

MCU 5 Firmware Update

instructions for service purposes

Dear Customer,

Dear Service Partner,

This is the instruction to update the firmware on the treadmill via para control to the newest version.

To avoid firmware update errors and misunderstandings, we have compiled below some information for you.

We go in this firmware update instruction by a firmware version 1.02.3 or higher.

Along with the firmware update, you also will receive a new manual. Please use from now on only this manual. After the firmware update your previous manual does not match to all details in the use of your treadmill. We therefore recommend to destroy them.

Notes on the implementation of the firmware updates:

1. Install the current para control 4.1. See http://www.h-p-cosmos.com/en/software/para_control.htm
2. Select the user option of the treadmill, the interface protocol COSCOM or COSCOM v3.
See http://www.h-p-cosmos.com/en/software/para_control.htm
3. Connect your PC or notebook with an original h/p/cosmos interface cable with the h/p/cosmos running machine.
http://www.h-p-cosmos.com/en/options/rs232_interface_converter.htm
4. Start the control para 4.1. The treadmill is automatically detected
5. For the firmware update, follow the instructions below.

A Identification of the device

This instruction applies to the treadmill ergometers of the device series h/p/cosmos mercury 5.0, h/p/cosmos quasar 5.0 and the respective OEM - products.

B Safety instructions



Danger through active components at opened motor area!

Repairs and maintenance works on h/p/cosmos products may only to be performed by technicians explicitly authorized by h/p/cosmos. Above all electrician is the minimum requirement on the education of the technician.

Possible damages caused by inexpert treatment or incorrect installation are not covered by the h/p/cosmos warranty.

C Time needed


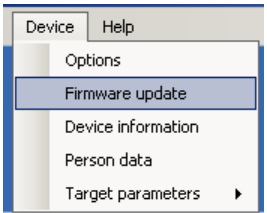
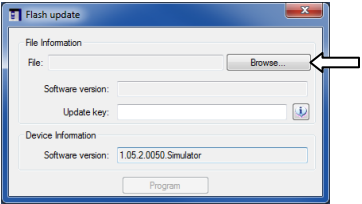
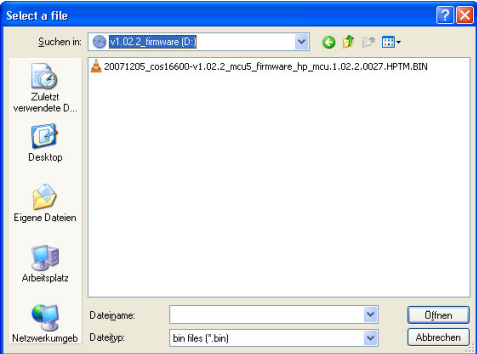
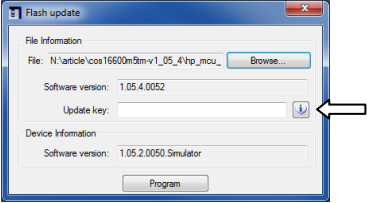
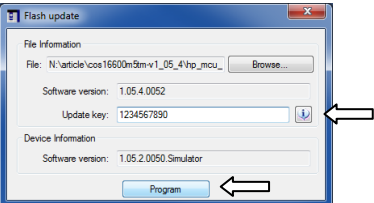
10 to 15 min.

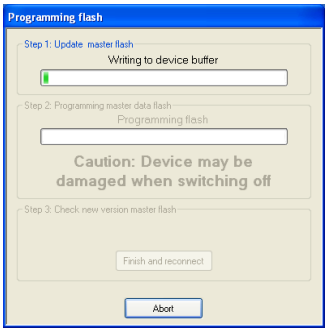

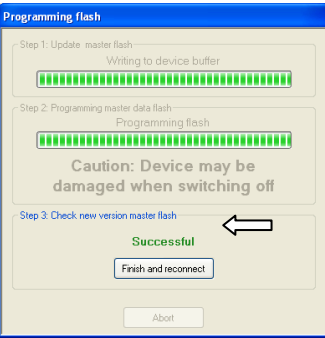

D Work preparation

Install the current control para 4.1. See manual para control

http://www.ahead-of-time.net/manual/20071210_cos10071-v4.0man-en_manual_h-p-cosmos_para_control_4.0-pn.pdf

E Work steps

Item	Illustration	Work step
[01]		<p>Please connect the treadmill with PC and start the Software h/p/cosmos para control 4.1.</p> <p>Please assure the connection to the treadmill. You can check it at the green LED.</p>
[02]		<p>Please start the firmware-update with</p> <p>Device ⇨ Firmware update.</p>
[03]		<p>The Window Flash update opens automatically.</p> <p>Please press Browse...</p>
[04]		<p>Next please search for the firmware data (*.bin) for Update.</p> <p>Sample: On a CD or a DVD.</p> <p>20071205_cos16600v1.02.2_mcu5_firmware_hp_mcu.1.04.05.0054.HPTM.BIN</p> <p>Please select the firmware data with double mouse click.</p>
[05]		<p>For Update you need the update key supported by h/p/cosmos.</p> <p>Please send the serial number of your running machine together with the firmware version to which should be updated to h/p/cosmos. There you will receive the update key.</p>
[06]		<p>Please insert the update key and press Program to start the update.</p>

<p>[07]</p>		<p>h/p/cosmos para control 4.1 starts with programming the device buffer.</p> <p>Warning!!! Please assure, that nobody switch off the treadmill or disconnect the interface cable. It could be generated a problem with the MCU5 control board!</p>
<p>[08]</p>		<p>After some minutes h/p/cosmos para control starts with programming the flash.</p> <p>Warning!!! Please assure, that nobody switch off the treadmill or disconnect the interface cable. It could be generated a problem with the MCU5 control board!</p>
<p>[09]</p>		<p>After the complete update you can see the message Successful. Then please press the button Finish and reconnect.</p> <p>h/p/cosmos para control 4.1 will reconnect to the treadmill.</p>
<p>[10]</p>		<p>After the update the display or the h/p/cosmos para control screen shows following error code. E 51 FU b1 HELP HELP HELP</p> <p>As with every firmware (software) update you have to restart the treadmill and the h/p/cosmos para control. Please switch off the treadmill and wait for 30sec.</p> <p>After this time, switch on the treadmill. The treadmill now shows the start screen.</p> <p>You can use the treadmill normally.</p>

F Check up / take into operation again

After repairing all screws of the exchanged parts need to be checked. Reassemble the covers and test all general functions of the device. Test the indication of the speed and the elevation with the display control form.

After each repair (electrically and/ or mechanically) of an h/p/cosmos product a technical safety check has to be performed according to h/p/cosmos instructions. The respective check-up protocol is available at http://www.ahead-of-time.net/h-p-cosmos_forms03_service_report.pdf or on demand at h/p/cosmos. This technical safety check-up contains the electrical safety measurements according to DIN VDE 0751 for medical devices, resp. DIN VDE 0701 for sports devices.

The performed repairs or maintenance have to be noted down on the h/p/cosmos service report form. The respective form is available at http://www.ahead-of-time.net/h-p-cosmos_forms04_control_protocol.pdf or on request at h/p/cosmos.

Both forms, check-up protocols and service report forms have to be sent to h/p/cosmos after conclusion for our technical product file of the h/p/cosmos products.

G Disposal / redelivery

Return all exchanged / defect parts back to h/p/cosmos. At warranted spare parts, we can only issue a credit note when the defect parts have been returned to h/p/cosmos. Please also return not warranted parts. In individual cases (low value of goods, high shipment costs) the defect parts can be disposed after consulting h/p/cosmos.