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### FTC STARTER KIT

SKU: REV-45-1270

\$600.00

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#### Description

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**FTC TEAMS: If you have registered with FIRST for the 2019-2020 Season, this same kit is available at lower subsidized price through the FTC Storefront. Additionally there is a discount code in the FTC Storefront if you wish to purchase additional kits through REV Robotics. You must enter that code at checkout to receive the discount. We can't retroactively apply this discount, it needs to be applied at the time of purchase.**

**The code can be found by logging into the primary contact's account at [www.firstinspires.org](http://www.firstinspires.org), clicking on "Payment and Product" then "Order Products" under team options, clicking "Support" in the upper right corner of the next page, and then clicking "How to Order Extra Parts" in the lower left of the next page.**

Over 1300 parts are included in this starter kit specifically created for FIRST Tech Challenge teams, providing exceptional robot design flexibility. The REV FTC Starter kit is the result of over 40 years of experience with FIRST robots, as well as loads of additional goodies from team members. Supported by extensive design examples and documentation, the parts in this kit will give your team a head start to a great season!

**Upgrades from 2017 Kit include:** 2 additional Smart Robot Servos, 3 more Aluminum Servo Horns, new Servo extension cables, and new metal Servo mounting brackets. 4 additional Hex Hub Strengtheners, 4 additional 420mm Extension sections, and upgraded metal brackets. 2 of each type of motor plus upgraded metal motor mounts. New 50mm M3 screws, 30mm Traction Wheels, and a heavy-duty storage bin!

#### KIT OVERVIEW:

- 2 Core Hex Motors, 2 40:1 HD Hex Motors
- 4 Smart Robot Servos, SR8 Programmer, 4 Metal Servo Horns and other Servo attachments
- Over 3 Inches of Extension
- Multiple wheel options (Omni, traction, intake)
- 32 Gears, 7 Different Sizes
- 10 Sprockets, 3 Different Sizes
- 196 Brackets
- 50 Bearings
- 600 Fasteners
- Motor and Servo power/data cables
- Servo Robot Battery and Charger
- All tools needed to assemble your robot
- Heavy-Duty storage bin

#### KIT CONTENTS:

Download a [Short Parts List](#)

#### Motors:

- QTY 2 - Core Hex Motor w/cables (REV-41-1300)
- QTY 2 - 40:1 HD Hex Motor w/cables (REV-41-1301)
- QTY 4 - Metal Bore Core Hex Motor Bracket V2 (1 pack of REV-41-1433)
- QTY 4 - Metal Bore HD Hex Motor Bracket V2 (1 pack of REV-41-1437)

#### Servos and Accessories:

- QTY 4 - Smart Robot Servo (REV-41-1307)
- QTY 1 - SR8 Programmer (REV-31-1108)
- QTY 4 - Metal Bore Servo Bracket V2 (1 pack of REV-41-1438)
- QTY 2 - Bracket, Servo (1 pack of REV-41-1315)
- QTY 4 - 3P PWM Cable (1 pack of REV-11-1150)
- QTY 4 - Aluminum Servo Horn (REV-41-1350)
- QTY 4 - Servo Gear Adapter (1 pack of REV-41-1364)
- QTY 4 - Servo Shaft Adapter (1 pack of REV-41-1326)

#### Wheels:

- QTY 2 - Omni Wheel, 50mm (1 pack of REV-41-1190)
- QTY 6 - Traction Wheel, 60mm (3 packs of REV-41-1354)
- QTY 4 - Traction Wheel, 50mm (1 pack of REV-41-1355)

#### Structure:

- QTY 4 - Extension, 150mm, 45-45 Degree (2 packs of REV-41-1430)
- QTY 8 - Extension, 225mm, 90-90 Degree (2 packs of REV-41-1431)
- QTY 16 - Extension, 420mm, 90-90 Degree (4 packs of REV-41-1432)

#### Structure Brackets:

- QTY 8 - Bracket, 30 Degree (1 pack of REV-41-1308)
- QTY 8 - Bracket, 45 Degree (1 pack of REV-41-1307)
- QTY 8 - Bracket, 60 Degree (1 pack of REV-41-1306)
- QTY 16 - Bracket, 30 Degree (2 packs of REV-41-1306)
- QTY 16 - Metal 90 Degree Bracket V2 (2 packs of REV-41-1440)
- QTY 6 - Bracket, TSD Degree (1 pack of REV-41-1311)
- QTY 4 - Bracket, Adjustable Angle (1 pack of REV-41-1315)
- QTY 32 - Bracket, Inside Corner (4 packs of REV-41-1320)
- QTY 16 - Bracket, Lap Corner (2 packs of REV-41-1321)

#### Gears:

- QTY 8 - Gear, 13T (1 pack of REV-41-1331)
- QTY 4 - GEAR, 30T (1 pack of REV-41-1332)
- QTY 4 - GEAR, 45T (1 pack of REV-41-1334)
- QTY 4 - Gear, 60T (1 pack of REV-41-1335)
- QTY 4 - Gear, 72T (1 pack of REV-41-1336)
- QTY 6 - Gear, 80T (3 packs of REV-41-1337)
- QTY 2 - Gear, 120T (1 pack of REV-41-1338)

#### Sprockets and Chain:

- QTY 4 - Sprocket, #20, 10T (1 pack of REV-41-1339)
- QTY 4 - Sprocket, #20, 30T (1 pack of REV-41-1340)
- QTY 2 - Sprocket, #20, 40T (1 pack of REV-41-1343)
- QTY 1 - Chain, #20 10R (REV-41-1365)
- QTY 5 - #40 Kevlar Link (1 pack of REV-41-1366)

#### Motion:

- QTY 8 - High Strength Hex Hub (4 packs of REV-41-1147)
- QTY 16 - Bracket, Motor (2 packs of REV-41-1303)
- QTY 8 - Bracket, Rod End (1 pack of REV-41-1304)
- QTY 4 - Bracket, Inducible Motion (1 pack of REV-41-1313)
- QTY 4 - Bracket, Cassette Motion (1 pack of REV-41-1315)
- QTY 4 - Bracket, Hex Pinion Block (1 pack of REV-41-1316)
- QTY 32 - Bracket, Bearing Pinion Block (4 packs of REV-41-1317)
- QTY 32 - Bearing, End Cap (4 packs of REV-41-1322)
- QTY 12 - Bearing, Through Bore Shaft (1 pack of REV-41-1326)
- QTY 24 - Bearing, Through Bore Long (2 packs of REV-41-1328)
- QTY 12 - Shaft, 5mm Hex, 75mm (3 packs of REV-41-1347)
- QTY 4 - Shaft, 5mm Hex, 135mm (1 pack of REV-41-1349)
- QTY 4 - Shaft, 5mm Hex, 400mm (1 pack of REV-41-1362)
- QTY 24 - Spacer, 16mm (2 packs of REV-41-1323)
- QTY 32 - Spacer, 5mm (2 packs of REV-41-1324)
- QTY 28 - Spacer, 1.5mm (1 pack of REV-41-1325)
- QTY 30 - Shaft Covers (3 packs of REV-41-1327)

#### Battery:

- QTY 1 - 8Ah Battery, 3000mAh (REV-31-1302)
- QTY 1 - Battery Charger (REV-31-1259)
- QTY 2 - Battery Holder Plate (1 pack of REV-41-1166)

#### Tools:

- QTY 1 - Nut Driver, 5.5mm (REV-41-1119)
- QTY 1 - Wrench, Combination, 5.5mm (REV-41-1374)
- QTY 1 - Allen Wrench, 1.5mm (REV-41-1376)
- QTY 1 - Heavy-duty Plastic Storage Bin

#### Fasteners and Hardware:

- QTY 50 - Zip-Ties, 600mm (1 pack of REV-41-1161)
- QTY 1 - Thin Surgical Taping, 3m (REV-41-1163)
- QTY 100 - Screw, Dupin, M3 (1 pack of REV-41-1167)
- QTY 200 - Screw, Hex Cap, M3, 5mm (2 packs of REV-41-1359)
- QTY 100 - Screw, Hex Cap, M3, 16mm (1 pack of REV-41-1360)
- QTY 50 - Screw, Hex Cap, M3, 35mm (1 pack of REV-41-1125)
- QTY 500 - Nut, Locking, M3 (2 packs of REV-41-1161)

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