INSTALL MANUAL

EQSS Model6253 – OverWatch
Genie RT Series 2

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

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DOCUMENT ABSTRACT:
This manual details installing the Model6253 OverWatch on a RT Series 2 Scissor Lift.

PRODUCT NAME:
Model6253 OverWatch Operator Detection System

REFERENCE DOCUMENTS:
DO0001195 Model6253 OverWatch User Manual

CURRENT DOCUMENT REVISION:
1.2

REVISION INFORMATION:

- 1.0 Initial document creation for installation on a Genie RT Series 2 scissor lift using the Data Link method
- 1.1 Update device configuration to include the OverWatch app
- 1.2 Inclusion of instructions to select both configurations Genie RT Forward Down and Forward Up

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this publication regarding this device's applications and the like, is provided only for your convenience and may be superseded by updates.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

Installation Time

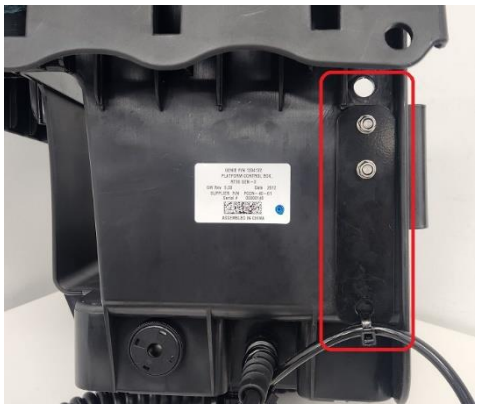
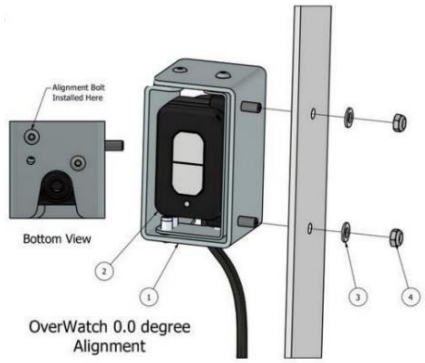
The suggested time required to install the OverWatch is as detailed below

Task	Estimated Time (Minutes)
Open the operator control box	5
Drilling of all mounting holes for the various components	10
Mechanical assembly	5
Electrical assembly	5
Post installation system tests	10
Close the operator control box	5
Total	**40**

Installation Instructions

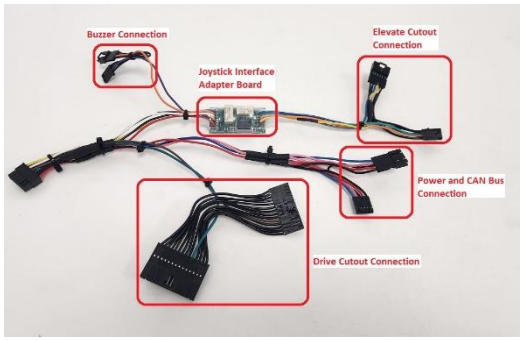
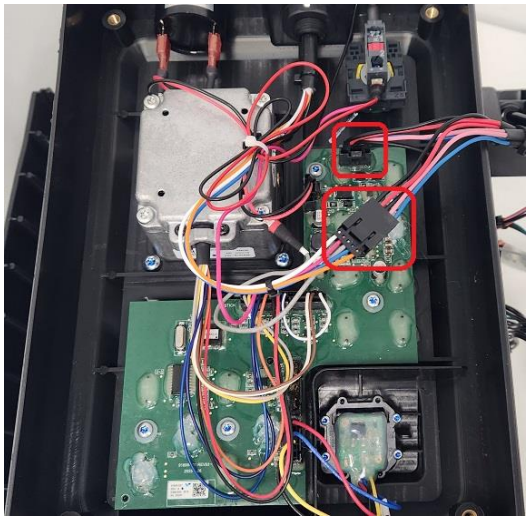
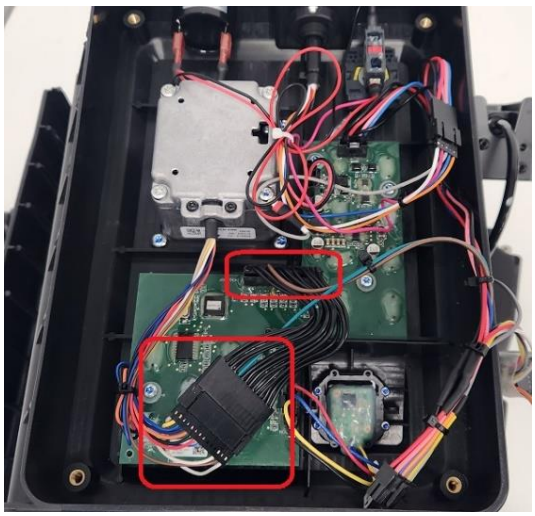
If any decals are damaged during the installation process or if any decals are obstructed following the installation, they should be replaced accordingly.

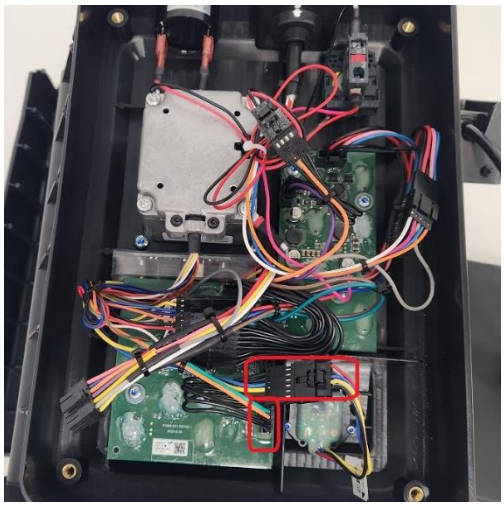
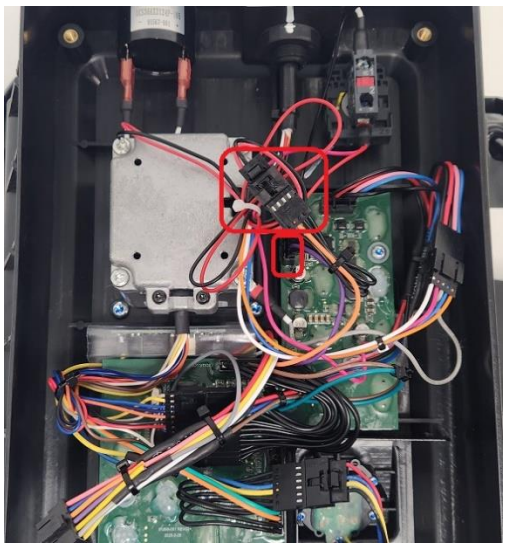
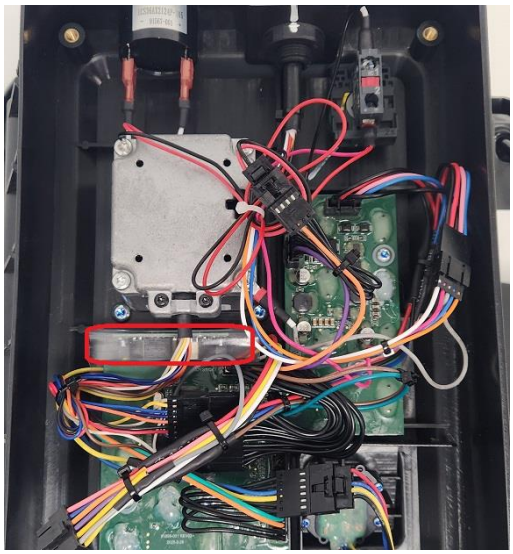
Operator Sensor

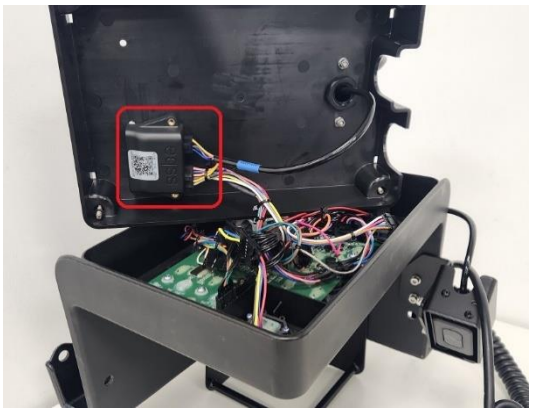
Step	Description	Diagram
1.	Drill two **6mm** holes using the sensor backing plate (ME001848) as a drilling template as shown in the image. The backing plate should be oriented with the large hole towards the bottom of the unit and pushed up against the side and top of the channel.	
2.	Mount the operator sensor bracket with the backing plate using the supplied nuts, bolts, and washers. 2 x M5 x 16mm bolts 4 x M5 washer 2 x M5 lock nut	
3.	**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 shown 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 

4.	Mount the operator sensor to the control box by using the M5 hardware. Make sure to place the backing plate in position.	
5.	Remove the bottom plate of the control box and drill a **20mm** hole for the operator sensor gland. The centre of the gland should be in line with the existing corner on the bottom plate above the gland position as shown in the image. Drill two **5.2mm** holes for the gland guard as shown in the image.	

Control Module

Step	Description	Diagram
1.	Wiring connections are made with the **AS002559** harness.	
2.	**Power and CAN Bus Connection:** Disconnect the 5-pin connector from the circuit board and install the OverWatch harness in series.	
3.	**Drive Cutout Connection:** Disconnect the 14-pin joystick connector from the circuit board and install the OverWatch harness in series.	

4.	**Elevate Cutout Connection:** Disconnect the 6-pin elevate joystick connector from the circuit board and install the OverWatch harness in series.	
5.	**Buzzer Connection:** Disconnect the 4-pin buzzer connector from the circuit board and install the OverWatch harness in series.	
6.	Secure the adapter board next to the joystick controller, as shown in the image. Neatly bundle all cables together using cable ties.	

7.	Install the supplied cable gland in the location shown and feed the cable from the operator sensor into the enclosure. Mount the OverWatch ECU inside the control box. Secure the ECU to the right-hand side of the inside of the bottom cover using the supplied Velcro tape. Ensure the ECU is firmly attached and positioned so that it does not fall onto the elevate joystick pedal. Connect the 8-pin connector from the Operator Sensor and the 12-pin connector from the OverWatch harness into the ECU.	
8.	Pull the operator sensor cable tight and secure the cable to the large hole in the base of the operator sensor mounting bracket by using a cable tie. Mount the gland guard over the gland and use a cable tie to secure the cable as shown in the image.	

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. Search for the "EQSS OverWatch" App or download using the QR codes below

Download on the App Store

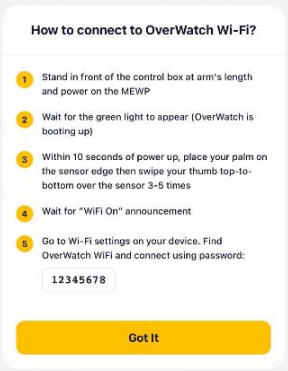
GET IT ON Google Play

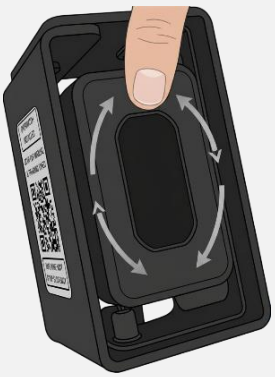
Open the App

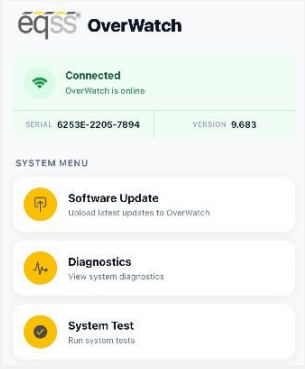
Open the EQSS OverWatch App on your device, when the App starts it will automatically download the latest OverWatch software from the web.

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

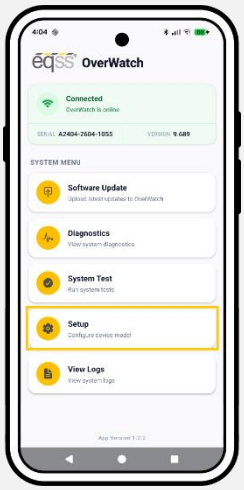
Set the Machine Model

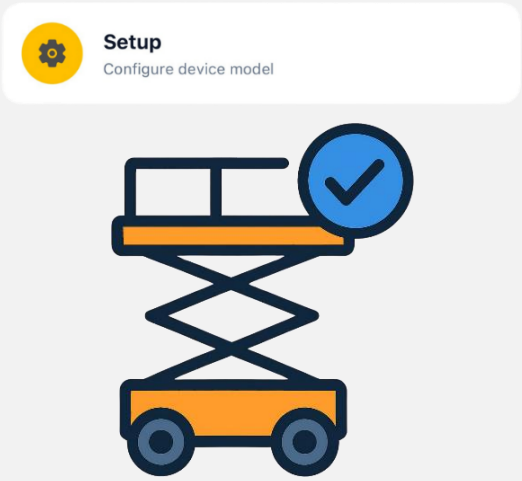
Genie RT S2 FWD DOWN Or Genie RT S2 FWD UP

Note: Before selecting the machine model, check whether the control box elevate rocker switch moves **up** or **down** when pushed forward.

- If pushing the elevate rocker switch forward moves it down, select **Genie RT S2 FWD DOWN**
- If pushing the elevate rocker switch forward moves it up, select **Genie RT S2 FWD UP**.

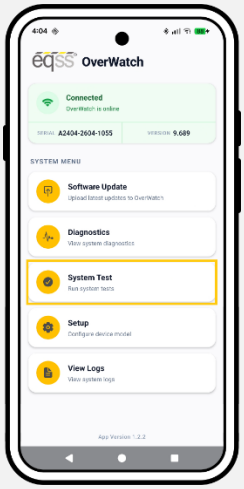
After a new kit installation or a software update, the OverWatch must be told what machine model it is installed on. Each machine model has unique settings such as input thresholds from the electronics and parameters relating to the sensor mounting position. When the OverWatch is connected to the App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

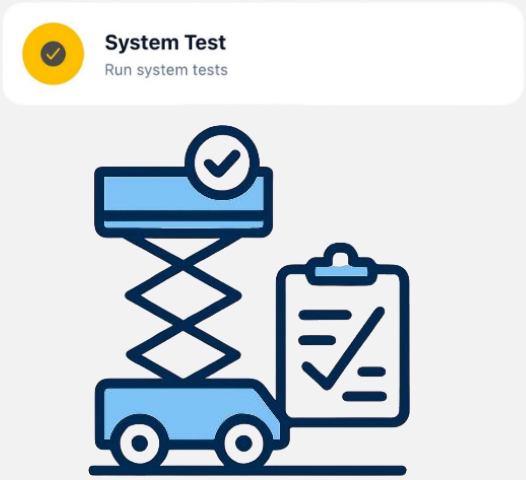




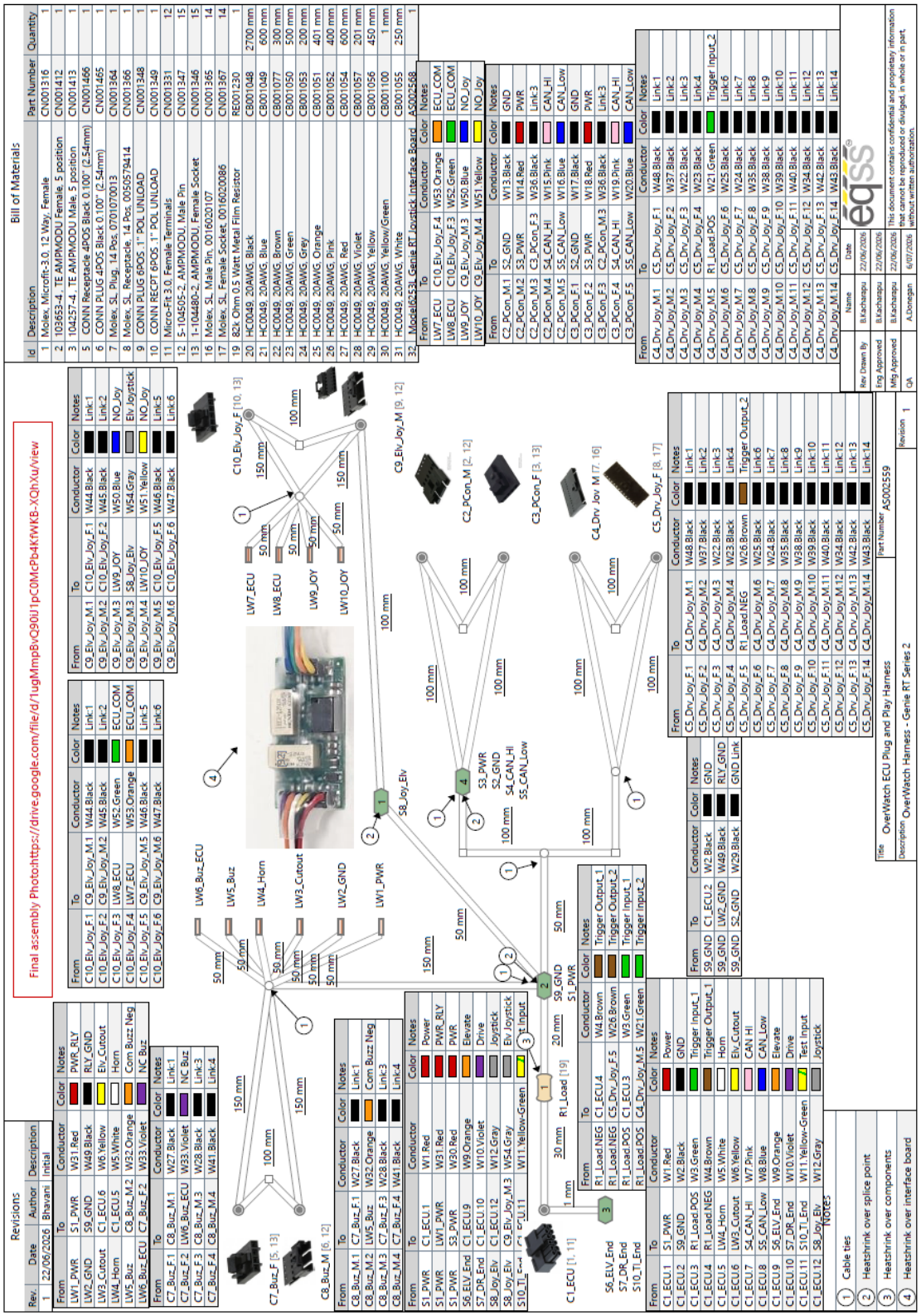
System Test

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 AS002559



Replacement Parts

Replacement parts for this OverWatch kit are available from EQSS, for all inquiries 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
AS002569	OverWatch - Complete kit for Genie RT Series 2 Control Box
AS002406	OverWatch - Operator Sensor with M20 gland
AS002404	OverWatch – Electronic Control Unit (ECU) – Hybrid CAN configuration
AS002559	OverWatch - Genie RT Series 2 Harness
AS002326	OverWatch - Sensor Guard V2
ME001818	OverWatch - L Bracket 30/45