

# VFD Round Clock Check list

HW v.01

Component	Quantity	Check	Position
resistor 760K 0.25w	1		R9
resistor 100K 0.25w	3		R1, R2, R4
resistor 47K 0.25w	1		R10
resistor 20K 0.25w	1		R7
resistor 10K 0.25w	2		R3,R5
resistor 330 0.25w	1		R6
resistor 120 0.25w	1		R8
capacitor 470uF 16V	1		C7
capacitor 100uF 10V	1		C8
capacitor 33-47uF 63V	1		C11
capacitor 0.1uF 50V	5		C4,C6,C9,C10, C12
capacitor 1nF	1		C5
capacitor 33pF	2		C1, C2
trim capacitor ( red)	1		C3
Crystal 4MHz	1		Z1
Buzzer 5v	1		Buzzer
Transformer EP1301	1		Tr1
Transistor BC639	3		VT1, VT2, VT3
IC PIC16F648A smd	1		DD1
IC PT6315 smd	1		DD2
IC 78L05	1		VR1
Main PCB	1		
VFD48-1202FN VFD	1		
Backup battery CR2032	1		GB1
Backup battery holder	1		
Quick blow Fuse 1A	1		F1
1N4001A 1A diode	1		D1
Shottky diode	2		D2,D3
Zenner diode 5.1V	1		DZ2
Zenner diode 27-28V	1		DZ1
UF4004 fast switch 400V diode	1		D4
Connector 2pins socket DC	1		X1
Connector 5pins plug	1		X2
Connector plug 2pins with jumper	1		J1
Tactile Switch	2		B1, B2