

2023 Kickoff Kit Checklist

BLACK TOTE

☒	Item Description	Supplier	Part Number	Qty	Where to get more?	Photo
Red Bag						
☐	Scotch Linerless Rubber Splicing Tape	3M	130C	1	No Specific Source	
☐	Temflex Black Vinyl Electrical Tape	3M	165BK4A	1	No Specific Source	
☐	Temflex Red Vinyl Electrical Tape	3M	165RD4A	1	No Specific Source	
☐	Assorted Terminal Kit 10ea Quick Disconnect Female 10-12 AWG (80610531214) 10ea Quick Disconnect Male 10-12 AWG (80610057806) 10ea Quick Disconnect Female 14-16 AWG (80601391719) 10ea Quick Disconnect Male 14-16 AWG (80610056071) 10ea Quick Disconnect Female 18-22 AWG (2-520184-2) 10ea Quick Disconnect Male 18-22 AWG (2-520103-2) 10ea Parallel Connector 10-12 AWG (34072) 10ea Parallel Connector 14-16 AWG (34071) 5ea Parallel Connector 18-22 AWG (34067) 5ea Ring Terminal 18-22 AWG (34150)	3M & TE Connect	TERMINAL_BAG	1	No Specific Source	
☐	Wire 06 AWG, Black, 1½ ft. length	Belden	06AWGB-1.5	1	No Specific Source	

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☐	Wire 06 AWG, Red, 1½ ft. length	Belden	06AWGR-1.5	1	No Specific Source	
☐	Wire 12 AWG, Red & Black, 15 ft. length each	Belden	12AWGB-15 12AWGR-15	1	No Specific Source	
☐	Wire 18 AWG, Red & Black, 10 ft. length each	Belden	18AWGB-10 18AWGR-10	1	No Specific Source	
Blue Bag						
☐	Vulcan Springs Packet 1 Series H (PN SH6G25) 1 Series L (PN SL6G25) voucher info page	Vulcan Spring & Mfg. Co.	SH6G25 SL6G25	1	http://info.vulcanspring.com/fIRST-robotics-competition	
☐	Grip Material 18 in. length	3M	70006701497 or 300LSE	1	No Specific Source	
☐	Bumpon SJ5003, Sheet of 56	3M	70070079671	1	No Specific Source	

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☐	Bumpon SJ5009, Sheet of 24	3M	70070079754	1	No Specific Source	
☐	Ethernet cable colors & lengths vary	The Siemon Company	Varies	1	No Specific Source	
☐	Main Circuit Breaker 120A	Optifuse	153120	1	www.optifuse.com	
☐	POE Injector Cable	REV Robotics	REV-11-1210	1	www.revrobotics.com	
☐	Wheel Kit 2ea Compliant Wheel, 3in, 1/2in Hex Bore, 35A 2ea Stealth Wheel, 3in, 1/2in Hex Bore, 40A Info Card	AndyMark	am-3945_green & am-4716_orange	1	Andymark.com	
REV Robotics Bag						
☐	2-Wire Jumper Cable 36 in., F/F	REV Robotics	REV-11-1134	1	www.revrobotics.com	

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☐	CAN Wire 22 AWG, Green/Yellow Twist, 36 in.	REV Robotics	REV-11-1149	1	www.revrobotics.com	
☐	PWM Cable 22 AWG, 36 in., F/M	REV Robotics	REV-11-1130	5	www.revrobotics.com	
Igus Bag						
☐	igubal® spherical rod end bearing	igus Inc.	EBRI-08 R	2	www.igus.com	
☐	igubal® spherical flange bearing	igus Inc.	EFOI-08 R	2	www.igus.com	
☐	iglide® plastic sleeve bearing	igus Inc.	JSI-0810-08	2	www.igus.com	 Photo: igus
☐	iglide® plastic flange bearing	igus Inc.	JFI-0810-08	2	www.igus.com	

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☐	iglide® plastic thrust washer	igus Inc.	MTI-08	2	www.igus.com	 Photo: igus
☐	iglide® clip bearing	igus Inc.	MCI-06-01	4	www.igus.com	
☐	drylin® N linear guide system With 24 in. rail & 2 carriages	igus Inc.	NK02-40-2-610	1	www.igus.com	
☐	drylin® N Aluminum Shafting	igus Inc.	AWI-08	2	www.igus.com	 Photo: igus
☐	e-chain® cable carrier 1 meter	igus Inc.	05-3-038-0	1	www.igus.com	
☐	Energy Chain® cable carrier brackets	igus Inc.	050-16-12	2	www.igus.com	

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☐	iglide® Tribo-Tape	igus Inc.	A160T5100S305	1	www.igus.com	
☐	chainflex cable 20 AWG, 5 wire	igus Inc.	CF9-05-05	1	www.igus.com	
Snap Action Pack						
☐	Circuit Breaker 20A	Snap Action, Inc.	VB3-A20-F57	2	www.snapaction.net or www.andymark.com	
☐	Circuit Breaker 30A	Snap Action, Inc.	VB3-A30-F57	2	www.snapaction.net or www.andymark.com	
☐	Circuit Breaker 40A	Snap Action, Inc.	MX5-A-40	6	www.snapaction.net or www.andymark.com	
Loose						
☐	Dual Lock Reclosable Fastener 12 ft.	3M	SJ3540 or 70070521052	1	No Specific Source	

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☐	VHB Tape	3M	70006291440	1	No Specific Source	
☐	High Performance Ultrasonic Rangefinder (sensor stapled to flyer)	MaxBotix Inc.	MB1122-000	1	www.Maxbotix.com/firstrobotics	
☐	CIM Motor	AndyMark	am-0255	2	www.andymark.com	
☐	Robot Signal Light (i.e. Panel Signal Device)	Rockwell Automation	855PB-B12ME522	1	No Specific Source	
☐	Battery Connector SB50-FR (housing) and 5900-BK (contacts)	Anderson Power Products	SB50 or am-0009	1	http://www.andersonpower.com (housing & contacts) http://www.andymark.com (connector assembly)	
☐	Battery Sealed Lead Acid, 12V, 18Ah, Bolt Fastened, Rechargeable	MK Battery	ES17-12	1	www.mkbattery.com	