

iBOTZ Soundtracker Kit

Model MR-1001 (Sound Sensor)



The Soundtracker will react to sound impulses and objects in its way. It will reverse away from a sound or obstruction, then move forward. Kit contains detailed instructions and educational background information on each component used and why. The kit will teach the fundamentals of sensor technology and show you how it all goes together.

Movement: Three (3) wheels driven by a DC motor.

Control: Sound sensor including condenser microphone.

Dimensions: 3 3/4" (H) x 5 1/2" (W) x 4 15/16" (L)

No soldering required.

Requires two (2) "AA" batteries (part # 590001).

Line Tracking Mouse Kit

Model 21-880

How Magical! A smart Robot Mouse tracks a black line using a photo interrupter for its eyes.
How Funny! Create a twisting and turning road layout yourself with black tape on a white background. See how it tracks the black line to find the target. **Soldering required.**

Features

- Sound activated.
- Two sets of gear motors (unassembled).
- Uses three photo interrupters to detect a black line.
- Programmed IC.

Requires four (4) "AA" batteries (part # 590001).



iBOTZ Antoid Kit

Model MR-1002 (Infrared Sensor)



The Antoid will react to obstacles in its way by means of its electronic "eye". To build this educational robot requires only basic hand tools. Kit contains detailed instructions and educational background information on each component used and why. The kit will teach the fundamentals of sensor technology and show you how it all goes together.



Movement: Six (6) legs driven by two (2) DC motors.

Control: Infrared sensor.

Dimensions: 6 1/8" (H) x 7 1/16" (W) x 5 29/32" (L)

Requires one (1) 9V (part # 590009) and two (2) "AA" batteries (part # 590001).

No soldering required.

Sound Reversing Car Kit

Model 21-881

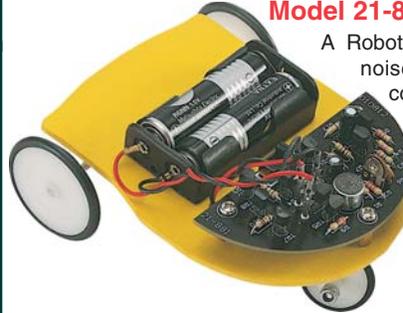
A Robot Car with a sensor to detect noise (like a clap) or physical contact for its reaction. It moves forward when it detects noise and reverses when it touches obstacles.

Soldering required.

Features

- Uses a microphone as a sound sensor.

Requires two (2) "AA" batteries (part # 590001).



Turning Frog Kit

Model 21-882

This is an interesting robot kit. When it detects sounds, it will move and repeat the following steps sequentially: Start (move forward), Stop, Left Turn, Stop, Right Turn, Stop.

Soldering required.

Features

- Two sets of gear motors (unassembled).

Requires one (1) 9V (part # 590009) and two (2) "AA" batteries (part # 590001).



iBOTZ Hydrazoid Kit

Model MR-1004 (Sound Sensor)



Hydrazoid is a cool alien creature that is fun to build. Hydrazoid moves in a spellbinding way in response to sound. To build this educational robot requires only basic hand tools. Kit contains detailed instructions and educational background information on each component used and why. The kit will teach the fundamentals of sensor technology and show you how it all goes together.

No soldering required.

Movement: Four legs driven by a DC motor.

Control: Sound sensor including condenser microphone.

Dimensions: 2 3/4" (H) x 1 3/4" (W) x 2 5/32" (L)

Requires two (2) "AA" batteries (part # 590001).

Hexapod Monster Kit

Model 21-883

The Hexapod Monster is a robot that uses an infrared emitting diode for its eyes, and moves by its six legs. It turns left when it detects obstacles, and keeps moving forward if there is no shade in front of the sensor. **Soldering required.**

Features

- Uses an infrared emitting diode as its sensor.
- Two sets of gear motors (unassembled).

Requires one (1) 9V (part # 590009) and two (2) "AA" batteries (part # 590001).



iBOTZ TriBotz Kit

Model MR-1005 (Infrared, Sound & Touch Sensors)



TriBotz is three robots in one package. It uses sensors to avoid objects, follow a line and respond to sound. The TriBotz will react to sound impulses and objects in its way. It will reverse away from a sound or obstruction, then move forward. Make a path with a black felt tip marker or black tape and watch how infrared sensors allow the TriBotz to make corrections.

No soldering required.

Movement: Two (2) wheels driven by two (2) DC motors.

Control: Sound sensor including condenser microphone, infrared light sources, and light detectors.

Dimensions: 3 15/16" (H) x 5 7/8" (W) x 5 1/2" (L)

Requires two (2) "AA" batteries (part # 590001).



2-in-1 Gearbox (unassembled) Model 21-130

Gear Set 1:

Gear Ratio	Gear	Teeth	I.D.
1:60	Pinion Gear	10T	1.9mm
	Face Gear	36T/14T	2.05mm
	Double Spur Gear	36T/14T	3.05mm
	Double Spur Gear	36T/14T	2.05mm
	Spur Gear	36T/0T	2.9mm
Reduction RPM	41.6		

Gear Set 2:

Gear Ratio	Gear	Teeth	I.D.
1:288	Pinion Gear	8T	1.9mm
	Face Gear	36T/10T	2.05mm
	Double Spur Gear	40T/10T	3.05mm
	Double Spur Gear	40T/10T	2.05mm
	Spur Gear	40T/0T	2.9mm
Reduction RPM	41.6		

We provide the motor, two sets of gears, metal shafts, gearbox, and other accessories in this kit. Use a different gear setting and you will have a different speed (see the table for details).

