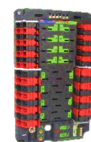


☒	Item Description	Supplier	Part Number	Qty	Where to get more?	Photo
Loose						
	Joystick Extreme 3D Pro	Best Buy	963290-0403	1	No Specific Source	
	Air Volume Tank 32 cu. in., Black Plastic	Clippard Instrument Laboratory	AVT-PP-35	1	www.clippard.com	
	Gamepad F310 Logitech	Connection	940-000110	1	No Specific Source	
	Netbook Lenovo	Connection	2020_Netbook or 80S6	1	No Specific Source	
	USB 2.0 to 10/100 Mbps Ethernet Network Adapter Dongle	Connection	USB2100	1	No Specific Source	
	Pneumatic Control Module	CTR Electronics	14-806777 or CTRE_PCM_1	1	www.ctr-electronics.com	
	Power Distribution Panel	CTR Electronics	14-806880 or CTRE_PDP_1	1	www.ctr-electronics.com	

☒	Item Description	Supplier	Part Number	Qty	Where to get more?	Photo
	Voltage Regulator Module	CTR Electronics	14-868277 or CTRE_VRM_1	1	www.ctr-electronics.com	
	PSoC 5LP Prototyping Kit	Cypress	CY8CKIT-059	1	http://www.cypress.com/forum/first-robotics-competition or www.digikey.com	
	Power (Battery) Charger	HK TENGSHUN POWER SUPPLY CO LIMITED	FY1205000	1	No Specific Source	
	CIM Motor	AndyMark	am-0255	2	www.andymark.com	
	Battery Sealed Lead Acid, 12V, 18Ah, Bolt Fastened, Rechargeable	MK Battery	ES17-12	2	www.mkbattery.com	
	NI roboRIO for FRC	NI	787789-01	1	www.andymark.com	

☒	Item Description	Supplier	Part Number	Qty	Where to get more?	Photo
	Battery Connector SB50-FR (housing) and 5900-BK (contacts)	Anderson Power Products	SB50 or am-0009	3	http://www.andersonpower.com (housing & contacts) http://www.andymark.com (connector assembly)	
	Red Bumper Material	RoboPromo	RP-2016-R	1	www.robopromo.com	
	Blue Bumper Material	RoboPromo	RP-2016-B	1	www.robopromo.com	
	Compressor Model 90C	Viair	00090	1	No Specific Source	
	White Board	Kettering University	whiteboard	1	No Specific Source	
	Electrical Tape "Super 33+," Vinyl, Black, 3/4 in x 66 ft.	3M	34-8723-5605-9	1	No Specific Source	
	Electrical Tape "35 Red," Vinyl, Red, 3/4 in x 66 ft.	3M	34-8723-7084-5	1	No Specific Source	

☒	Item Description	Supplier	Part Number	Qty	Where to get more?	Photo
	Pneumatic Tubing Kit Two 25 ft. tubing	AutomationDirect.com	PU14	1	www.automationdirect.com	
	Main Circuit Breaker 120A	Optifuse	153120	1	www.optifuse.com	
	Robot Radio Dual Band 1.17 Gbps Access Point	Open Mesh Networks	OM5P-AC	1	www.andymark.com	
	Throttle Motor	DENSO/ ASMO	AE235100-0160	2	Not Available	
	NEO Brushless Motor	REV Robotics	REV-21-1650	1	www.revrobotics.com	
	Spark Max Motor Controller	REV Robotics	REV-11-2158	2	www.revrobotics.com	
	Spark Max Mounting Bracket Kit 2x Spark Max Mounting Bracket (REV-21-2151)	REV Robotics	REV-45-2468	1	www.revrobotics.com	

☒	Item Description	Supplier	Part Number	Qty	Where to get more?	Photo
	Scotchlite Reflective Material, Vision Target Tape 2in wide, 8 feet long	3M	75050060492	1	No Specific Source	
	RedLine Motor, 775A	AndyMark	am-3775a	1	www.andymark.com	
REV Robotics Bag						
	2-Wire Jumper Cable 36 in., F/F	REV Robotics	REV-11-1134	1	www.REVrobotics.com	
	CAN Wire 22 AWG, Green/Yellow Twist, 36 in.	REV Robotics	REV-11-1149	1	www.REVrobotics.com	
	PWM Y Cable 22 AWG, 12 in., F/MM	REV Robotics	REV-11-1131	2	www.REVrobotics.com	
	PWM Cable 22 AWG, 36 in., F/M	REV Robotics	REV-11-1130	4	www.REVrobotics.com	

☒	Item Description	Supplier	Part Number	Qty	Where to get more?	Photo
Clear Bag						
	Plug Socket with Cable ½ m length (in FESTO packet)	Festo	NEBV-H1G2-KN- 0.5-N-LE2 or 566654	2	www.festo.us/first	
	Fitting M7 thread, ¼ in. tubing (in FESTO packet)	Festo	QSM-M7-1/4-I-U- M or 183740	3	www.festo.us/first	
	Solenoid Valve Double, 24VDC (in FESTO packet)	Festo	VUVG-LK10-B52- T-M7-1H2L-S or 8042548	1	www.festo.us/first	
	E-Stop Sticker	D3	estopsticker	1	Not available	
	PTFE Thread Seal Tape (aka Teflon Tape), ¼ in. x 520 in.	HPE Automation	PTFE-1-4	1	www.hpeco.com	
	Relief Valve, 1/4in	IMI Norgren	16-004-011	1	https://www.imi-precision.com/us	
	Regulator Mounting Kit	IMI Norgren	18-025-003	1	https://www.imi-precision.com/us	

☒	Item Description	Supplier	Part Number	Qty	Where to get more?	Photo
	Pressure Regulator	IMI Norgren	R07-100-RNEA	1	https://www.imi-precision.com/us	
	Pressure Switch	Nason	SM-2B-115R/443	1	www.nasonptc.com	
	USB 2.0 A to B Cable Shielded - 1.5 meters	CUI inc.	CBL-UA-UB-1	1	www.cuidevices.com	
	Blue Fine pt Marker	Kettering Universty	260003	1	No Specific Source	
	Red Fine pt Marker	Kettering Universty	260007	1	No Specific Source	
	Pen Clip	Kettering Universty	PENCLIP	2	No Specific Source	
	UNIWRAP Cable Ties 4 in., 18 lb, white, bag of 100	BURNDY LLC	CT18075C	1	No Specific Source	

2022 Kickoff Kit Checklist

GRAY TOTE

☒	Item Description	Supplier	Part Number	Qty	Where to get more?	Photo
	UNIWRAP Cable Ties 7.5 in., 50 lb, white, bag of 100	BURNDY LLC	CT50175C	1	No Specific Source	
	CULUG Copper Compression Terminal 6 AWG, bag of 8	BURNDY LLC	YAZV6CTC14FX	1	www.andymark.com	
	Pressure Gauge 1/8 in NPT, 160psi	Colonial Instruments or IMI Norgren	15-102D-1B-160 or 18-013-212 or 102D-158F	2	No Specific Source	
Parker Bag						
	Micro Valve Female Pipe (in Parker "FIRST kit")	Parker Hannifin Fluid System Connectors Division	MV709-2	1	www.parker.com	
	Union Tee (in Parker "FIRST kit")	Parker Hannifin Fluid System Connectors Division	2203P-2	3	www.parker.com	
	Plug 1/8 in. (in Parker "FIRST kit")	Parker Hannifin Fluid System Connectors Division	218P-2	2	www.parker.com	
	Plug 1/4 in. (in Parker "FIRST kit")	Parker Hannifin Fluid System Connectors Division	218P-4	2	www.parker.com	

☒	Item Description	Supplier	Part Number	Qty	Where to get more?	Photo
	Hex Nipple 1/8 in. (in Parker "FIRST kit")	Parker Hannifin Fluid System Connectors Division	216P-2	3	www.parker.com	
	Adapter 1/4 in. to 1/8 in, F/M (in Parker "FIRST kit")	Parker Hannifin Fluid System Connectors Division	229-4-2	1	www.parker.com	
	Brass Bushing 1/8 in. to 1/4 in, F/M (in Parker "FIRST kit")	Parker Hannifin Fluid System Connectors Division	209P-4-2	2	www.parker.com	
	Prestolok Male Connector (in Parker "FIRST kit")	Parker Hannifin Fluid System Connectors Division	W68PLP-4-2	6	www.parker.com	
	Prestolok Union Tee (in Parker "FIRST kit")	Parker Hannifin Fluid System Connectors Division	364PLP-4	4	www.parker.com	
	Prestolok Elbow Connector (in Parker "FIRST kit")	Parker Hannifin Fluid System Connectors Division	W369PLP-4-2	4	www.parker.com	