






# 2022 Kickoff Kit Checklist

## BLACK TOTE

<input checked="" type="checkbox"/>	Item Description	Supplier	Part Number	Qty	Where to get more?	Photo
Red Bag						
	<b>Multi Tool</b>	FedEx	MULTITOOL-2022	2	No Specific Source	
	<b>Wire</b> 06 AWG, Black, 1½ ft. length	Belden	06AWGB-1.5	1	No Specific Source	
	<b>Wire</b> 06 AWG, Red, 1½ ft. length	Belden	06AWGR-1.5	1	No Specific Source	
	<b>Wire</b> 12 AWG, Red & Black, 15 ft. length each	Belden	12AWGB-15 12AWGR-15	1	No Specific Source	
	<b>Wire</b> 18 AWG, Red & Black, 10 ft. length each	Belden	18AWGB-10 18AWGR-10	1	No Specific Source	

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Yellow Bag						
	<b>Hex Hub Half</b> ½ in.	Armabot	A0066	2	<a href="https://www.armabot.com/">https://www.armabot.com/</a>	
	<b>Sushi Roller Assortment Kit</b> 1x Sushi Roller, 500 Hex Bore, 60A(am-4541_black) 1x Sushi Roller, 500 Hex Bore, 50A(am-4541_blue) 1x Sushi Roller, 500 Hex Bore, 40A(am-4541_orange) 1x Sushi Roller, 500 Hex Bore, 35A(am-4541_green) 1x Spacer, 500 Hex Molded 1in(am-3948-1000) 2x Spacer, 500 Hex Molded 1/2 in(am-3948-500) 2x Collar Clamp, 500Hex HD(am-1526)	AndyMark	am-4632	1	<a href="http://www.AndyMark.com">www.AndyMark.com</a>	
	<b>Power cable, for radio</b>	Epec	RadioPowerCable	1	No Specific Source	
	<b>Shaft Collar</b> ⅜ in.	Ruland Manufacturing Co., Inc.	CL-6-A	1	<a href="http://www.ruland.com/first">www.ruland.com/first</a>	
	<b>Circuit Breaker</b> 20A	Snap Action, Inc.	VB3-A20-F57	2	<a href="http://www.snapaction.net">www.snapaction.net</a> or <a href="http://www.andymark.com">www.andymark.com</a>	







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	<b>Circuit Breaker</b> 30A	Snap Action, Inc.	VB3-A30-F57	2	<a href="http://www.snapaction.net">www.snapaction.net</a> or <a href="http://www.andymark.com">www.andymark.com</a>	
	<b>Circuit Breaker</b> 40A	Snap Action, Inc.	MX5-A-40	6	<a href="http://www.snapaction.net">www.snapaction.net</a> or <a href="http://www.andymark.com">www.andymark.com</a>	
	<b>Vulcan Springs Packet</b> 1 Series H (PN SH6G25), 1 Series L (PN SL6G25), voucher info page	Vulcan Spring & Mfg. Co.	SH6G25 SL6G25	1	<a href="http://info.vulcanspring.com/fIRST-robotics-competition">http://info.vulcanspring.com/fIRST-robotics-competition</a>	
<b>Blue Bag</b>						
	<b>Assorted Terminal Bag</b> ~5 x 10-12 AWG Disconnect F (PN 80610531362) ~20 x 10-12 AWG Quick Disconnect F (80610531214) ~20 x 14-16 AWG Quick Disconnect F (80601391719) ~20 x 10-12 AWG Quick Disconnect M (80610057806) ~20 x 14-16 AWG Quick Disconnect M (80610056071) ~10 x 10-12 AWG Ring Terminal (PN 80610048540) ~5 x 14-16 AWG Ring Terminal (PN 80610040737) ~5 x 18-22 AWG Ring Terminal (PN 80610035307)	3M	TERMINAL_BAG	1	No Specific Source	
	<b>Grip Material</b> 18 in. length	3M	70006701497 or 300LSE	1	No Specific Source	







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	<b>WPILib Tool Suite Reference Magnet</b>	WPI	N/A	1	Not Available	
	<b>Bumpon</b> SJ5003, Sheet of 56	3M	70070079671	1	No Specific Source	
	<b>Bumpon</b> SJ5009, Sheet of 24	3M	70070079754	1	No Specific Source	
	<b>Heat Shrink</b> Thin-Wall Tubing, 1/8 in., 4 ft. length, FP301	3M	80611600893	1	No Specific Source	
	<b>Heat Shrink</b> Thin-Wall Tubing, 1/4 in., 4 ft. length, FP301	3M	80611600968	1	No Specific Source	
	<b>Heat Shrink</b> Thin-Wall Tubing, 1/2 in., 4 ft. length, FP301	3M	80611601206	1	No Specific Source	







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<input checked="" type="checkbox"/>	Item Description	Supplier	Part Number	Qty	Where to get more?	Photo
	<b>Instant Adhesive</b> Scotch-Weld	3M	CA8	1	No Specific Source	
	<b>Plastic &amp; Rubber Instant Adhesive</b> Scotch-Weld	3M	PR100	1	No Specific Source	
<b>Clear Bag</b>						
	<b>Info packet</b> SB50 connector	Anderson Power Products	N/A	1	Not Available	
	<b>Autodesk Fusion 360 sticker sheet</b>	Autodesk	N/A	1	Not Available	
	<b>Autodesk Synthesis sticker sheet</b>	Autodesk	N/A	1	Not Available	
	<b>Ruler</b>	Digi-Key Electronics	DIGIKEYRULER	1	Not Available	

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<input checked="" type="checkbox"/>	Item Description	Supplier	Part Number	Qty	Where to get more?	Photo
	Mastercam Sticker	MasterCam	N/A	1	Not Available	
	PTC Sticker Sheet	PTC	N/A	1	Not Available	
	Stickers: DigiKey	Digi-Key Electronics	N/A	1	Not Available	
	FIRST FORWARD presented by Qualcomm, Decal for Robot	FIRST	2022-FF-STICKER	1	Not Available	
	FLUKE Sticker	Fluke Industrial	FLUKE-STICKER	1	Not Available	
	High Performance Ultrasonic Rangefinder (sensor stapled to flyer)	MaxBotix Inc.	MB1043-000	1	<a href="http://www.Maxbotix.com/firstrobotics">www.Maxbotix.com/firstrobotics</a>	

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	NI Kickoff Kit Packet	NI	2022NIPacket	1	<a href="#">Available Online</a>	
	Siemens Sticker	Siemens	2022 SIEMENS STICKERS	1	Not Available	
	Sticker: F1 Intake Instructions	Armabot	2022-F1STICK	1	<a href="https://www.armabot.com/">https://www.armabot.com/</a>	
	Sticker: RS7 Encoder Instructions	Armabot	2022-RS7STICK	1	<a href="https://www.armabot.com/">https://www.armabot.com/</a>	
	Bumper Material Sample Red or Blue	Robopromo.com	N/A	1	Not Available	
	2022 Kit of Parts Virtual Kit Catalog brought to you by Xilinx	D3	N/A	1	<a href="#">Available Online</a>	

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	<b>Igus Bag</b>					
	<b>e-chain® cable carrier</b> 1 meter	igus Inc.	05-06-018-0	1	<a href="http://www.igus.com">www.igus.com</a>	
	<b>chainflex cable</b> 20 AWG, 4 wire	igus Inc.	CF9-05-04	1	<a href="http://www.igus.com">www.igus.com</a>	
	<b>drylin® N linear guide system</b> With 24 in. rail	igus Inc.	NS-01-27-P	1	<a href="http://www.igus.com">www.igus.com</a>	
	<b>drylin® N linear guide system</b> carriage	igus Inc.	NW-02-27	2	<a href="http://www.igus.com">www.igus.com</a>	
	<b>iglide® M250 plain bearing</b>	igus Inc.	GTI-0814-01	2	<a href="http://www.igus.com">www.igus.com</a>	
	<b>iglide® clip bearing</b>	igus Inc.	MCI-08-02	4	<a href="http://www.igus.com">www.igus.com</a>	



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<input checked="" type="checkbox"/>	Item Description	Supplier	Part Number	Qty	Where to get more?	Photo
<b>REV Robotics Kit</b>						
	<b>2-Wire Jumper Cable</b> 36 in., F/F	REV Robotics	REV-11-1134	1	<a href="http://www.revrobotics.com">www.revrobotics.com</a>	
	<b>CAN Wire</b> 22 AWG, Green/Yellow Twist, 36 in.	REV Robotics	REV-11-1149	1	<a href="http://www.revrobotics.com">www.revrobotics.com</a>	
	<b>PWM Y Cable</b> 22 AWG, 12 in., F/MM	REV Robotics	REV-11-1131	2	<a href="http://www.revrobotics.com">www.revrobotics.com</a>	
	<b>PWM Cable</b> 22 AWG, 36 in., F/M	REV Robotics	REV-11-1130	4	<a href="http://www.revrobotics.com">www.revrobotics.com</a>	
	<b>POE Injector Cable</b>	REV Robotics	REV-11-1210	1	<a href="http://www.revrobotics.com">www.revrobotics.com</a>	
	<b>Color Sensor</b>	REV Robotics	REV-31-1557	1	<a href="http://www.revrobotics.com">www.revrobotics.com</a>	

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	<b>Color Sensor Cable</b> 4-pin JST to FRC I2C, 100cm	REV Robotics	REV-11-1729	1	<a href="http://www.revrobotics.com">www.revrobotics.com</a>	
	<b>2in Compliant Wheel</b>	REV Robotics	REV-21-2030	2	<a href="http://www.revrobotics.com">www.revrobotics.com</a>	
	<b>Spark Max Motor Controller</b>	REV Robotics	REV-11-2158	2	<a href="http://www.revrobotics.com">www.revrobotics.com</a>	
	<b>Spark Max Mounting Bracket</b>	REV Robotics	REV-21-2151	2	<a href="http://www.revrobotics.com">www.revrobotics.com</a>	
<b>Loose</b>						
	<b>Dual Lock Reclosable Fastener</b> 12 ft.	3M	SJ3540 or 70070521052	1	No Specific Source	
	<b>VHB Tape</b>	3M	70006149820	1	No Specific Source	



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	CIM Motor	AndyMark	am-0255	2	<a href="http://www.andymark.com">www.andymark.com</a>	
	Alliance Apron, Red	Staples	49600-XRD	1	Not Available	
	Alliance Apron, Blue	Staples	49600-XRYL	1	Not Available	
	Blue Ball	Flaghouse	99ZX03177BLUE	1	<a href="http://www.andymark.com">www.andymark.com</a>	
	Red Ball	Flaghouse	99ZX03177RED	1	<a href="http://www.andymark.com">www.andymark.com</a>	
	Foam Gripper	John Deere	M156751	1	Not Available	

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	<b>Robot Signal Light</b> (i.e. Panel Signal Device)	Rockwell Automation	855PB-B12ME522	1	No Specific Source	
	<b>Ethernet cable</b> colors & lengths vary	The Siemon Company	Varies	1	No Specific Source	
	<b>Molex Kit</b>	Molex	367690833	1	<a href="https://experience.molex.com/solutions/first-robotics/">https://experience.molex.com/solutions/first-robotics/</a>	
	<b>Parcipation pins</b>	Sports Awards	2022-PINPACKET	40	Not Available	
	<b>FIRST Alumni Yard signs</b>	FIRST	N/A	5	No Specific Source	
	<b>Safety Glasses</b>	Siemens	0000-884-0307B	1	No Specific Source	