

Foucault Pendulum Electronics Kit.

D12_Parts lists for the Printed Circuit Boards.

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Document version	2026-05-25
Relates to PCB version	PCB BobControl v1 PCB Receivers v1 Other PCB's v0
Related Documents	Schemas & Board layouts of all PCB's D02_Options D10_Assembly Instructions

Table 1: BobControl_v1.

Type	Value	Amount	Remark
Resistor	1 Ohm / 5w	2	
Resistor	100 Ohm	3 +1	1 extra for modification
Resistor	1 kOhm	5	
Resistor	1.8 kOhm	2	
Resistor	2.2 kOhm	2	
Resistor	3.3 kOhm	5	
Resistor	4.7 kOhm	1 + 4	4 extra for modification
Resistor	8.2 kOhm	1	
Resistor	10 kOhm	16	
Resistor	12 kOhm	10	
Resistor	27 kOhm	2	
Resistor	47 kOhm	2	
Resistor	82 kOhm	1	
Resistor	100 kOhm	4	
Resistor	180 kOhm	1	
Resistor	200 kOhm	2	
Resistor	470 kOhm	4	not when mod is done
Resistor	PTC UB75F	1	
TrimPot	1 kOhm	1	
TrimPot	100 kOhm	2	
Capacitor Ceramic	22 pF	1	
Capacitor Ceramic	1 nF	1	
Capacitor Ceramic	100 nF	23 +1	1 extra for mod
Capacitor Foil	1 uF	3	2 not needed when mod
Capacitor Elco	100 uF / 16 V	2	
Capacitor Elco	100 uF / 35 V	1	
Capacitor Elco	4700 uF 35 V	2	
Transistor	2n2219 NPN	1	

Transistor	2n2905 PNP	1	
Transistor	BS170 N-Fet	4	
Transistor TO220	2n6388 NPN PWR Darlington	1	
Module DDS	GY9833	1	
DC-DC converter	TBA-2421-H1	1	
Diode	1n4003	1	
Led 3mm	Red	2 +2	
Led 3mm	Yellow	2 +2	
Led 3mm	Green	6 +2	
Led 3mm	Blue	1 +2	
IC	4n35 Optocoupler	1	
IC	TL074 Quad Opamp	2	
IC Socket	DIL-14	2	
IC Socket	DIL-6	1	
Pinheader male	2 x 4	1	
Pinheader male	2 x 2	3	
Pinheader female	1 x 7	1	
Pinheader female	1 x 8 long pins	5	
Pinheader female	1 x 10 long pins	1	
Pinheader female	2 x 3 long pins	1	
Pinheader female	2 x 18 long pins	1	Or 1 single row x 18
Jumpers	0.1"	8	
Terminal block	2 pol 0.2"	2	
Boxed Header male	2 x 5	1	
Boxed Header male	2 x 10	1	
Connector	RCA Fem Chassis	1	
Screw and nut Brass	M3 x 25	1	
Stud + nut	M3 x 15	4	
PCB	BobControl v1	1	

Table 2: Receivers_v1.

Type	Value	Amount	Remark
Resistor	100 Ohm	18	
Resistor	1 kOhm	6	
Resistor	5.6 kOhm	6	
Resistor	22 kOhm	12	
Resistor	27 kOhm	7	
Resistor	100 kOhm	6	
Resistor	180 kOhm	7	
Trimpot	5 kOhm	6	
Capacitor Foil	6.8 nF	24	
Capacitor Elco	1 uF / 50 V	6	

Ceramic Filter	465 kHz	6	
Diode	1n4148	12	
Led 3 mm	Green	2	
Boxed Header	2 x 4	1	
Boxed Header	2 x 7	1	
Boxed Header	2 x 10	1	
Screw and nut	M3 x 25	1	
Stud and nut	M3 x 15	4	
PCB	Receivers_v1	1	

Table 3: PMS_Base_v0.

Type	Vallue	Amount	Remark
Resistor	1 kOhm	4	
Resistor	100 kOhm	4	
Capacitor Foil	6.8 nF	4	
Transistor	BF245-C J-FET	4	
Boxed Header	2 x 7	1	
Header fem	1 x 4	1	
Module BME280	GYBMEP	1	
PCB	PMS_Base_v0	1	

Table 4: PreAmps_v0.

Type	Vallue	Amount	Remark
Resistor	1 kOhm	2	
Resistor	100 kOhm	2	
Capacitor Foil	6.8 nF	2	
Transistor	BF245-C J-FET	2	
Boxed Header	2 x 7	1	
PCB	PMS_Base_v0	1	