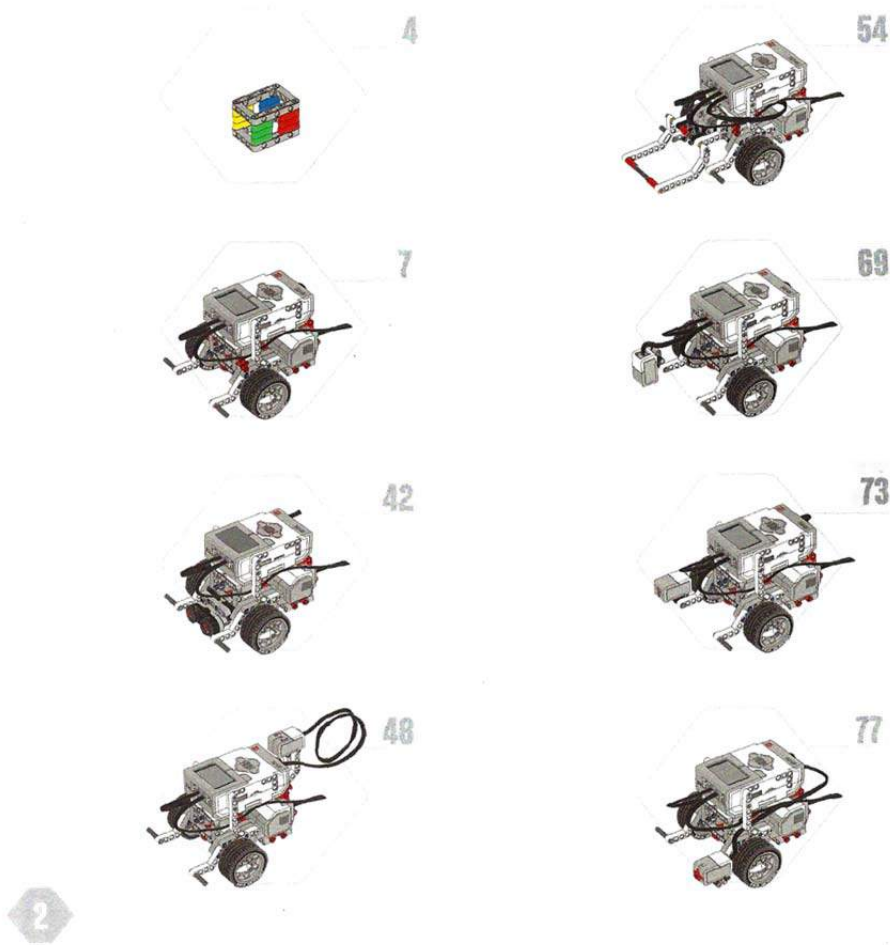


# EV3 Basic Robot Motor and Sensors Programming Instructions



## Table of contents and Build Order for In-Brick Programming Instructions

The programming instructions are only available with the printed booklets that come with the EV3 Core Set 45544. They have been scanned and provided here for your convenience. Check our Coach Resources page for the Build Instructions.



Page 4 – Cuboid

Page 7 – Driving Base (Loop & Eyes/Circle 2 Secs)

Page 42 – Ultrasonic Sensor

Page 48 – Gyro Sensor

Page 54 – Medium Motor

Page 69 – Color Sensor Down (Black Line)

Page 73 – Light Sensor Forward (Color Object)

Page 77 – Touch Sensor

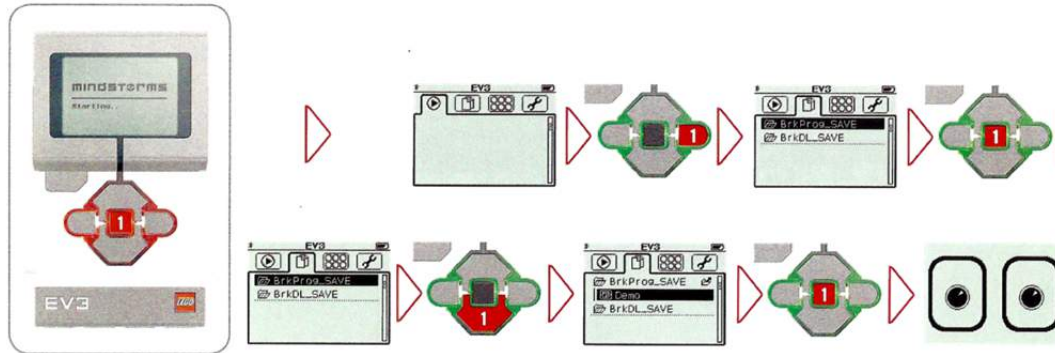
At the end of the Page 7 Build, move on to the Page 39 Loop and Eyes Demo and Page 40 Rotate 2 Seconds Program.

# EV3 Basic Robot Motor and Sensors Programming Instructions

## Page 39 – Driving Base Loop and Eyes Demo



This demo should be accessed in the brick following the button pushes indicated.

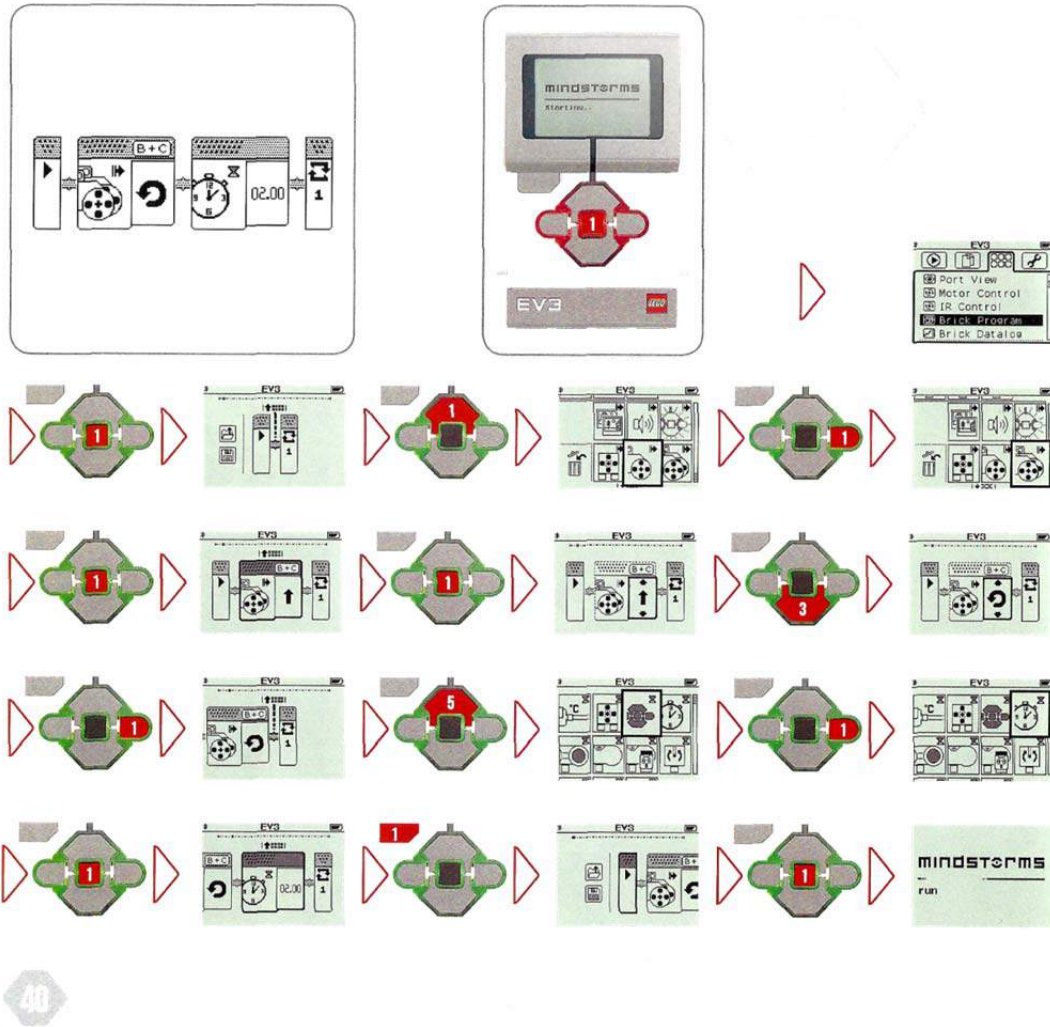


# EV3 Basic Robot Motor and Sensors Programming Instructions



## Page 40 –Driving Base Circle 2 Seconds

The box to the upper left shows the result of the program as displayed in the brick. The details of the button pushes and selection screens are shown below.

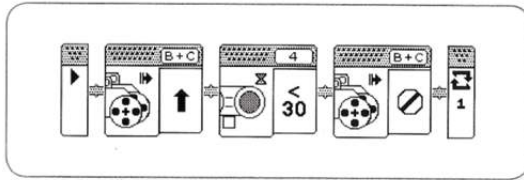


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*NOTE: Following this program, all programs will only show the in brick program and will expect the Team Members to identify and select the correct program elements using the button presses required.*

# EV3 Basic Robot Motor and Sensors Programming Instructions

Page 47 – Ultrasonic Sensor to sense proximity to object

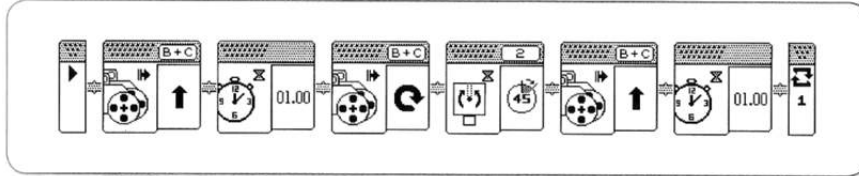


30 cm / 11.8 in.



# EV3 Basic Robot Motor and Sensors Programming Instructions

Page 53 – Gyro Sensor to sense rotation of turn

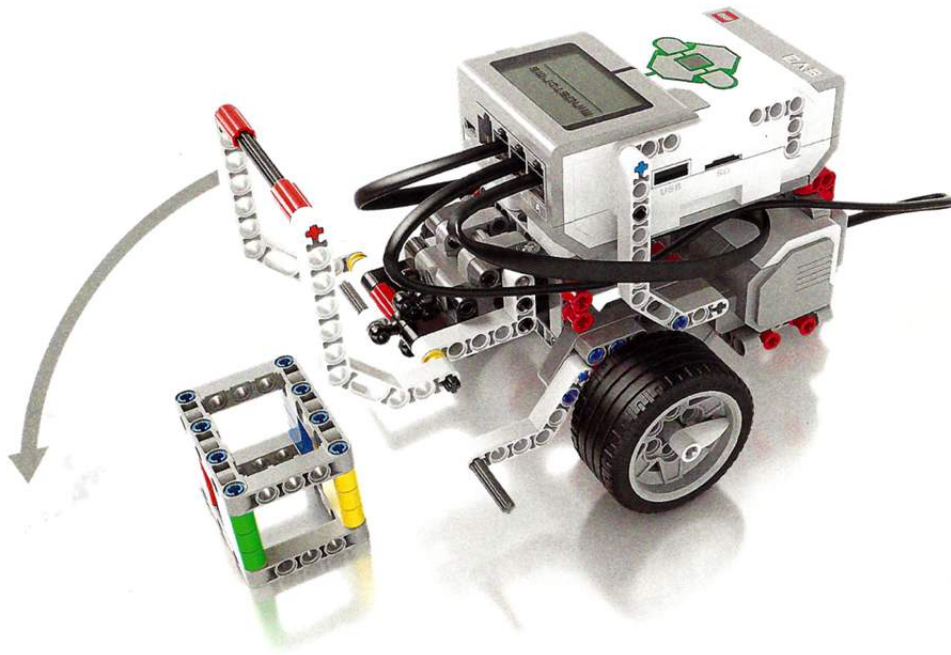
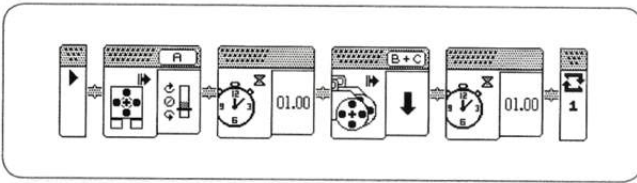


45°



# EV3 Basic Robot Motor and Sensors Programming Instructions

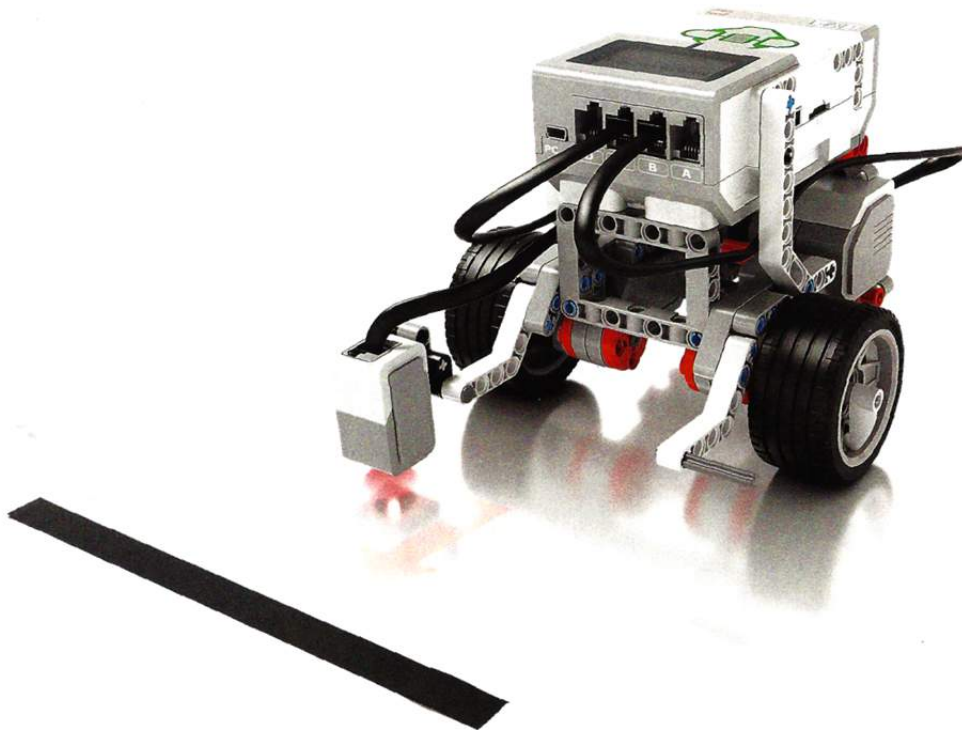
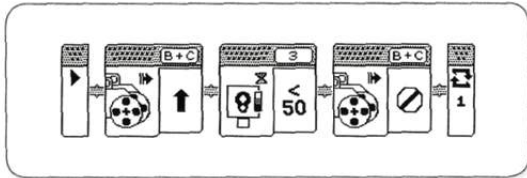
Page 68 – Medium Motor to work in direct line for additional motor functions



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# EV3 Basic Robot Motor and Sensors Programming Instructions

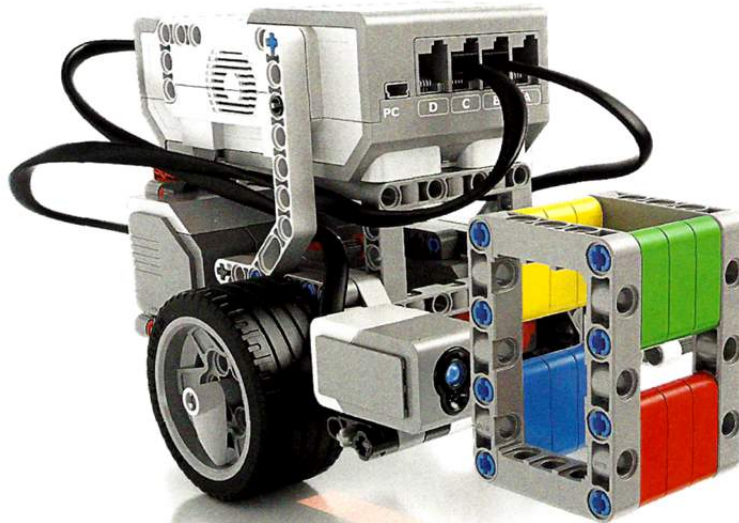
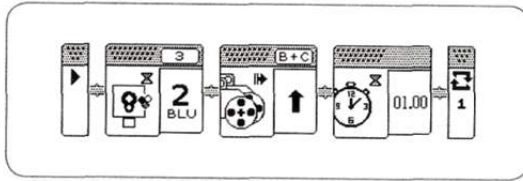
Page 72 – Color Sensor Down to detect and follow lines



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# EV3 Basic Robot Motor and Sensors Programming Instructions

Page 78 – Color Sensor Forward to detect, identify, and interact with colored objects

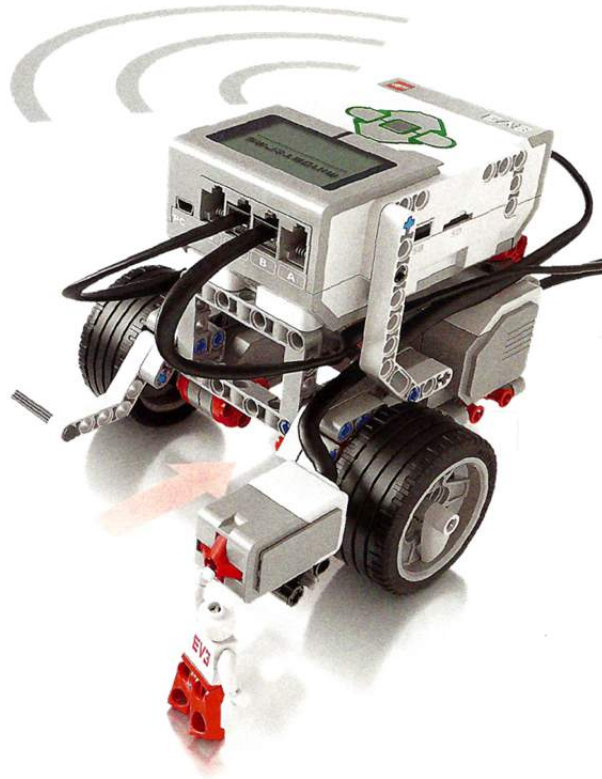
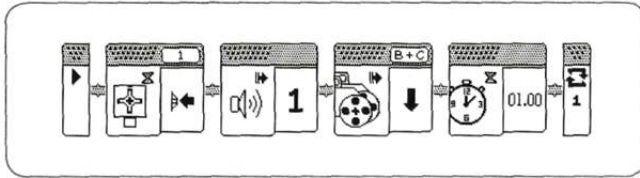


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# EV3 Basic Robot Motor and Sensors Programming Instructions

Page 80 – Touch Sensor to react when the sensor is touched or triggered



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