Smart Construction Pilot v1.0.03 Updates

EARTHBRAIN

Re-select the region code

When the application is updated, a screen will be displayed to re-select the region code.
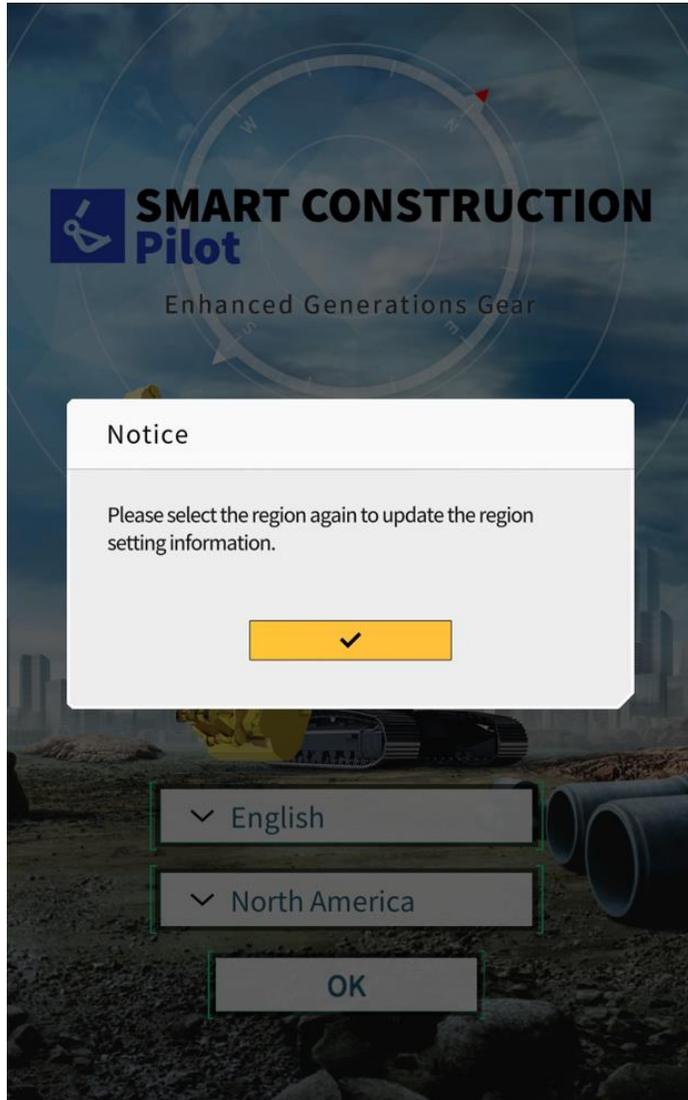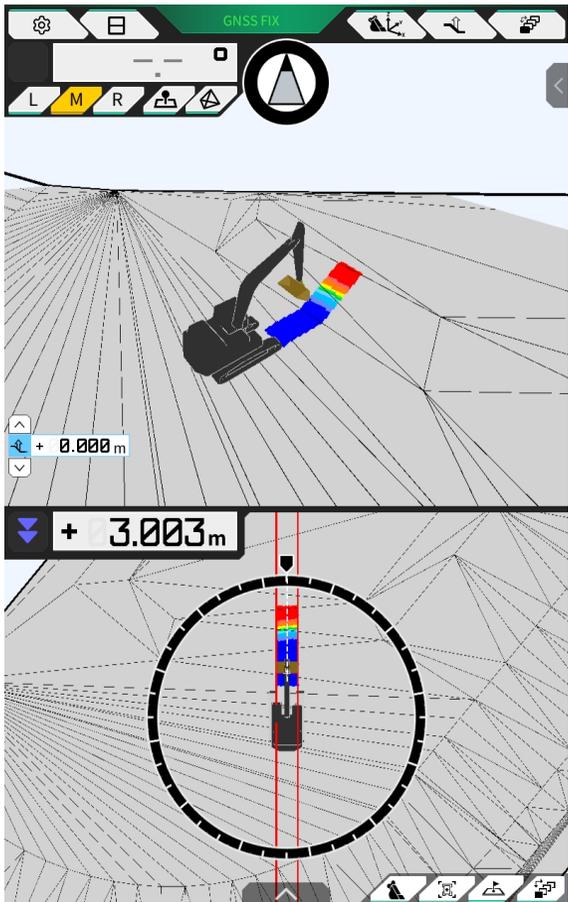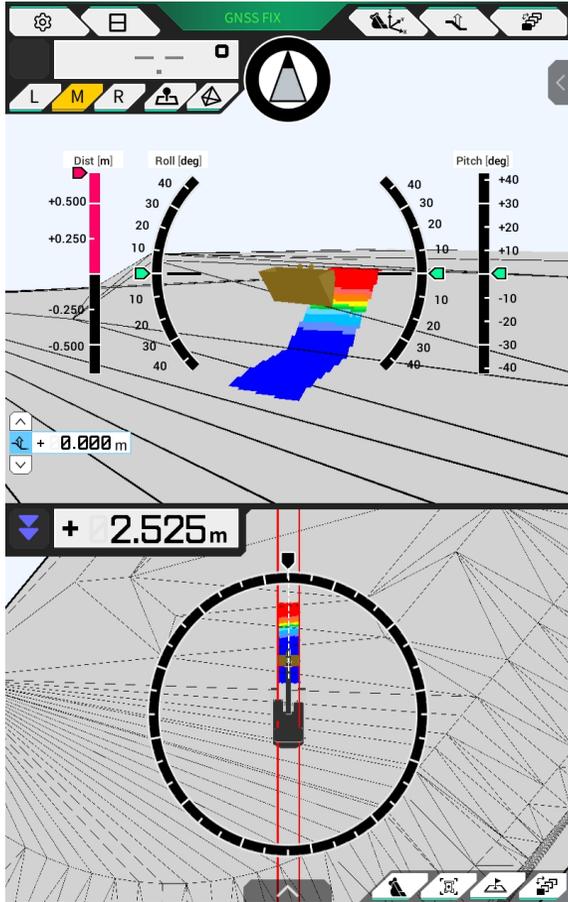

■Important

There was a problem with the region code used in "Payload Meter", so please re-select "Region" when updating the application.

The Plan view will be changed to a camera-view directly above the machine. With this change, the "Bucket Width Line" can be toggled ON/OFF. Additionally, the heatmap is displayed in 3D/3DMesh-view now.
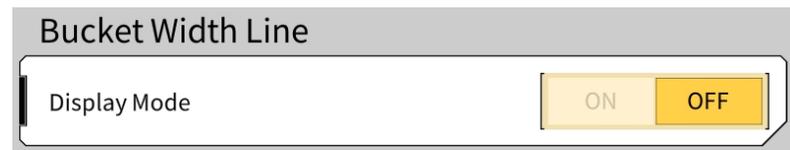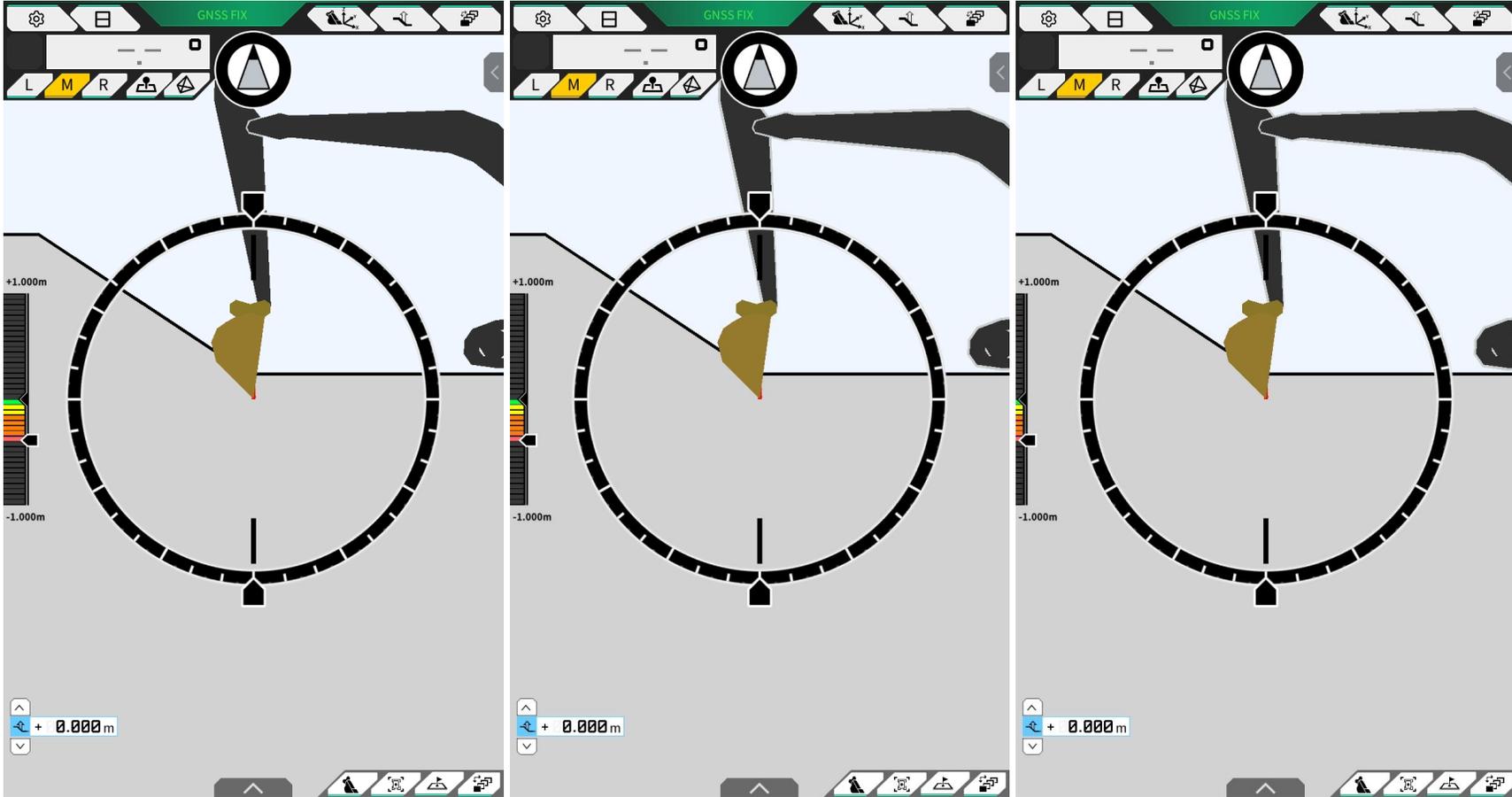

3D

3D Mesh

"Bucket Width Line"-display can be toggled ON/OFF from
Menu > Guidance Settings
> Application Settings

Default is "OFF"

Able to change Light Bar-width

The width of the Light Bar can now be changed from "Large," to "Medium," and "Small".
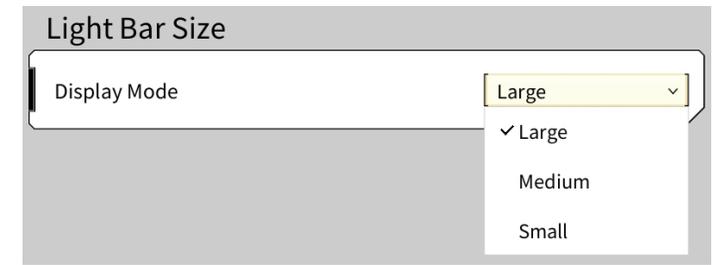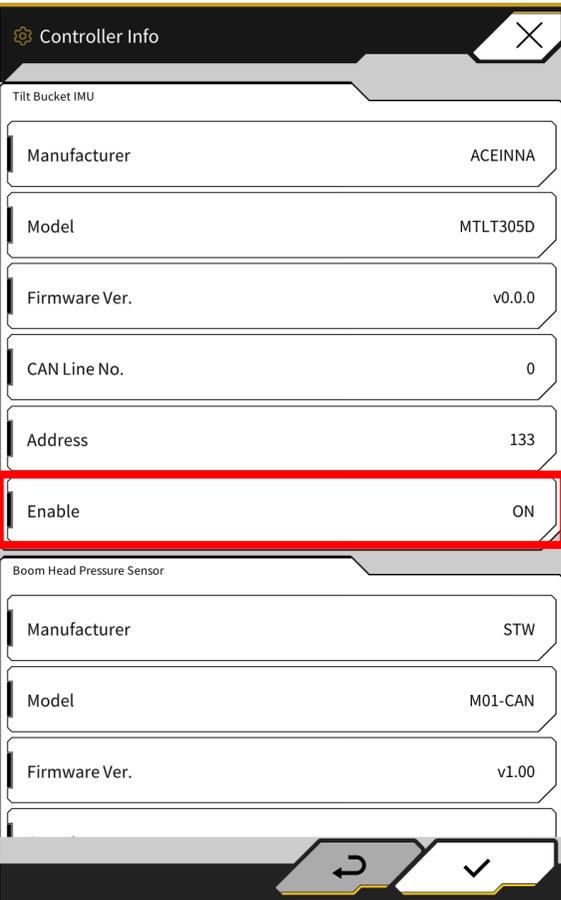

Large

Medium

Small

"Light Bar Size" can be changed from
Menu > Guidance Settings
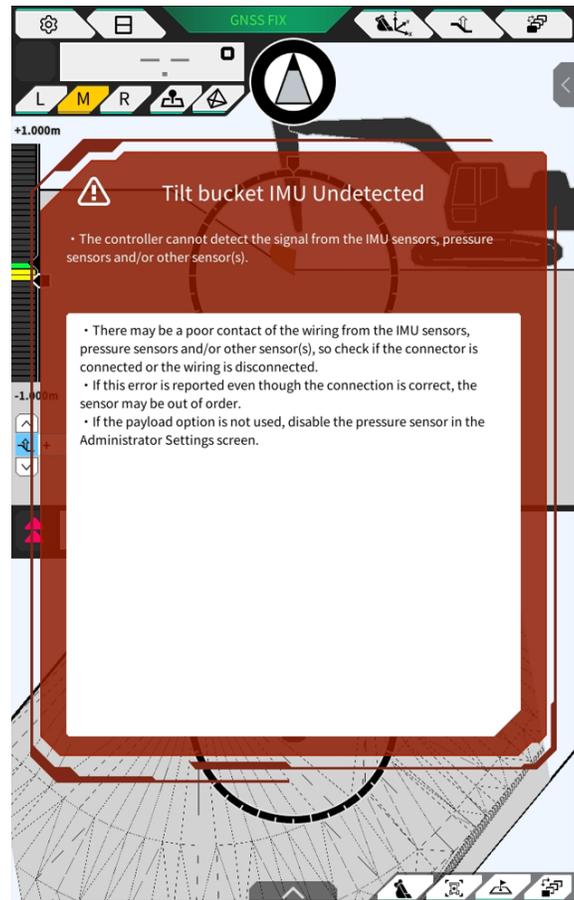> Application Settings

Default is "Large"

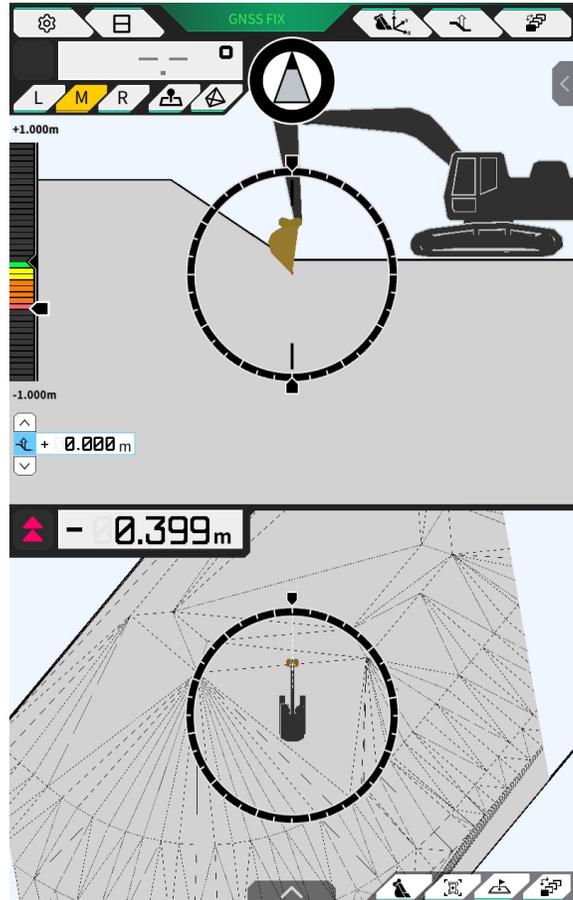# Automatic tilt-deactivation when selecting normal bucket

There will be no longer an error when changing from tilt-bucket to normal/slope bucket even when the tilt-imu is activated.

Tilt bucket IMU is "ON"

Tilt bucket is attached
[Tilt bucket IMU error is displayed]

Standard/Slope bucket is attached
[Tilt bucket IMU error is NOT displayed]

Refine your search in the projection list

When selecting "Projection" and "Geoid Name" on the Projection Settings, you can now refine your search by inputting text.
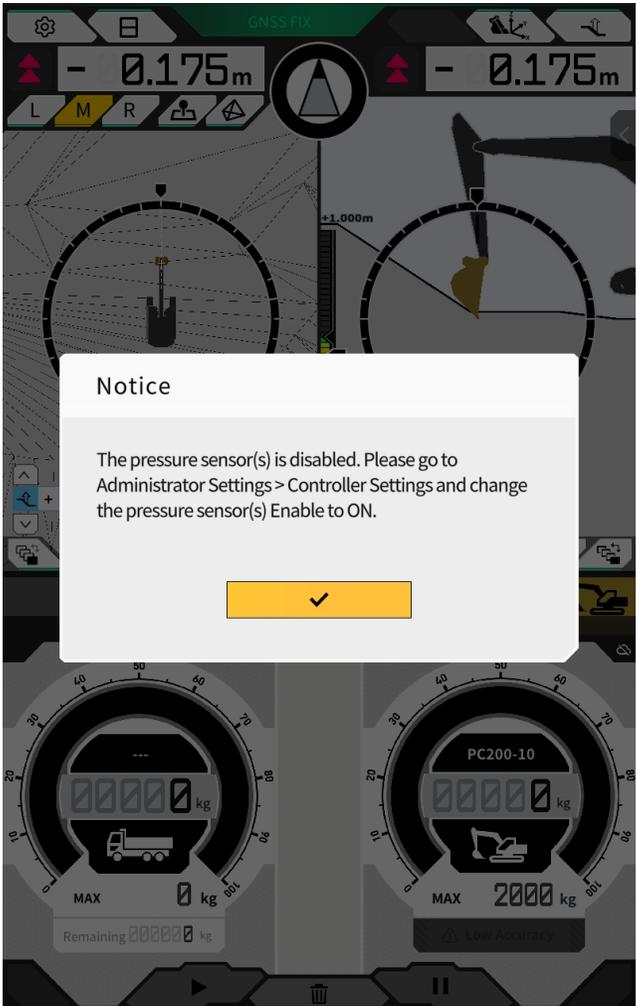
When you tap the pull-down list, the onscreen keyboard shows up and you can refine your search by inputting text.

Show a dialog box when pressure sensor(s) are disabled

When you select "Payload Meter" or "3-display mode" in "Machine Guidance" and the pressure sensors are disabled, a dialog box will appear informing the sensors are disabled.
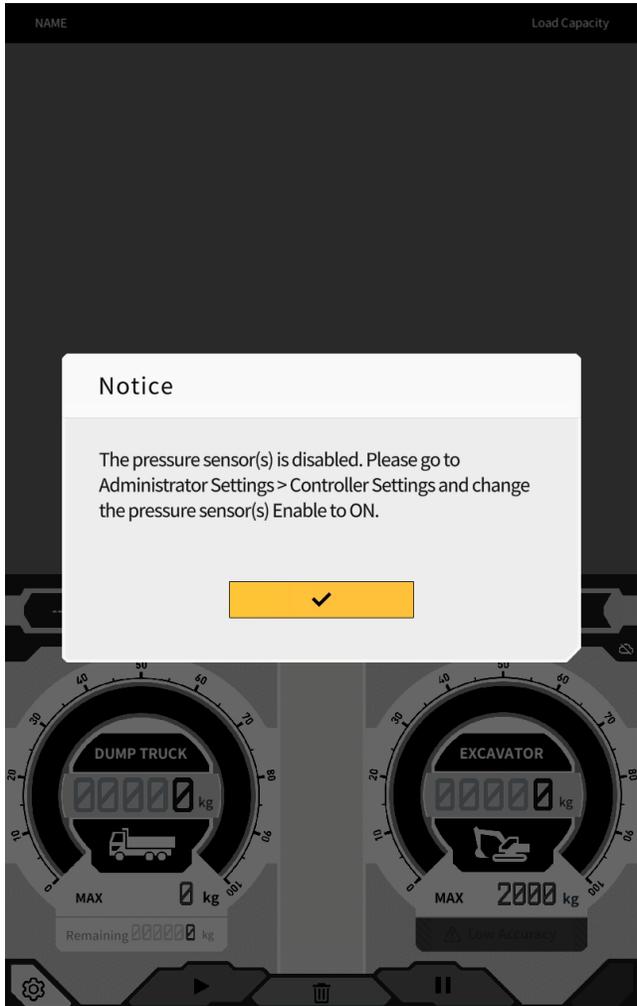
When the dialog box is displayed and the payload sensors are installed, follow the instructions in the notification to change the pressure sensor settings:

Administrator Settings > Controller Settings

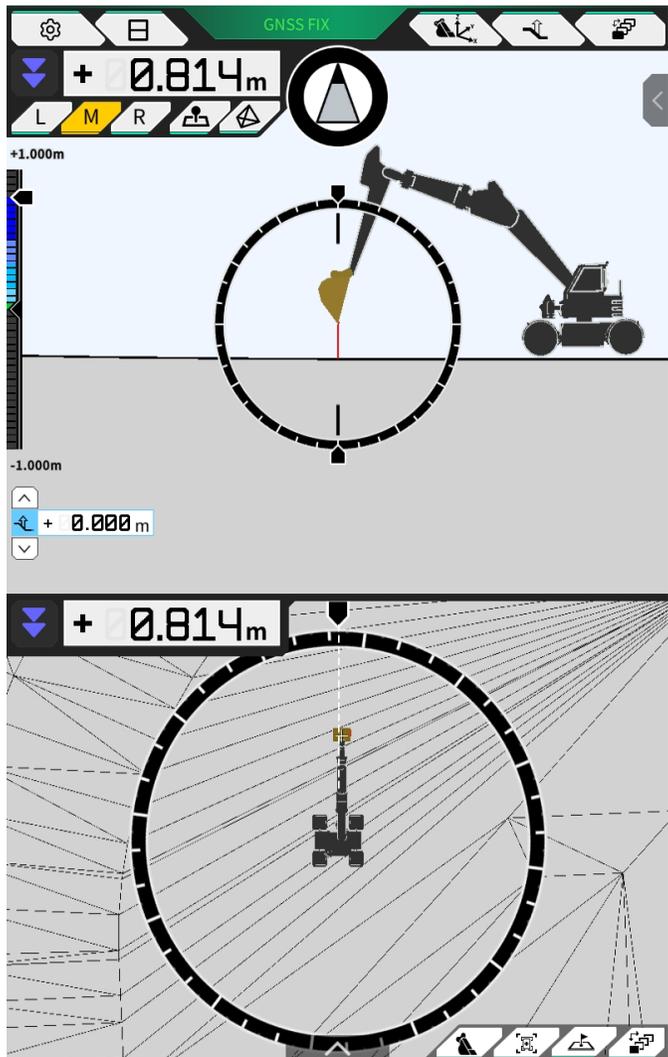# Compatible with 2-Piece Boom model

"Machine Guidance" and "Payload" are now available for 2-Piece Boom models.
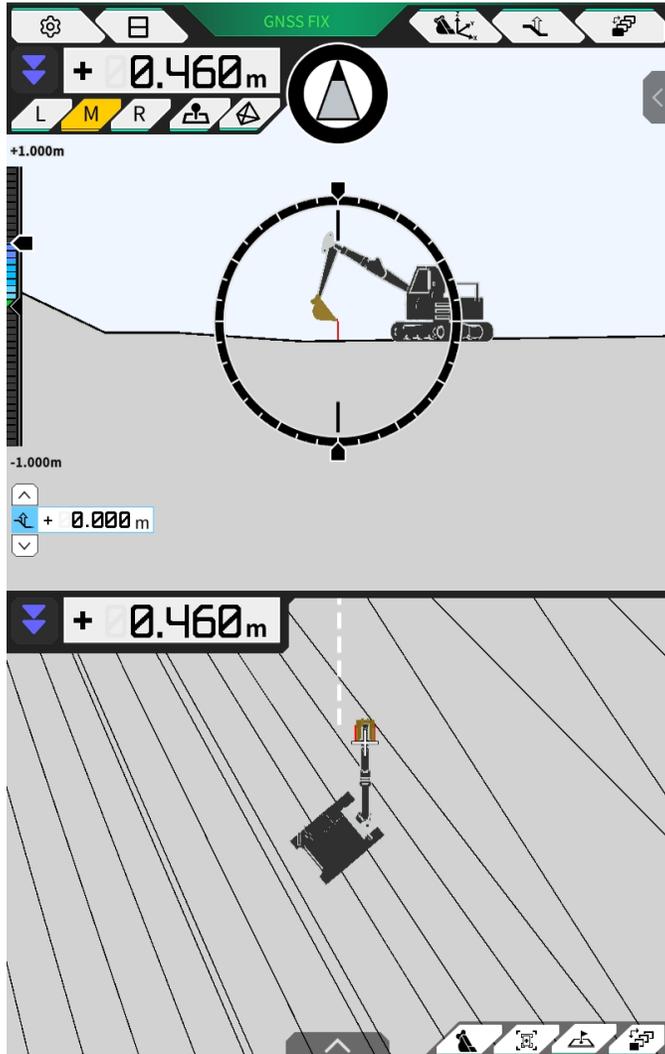

■ Important

It is required to **install the 2nd Boom IMU** when using 2-Piece Boom models.

Please turn ON "2 Piece Boom Function" from Menu > Guidance Settings > Application Settings, then perform Machine Calibration.

2 Piece Boom Function

Display Mode   ON   OFF

*This function is available with controller firmware 1.5.6 or later

Swing Boom model-compatibility
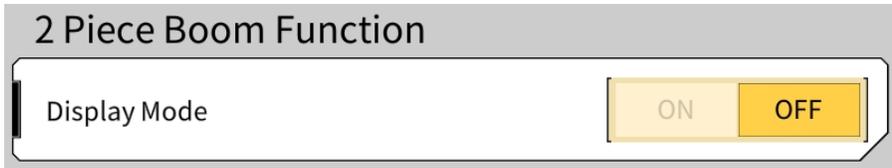
## "Machine Guidance" is now available for Swing Boom.

■ Important

It is required to **install the swing sensor and link structure** when using a Swing Boom-model.
***Payload Meter is unavailable** for Swing Boom
***PC30MR is the only supported model** for now

Please turn ON "Swing Boom Function" from Menu > Guidance Settings > Application Settings, then perform Machine Calibration. After Machine Calibration, perform Swing Sensor Calibration.

Swing Boom Function
Display Mode   ON   OFF

*This function is available with controller firmware 1.5.6 or later

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Other updates and fixes
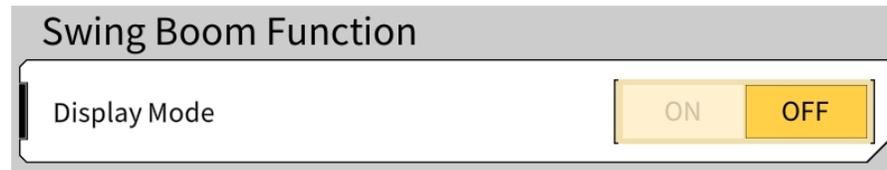
Add Bucket Configuration menu to Payload Meter

Buckets can now be changed without moving to Machine Guidance.

Adjust zoom touch sensitivity and zoom level

Adjust zoom touch sensitivity and zoom level to allow for more magnification.

Fix a bug of local coordinate transformation

Fix a calculation bug in case of a specific local coordinate.

Correction of payload calculation to improve accuracy

Addressed the issue of low payload accuracy in certain machine operations.

Modify interval for sending GGA to Ntrip Caster

There was a case that GGA was sent to the Ntrip Caster at very short intervals after setting up the Ntrip Settings. This has been corrected.