

**Dinoplex AEC 101 Revision D and above, Replacement Component List  
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Part		Original Part		Replacement Part				
#	Type	Comment	Defect Probability	Type	Manufacturer	Alternate Type	Manufacturer	Comment
T1	RCA 39578 (NPN)	Units before '69 used 2N3773	High	2N3773 (NPN)	ON, others			Use selected pair within <5% hFE tolerance
T2	RCA 39578 (NPN)	Units before '69 used 2N3773	High	2N3773 (NPN)	ON, others			Use selected pair within <5% hFE tolerance
THR1	C137PB		Medium	C137PB	SSI, Powerex	25RIA120 SCR	International Rectifier	C137PB is sometimes available as NOS in the US
D1	G8 HZMR		Low	BYX42-1200-R	Philips, AEI			DO-4 (M5 screw), >8A, >600 Volt, screw is anode
D2	G8 HZM		Low	BYX42-1200	Philips, AEI			DO-4 (M5 screw), >8A, >600 Volt, screw is cathode
D3	G8 HZMR		Low	BYX42-1200-R	Philips, AEI			DO-4 (M5 screw), >8A, >600 Volt, screw is anode
D4	G8 HZM		Low	BYX42-1200	Philips, AEI			DO-4 (M5 screw), >8A, >600 Volt, screw is cathode
D5	G8 HZMA		Low	BYX42-1200	Philips, AEI			DO-4 (M5 screw), >8A, >600 Volt, screw is cathode
D6	1N1344BR		Medium	5855	NTE	BYX38-300R	Philips, DSI, Thomson	DO-4 (M5 screw), Vrrm 200V, Io 6A, screw is anode
D7	P1000		Low	1N4007	various	1N5408	various	1-2A, 1000 Volt
D8	P200		Low	1N4003	various	1N5402	various	1-2A, 200 Volt
C1	0,47uF/V <sub>Icc</sub> 125	<i>Check capacity and replace if required</i>	Medium	0,47uF 275 Volt MKP	WIMA MKP-X2, others			Axial or MKP/MKS
C2	150uF	If this part is defect, T1 and T2 are most likely also gone (voltage spikes via the +12 feed B+)	High	150uF 63 Volt Axial	various	100uF+ 47uF 60 Volt Axial in parallel	various	Requires electrolytic capacitor with polarity
C3	0,047uF/V <sub>Icc</sub> 1000	<i>Check capacity and replace if required</i>	Medium	0,047uF 1000 Volt MKP	WIMA MKP10, others			Axial or MKP/MKS
C4	1,5uF/600 Volt	<i>Check capacity and replace if capacity is below 1,4uF</i>	Medium	B32656S0155K501 1,5uF 1000V	EPCOS	C4GAMUD4150AA1J 1,5uF 850 Volt Axial	Arcotronic	Different enclosure type (square instead of radial), requires new internal mount
R1	2,7Ω/5%		Low	2,7Ω/5% 7 Watt	HTR C-7A2R7J, others			Wire wound resistors in a ceramic package
R2	2,7Ω/5%		Low	2,7Ω/5% 7 Watt	HTR C-7A2R7J, others			Wire wound resistors in a ceramic package
R3	22Ω/5%		Low	22Ω/5% 7 Watt	HTR C-7A22RJ, others			Wire wound resistors in a ceramic package
R4	22Ω/5%		Low	22Ω/5% 7 Watt	HTR C-7A22RJ, others			Wire wound resistors in a ceramic package
R5	47Ω/5%		Low	47Ω/5% 7 Watt	HTR C-7A47RJ, others			Wire wound resistors in a ceramic package
R6	680Ω/10%/5,7mm		Low	680Ω/10% 1 Watt	various			Leaded thin film or metal oxyde resistor
R7	680Ω/10%/5,7mm		Low	680Ω/10% 1 Watt	various			Leaded thin film or metal oxyde resistor
R8	680Ω/10%/5,7mm		Low	680Ω/10% 1 Watt	various			Leaded thin film or metal oxyde resistor
R9	150Ω/5%/5,7 mm		Low	150Ω/5% 1 Watt	various			Leaded thin film or metal oxyde resistor
R10	470KΩ/5%/7,8mm		Low	470KΩ/5% 2 Watt	various			Leaded thin film or metal oxyde resistor