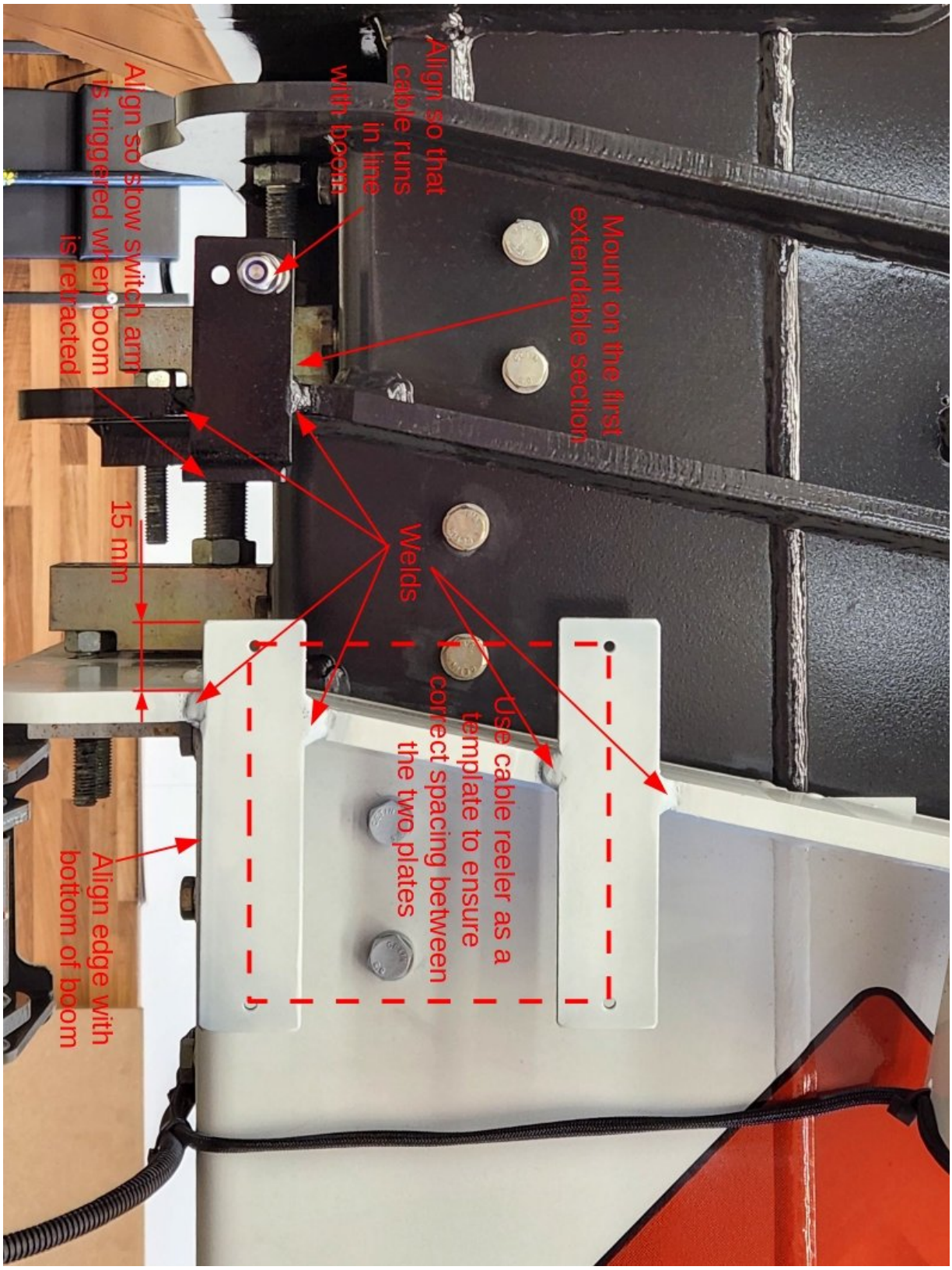


Illustration 3: Cable Reeler Mounting Position

Pressure Sensor Installation

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

Pressure Manifold

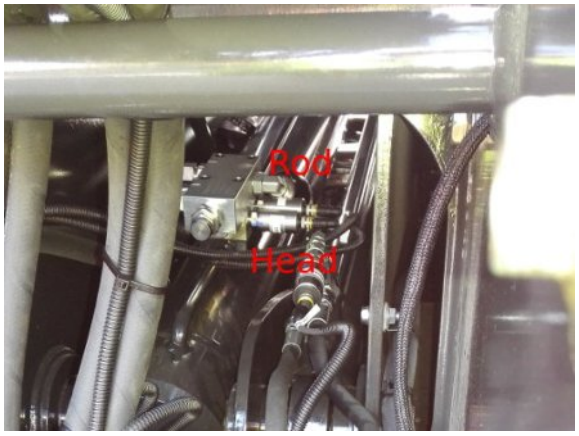
Step	*Description*	*Diagram*
1.	Raise the boom to approximately 40 degrees. Support and secure the boom using an A Frame or similar apparatus. **It must support at least 2 tons.** Apply the handbrake and insert chock under wheels. Remove the counterbalance valve on the side of the hydraulic lifting ram. **Removing the counterbalance valve will release the hydraulic pressure which may result in a spray of oil.** Secure the pressure manifold using the supplied bolts and seals. Tighten the **12.9 grade** bolts for the manifold to **41 NM** using a torque wrench. **Start the machine, pressurise the boom and check for leaks.**	 View from behind the machine towards the lift cylinder
2.	Connect the supplied M12 4 metre cables (CB001026) into each of the pressure sensors. 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 snake tube and cables towards the cabin and cable tie with the other cables during External Cable Completion on page 28.	 View from behind the machine towards the lift cylinder

Table 5: Pressure Manifold Installation

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

Compensation Pressure Sensors

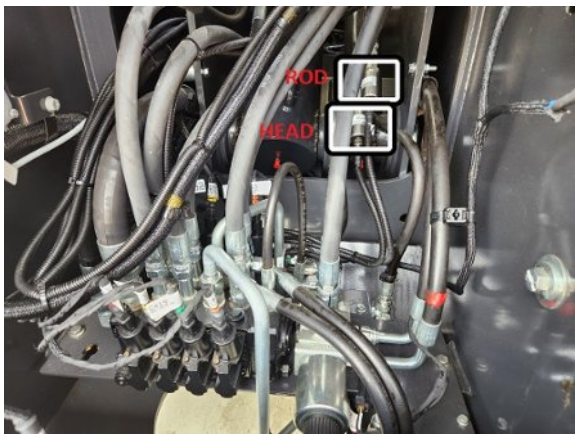
Step	*Description*	*Diagram*
1.	Undo the hydraulic connection for the head compensation into the manifold block at the rear of the machine. Install the supplied tee piece and pressure sensor in line with the hydraulic connection.	 View from under the boom towards the rear of the machine
2.	Undo the hydraulic connection for the rod compensation into the compensation cylinder. Install the supplied tee connections with the pressure sensors pointing back towards the rear of the machine. **Start the machine, pressurise the boom and check for leaks.**	 View from under the boom towards the rear of the machine
3.	Connect the supplied M12 4 metre cables (CB001026) into each of the pressure sensors. Run the cables towards the cabin and cable tie with the other cables during External Cable Completion on page 28.	 View from behind the machine

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

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 the system.

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 side of the chassis under the boom. Mount using the supplied M8 bolts.	 Note: Height limiter cable is not shown in picture
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 28.	

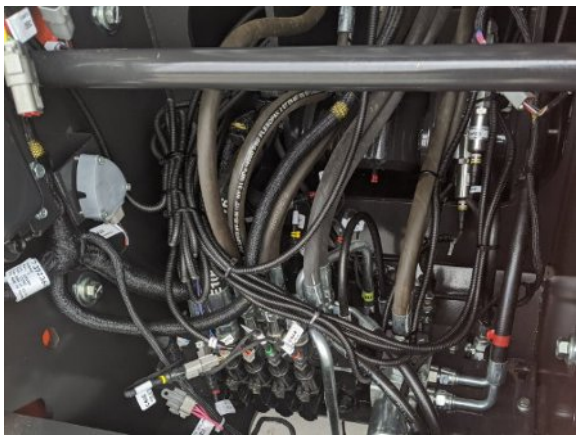
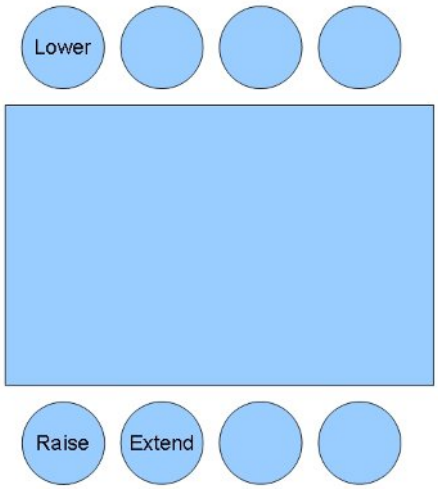
Step	Description	Diagram
3.	Run the height limiter cable from out the left side of the CPIM to the hydraulic block at the rear of the machine. Connect the tee connector labelled “Raise” from the height limiter cable to the boom raise (bottom left) connector on the hydraulic block and the tee connector labelled “Extend” from the height limiter cable to the boom extend (down second from 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 not move. Complete the cable installation during External Cable Completion on page 28.	  Note: The location of the connectors in the picture above may not match the machine, check the label on the connector

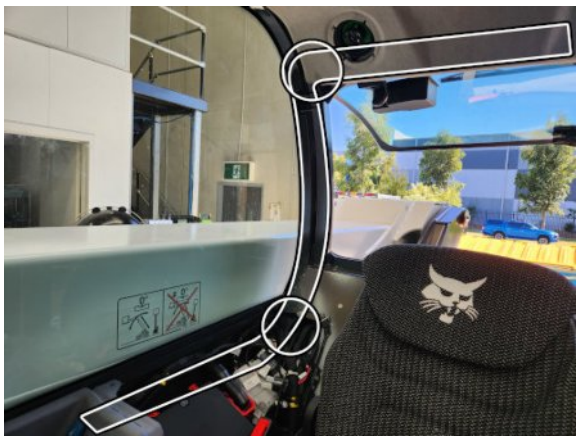
Table 7: Can Pressure Input Module (CPIM) Installation

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 to the top of the cabin using the magnetic anchor.	 View from on top of the cabin
2.	Inside the cabin, remove the roof cover behind the seat leading to the joystick.	 View from drivers seat to the roof

Step	*Description*	*Diagram*
3.	Cut the signal light cable approximately 300 mm from the end of the M12 connector. Feed the cable through one of the existing grommets for the rotating beacon 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.	Run the cable along the same path as the existing cables under the roof cover to the hole for the cable channel down to the chassis.	 View from behind the rear left wheel behind the cabin
5.	Run the cable through the cable channel then out the hole near the fuse panel location (see the circular highlights in the adjacent picture), then follow the existing cable path towards the dashboard and secure using cable ties. Note: Use a cable guide to run the cable through the cable channel	

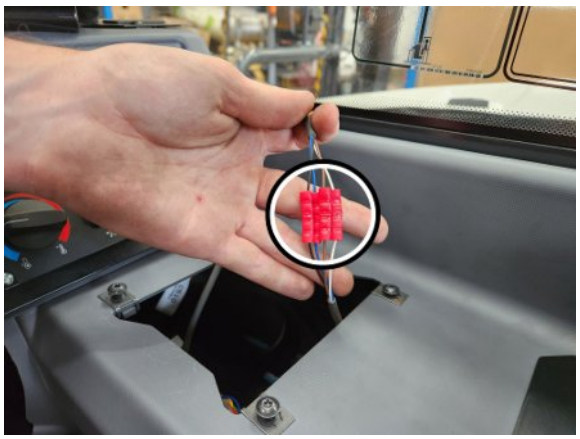
Step	*Description*	*Diagram*
6.	Inside the cabin, reconnect the 4 wire cable using the supplied crimp joiners. Secure the joined connections using electrical tape (not shown) Note: The light tower cable will be connected during Finalisation on page 42.	

Table 8: Signal Light Installation

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.

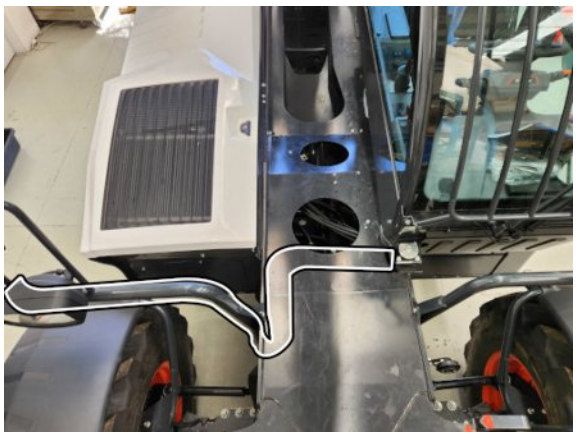
Step	*Description*	*Diagram*
1.	Mount the camera to the side mirror post using the p-clips as shown. Secure using two M6 nuts.	
2.	Connect the camera power and signal connectors to the supplied 5m camera cable (CB001032). Note; The white connector is not used. Run the cable along the same path as the headlight cable through the headlight post. Run the remainder of the cable towards the cabin following the headlight cable and insert into cabin during External Cable Completion on page 28.	

Table 9: Forward Camera Installation

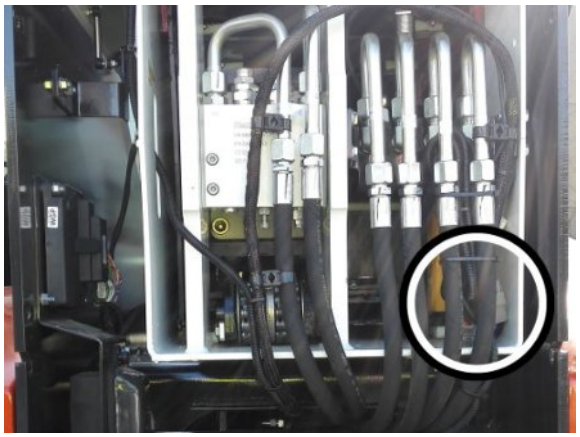
The camera's viewing angle may need to be adjusted once the system is installed and the display is operational.

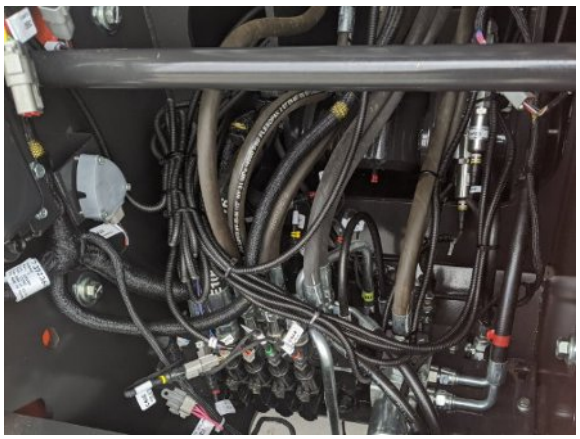
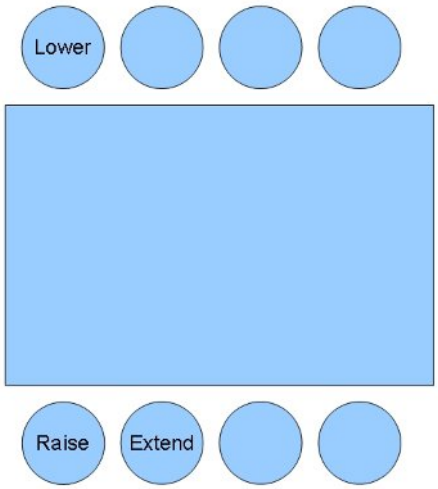
For further details on running the camera cable refer to the Installation Index on page 6

External Cable Completion

All external cabling is completed in this step.

Step	*Description*	*Diagram*
1.	Locate the cable entrance hole from the inside of the cabin to the outside of the chassis, located inside the dashboard to outside the front of the cabin.	 View from behind the front left wheel towards the cabin
2.	Run the connector pairs from the cutout and lock pin release harnesses through the connector hole from inside the cabin to the outside of the chassis.	
3.	Connect the supplied M12 4 metre cable (CB001026) into the right side of the CPIM for the CCIM cable.	

Step	*Description*	*Diagram*
4.	Run the cutout and lock pin release harnesses along the same path under the chassis covers as the existing electrical harnesses towards the spool assembly at the rear of the machine. Run the CCIM cable along the same path as the existing electrical harnesses and through the hole into the cabin.	
5.	Run the eight pin connectors on the lock pin release harness up to the connection to the cable running up through the boom and secure in place using cable ties. This will be connected during Finalisation on page 42.	 View from rear of machine

Step	Description	Diagram
6.	Run the two pin connectors on the cutout harness down to the boom lower connector on the hydraulic block and secure in place using cable ties. This will be connected during Finalisation on page 42.	  Note: The location of the connectors in the picture above may not match the machine, check the label on the connector
7.	Coil up the additional cabling for the pressure sensor, CCIM and boom cables and store under the cabin behind the CPIM.	 View from behind the cabin

Step	*Description*	*Diagram*
8.	Run the CCIM and camera cable up through the hole into the cabin. Note: Pull a short length of cable through into the cabin. Store excess cable under the cabin.	

Table 10: External Cable Completion

Display Installation

The display shows the current safety status of the telehandler.

Step	*Description*	*Diagram*
1.	Remove the rear mirror from the right column. Use the existing bolts to mount the display adaptor bracket to the rear mirror mount.	

Table 11: 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 52 for the correct method of attaching to the display connectors.

User Control

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

Step	*Description*	*Diagram*
1.	Drill a 39 mm hole into the switch panel below the dashboard as shown. Install the user control dial in the dashboard, aligned so the Enter cap is facing up.	

Table 12: User 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 52 for the correct method of attaching to the display connectors.

Can Cabin Interface Module (CCIM)

The CCIM connects the system into the machine electronics.

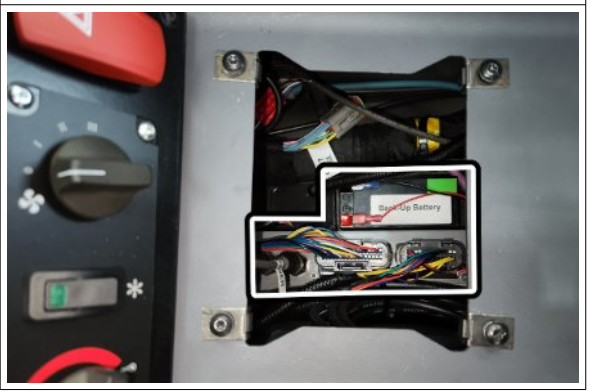
Step	*Description*	*Diagram*
1.	Install the CCIM and backup battery onto the flat plate under the switch board cover beside the joystick in the location shown.	
2.	Secure in place using velcro tape. Remove the battery and CCIM from the velcro to allow the connections to be completed. Reattach to the velcro in the section Finalisation on page 42.	

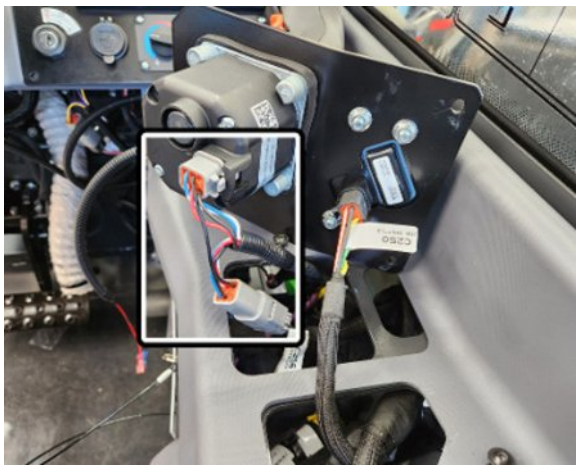
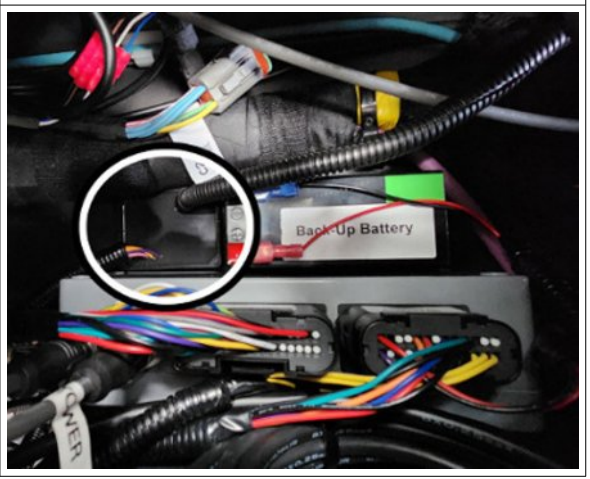
Table 13: CCIM Installation

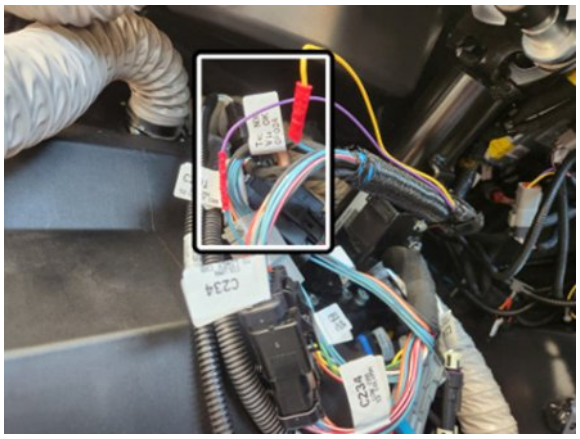
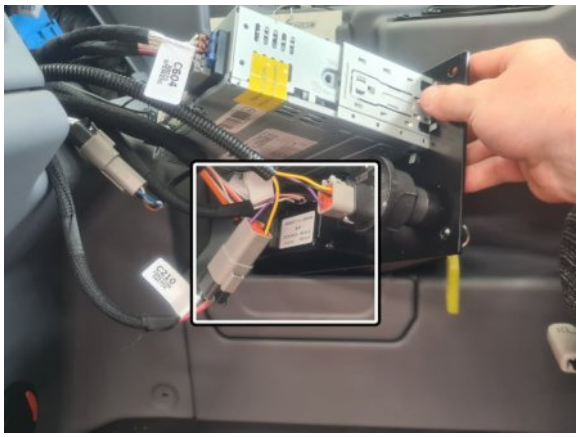
Machine Connections

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.	Remove the plate holding the joystick. Connect the 6 pin tee connectors from the CAN I/O module harness into the joystick connector C256.	
2.	Secure the CAN I/O module onto the flat plate under the switch board cover next to the CCIM module using velcro tape.	

Step	*Description*	*Diagram*
3.	Locate connector C234 in the set of connectors on the harness running to the steering wheel switches under the dashboard panel.	
4.	Cut the blue wire #3310 and join the violet wire from the CAN I/O module to the wire running to the steering wheel switches. Join the other side of the wire to the yellow wire from the CAN I/O module. Secure the wire joins with electrical tape.	 View behind the dashboard Note: The picture above doesn't show the electrical tape.
5.	Locate the ignition key switch terminal C210 in the removable dashboard panel. Connect the 6 pin tee connection on the power harness into the C210 connector.	 View behind dashboard panel

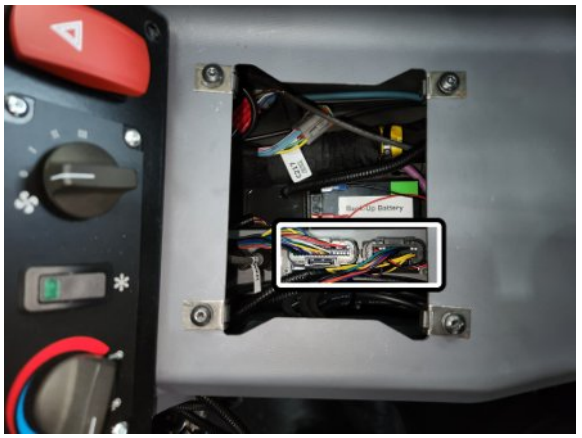
Step	*Description*	*Diagram*
6.	Connect the male spade terminal from the power harness to the female spade terminal on the CAN I/O module harness for the ground connection.	 View from under the joystick plate cover.

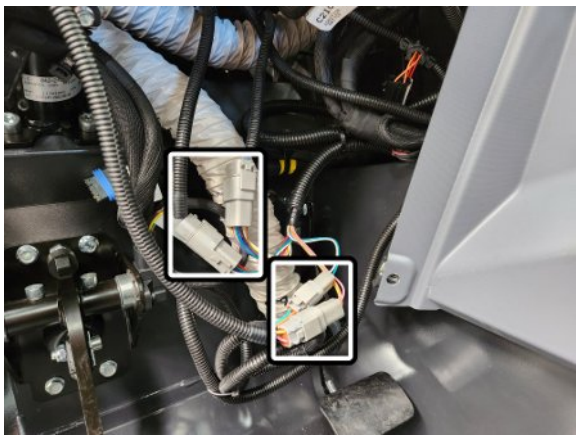
Table 14: Machine Connections

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.	
2.	Connect the power/camera and IO harnesses to the CCIM bulk head connectors	
3.	Connect the forward camera cable to the power/camera harness. Note; The rear camera connections are not used and the white connector is not used.	

Step	*Description*	*Diagram*
4.	Connect the 2 pin connector from the CAN I/O module harness into the IO harness. Connect the 4 pin connector from the CAN I/O module harness into the IO harness. Connect the 6 pin connector from the machine cutout harness to the IO harness. Connect the 12 pin connector from the lock pin release harness to the IO harness.	
5.	Run the 8 pin CCIM cable and the 5 pin user control cable through the gap between the window and the dashboard. Note: The clip-on ferrites will need to be removed to run the cables through the gap between the window and the dashboard. Reattach the ferrites according to Appendix A: Attaching Display Connectors on page 51.	

Step	Description	Diagram
6.	Run the cables through snake tube. Cable tie to the tube running to the LMI. Connect into the 8 pin and 5 pin connectors into the display	
7.	Connect the spade lug on the black wire to the negative (black) battery terminal on the backup battery. Connect the spade lug on the blue wire to the positive (red) battery terminal on the backup battery.	

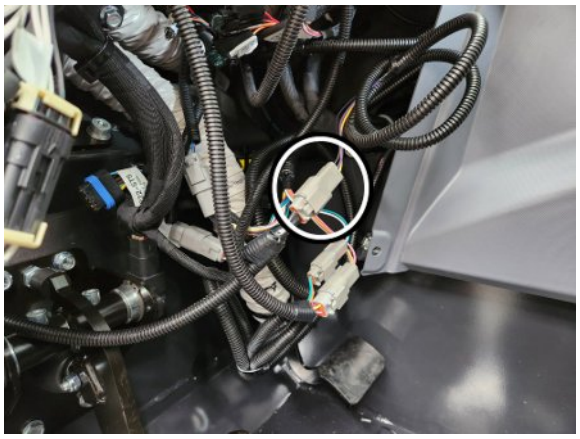
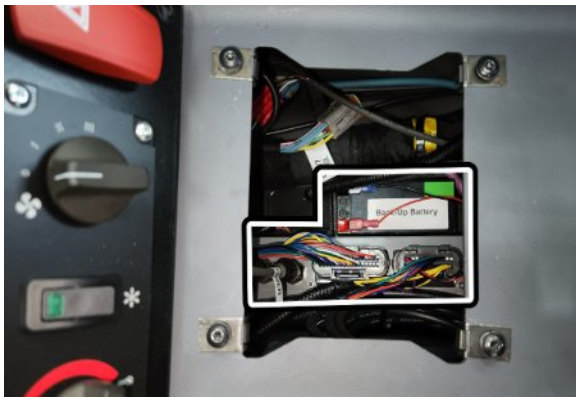
Table 15: Cabin Loom Installation

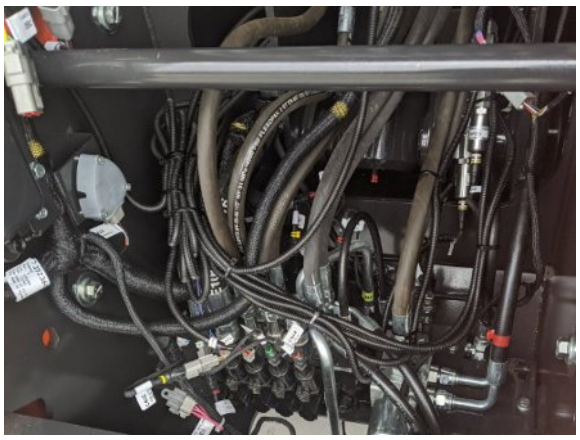
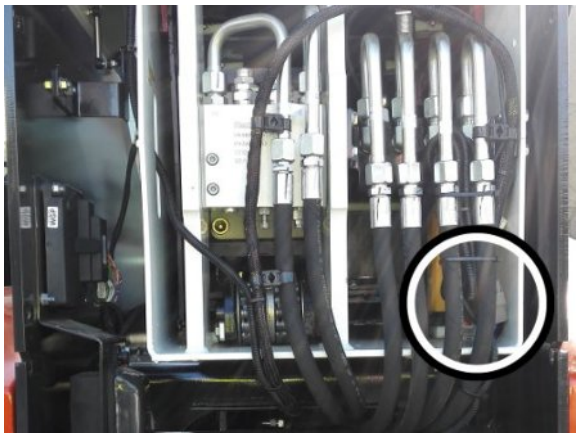
If the M12 screw lock connectors on the display are over tightened it will twist the connector pins attaching the connector to the PCB. See Appendix A: Attaching Display Connectors on page 51 for the correct method of attaching to the display connectors.

If the clip-on ferrites were removed from the CCIM and user control cables. See Appendix B: Reattach Ferrites and page 55 for the correct reattachment position.

Finalisation

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

Step	*Description*	*Diagram*
1.	Connect the 3 pin connector from the radio power harness into the power/camera harness. Coil up and store the wire harnesses under the dashboard.	
2.	Attach the backup battery to the velcro on the CCIM and attach the CCIM to the velcro installed earlier to the cabin chassis	

Step	*Description*	*Diagram*
3.	Reconnect the tee connectors back into the spool assembly and the lock pin cable through boom connection. Note: Make sure the connections for the cable through boom are placed behind the hydraulic pipes so as not to get crushed against the rear cover once installed.	 View from rear of machine  View from rear of machine
4.	Turn the machine onto first stage /accessories and ensure the system is activated. Adjust the display bracket for optimal viewing Press the top of the Camera switch to active the forward camera. Adjust the forward camera so the front right wheel is visible.	

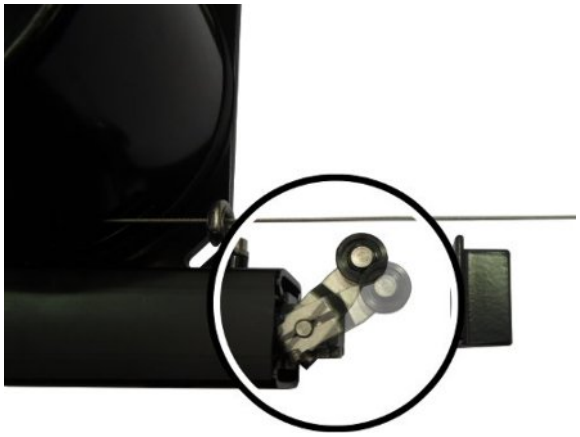
Step	*Description*	*Diagram*
5.	Operate the boom movement controls to test if a false N07 fault occurs. If a N07 fault does occur, adjust the arm on the stow switch forwards towards the stow switch trigger. Note: The actual switch arm orientation may differ from the picture.	
6.	Perform a final check on all the cabling and sensors. Replace all the covers	

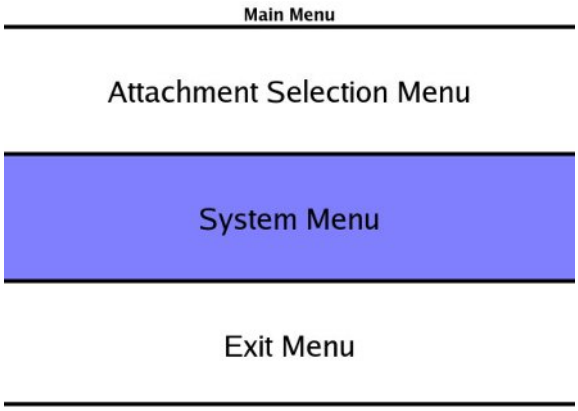
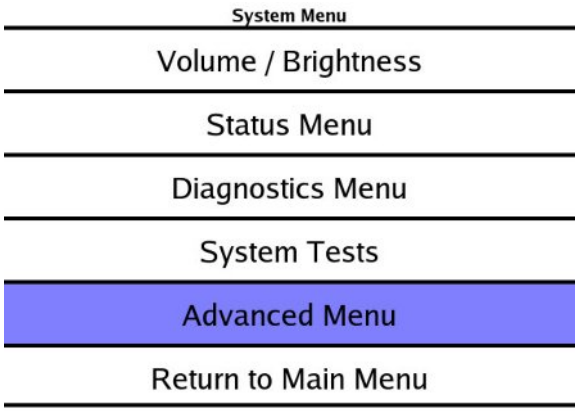
Table 16: Finalisation

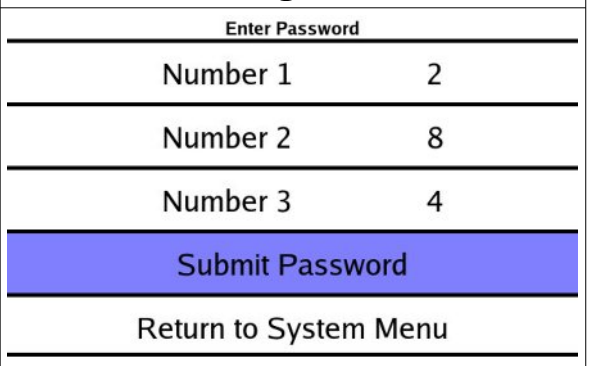
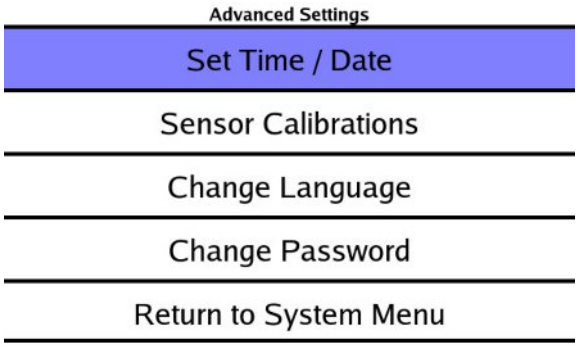
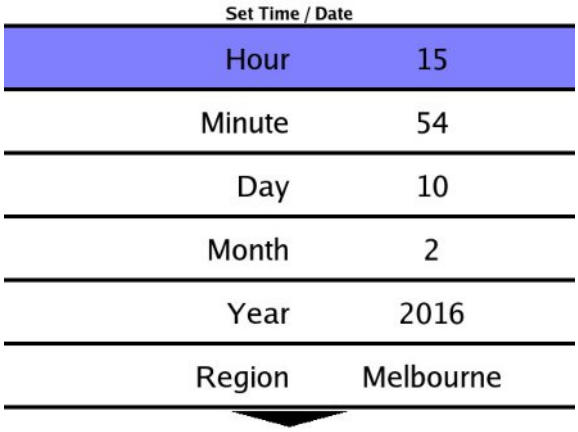
Complete the system checklist once installation has been completed.

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 to enter the menu system. Press the arrow buttons to select System Menu. Press Enter to select the menu.	
2.	Select Advanced Menu	

Step	*Description*	*Diagram*
3.	Enter the password (Default Password: 2-8-4)	
4.	Select Set Time / Date	
5.	Enter the correct time and date for your area. Press the arrow keys to select a time/date parameter 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. Note: The hour parameter is in 24 hour clock Repeat for the rest of the time values	

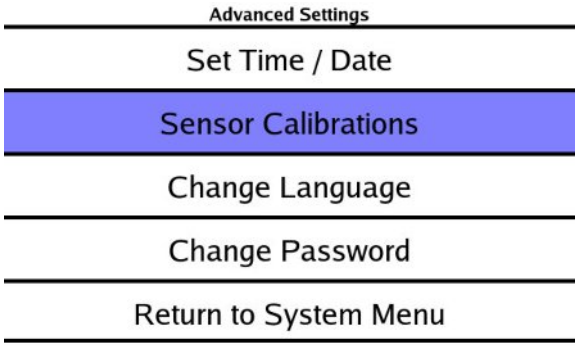
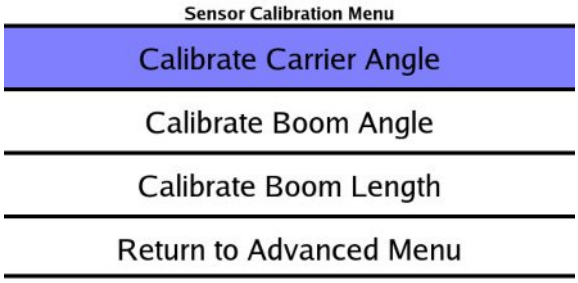
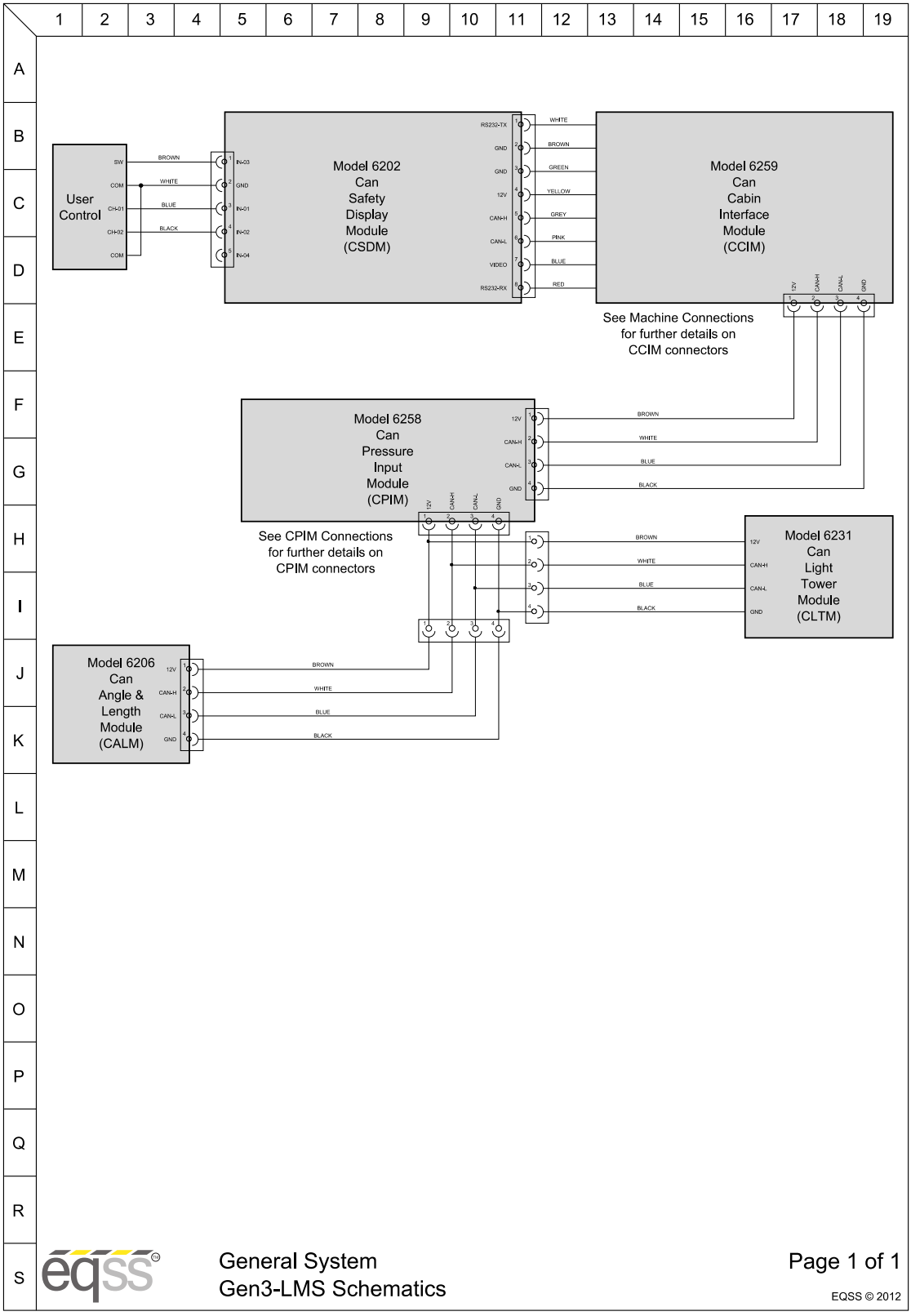
Step	Description	Diagram
6.	Scroll to the next page and select Save to store the new time/date and return to the Advanced Menu.	
7.	Select Sensor Calibrations	
8.	Select Calibrate Carrier Angle and then follow the instructions on the screen to complete the calibration. Repeat for Calibrate Boom Angle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

Table 17: Sensor Calibration

Schematics


1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19
A B C D E F G H I J K L M N O P Q R S
User Control
SW
COM
CH-01
CH-02
COM
BROWN
WHITE
BLUE
BLACK
IN-03
GND
IN-01
IN-02
IN-04
Model 6202 Can Safety Display Module (CSDM)
RS232-TX
GND
GND
12V
CAN-H
CAN-L
VIDEO
RS232-RX
WHITE
BROWN
GREEN
YELLOW
GREY
PINK
BLUE
RED
Model 6259 Can Cabin Interface Module (CCIM)
12V
CAN-H
CAN-L
GND
See Machine Connections for further details on CCIM connectors
Model 6258 Can Pressure Input Module (CPIM)
12V
CAN-H
CAN-L
GND
BROWN
WHITE
BLUE
BLACK
See CPIM Connections for further details on CPIM connectors
Model 6231 Can Light Tower Module (CLTM)
12V
CAN-H
CAN-L
GND
BROWN
WHITE
BLUE
BLACK
Model 6206 Can Angle & Length Module (CALM)
12V
CAN-H
CAN-L
GND
BROWN
WHITE
BLUE
BLACK
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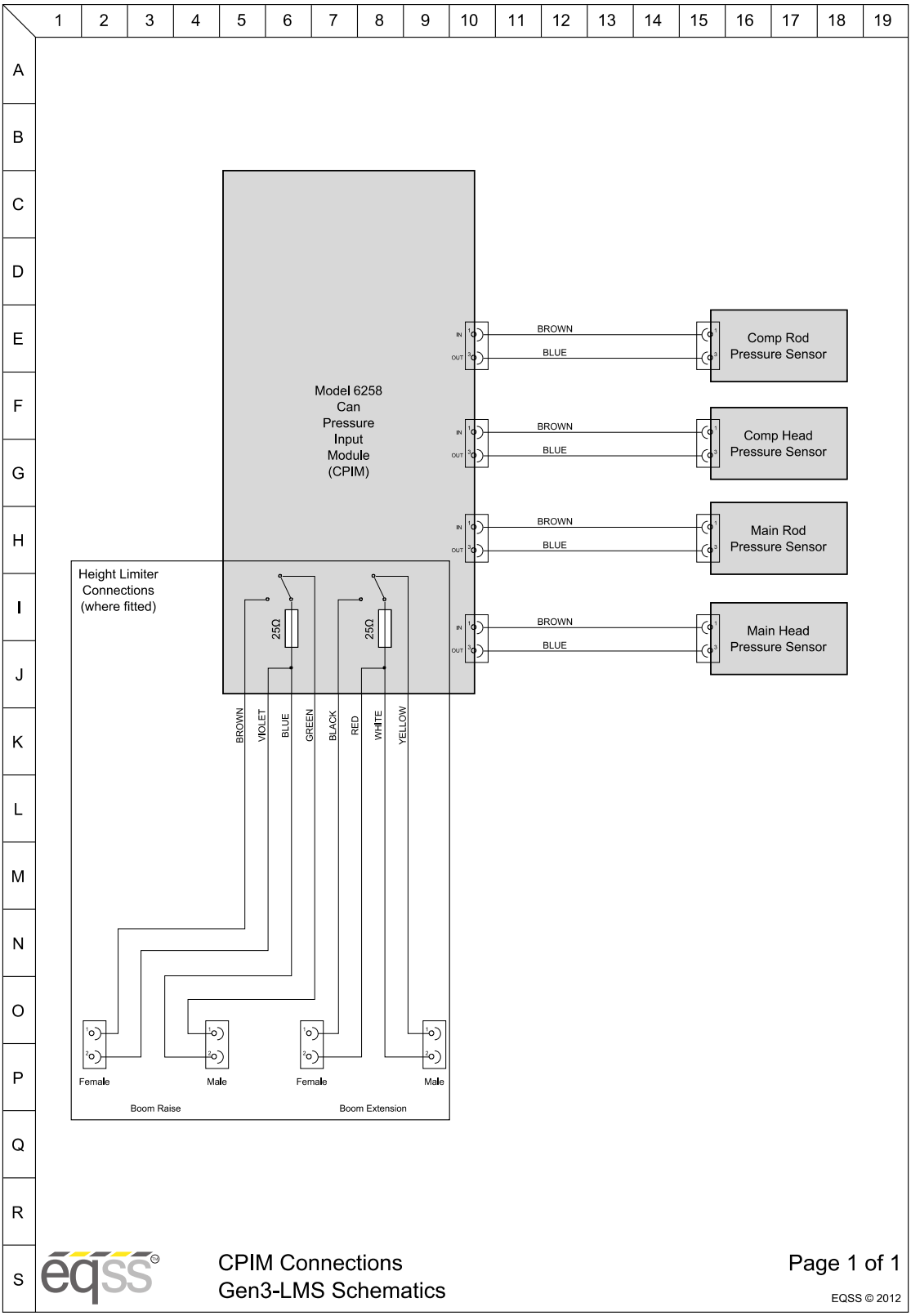
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19
A B C D E F G H I J K L M N O P Q R S
Model 6258
Can
Pressure
Input
Module
(CPIM)
IN
OUT
BROWN
BLUE
Comp Rod
Pressure Sensor
Comp Head
Pressure Sensor
Main Rod
Pressure Sensor
Main Head
Pressure Sensor
Height Limiter
Connections
(where fitted)
25Ω
25Ω
BROWN
VIOLET
BLUE
GREEN
BLACK
RED
WHITE
YELLOW
Female
Male
Female
Male
Boom Raise
Boom Extension
CPIM Connections
Gen3-LMS Schematics
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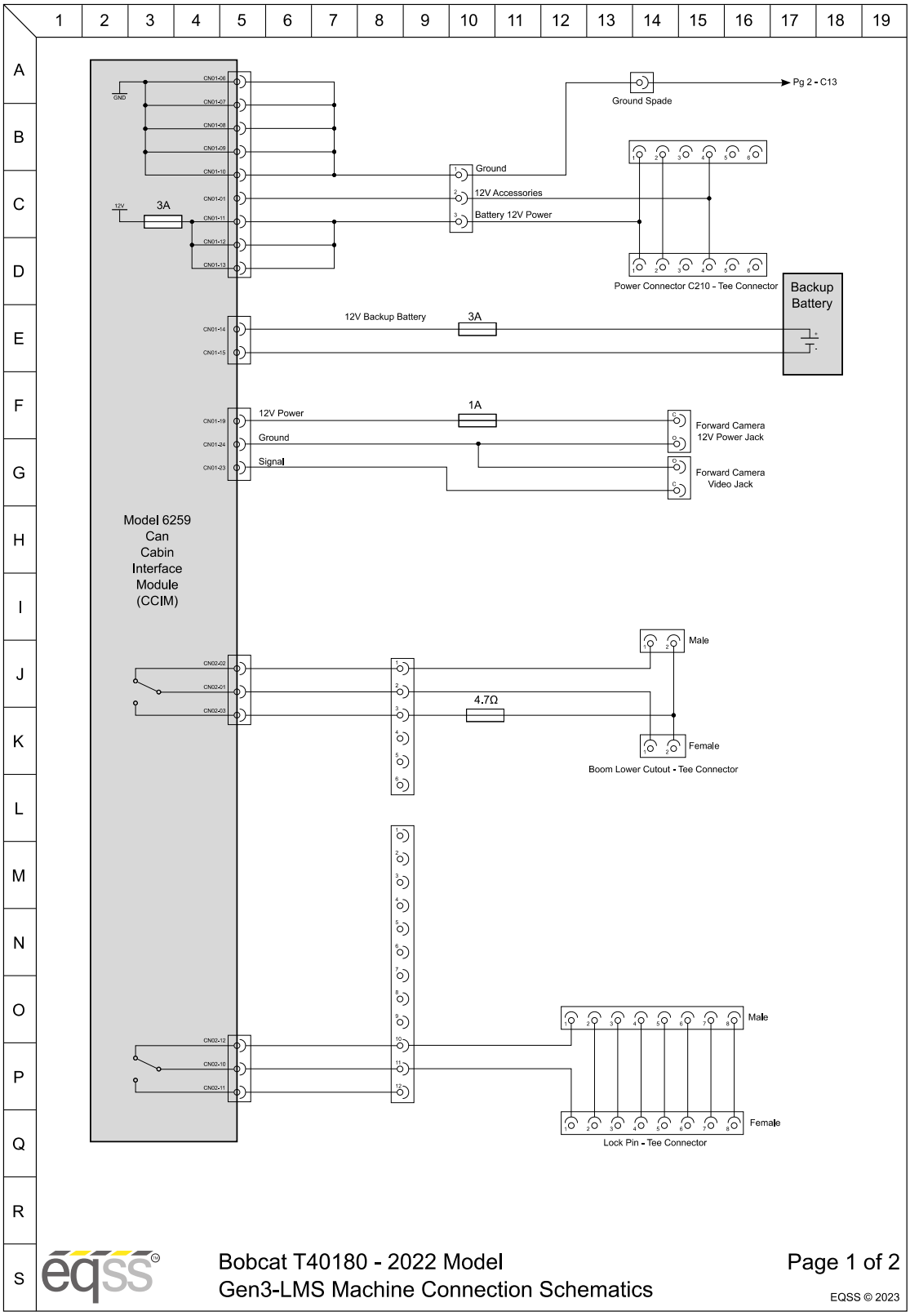
EQSS © 2012



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Gen3-LMS Machine Connection Schematics

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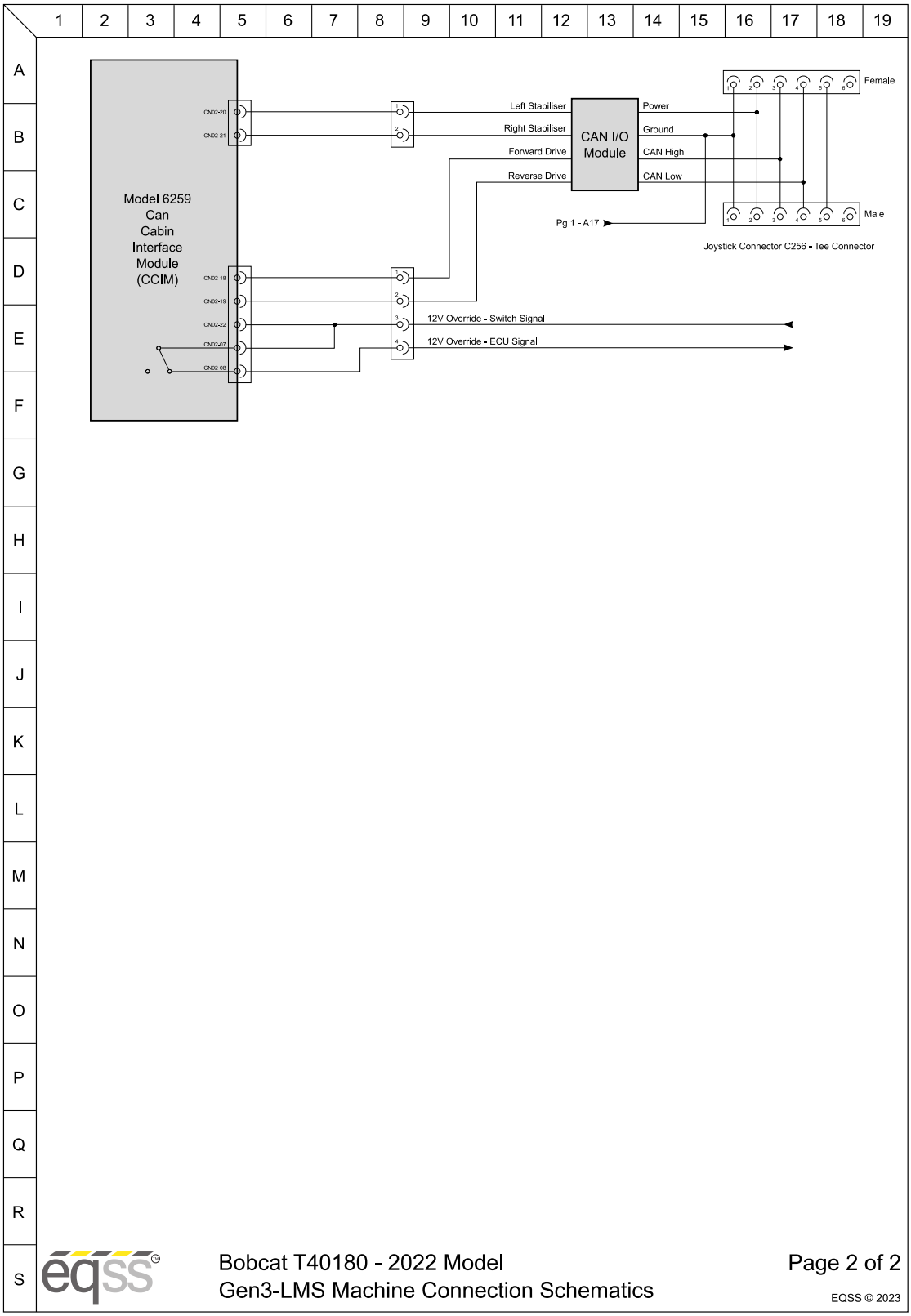
Model 6259
Can
Cabin
Interface
Module
(CCIM)
CN02-20
CN02-21
CN02-18
CN02-19
CN02-22
CN02-07
CN02-08
Left Stabiliser
Right Stabiliser
Forward Drive
Reverse Drive
CAN I/O
Module
Power
Ground
CAN High
CAN Low
Pg 1 - A17
Female
Male
Joystick Connector C256 - Tee Connector
12V Override - Switch Signal
12V Override - ECU Signal
Bobcat T40180 - 2022 Model
Gen3-LMS Machine Connection 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.	
2.	Line up the alignment hole on the cable connector with the alignment notch on the display connector.	

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.

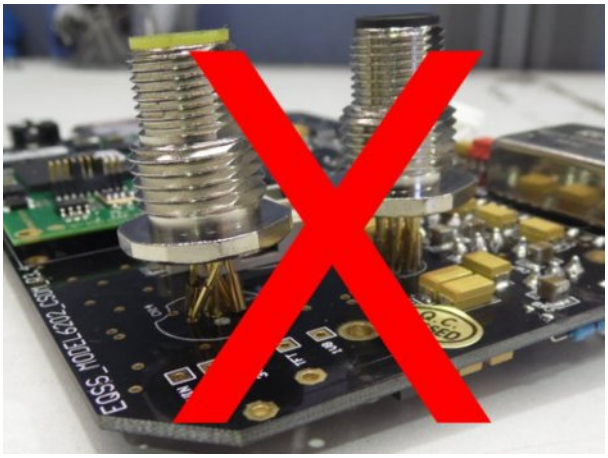


Illustration 4: Damaged Display Connector

Do not use any tools to tighten the connector.

Illustration 5: Do Not Use Tools To Tighten Connector

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.

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.

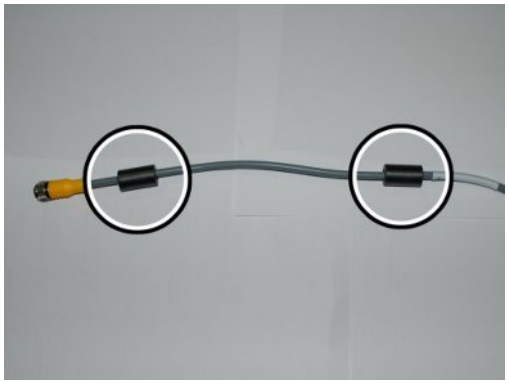
Step	*Description*	*Diagram*
1.	Attach the two clip-on ferrites at a location of 60 mm and 260 mm from the start of the connector to the start of the ferrite. Do this for both the CCIM and user control cables that plug into the display.	

Table 19: Reattach Ferrites Procedure

Indexes and Tables

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Equipment Safety Systems Pty. Ltd. ABN: 31 061 789 151
75 Naxos Way, Keysborough 3173, Victoria, Australia

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