

Final Quality Control Instructions for Mountbatten Tutor



HARPO

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Responsible person: Quality Assurance Manager

Scope: Final quality control for Mountbatten Braille Tutor

Aim: To describe and carry out quality control process of the Mountbatten Tutor

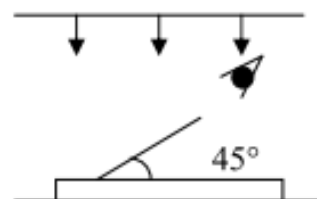
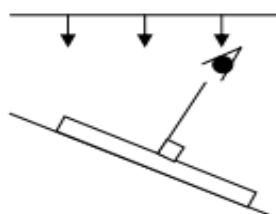
- **Product:** Mountbatten Tutor

Conditions:

The direction of observation in relation to the lighting conditions:

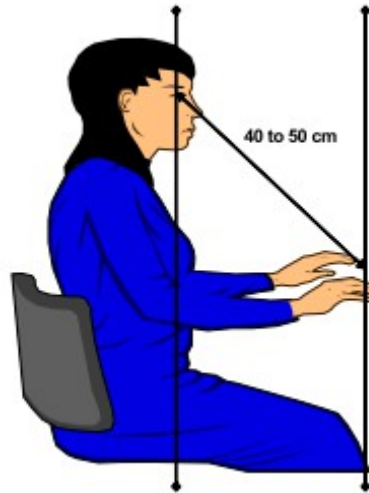
The device must be set up on a flat surface so that the viewing angle is 45° so that the controller's gaze is directed straight ahead at the device.

To ensure complete inspection of the device under all possible lighting conditions, rotate the device so that all defects are visible.



Distance from the observed device

The standard viewing distance measured from the eye to the object for all surfaces is 40 to 50 cm.



Time to observe visual defects

The standard control time for each zone is 5s.

A maximum time of up to 10 seconds is allowed, however, if there is a fault, it can not be noticed within 10 seconds, the defect should be accepted.

Device protection

The device must be on a clean foam base.

Mountbatten Tutor			Quality Control Instructions
	What is checked	Control method	The expected result
1	Housing, keyboard	Control of the aesthetics of the device	No scratches, case integrity, stable on desk (both main and keyboard)
2	Keyboard	Check efficiency of the keyboard (each button and 4-way manipulator)	No buttons jamming, keyboard performance good
3	Paper bail shaft	Introduce 140 g/m2 paper sheet	Check the message
4	Embossing quality & readability : emboss serial number and device info	Emboss serial number and device information	Valid serial number. Correct Braille characters.
5	Save file in memory	Create a file in the device's memory, introduce some text from keyboard, close the file	The file exists in the memory and contains the typed text
6	Typing and embossing test at different speeds (minimum and maximum speed)	Download a text file from the machine's memory, launch it with the fastest and the slowest speed.	Correct text is embossed
7	Braille character correction quality	Erasing the text (with Space-Backspace keys pressed simultaneously)	Braille quality check, erased characters not standing out off the paper surface.
8	Multistrike embossing	Multiple strike mode on – emboss a few lines of text	No head jams, freezing or system errors. No extra dots embossed.
9	Character correction/changing to another character	Change Braille character to another	Blurred braille dots not present, characters newly entered clear and readable.
10	Embossing a file from PC (use MComm)	Connect the device to a PC computer with USB cable, emboss a text paragraph from the PC.	Correct and readable Braille text
11	Connecting to a mobile device (iOS)	Connect the machine to the phone via Bluetooth in Whiteboard mode. 1) Enter the text "HEY" on the phone – see the machine emboss. Check correctness. 2) Type "HEY" on the machine's keyboard – see the sting on the phone.	1. The correct Braille text is embossed on the machine. 2. The correct text is shown on the phone display.
12	Wi-fi module test	Connect to a Wi-fi network 1. using the devices menu 2. using pendrive with configuration file in the LEFT USB socket	1. 2. Wifi connection established, online Update Advanced Module – no error reported

13	Paper shaft and lever check	Remove the paper sheet. Load 80 g/m ² paper sheet	Lever Up message, paper slips seamlessly in the machine
14	USB port	To check the USB sockets insert a pendrive and read its contents	Message indicating the USB pendrive introduction and files readable
15	Speech	Connect headphones, check the efficiency of the socket with loudness set to middle and maximum loudness	Menu items description audible from the headphones while browsing the menu
16	Battery charging Keyboard battery charging	Connect the device to the power supply delivered with the device turned on and off. Check if the the keyboard is being charged when placed in its socket, whether it charges inductively and using the delivered USB-C cable.	Message indicating charging of main battery Message indicating charging of the keyboard battery
17	Factory settings	Return to factory settings by choosing the corresponding option for the menu	No files present in the internal memory of the device, settings returned to default.
18	Switch the device off	Replace the paper with 140 g/m ² paper and enter the inspection date. Switch off the device with a button	Message indicating the paper lever up. Message indicating the device is going off ('bye bye').

6. Documents:

P_V Quality Control Instructions for Mountbatten Tutor

Mountbatten Tutor Quality Control Procedure Form on paper

Electronic Mountbatten Tutor Quality Control Procedure Form

Quality Standard for Mountbatten Tutor

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Edited:

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