INSTALL MANUAL

EQSS Model6253 – OverWatch
Haulotte Compact AE Series

**** Failure to follow this installation manual will void warranty ****

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DOCUMENT ABSTRACT:
This manual details the installation of the OverWatch on a Haulotte Compact AE Series scissor lift.

PRODUCT NAME:
Model6253 OverWatch Operator Detection System

REFERENCE DOCUMENTS:
DO0001195 Model6253 OverWatch User Manual

CURRENT DOCUMENT REVISION:
1.3

REVISION INFORMATION:

- 1.0 Initial document creation for installation on a Haulotte Compact AE electric scissor lift
- 1.1 Update on AS002004 rev2.0 Harness drawing
- 1.2 Added Elevate adapter harness for Compact Dual
- 1.3 Update of system test procedures to include OverWatch App

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in this publication regarding this device's applications and the like, is provided only for your convenience and may be superseded by updates.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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N23041

This is a class A product certified to AS/NZS CISPR 22:2006. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.

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Preparation

Required Tools

The OverWatch has been designed to be fitted using basic workshop tools. Shown below is a list of tools required to complete the installation

Item	Tool / Description
1	Electric Drill
2	Centre punch
3	Hammer
4	Side Cutters
5	Drill 5.2mm
6	Drill 6.0mm
7	Metric sockets or spanners
8	Needle nose pliers
9	Screw drivers

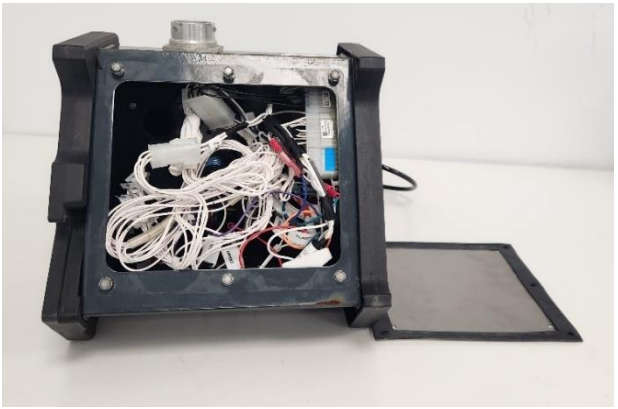
Installation Time

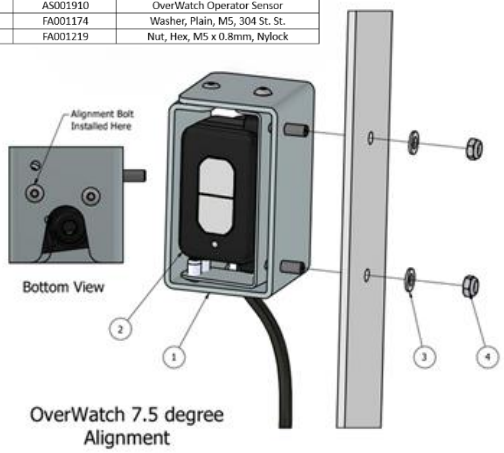
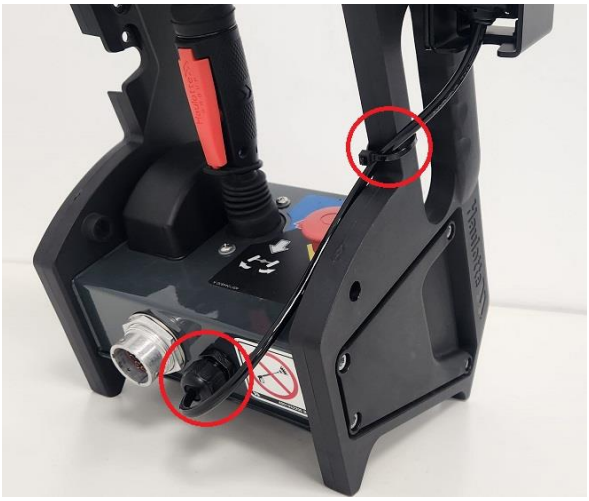
The suggested time required to install the OverWatch is as detailed below

Task	Estimated Time (Minutes)
Drilling of all mounting holes for the various components	15
Mechanical assembly	10
Electrical assembly	10
Post installation system tests	10
Total	**45**

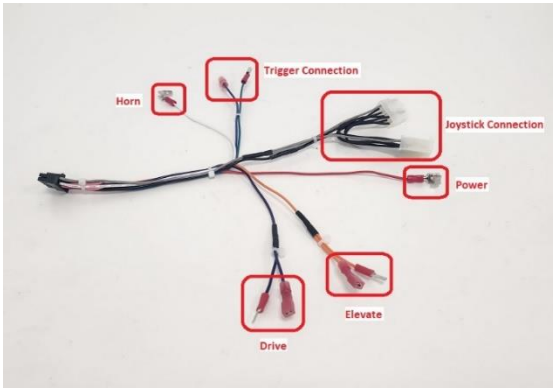
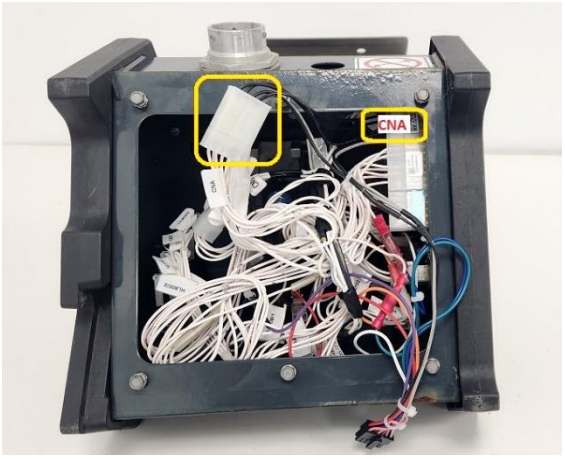
Installation Instructions

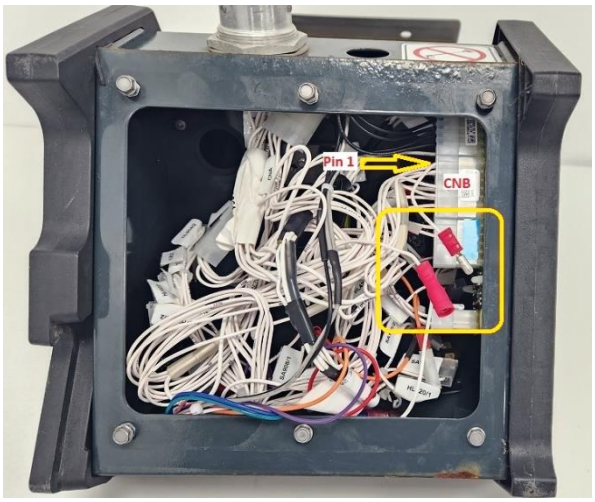
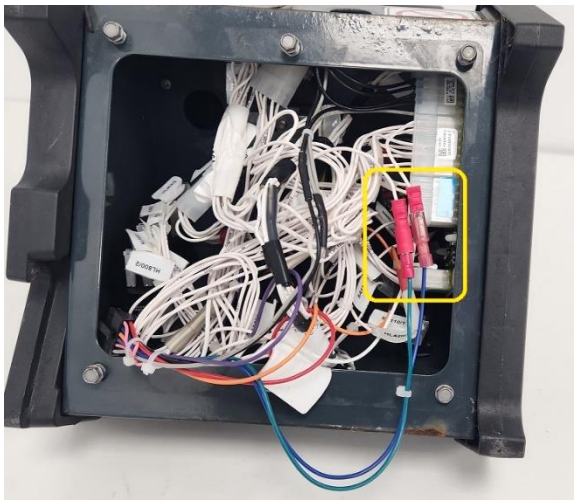
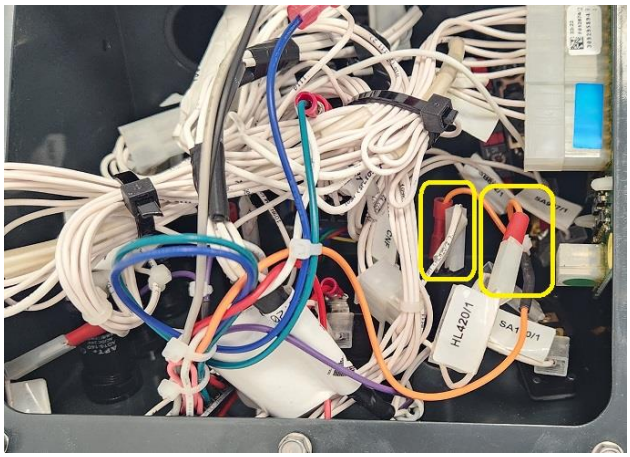
Operator Sensor

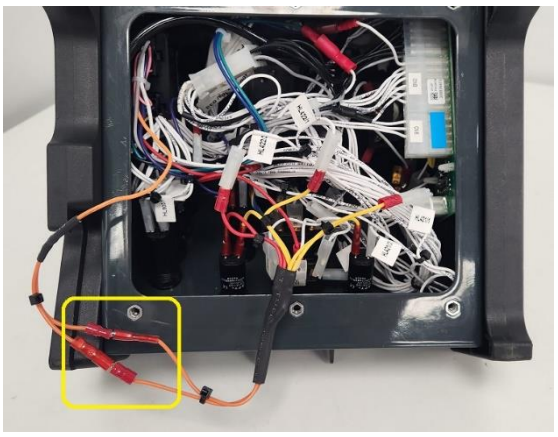
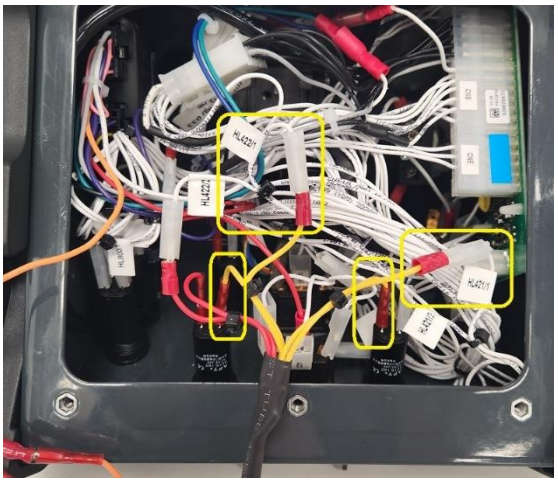
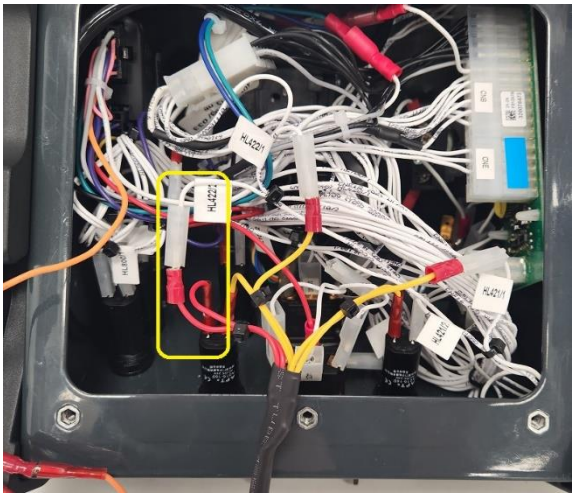
Step	Description	Diagram
1.	Remove the bottom cover of the control box.	
2.	Drill a 20mm hole at the back of the control box as shown in the image. If the control box already has a predrilled hole simply remove the plastic plug. **Note: If drilling a new hole, make sure that no metal swarf remains inside the box.**	

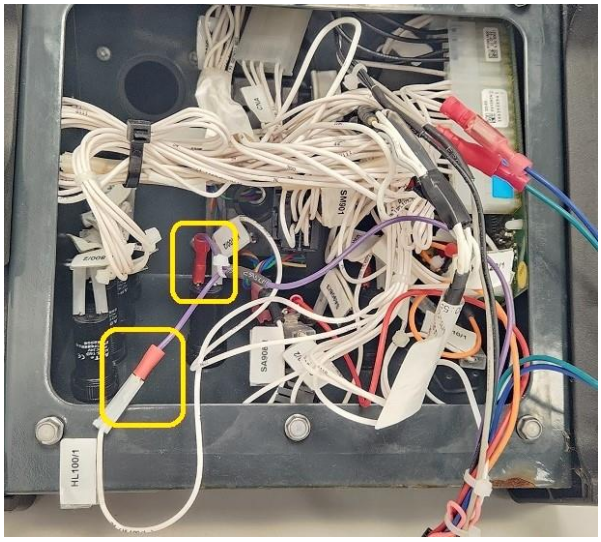
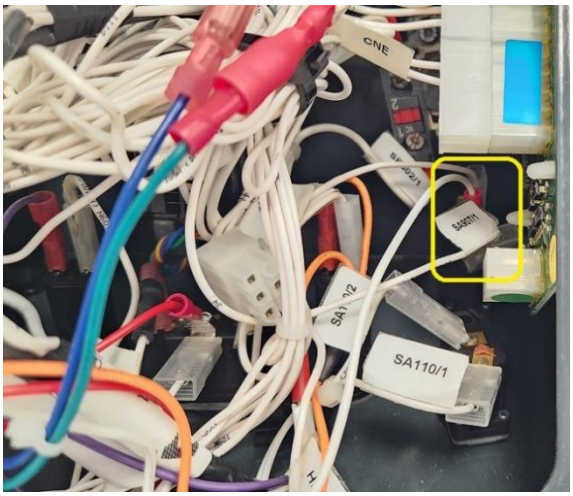
3.	**Sensor Mounting Guard** Attach the operator sensor and guard to the mounting bracket in position using the M5 nuts and washers. Make sure that the sensor is on the 7.5-degree angle, such that it is twisted outwards from the joystick controller. **The 7.5-degree twist is achieved by rotating the sensor inside the assembly and using the bolt hole as show in the image.**	PARTS LIST ITEM / QTY / PART NUMBER / DESCRIPTION 1 / 1 / ME001889 / OverWatch Sensor Bracket 2 / 1 / AS002326 / Sensor Mounting Guard V2 3 / 1 / AS001910 / OverWatch Operator Sensor 4 / 2 / FA001174 / Washer, Plain, M5, 304 St. St. 5 / 2 / FA001219 / Nut, Hex, M5 x 0.8mm, Nylock  OverWatch 7.5 degree Alignment
4.	Remove the two bolts on the left side of the control box and attach the sensor bracket in the same location as shown in the image.	
5.	Install the cable gland and run the operator sensor cable as shown in the image and secure using a cable tie.	

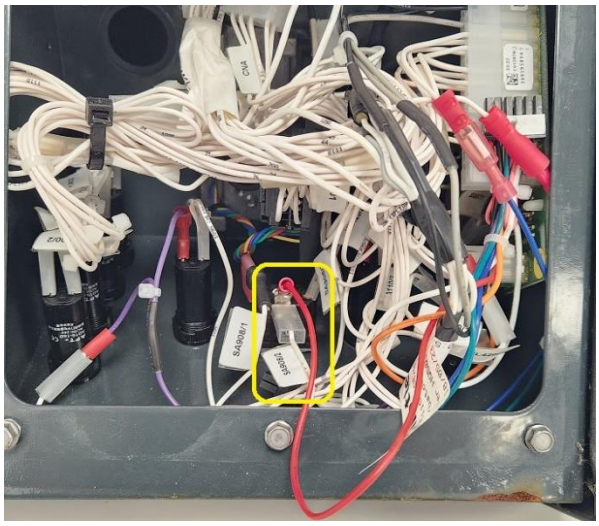
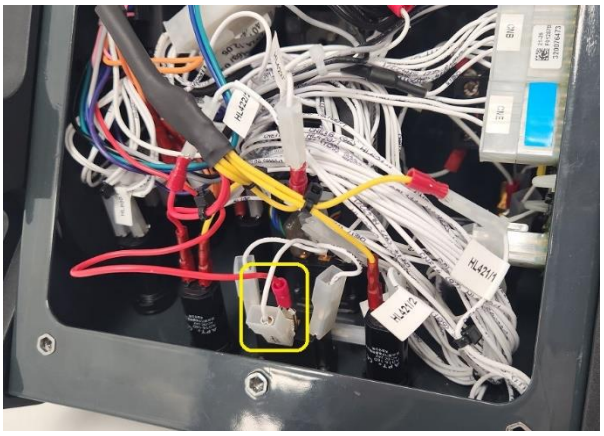
Control Module

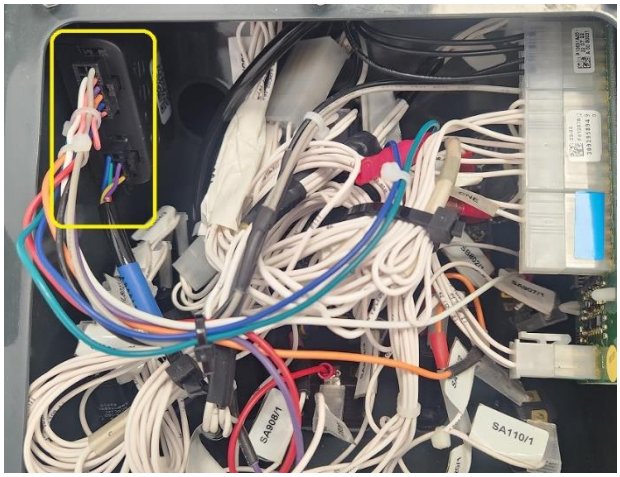
Step	Description	Diagram
1.	Wiring connections are made with **AS002004 Rev2.0** harness. Use an **Elevate Adapter Harness** if the control box has a selectable Indoor/Outdoor mode option.	
2.	**Joystick Connection:** Disconnect the 10-pin connector (**CNA**) from the PCB and install the OverWatch harness connectors in series.	

3.	**Trigger Connection:** Locate wire **37** from connector **CNB** which is located in position **1**. Cut wire **37** and crimp the supplied **male** bullet lug to the connector **CNB** side. Crimp the female bullet lug to the other side of the wire **37** going to the joystick side. Install the OverWatch harness bullet connectors in series with the crimped lugs on wire **37**.	 
4.	**Elevate Connection:** At the back of the elevate light, disconnect the connector with wire ID **46 (HL420/1)**. Install the orange wire from the OverWatch harness in line with wire **46,** as shown in the image. **Note: Check that the connectors are tight, use needle nose pliers to squeeze the connection if necessary**	

5.	**Elevate Connection - Compact Dual:** If the control box has a selectable Indoor/Outdoor mode, use the Elevate Adapter Harness **(AS002581)** for the elevate connections, as shown in the image. Connect the **orange wires** of the adapter harness to the elevate connections on the OverWatch harness, as shown in the image. At the back of the Indoor option light, disconnect the connector with wire id **96 (HL421/1)**. Install the yellow wire from the adapter harness in line with wire **96**, as shown in the image. At the back of the Outdoor option light, disconnect the connector with wire id **97 (HL422/1)**. Install the yellow wire from the adapter harness in line with wire **97**, as shown in the image. At the back of the Outdoor option light, disconnect the connector with wire id **109 (HL422/2)**. Install the red wire from the adapter harness in line with wire **109**, as shown in the image. **Note: This instruction applies to Compact 10N and Compact 14N 2026+ models with a selectable Indoor/Outdoor option mode.**	  

6.	**Drive Connection:** At the back of the drive light, disconnect the connector with wire ID **94 (HL100/1). I**nstall the purple wire from the OverWatch harness in line with wire **94**, as shown in the image. **Note: Check that the connectors are tight, use needle nose pliers to squeeze the connection if necessary**	
7.	**Horn Connection:** At the back of the horn switch, disconnect the connector with wire ID **34 (SA907/1)** and install the white wire from the OverWatch harness inline using the spade connector.	

8.	**Power Connection:** Disconnect the connector with wire ID **109K (SA908/2)** located in the middle of the **Drive/Lift** switch and install the red wire from the OverWatch harness inline using the spade connector. Disconnect the connector with wire ID **109 (SA422/2)** located in the middle of the **Elevate Indoor/Outdoor** switch, and install the red wire from the OverWatch harness inline using the spade connector. **Note: This instruction applies to Compact 10N and Compact 14N 2026+ models with a selectable Indoor/Outdoor option mode.**	 
9.	Mount the OverWatch ECU inside the control box using Velcro tape as shown in the image. **Make sure that the ECU is mounted so the connectors are facing downwards.**	

10.	Connect the 8-pin connector from the operator sensor and the 12-pin connector from the harness to the ECU.	
11.	Re-attach the bottom plate to the control box. Care must be taken when closing the box, make sure all internal wires are clear of the box edges and bolt inserts, do not pinch or crush any internal wires when closing the boxes.	

Device Configuration

After the system has been installed it must be configured with the parameters to suit the machine. Follow the instructions below to configure the OverWatch.

Install the OverWatch App

The OverWatch App is available for download on the Apple App Store and the Google Play Store. The App is used to replace the tradition web browser method for software updates, diagnostics and configuration of the EQSS OverWatch Secondary Guarding System. Search for the “EQSS OverWatch” App or download using the QR codes below

Download on the App Store

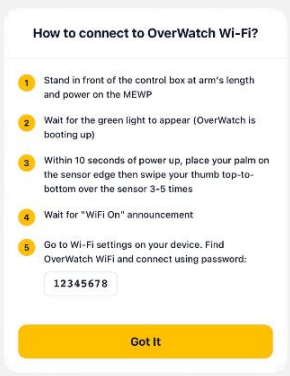
GET IT ON Google Play

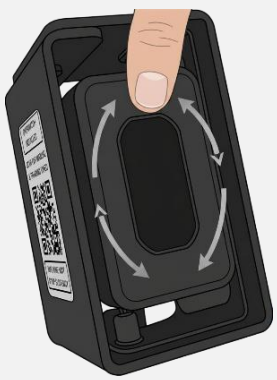
Open the App

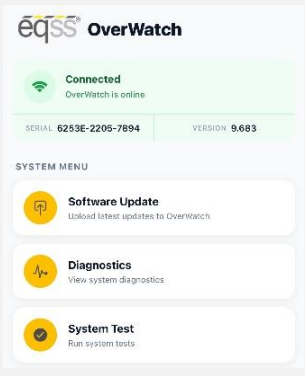
Open the EQSS OverWatch App on your device, when the App starts it will automatically download the latest OverWatch software from the web.

Enable Wi-Fi on the Overwatch

The OverWatch connects to the App via Wi-Fi. Follow the onscreen instructions under **Connect to OverWatch Wi-Fi** in the App



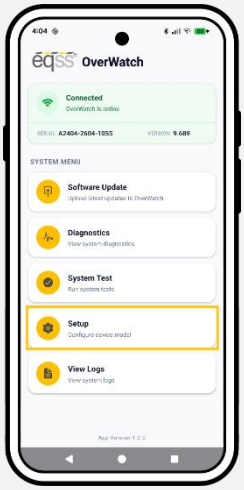


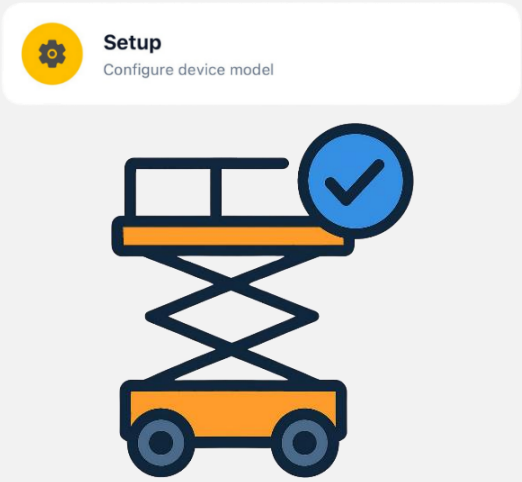


Machine Setup

Set the Machine Model to Haulotte Compact AE Series

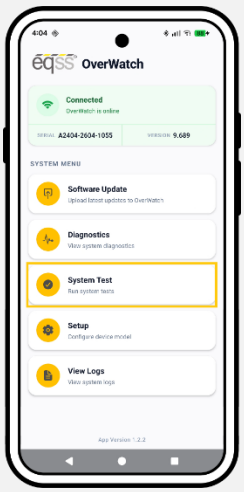
After a new kit installation or a software update, the OverWatch must be told what machine model it is installed on. Each machine model has unique settings such as input thresholds from the electronics and parameters relating to the sensor mounting position. When the OverWatch is connected to the App on Wi-Fi, select setup to select the scissor lift model. Refer to the specific machine installation manual for more information.

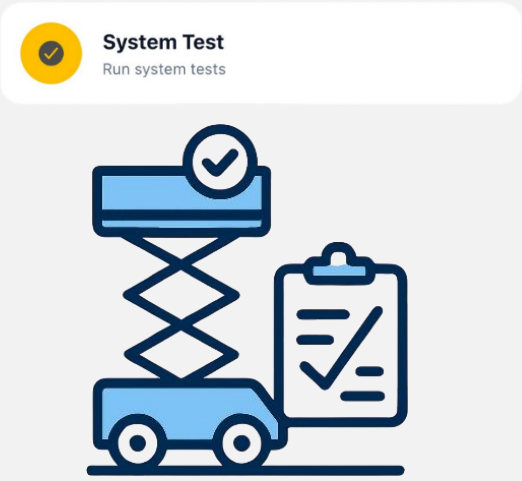


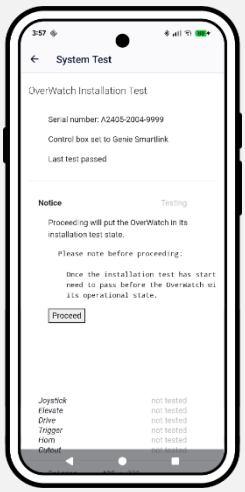


System Test

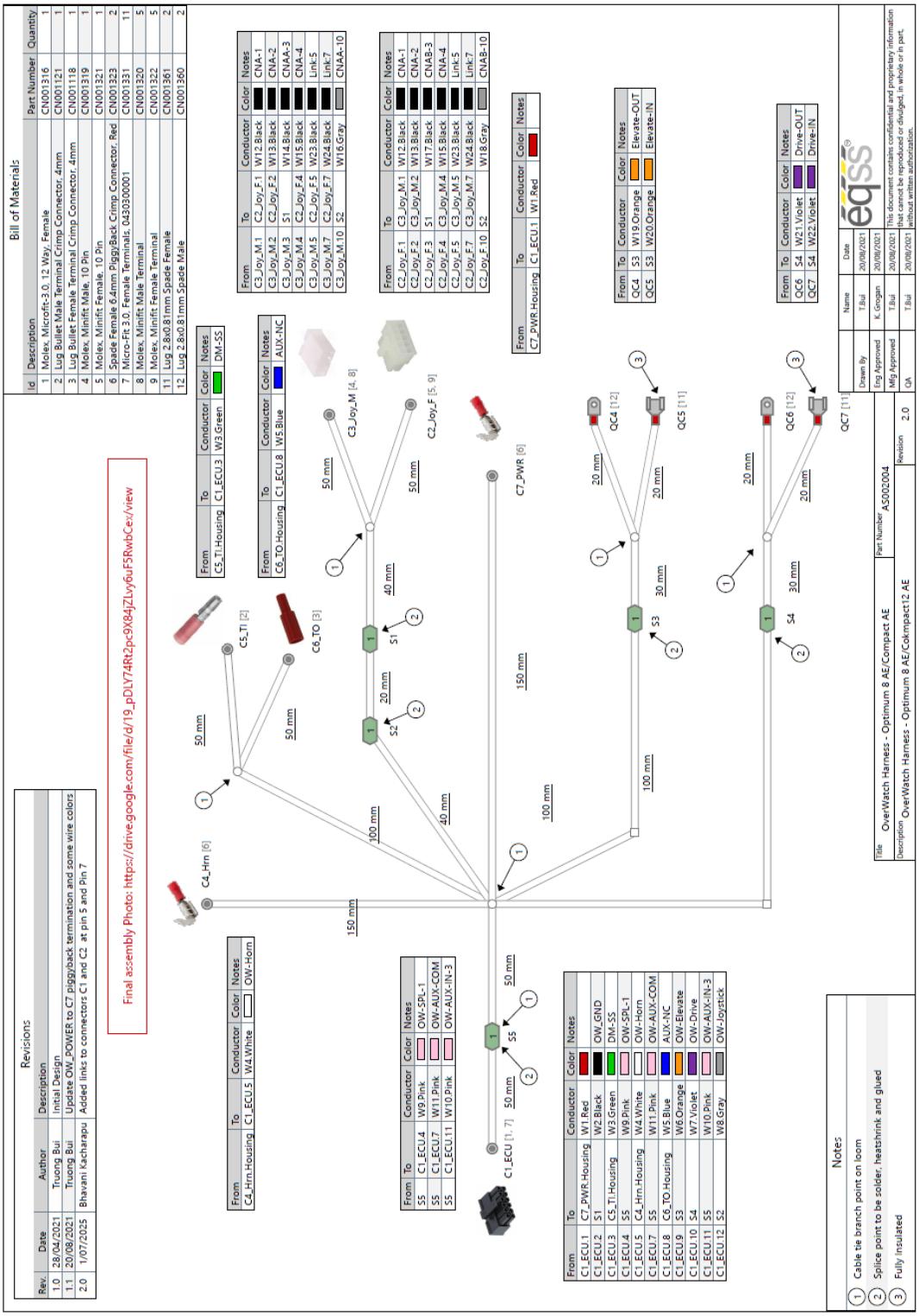
The system test is used to verify the OverWatch is installed correctly and all signals are working. The system test is used on a new installation or after a software update. The onscreen prompts will guide the test process, and the test must pass for the OverWatch to become operational.



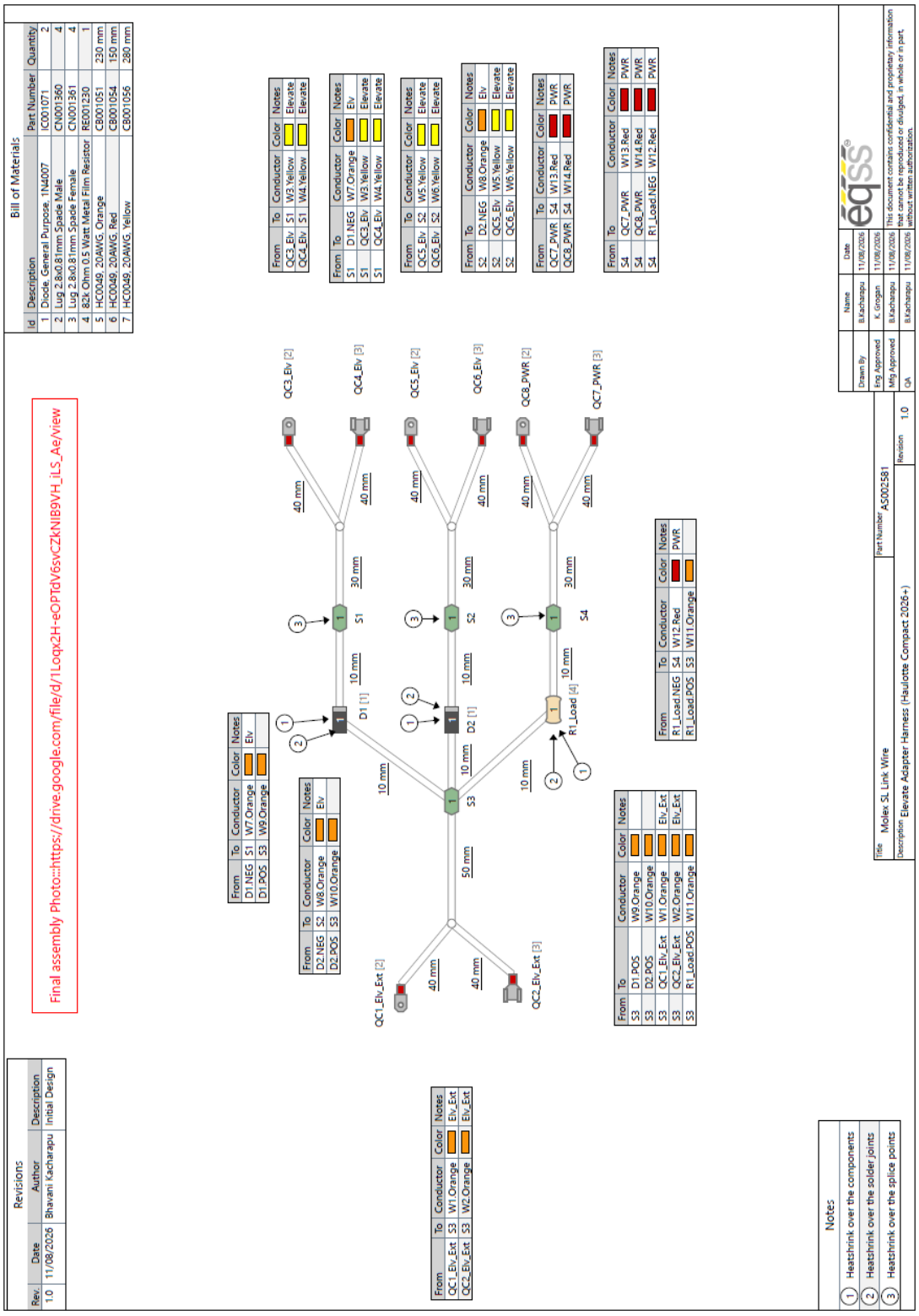




Harness Drawing AS002004



Harness Drawing AS002581



Replacement Parts

Replacement parts for this OverWatch kit are available from EQSS, please email sales@eqss.com.au

Shown below are the part numbers for the major components included in this model specific kit.

Part Number	Description
AS002475	OverWatch - Complete Kit Haulotte Compact AE Series
AS001910	OverWatch - Operator Sensor with M20 gland
AS001916	OverWatch - Electronic Control Unit (ECU)
AS002004	OverWatch - Haulotte Compact AE Harness Rev2.0
AS002326	OverWatch - Sensor Guard V2
AS002581	Overwatch – Elevate Adapter Harness
ME001889	OverWatch – Haulotte Compact AE Sensor Bracket