IRT TCR – Software Update Using a MicroSD Card

Customer instruction • Updating software using a MicroSD card

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Figure 1. IRT TCR models with one or two heating cassettes.

1 Safety information

WARNING – ELECTRICAL HAZARD The equipment contains hazardous mains voltage. Only trained and authorized personnel competent to access electrical enclosures may carry out this procedure.

- Before opening the front cover, switch OFF the main power switch, disconnect or isolate the incoming mains supply, and follow local lockout requirements.
- Do not touch exposed electrical connections, wiring or circuit board components. Only access the MicroSD card holder.
- Never energize the equipment with the front cover open. All live parts must remain inaccessible whenever power is connected.
- Keep all heating and UV functions OFF. Allow the machine to complete its cooling cycle before starting.
- Use a formatted MicroSD card containing the correct Hedson firmware (.fwc file). Never remove the card or interrupt power during an active update.

Required items: Torx T20 screwdriver and a correctly formatted MicroSD card with the appropriate Hedson firmware file stored in the card root directory (for example, koster_v1.18.2.fwc). Any compatible MicroSD card can be used; it does not need to be supplied by Hedson.

2 Prepare the control unit and insert the card

01 Stop any running curing program and allow the cooling cycle to finish.

02 Switch OFF the main power switch. Isolate the incoming mains supply before opening the control unit.

03 Remove the front cover screws. Carefully open the cover without pulling or damaging the display cables.



Figure 2. Main power switch on the control unit front.

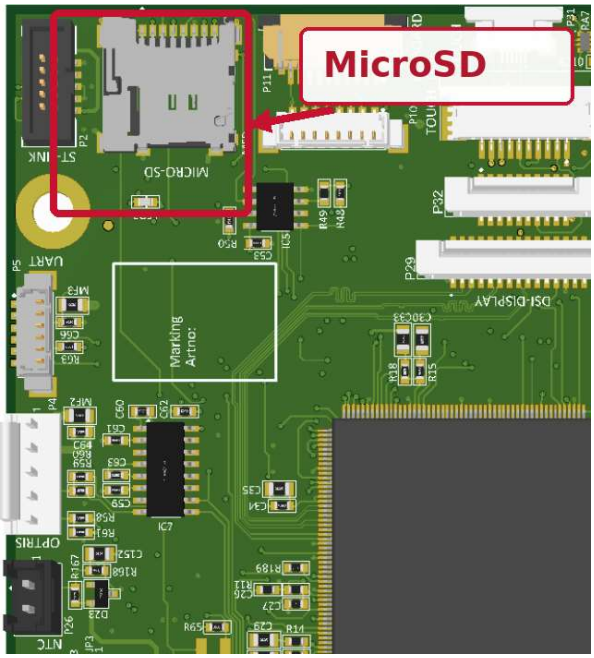


Figure 3. MicroSD location on the main board (card slot at top).

04 Locate the MicroSD card slot on the main board (Figures 3–4). Carefully insert the prepared MicroSD card until it is fully seated.

05 Close the front cover. Temporarily secure it with one retaining screw only if the cover is fully closed, stable and prevents access to live parts. Otherwise, reinstall all cover screws before restoring power.

06 Restore the mains supply and switch ON the main power switch.

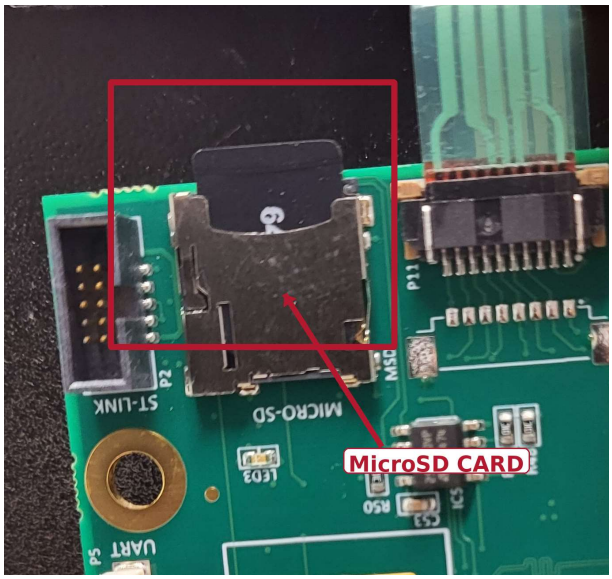


Figure 4. Actual MicroSD card holder on the main circuit board (card shown inserted).

3 Install the new software

07 When the display has started, open the Navigation Menu and select Settings (gear icon).

08 Enter access code 0768. Depending on the display, the code may be shown without its leading zero (768).

09 Select the Software Update icon (download arrow).

10 Select the correct Hedson firmware program from the list. The current software version for this instruction is v1.18.2 (file example: koster_v1.18.2.fwc).

11 Start the update and wait until the progress bar reaches 100% and installation has finished.

12 Do not turn OFF the main power switch or remove the MicroSD card during installation.

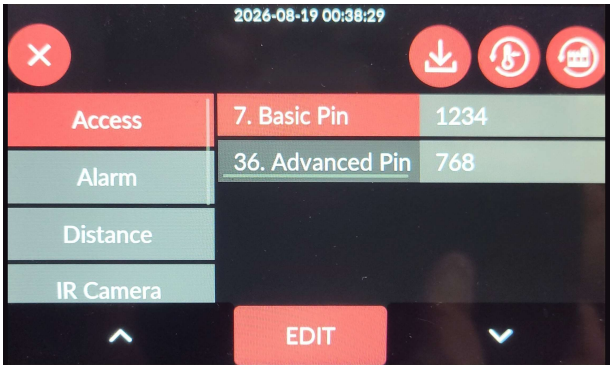


Figure 5. Settings menu: Software Update icon at top.



Figure 6. Update in progress (example at 28%).

IMPORTANT Figure 6 shows an update in progress. The example displays 28%; continue waiting until the bar reaches 100% and the installation is complete.

4 Restart, verify and remove the MicroSD card

13 After the installation has finished, turn OFF the main power switch. Wait approximately 5–10 seconds.

14 Turn ON the main power switch again.

15 The display may remain black for approximately 15 seconds while the new software starts. This is normal. Allow startup to complete.

16 Confirm that the installed software version is v1.18.2. If required, check the version under Navigation Menu > Service > System Information.

17 Turn OFF the main power switch again and isolate the incoming mains supply before opening the control unit.

18 Remove the temporary front-cover screw, carefully open the cover and remove the MicroSD card.

19 Close the front cover and reinstall ALL the original screws. Check that the cover is correctly secured and no cables are trapped.

20 Restore the mains supply and switch ON the main power switch.

21 Check that the display starts normally and no alarms are shown. The software update is complete.

FINAL CHECK Before returning the machine to operation, make sure the front cover is fully assembled and all safety guards are in place.

5 If the update does not complete

If the progress bar stops, an error appears, the controller does not restart normally, or the expected version is not displayed, do not repeatedly interrupt power or attempt unapproved recovery procedures. Contact Hedson Technical Support.

Support: support@hedson.com | www.hedson.com