Any information about your experience is highly appreciated. Please contact us with your feedback.

Makeblock Co., Ltd.
Address: 4th Floor, Building C3, Nanshan iPark, No.1001 Xueyuan Avenue, Nanshan District, Shenzhen, Guangdong Province, China
Technical support: support@makeblock.com
www.makeblock.com
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Product Introduction

The mBot Talkative Pet Pack is a 3-in-1 add-on pack for mBot. By using the audio player, micro servo and other mechanical parts in the pack, three cases can be created based on mBot, including “Robot Dog,” “Rover” and “Robot Penguin,” that can sing and talk, making three times the fun.

Robot Dog
With a "mouth" that can sing and talk and a naughty "tail," mBot becomes a smart pet—a robot dog that can run, bark, sing, jump, wag its tail to amuse you, and interact with you. It is so cute!

Rover
Ultrasonic sensor is used for repeated detection in the 10 o’clock, 12 o’clock and 2 o’clock positions. If an object is detected ahead, the rover will report it in a cute voice, and emit a red light while heading to the object. When the distance to the object is less than 28cm, the rover will alert you about the obstacle and turn to avoid it.

Robot Penguin
By changing the case, mBot easily turns into an adorable robot penguin that can tell stories, jokes, sing and dance, and even shake hands with you.

Parts List

<table>
<thead>
<tr>
<th>Item Description</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Audio Player (SD card included)</td>
<td>1×</td>
</tr>
<tr>
<td>9g Micro Servo</td>
<td>1×</td>
</tr>
<tr>
<td>RJ25 Adapter</td>
<td>1×</td>
</tr>
<tr>
<td>RJ25 Cable-20cm</td>
<td>2×</td>
</tr>
<tr>
<td>Bracket 120° 3*3</td>
<td>1×</td>
</tr>
<tr>
<td>Beam 076</td>
<td>1×</td>
</tr>
<tr>
<td>Cuttable Linkage 3 Hole</td>
<td>2×</td>
</tr>
<tr>
<td>Cuttable Linkage 4 Hole</td>
<td>3×</td>
</tr>
<tr>
<td>Cuttable Linkage</td>
<td>1×</td>
</tr>
<tr>
<td>18650 Battery Holder</td>
<td>1×</td>
</tr>
<tr>
<td>Plastic Spacer 4<em>7</em>3</td>
<td>15×</td>
</tr>
<tr>
<td>Plastic Spacer 4<em>7</em>10</td>
<td>6×</td>
</tr>
<tr>
<td>M4 Nut</td>
<td>14×</td>
</tr>
<tr>
<td>M4 Lock Nut</td>
<td>6×</td>
</tr>
<tr>
<td>M4*8mm Screw</td>
<td>10×</td>
</tr>
<tr>
<td>M4*16mm Screw</td>
<td>4×</td>
</tr>
<tr>
<td>M4*22mm Screw</td>
<td>4×</td>
</tr>
<tr>
<td>M4*30mm Screw</td>
<td>4×</td>
</tr>
<tr>
<td>Wrench</td>
<td>1×</td>
</tr>
</tbody>
</table>

Installation of the Servo

1. Servo Debugging
In order to turn the servo accurately to the desired angle, the servo must be debugged in advance, using mBlock as follows:

   # Refer to the figure below to connect the debugging circuit.

   ![Diagram of servo debugging circuit]

   - Connect the servo to RJ25 adapter SLOT 1
   - Connect RJ25 adapter to mCore part 3

Note:
The add-on pack cannot be used without a Makeblock mBot Li-polymer battery or a 18650 Li-polymer battery, which needs to be purchased separately.
Launch mBlock, and program as shown in the figure below. Run the program and the servo will automatically rotate to 90°.

Keep the servo at 90°, and install the servo arm according to the following figure (note the angle between the servo arm and the servo) to complete the debugging.

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2、Servo Installation

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Tips:
If it is difficult to install parts onto the servo arm, screw the self-tapping screws into corresponding holes and then remove them, enlarging the mounting holes and facilitating installation of the parts.
Refer to the figure below for wiring.
Good job!
You’re almost there! Please download the preset program for the add-on pack from the following link:
www.makeblock.com/steam-kits/mbot/add-on-packs
Upload the program into your robot, then play with it!
Refer to the figure below for wiring.

Connect the audio player module to mCore port 4

Connect the ultrasonic sensor to mCore port 3

Connect the line-follower sensor to mCore port 2

Connect the RJ25 adapter to mCore port 1

Connect the servo to RJ25 adapter SLOT 1
Good job!

You’re almost there! Please download the preset program for the add-on pack from the following link:
www.makeblock.com/steam-kits/mbot/add-on-packs

Upload the program into your robot, then play with it!
Refer to the figure below for wiring.

- Connect the audio player module to mCore part 4
- Connect the ultrasonic sensor to mCore part 3
- Connect the line-follower sensor to mCore part 3

Good job!
You’re almost there! Please download the preset program for the add-on pack from the following link:
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Upload the program into your robot, then play with it!
More Add-on Packs

Makeblock provides abundant add-on packs, such as Six-Legged Robot add-on pack, Interactive Light & Sound add-on pack, Servo Pack add-on pack etc. Come and create more cool possibilities!