Warranty Activation Flowchart v1.0

MEKABOY

MICRO CONCEPT TECH

START

RGB LED turn On BLUE

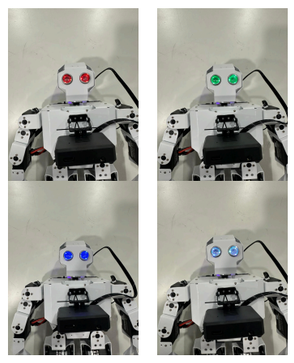
Place hand front of ultrasonic sensor to start 1# RGB Test

If you miss the timing you need to place your hand again infront ultrasonic sensor again

Buzzer sounds

1# RGB Test starts

- Head RGB LED turn on RED 1s, GREEN 1s, BLUE 1s, WHITE 1s and OFF 1s



1# RGB Test SUCCESS?

NG

OK

Buzzer Sounds

RGB LED turn On GREEN

Place hand front of ultrasonic sensor to start 2# Body T Position Test

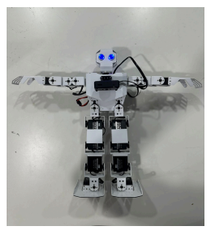
If you miss the timing you need to place your hand again infront ultrasonic sensor again

RGB LED turn On RED

Buzzer Sounds

2# Body T Position Test starts

- Robot body moves into T position (stand up straight and move both hands up sideways)



2# Body T Position Test SUCCESS?

NG

OK

Buzzer Sounds

RGB LED turn On GREEN

Place hand front of ultrasonic sensor to start 3# Head Movement Test

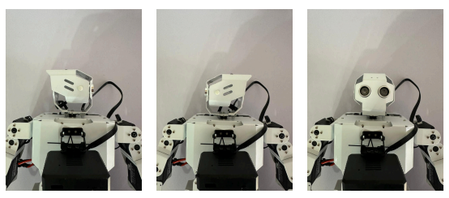
If you miss the timing you need to place your hand again infront ultrasonic sensor again

RGB LED turn On RED

Buzzer Sound

3# Head Movement Test starts

- Head turns to left (180 degree), turns to right (0 degree) and turns to front (90 degree)



3# Head movement test SUCCESS?

NG

OK

Buzzer Sound

RGB LED turn On GREEN

Place hand front of ultrasonic sensor to start 3# Sonar Distance Test

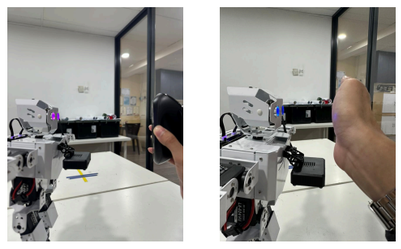
If you miss the timing you need to place your hand again infront ultrasonic sensor again

RGB LED turn On OFF

Buzzer Sounds

3# Sonar Distance Test starts

- Sonar mesures distance from 5cm to 20cm:
  - RGB LED turn On BLUE when detect object in range 8 - 12 cm
  - RGB LED turn On PURPLE when detects object in range 18 - 22 cm



3# Sonar Distance Test SUCCESS?

NG

OK

Buzzer Sounds

RGB LED turn On GREEN

Place hand front of ultrasonic sensor to start 4# Hand Movement Test

If you miss the timing you need to place your hand again infront ultrasonic sensor again

RGB LED turn On RED

Buzzer Sounds

4# Hand Movement Test starts

- Robot body moves into T position (stand up straight and move both hands up sideways)

4# Hand Movement Test SUCCESS?

NG

OK

Buzzer Sounds

RGB LED turn On GREEN

Place hand front of ultrasonic sensor to start 5# Line Following Test

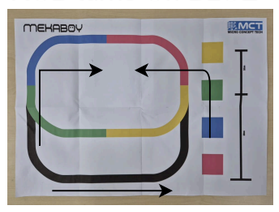
If you miss the timing you need to place your hand again infront ultrasonic sensor

RGB LED turn Off

Buzzer Sounds

5# Line Following Test starts

- Robot autonomously walks:
  - Follows BLACK line 15s while RGB turns Off
  - Follows RED line 20s while RGB turns On RED
  - Follows BLUE line 20s while RGB turns On BLUE



5# Line Following Test SUCCESS?

NG

OK

Buzzer Sounds

RGB LED turn On GREEN

END