

☒	Item Description	Supplier	Part Number	Qty	Where to get more?	Photo
Loose						
	Pool Noodle	AndyMark	AM-0328	4	www.andymark.com	
	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	
	Pressure Gauge 1/8 in NPT, 160psi	Colonial Instruments	15-102D-1B-160	2	No Specific Source	
	Gamepad F310 Logitech	Connection	940-000110	1	No Specific Source	
	Netbook Lenovo	Connection	2020_Netbook or 81M8	1	No Specific Source	
	USB 2.0 to 10/100 Mbps Ethernet Network Adapter Dongle	Connection	USB2100	1	No Specific Source	

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	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	
	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	
	Motor Controller, Victor SPX	Innovation First International	217-9191	2	www.vexpro.com	 Photo: VEXpro
	CIM Motor	Innovation First International	217-2000	2	www.vexpro.com	

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	Battery Sealed Lead Acid, 12V, 18Ah, Bolt Fastened, Rechargeable	MK Battery	ES17-12	1	www.mkbattery.com	
	NI roboRIO for FRC	National Instruments	783582-01	1	www.andymark.com	
	USB 2.0 A to B Cable Shielded - 1.5 meters	Parts Express	130-042	1	www.parts-express.com	
	Battery Connector SB50-FR (housing) and 5900-BK (contacts)	Anderson Power Products	2020_CONNECTORS	1	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	

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	White Board	Kettering Universty	whiteboard	1	Bob Nichols bnichols@kettering.edu	
REV Robotics Kit						
	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	
Bag #9						
	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	

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	Solenoid Valve Double, 24VDC (in FESTO packet)	Festo	VUVG-LK10-B52-T-M7-1H2L-S or 8042548	1	www.festo.us/first	
	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	
	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	222P-4-2	1	www.parker.com	

2020 Kickoff Kit Checklist

GRAY TOTE

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	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	
	E-Stop Sticker	D3	estopsticker	1	Not available	
	PTFE Thread Seal Tape (aka Teflon Tape), 1/4 in. x 520 in.	HPE Automation	PTFE-1-4	1	www.hpeco.com	
	Relief Valve	IMI Precision Engineering/Norgren	16-004-011	1	https://www.imi-precision.com/us	

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	Regulator Mounting Kit	IMI Precision Engineering/Norgren	18-025-003	1	https://www.imi-precision.com/us	
	Pressure Regulator	IMI Precision Engineering/Norgren	R07-100-RNEA	1	https://www.imi-precision.com/us	
	Pressure Switch	Nason	SM-2B-115R/443	1	www.nasonptc.com	
	Blue Fine pt Marker	Kettering Universty	260003	1	Bob Nichols bnichols@kettering.edu	
	Red Fine pt Marker	Kettering Universty	260007	1	Bob Nichols bnichols@kettering.edu	
	Pen Clip	Kettering Universty	PENCLIP	2	Bob Nichols bnichols@kettering.edu	