Bee-Bot™

Rechargeable, child friendly, programmable floor robot

See & Say!

User Guide

www.tts-group.co.uk

Age 3+

Bee-Bot is an award winning programmable floor robot with a simple, child-friendly layout which is a perfect starting point for teaching control, directional language and programming to young children.

Please read all instructions carefully before using and retain the packaging as it contains important information.

Pack Contents
• Bee-Bot.
• User Guide.
• USB charging lead (note that this lead is solely for the purposes of charging Bee-Bot's battery and cannot be used for transferring data).

Contents

Know your product

↑ Forward

↓ Backward

← 90° Left turn

→ 90° Right turn

II 1 second pause

✗ Clear the memory

GO Start the program

USB Charging Socket

Sensor OFF/ON

Power OFF/ON

Sound OFF/ON

Programming Your Bee-Bot

Your Bee-Bot has been designed as a simple floor robot.

After initial switch-on, the sequence memory is cleared, pressing <Go> at this point will simply cause a sound to be played and no motion to occur.

The user can press a sequence of commands, which are stored in the sequence memory. A maximum of 200 commands can be stored; each command being either one forward/backward movement, left/right turn, or a pause.

- Each forward or backward command causes the unit to move approx. 150mm in the required direction.
- Each turn command causes the unit to rotate 90°.
- A pause command causes the unit to pause for 1 second.
- When the <Go> button is pressed, the unit will execute all the commands stored in order with a short pause between each command.
- When the command sequence completes, the unit will stop and play a sound. (The sound can be turned on/off using the switch on the underside).
- Pressing <Go > whilst a sequence is running will stop the sequence.

Bee-Bot Interaction

- To enable the Bee-Bot interaction, ensure all switches on the base are in the 'ON' position. Bee-Bot will recognise another Bee-Bot or Blue-Bot when passing by within a distance of approximately 25cm, environmental conditions such as sunlight and varying temperature can affect this range by +/-10cm. When the sensor is activated Bee-Bot will play a default sound depending on which bot has been detected. The sound will activate every 5 seconds.
- The user can choose to record their own voice on the sensor, so instead of the pre-recorded sound playing when it senses another Bot, it will play the user's recorded sound. To do this press and hold the Go button for 2 seconds until a single beep is heard and record your sound. When the double beep is heard the record time has ended. To clear this function press and hold the clear button for 2 seconds until the double beep is heard.
- To turn this function off move the sensor switch on the base to the 'OFF' position.

Personalisation for command buttons
- The user can record 2 seconds of audio for each command simply by pressing the command button for 2 seconds until a single beep is heard. When the double beep is heard the record time has ended. Once recorded, audio will play back as the command buttons are pressed and then again as Bee-Bot works its way through the commands.
- To reset to the original function, simply press the clear button for 2 seconds until a double beep is heard.

Clearing the Program
- When the memory in Bee-Bot is full, no more commands can be entered.
- Pressing the clear key <X> will clear the sequence memory.

Recharging Bee-Bot
- Insert the USB cable into the charging socket on the underneath of your Bee-Bot.
- Connect the other end to a spare USB port on a PC or laptop. Alternatively, connect to a USB charging plug.
- If you have the Bee-Bot docking station, then place Bee-Bot into the docking station and connect the power cable.
- Eyes flash red to show Bee-Bot battery is low and requires charging.
- Eyes light solid red to show Bee-Bot is charging.
- Eyes light solid green to show Bee-Bot is fully charged.
- It may take up to 2 hours to fully charge Bee-Bot if the battery has been fully discharged.
- Once fully charged Bee-Bot will have approx. 6 hours of normal usage, approx. 1.5 hours when in continuous use.
- Please ensure your Bee-Bot is switched off to charge.
- To maximise battery performance, we recommend charging your Bee-Bot prior to use, for the first time. We advise against leaving your Bee-Bot on continous charge, therefore once the eyes turn white, please remove it from charge.
- To preserve Bee-Bot's battery, we recommend that you give your Bee-Bot at least one full charge every 3 months, even if it hasn't been used.

Low Power Sleep Mode
- If your Bee-Bot is not used for 2 minutes and the sensor switch is in the 'OFF' position, Bee-Bot will play a sound and go into sleep mode.
- If your Bee-Bot is not used for 4 minutes and the sensor switch is in the 'ON' position, Bee-Bot will play a sound and go into sleep mode.
- In sleep mode, very little power is consumed and the batteries will last a long time.
- Pressing any button in sleep mode, wakes Bee-Bot up, plays a sound and flashes the eyes.

Battery Precautions
- Non-rechargeable batteries are not to be recharged.
- Rechargeable batteries are only to be charged under adult supervision.
- The supply terminals are not to be short-circuited.
- Regularly examine for damage to the plug, enclosure and other parts. In the event of any damage, the toy and charger must not be used until the damage has been repaired.

Care & Maintenance
- If necessary, wipe Bee-Bot gently with a clean damp cloth.
- Keep Bee-Bot away from direct sunlight and heat.
- Do not allow Bee-Bot to come into contact with water or other liquids. If painting or gluing on the additional shells, ensure the shells are dry before clipping to Bee-Bot.
- In the event of a static discharge, Bee-Bot may malfunction. In this case, please switch it off and then back on again to reset it.
- Bee-Bot is fitted with a DC 3.7V, 500mAh, Lithium Polymer battery
- The battery is located under a removable hatch held in place by a security screw. Using the correct screwdriver, remove the hatch.
- The battery can now be disconnected. Only the correct replacement battery pack can be used. Connect the new battery and carefully locate the battery in its compartment. Being careful not to trap the wires, replace the battery hatch and secure with the screw provided.

Specification

Your Bee-Bot has been designed to be as accurate as possible in its movements. However, due to the natural tolerances of mass-production, we can make no claims beyond those given below. In most cases you will find that Bee-Bot, on a good clean surface free from bumps, will perform even better.

Specifications	
Forward/backward movement	150mm ±8mm
Left/right turn	90° ±4°
Pause	1 second ±15%
Speed of movement (depends on battery condition)	approx. 65 mm/sec
Batteries (non replaceable)	D.C. 3.7V, 500mAH Lithium Polymer
Battery Life	approx 8 hours in normal usage (depends mainly on amount of movement)
Safety certificates	CE, EN71, EN62115, EMC
Sensor	within approx. 25cm +/-10cm (environment dependant)

Trouble Shooting

Your Bee-Bot is a precision toy that has been designed to work within an Early Years / school environment. However, it is not designed to be dropped or trodden on or otherwise mistreated. Under no circumstances should you open up Bee-Bot as this will invalidate your warranty.

Problem	Solution
Bee-Bot won't do anything	Ensure power switch is "ON" Ensure the batteries are charged
Lights on, but no movement	Recharge the batteries
No sounds	Ensure "Sound" switch is "ON"
Bee-Bot doesn't travel straight	Look for foreign objects in wheels Check for smooth patches on wheels
Interaction not working	Ensure the Sensor and Sound switch are in the 'ON' position Make sure there are no obstacles in between the bots Ensure the mats are fully flat

Waste Electrical and Electronic Equipment (WEEE)

When this appliance is out of use, please remove all batteries and dispose of them separately. Bring electrical appliances to the local collecting points for waste electrical and electronic equipment. Other components can be disposed of in domestic refuse.

The crossed-out dustbin symbols indicates that batteries, rechargeable batteries, button cells, battery packs, etc. must not be put in the household waste. Batteries are harmful to health and the environment. Please help to protect the environment from health risks. If the toy is out of use, please use common household tool to break the product for built-in rechargeable battery operated toy or unscrew the battery door for replaceable battery operated toy, then take the battery out form the toy. Dispose of battery in accordance with your local battery recycling or disposal laws.

Warranty & Support

This product is provided with a one year warranty for problems found during normal usage. Mistreating Bee-Bot or opening the unit will invalidate this warranty.

Technical Support

Please visit www.tts-group.co.uk for the latest product information.

Email feedback@tts-group.co.uk for technical support.

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WARNING: Do not dispose of this product in household waste.

WARNING: Hand it over to a collection point for recycling electronic appliances.

WARNING: Not suitable for children under 36 months due to small parts - choking hazard.

Made in China, on behalf of TTS Group Ltd.

TTS Product Code:
IT10077