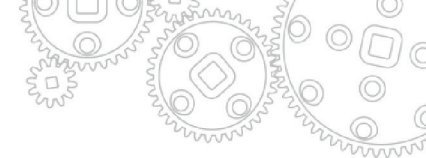









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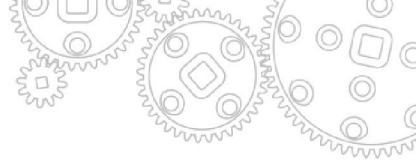
Classroom & Competition Super Kit
276-3000








Classroom & Competition Super Kit



Part Number	Picture	Name	QTY	Details
276-2194		VEX ARM® Cortex®-based Microcontroller	1	The VEX ARM® Cortex®-based Microcontroller coordinates the flow of information and power on the robot. All other electronic system components must interface to the Microcontroller.
276-1403		USB A-A Tether Cable 6'	1	The USB A-A Tether Cable is used for connecting VEXnet components to sync and run in tether mode.
276-2193		Motor Controller 29	6	The VEX Motor Controller 29 uses a standard PWM signal (like that originating from the 3-wire ports on microcontrollers) to drive a VEX 2-Wire Motor.
276-2192		VEXnet Joystick	1	The VEXnet Joystick is the next generation of robot control for VEX robots using the VEX ARM® Cortex®-based Microcontroller.
276-3245		VEXnet Key 2.0	2	The VEXnet Key 2.0 provides wireless communication between VEX ARM® Cortex®-based Microcontroller and VEXnet Joysticks.
276-2176		LED Indicator Pack	1	The LED Indicator Pack is compatible with VEX Microcontroller Digital Outputs
276-1424		3-Wire Extension Cables (large bundle)	3	3-Wire "Y" Cable 6"
			3	3-Wire Extension Cable 6"
			3	3-Wire Extension Cable 12"
			1	3-Wire Extension Cable 24"
			1	3-Wire Extension Cable 36"





Part Number	Picture	Name	QTY	Details
276-2159		Bumper Switch	2	The Bumper Switch pack includes a pair of simple bumper switches custom built for the VEX EDR robots.
276-2174		Limit Switch	2	The Limit Switch pack includes a pair of simple limit switch sensors custom built for the VEX EDR robots.
276-1321		Motor 393 Integrated Encoder Module	1	The Motor 393 Integrated Encoder Module replaces the plastic cap on the back of a VEX 2-Wire Motor 393 with a quadrature encoder.
276-2216		Potentiometer	1	The Potentiometer determines both position and direction of rotation.
276-2154		Line Tracker	1	The Line Tracker enables a robot to autonomously navigate a line-marked path.
276-2155		Ultrasonic Range Finder	1	The Ultrasonic Range Finder can be used to determine distances to objects.
276-2156		Optical Shaft Encoder	2	The Optical Shaft Encoder can be used to track distance traveled, direction of motion, or position of any rotary component.



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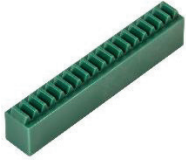








Part Number	Picture	Name	QTY	Details
276-2177		2-Wire Motor 393	7	The 2-Wire Motor 393 is the primary actuator used for the VEX EDR robots.
276-2212		Claw Kit	1	With the VEX Robotics Claw Kit, your robot can easily grab and manipulate various objects.
276-1843		Shaft Coupler	4	The Shaft Couplers make replacing 3-Wire Motors quick and simple.
276-2010		Shaft Collar	37	The Shaft Collar locks to drive shafts, keeping wheels and gears from sliding along the shaft.
276-2011		Drive Shaft 2"	4	Drive Shaft Square Bar 2"
276-2011		Drive Shaft 3"	12	Drive Shaft Square Bar 3"
276-1149		Drive Shaft 12"	4	Drive Shaft Square Bar 12"
N/A		Drive Shaft 11mm	4	Drive Shaft Square Bar 11mm
N/A		Drive Shaft 4"	2	Drive Shaft Square Bar 4"
276-1209		Bearing Flat	44	The Bearing Flat mounts directly on a piece of VEX structure and supports a shaft which runs perpendicular and directly through the structure.
276-2016		Pillow Block Bearing	6	Bearing Blocks mount on a piece of structure and support shafts.
		Lock Plate	4	Lock Bars allow any VEX component to be "locked" to a shaft.
275-1262		Latex Tubing (10')	1	This VEX Tubing can stretch more than 4 times its length and still spring back to its original shape. VEX Latex Tubing is great for any application on a VEX robot requiring spring loading.



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Part Number	Picture	Name	QTY	Details
276-2769		Gear Kit	6	12-tooth Gear
			4	36-tooth Gear
			10	60-tooth Gear
			4	84-tooth Gear
276-1957		Rack Gear, 19-tooth	20	The Rack Gears can be used to turn rotary motion into linear motion.
276-2250		High Strength Gear Kit	4	High Strength 12-tooth Gear
			4	High Strength 36-tooth Gear
			4	High Strength 60-tooth Gear
			16	High Strength Square Gear Insert
			16	Free Spinning Gear Insert
276-1499		Intake Roller	4	The Intake Rollers are specifically designed for ball intake systems.
276-1496		2.75" Wheel Pack	4	The VEX 2.75" diameter Wheels include a smooth grippy tire for high traction on smooth surfaces.
276-1497		4" Wheel	4	The VEX 4" diameter Wheels include a tire that works well on any surface.
276-2185		4" Omni- Directional Wheel	4	The Omni-Directional wheels roll forward like normal wheels, but slide sideways with almost no friction.
275-1089		Rubber Band #32	20	VEX Synthetic Rubber Bands have dozens of uses on a robot. Their spring-like properties make them perfect for latches, triggers, and return mechanisms.



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Part Number	Picture	Name	QTY	Details
276-2214		Tank Tread Upgrade Kit	25	Tank Tread Traction Link
			30	Conveyor-belt Base Links
			10	Short Conveyor-belt Inserts
			10	Medium Conveyor-belt Inserts
			10	Long Conveyor-belt Inserts
276-2252		High Strength Sprocket & Chain Kit	4	High Strength 6-tooth Sprocket
			2	High Strength 12-tooth Sprocket
			2	High Strength 18-tooth Sprocket
			2	High Strength 24-tooth Sprocket
			2	High Strength 30-tooth Sprocket
276-2172		Additional High Strength Chain	280	High Strength Chain Links
			40	Chain Attachment Links
276-1926		Linear Motion Kit	2	12" Long Linear Slide Track
			2	17.5" Long Linear Slide Track
			2	Rack Bracket
			4	Inner Acetal Slide Truck
			4	Outer Acetal Slide Truck
275-1141		Bar 1x25	8	The VEX bar with holes on 0.500" increments. Can be cut on 0.500" increments.
N/A		Bar 1x20	2	
275-1142		Chassis Bumper (25-hole)	2	VEX Angles without slots. Typically used for structural framing. Good strength on two axis.
N/A		Chassis Bumper (20-hole)	2	
N/A		Angle, Slotted 30 holes	2	VEX angles. Typically used for structural framing. Good strength on two axis.
N/A		Angle, Slotted 30 holes Inverse	2	
N/A		Angle, Segmented 25 holes	2	



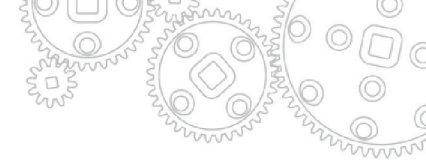
Classroom & Competition Super Kit



Part Number	Picture	Name	QTY	Details
276-1145		Chassis Rail (25-hole)	4	The Chassis Rail are part of the larger VEX Chassis Kits. This rail has holes on 0.500" increments and another row in-between.
N/A		Chassis Rail (16-hole)	4	
275-1138		1x5x1x25	2	The VEX C-Channel has holes on 0.500" increments. This structural member is perfect for building bigger robots.
N/A		1x2x1x15	4	
N/A		1x2x1x20	1	
N/A		1x2x1x25	2	
275-2023		Plate 15x5	2	Plate with holes on 0.500" increments and 1/8" diamonds in-between. Can be cut on 0.500" increments.
275-1140		Plate 25x5	2	
N/A		Plate 5x5	2	
275-1110		Gusset Pack	4	Pivot Gussets
			4	Angle Gussets
			4	Plus Gussets
275-1014		Standoff 0.50"	10	The Standoff is used in mechanics and electronics to separate two parts from one another.
275-1016		Standoff 1.00"	8	
275-1018		Standoff 2.00"	4	
275-1020		Standoff 3.00"	4	
275-1003		Screws 8-32	102	Screw 8-32 x 0.375" Long
275-1004			42	Screw 8-32 x 0.500" Long
275-1005			28	Screw 8-32 x 0.625" Long
275-1006			14	Screw 8-32 x 0.750" Long
275-1010			3	Screw 8-32 x 1.500" Long
275-1169		Screws 6-32	10	Screw 6-32 x 0.500" Silver
275-0629			10	Screw 6-32 x 0.250" Silver
275-1272		Hinge	2	This hinge provides a simple pivoting joint with 265 degree movement.



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Part Number	Picture	Name	QTY	Details
N/A		Screw 6-32 x 0.250" Locking	6	The Lock Screws have thread locker applied on their threads; this thread locker will help hold the screw in position.
276-1958		Screw 6-32 x 0.500" Locking	6	
275-1026		Nut 8-32 Keps	172	The Keps Nut is an integrated tooth lock washer.
275-1027		Nut 8-32 Nylock	28	The Nylock nuts have internal nylon lock.
275-1024		Steel Washer	30	The Steel washers are a good all-purpose washer.
275-1025		Teflon Washer	10	The Teflon washer has low friction and is best used where metal rubs on metal.
276-2215		Bearing Attachment Rivet	82	The Bearing Attachment Rivet makes mounting Flats Bearing onto VEX structural components easy.
276-2018		Thin Shaft Spacer	26	The spacer is used to create a space between two objects, often to properly position them.
276-2019		Thick Shaft Spacer	20	



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Part Number	Picture	Name	QTY	Details
276-1032		4" Zip Ties	50	The Black Zip Ties are used to hold together and manage cables, band rubber chords, or attach to rollers or tank tread to assist an intake mechanism.
276-1491		7.2V Robot Battery NiMH 3000mAh	1	This VEX 7.2V Nickel Metal Hydride Battery provides a higher-capacity, rechargeable power source for use with your VEX robots.
276-1696		AAA NiMH Rechargeable Battery	1	A 6-pack of AAA NiMH Rechargeable Batteries designed for use in the VEXnet Joystick.
276-2519		Smart Charger v2 w/ Power Cord Options	1	The VEX Smart Charger v2 is capable of charging all VEX rechargeable power packs.
276-1622		8-Bay AA/AAA Smart Battery Charger	1	This Smart Battery Charger is capable of charging up to eight Ni-MH or Ni-Cd rechargeable AA or AAA batteries.
276-2243		VEXnet Backup Battery Holder	1	The VEXnet Backup Battery allows you to mount and connect (1) 9V battery. This battery will keep the VEXnet alive when the main battery fails.
276-1382		Tool Kit	2	Open End Wrench
			2	3/32" Hex Key
			2	5/64" Hex Key

