

Robot Kit Version:	V3	
Update Date:	8/7/2020	
Part	Description	Qty
Sensors and CPU		
Arduino Uno R3	Arduino UNO R3 computer board with DC-DC converter	1
USB Programming Cable	USB Programming Cable	1
Arduino Sensor Shield V5.0	sensor shield to connect sensors, motors, LEDs	1
Micro Servo (blue colors) with screws	Micro Servo (blue colors) with screws	1
Sonar Sensor holder and screw	Sonar Sensor holder - spacer-glugue and screws	1
Sonar Sensor HC-SR04	Sonar Sensor HC-SR04	1
360 Rotation Wheels Servo Motors	360 Rotation Wheels Servo Motors	2
Fundduino Line Following Sensor	Fundduino Line Following 3 IR Sensors	1
6 AA Battery Holder + on-off switch+cables	6 AA Battery Holder + on-off switch+cables	1
10K potentiometer	10K potentiometer	1
IR Remote Control with RX/TX+TX LED+cables	IR Remote Control with RX/TX+TX LED+cables	1
LEDs	LEDs - colors vary	4
CDS light analog sensor	CDS light analog sensor	1
IR adjustable Distance Sensors	IR adjustable Distance Sensors	2
Tactile momentary ON switches	Tactile momentary ON switches	2
1 kΩ Resistors	1 kΩ Resistors	2
10 kΩ Resistors	10 kΩ Resistors	4
220 Ω Resistors	220 Ω Resistors	4
Piezospeaker	Piezospeaker	1
Feelers (momentary ON, long switches)	Feelers (momentary ON, long switches)	2
Bluetooth HC05 or HC06 passcode 1234	Bluetooth HC05 or HC06 passcode 1234	1
DC-DC step down converter to run servos	DC-DC step down converter to run servos	1
Moisture Sensor	Moisture Sensor	1
Hardware & Brackets		
Upper Deck Chassis	lasercut upper deck chassis	1
Lower Deck Chassis	lasercutlower deck chassis	1
Wheels Servo Holder	lasercut servo holder for wheels	2
Servo metal or plastic L Brackets	servo metal or white plastics L brackets	4
Wheels+screws	Wheels+screws	2
4-40 X1/2" pan head screws for servos, front acorn, line IR	4-40 X1/2" pan head screws for servos, front acorn, line IR	13
4-40x1" flathead or panhead Screw for line following sensor	4-40x1" flathead or panhead Screw for line following sensor	2
4-40 X3/8" screws for L brackets and spacers	4-40 X3/8" screws for L brackets and spacers	8
4-40 X1/4" pan head screws	4-40 X1/4" screws for upper deck, Arduino	10
Nylon Spacers 4-40	Nylon Spacers 4-40 to mount Arduino	3
4-40x3/4 Screws	4-40x3/4" Screws feelers/switches	4
4-40x3/4" flathead Screw for back of battery pack	4-40x3/4" flathead Screw for back of battery pack	1
4-40 Metal Hex Nut	4-40 Metal Hex Nut	23
4-40 plastic nuts for IR sensors	4-40 plastic nuts for IR sensors	2
4-40 Acorn Nuts	4-40 Acorn Nuts	2
4-40x1.5 Hex Aluminum Spacers	4-40x1.5" Hex Aluminum or plastic Spacers	4
Dupont Wires Male/Male	Dupont Wires M/M	8
Dupont Wires Female/Female	Dupont Wires F/F	15
Dupont Wires Male/Female	Dupont Wires M/F	8
Breadboard - 400 tie points	Breadboard - 400 tie points	1
4-40x1" Screw for breadboard and line following sensor	4-40x1" Screw for breadboard and line following sensor	3
Screwdrivers mini flat and/or star	Screwdriver mini flat and/or star	2
Sumo lasercut ramp	Sumo lasercut ramp	1
Plastic L braket for sumo ramp	Plastic L brackets for sumo ramp	2
Robot Container ship box , sticker, flyer	Robot Container ship box , sticker, flyer	1