



Assembly and Instruction Manual

FOLLOW ME

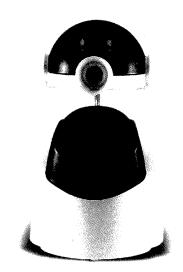
1 Product Introduction:

This interesting Sound Detecting Robot Kit has 4 built-in microphones that detect the sound source and in turn the robot will turn and move accordingly. Clap and the robot will turn in that direction and move towards the sound. Clap again from a different position and the robot will turn and follow if clapping is continued.



Power source required:

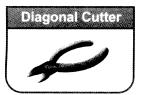
4 x "AAA" 1.5V batteries (not included)



2) το

Tools You May Need:



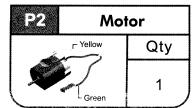






Mechanical Parts List:

P1 Mo	Motor	
┌ Orange	Qty	
Blue	1	



P3 Pinion Gear 10T	
	Qty
	2

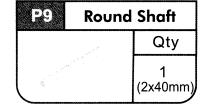


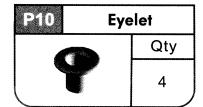
P5 Gear 36T/14T	
	Qty
	2 (Green)

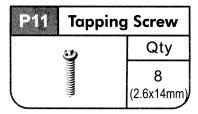
P6 Gear 36T/14T	
	Qty
	2 (Red)

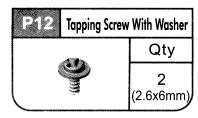
Round Shaft With Gear 36T/0T	
	Qty
A	2 (White)

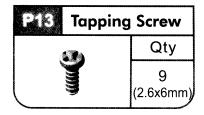
PS	Pos	st
		Qty
		2

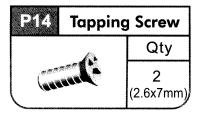






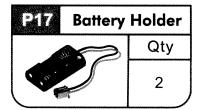




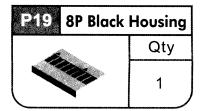


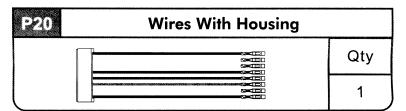
P15 W	Wheel	
	Qty	
	2	

P16 T	Tire	
	Qty	
\bigcup	2	



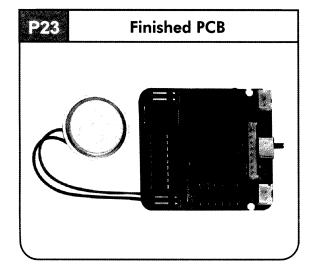
P18 Wire Saddle	
	Qty
	1

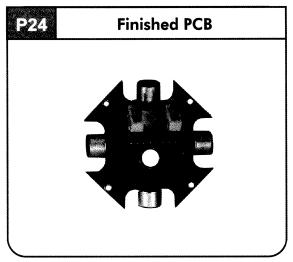




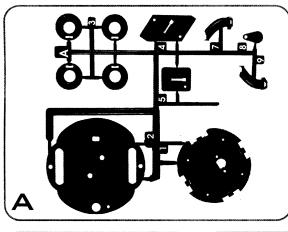
P21	Sponge	
	Qty	
	$\geq \begin{bmatrix} 1 \end{bmatrix}$	

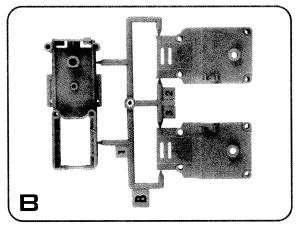
P22 Steel Ball	
ATTO	Qty
	1

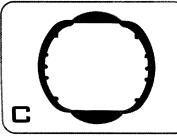




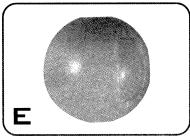




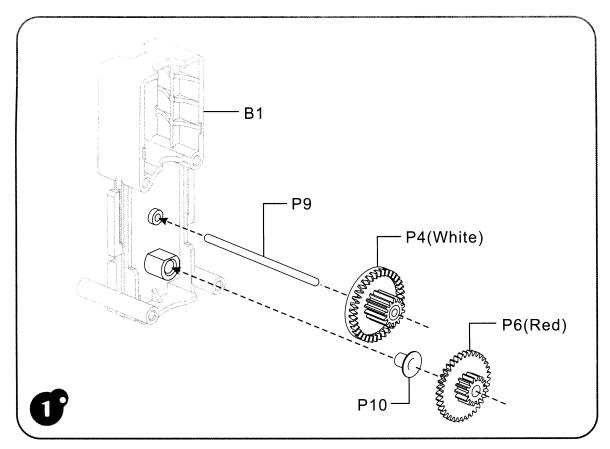


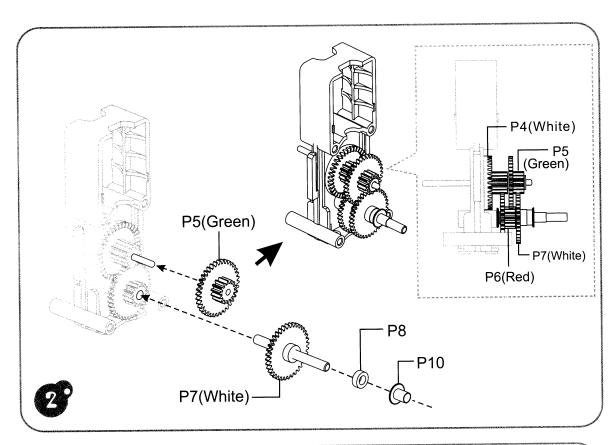


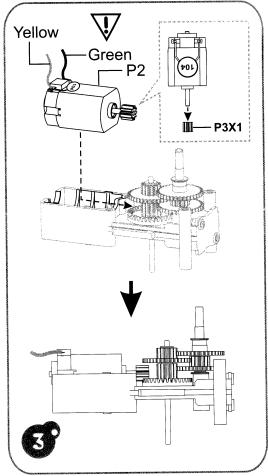


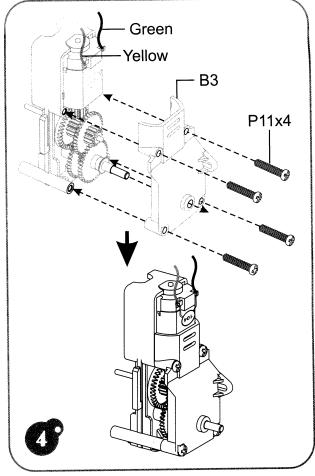


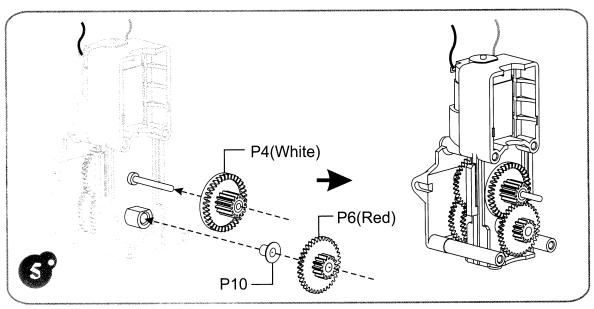
S Mechanical Assembly:

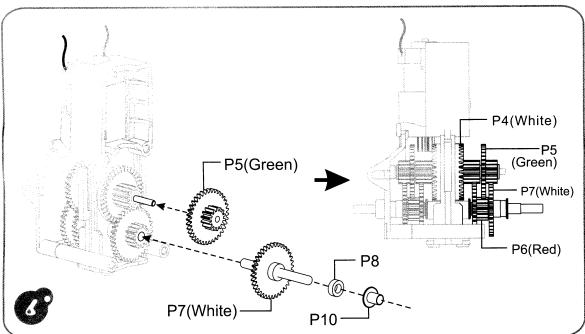


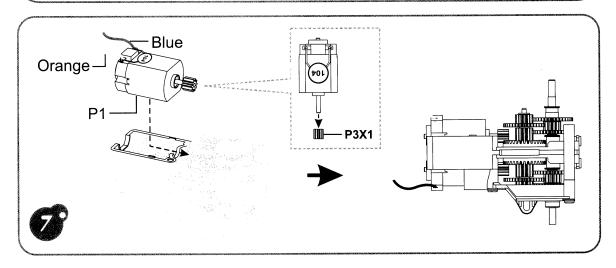


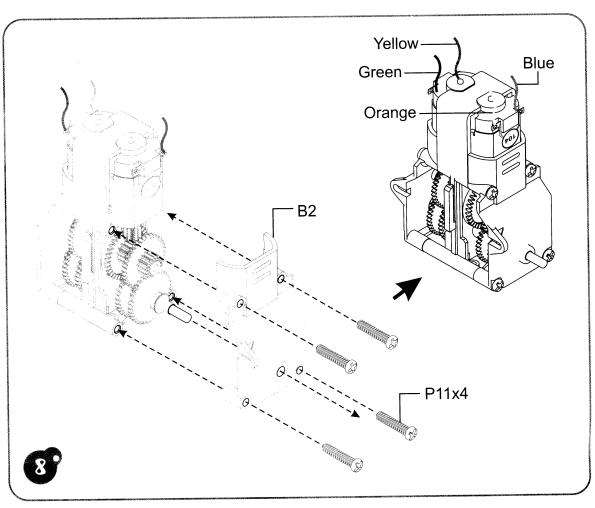


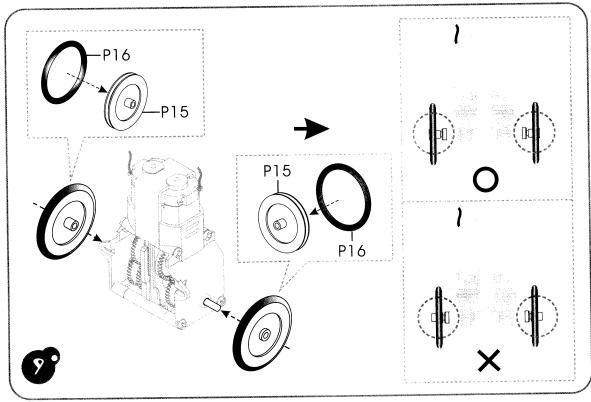


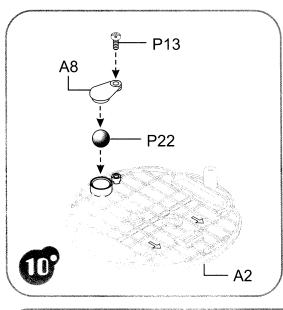


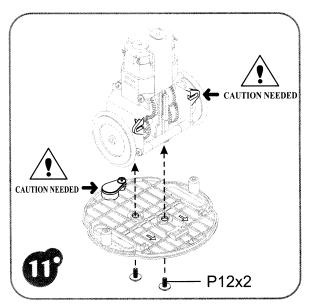


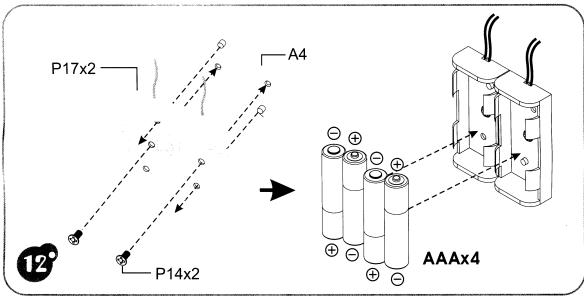


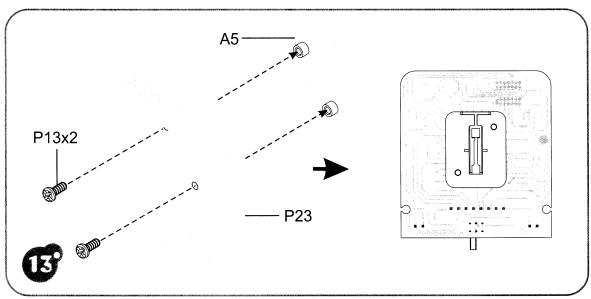


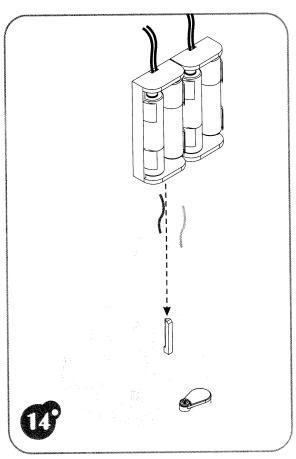


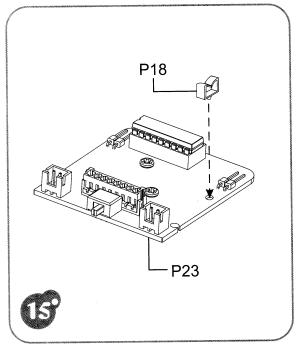


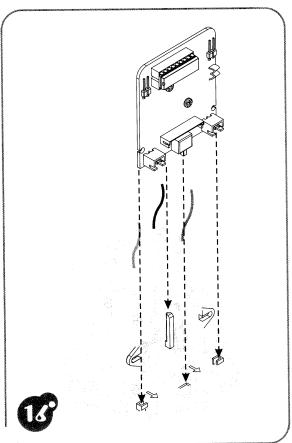


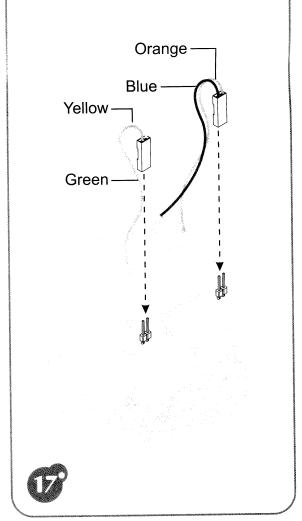


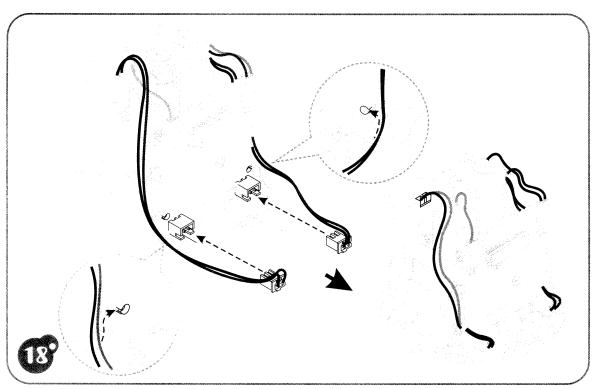


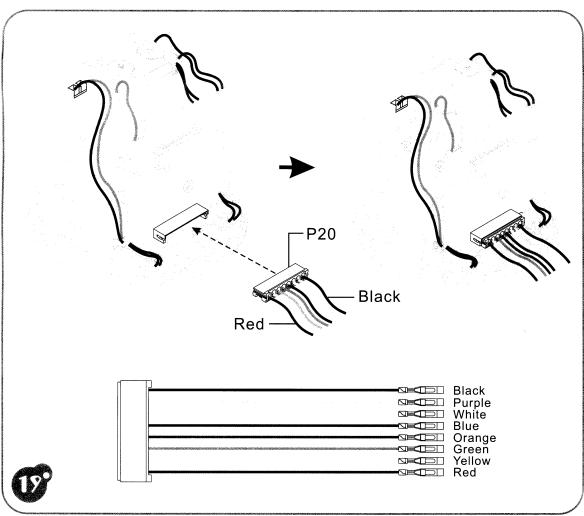


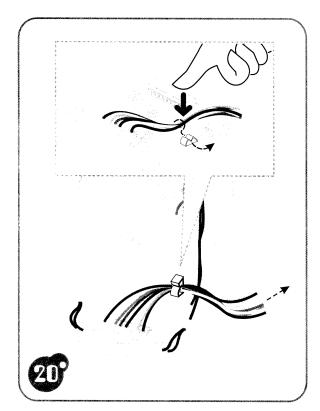


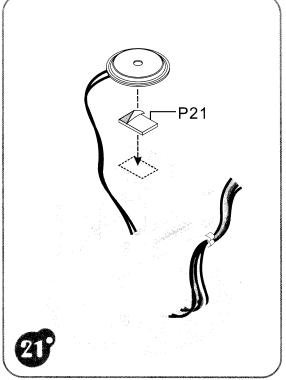


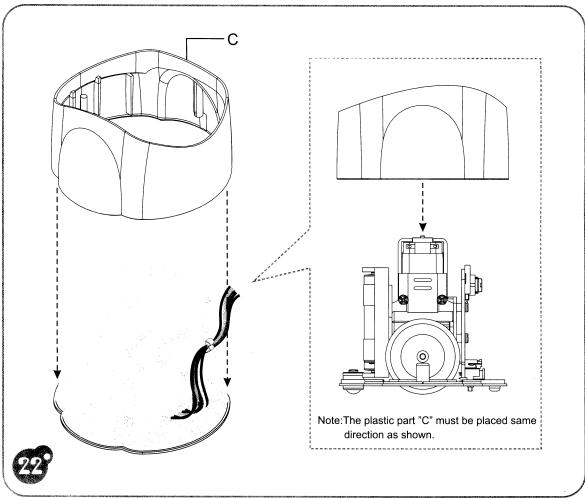


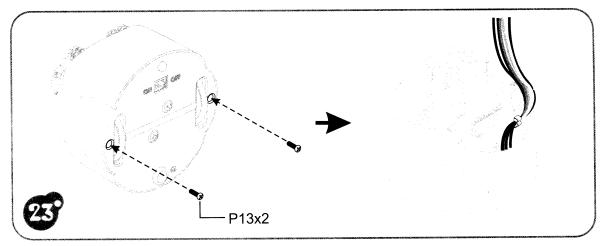


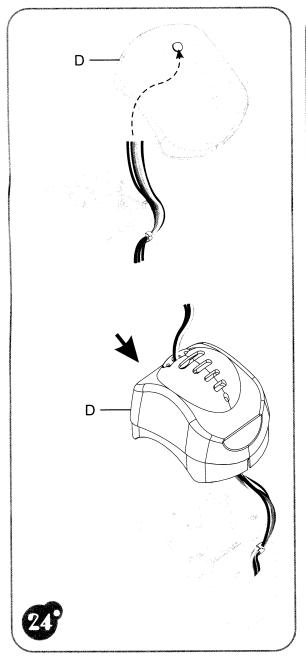


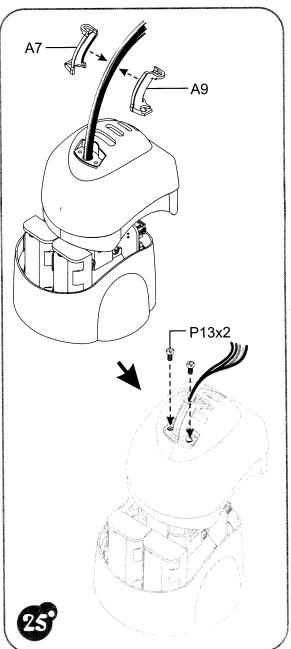


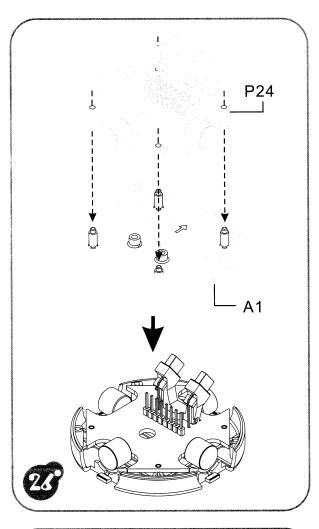


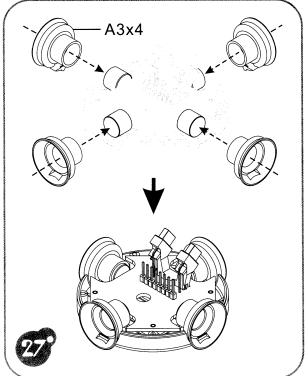


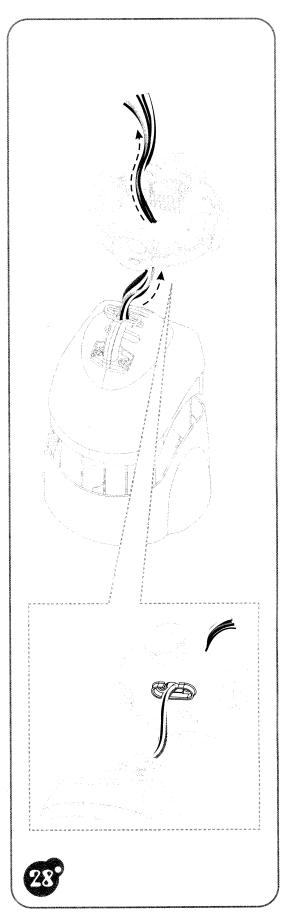


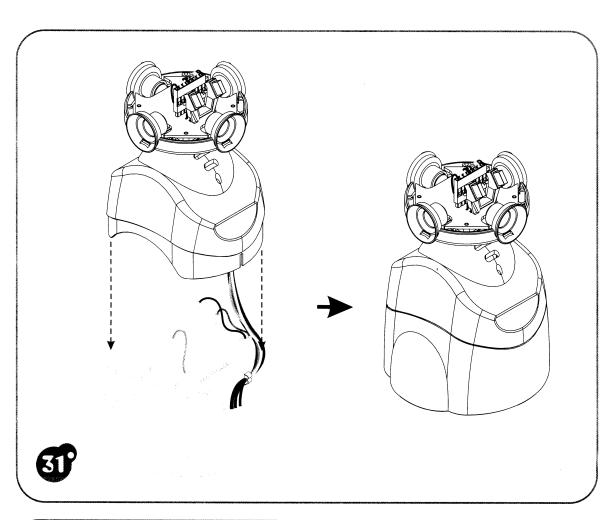


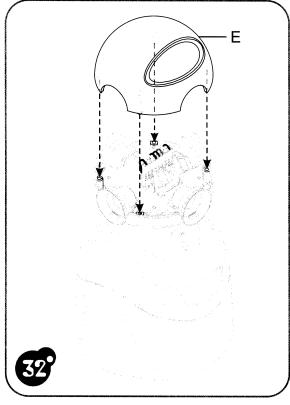


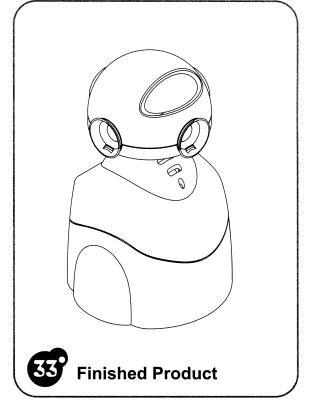


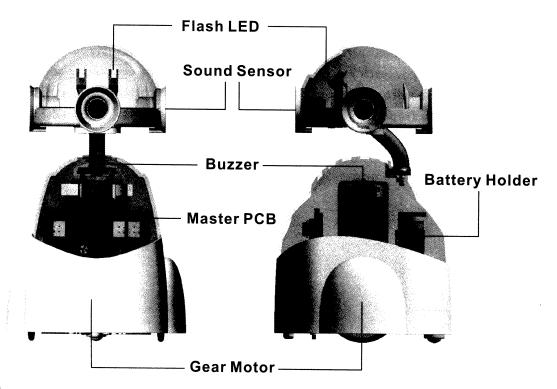














How It Works:

Turn the switch to 'ON', Robot's eyes will start flashing, play 'Do, Re, Mi...' and turn right and left. By clapping around the robot, it will detect which position the sound is coming from and turn its way towards it.

Robot's eyes will flash and sound "beep" if there is no further sound within 10 seconds.

If the Robot does not receive a signal within a minute, it will play its own routine (turn left first and come back, then turn right and come back).

If the Robot does not receive a signal within one and half minutes, it will sound two 'beeps', the eyes will become dark and then go into its sleeping mode. To awake the Robot clap continuously until its eyes light-up slowly returning the robot to its normal switch-on mode.

Note: Depending on the surrounding environment, the robot will only respond to clapping over a certain distance, eg: if the clapping sound echo's across a room or the robot is positioned over its effective distance, then the robot will not respond. The effective distance is within 1 meter.



Trouble Shooting:

- 1. If the Robot does not work check the following:
 - a) The 2 pc 'BAT' white connectors are making correct contact
 - b) Observing battery polarity (+ve and -ve)
 - c) The power switch is in the ON position.
 - d) Make sure the wire colours on the 8 pin connectors are in their position. (As shown on the 2PCBs)

- 2. If the eyes (LED's) flash but the Robot does not respond correctly to clapping:
 - a) Check if the 2 connectors "R-motor" and "L-motor" are correctly connected.
 - b) Make sure the wire colours are the same as what is shown on the PCB.
 - c) Make sure the head PCB is correctly mounted ie: the eyes (green LED's) are towards the front.
 - d) Make sure the wire colours for the 8 pin connector are correctly positioned. (As shown on the 2 PCBs)

8 Circuit Diagram:

