miniBog

GETTING STARTED GUIDE



ABOUT MINIBOT

The miniBot is a versatile robotics kit designed to provide an educational and entertaining experience for students. This user guide will walk you through the assembly process and provide information on its various features and functionalities.

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FEATURES OF MINIBOT



Meet Components of MiniBot



- Aluminium Base plate X1
- Dc Motor X4
- M3*25mm Bolts X8
- 65 mm wheel X4
- Battery X1
- Allen Bolts M5*6mm X20
- IR Sensor mount X1
- IR Sensors X2
- Ultrasonic Sensor and Mount X1
- Button and Mount X1
- Allen Tool (M3 and M5) X1

- M3*10mm X8
- Screwdriver X1
- Aluminium Middle Plate X1
- Hex Spacer X4
- MiniBot Controller Board X1
- M3 Nut X12
- M3 Spacers X4
- Aluminium Top Plate X1
- Charger X1
- Programming Cable X1
- IR Remote & receiver X1

*Extra nuts and bolts are provided.

STEP BY STEP PROCEDURE

Take a dc motor and secure it with the screws.







Take a wheel and connect to the shaft of the motor keeping in mind the pattern of the shaft. Attach all the wheels in the same way.



Insert the IR sensor and secure it with the screws.

* Skip this step if already connected.



Take the IR mount fitted with LED. Take IR sensor and join them with the IR Mount with the bolts using a screwdriver. Keep in mind the direction of the IR sensors. Do it as shown.



Screw the IR mount to the Aluminium Base plate.



M5*6mm Allen Bolts



Attach the Battery in the middle of the plate.



Attach the Button Mount.



Similarly, attach the button mount on the other side of the Aluminium Base plate.

Fix the spacers in the Aluminium middle plate.





Mount 4 Hex Spacers on the Aluminium middle plate. Secure them up from the lower side of the Plate using Allen Bolts.



Mount the Middle part on the lower assembly. Motor 3 Motor 4 Ultrasonic IR LED sensor Switch Motor 1 M5*6mm Allen Motor 2 **Bolts** Pass all the Connectors of the components attached on the Base plate including the battery port as shown. Place the Aluminium Middle Plate on top and fix it using Allen Bolts.

Pinouts of miniBot Controller Board



miniBot Controller Guide













miniBot assembly is completed.



IR Remote Controls





Battery box



Minibot comes with a battery box that is designed to prevent damage while you learn from your mistakes. The rechargeable battery also comes with a circuit protection to prevent both over charging & over discharging.

Features of battery Box





Activate the miniBot by flipping the switch 'ON'.

CHARGING TIME

When the battery is discharged, it will automatically cut off. If this happens, don't panic, it is time to charge your miniBot.

*For downloading and checking miniBot Controller app, refer to the miniBot mobile app guide.





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