



























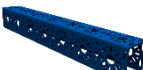


























This kit contains over 1,450 individual pieces. Please ensure you are familiar with the contents.

You can find training material, CAD files, support material, and software libraries needed to get started on our resources site at <https://www.studica.co/resources-4>


Parts List

Description	Part #	Image	# In Pack	Packs In Kit	Total #
Electronics and Accessories					
IR Range Sensor (10 cm to 80 cm)	40117		1	1	1
IR Range Sensor Bracket	40118		1	1	1
Zip Ties, Blue, 150mm (100 pack)	70010		100	1	100
12V 3,000 mAh NiMH Battery Pack, PP45	70018		1	1	1
NiMH Battery Pack Charger, PP45	70019		1	1	1
Powerpole 45 Extension Cable, 14AWG, 50cm	70021		1	1	1
Robotics Toolbox	70055		1	1	1
Remote Controller - Bluetooth	70111		1	1	1
2.5mm Hex Ball End Screwdriver	70142		1	1	1
Hex Key Metric 7 Piece Set (1.5, 2, 2.5, 3, 4, 5, 6)	70144-7		1	1	1
Combination Wrench, 5.5mm	70145		1	1	1
Cobra Line Follower Sensor	70151		1	1	1
Titan Quad Motor Controller	70152		1	1	1
VMX Wire Pack	70160		1	1	1
Titan Cable Pack w/1 CAN Cable & 2 JST-VH to JST-VH Cable	70162		1	1	1

Power Control Panel	70170		1	1	1
VMX Robotics Controller	70176		1	1	1
USB Cable, Type A to Type C, Blue, 2M	70186		1	1	1
Analog Module w/JST-SH to JST-GH Cable	70755		1	1	1
PWM cable Set - TJC8 3 pin, 22AWG, F-F - 12 pcs	71011		12	1	12
Dupont Single Pin, 4 wire, F-F Cable - 2 pack	71014		2	1	2
3D Depth Camera	71044		1	1	1
Short Lever Limit Switch (4 pack)	72060		4	1	4
Maverick 12V DC Gear Motor w/Encoder	75001		1	2	2
Multi-Mode Smart Servo	75002		1	3	3
Smart Robot Servo Programmer	75003		1	1	1
6V DC AA Battery Holder w/TJC8 Female, 22AWG	75004		1	1	1
Servo Power Block	75006		1	1	1
U-Channel					
336mm U-Channel	76012		1	2	2
288mm U-Channel (2 pack)	76013-2		2	1	2
192mm U-Channel	76015		1	2	2
144mm U-Channel (2 pack)	76016-2		2	1	2
96mm U-Channel (2 pack)	76017-2		2	1	2
48mm U-Channel (2 pack)	76018-2		2	2	4
288mm Low U-Channel (2 pack)	76028-2		2	1	2

Flat Beams					
288mm Flat Beam (2 pack)	76043-2		2	2	4
96mm Flat Beam (2 pack)	76047-2		2	2	4
Flat Brackets					
288mm x 40mm Flat Bracket (2 pack)	76061-2		2	1	2
192mm x 40mm Flat Bracket (2 pack)	76063-2		2	1	2
144mm x 40mm Flat Bracket (2 pack)	76064-2		2	1	2
96mm x 40mm Flat Bracket (2 pack)	76065-2		2	1	2
192mm x 96mm Flat Bracket (2 pack)	76066-2		2	1	2
Irregular Brackets					
96mm Adjustable Flat Bracket (2 pack)	76083-2		2	1	2
Inside U Bracket (2 pack)	76086-2		2	2	4
L Bracket (2 pack)	76087-2		2	3	6
Battery Clip (2 pack)	76088-2		2	1	2
Inside L Bracket (2 pack)	76089-2		2	2	4
Mounting Plates					
Motor Mount Plate	76140		1	2	2
Motor Mount Clamp Kit	76141		1	2	2
End Piece Plate (2 pack)	76143-2		2	3	6
Servo Standard Front Mount	76144		1	3	3
Servo Mount Flat Plate	76145		1	3	3
Servo Mount Offset Plate	76146		1	3	3

Servo Horn 25T	76148		1	3	3
6mm D-Shaft Servo Hub 25T	76149		1	3	3
Axles, Slides, Rack & Pinion					
6mm x 35mm D-Shaft (6 pack)	76159-6		6	1	6
6mm x 70mm D-Shaft (6 pack)	76160-6		6	1	6
6mm x 96mm D-Shaft (6 pack)	76161-6		6	1	6
6mm x 432mm D-Shaft (2 pack)	76162-2		2	1	2
Rack & Pinion Set	76170		1	2	2
Standoffs					
42mm Standoff (12 pack)	76180-12		12	1	12
48mm Standoff (12 pack)	76181-12		12	1	12
25mm Standoff (12 pack)	76182-12		12	1	12
Screws, Nuts					
M3 x 8mm Socket Head Cap Screw (pack of 100)	76200-100		100	2	200
M3 x 10mm Socket Head Cap Screw (pack of 100)	76201-100		100	2	200
M3 x 12mm Socket Head Cap Screw (pack of 100)	76202-100		100	2	200
M3 x 10mm Button Head Cap Screw (pack of 50)	76203-50		50	1	50
M3 x 20mm Socket Head Cap Screw (pack of 50)	76209-50		50	1	50
M3 x 30mm Socket Head Cap Screw (pack of 50)	76206-50		50	1	50
M3 Kep Nut (pack of 100)	76204-100		100	2	200
M3 Nyloc Nut (pack of 100)	76205-100		100	1	100
Gears, Sprockets, Pulleys, Belts					
32 Tooth Gear (2 pack)	76220-2		2	2	4

64 Tooth Gear (2 pack)	76221-2		2	2	4
6mm Timing Pulley, 10 Tooth (2 pack)	76232-2		2	1	2
10mm Timing Belt (1 meter)	76233		1	1	1
Bushings, Bearings, Coupling, Collars and Spacers					
6mm Shaft Hub (4 pack)	76284-4		4	2	8
Bushing Bronze 6mm ID x 8mm OD (12 pack)	76300-12		12	1	12
Bushing Bronze 6mm ID x 14mm OD (12 pack)	76301-12		12	1	12
Flange Bearing 6mm ID, 14mm OD, 15mm Flange (12 pack)	76302		12	1	12
Coupling 6mm ID D-Shaft, 12mm OD (2 pack)	76303-2		2	2	4
Collar 6mm ID D-Shaft, 12mm OD (6 pack)	76304-6		6	2	12
Shaft Spacer Plastic 6mm ID x 10mm OD x 1mm L (24 pack)	76305-24		24	1	24
Shaft Spacer Plastic 6mm ID x 10mm OD x 2mm L (24 pack)	76306-24		24	1	24
Shaft Spacer Plastic 6mm ID x 10mm OD x 5mm L (12 pack)	76307-12		12	1	12
Shaft Spacer Plastic 6mm ID x 10mm OD x 20mm L (6 pack)	76308-6		6	1	6
Wheels					
Omni Wheel (100mm, Double Plastic, w/ integrated 6mm Hub)	76260		1	2	2
100mm Drive Wheel – 25mm Thick, 50A Durometer	76262		1	2	2