

75 Naxos Way, Keysborough 3173 Victoria Australia P: +61 3 8770 6555 E: support@eqss.com.au

JCB SE Series Scissor Lift Installation Manual

REV 1.2

25/11/2022

Model6253 OverWatch™ Installation Manual

Document # DO001523

EQSS Model6253 - OverWatch™ **JCB SE Series**

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





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DOCUMENT ABSTRACT: This Installation Manual details the manufa	turer's installation instructions for installi	I ng the Model6253 OverWatch™ on a JCB
SE Series electric slab scissor lift.		
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Model6253 OverWatch™ Operator Detection	on System	
REFERENCE DOCUMENTS:		
DO0001195 Model6253 OverWatch™ User	Manual	
CURRENT DOCUMENT REVISION:		
1.2		
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1.2 Inclusion of harness schematics	s and update of installation images for PCB	'S



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Important Information

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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 3.2mm
6	Drill 5.0mm
7	Step Drill (5 – 30mm)
8	Metric sockets or spanners
9	Needle nose pliers
10	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	10
Mechanical assembly	10
Electrical assembly	10
Post installation system tests	10
Total	40



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Installation Instructions

Operator Sensor

Step	Description	Diagram
1.	Remove the Joystick controller from the metal housing.	
2.	Drill two 5mm holes in the location shown in the diagram to mount the operator sensor. Distance is measured from the vertical and horizontal edge of the metal cover. Hole 1 is 216mm from the vertical edge. Hole 2 is 193mm from the vertical edge.	193mm



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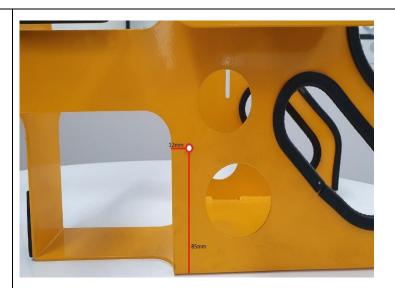
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3. Drill the hole for the **P-clip** as shown in the image.

Horizontal distance ${\bf 12mm}$

Vertical distance 85mm



4. Mount the operator sensor bracket to the metal enclosure using the supplied nuts, bolts and washers.

Use the following hardware from the kit.

- 2 x M4 x 12mm bolts
- 2 x M4 Lock Nuts
- 4 x M4 Washers





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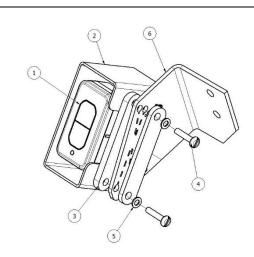
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5. Mount the operator sensor in the **45 degree** position using the supplied positioning wedges, sensor guard, M4 washers, nuts and bolts.

The orientation of the wedge blocks is critical for the correct positioning of the operator sensor, make sure that the sensor is angled, such that it is **twisted outwards** from the joystick controller.



		F	PARTS LIST
ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	AS001910	OverWatch™ Operator Sensor
2	1	ME001794	OverWatch™ Sensor Guard
3	2	ME001798	OverWatch™ 7.5° Wedge
4	2	FA001422	M4 x 20mm Post Torx Butt Screw
5	2	FA001235	Washer, Plain, M4, 304 St. St.
6	1	ME001818	Operator Sensor Mounting Bracket

5. Route the operator sensor cable as shown in the diagram. Using the supplied P-Clip to secure the cable to the metal box.

Use the following hardware from the kit.

- 1 x M4 x 12mm bolt
- 1 x M4 Lock Nuts
- 2 x M4 Washers





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Control Module

Step	Description	Diagram
1.	Remove the bottom plastic cover from the Joystick to expose the inside wiring and electronics.	
2.	Remove the Buzzer, E-Stop, and the controller circuit board from the plastic enclosure.	
3.	Drill a 20mm hole to run the operator sensor M20 Gland into the plastic joystick enclosure. The position of the hole is detailed as in the image. It is recommended to use a step drill for this hole, as it is running through plastic material.	30mm 20mm



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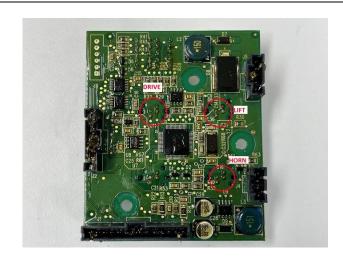
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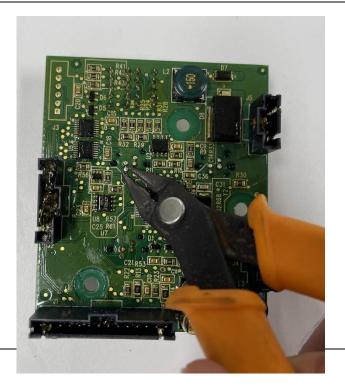
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4. Use a fine metal pick to clean the area shown in the red circles, on the adjacent image, to allow access to the pins. This process removes the conformal coating on the PCB and allows electrical access to the drive, elevate and horn connections on the circuit joystick board.



5. Use a fine pair of side cutters to trim down the signal pins. These connections must be trimmed to be as flat as possible so that the spring pin from the plug and play board can make suitable contact with the terminal



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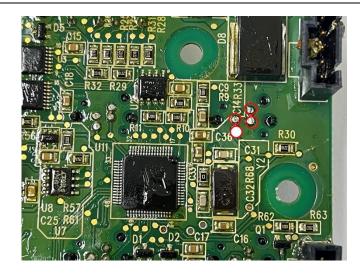
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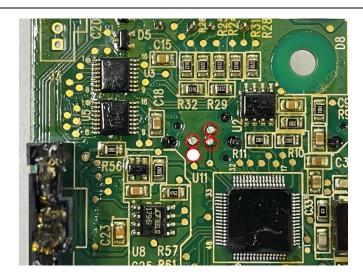
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6. Trim down the **Elevate** signal pin. This pin is located as displayed in the image. Using a fine pair of side cutters make sure that the pin is trimmed flat.



7. Trim down the **Drive**signal pin. This pin is
located as displayed in the
adjacent image. Using a
fine pair of side cutters
make sure that the pin is
trimmed flat.



8. Trim down the two **Horn** signal pins. These pins are located as displayed in the adjacent image. Using a fine pair of side cutters make sure that the pins are trimmed flat.



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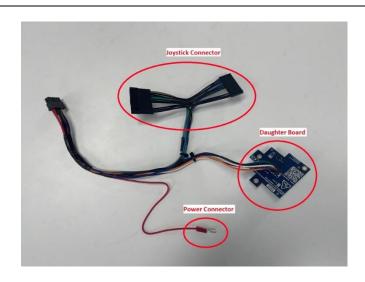
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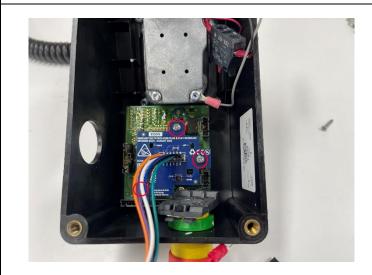
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Wiring connections are made by the AS002212
 Plug and Play harness



10. Mount the Overwatch circuit board on top of joystick circuit board.
Using the provided screws and spacers in the kit.
Make sure that the board is sitting in the correct position and the spring pins are contacting the joystick circuit board signal pins. Use the cutouts next to each spring pin to inspect that the contact is solid with the

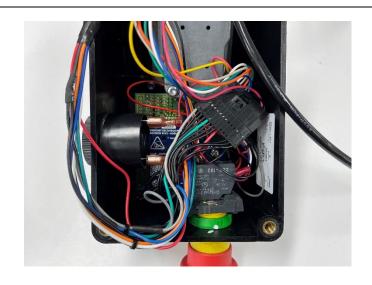


11. Install the Overwatch joystick connectors in between the joystick and the control box circuit board.

joystick board.

Visually check that all pins from the original joystick connector have a corresponding cable on the Overwatch harness.

Reconnect the other connectors, which were disconnected in step 1 to the control box circuit board.



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12. At the back of the Estop, install the OverWatch Red Power cable to terminal 1 of the E-Stop.

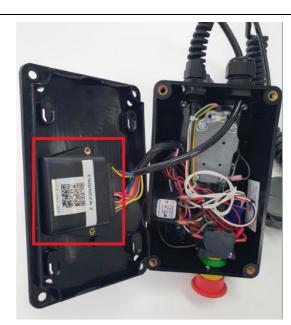
Note: this cable might need to be changed to terminal 2 if the Overwatch is powered with the E-stop pushed in.



13. Mount the OverWatch ECU inside the joystick control box, the ECU is mounted to the plastic using the adhesive Velcro tape.

Run the operator sensor cable through the predrilled 20mm 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.



14. Re-assemble the joystick control box and mount to the metal shroud.

Make sure the operator sensor cable runs clear to the joystick enclosure and tighten the M20 gland to seal the cable entry point.





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Post Installation Configuration

Overview

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

Minimum system requirements

Any smart phone, tablet or laptop that meets the following requirements:

- The device can connect to a Wi-Fi access point
- The device has an up to date web browser installed (2019 onwards). Firefox or Chrome are recommended.

Wi-Fi Connection & Web Page Access

To enable the Wi-Fi connection on the OverWatch™ to complete the configuration follow the steps below.

- 1. Power down the platform control box with the ESTOP
- 2. Wait 10 seconds
- 3. Power up the platform control box with the ESTOP
- 4. While standing in the operator position, switch on the OverWatch™
- 5. As the welcome chime starts to play, cover the sensor. The LED will flash white then black to acknowledge.
- 6. Remove your hand from the sensor. The LED will flash white then black to acknowledge.
- 7. After covering then uncovering the sensor this way 2 more times, "Wi-Fi On" will be announced.
- 8. On your Wi-Fi enabled device (laptop, tablet, smartphone, etc), show the available wireless networks
- 9. Select the wireless network (starts with "overwatch") to connect to the OverWatch™
- 10. When prompted, enter the password "12345678"
- 11. Open your preferred web browser (Chrome, Firefox, Safari, Edge)
- 12. Enter the following into the address bar http://192.168.4.1 to open the OverWatch™ main page



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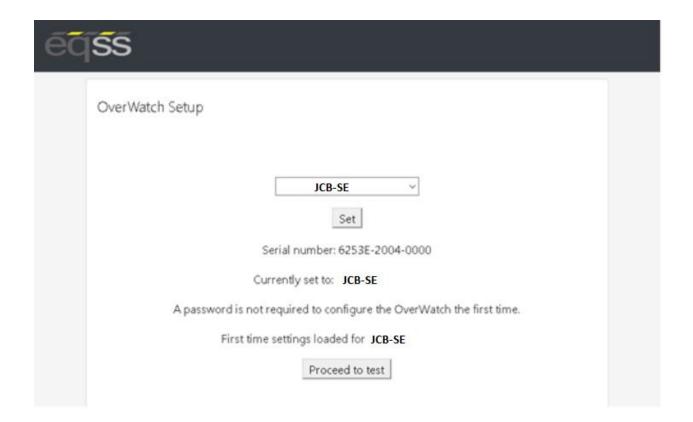
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Machine Model Selection

Follow the instructions below to configure the OverWatch $^{\mathrm{IM}}$.

- 1. Select the Setup option
- 2. If there is a password field at the bottom of the page, follow the instructions in Change Model Configuration to obtain the password and enter the password field
- 3. Select the EWP Model from the drop-down list and click Set
- 4. Click on Proceed to Test to begin the installation test





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Installation Test

After the model configuration has been set or updated an Installation Test must be performed. This will ensure the installation has been correctly performed and the OverWatch™ is functioning correctly.

Follow the instructions on the web page to complete the Installation Test.

OverWatch Installation	Test	
Joystick	ок	
Elevate	ок	
Drive	OK	
Trigger	ок	
Horn Cutout	OK OK	
Installation test passed		
Passed on 17:19:15 29/04/	2020	
OverWatch is now operation	nal	



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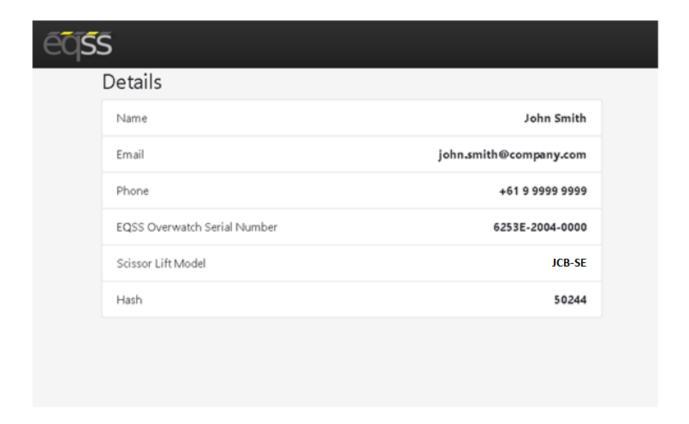
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Change Model Configuration

To reconfigure the OverWatch™ for a different model requires an authorisation password to be supplied by a service manager. The authorisation password is generated from the EQSS website. The EQSS website requires a login username and password. If you are a service manager and don't have a username and password, contact EQSS to register. Follow the instructions below to obtain an authorisation password.

- Open your preferred web and enter the following into the address bar http://www.eqss.com.au/overwatch to open the Login page
- 2. Select Customer
- 3. Enter your username and password
- 4. Ask the service technician for the serial number shown on the Setup page or on the ECU module along with the owner details of the EWP and complete the details form then click Generate Hash
- 5. Provide the 5-digit hash password to the service technician





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Set Date and Time

Date and time should be set accordingly. The date and time can be set on the log page. This page allows adjustment of the system's real time clock and calendar if required. Please note, any time or date change is logged and recorded.

OverWatch L	og Viewer									
Set Date and Tir	ne									
Date	30/04/20	20.0								
Date	30704720	20 😉								
Time	12:02 pm	1 ◎								
Set date and ti	me Read Ove	rWatch da	te and tii	me						
Download CSV	, , , , , , , , , , , , , , , , , , ,									
Timestamp	Description	State	Drive mode	Joystick	Calibration	Displacemen	Maximum t displacemen	Velocity	Maximur velocity	n
102:102:02 81/101/2000	BOOT: OverWatch started	calibrating	not set	idle	100	0	0	0.00	0.00	
102:103:44 81/101/2000	BOOT: OverWatch started	calibrating	not set	idle	100	0	0	0.00	0.00	
102:107:32 81/101/2000	CAL: OK	calibrating	drive	idle	54	-34	-44	4.95	-56.12	
102:107:32 81/101/2000	CAL: Begin scanning	calibrating	drive	idle	54	-34	-44	4.95	-56.12	
102:107:32 81/101/2000	CUTOUT: Position	calibrating	drive	idle	54	-34	-44	4.95	-56.12	
102:107:32 81/101/2000	CUTOUT: Resume calibration	calibrating	drive	idle	54	-34	-44	4.95	-56.12	
11:33:01 30/04/2020	Date and time set to undefined NaN 2020	NaN:NaN	calibrating	drive	idle	54	602	607	187.82	197.97
11:33:01 30/04/2020	Date and time set to undefined NaN 2020	NaN:NaN	calibrating	drive	idle	54	603	607	187.82	197.97
11:40:01 30/04/2020	Date and time set to Apr 30 2020	11:40	calibrating	drive	idle	54	603	607	187.82	197.97
1:57:46 30/04/2020	CAL: OK	calibrating	drive	backward	6B	-7	-19	-10.00	60.61	
11:57:46 30/04/2020	CAL: Begin scanning	calibrating	drive	backward	6B	-7	-19	-10.00	60.61	
1:57:46 30/04/2020	SCAN: Resume calibration	calibrating	drive	backward	6B	-7	-19	-10.00	60.61	
11:57:58 30/04/2020	CAL: OK	calibrating	drive	backward	63	6	13	-15.08	276.32	
11:57:58 30/04/2020	CAL: Begin scanning	calibrating	drive	backward	63	6	13	-15.08	276.32	
11:57:58 30/04/2020	CUTOUT: Movement	calibrating	drive	backward	63	6	13	-15.08	276.32	
11:57:58 30/04/2020	CUTOUT: Resume calibration	calibrating	drive	backward	63	6	13	-15.08	276.32	
11:59:05 30/04/2020	CAL: OK	calibrating	drive	idle	63	-3	-3	1000.00	1000.00	
11:59:05 30/04/2020	CAL: Begin scanning	calibrating	drive	idle	63	-3	-3	1000.00	1000.00	
11:59:05 30/04/2020	SCAN: Resume calibration	calibrating	drive	idle	63	-3	-3	1000.00	1000.00	
11:59:21 30/04/2020	CAL: OK	calibrating	drive	backward	49	2	8	40.00	46.15	
11:59:22 30/04/2020	CAL: Begin scanning	calibrating	drive	backward	49	2	8	40.00	46.15	



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System Settings

See the sections below for details on each of the JCB SE Series OverWatch™ system default settings.

Setting Name	Description	Value
deltaseek	This specifies which of the previous lidar reading to compare against the current one to calculate the speed.	20
max_safe_velocity	This is the velocity threshold for the cutout in cm/s. for drive mode.	95
max_safe_displacement	This is the maximum permitted distance in cm the operator may be away from the calibration position in drive mode.	50
max_safe_velocity_elevate	This is the velocity threshold for the cutout in cm/s. in elevate mode.	75
max_safe_displacement_elevate	This is the maximum permitted distance in cm the operator may be away from the calibration position in elevate mode.	50
max_safe_velocity_neutral	This is the velocity threshold for the cutout in cm/s. in neutral mode.	60
max_safe_displacement_neutral	This is the maximum permitted distance in cm the operator may be away from the calibration position in neutral mode.	40
fwddispadj	The coefficient to apply to the displacement when the displacement is toward the sensor.	-0.8
fwdveloadj	The coefficient to apply to the velocity when the displacement is toward the sensor.	-1
zone_obstruction	The lidar is considered obstructed if the lidar sensor reading is below this.	5
zone_minimum	Any lidar reading below this will trigger a cutout with the message: "Operator Zone"	15
zone_maximum	Any lidar reading above this will trigger a cutout with the message: "Operator Zone"	120
horn_count_max	The number of times the horn will sound when alerting the operator if the trigger remains pressed during the cutout.	2
horn_time_ms	The amount of time in milliseconds each individual horn should play.	200
adc_elevate_threshold	For the elevate ADC input, a reading below this indicates the EWP is in elevate mode.	500
adc_drive_threshold	For the drive ADC input, a reading below this indicates the EWP is in drive mode.	500
adc_trigger_threshold	For the trigger ADC input, a reading below this indicates the trigger is pressed.	100





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Setting Name	Description	Value
adc_joystick_fwd_threshold	For the joystick ADC input, a reading below this indicates the joystick has been pushed forward.	900
adc_joystick_bwd_threshold	For the joystick ADC input, a reading above this indicates the joystick has been pulled backward.	1100
override_cooldown	The amount of time in milliseconds the system will wait before accepting another override request.	20000
override_time	The amount of time in milliseconds the override will last before it expires, and normal operation is resumed.	15000
override_listening_time	The amount of time in milliseconds the system will wait while the deadman is held down before considering it not to be part of the triple click override request.	300
override_reset_time	The amount of time in milliseconds the override system will wait before resuming listening after the deadman has been released at the end of an override period.	500
override_triple_click_time	The amount of time in milliseconds 3 clicks of the deadman need to occur to trigger the override.	2000
lidar_fault_timeout	The amount of time in milliseconds of silence from the sensor module before a fault condition is triggered.	1000
cutout_fault_timeout	The amount of time in milliseconds a discrepancy between the cutout and the cutout sensor is permitted before a fault condition is triggered.	3000
throttle_time	Period after the trigger is pressed, the system does not track velocity.	2000
time_before_welcome	Time after power on before welcome audio is played	250
stuck_displacement	While the operator is within this distance in cm of the position they were in when the cutout occurred, the operator is considered trapped.	20
stuck_time	The period in milliseconds the operator needs to remain still after a cutout to be considered trapped.	5000
stuck_time_long	After the stuck time this is the interval between horn alerts.	10000
wifi_on_click_count	The number of times the trigger needs to be pressed after start-up to enter Wi-Fi mode.	10
wifi_on_click_time	The timeout after start-up before OverWatch stops listening to the trigger click method of turning on the Wi-Fi	10000
wifi_on_gesture_count	The number of times to cover and uncover the sensor to enter Wi-Fi mode.	3
wifi_on_gesture_time	The timeout before OverWatch stops waiting for the next part of the gesture in milliseconds	3000





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Setting Name	Description	Value
wifi_on_gesture_initial_time	The timeout after start-up before OverWatch stops waiting for start of the gesture in milliseconds	10000
driving_state_timeout	Mode selection switch timeout	7000

Polarity and Input Style

The table below describes each setting

Setting Name	Description	Value
joystick_drive_forward	Direction of joystick to move EWP forward	forward
joystick_elevate_upward	Direction of joystick to move EWP upward	forward
joystick_neutral_move	Direction of joystick that requires monitoring when in neutral	forward
elevate_polarity	Direction of signal logic	low
drive_polarity	Direction of signal logic	low
trigger_polarity	Direction of signal logic	low
joystick_polarity	Direction of signal logic	low
neutral_safe	Monitor when no drive mode set	yes
driving_state_input	Direct, timer based or separate joysticks	direct

Settings specific to JCB tilt alarm

OverWatch detects the tilt alarm by sensing that both elevate and drive are flashing in unison. In this situation, the OverWatch releases any cutout to permit the JCB control box to control the operability of the EWP.

Setting Name	Description	Value
passthru_charge_time	This setting is the time in milliseconds that elevate and drive need to be active together before tilt alarm is detected.	10
passthru_discharge_time	This setting is the minimum time in milliseconds that elevate and drive need to remain off before tilt alarm is no longer detected.	1000



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AS002212 Plug and Play Harness Drawing

