

A QUICK EASY BUILD THAT CAN HANDLE ALL BASIC SENSORS





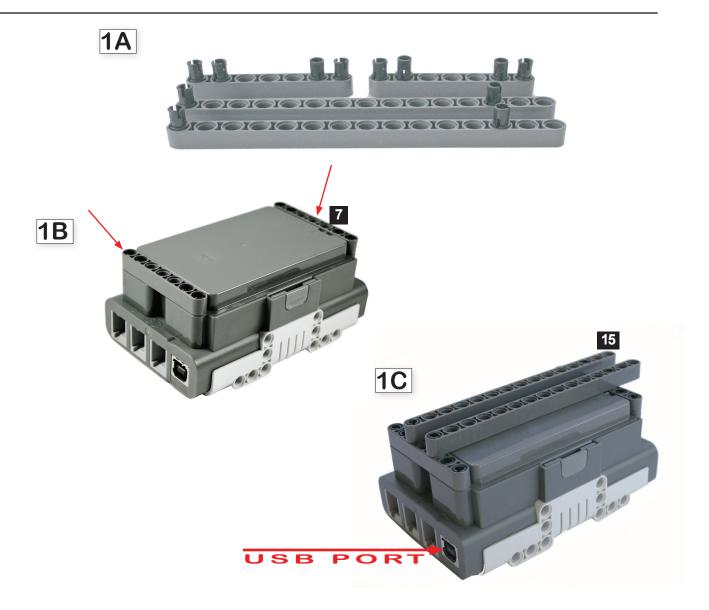
(12) SHORT CONNECTOR PEG

(2) #7 ROUNDED END BEAM

(2) #15 ROUNDED END BEAM

(1) NXT BRICK

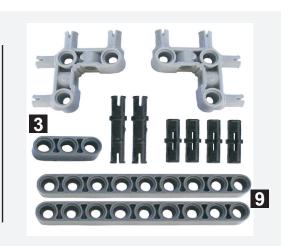


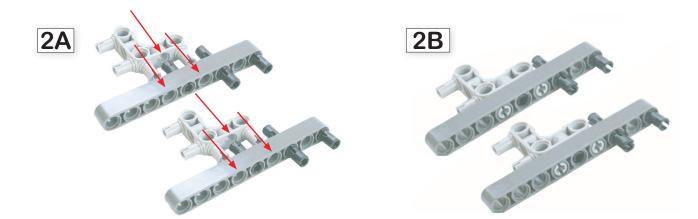


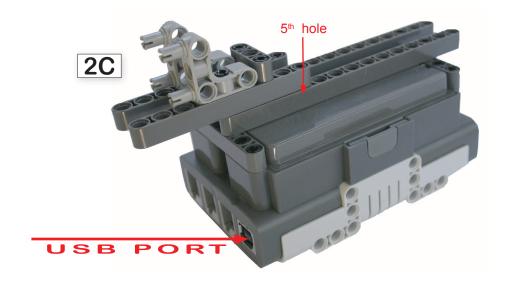




- (2) #9 ROUNDED END BEAM
- (1) #3 ROUNDED END BEAM
- (4) SHORT CONNECTOR PEG
- (2) LONG CONNECTOR PEG
  - (2) HASSENPIN





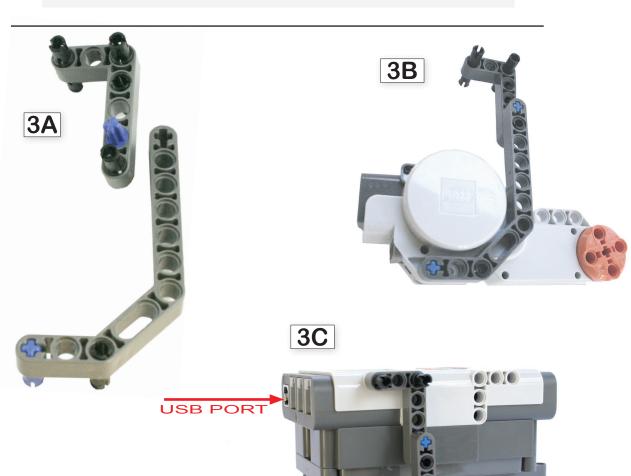






- (1) 3X5 ANGULAR BEAM
- (1) 3X7 ANGULAR BEAM
- (2) LONG CONNECTOR PEG
- (3) SHORT CONNECTOR PEG
- (2) BLUE AXLE/CONNECTOR PEGS
  - (1) SERVO MOTOR









(2) #2 RED AXLE

(1) #3 GRAY AXLE

(2) CONNECTOR PEG WITH BUSHING

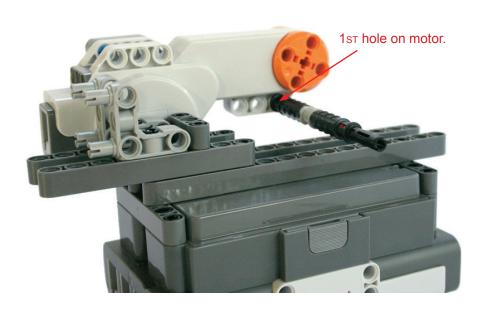
(2) AXLE EXTENDER

(1) GRAY BUSHING





4B







(1) 3X5 ANGULAR BEAM

(1) 3X7 ANGULAR BEAM

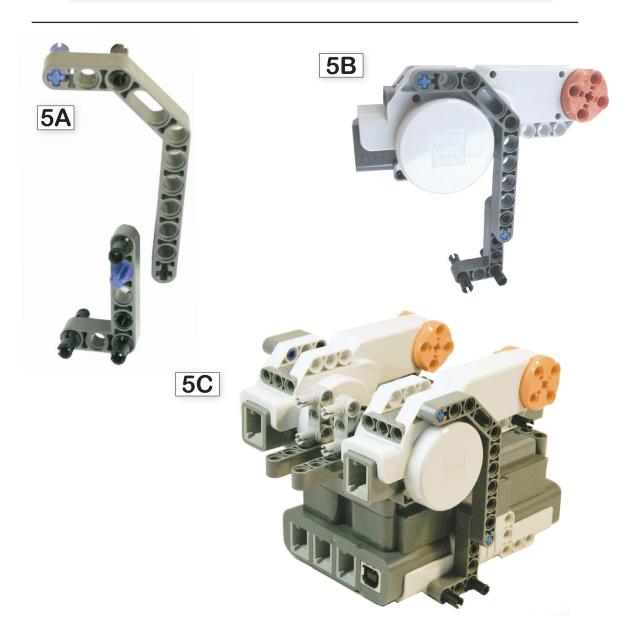
(1) SERVO MOTOR

(2) LONG CONNECTOR PEG

(2) BLUE AXLE/CONNECTOR PEGS

(3) SHORT CONNECTOR PEG







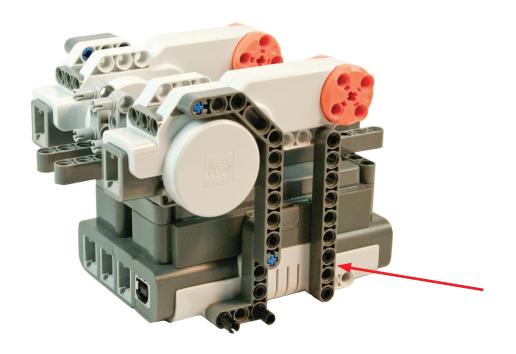


- (2) #9 ROUNDED END BEAM
- (4) SHORT CONNECTOR PEG









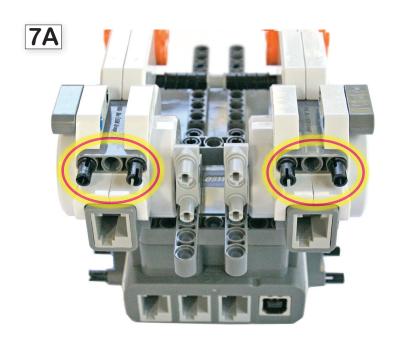


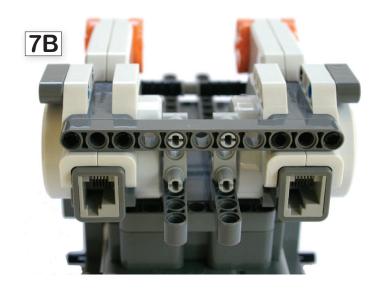


(4) SHORT CONNECTOR PEG

(1) #11 ROUNDED END BEAM











(2) #3 GRAY AXLE

(1) #6 BLACK AXLE

(1) AXLE EXTENDER

(2) YELLOW HALF BUSHING

(1) LIGHT GRAY CROSS BLOCK

(2) 24X4 GRAY HUB



**8A** 





8C









(2) GRAY BUSHING

(2) #3 ROUNDED END BEAM

(2) LONG CONNECTOR PEG





9B



9C







(2) LARGE HUB AND TIRE

(2) YELLOW HALF BUSHING

(4) GRAY BUSHING

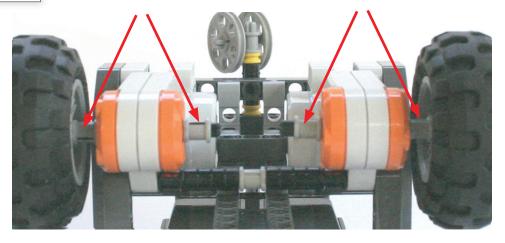
(2) #8 AXLE



10A



10B







# **WIRING MOTORS**

Use 2 medium (35cm / 14") cables - connect motors to **B** and **C** ports.

# 11A









## ATTACHING THE SENSORS

TOUCH SENSOR (PORT 1)

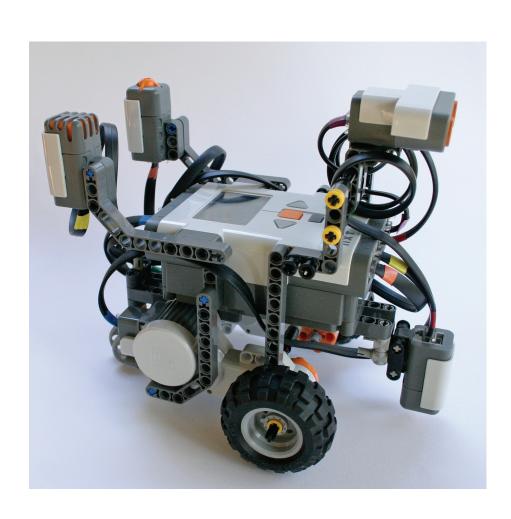
SOUND SENSOR (PORT 2)

LIGHT SENSOR (PORT 3)

ULTRASONIC SENSOR (PORT 4)



\*LISTED ABOVE ARE THE BASIC SENSORS AND THE DEFAULT PORTS.







### TOUCH AND SOUND SENSOR

## PARTS NEEDED

(2) 3X7 ANGULAR BEAM

(2) SHORT CONNECTOR PEG

(2) BLUE AXLE/CONNECTOR PEGS

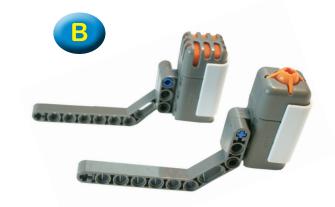
TOUCH SENSOR

SOUND SENSOR













Attach the Angular beams to the circled Long Connector Pegs.







# ULTRASONIC SENSOR PARTS NEEDED

(1) ULTRASONIC SENSOR

(2) LONG CONNECTOR PEG

(2) # 12 AXLE

(2) 2X4 ANGULAR BEAM

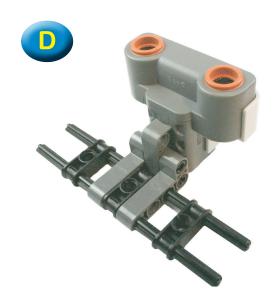
(3) BLACK DOUBLE CROSS BLOCK















## ULTRASONIC SENSOR

### PARTS NEEDED

(4) YELLOW HALF BUSHING

(2) 3X5 ANGULAR BEAM

(4) CONNECTOR PEG WITH BUSHING















## LIGHT SENSOR PARTS NEEDED

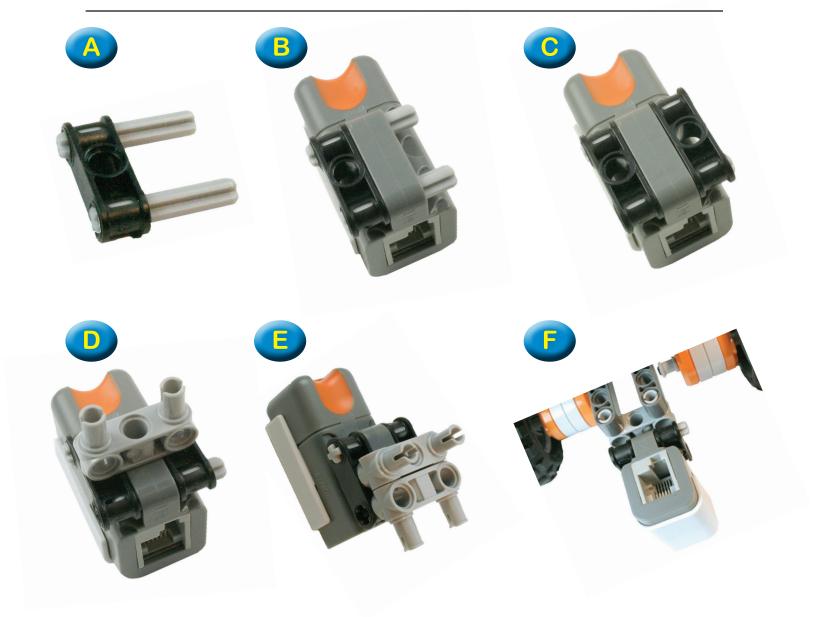
(2) LIGHT GRAY DOUBLE CONNECTOR PEG

(1) LIGHT SENSOR

(2) DOUBLE CROSS BLOCK

(2) # 3 AXLE









## ATTACHING THE SENSORS

# LABELED SENSORS ARE CONNECTED TO DEFAULT PORTS

