

FTC Competition Kit

Brackets and Structural Elements

FTC Qty

Channel – 32 mm



4

Channel – 96 mm



2

Channel – 160 mm



2

Channel – 288 mm



4

Single-Servo Motor Bracket



2

Dual-Servo Motor Bracket



1

Flat Bracket



8

L Bracket



12

Servo Joint Pivot Bracket and Pivot Bearing



2

Flat Bar – 288mm



2

Angle – 144 mm



2

Angle – 288 mm		2
Flat Building Plate		2
Tube – 80 mm		2
Tube – 145 mm		2
Tube – 220 mm		2
Tube Plug		6
Tube Clamp		6

Servos and Motors		FTC Qty
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Servo with Horn		2
Servo Extension		2
Servo Y Connector		1
DC Drive Motor		2
Motor Mount		2

Motor Power Cable		2
Gear Hub Spacer		4
Bronze Bushing		12
Axle Set Collar		6

Wheels, Gears, Drive Train		FTC Qty
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Wheel- 3"		4
Omni- Wheel		2
Gear – 40-Tooth		2
Gear – 80-Tooth		2
Axle Hub		6
Motor Shaft Hub		2
Axle – 100 mm		6

Fasteners		FTC Qty
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Axle Spacer – 1/8"		12
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Axle Spacer – 3/8"		6
Kep Nut		200
Stand-Off Post – 1"		12
Stand-Off Post – 2"		12
Button Head Cap Screw (BHCS) – 3/8"		50
Socket Head Cap Screw (SHCS) – 1/2"		100
Socket Head Cap Screw (SHCS) – 5/16"		100
TETRIX Hard -Point Connector		12

Sensors, Controllers, and Batteries		FTC Qty
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LEGO® MINDSTORMS® Set including Intelligent Brick, sensors, motors, Technic building elements, and more		1
DC Rechargeable Battery		1
Transformer 10V DC		1
Rechargeable Battery Pack		1

NiMh Battery Pack Charger		1
HiTechnic DC Motor Controller		1
HiTechnic Servo Motor Controller		1
Logitech Gaming Controller		1
On/Off Switch		1
DC gearhead motor shaft encoders		2

Storage and Tools		FTC Qty
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Plastic Storage Bin with Snap-On Lid with Parts Summary		1
11" Zip Ties		12
Hex Key 4-Pack		1
Wrench Set		1
Pen Screwdriver		1

Resources		FTC Qty
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TETRIX Getting Started Guide		1
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