

903-51X

Parts-List

Resistors				
Quantity	Position	Value	Type	Package
2	JP1, R028	0R		0207
3	R26, R27, R28	22R	0,5W 1% MF	0207
1	R58	620R	0,5W 1% MF	0207
7	R1, R3, R14, R36, R64, R66, R69	1K	0,5W 1% MF	0207
6	R16, R17, R23, R24, R59, RLED2	2K2	0,5W 1% MF	0207
2	R20, R39	4K7	0,5W 1% MF	0207
2	R18, R25	5K6	0,5W 1% MF	0207
2	R5, R6	7K5	0,5W 1% MF	0207
9	R2, R4, R29, R32, R35, R38, R52, R61, R62	10K	0,5W 1% MF	0207
2	R47, R48	12K4	0,5W 1% MF	0207
1	R42	20K	0,5W 1% MF	0207
1	R56	22K DUAL REV LOG Potentiometer	Omeg	
2	R9, R46	22K LIN Potentiometer	Omeg	
2	R13, R68	24K9	0,5W 1% MF	0207
1	R63	27K	0,5W 1% MF	0207
2	R15, R67	49K9	0,5W 1% MF	0207
7	R12, R22, R40, R49, R54, R57, R60	50K	MT Trimmer	64Y
1	R70	50K	MT Trimmer	<i>not included</i>
2	R31, R34	75K	0,5W 1% MF	0207
3	R30, R33, R51	100K	0,5W 1% MF	0207
1	R55	165K	0,5W 1% MF	0207
1	R45	232K	0,5W 1% MF	0207
1	R10	374K	0,5W 1% MF	0207
1	R44	432K	0,5W 1% MF	0207
1	R65	680K	0,5W 1% MF	0207
1	R50	750K	0,5W 1% MF	0207
2	R37, R43	1M	0,5W 1% MF	0207
1	R21	1M2	0,5W 1% MF	0207
1	R11	3M3	0,5W 1% MF	0207
1	R41	4M7	0,5W 1% MF	0207
1	R53	5M6	0,5W 1% MF	0207
3	R7, R19, R71	TBD	0,5W 1% MF	<i>not included</i>

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Capacitors				
Quantity	Position	Value	Type	Spacing
1	C13	10pF	Ceramic	5mm
2	C4, C16	68pF	Ceramic	5mm
3	C6, C9, C10	100pF	Ceramic	5mm
3	C1, C2, C22	1nF	Ceramic	5mm
1	C14	10nF	Ceramic	5mm
10	CBP1, CBP2, CBP3, CBP4, CBP5, CBP6, CBP17, CBP18, CBP19, CBP20	100nF	WIMA MKS2	5mm
1	C11	1µF	WIMA MKS2	5mm
3	C5, C15, C21	1µF	Electrolytic	Radial, 2,5mm
1	C3	4µ7F	Bipolar Electrolytic	Radial, 2,5mm
1	C12	22µF	Tantal	Radial, 2,5mm
6	C7, C8, C17, C18, C19, C20	22µF / 63V	Electrolytic	Radial, 2,5mm

Diodes				
Quantity	Position	Value	Type	Package
9	D1, D2, D3, D4, D5, D6, D7, D8, D10	1N4148		DO35
8	D12, D*12, D13, D*13, D14, D*14, D15, D*15	1N4004 / 1N4007		DO41
1	LED1	Red		3mm
1	LED2	Green		3mm

Transistors				
Quantity	Position	Value	Type	Package
1	Q1	2N3440		TO39
1	Q2	2N4036		TO39

ICs				
Quantity	Position	Value	Type	Package
1	M1	dbx 202X		<i>not included</i>
1	M2	dbx 146221		<i>not included</i>
1	IC5	LF351	Opamp	DIP8
1	IC6	LM301	Opamp	DIP8
1	IC4	RC4558	Opamp	DIP8
3	IC1, IC2, IC3	TL072	Opamp	DIP8

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Mechanical Parts / Switchs / Misc.				
Quantity	Position	Value	Type	Package
1	S1	Switch	DPDT	SPUJ2
1	S1	Knob		Black
1	REL1	Relay	TQ2-24V	DPDT (2 Form C)
1	TO METER BOARD	2 x 5 Socket		
2	Q1, Q2	Heat Sink	TO39	
6	IC1, IC2, IC3, IC4, IC5, IC6	DIP8 Sockets		
1		90351X	rev02	PCB
1		Frontpanel	903-51X	
1		L-Bracket	903-51X	
4		Screws		M3
4		Spring Washers		3mm
2		Distance Sleeves	20mm	M3
3	ELMA 14,5mm Knob			
1	Knob Cap red			
1	Knob Cap blue			
1	Knob Cap green			

Emulation Circuits				
Quantity	Position	Value	Type	Package
1	RM14	51R	Resistor	0207
1	RM12	365R	Resistor	0207
1	RM15	4K7	Resistor	0207
1	RM13	5K1	Resistor	0207
1	R7	13K7	Resistor	0207
1	R19	20K	Resistor	0207
2	CBPM11, CBPM12	100nF	MKS2	5mm
1	ICM11	2180B	VCA	SIP8
1	ICM11	SIP8 Socket		
1	ICM12	LF351	Opamp	DIP8
1	ICM12	DIP8 Socket		
1	DM21	1N4148	Diode	DO35
1	QM22	BC550	Transistor	TO92
1	QM21	CA3083	Transistor Array	DIP16
1	QM21	DIP16 Socket		

Optional Output Transformer				
Quantity	Position	Manufacture	Type	
1	TRX1	Haufe	RK494	<i>not included</i>
1	TRX1	Lundahl	LL5402	<i>not included</i>
1	TRX1	Neutrik	NTL1	<i>not included</i>
1	TRX1	OEP	A262A7E	<i>not included</i>

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Parts-List

903-51X Meter PCB				
Quantity	Position	Value	Type	Package
1	R32	330R	Resistor	0207
1	R33	680R	Resistor	0207
2	R1, R2	1K	Resistor	0207
4	R3, R4, R5, R6	2K	Resistor	0207
1	R34	4K7	Resistor	0207
2	R7, R8	4K99	Resistor	0207
12	R9, R10, R12, R14, R16, R18, R20, R22, R24, R26, R28, R30	10K	Resistor	0207
1	R11	261K	Resistor	0207
10	R13, R15, R17, R19, R21, R23, R25, R27, R29, R31	10M	Resistor	0207
2	C1, C2	10 μ F	Electrolytic	Radial, 2,5mm
1	D1	1N4148		DO35
10	LED1 - LED10	Red		3mm
1	Q1	2N4036		TO39
3	IC1, IC2, IC3	LM339	Quad Comparator	DIP14
3	IC1, IC2, IC3	DIP14 Socket		
1	FROM MAIN BOARD	2 x 5 Header		