

Maintenance manual

This is a brief description of how to maintain your Unicontrol system. The warranty is dependent on you following the directions in this guide.

If any products described in this guide are missing or broken, new ones can be ordered through your Unicontrol dealer.

Packing and unpacking the system

When removing the GNSS antennas, always store and transport them in the hardcase provided with the system.

Always attach the dust caps to the disconnected GNSS cables to pre-vent water, dust, and dirt from collecting in the connector.

Tablet

The tablet is safely stored in the provided hardcase but can be used independent of the machine for evaluating drawings and learning new features. When using the tablet outside the machine, always use the provided authorised charger to prevent damages to the tablet.

It is possible to install other apps on the tablet, but this can impact the performance of the Unicontrol system.

The screen should only be cleaned using a soft lint-free cloth. A little water can be used if needed. In rare cases, a 1:1 mix of water and pure alcohol can be used. Any other liquids can damage the screen.

Cleaning of the Tablet charging pads and pogo pins

The charging pads of the tablet must be cleaned regularly. This will ensure a good connection for charging.

Items needed for cleaning

- Cotton Swabs or a clean, soft cloth
- Min 50% Isopropanol solution

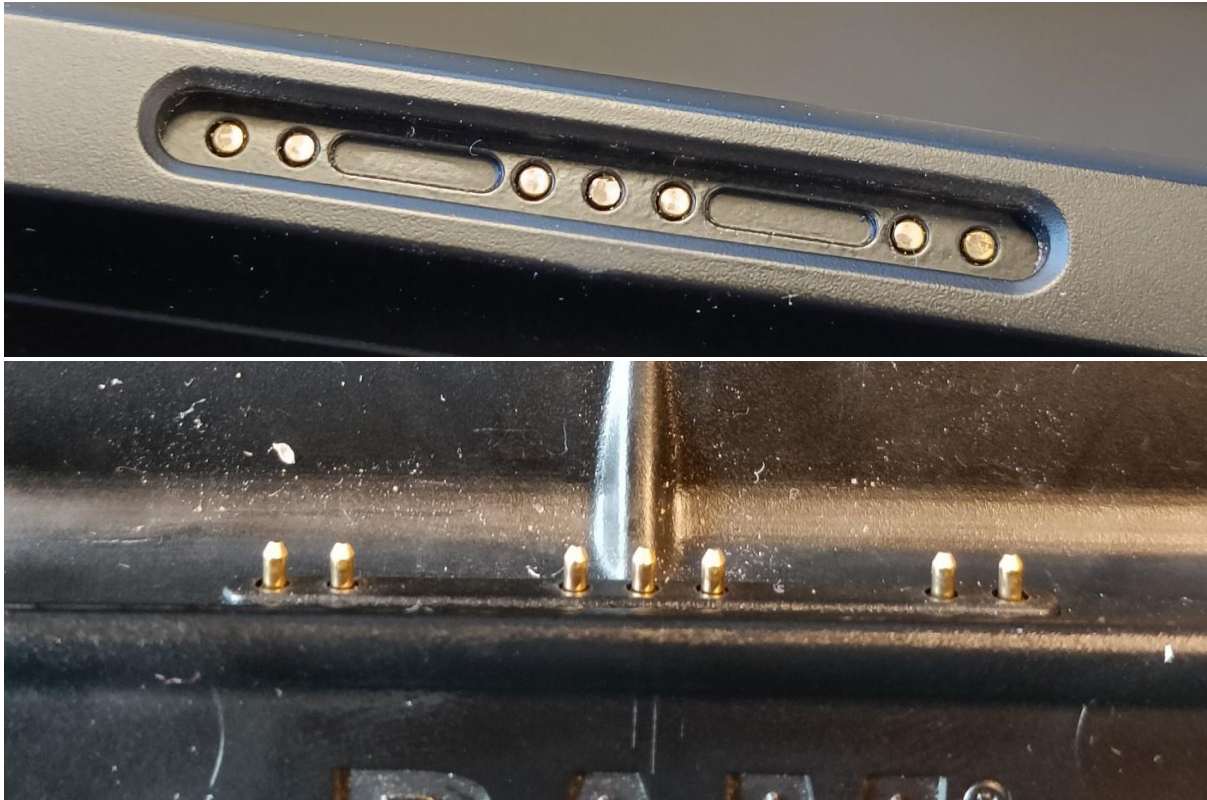
As an alternative to an Isopropanol solution. A light soap-water solution can be used.

Cleaning method

1. Dip the cotton swab in the solution so it is moist.
2. Wipe the pads/pins, shown in the picture below, with the swab.

Repeat the steps above until all dirt is removed and the pads/pins are shining again.

3. Dip the cotton swab in clean water so it is moist
4. Wipe the pads/pins with the cotton swab
5. Wipe the pads/pins with a dry cotton swab
6. Let the pads/pins dry before placing the tablet in the holder again



Moving the tablet holder

The suction cups on the tablet holder are dependent on being mounted on a clean surface. When moving the tablet holder, make sure the window and suction cups are thoroughly cleaned for dust and grease, as it otherwise might fall.

Swing boom wire cable

The wire should be kept free of dust and grease. At the end or start of the workday, clean the exposed wire with a cloth or similar. In freezing conditions, temperatures below 0°C, make sure the cable moves uninhibited by pulling the wire gently before operating the machine, and observing it retract.

Every month the following maintenance should be performed

Wire should be treated with PTFE Teflon spray. Put the swing boom in centre position. Clean the exposed wire. Gently pull the wire 20-30 cm out. Apply the PTFE Teflon spray at the wire exit point while slowly letting go of the wire.

The tellurite (wire lock) must be checked to make sure the wire is not fraying.

If the wire bracket is mounted with straps, make sure it is still properly secured.

Detachable tilt or tiltrotator

When detaching the tilt attachment, make sure to attach the dust cap on the loose cable to prevent water, dust, and dirt from clogging in the connector.

Sensor cables

Sensor cables, from cabin to bucket, should be inspected monthly for any damage. Inspection should also be performed after collisions or tearing during operation of the machine.

Regular system check

Regularly check the system accuracy. Accuracy can be affected by bucket wear, machine slack and correction data.

Also, always check the accuracy after a long-time storage or drop of components.

Environmental specifications

All ratings are based on a fully installed system with all connectors capped or connected as described in the Installation Manual.

| HARDWARE | RATINGS | Operating temp. "C" | Storage temp. "C" |
|--------------------------|-------------|---------------------|-------------------|
| IMU sensor | IP67/IP69K* | -40° to +85° | -40° to +85° |
| Wire sensor | IP65 | -20° to +90° | -40° to +85° |
| GNSS Receiver DURO | IP67 | -40° to +75° | -40° to +85° |
| GNSS Receiver Septentrio | IP67/IP68** | -30° to +65° | -40° to +75° |
| GNSS Receiver Trimble | IP67 | -40° to +75° | -55° to +85° |
| GNSS Antenna GPS500 | IP67 | -40° to +85° | -55° to +85° |
| GNSS Antenna 600A | IP67/IP69K* | -40° to +85° | -55° to +85° |
| GNSS Antenna UA35 | IP67/IP69K* | -40° to +85° | -55° to +100° |
| Router IR302 | IP30 | -20° to +70° | -40° to +85° |
| Router VG710 | IP64 | -30° to +70° | -40° to +85° |
| GNSS cables | IP67 | -25° to +80° | -25° to +80° |
| Sensor cables | IP67 | -30° to +90° | -40° to +90° |
| Tablet | IP68 | -20° to +70° | -40° to +80° |

*IP69K requires special cables

** IP68 requires special cables