



Quick Reference Guide

SCAN QR code for Assembly instruction



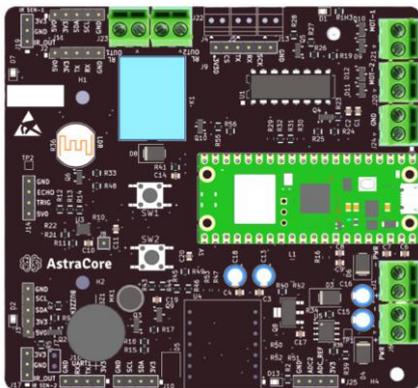
This quick reference guide helps users assemble and program Adept-Bot quickly and confidently. Use this guide along with the connection diagrams and images provided.



IR sensor



Sonar sensor



Adeptbot controller: Astracore



Jumper wire

1. Quick Assembly Steps

- Step 1: Fix both DC motors to the chassis using screws.
- Step 2: Attach wheels to the motor shafts.
- Step 3: Fix the 360degree wheel to the chassis.
- Step 4: Fix the bracket & sensors to chassis
- Step 5: Secure the battery holder.
- Step 6: Mount the controller board on the chassis.
- Step 7: Interface the accessories as given in the wiring diagram

➔ Refer to the assembly images in the attached reference document, for more details scan the **QR code** to reach the assembly instructions.

2. Programming – Quick Start

- Step 1: Connect Adept-bot to the computer using USB.
- Step 2: User can use either microblock or thonny application for coding
- Step 3: Select the correct board and COM port.
- Step 4: Load the example program.
- Step 5: Upload and wait for completion.



Motor & Wheels



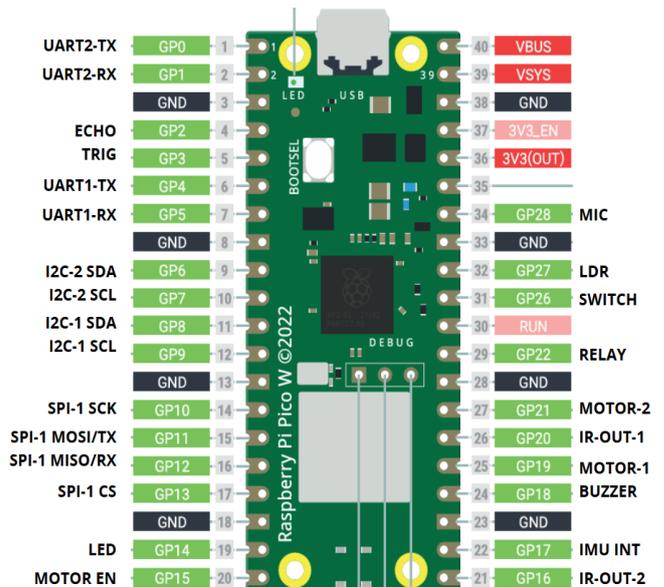
Chassis & screws

Item	Quantity
Adept bot Controller	1
Chassis	1
360 degree Wheel	1
Wheels	2
BO motor & bracket	2
Stand-offs set	1
Screw set	1
AA battery holder	1
Sonar sensor	1
IR sensor	2
Jumper wire set	12
Reference guide	1
USB adaptor	1

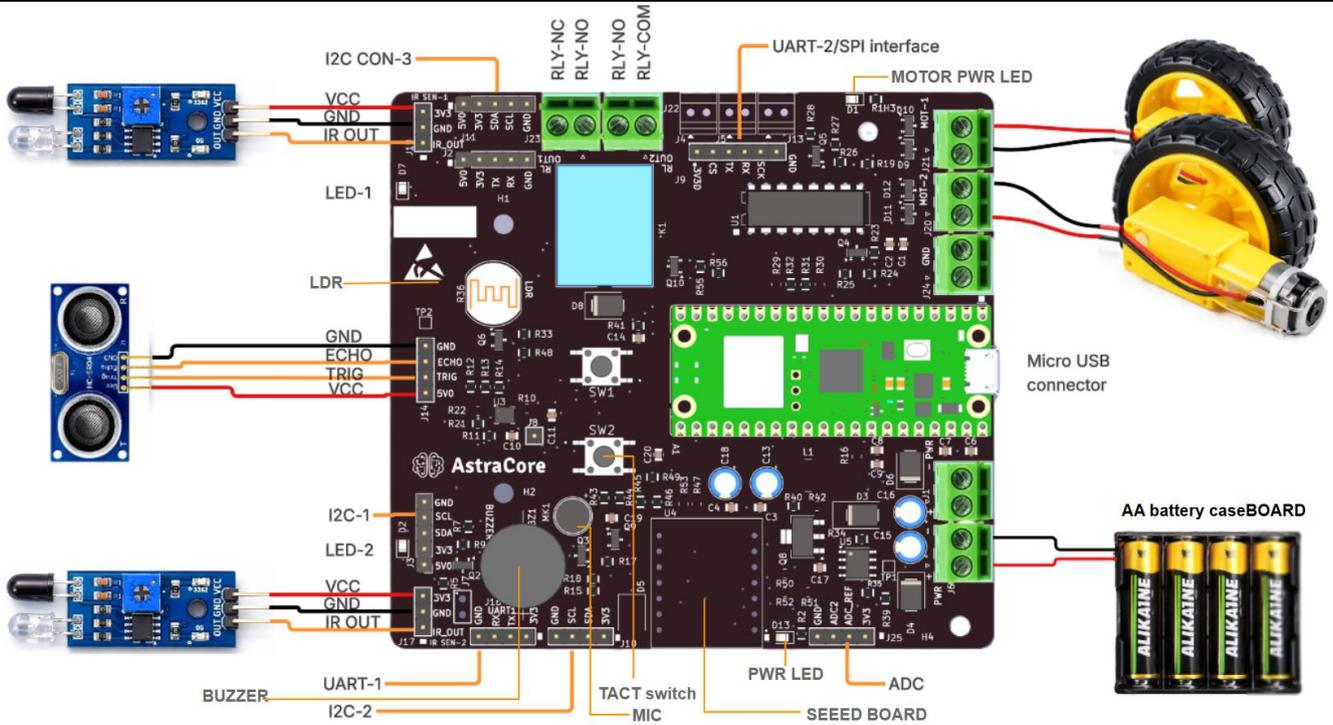
List of items inside the kit



Battery holder



Raspberry pi PICO pin mapping



👉 - Connect supply connection & accessories exactly as shown in the reference images and avoid damaging the controller board.

3. First Test Checklist

- ✓ Verify the mechanical assembly
- ✓ Verify the motor wiring connection
- ✓ Verify the power supply wiring connection
- ✓ Verify the sensor wiring connection
- ✓ Check Power LED is ON
- ✓ Check MOTOR Power LED is ON
- ✓ Adept bot Detects on the coding platform
- ✓ Adept bot able to execute the instructions

4. Common Issues & Fixes

- Bot Not powering Up
 - Check the power supply wiring Polarity
- Motors or sensor not working:
 - Check wiring
 - Check battery voltage
- Program not uploading:
 - Check COM port
 - Reconnect USB cable
- POWER LED is not turned on
 - Check the battery is healthy , if not replace the battery
 - Check the power supply connections

6. Safety Tips

- Do not attempt to connect any other power source other than USB power or from the battery holder
- Switch OFF power while changing connections
- Do not short battery terminals
- Handle electronics gently

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