

VEX IQ Competition Kit (2nd generation)

Kit Content

Electronics

- (1) Robot Brain (2nd generation) [228-6480]
 - (6) Smart Motor [228-2560]
 - (1) Controller (2nd Generation) [228-6470]
 - (1) Robot Battery (Li-Ion, 2000 mAh) [228-7045]
 - (1) Touch LED [228-3010]
 - (1) Bumper Switch [228-2677]
 - (1) Optical Sensor [228-7082]
 - (1) Distance Sensor [228-7106]
 - (2) 600mm Cable
 - (2) 400mm Cable
 - (3) 300mm Cable
 - (2) 200mm Cable
 - (1) USB A-C Cable [269-6961]
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Structure

- (5) 1x2 Beam [228-5573-001]
- (6) 1x3 Beam [228-5573-002]
- (7) 1x4 Beam [228-5573-003]
- (8) 1x5 Beam [228-5573-004]
- (6) 1x6 Beam [228-5573-005]
- (4) 1x7 Beam [228-5573-006]
- (8) 1x8 Beam [228-5573-007]
- (4) 1x9 Beam [228-5573-008]
- (6) 1x10 Beam [228-5573-009]
- (2) 1x11 Beam [228-5573-010]
- (4) 1x12 Beam [228-5573-011]
- (2) 1x13 Beam [228-5573-012]
- (2) 1x14 Beam [228-5573-013]
- (4) 1x16 Beam [228-5573-014]
- (2) 1x18 Beam [228-5573-015]
- (2) 1x20 Beam [228-5573-016]
- (5) 2x2 Beam [228-3944-017]
- (4) 2x3 Beam [228-3944-018]
- (6) 2x4 Beam [228-3944-019]
- (4) 2x5 Beam [228-3944-020]
- (6) 2x6 Beam [228-3944-021]
- (6) 2x7 Beam [228-3944-022]
- (6) 2x8 Beam [228-3944-023]
- (2) 2x9 Beam [228-3944-024]
- (4) 2x10 Beam [228-3944-025]
- (10) 2x12 Beam [228-3944-026]
- (2) 2x14 Beam [228-3944-027]
- (4) 2x16 Beam [228-3944-028]
- (2) 2x18 Beam [228-3944-029]
- (8) 2x20 Beam [228-3944-030]
- (2) 3x3 Plate [228-3616-031]
- (4) 3x4 Plate [228-3616-032]
- (4) 3x6 Plate [228-3616-034]
- (2) 3x10 Plate [228-3616-036]
- (4) 3x16 Plate [228-3616-038]
- (4) 4x4 Plate [228-3616-040]
- (2) 4x8 Plate [228-3616-043]
- (221) 1x1 Connector Pin [228-3196-060]
- (53) 1x2 Connector Pin [228-5573-061]
- (21) 2x2 Connector Pin [228-3616-062]
- (11) 0.25x Pitch Standoff [228-3943-063]
- (13) 0.5x Pitch Standoff [228-3201-064]
- (13) 1x Pitch Standoff [228-3201-065]
- (15) 2x Pitch Standoff [228-3201-067]
- (5) 4x Pitch Standoff [228-3201-070]
- (6) 6x Pitch Standoff [228-3201-072]
- (7) 1x1 Idler Pin [228-3446-073]
- (6) 2x Pitch Plastic Motor Shaft [228-3446-078]
- (6) 4x Pitch Plastic Motor Shaft [228-5579-079]
- (6) 3x Pitch Capped Plastic Shaft [228-3944-081]
- (4) 5x Pitch Capped Plastic Shaft [228-3616-083]
- (7) 0x2 Idler Pin [228-5579-084]
- (22) 0x2 Connector Pin [228-3944-086]
- (21) 0x3 Connector Pin [228-3616-087]
- (6) 3x Pitch Plastic Motor Shaft [228-3196-094]
- (50) 0x1 Sheet Pin [228-3943-099]
- (11) 0.5x Pitch Standoff Extender [228-3201-109]
- (24) Washer [228-3944-112]
- (28) 0.25x Pitch Spacer [228-3201-114]
- (2) 4x Pitch Shaft [228-2500-120]
- (4) 6x Pitch Shaft [228-2500-122]
- (6) Large Chassis Corner Connector [228-3943-126]
- (15) Small Chassis Corner Connector [228-3943-127]

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- (11) 2x Wide, 1x2 Corner Connector [228-3943-128]
- (9) 1x Wide, 1x1 Corner Connector [228-3943-129]
- (13) 1x Wide, 1x1 Offset Corner Connector [228-943-130]
- (4) 2x Wide, 2x1 Offset Corner Connector [228-3943-131]
- (5) 2x Wide, 2x1 Corner Connector [228-3943-132]
- (3) 2x Wide, 1x1 Offset Corner Connector [228-3943-133]
- (10) 2x Wide, 2x2 Corner Connector [228-3943-134]
- (8) 2x Wide, 1x2 Offset Corner Connector [228-3943-135]
- (4) 2x Wide, 2x2 Offset Corner Connector [228-3943-136]
- (4) 2x Wide, 3x2 Corner Connector [228-3943-137]
- (32) Rubber Shaft Collar [228-2500-143]
- (4) 3x4 Tee Beam [228-3196-144]
- (5) 2x3 Right Angle Beam [228-3196-145]
- (4) 3x3 Right Angle Beam [228-3196-146]
- (4) 3x3 30 Degree Angle Beam [228-3446-147]
- (4) 3x3 45 Degree Angle Beam [228-3196-148]
- (4) 3x3 60 Degree Angle Beam [228-5579-149]
- (4) 3x5 Right Angle Beam [228-3196-150]
- (4) 4x4 Offset Right Angle Beam [228-3196-151]
- (10) 1x1 Beam [228-5573-154]
- (3) Rubber Band Anchor [228-3196-157]
- (11) Cable Anchor [228-3201-158]
- (13) Mini Standoff Connector [228-3196-170]
- (12) Straight Standoff Connector [228-3196-171]
- (9) End Standoff Connector [228-3196-172]
- (10) 45 Degree Standoff Connector [228-3196-175]
- (9) 90 Degree Standoff Connector [228-3196-178]
- (4) 2x11 Beam [228-3944-206]
- (2) Tire (200 mm Travel) [228-3201-209]
- (16) 12 Tooth Gear [228-3196-213]
- (6) 36 Tooth Gear [228-3196-214]
- (2) 60 Tooth Gear [228-3196-215]
- (2) Worm Gear [228-3196-219]
- (2) Double 2x Wide, 2x2 Corner Connector [228-3943-220]
- (8) 24 Tooth Gear [228-3196-227]
- (4) 48 Tooth Gear [228-3196-228]
- (113) Chain Link [228-3616-230]
- (160) Tank Tread Attachment Link [228-3616-231]
- (8) 8 Tooth Sprocket [228-3446-232]
- (6) 16 Tooth Sprocket [228-3446-233]
- (6) 24 Tooth Sprocket [228-3446-235]
- (13) Traction Link [228-2878-239]
- (11) Short Intake Flap [228-2878-240]
- (10) Medium Intake Flap [228-2878-241]
- (8) Long Intake Flap [228-2878-242]
- (2) 1x4 Crank Arm with 23 Tooth Gear [228-3196-246]
- (8) 12t Hybrid Gear [228-3196-250]
- (6) 24t Hybrid Gear [228-3196-251]
- (6) 36t Hybrid Gear [228-3196-252]
- (2) 12x Pitch Shaft [228-2500-263]
- (8) Double 1x Wide, 1x1 Corner Connector [228-3943-270]
- (5) Double 2x Wide, 1x2 Corner Connector [228-3943-271]
- (8) Double 1x Wide, 2x1 Corner Connector [228-3943-272]
- (6) Double 2x Wide, 1x2 Offset Corner Connector [228-3943-274]
- (4) Double 2x Wide, 2x2 Double Offset Corner Connector [228-3943-277]
- (4) 1x Wide, 1x2 Corner Connector [228-3943-279]
- (4) 2x Wide, 1x3 Offset Corner Connector [228-3943-283]
- (5) 1x Pitch Plastic Motor Shaft [228-3446-328]
- (4) 2x Wide, 60 Degree Omni 1x2 Corner Connector [228-3943-368]
- (4) 2x Wide, 30 Degree Right 1x2 Corner Connector [228-3943-371]
- (4) 2x Wide, 30 Degree Left 1x2 Corner Connector [228-3943-372]
- (2) 1x1 Left Corner Beam [228-3944-391]
- (2) 1x1 Right Corner Beam [228-3616-392]
- (4) 2x1 Left Corner Beam [228-3944-400]
- (4) 2x1 Right Corner Beam [228-3616-401]
- (2) 2x2 Left Corner Beam [228-3944-406]
- (2) 2x2 Right Corner Beam [228-3616-407]
- (2) 2x1 Extended Left Corner Beam [228-3944-408]
- (2) 2x1 Extended Right Corner Beam [228-3616-409]
- (2) 2x2 Extended Left Corner Beam [228-3944-412]

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- (2) 2x2 Extended Right Corner Beam [228-3616-413]
- (2) 1x Wide Spool [228-3196-420]
- (2) 2x Wide Spool [228-3446-421]
- (2) 12x Pitch Rope [228-3201-430]
- (2) 24x Pitch Rope [228-3447-438]
- (1) 48x Pitch Rope [228-3943-442]
- (2) Silicone Rubber Band #32 [228-3446-468]
- (2) Silicone Rubber Band #117B [228-3446-470]
- (2) 6x2x2 Tee Beam [228-3196-478]
- (1) 2x8 Smooth Panel [228-3943-524]
- (8) 8x Pitch Standoff [228-3201-1061]
- (10) Truss Standoff Connector [228-3196-1109]
- (8) 1x6 (3-4-5 Triangle) Diagonal Offset Truss Beam [228-3196-1110]
- (2) 7x9x11 (6-8-10 Triangle) Truss Plate [228-3616-1117]
- (4) 1x3 Center Lock Beam [228-3196-1141]
- (2) 3x3 Wye Lock Beam [228-5579-1159]
- (6) 2x3 Delta Tee Beam [228-3446-1189]
- (6) 2x4x2 Double 60 Degree Beam [228-5579-1199]
- (2) Small Wheel Hub (44mm) [228-5573-1208]
- (3) 2x30 mm Square Silicone Band [228-3446-1225]
- (4) 2x4 Wedge Beam [228-3616-1240]
- (4) 3x5 Wedge Beam [228-3616-1245]
- (8) Triple 1x Wide, 1x1 Corner Connector [228-3943-1250]
- (8) Tripple 2x Wide, 2x2 Corner Connector [228-3943-1253]
- (2) 1x2 Left Chassis Corner Connector [228-3943-1254]
- (2) 1x2 Right Chassis Corner Connector [228-3943-1255]
- (4) Quad 2x Wide, 2x2 Corner Connector [228-3943-1258]
- (4) 2x Wide, 3x3 60 Degree Angle Beam [228-3196-1268]
- (4) Cam Follower [228-3446-1303]
- (2) Small 2x Pitch Drop Cam [228-3446-1305]
- (2) Large 1x Pitch Drop Cam [228-3446-1306]
- (2) 4x3 1x Offset Trapezoid Beam [228-3616-1357]
- (1) 6x Pitch Flywheel (75g) [228-7092-1402]
- (2) 16 Tooth Ratchet [228-5579-1407]
- (3) Short Low-Profile Pawl [228-5579-1411]
- (8) .5x Pitch Idler Pulley [228-3196-1413]
- (6) 1x6 Linear Motion Beam [228-5573-1457]
- (6) 1x8 Linear Motion Beam [228-5573-1459]
- (6) 2x Pitch Linear Motion Bracket [228-5573-1469]
- (4) 1x Pitch Linear Motion Bracket (Snap) [228-5573-1470]
- (8) 1x6 Continuous Linear Motion Rack Gear [228-3944-1473]
- (1) 2x Pitch Shock Absorber (Strong) [228-5654-480]
- (4) 2x2 30 Degree Beam [228-3446-1485]
- (4) 2x2 45 Degree Angle Beam [228-3196-1486]
- (5) 1x4 Low-Profile End Lock Beam [228-3196-1548]
- (4) 2x6x2 30 Degree Jogged Beam [228-3446-1556]
- (1) 2x Pitch Shock Absorber (Weak) [228-5654-1560]
- (4) 3x12 Girder Plate; 2x8 2x Offset Trapezoid [228-3616-1600]
- (16) Ball Pin Bushing [228-3446-1660]
- (2) 1x3 Ball Socket Linkage [228-3196-1664]
- (2) 1x4 Ball Socket Linkage [228-3196-1665]
- (8) 1x4 Single-Ended Ball Socket Beam [228-3196-1689]
- (10) 2x2 Center Offset Round Lock Beam [228-3196-1925]
- (4) 2x Wide, Ø32.2mm Diameter Hub [228-3944-1950]
- (2) 2x Wide, Ø48.5mm Diameter Hub [228-3943-1953]
- (4) 2x Wide, 3.5x Pitch Diameter Balloon Tire (Trapezoid Offroad Tread) [228-3201-1957]
- (2) 2x Wide, 5x Pitch Diameter Balloon Tire (Racing Slick Tread) [228-3201-1958]
- (2) Small Rubber Intake Belt [228-3201-1960]
- (1) Large Rubber Intake Belt [228-3201-1961]
- (3) 2x Pitch Capped Shaft [228-2500-2219]
- (3) 3x Pitch Capped Shaft [228-2500-2221]
- (3) 4x Pitch Capped Shaft [228-2500-2223]
- (2) 5x Pitch Capped Shaft [228-2500-2225]
- (4) 2x Pitch Motor Shaft [228-3446-2234]
- (4) 3x Pitch Motor Shaft [228-3196-2236]
- (4) 4x Pitch Motor Shaft [228-5579-2238]
- (2) 2x12 Plastic Sheet [228-2500-2710]
- (2) 6x6 Plastic Sheet [228-2500-2711]
- (2) 6x12 Plastic Sheet [228-2500-2712]
- (4) Omni Wheels [228-2536]
- (1) Pin Tool [228-4035]