

FROM YOUR FRIENDS AT



A JOINT ADVENTURE

**Bee-Bot**<sup>TM</sup>

USER GUIDE

Revision 06

Please Read All Instructions Carefully Before Using

 **WARNING:**  
CHOKING HAZARD – Small parts.  
Not for Children under 3 years.

### Battery precautions

- Batteries should only be fitted by adults
- Only batteries of the same or equivalent type as recommended are to be used.
- Do not mix different types of battery or new and used batteries
- Replace batteries when function becomes impaired
- Remove exhausted batteries from your Bee-Bot™
- Batteries are to be inserted with correct polarity
- Do not short-circuit the battery terminals
- Always dispose of old batteries safely
- Do not mix rechargeable and non-rechargeable batteries
- Rechargeable batteries are to be removed from your Bee-Bot™ before charging

- Rechargeable batteries are only to be charged by an adult
- Do not attempt to recharge non-rechargeable batteries

### **Care & maintenance of your Bee-Bot™**

- Remove batteries from Bee-Bot™ when not in use for a long period of time
- Wipe the Bee-Bot™ gently with a clean damp cloth
- Keep the Bee-Bot™ away from direct sunlight and heat
- Do not allow the 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 your Bee-Bot™
- Please retain the information in this User Guide for future reference.
- In the event of an electrostatic discharge, your Bee-Bot™ may malfunction. In this case, please switch it off and then back on again to reset it.

**Battery requirements**

- 3 off 1.5V AA Alkaline batteries (not included)
- Rechargeable batteries can also be used. NiMH (Nickel Metal Hydride) is recommended
- Do not mix rechargeable and non-rechargeable batteries

**Contents of pack**

- Bee-Bot™
- User Guide
- Outer container which can be used as Bee-Bot™ Carrier by re-folding the top as shown below:



Open all flaps completely



Fold long flaps inwards with roof tiles vertical. Ensure roof tongue is between roof pieces

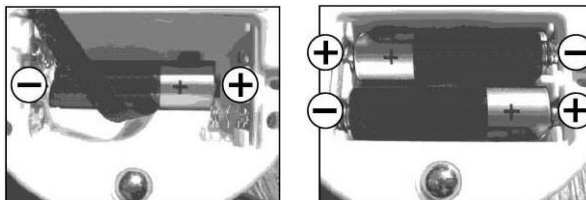


Push roof pieces through slots in end flaps and open finger holes if required

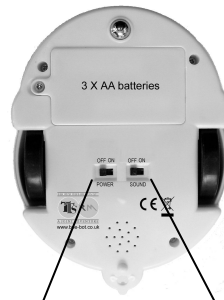
**Installing batteries in your Bee-Bot™**

- Ensure the power slide switch is set to “OFF”
- Use a Phillips head screwdriver to loosen screw on battery compartment
- Insert three new batteries with ‘+’ and ‘-’ signs as shown in the pictures below
- Ensure all three batteries are of same type
- Close the battery compartment door and tighten the screw

Note: Remove exhausted batteries by pulling on the battery removal tape



## Know your Bee-Bot™



↑	Forward
↓	Backward
←	90° Left turn
→	90° Right turn
PAUSE	1 second pause
CLEAR	Clear the memory
GO	Start the program



### Programming your Bee-Bot™

Your Bee-Bot™ has been designed as a simple floor robot, suitable for starting the control curriculum for Foundation, Key Stage 1 and lower Key Stage 2. Programs of up to 40 steps can be set, each step being one of forward/backward movement, left/right turn of 90°, or a Pause of 1 second.

- 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 40 commands can be stored.
- When the <Go> button is pressed, the unit will execute all the commands stored in order with a short pause between each command.
- Each forward or backward command causes the unit to move ~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 command sequence completes, the unit will stop and play a sound
- Pressing <Go > whilst a sequence is running will stop the sequence.

**Programming your Bee-Bot™**

- When the memory in your Bee-Bot™ is full, no more commands can be entered
- Pressing the <Clear> key will clear the sequence memory

**Low power sleep mode**

- If your Bee-Bot™ is not used for 2 minutes, then it will play a sound and go to sleep
- In sleep mode, very little power is consumed and the batteries will last a long time
- Pressing any button in sleep mode, wakes the Bee-Bot™ up, plays a sound and flashes the eyes



## Troubleshooting

Your Bee-Bot™ is a precision toy that has been designed to work within an early years environment. However, it is not intended to be dropped or trodden on or otherwise mistreated.

Under no circumstances should you open up the Bee-Bot™ as this will invalidate your warranty.





<b>Problem</b>	<b>Bee-Bot™ won't do anything</b>
Solutions	<ul style="list-style-type: none"> <li>• Ensure Power switch is "ON"</li> <li>• Replace batteries with new ones</li> <li>• Use a different type of battery</li> <li>• Ensure battery contacts are clean</li> </ul>
<b>Problem</b>	<b>Lights come on, but no movement</b>
Solutions	<ul style="list-style-type: none"> <li>• Replace batteries with new ones</li> <li>• Use a different type of battery</li> </ul>
<b>Problem</b>	<b>No sounds</b>
Solutions	<ul style="list-style-type: none"> <li>• Ensure Sound switch is "ON"</li> </ul>
<b>Problem</b>	<b>Bee-Bot™ doesn't travel straight</b>
Solutions	<ul style="list-style-type: none"> <li>• Look for foreign objects in wheels</li> <li>• Check for smooth patches on wheels</li> </ul>

### 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 your Bee-Bot™, on a good clean surface free from bumps, will perform even better.

Forward/backward movement.....	150mm ±8mm
Left/right turn.....	90° ±4°
Pause .....	1 second ±15%
Speed of movement .....	~65 mm/sec
.....	(depends on battery condition)
Batteries .....	3 x AA type Alkaline
Battery life .....	approx 8 hours in normal usage
.....	(depends mainly on amount of movement)
Safety certificates .....	CE
.....	EN71
.....	EN50088
.....	EN60825
.....	EMC

**Related Products**

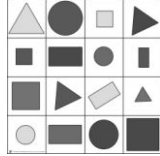
	<b>Class Bundle Pack</b> <b>ITSBUN</b>
	<b>Bee-Bot™ Multiples</b> ITSBOT4 (Set of 4) ITSBOT6 (Set of 6)
	<b>Battery Recharger</b> Includes 4 batteries <b>IREGHAR</b>
	<b>Rechargeable Batteries</b> <b>IREBAT</b> (Set of 4)

**Related Products****Starter Pack**

Contains Bee-Bot, Sequence Cards, Recharger, Batteries, 10 shells, 3 mats

**ITSPACK****Alphabet Mat**

Brightly coloured upper & lower case letters. 75x90cm

**ITSMAT3****Shape, Colour & Size Mat**





Size 60x60cm

**ITSMAT4****Treasure Island Mat**





Directly covers ICT QCA Unit 2D. Size 60x60cm

**ITSMAT1**

**Related Products**

	<p><b>Packs of Shells</b> <b>ITSRS</b> (10 x Red) <b>ITSGS</b> (10 x Green) <b>ITAWS</b> (10 x White) <b>ITSHELL</b> (10 each colour)</p>
	<p><b>Pipe Cleaners</b> Ideal for accessorising your Bee-Bot shells. Box of 1000 assorted colours 15cm long.</p> <p><b>FPCAS</b></p>
	<p><b>Iridescent Film</b> Transparent film that reflects light and shimmers. Size 914cm x 3.18m</p> <p><b>FIRIF</b></p>
	<p><b>Giant Sequence Cards</b> Set of 49 laminated A5 cards. Ideal for program planning and recording.</p> <p><b>ITSCARD</b></p>

**Related Products**

	<p><b>Busy Street Mat</b> Ideal for cross curricular activities Size 120x50cm</p> <p><b>ITSTREET</b></p>
	<p><b>UK Road Signs</b> Set of 14 road signs. Ideal for accessorising your street mat.</p> <p><b>FSIGN</b></p>
	<p><b>Race Track Mat</b> Great for developing route and sequence planning. Size 60x60cm</p> <p><b>ITSRACE</b></p>
	<p><b>Primary Timers</b> Requires 1x1.5v battery (included). Set of 6.</p> <p><b>MPTT</b></p>

**Related Products**

 A transparent grid mat is placed over a map of Scotland. A hand is visible in the top right corner, and a small striped ball is in the bottom left corner.	<p><b>Transparent Grid Mat</b> Place this grid over an existing mat to create your own mats. Size 60x60cm <b>ITSGRID</b></p>
 A stack of white, wipe-clean plastic mats.	<p><b>Plain Mat</b> Wipe clean plastic mat. Size 1.5x1m <b>I-PLAIN</b></p>
 A pack of six Berol fabric marker pens in various colors.	<p><b>Fabric Marker Pens</b> Pack of 6 assorted colours. <b>FFABPS</b></p>
 A pack of ten 1.5 Volt AA batteries.	<p><b>1.5 Volt AA Batteries</b> Pack of 10. <b>EBAT-A</b></p>

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**Support & Warranty**

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

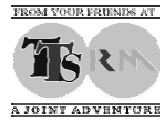
All out of warranty repairs will be subject to a replacement fee.

Please visit [www.bee-bot.co.uk](http://www.bee-bot.co.uk) for free support materials, software simulator and the latest products.

Email [techsupport@bee-bot.co.uk](mailto:techsupport@bee-bot.co.uk) for technical support.



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