

Index	Qty	Description
Main Board		
Fuse	1	MF-R050
C1, C39	2	47 uF electrolytic
C2, C28, C34, C37, C51, C52, C53, C54	8	10 uF electrolytic
C3, C5	2	0.47 uF electrolytic
C43, C50	2	4.7 uF electrolytic
C4, C9, C10, C11, C12, C13, C15, C17, C18, C20, C24, C25, C38, C40, C41	15	0.1 uF ceramic
C6, C7, C8, C14, C16, C19, C21	7	470 pF ceramic
C23, C36	2	47 nF polystyrene
C29	1	100 pF polystyrene
C30, C32	2	1 nF polystyrene
C31	1	4.7 nF polystyrene
C22, C33	2	470 nF polystyrene
C26, C27, C35	3	470 pF polystyrene
C42, C47	2	0.082 uF ceramic
C45, C46	2	560 pF ceramic
C44	1	3.9 nF ceramic
C48	1	3.3 nF ceramic
C49	1	0.01 uF ceramic
R1, R2, R26, R33, R36, R55, R56, R60, R61	9	220 Ohm
R3, R39, R70, R85, R92	5	4.7 kOhm
R4, R6, R12, R15, R18, R21, R25, R30, R32, R35, R45, R46, R53, R66, R67, R71, R73, R74, R75, R78, R79, R87, R88, R105, R106, R108, R109, R111	30	100 kOhm
R5, R16, R22, R104	4	33 kOhm
R7, R9, R24, R27, R31, R34, R52	7	24 kOhm
R11, R17, R23	3	10 Ohm
R43, R47, R49	3	330 Ohm
R86, R112	2	200 kOhm
R42	1	8 kOhm
R8, R41	2	12 kOhm
R28	1	3.9 kOhm
R29	1	16 kOhm
R69, R82, R83	3	470 kOhm

R37, R38, R54, R57, R58, R59, R62, R63, R65, R76, R77, R80, R81, R90, R91, R95, R96	17	10 kOhm
R40, R72, R107, R110	4	100 Ohm
R44, R84, R103, R113	4	1 kOhm
R64, R68	2	1.8 kOhm
R102	1	470 Ohm
R89, R94	2	15 kOhm
R93	1	5.6 kOhm
R50, R51, R97	3	18 kOhm
R98	1	510 kOhm
R10	1	160 kOhm
R99	1	120 kOhm
R48, R100	2	270 kOhm
R13, R14, R19, R20, R101	5	27 kOhm
IC1	1	LM7812
IC2	1	LM7805
IC3	1	6N138
IC4, IC5	2	MCP6004
IC14, IC18	2	TL074
IC6, IC8	2	MCP4922
IC7, IC9, IC10, IC12, IC15, IC16	6	TL072
IC11	1	MCP4921
IC13	1	LM13700
IC17	1	PT2399
D1	1	1N5817
D2	1	1N914
D3, D4, D5, D6	4	1N4148
D7, D8, D9	3	1N4728
Q1, Q3, Q4	3	BC547
Q2, Q9	2	2N3904
Q5, Q6	2	BC558
Q7, Q8	2	BC548
J1	1	DC-005 Power Socket (5.5x2.1)
J2, J20	2	PJ301 Stereo
J3, J4, J5, J6, J7, J8, J9, J10, J11, J12, J13, J14, J15, J16, J17, J18, J19	17	PJ301M
J21	1	PJ-314

SW1	1	Tact Switch 13mm
SW2	1	Slide Switch OS103011MS8QP1
SW3	1	Slide Switch OS102011MSQN1
VR1, VR2, VR3, VR4, VR5, VR6, VR7, VR8, VR9, VR10, VR11, VR12, VR14, VR15, VR16, VR17	16	10 kOhm (18mm)
VR13	1	50 kOhm (18mm)
U1	1	DC-DC Negative Converter (+12V to -12V)
U2	1	LM4040B10
U3	1	LM4040B25
S1, S2	2	MPR121 Module
S3	1	VL53L0X Module
LED1	1	LED Warm White 3mm
LED2, LED3	2	LED Red 3mm
SV1, SV2	2	Pinheader female 12pins
SV3	1	Pinheader female 2pins
	2	Round Hole male Header 14pin (for Teensy)
	2	Round Hole Female Header 14pin (for Teensy)
	2	Black Nylon HEX (F-F) M2.5x6 (for VL53L0X)
	4	Black Nylon Screw M2.5x4 (for VL53L0X)
	6	HEX PCB Screw (M-F) 10mm
	6	HEX PCB Screw (F-F) 17mm
	12	M3 Stainless Steel Flat Wafer Head Screw
	1	Teensy 4.0
	1	Main PCB

Case PCBs		
	1	SMD 2Pins Header
	2	SMD 12Pins Header
	1	Top PCB
	1	Bottom PCB

External Parts		
	1	Button Cap
	2	Slider Cap

	6	Rubber Feet
	1	15V Power Supply
	5	Patch cable