

2020 Kickoff Kit Checklist

BLACK TOTE

☒	Item Description	Supplier	Part Number	Qty	Where to get more?	Photo
Bag #1						
Assorted Terminal Bag						
~5 x 10-12 AWG Disconnect F (PN 80610531362)						
~2 x 10-12 AWG Parallel Connector (PN 80601385836)						
~2 x 14-16 AWG Parallel Connector (PN 80601383724)						
~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-2020	1	No Specific Source	
Wire						
06 AWG, Black, 1½ ft. length		Belden	06AWGB-1.5	1	No Specific Source	
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	

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	UNIWRAP Cable Ties 4 in., 18 lb, white, bag of 100	BURNDY LLC	CT18075C	1	No Specific Source	
	UNIWRAP Cable Ties 7.5 in., 50 lb, white, bag of 100	BURNDY LLC	CT50175C	1	No Specific Source	
Bag #3						
	Hex Hub Half ½ in.	Armabot	A0066	2	https://www.armabot.com/	
	Sticker: F1 Intake Instructions	Armabot	2020-F1STICK	1	https://www.armabot.com/	
	Sticker: RS7 Encoder Instructions	Armabot	2020-RS7STICK	1	https://www.armabot.com/	
	Cable Retaining Clips Pack of 10	Innovation First International	276-4128	1	www.vexpro.com	 Photo: VEXpro

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	Shaft Collar 3/8 in.	Ruland Manufacturing Co., Inc.	CL-6-A	1	www.ruland.com/first	
	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	
	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	
Bag #4						
	Grip Material 18 in. length	3M	70006701497 or 300LSE	1	No Specific Source	

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	Electrical Tape "Super 33+," Vinyl, Black, 3/4 in x 66 ft.	3M	34-8720-3265-0	1	No Specific Source	
	Electrical Tape "35 Red," Vinyl, Red, 3/4 in x 66 ft.	3M	38-9019-3978-5	1	No Specific Source	
	CULUG Copper Compression Terminal 6 AWG, bag of 8	BURNDY LLC	YAZV6CTC14FX	1	www.andymark.com	
	Bumper Material Sample	Robopromo.com	N/A	1	Not Available	
	INFINITE RECHARGE Participation Pins Bag of 40	Sports Awards	2020_PINPACKET	1	www.firstinspiresawards.com	
Bag #6						
	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	
	Heat Shrink Thin-Wall Tubing, 1/8 in., 4 ft. length, FP301	3M	80611600893	2	No Specific Source	
	Heat Shrink Thin-Wall Tubing, 1/4 in., 4 ft. length, FP301	3M	80611600968	2	No Specific Source	
	Heat Shrink Thin-Wall Tubing, 1/2 in., 4 ft. length, FP301	3M	80611601206	2	No Specific Source	
	Instant Adhesive Scotch-Weld	3M	CA8	1	No Specific Source	
	Plastic & Rubber Instant Adhesive Scotch-Weld	3M	PR100	1	No Specific Source	

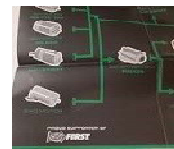
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Bag #8						
	Info packet SB50 connector	Anderson Power Products	N/A	1	Not Available	
	Autodesk sticker sheet	Autodesk	2020-AutodeskStickers	1	Not Available	
	Voucher Info Sheet	Digi-Key Electronics	N/A	1	Not Available	
	Ruler	Digi-Key Electronics	DIGIKEYRULER	1	Not Available	
	Sticker Card	Digi-Key Electronics	N/A	1	Not Available	
	FIRST RISE presented by Star Wars: Force for Change, Decal for Robot	FIRST	2020-THEME-DECAL	1	Not Available	

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	FMS/Events Flyer	FIRST	eventFlyer2020	1	Not Available	
	Event Housing Info Sheet	FIRST	N/A	1	Not Available	
	FLUKE Sticker	Fluke Industrial	FLUKE-STICKER	1	Not Available	
	VEXPro Poster	Innovation First International	217-6120	1	www.vexpro.com	
	VexPro Sticker Packet	Innovation First International	2020-VEXPACKET	1	www.vexpro.com	
	High Performance Ultrasonic Rangefinder (sensor stapled to flyer)	MaxBotix Inc.	MB1013-000	1	www.Maxbotix.com/firstrobotics	

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	Molex Info Card	Molex	2020-MOLEX	1	Not Available	
	National Instruments Kickoff Kit Packet	National Instruments	N/A	1	Available Online	
	Postcard: Siemens software/certification	Siemens	2020-SIEMENSCARD	1	Not Available	
	2020 Kit of Parts (Voucher) Catalog	D3	N/A	1	Available Online	
	Aluminum Info Sheet	Hydro Extrusion North America	N/A	1	Not Available	
	Virtual Kit Checklist	D3	N/A	1	Available Online	

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	Info Magnet	WPI	N/A	1	Not Available	
	Info Sheet	WPI	N/A	1	Not Available	
Igus Bag						
	e-chain® cable carrier 1 meter	igus Inc.	05-4-038-0	1	www.igus.com	 Photo: igus
	e-chain® cable carrier mounting bracket set	igus Inc.	050-20-12	1	www.igus.com	
	chainflex cable 20 AWG, 2 wire	igus Inc.	CF9-05-02	1	www.igus.com	
	iglide® tribo-tape 12 in. strip	igus Inc.	A160T5100S305	1	www.igus.com	

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	drylin® N linear guide system With 24 in. rail & 2 carriages	igus Inc.	NK02-40-2-610	1	www.igus.com	 Photo: igus
	iglide® J plain bearing	igus Inc.	JSI-1012-08	2	www.igus.com	 Photo: igus
	iglide® J plain bearing w/ flange	igus Inc.	JFI-1012-08	2	www.igus.com	
	iglide® M250 plain bearing	igus Inc.	MTI-10	2	www.igus.com	 Photo: igus
	igubal® rod end	igus Inc.	EBRI-10R	2	www.igus.com	
	igubal® flange	igus Inc.	EFOI-10R	2	www.igus.com	

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	drylin® S aluminum shafting 24 in.	igus Inc.	AWI-10	2	www.igus.com	 Photo: igus
	iglide® MCI bearing	igus Inc.	MCI-06-01	4	www.igus.com	 Photo: igus
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	

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	POE Injector Cable	REV Robotics	REV-11-1210	1	www.revrobotics.com	
	Color Sensor	REV Robotics	REV-31-1557	1	www.revrobotics.com	
	Color Sensor Cable 4-pin JST to FRC I2C, 100cm	REV Robotics	REV-11-1729	1	www.revrobotics.com	
Loose						
	Dual Lock Reclosable Fastener 12 ft.	3M	SJ3540 or 70070521052	1	No Specific Source	
	VHB Tape	3M	70006149820	1	No Specific Source	
	Scholarship Calendar	FIRST	N/A	1	Not Available	

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	Compliant Wheel, 4in. 1/2in Hex, 50 Durometer	AndyMark	am-3480_blue	1	http://www.andymark.com	
	Stealth Wheel, 2in. 1/2in. Hex, 50 Durometer	AndyMark	am-3155_blue	1	www.andymark.com	
	Pneumatic Tubing Kit Two 25 ft. tubing & voucher flyer	AutomationDirect.com	2020-AD-Bag	1	No Specific Source	
	Main Circuit Breaker 120A	Eaton - Bussmann Division	CB185-120	1	www.eaton.com/bussmannseries	
	Robot Radio Dual Band 1.17 Gbps Access Point	Open Mesh Networks	OM5P-AC	1	www.andymark.com	
	Throttle Motor	DENSO/ ASMO	AE235100-0160	1	Not Available	

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	Power cable, for radio	Epec	PwrCblRdo	1	No Specific Source	
	Game Piece: POWER CELL	Flaghouse	1892-YEL or AM-4200	1	www.andymark.com	
	775 Pro Motor	Innovation First International	217-4347	1	www.vexpro.com	
	MiniCIM Motor	Innovation First International	217-3371	1	www.vexpro.com	
	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	

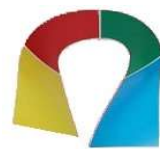
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	Foam Gripper	John Deere	M156751	2	Not Available	
	Travel Waist Pack	Kettering University	TravelPack	1	Bob Nichols bnichols@kettering.edu	
	BB8 Banner	The Walt Disney Company	BB8BANNER	1	Not Available	
	Battery Sealed Lead Acid, 12V, 18Ah, Bolt Fastened, Rechargeable	MK Battery	ES17-12	1	www.mkbattery.com	
	Robot Signal Light (i.e. Panel Signal Device)	Rockwell Automation	855PB-B12ME522	1	No Specific Source	
	Cardboard VR Viewer (colors vary)	Siemens	cardboardvr	1	Not Available	

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	Ethernet cable colors & lengths vary	Various	ethernetcable	1	No Specific Source	
	Lazy Susan	Triangle Manufactureing	12D10346	1	www.triangleoshkosh.com	
	Color Swatch for Control Panel	TurnOne Graphics	ColorSample	1	www.turnonegraphics.com	
	Battery Connector SB50-FR (housing) and 5900-BK (contacts)	Anderson Power Products	2020_CONNECTORS	3	http://www.andersonpower.com (housing & contacts) http://www.andymark.com (connector assembly)	