KNO₃

Liquidation Sale

50% off FTC Retail or Best Offer
Email: kno3robotics@verizon.net

Actobotics, Rev Robotics, AndyMark, HiTech, Actuonix, Misumi, Motorola, Samsung, ZTE, and More

Over $10,000 worth of Merchandise

Sold in Bulk Categories as Described Below
Plus Cost to Ship
Field Perimeter & Tiles  
Retail New: $1100  
Sale: $500

- 1 - Field Perimeter 3 years Old
- Complete Set of Hardware
- 2 - Field 6 Panel Bags for Storing
- 36 - Soft Tiles
- 2 - Soft Tiles Carrying Bags

Not Feasible to Ship
Electronics

Retail/FTC Disc New: $425  
Sale: $200

- 6 – Used Logitech Gamepad F310 wired
- 2 – New Microsoft Xbox 360 Wired Controllers

- USB 2.0 OTG Cable Type B Male to Type A Female
  - 3 - Right Angle
  - 2 – Left Angle
  - 1 - Straight

- 2 - Plugable USB 2.0 2-Port High Speed Ultra Compact Hub/Splitters

- 4 – Used Battery Chargers
- 3 - TETRIX® 12-Volt Rechargeable 3,000 mAh NiMH Battery Packs Used
- 1 – REV Battery Charger
- Heavy Duty Servo Extensions New
  - 7 – 6”
  - 1 – 12”
  - 6 – 18”
  - 5 – 36”
  - 4 – 48”
  - 3 – 48” non-Heavy Duty
### Modern Robotics

<table>
<thead>
<tr>
<th>Item Type</th>
<th>Quantity</th>
<th>New/Used</th>
<th>Part Number</th>
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<tbody>
<tr>
<td>COLOR SENSOR</td>
<td>2</td>
<td>New</td>
<td>45-2018</td>
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<tr>
<td>Limit Switch Pack</td>
<td>1</td>
<td>New</td>
<td>45-2401</td>
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<tr>
<td>Range Sensors</td>
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<td>Used</td>
<td>45-2008</td>
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<tr>
<td>Optical Distance Sensor</td>
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<tr>
<td>Sensor Pigtail Kit</td>
<td>2</td>
<td>New</td>
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<tr>
<td>Core Motor Controller</td>
<td>3</td>
<td>Used/Used</td>
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<tr>
<td>Core Power Distribution</td>
<td>4</td>
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<td>Core Servo Controller</td>
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<tr>
<td>Core Legacy Module</td>
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<tr>
<td>Core Device Interface</td>
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### Adafruit

<table>
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<th>Item Type</th>
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<tr>
<td>ADS1015 12-Bit ADC</td>
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<td>New</td>
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<tr>
<td>Channel with Programmable Gain Amplifier</td>
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<tr>
<td>9-DOF Absolute Orientation IMU Fusion Breakout BNO055</td>
<td>1</td>
<td>New</td>
<td>4</td>
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<tr>
<td>Proximity/Light Sensor #46</td>
<td>2</td>
<td>New</td>
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</table>
Hi-Tech Servos

Retail/FTC Disc New: $1,170
Sale: $580

- 7 – New; 9 – Used Hitec HS-485HB
- 1 – New Hitec HS-77BB
- 2 – New Hitec HS645MG
- 2 – New; 2 – Used Hitec HS-785HB
- 5 – New; 8 – Used Hitec HS-755 MG
- 2 – New; 1 – Used Hitec HS-755 MG Increased Rotation
- 2 – New; 1 – Used Hitec HS-755 MG Continuous Rotation
- 1 – Used Hitec HS-805BB
- 1 – Used Hitec HS-422
- 1 – New Hitec HS-85MG

- 2 – Rev SRS Programmer 31-1108
- 2 – Servocity Manual Dual Servo Driver
Motors

Retail/FTC Disc New: $688
Sale: $250

- 2 – New; 2 – Used REV Core Hex Motors
- 13 – Used Neverest 40:1 Motors
- 2 – New; 2 – Used Neverest 3.7:1 Motors
- 2 – New; 3 – Used Neverest 20:1 Motors
- 2 – New; 2 – Used Neverest 60:1 Motors
- 4 – New; 16 – Mildly Used Motor Mounts Actobotics 555116
• 2 – Dark Sole Chain Breakers
• 12 ft New Koch #25 Chain
• Variety of Offset & Master Links
REV Cables etc

Retail/FTC Disc New: $250  
Sale: $125

- 7 – New Sensor Cable Adapter for Level Shifter
- 3 – 2packs 3 Pin JST (20,30,50) 31-1414
- 1 – XT30 Extension 31-1392
- 3 – Switch Cable & Bracket 31-1387
- 3 – Tamiya to XT30 Adapter 41-1382
- 5 – USB Retention Mount 41-1214
- 3 – Anderson PP to XT30 31-1385
- 16 – 4 Pin JST 12”
- 7 – Anderson to JST, 12cm 31-1384
- 1 – Grounding Strap 31-1269
Wheels

Retail/FTC Disc New: $1,100  
Sale: $550

- 1 set – New in box 4” Nexus 100mm Mecanum Wheels (SuperDroid TD-090100)
- 1 set – New 6mm hubs

Sale: $95

- 1 set – Never Used 4” HD AndyMark Mecanum Wheels

Sale: $110

- 25 - 4” Omni Wheel ServoCity 595671
- 5 – 3” Foam Wheel ServoCity 3TMD
- 39 – 2.5” Foam Wheel ServoCity 250TMD
- 2 – 2” Foam Wheel ServoCity 2TMD
- 8 – ServoCity Heavy Duty Wheels 595410
- 2 – UniHobby 38mm 1.5” Omni Wheels
- 2 – REV 60mm Omni Wheel 41-1160

Sale: $345
REV Bars

Retail/FTC Disc New: $198
Sale: $99

- 17 – 16.5” 15mm extrusion
- 15-20 13-15” 15mm extrusion
- 15 – 9-11” 15mm extrusion
- 12 - <8” 15mm extrusion

Actobotics Beams

Retail/FTC Disc New: $ 54
Sale: $28

- 2 – 7 Hole
- 2 – 9 Hole
- 3 - 11 Hole
- 4 – 13 Hole
- 2 – 21 Hole

- 1 - 25 Hole
- 3 – 33 Hole
- 3 – Plastic 11 Hole
- 2 – Plastic 21 Hole

- 5 – Racks for Gear Racks
### Actobotics Channels

<table>
<thead>
<tr>
<th>Channel Size</th>
<th>New</th>
<th>Used</th>
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<tbody>
<tr>
<td>3” channel</td>
<td>4</td>
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<tr>
<td>4” channel</td>
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<tr>
<td>4.5” channel</td>
<td>2</td>
<td>0</td>
</tr>
<tr>
<td>6” channel</td>
<td>5</td>
<td>2</td>
</tr>
<tr>
<td>7.5” channel</td>
<td>2</td>
<td>3</td>
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<tr>
<td>9” channel</td>
<td>4</td>
<td>3</td>
</tr>
<tr>
<td>10.5” channel</td>
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<td>2</td>
</tr>
<tr>
<td>12” channel</td>
<td>4</td>
<td>6</td>
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<tr>
<td>13.5” channel</td>
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<td>0</td>
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<tr>
<td>15” channel</td>
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<td>1</td>
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<tr>
<td>16.5” channel</td>
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<tr>
<td>18” channel</td>
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### Actobotics Flat Plates

<table>
<thead>
<tr>
<th>Plate Size</th>
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<th>Used</th>
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<tbody>
<tr>
<td>9 x 12”</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>4.5 x 12”</td>
<td>5</td>
<td></td>
</tr>
<tr>
<td>4.5 x 6”</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>1.5 x 12”</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>1.5 x 9”</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>1.5 x 6”</td>
<td>2</td>
<td></td>
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</tbody>
</table>
Actobotics D-Axle Shafts

Variety of Sizes 2” – 12”

Retail/FTC Disc New: $250  Sale: $125
Actobotics Various New Parts       Retail/FTC Disc New: $360   Sale: $180

- 65 - Pattern Mount G

- 2 - 90° Single Angle Short Pattern Bracket  585506
- 5 - 90° Single Angle Pattern Bracket  585424
- 4 - Flat Single Pattern Bracket  585468
- 2 - 90° Flat Pattern Bracket A  585628
- 1 - 3.75" x 1.5" Pattern Plate  585721
- 1 - 1.50" Aluminum Channel  585440
- 2 - Flat 0.770" Pattern Bracket C  585586
- 9 - 90° Angle Bracket  585532
Actobotics Various

- 2 - Swivel Hub 545364
- 12mm Hex Shaft Wheel Adaptor .250” Bore (2 pack)
- 2 - 2:1 Bevel Gear Set (1/4” Bore Pinion, 1/4” Bore Spur)
- 1 - 13 Tooth, 1/4” D-Bore, 20 Pitch, Shaft Mount Bevel Gear 615456
- 3 - 1/4” D-Bore Clamping Hub for Worm Gear 545307
- 1 - 6mm D-Bore to 1/4” Round Bore Stainless Steel Worm 615466
- 1 - 90° 0.770” Pattern Mount 545400
- V-Wheel Standoff B (4 pack) 633162
- 6-32 x 0.250” (1/4) Heavy Duty Linkage (12 pack) 585432
- Lightweight Linear Actuator Mounting Bracket 585428
- 1 - 1.5” 6-32 Thread, 1/4” OD Round Aluminum Standoffs (4 Pack) 633140
- 1 - 1.25” 6-32 Thread, 1/4” OD Round Aluminum Standoffs (4 Pack) 633134
- 1 - 1.25” 6-32 Thread, 1/4” OD Round Aluminum Standoffs (4 Pack) 633124
- 1 - .250” Set Screw D-Hubs (Tapped), 0.770” Pattern 545579
Servocity Screws 6/32

New in Bags Various Lengths:
- 3 - .1875” 632104
- 7 - .250” 632106
- 15 - .3125” 632108
- 12 - .375” 632110
- 7 - .5” 632114
- 5 - .6255” 632118
- 3 - .75” 632120
- 3 – 1.0” 632124
- 2 - .875” 632122
- 1 - 1.125” 632126
- 1 - 1.250” 632128

Plus loose screws as seen in black box

McMaster Carr Screws 6/32 Low Profile Machine Screws

1 - Nylon Socket Head Screws, 6-32 Thread Size, 1/4” Long Pack of 100  (95868A294)
1 - Nylon Socket Head Screws, 6-32 Thread Size, 3/8” Long Pack of 100  (95868A296)
1 - Black-Oxide Alloy Steel Socket Head Screw 6-32, 1/4” Long Pack of 100  (91251A144)

Low-Profile Socket Head Screw Black-Oxide, 6-32, 1/4” Long 92220A141
Low-Profile Socket Head Screw Black-Oxide, 6-32, 3/8” Long 92220A142
Low-Profile Socket Head Screw Black-Oxide, 6-32, 1/2” Long 92220A143

36 - Cone-Point Set Screws, 316 Stainless Steel, 10-32 Thread, 3/16” Long  (90778A351)
50 - Cone-Point Set Screws, 316 Stainless Steel, 10-32 Thread, 1/4” Long  (90778A356)
52 - Cone-Point Set Screws, 316 Stainless Steel, 10-32 Thread, 3/8” Long  (90778A362)
Servocity Pulley Belts and o-Rings; Special Timing Belts
Retail/FTC Disc New: $250  Sale: $125

Specialty belts from SDP/SI all XL
- 5-78XLxL037
- 8-94XLxL037
- 3-78XLxL037
- 4-140XLxL031
- 4-156XLxL031

O-Ring Belts 1/8 inch
- 4-3.5 inch
- 10-4.5 inch
- 9-5 inch
- 2-7 inch
- 4-7.5 inch
- 4-8 inch
- 3-9 inch

O-Ring Belts 1/8 inch
- 2-8 inch

Pulley Hubs
- 2-1 inch 615130
- 3-2 inch 615134
Actobotics Gears & Sprockets  Retail/FTC Disc New: $599  Sale: $299

GEARS: Aluminum 32 Pitch ½ inch bore
- 19-48T 615190
- 8-64T 615194
- 4-72T 615198
- 2-76T 615202
- 1-80T 615206
- 3-84T 615210

GEARS: Aluminum 32 Pitch 1 inch bore
- 19-4” 128T 615238

GEARS: Acetal 32 Pitch ½ inch bore
- 6-48T 615190

SPROCKETS: 1” bore .250” Pitch Hub
- 4-48T 615126
- 4-40T 615122

SPROCKETS: 1/2” bore .250” Pitch Hub
- 23-16T 615102
- 10-24T 615106
- 8-32T 615114
Standoffs in packs of 4
- 1-.250 inch 633164
- 20-1 inch 633130
- 2-1.32” 633136
- 10-1.75” 633144
- 10-3” 633150
- 15 loose- 2”
- 2 only- 3.5”

Set Screw D-Hubs
- 13-6mm bore 545578
- 16-.250” bore 545579

Winch Pulley
- 1- Servo Winch Pulley 56314
- 9-1.25” Winch Pulley 615468

Shaft Pinion Gear ¼” bore
- 2-16T 615242
- 1-24T 615250
- 2-32T 615254

Bevel Gear
- 1-24T ¼” bevel 615398

Servo Spline 25
- 1-32T 615310
Clamp Hubs

- 4- 1/4" D-Bore Clamping Hub for Hub Mount Bevel Gear 545309
- 4- .500" Hex Clamping Hub 545674

Servo Blocks & Parts

- 5- 24T Lightweight Hub Horns 525124
- 1- 24T Standard Hub Horn 525130
- 4- Standard Servo Plate B 575124
- 3- Large Servo Plate A 575116
- 2- Face Mount for Large Servo Plate A 575128
- 2- Side Tapped Pattern Mount A 545420
- 4- Large Hub Shaft ServoBlock™ (24T Spline) 637118
- 1- 1/2" Bore, Face Thru-Hole Pillow Block – Wide 535182
- 1- Servo Hub Shaft 525123

Various

- 4- Ball Bearing Idler Shaft 535194
- 8- 3/8" x 3/8" 90° X-Rail Bracket (2 pack) 585070
- 1- C1 Spline Actobotics Dual Servo Arm 525118
- 2- 1/4" Bore Side Tapped Pillow Block 535130
- 2- Bottom Tapped Pattern Mount B 545404
- 2- 90° Dual Side Mount B (2 pack) 585508
- 1- 90° Pattern Mount 585494
- 1- 3/8" X-Rail Gusset (2 Pack) 585071
- 1- 13 Tooth, 1/4" D-Bore, 20 Pitch, Shaft Mount Bevel Gear 615456
- 3- .375” Shafting and Tubing Spacers (12 pack) 633108
- 3- .250” Shafting and Tubing Spacers (12 pack) 633104
• 4- 3/8" ID x 7/8" OD Flanged Ball Bearing (2 pack) 535048

**Phones**

EBay Pricing Used: $390  
**Sale:** $250

**Motorola Moto G4 Play (4th Generation) 16GB Unlocked Smartphone**

![Motorola Moto G4 Play](image)

**Motorola Moto G5 XT1676 Dual Sim 5.0" 16GB 3GB RAM Gray**

![Motorola Moto G5](image)
ZTE Speed Black
4 Used

Samsung Galaxy 5

1 New
Keter Tool Boxes (Northern Tool)  
Retail New: $245  
Sale: $120

**Stackable!!**

- 7- Keter Cantilever-Style Organizer — 22in., Model# 17185073

**Not all boxes have a full set of yellow containers**
Pop-Up Tent (Black) & Black Curtains  
Retail New: $150  
Sale: $75

10x10 Straight Leg Heavy Duty Pop Up tent

Includes 9 Curtains for covering
VEX & VEX Pro Parts
Retail New: $600  Sale: $300

- 4- VersaPlanetary Lite
  VersaPlanetary Lite Base Kit, 1:1, Universal Female Output Shaft
  VersaPlanetary Lite Ring Gear
  VersaPlanetary 10:1 Gear Kit
- 2- 34T Aluminum Spur Gear (20 DP, Ball Shifter) 217-3219
- 2- 50T Aluminum Spur Gear (20 DP, Ball Shifter) 217-3219
- 4- 24T Aluminum Spur Gear (20 DP, 3/8" Hex Bore) 217-2703
- 2- 34T Aluminum Spur Gear (20 DP, 3/8" Hex Bore) 217-3211
- 2- 50T Aluminum Spur Gear (20 DP, 3/8" Hex Bore) 217-3571
- 2- 54T Aluminum Spur Gear (20 DP, 3/8" Hex Bore, VersaKeys) 217-3220
- 2- Ball Shifter Short Output Shaft v2 217-4099
- 4- 42T x 18mm Wide VersaPulley Kit (HTD 5mm, VersaKeys) 217-3199
- 5- VersaPlanetary 1/2" Hex Output Shaft 217-2897
- 14 New, 2 Used- 13.75mm 1/2" ID x 1.125" OD x 0.313" WD (Flanged Bearing) 217-4006
- 4- 24T x 9mm Wide Double Flange Aluminum Pulley (HTD 5mm, 1/2" Hex Bore) 217-3227
- 8- 10.25mm 3/8" ID x 0.875" OD x 0.280" WD (Flanged Bearing) 217-5829
- 2 - 0.750" ID x 1.375" OD x 0.437" WD (Flanged Bearing) 217-2789
- Various Spacers Some not pictured
- 10- 15T Sprockets ½" Hex bore
AndyMark Performance Wheels  
Retail New: $150  
Sale: $75

- 6- 4” Andymark performance ½” hex bore
Miscellaneous Stuff

Sale: Make an offer