




# 270-8867 VEX EXP GATEWAY CUSTOM KIT

This kit includes the following sub-kits and are packaged, labeled, and shipped as shown.

Part Number	Picture	Description	Qty
280-8075		<p><b>VEX EXP System Bundle</b></p> <ul style="list-style-type: none"> <li>• EXP Robot Brain (1)</li> <li>• EXP Robot Battery Li-Ion 2500mAh (1)</li> <li>• EXP Controller (1)</li> <li>• Brain Flange Short (2)</li> <li>• V5 Smart Motor (5.5W) (5)</li> <li>• V5 Distance Sensor (1)</li> <li>• V5 Optical Sensor (1)</li> <li>• USB Cable (A-C, 2m) (1)</li> <li>• V5 Smart Cable – 200mm (3)</li> <li>• V5 Smart Cable – 300mm (2)</li> <li>• V5 Smart Cable – 300mm (2)</li> </ul>	2
280-8069		<p><b>EXP Bin 1</b></p> <ul style="list-style-type: none"> <li>• High Strength 24 Tooth Gear (2)</li> <li>• High Strength 36 Tooth Gear (4)</li> <li>• High Strength 48 Tooth Gear (2)</li> <li>• High Strength 60 Tooth Gear (2)</li> <li>• 260mm (3.25" dia) Travel Wheel (2)</li> <li>• 260mm (3.25" dia) Omni-Directional Wheel (2)</li> <li>• 2x Wide, 3.5x Pitch Diameter Balloon Tire (Trapezoid Offroad Tread) Anti-Static (4)</li> <li>• 32.2mm Diameter V5 Wheel Hub (4)</li> <li>• 2x Wide, 6.5x Pitch Diameter Balloon Tire (Trapezoid Offroad Tread) Anti-Static (4)</li> <li>• 48.5mm Diameter V5 Wheel Hub (4)</li> <li>• Bumper Switch 6N (2)</li> <li>• 3-Wire Extension Cable (6") (2)</li> </ul>	2


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Part Number	Picture	Description	Qty
280-8070		<p style="text-align: center;"><b>EXP Bin 2</b></p> <ul style="list-style-type: none"><li>• 2x12 EXP PET Sheet (4)</li><li>• 6x6 EXP PET Sheet (4)</li><li>• 6x12 EXP PET Sheet (4)</li><li>• 4" Zip Ties (100-pack) (1)</li><li>• EPDM Rubber Band #64 (10-pack) (2)</li><li>• 16x Pitch Shaft (2)</li><li>• Standoffs (Small Case) (1)</li><li>• High Strength Shaft Adapters (Small Case) (1)</li><li>• Rubber Shaft Collars (Small Case) (1)</li><li>• Spacers (Small Case)</li><li>• Nuts &amp; Washers (Medium Case) (1)</li><li>• Screws (Medium Case) (1)</li><li>• Hex Nut Retainers (Medium Case) (1)</li><li>• Bearings (Medium Case) (1)</li><li>• Chain Links (Large Case) (1)</li><li>• Tank Tread Links (Large Case)</li><li>• Intake Flaps (Large Case) (1)</li><li>• Gears &amp; Linkage Beams (X-Large Case) (1)</li><li>• Shafts &amp; Tools (X-Large Case) (1)</li><li>• Sprockets (Square Case) (1)</li></ul>	2



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280-8071		<p><b>EXP Bin 2 Structure</b></p> <ul style="list-style-type: none"><li>• 4x 1x2x1 Channel (4)</li><li>• 8x 1x2x1 Channel (4)</li><li>• 12x 1x2x1 Channel (6)</li><li>• 16x 1x2x1 Channel (6)</li><li>• 4x4 Flat Plate (2)</li><li>• 4x16 Flat Plate (2)</li><li>• 2x4 Flat Plate (4)</li><li>• 2x8 Flat Plate (2)</li><li>• 2x12 Flat Plate (2)</li><li>• 2x16 Flat Plate (2)</li><li>• 1x4 Flat Bar (4)</li><li>• 1x8 Flat Bar (4)</li><li>• 1x12 Flat Bar (2)</li><li>• 1x16 Flat Bar (4)</li><li>• Robot Brain Mounting Bracket (1)</li><li>• 30 Degree Flat Gusset (4)</li><li>• 30 Degree Bent Gusset (2)</li><li>• 45 Degree Flat Gusset (4)</li><li>• 45 Degree Bent Gusset (2)</li><li>• 60 Degree Flat Gusset (4)</li><li>• 60 Degree Bent Gusset (2)</li><li>• 90 Degree Flat Gusset (4)</li><li>• 90 Degree Bent Gusset (2)</li></ul>	2


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This kit includes the following sub-kits and are packaged, labeled, and shipped as shown.

Part Number	Picture	Description	Qty
270-7334		<p style="text-align: center;"><b>270-1920 Base Kit</b></p> <ul style="list-style-type: none"> <li>• 275-1030 3/32" Hex Key (8-pack) (1)</li> <li>• 275-1031 5/64" Hex Key (8-pack) (1)</li> <li>• 276-1341 Base Plate 30x15 (2-pack) (1)</li> <li>• 276-1424 3-Wire Extension Cables (Large Bundle) (1)</li> <li>• 276-1546 Winch and Pulley Kit (1)</li> <li>• 276-1926 Linear Motion Kit (1)</li> <li>• 276-2045 Advanced Mechanics and Motion Kit (1)</li> <li>• 276-2161 Metal &amp; Hardware Kit (1)</li> <li>• 276-2169 Gear Kit (1)</li> <li>• 276-2174 Limit Switch (2-pack) (3)</li> <li>• 276-2212 Claw Kit (1)</li> <li>• 276-2215 Bearing Attachment Rivet (50-pack) (1)</li> <li>• 276-2252 High Strength Sprocket &amp; Chain Kit (1)</li> <li>• 276-4858 Bumper Switch v2 (2-pack) (1)</li> <li>• 276-6558 Tank Tread Kit (1)</li> <li>• 276-2176 LED Indicator Pack (1)</li> <li>• 276-6481 1-Post Hex Nut Retainer w/ Bearing Flat (10-pack) (1)</li> <li>• 276-6482 1-Post Hex Nut Retainer (10-pack) (1)</li> <li>• 228-3510 Rubber Shaft Collar (30-pack) (1)</li> <li>• 276-2154 Line Tracker (3-Pack) (1)</li> </ul>	1
270-7337		<p style="text-align: center;"><b>PLTW Metal Kit</b></p> <ul style="list-style-type: none"> <li>• 276-1149 Drive Shaft 12" (4-pack) (1)</li> <li>• 276-1496 2.75" Wheel (4-Pack) (1)</li> <li>• 276-2232-800 Booster Kit - Hardware Components Box (1)</li> <li>• 276-2232-801 Booster Kit - Structural Elements Box (1)</li> <li>• 276-6929 Clawbot Kit, No Motors (1)</li> </ul>	1

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Part Number	Picture	Description	Qty
276-8963		<b>Gateway EXP Hardware Kit</b> <ul style="list-style-type: none"><li>• 276-2016 Pillow Block Bearing &amp; Lock Bar Pack (1)</li><li>• 276-1546-001 Winch Bracket (2)</li><li>• 276-2184 Advanced Gear Kit (1)</li><li>• 275-1189 Bevel Gearbox Bracket (2-pack) (1)</li><li>• 276-5011-001 T15 Star Drive Key (4)</li><li>• 276-5012-001 T8 Star Drive Key (4)</li></ul>	1