






# 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><br>06 AWG, Black, 1½ ft. length            | Belden   | 06AWGB-1.5             | 1   | No Specific Source |    |
|                                     | <b>Wire</b><br>06 AWG, Red, 1½ ft. length              | Belden   | 06AWGR-1.5             | 1   | No Specific Source |    |
|                                     | <b>Wire</b><br>12 AWG, Red & Black, 15 ft. length each | Belden   | 12AWGB-15<br>12AWGR-15 | 1   | No Specific Source |   |
|                                     | <b>Wire</b><br>18 AWG, Red & Black, 10 ft. length each | Belden   | 18AWGB-10<br>18AWGR-10 | 1   | No Specific Source |  |






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| Yellow Bag                          |   |                                      |                 |     |  |   |
|                                     | <b>Hex Hub Half</b><br>½ in.  | Armabot                              | A0066           | 2   | <a href="https://www.armabot.com/">https://www.armabot.com/</a>  |    |
|                                     | <b>Sushi Roller Assortment Kit</b><br>1x Sushi Roller, 500 Hex Bore, 60A(am-4541_black)<br>1x Sushi Roller, 500 Hex Bore, 50A(am-4541_blue)<br>1x Sushi Roller, 500 Hex Bore, 40A(am-4541_orange)<br>1x Sushi Roller, 500 Hex Bore, 35A(am-4541_green)<br>1x Spacer, 500 Hex Molded 1in(am-3948-1000)<br>2x Spacer, 500 Hex Molded 1/2 in(am-3948-500)<br>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><br>⅜ in.  | Ruland<br>Manufacturing<br>Co., Inc. | CL-6-A          | 1   | <a href="http://www.ruland.com/first">www.ruland.com/first</a>   |   |
|                                     | <b>Circuit Breaker</b><br>20A   | Snap Action, Inc.                    | VB3-A20-F57     | 2   | <a href="http://www.snapaction.net">www.snapaction.net</a><br>or<br><a href="http://www.andymark.com">www.andymark.com</a> |  |







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|                                     | <b>Circuit Breaker</b><br>30A  | Snap Action, Inc.           | VB3-A30-F57              | 2   | <a href="http://www.snapaction.net">www.snapaction.net</a><br>or<br><a href="http://www.andymark.com">www.andymark.com</a>    |    |
|                                     | <b>Circuit Breaker</b><br>40A  | Snap Action, Inc.           | MX5-A-40                 | 6   | <a href="http://www.snapaction.net">www.snapaction.net</a><br>or<br><a href="http://www.andymark.com">www.andymark.com</a>    |    |
|                                     | <b>Vulcan Springs Packet</b><br>1 Series H (PN SH6G25), 1 Series L (PN SL6G25),<br>voucher info page   | Vulcan Spring &<br>Mfg. Co. | SH6G25<br>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><br>~5 x 10-12 AWG Disconnect F (PN 80610531362)<br>~20 x 10-12 AWG Quick Disconnect F (80610531214)<br>~20 x 14-16 AWG Quick Disconnect F (80601391719)<br>~20 x 10-12 AWG Quick Disconnect M (80610057806)<br>~20 x 14-16 AWG Quick Disconnect M (80610056071)<br>~10 x 10-12 AWG Ring Terminal (PN 80610048540)<br>~5 x 14-16 AWG Ring Terminal (PN 80610040737)<br>~5 x 18-22 AWG Ring Terminal (PN 80610035307) | 3M                          | TERMINAL_BAG             | 1   | No Specific Source  |   |
|                                     | <b>Grip Material</b><br>18 in. length  | 3M                          | 70006701497 or<br>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><br>SJ5003, Sheet of 56                                 | 3M       | 70070079671 | 1   | No Specific Source |    |
|                                     | <b>Bumpon</b><br>SJ5009, Sheet of 24                                 | 3M       | 70070079754 | 1   | No Specific Source |    |
|                                     | <b>Heat Shrink</b><br>Thin-Wall Tubing, 1/8 in., 4 ft. length, FP301 | 3M       | 80611600893 | 1   | No Specific Source |   |
|                                     | <b>Heat Shrink</b><br>Thin-Wall Tubing, 1/4 in., 4 ft. length, FP301 | 3M       | 80611600968 | 1   | No Specific Source |  |
|                                     | <b>Heat Shrink</b><br>Thin-Wall Tubing, 1/2 in., 4 ft. length, FP301 | 3M       | 80611601206 | 1   | No Specific Source |  |







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|                                     | <b>Instant Adhesive</b><br>Scotch-Weld                      | 3M                      | CA8          | 1   | No Specific Source |    |
|                                     | <b>Plastic &amp; Rubber Instant Adhesive</b><br>Scotch-Weld | 3M                      | PR100        | 1   | No Specific Source |    |
| <b>Clear Bag</b>                    |   |                         |              |     |                    |   |
|                                     | <b>Info packet</b><br>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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|                                     | 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<br>(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<br>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><br>1 meter                 | igus Inc. | 05-06-018-0 | 1   | <a href="http://www.igus.com">www.igus.com</a> |    |
|                                     | <b>chainflex cable</b><br>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><br>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><br>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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| <b>REV Robotics Kit</b>             |   |              |             |     |  |   |
|                                     | <b>2-Wire Jumper Cable</b><br>36 in., F/F             | REV Robotics | REV-11-1134 | 1   | <a href="http://www.revrobotics.com">www.revrobotics.com</a> |    |
|                                     | <b>CAN Wire</b><br>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><br>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><br>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><br>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><br>12 ft.           | 3M           | SJ3540<br>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><br>(i.e. Panel Signal Device) | Rockwell Automation | 855PB-B12ME522 | 1   | No Specific Source  |    |
|                                     | <b>Ethernet cable</b><br>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  |  |