













| <input checked="" type="checkbox"/> | Item Description | Supplier | Part Number | Qty | Where to get more? | Photo |
|-------------------------------------|---|--------------------------------|----------------------------|-----|--|---|
| Loose | | | | | | |
| | USB 2.0 to 10/100 Mbps Ethernet Network Adapter Dongle | Connection | USB2100 | 1 | No specific source |  |
| | 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 (513) 521-4261 |  |
| | 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 |  |







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| | PSoC 5LP Prototyping Kit | Cypress | CY8CKIT-059 | 1 | http://www.cypress.com/forum/fIRST-robotics-competition www.digikey.com |  |
| | Netbook Lenovo | Connection | 2019 Netbook or 81CY | 1 | No specific source |  |
| | Power (Battery) Charger | HK TENGSHUN POWER SUPPLY CO LIMITED | FY1205000 | 1 | No specific source |  |
| | NI roboRIO for FRC | National Instruments | 783582-01 | 1 | www.andymark.com |  |
| | Battery Connector SB50-FR (housing) and 5900-BK (contacts) | Anderson Power Products | 2019 CONNECTORS | 1 | http://www.andersonpower.com (housing & contacts) http://www.andymark.com (connector assembly) |  |
| | Gamepad (ROOKIES ONLY) F310 Logitech | Connection | 940-000110 | 1 | No specific source |  |







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|-------------------------------------|---|--------------|-------------|-----|--|---|
| | Camera Microsoft LifeCam | Connection | HD-3000 | 1 | No specific source |  |
| | Compressor Model 90C | Viair | 00090 | 1 | No specific source |  |
| 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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| Digilent Kit | | | | | | |
| | Digilent Ruler PCB | Digilent | 200-332 | 1 | www.digilent.com |  |
| | Tail Skid | Digilent | 290-015 | 1 | www.digilent.com |  |
| | Screwdriver Green, 2.4mm flat tip blade | Digilent | 460-008 | 1 | www.digilent.com |  |
| | Sticky Servo Wheel Tire 2.75in x 0.38in | Digilent | 290-022 | 2 | www.digilent.com |  |
| | Wheel Kit | Digilent | 240-015 | 1 | www.digilent.com |  |
| | 2 Cell, AA Battery, Series connection, wire leads | Digilent | 163-043 | 1 | www.digilent.com |  |

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|-------------------------------------|---|----------|--|-----|--|---|
| | USB 2.0 A to B Cable Shielded - 1.5 meters | Digilent | 250-059 | 1 | www.digilent.com |  |
| | MTE Cable 4 x (2x2) | Digilent | 250-061 | 4 | www.digilent.com |  |
| | 9V Battery Connector | Digilent | 310-031 | 4 | www.digilent.com |  |
| Bag #9 | | | | | | |
| | E-Stop Sticker | N/A | estopsticker | 1 | Not available |  |
| | 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 |  |
| | PTFE Thread Seal Tape (aka Teflon Tape), 1/4 in. x 520 in. | HPE Automation | PTFE-1-4 | 1 | No specific source |  |
| | Pressure Gauge 1/8 in NPT, 160psi | Colonial Instruments | 102D-158F | 2 | No specific source |  |
| | Relief Valve | IMI Precision Engineering/Norgren | 16-004-011 | 1 | No specific source |  |
| | Pressure Switch | Nason | SM-2B-115R/443 | 1 | www.nasonptc.com |  |
| | Micro Valve Female Pipe (in Parker "FIRST kit") | Parker Hannifin Corporation | MV709-2 | 1 | No specific source |  |

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|-------------------------------------|--|-----------------------------|-------------|-----|--------------------|---|
| | Union Tee (in Parker "FIRST kit") | Parker Hannifin Corporation | 2203P-2 | 3 | No specific source |  |
| | Plug 1/8 in. (in Parker "FIRST kit") | Parker Hannifin Corporation | 218P-2 | 2 | No specific source |  |
| | Plug 1/4 in. (in Parker "FIRST kit") | Parker Hannifin Corporation | 218P-4 | 2 | No specific source |  |
| | Hex Nipple 1/4 in. (in Parker "FIRST kit") | Parker Hannifin Corporation | 216P-2 | 3 | No specific source |  |
| | Adapter 1/4 in. to 1/8 in, F/M (in Parker "FIRST kit") | Parker Hannifin Corporation | 222P-4-2 | 1 | No specific source |  |
| | Brass Bushing 1/8 in. to 1/4 in, F/M (in Parker "FIRST kit") | Parker Hannifin Corporation | 209P-4-2 | 2 | No specific source |  |

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| | Prestolok Male Connector (in Parker "FIRST" kit") | Parker Hannifin Corporation | W68PLP-4-2 | 6 | No specific source |  |
| | Prestolok Union Tee (in Parker "FIRST" kit") | Parker Hannifin Corporation | 364PLP-4 | 4 | No specific source |  |
| | Prestolok Elbow Connector (in Parker "FIRST" kit") | Parker Hannifin Corporation | W369PLP-4-2 | 4 | No specific source |  |
| | Voucher Red and Blue Bumper Material | Robopromo.com | N/A | 1 | Not available |  |
| | Pressure Regulator | IMI Precision Engineering/Norgren | R07-100-RNEA | 1 | No specific source |  |
| | Regulator Mounting Kit | IMI Precision Engineering/Norgren | 18-025-003 | 1 | No specific source |  |

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| VEXpro Rookie Add-On Kit | | | | | | |

CIM Motor

VEXpro

217-2000

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www.vexrobotics.com



Motor Controller, Victor SPX

VEXpro

217-9191

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www.vexrobotics.com



Photo: VEXpro