Tilt Bucket Calibration Manual



Introduction



Machine guidance with the tilt bucket is available by calibrating the tilt bucket according to this manual.

For normal use of the tablet application, please refer to the manual on the support website.

Preparation



- Magnetic pole jig
- plum bob plumb
- Convex
- · Digital angle meters

The same preparations as for normal bucket calibration are required.



Chapter

Function activation

1.1 Function activation

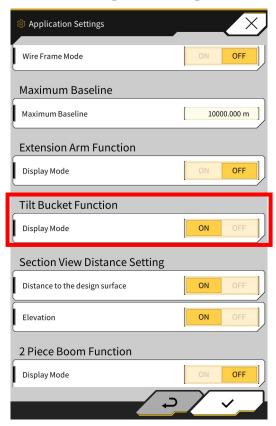


Please keep the tablet app and controller FW up-to-date. As of 2023/8/1 Tablet app v1.0.04.2

Controller FW v1.7.1 is the latest.

Activate the tilt bucket function in the Application settings of the tablet application.

- 1. Launching the tablet app
- 3. "Tilt Bucket Function": ON
- 4. Tap ✓ button for saving setting





Chapter

Bucket calibration

2.1 Bucket calibration



As with normal buckets, please carry out bucket calibration to use tilt buckets.

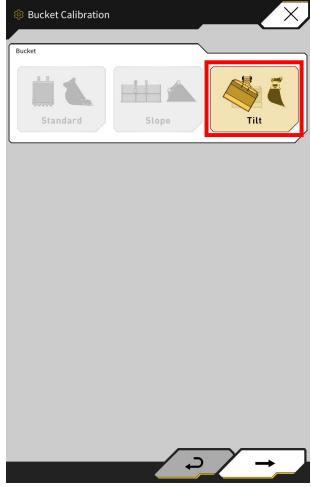
Machine Guidance

Menu > Bucket Configuration

- 1. Tap +
- 2. Select "Tilt" and tap

 →
- 3. Enter dimensions, angles, bucket (coupler) weight > Tap ✓→__

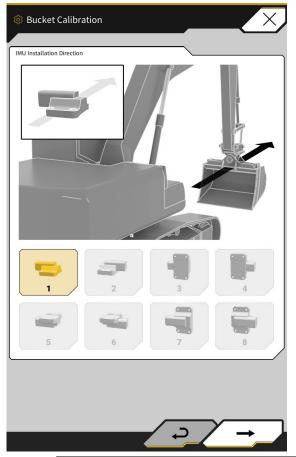




2.1 Bucket calibration



5. Follow the screen to select the installation location and orientation of tilt IMU and tap _____.



【Attention】
Part numbers
(settings) differ
depending on the
mounting orientation
of tilt IMU.
Only corresponding
part number can be
used.

1, 2, 5, 6: 2AB-06-11250 3,4,7,8: 2AB-06-11260

Label surface	Connector	No.
upward	leftward	1
upward	rightward	2
forward	leftward	3
forward	rightward	4
downward	leftward	5
downward	rightward	6
backward	leftward	7
backward	rightward	8

2.1 Bucket calibration



6. Follow the screen to perform bucket and tablet operations > Tap to save



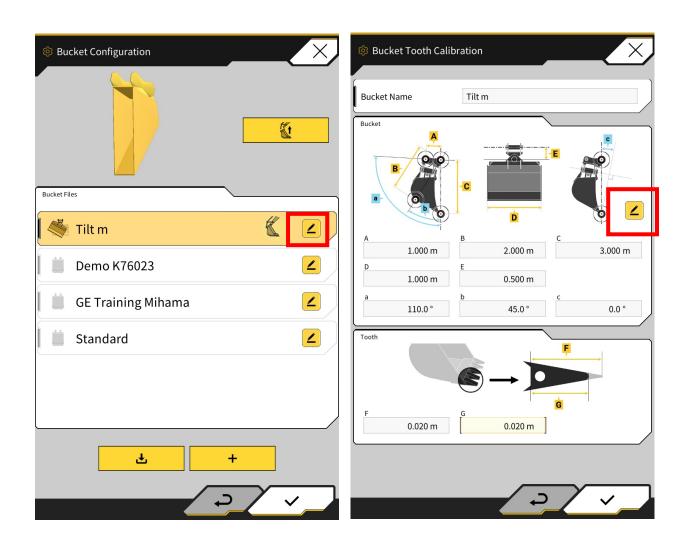
Use a digital angle meter to operate the bucket.

2.2 Bucket tooth calibration ****** EARTHBRAIN



As with normal buckets, it is possible to edit bucket dimensions etc. and calibrate tooth length.

- 1. Tap \(\mathbb{Z}\) on the target bucket in the bucket configuration
- 2. Tap and edit each value (Including angle measurement of the tilt link)
- 3. Tap v to save





Chapter

Check cutting edge accuracy

3.1 Check cutting edge accuracy

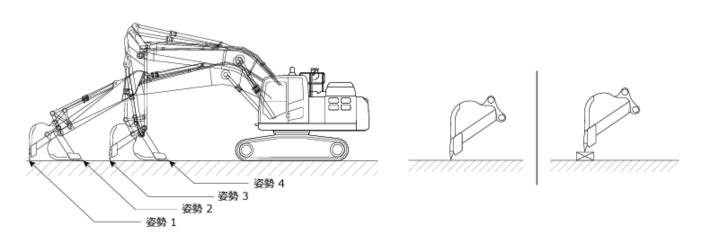


After tilt bucket calibration, please carry out cutting edge accuracy check.

If the calibration is successful, machine guidance is possible using the tilt bucket.

For more information on cutting edge accuracy check, please refer to the manual of the tablet application.

*Please note that too large a tilt angle may result in low cutting edge accuracy.





Chapter

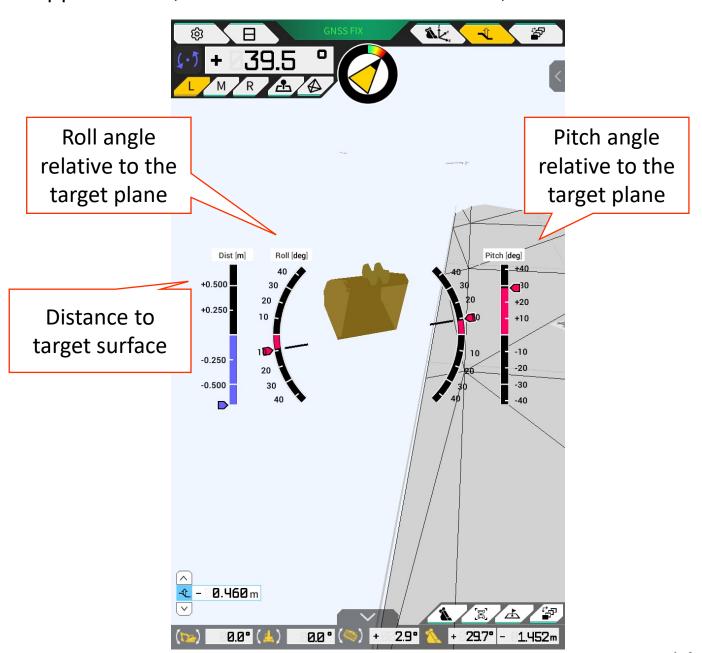
Machine guidance display

4.1 3DMesh



After setting up the tilt bucket file, the '3DMesh' view can be selected in the guidance screen.

Please make use of this view according to your application. (Other views can also be used)



Contact information



Inquiries about products and defects:

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Europe

US

<u>Australia</u>

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