

Value	Designator	Footprint	Quantity	Comment	Description
470µF	C1, C2, C3, C4	CAP 8x12	4	470µF	Electrolytic capacitor, Long Life 8000h/105°C, Low impedance, 470µF 16V 20%, 8.0x11.5mm, RM3.5mm
100nF 50V	C5, C6, C7, C8, C11, C12, C13, C15, C16, C17, C18	SMD 0603 CAP	11	100nF 50V	100nF 50V X7R +-10%
22µF 16V	C9	SMD 1206 CAP	1	22µF 16V	22µF 16V X5R +-20%
220µF	C10, C14	CAP 6.3x12	2	220µF	Electrolytic capacitor, RM series, 20%, -40~+105°C, 6.3x7mm RM2.5
1N4148W	D1, D2, D3, D5, D6, D7, D9, D10, D12, D13, D14, D17	SOD123	12	1N4148W	Diode Standard 100V 300mA DC, Surface Mount SOD-123
SK24	D4	SMB	1	SK24	Diode 40V 2A UFM0.55V/2A 1FM 50A IR 0.45mA, Schottky
KP-2012SURCK	D8	SMD 0805 LED-R	1	KP-2012SURCK	LED 2.0x1.25mm, 50-160 mcd@20mA, W.CLEAR, 120°
BZV55C6V8	D11, D16	SOD80C	2	BZV55C6V8	500 mW 5% 6.8V minimef
BZV55C22	D15	SOD80C	1	BZV55C22	500 mW 5% 22V minimef
5A	F1, F3	FUSE HOLDER	2	5A	Fuse Holder, 250 V, 6 A, Pcb Fuse Holder, Through Hole, P22,4mm
10A	F2	FUSE HOLDER	1	10A	Fuse Holder, 250 V, 6 A, Pcb Fuse Holder, Through Hole, P22,4mm
Wire	J1, J2, J3, J4, J5, J6, J7, J8, J11, J12, J13, J14, J15, J16, J17, J18, J19, J20, J21, J22, J23, J24, J27, J28, J30, J31	Wire-2	26	+12V, Water pump +, GND, Water pump -, +12V_OUT, Oil pump +, Oil pump -, +48V X, +48V X_OUT, button STOP, +48V Y, +48V Y_OUT, +48V Z, +48V Z_OUT, Coil A+, Coil B+, Coil A-, Coil B-, High Voltage A-, High Voltage B-, Water sensor, Oil sensor	Wire
PN1X7	J9	PN1X7	1	PN1X7	Single Row / Straight / Without Shroud Female header Female 7   WÄ¼rth Elektronik 61300711821 @ Pin header, socket _Si...
PN1X8	J10	PN1X8	1	PN1X8	Single Row / Straight / Without Shroud Female header Female 8   WÄ¼rth Elektronik 61300711821 @ Pin header, socket _Si...
PN1X2	J25, J26, J29, J32, J33, J34, J35	PN1X2	7	X limit switch, Y limit switch, Z limit switch, Probe switch, Hold button, Start button, Door switch	Single Row / Straight / Without Shroud Female header Female 2@ Pin header, socket _Si...
RAS-12-15	K1, K2, K3, K4, K5, K6, K7	RELAY RAS-12-15 (SPDT)	7	RAS-12-15	RELAY 12V /30mA 15A/ 24VDC(120VAC) 10A/ 250VAC
CL220µH	L1, L2	INDC RBQE	2	CL220µH	Toroidal Coil 220µH 0.099 ohm 3000mA 20%
CL1.0mH	L3	DRH104R	1	CL1.0mH	CL1.0mH SDI104R (DRH104R); 2.959 ohm, 0.48A, 20%
DTC114YKA	Q1, Q3, Q5, Q6, Q9, Q13, Q18, Q20, Q21, Q22, Q23, Q25, Q27, Q28, Q29, Q30	SOT-346 (SCS9) Black	16	DTC114YKA	NPN Digital 50V 100mA 200mW R1=10kOm R2=47kOm
AP2306GN	Q2, Q4, Q7, Q10, Q11, Q14, Q15, Q16	SOT-23-3	8	AP2306GN	NMOS 20V 5.3A 1.38W 35mOhm/4.5V; 50mOhm/2.5V
SST2222A	Q8, Q12, Q19, Q26	SOT-23-3	4	SST2222A	Transistor NPN 40V 600mA 300MHz 350mW
BC807-25	Q17, Q24	SOT-23-3	2	BC807-25	Transistor PNP 45V 500mA 0.25W HFE 160-400
22k	R1, R3, R4, R6, R8, R9, R11, R12, R14, R16, R17, R18, R19, R20, R22, R23, R29, R30, R31, R33, R34, R37, R38, R39, R41, R42	SMD 0603	26	22k	RES
47k	R2, R5, R10, R15, R21, R24, R26, R28	SMD 0603	8	47k	RES
10k	R7	SMD 0603	1	10k	RES
2,4k	R13, R27, R36	SMD 0603	3	2,4k	RES
220k	R25, R35	SMD 0603	2	220k	RES
15k	R32, R40	SMD 0603	2	15k	RES
SMBJ13A	TZ1	DO-214AA (SMB)	1	SMBJ13A	Transient Voltage Suppressors, Uni-directional, 600W, UBRmin14.4V@1mA