INSTALL MANUAL

EQSS Model6253 – OverWatch
BRAVI LUI Mini Series

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

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DOCUMENT ABSTRACT:
This manual details the instructions for installing the Model6253 OverWatch on a BRAVI LUI Mini Series Scissor Lift

PRODUCT NAME:
Model6253 OverWatch Operator Detection System

REFERENCE DOCUMENTS:
DO0001195 Model6253 OverWatch User Manual

CURRENT DOCUMENT REVISION:
1.1

REVISION INFORMATION:

- 1.0 Initial Document Creation for installation on a BRAVI LUI Mini Series
- 1.1 Update device configuration to include OverWatch app.
- 1.2 Added configuration for CAN bus speed at 250kbps

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in this publication regarding this device's applications and the like, is provided only for your convenience and may be superseded by updates.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 6.0mm
6	Drill 5.0mm
7	Step Drill (5 – 30mm)
8	Metric sockets or spanners
9	Needle nose pliers
10	Screw drivers
11	Paint – Green

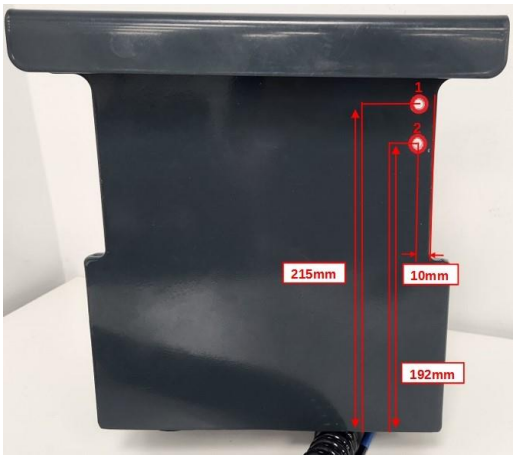
Installation Time

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

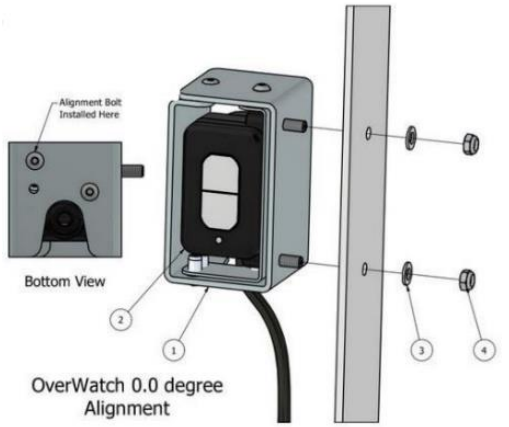
Task	Estimated Time (Minutes)
Drilling of all mounting holes for the various components	10
Mechanical assembly	10
Electrical assembly	10
Post installation system tests	10
Total	**40**

Installation Instructions

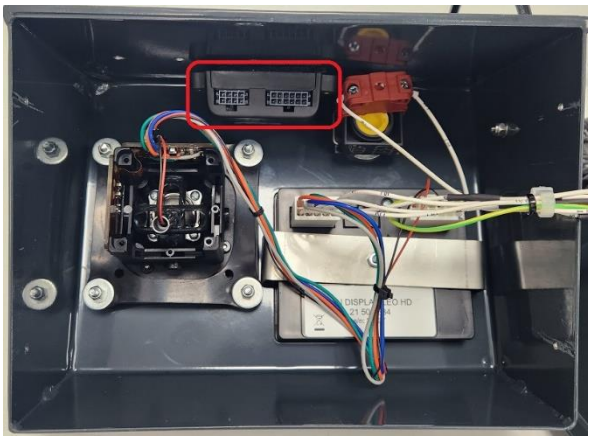
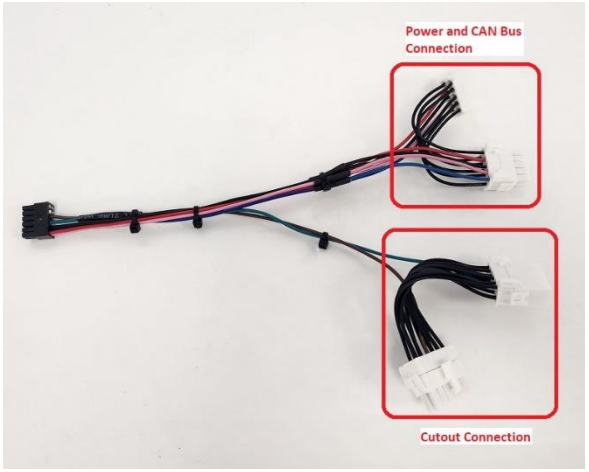
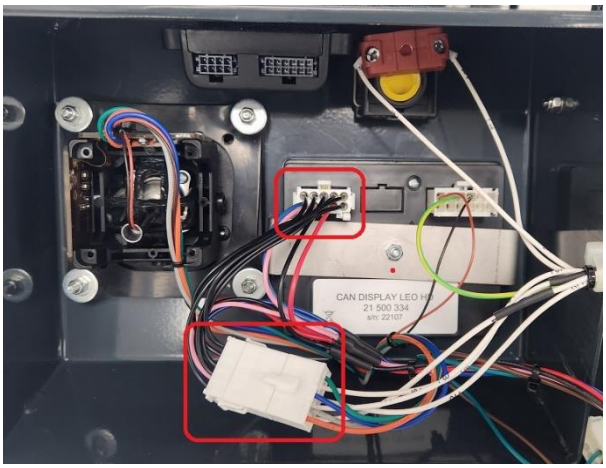
Operator Sensor

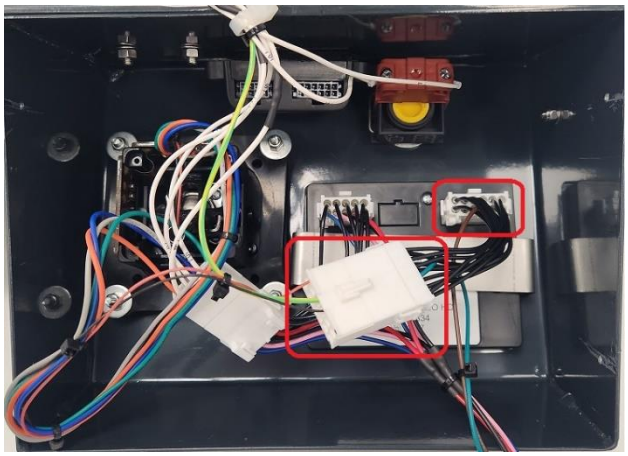
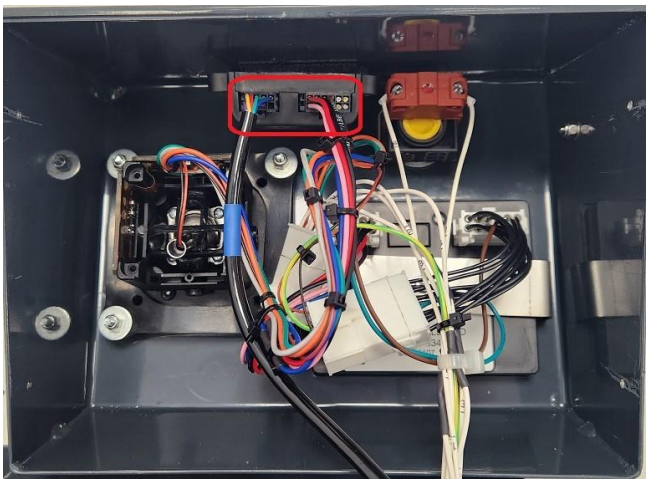
Step	Description	Diagram
1.	Remove the bottom cover of the control box by removing the four screws on the side of the control box.	
2.	Drill three **5.2 mm** holes to mount the operator sensor and a P- clip on the outside of the metal housing. Distance is measured from the vertical and horizontal edge of the metal cover. **Hole #1**- **215mm** from the vertical and **10mm** from horizontal. **Hole #2**- **192mm** from the vertical and **10mm** from horizontal. **Hole #3**- **70mm** from the vertical and **30mm** from horizontal.	

3.	Drill two **5.2mm** holes to mount the control box anchor bracket.	
4.	Drill a **20mm** hole for the operator sensor cable gland as shown in the image.	
5.	Mount the operator sensor bracket using the supplied nuts, bolts, and washers. 2 x M5 x 12mm Countersunk screws 2 x M5 washer 2 x M5 lock nut	

6.	**Sensor Mounting Guard** Mount the operator sensor in the **45-degree position** on the mounting bracket using the supplied M5 washers and nuts. Make sure that the sensor is on the 0.0-degree angle, such that it is **not** twisted away from the joystick. **The 0.0-degree angle is achieved by using the bolt hole as show in the image.**	PARTS LIST ITEM / QTY / PART NUMBER / DESCRIPTION 1 / 1 / AS002326 / Sensor Mounting Guard V2 2 / 1 / AS002406 / OverWatch Operator Sensor 3 / 2 / FA001174 / Washer, Plain, M5, 304 St. St. 4 / 2 / FA001219 / Nut, Hex, M5 x 0.8mm, Nylock 
7.	Route the operator sensor cable as shown in the diagram. Use the P-Clip to secure the cable to the metal box.	

Control Module

Step	Description	Diagram
1.	Install the OverWatch ECU module next to the emergency switch using the Velcro tape, as shown in the image. The ECU must be mounted with the connectors facing downward to prevent potential water ingress.	
2.	Wiring connections are made with the **AS002553** harness.	
3.	**Power and CAN Bus Connection:** Disconnect the 10-pin connector from the circuit board and install the OverWatch harness in series with the connectors.	

4.	**Cutout Connection:** Disconnect the 12-pin connector from the circuit board and install the OverWatch harness in series with the connectors.	
5.	Install the cable gland and run the operator sensor cable through the predrilled 20 mm hole and secure the cable gland. Connect the 8-pin connector from the operator sensor and the 12-pin connector from the OverWatch loom to the ECU.	
6.	Mount the control box anchor bracket using the supplied nuts, screws, and washers. 2 x M5 x 16mm countersunk screws 2 x M5 washer 2 x M5 lock nut	

7.	Re-attach the bottom plate to the control box. Secure the operator sensor cable by using a p-clip as shown in the image. Use an existing control box screw for the p-clip. 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

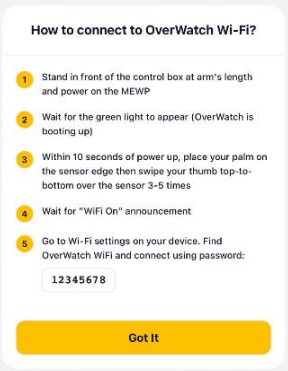
GET IT ON Google Play

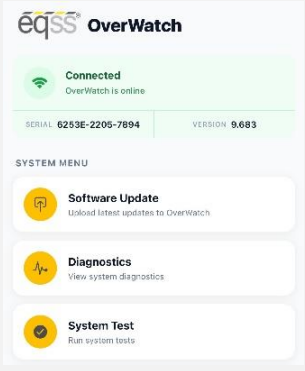
Open the App

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



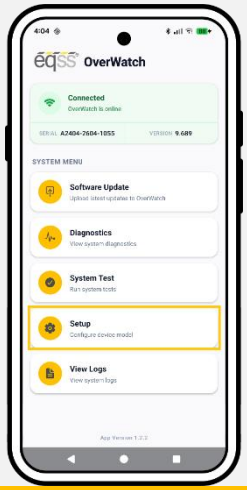


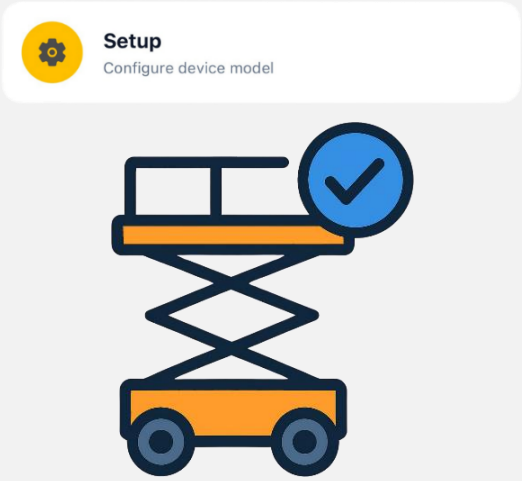
Machine Setup

Set the Machine Model to BRAVI LUI Mini Series or BRAVI LUI Mini Series – 250K

Note: If the control box CAN bus speed set to 50kbps set the machine model to **BRAVI LUI Mini Series** if it set to 250kbps then set the machine model to **BRAVI LUI Mini Series – 250K**

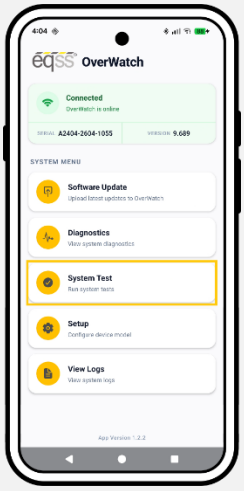
After a new kit installation or a software update, the OverWatch must be told what machine model it is installed on. Each machine model has unique settings such as input thresholds from the electronics and parameters relating to the sensor mounting position. When the OverWatch is connected to the App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

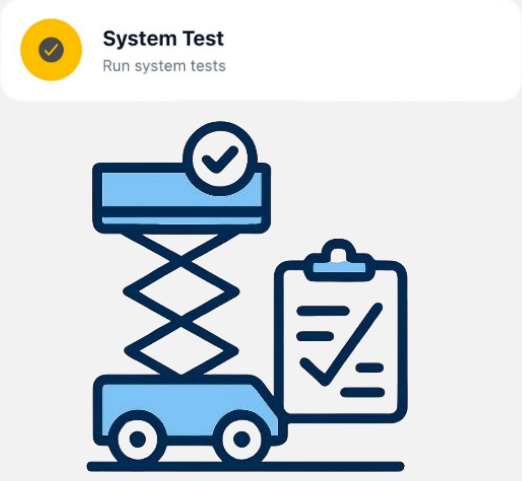




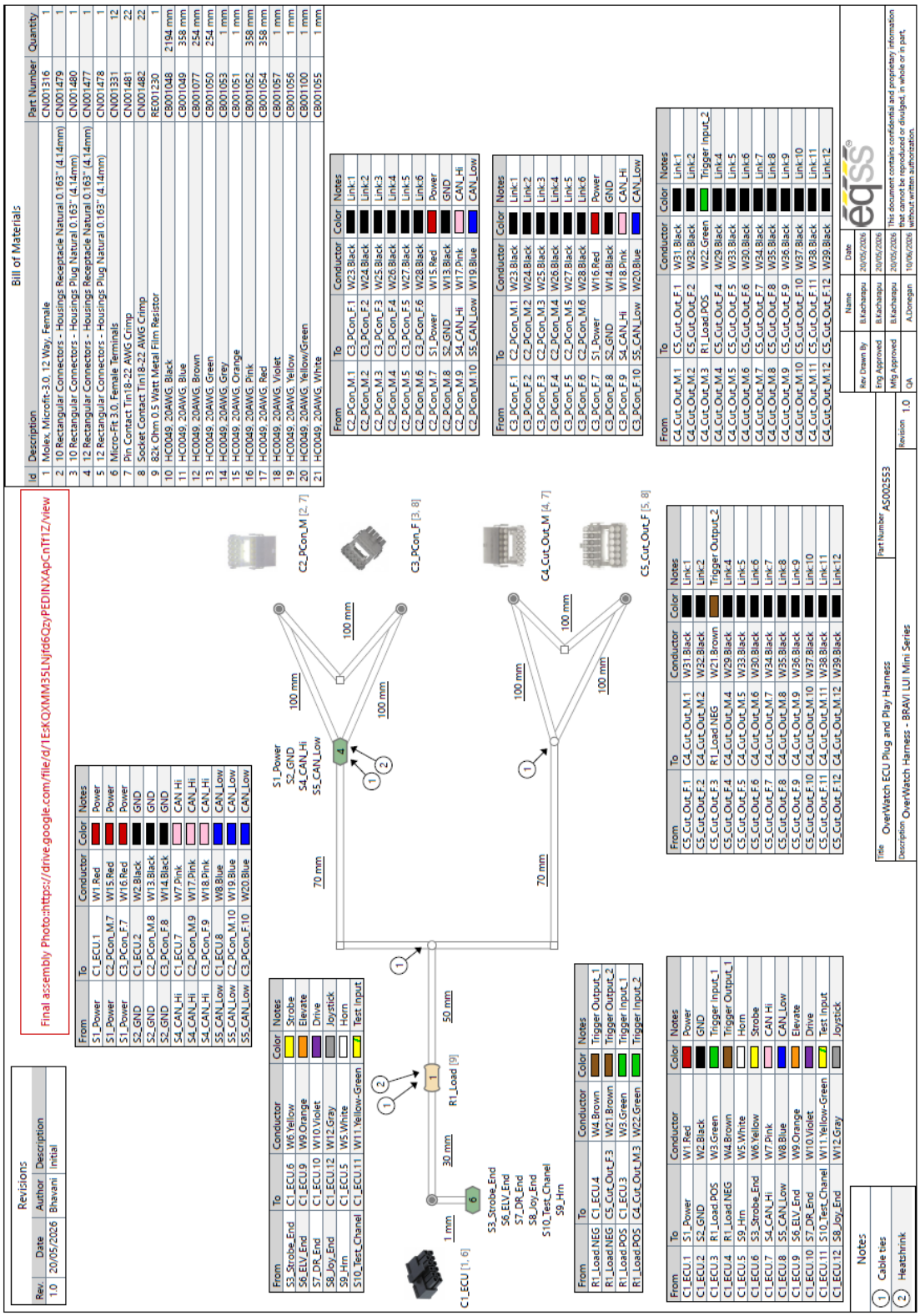
System Test

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 AS002553



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
AS002552	OverWatch - Complete kit for BRAVI LUI Mini series
AS002406	OverWatch - Operator Sensor with M20 gland
AS002404	OverWatch - Electronic Control Unit (ECU) – Hybrid CAN configuration
AS002553	OverWatch – BRAVI LUI Mini Series Harness
AS002326	OverWatch - Sensor Guard V2
ME001818	OverWatch – L Bracket 30/45
ME001908	BRAVI Control Box Anchor Bracket