

Groups	Mounting Steps	Video tutorial + Photo reference	Reference	Description	Quantity	Size	Comments
BADDY Structure	1			Baddy box	5		5 units of glued wood or plexiglass
			BADDY BOX PL3 001	Box front	1		
			BADDY BOX PL6 002	Box top	1		
			BADDY BOX PL3 003	Box bottom	1		
			BADDY BOX PL3 004	Box lid	1		
			BADDY BOX PL6 005	Box tube magnet cap	1		
	2			Baddy feeder	3		
			BADDY TUB PL3 006	Tube	1		Transparent tube diameter : 80 / 74mm ; height : 61 cm
			BADDY TUB PL6 007	Tube lower collar	1		
			BADDY TUB PL6 008	Tube upper collar	1		
				Feeder screw	3	M6X18	3 Chc screws with collar 6
	3			Baddy frame	4		4 glued units
			BADDY FRA PL3 009	Frame lower board	1		
			BADDY FRA PL6 010	Frame right side	1		
			BADDY FRA PL3 011	Frame left side	1		
			BADDY FRA PL3 012	Frame upper board	1		In wood
	4			Baddy Firebox	22		22 glued units
			BADDY CHA PL3 013	Firebox right side	1		
			BADDY CHA PL3 014	Firebox left side	1		
			BADDY CHA PL3 015	Firebox front assembly cleat	1		
			BADDY CHA PL3 016	Firebox back cleat	2		
			BADDY CHA PL3 017	Firebox upper board	1		
			BADDY CHA PL3 018	Firebox magnet board	1		
			BADDY CHA PL3 019	Firebox second right side	1		
			BADDY CHA PL3 020	Firebox second left side	1		
			BADDY CHA PL6 021	Firebox upper retainer neck	1		
			BADDY CHA PL3 022	Firebox lower retainer neck	1		
			BADDY CHA PL3 023	Firebox flange	4		
			BADDY CHA PL3 024	Firebox wing	2		
			BADDY CHA PL3 025	Firebox servo-motor board	1		
			BADDY CHA PL3 026	Firebox spacer	2		
			BADDY CHA PL3 027	Firebox servo-motor support	1		
			BADDY CHA PL3 028	Firebox shuttle holder	1		
	5			Baddy shuttle retainer	6		3 glued units
			BADDY CHA PL3 029	Firebox retainer	2		1 added part
			BADDY CHA PL3 030	Firebox right arm	2		1 added part
			BADDY CHA PL6 031	Firebox left arm	2		1 added part
	6			Baddy shuttle switch	3		3 glued units
			BADDY CHA PL3 032	Firebox central switch	1		
			BADDY CHA PL3 033	Firebox side switch	2		
	7			Front foot	6		6 glued units
			BADDY FRA PL6 034	Baddy frame front foot	4		
			BADDY FRA PL6 035	Baddy frame front foot cleat	2		
				Rear foot	5		4 glued units
			BADDY FRA PL6 036	Baddy frame rear foot	2		
			BADDY FRA PL6 037	Baddy frame rear foot cleat	2		
			BADDY FRA PL6 038	Baddy frame rear foot washer	1		Thickness : 6 cm

End of glued operations						
Electronics + Motors	8		BADDY FRA 3D8 039	Tripod holder	1	3D unit
				Tripod holder bolt	2	M3x12 2 countersunk head screws + 2nylstop nuts
			BADDY CHA ELE 040	Switch and retainer servo-motors	2	H-KING HK 15298
	9			Servo-motor bolt	8	M2,5x12 8 Chc screws + 8 nylstop nuts
			BADDY FRA ELE 041	Motors	2	5,5V / 3A with ESC, beam and donkey
				Motor bolt	8	M4x20 8 Chc screws + 8 nylstop nuts
	10			Rubber washer	16	4 – 9 16 ruber washers
				Washer	16	4 – 10 16 washers
			BADDY BOX ELE 042	PCB 6 8X8 display beam (Led Square)	1	8X8 display – PCB card + 5 pinheader beam
	11		BADDY BOX WO3 043	Baddy identity plate	1	Fixed on Baddy box with 8X8 display
				8x8 display spacer	2	3 – 7 – 6 2 spacers length : 6
				8x8 display bolt	2	M3x20 2 Chc screws + 2 nylstop nuts
	12			Electronic card	3	2 units to pin on 1 Baddy PCB
			BADDY FRA ELE 044	PCB card	1	
			BADDY FRA ELE 045	Nano Arduino	1	Pin on PCB card
			BADDY FRA ELE 046	Bluetooth card	1	Pin on PCB card
				Electronic card spacer	2	3 - 7 - 8 2 spacers length : 6
				Electronic card bolt	2	M3x16 2 Chc screws + 2 nylstop nuts
	13		BADDY FRA ELE 047	Switch on/off	1	1 unit to clip on Baddy lower frame
	14		BADDY FRA ELE 048	Battery block	1	PM-12V 6800mAh-CLIB ; battery beam to plug with main beam
	15		BADDY FRA ELE 049	Main electric beam	1	Motors - switch on/off – battery block
	16			Assembly shuttle Firebox on Baddy frame front bolt	1	M4x20 1 Chc screw + 1 nylstop nut + 1 washer
Note: motor wire and servo-motors shall be wired to PCB Battery shall be connected to electric beam						
Important: Before going to next step, please power on to initialize servo-motors position						
Internal parts assembly	17			Pulley on servo-motor	2	Pulleys provided with servo-motors (drill 4 holes : 2 mm)
				Shuttle switch pulley bolt	4	M2x8 4 Chc screws + 4 nylstop nuts
				Shuttle retainer pulley bolt	4	M2x8 4 Chc screws + 4 nylstop nuts
				Shuttle retainer bolt on shuttle Firebox	1	M3x16 1 Chc screw + 1 nylstop nut + 3 washers
				Pulley on servo-motor screw	2	M3X7 Provided with servo-motors
	18		BADDY FRA ELE 050	Baddy wheel hub	2	Assembly on wheels
				Wheel hub bolt	8	M3X10 8 Chc screws + 8 nylstop nuts
			BADDY FRA ELE 051	Baddy wheel	2	Assembly on motors (allen key provided with the hub)
External parts assembly	19		BADDY BOX MAG 052	Magnet	3	Power : 10 daN
	20			Assembly shuttle Firebox on Baddy box bolt	4	M3x25 4 Chc screws + 4 nylstop nuts
	21			Assembly Baddy frame on Baddy box bolt	4	M4x12 4 Chc screws + 4 nylstop nuts
Connection 8X8 Led Square (Display Beam) to electronic card						
End of assembly Baddy frame on Baddy box						
External parts assembly	22			Lid	1	Assembly on shuttle firebox closing the Baddybox
				Rear lid pinched nut	2	2 pinched nuts
				Rear lid screw	2	M4x16 2 Chc screws
				Baddy box feet		
				Front foot bolt	2	M6X30 2 Chc screws + 2 nylstop nuts + 12 washers
				Rear foot bolt	1	M6X34 1 Chc screw + 1 nylstop nut + 4 washers + rear foot washer 6cm
	23		BADDY BOX ELE 053	USB cable	1	
	24		BADDY BOX TRI 054	Tripod adapter	1	
	25		BADDY BOX ELE 055	Battery charger	1	

OPERATING BADDY