

BOM Thumbnails

Thumbnails exported from SOLIDWORKS model v3.0 on 08.12.2025

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Notes:


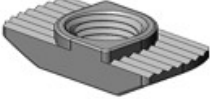




Use this table ONLY for visual key of the chassis components as reflected in the CAD model




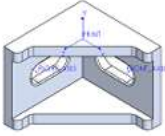




This list is NOT sufficient to build the SCUTTLE robot. The solidworks model omits wires, crimped ferrules, etc



Produce this list by exporting SOLIDWORKS bill of materials to spreadsheet - minimal edits in excel


PART NUMBER column reflects metadata from individual .sldprt files

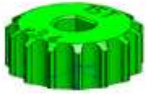

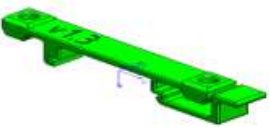



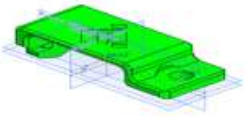

QTY column reflects counted parts from .sldasm file, which does not perfectly reflect BUILT-AS condition




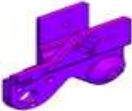
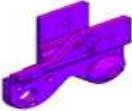



DOCUMENT PREVIEW	ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
	3	screw_m6x12 ph	Screw, M6x12mm, Pan Head, Phillips	22
	4	12mm	Nut, M6, drop-in	18
	5	washer, lock M6	M6 Washer	6
	26	screw_10mm	Screw, M3 x 10mm, Countersunk, Philips	6
	48	10mm	Screw, M2.5 x 10mm, Countersunk, Zinc Plated Steel, OTS	6
	33	Insert_3.4mm	Threaded Insert, M2.5 x 3.4mm, brass	5


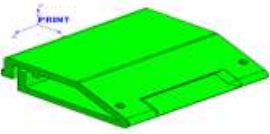
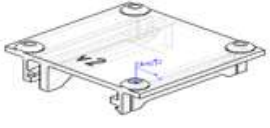

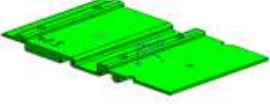
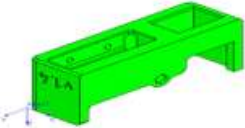


	41	6mm	Screw, M2.5 x 6mm, Pan Head, Phillips	5
	51	insert_3.4mm	Threaded Insert, M2.5x6mm, Brass, OTS	5
	1	extrusion	Extrusion, 30 x 30 mm, OTS	4
	2	bracket_90	Bracket, Aluminum, 3030, right-angle	4
	7	endCap v2	End-cap, 3030 Extrusion, Plastic	4
	13	screw_m2.5	Screw, M2.5x6, Self-tapping, Phillips	4
	14	6mm	Screw, M2.5x6mm, Pan Head, Phillips	4
	16	bearing608zz	Bearing, 608 Spec, 8mm ID	4







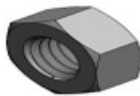

	21	6000N115	T-Slotted Framing Fasteners	4
	27	insert	Threaded Insert, M2.5x6mm, Brass, OTS	4
	32	6mm	Screw, M2.5 x 6mm, Pan head, phillips	4
	35	pinHeader	Header Pins, Male, dupont, 2.54mm pitch	3
	47	cell	Battery Cell 18650 3000mAh	3
	6	caster v2	Caster, 51mm (2 inch), 70mm height	2
	10	locknut_M8	Nut, M8, Steel, locknut, nylon	2
	11	encBrkV3	Encoder Mounting Bracket, 3D Printed, Symmetric RL	2

	12	encoder	Encoder, AS5048B, magnetic rotary position	2
	15	wheel	Wheel, 83mm, urethane, 608 bearing	2
	17	wheelPulley_v3	Pulley HTD5, 30 tooth, 3D Printed	2
	18	whlSpcr_v2	Wheel Spacer, 3D Printed	2
	19	100mm	Screw, M8x100, Alloy Steel, Socket Head	2
	20	m8 washer	M8 Flat Washer	2
	22	belt 5M245	Belt, reinforced rubber, 245mm pitch length, 5mm Pitch	2
	23	motor v1	Gearmotor, 12v DC, 300 rpm, 6mm shaft	2

	24	mtrPulley_v3	Wheel Pulley v3, 15 teeth, 3D Printed	2
	25	magnet	Magnet, 6mm, diametrically opposed	2
	31	piBracketDIN_v1	DIN bracket with snap compliance	2
	37	screw_m2.5_course	Screw, M2.5 x 6mm, self-tapping	2
	49	Anderson	Housing, Anderson, model PP15/45, OTS	2
	50	Anderson	Housing, Anderson, model PP15/45, OTS	2
	52	dinBracket_v1	DIN bracket, to extrusion, 3D Printed	2
	53	DIN_Terminal	Terminal, screw-type, 16-22awg	2

	54	DIN_Terminal	Terminal, screw-type, 16-22awg	2
	55	DIN_jumper	Jumper for DIN terminals, 2 pin	2
	8	kickStand_v1	Kickstand, 3D Printed, 75mm height	1
	9	wheelBrkt_v2	Wheel Bracket, 3D Printed, Left-hand	1
	28	wheelBrkt_v2	Wheel Bracket, 3D Printed, Left-hand	1
	29	DIN_rail	DIN rail, steel, 35mm wide	1
	30	Ras Pi 3B+	Raspberry Pi, 3B+	1
	34	circuitBoardi2c v1	PCB, scuttle i2c distribution bus	1

	36	pinHeaderBend	Header Pins, Male, dupont, 2.54mm pitch	1
	38	i2cBracket_v3	i2c DIN Bracket, standard, 3D Printed	1
	39	motorDriverBracket_v2	DIN bracket with snap compliance	1
	40	motorDriver	Motor Driver, 2-channel	1
	42	batteryBracket	DIN bracket with snap compliance	1
	43	batteryPanel	Battery Panel for switch & terminals, 3D Printable	1
	44	tray	Battery Tray 18650, 3-cell, OTS	1
	45	switch	DC Switch, 10A, with Quick Connect terminals, OTS	1

	46	spring	Spring Retainer, 1.8mm diam, paperclip, OTS	1
	56	twistBracket_v3	Twist Bracket, for extrusion, 3D Printed	1
	57	cameraJoint	Dovetail Bracket, with GoPro pivot, 3D Printed	1
	58	cameraBracket_v3	Camera Bracket, 3D Printed	1
	59	camera	Camera, USB, 720p, square, 120 FOV, industrial	1
	60	screw_20mm	Passivated 18-8 Stainless Steel Pan Head Phillips Screws	1
	61	nut_m5	Nut, M5, hex, steel	1
	62	adapter_5v	SCUTTLE 5v adapter top iso view	1