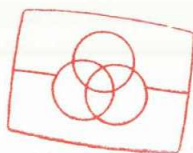


I.R. Remote control system EM2200/60

Service
Service
Service



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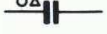

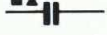
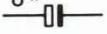
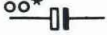
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Service Manual

EM2200:

The EM2200 is an I.R. receiver for any
Compact Disc player with an RC-5 remote
control input

	Carbon film 0.2 W 70°C 5%		Ceramic plate Tuning ≤ 120 pF NP.0 2% Others -20/+80%	<div>*a = 2,5 V b = 4 V c = 6,3 V d = 10 V e = 16 V f = 25 V g = 40 V h = 63 V j = 100 V l = 125 V m = 150 V n = 160 V q = 200 V r = 250 V s = 300 V t = 350 V u = 400 V v = 500 V w = 630 V x = 1000 V A = 1,6 V B = 6 V C = 12 V D = 15 V E = 20 V F = 35 V G = 50 V H = 75 V I = 80 V</div>
	Carbon film 0.33 W 70°C 5%		Polyester flat foil 10%	
	Metal film 0.33 W 70°C 5%		Metalized polyester flat film 10%	
	Carbon film 0.5 W 70°C 5%		Polyester flat foil small size (Mylar) 10%	
	Carbon film 0.67 W 70°C 5%		Polysterene film/foil 1%	
	Carbon film 1.15 W 70°C 5%		Tubular ceramic	
<div>Ⓒ Chip component</div>			Miniature single	
			Subminiature tantalum ± 20%	

27 037A/C

GB

Safety regulations require that the set be restored to its original condition and that parts which are identical with those specified be used.

NL

Veiligheidsbepalingen vereisen, dat het apparaat in zijn oorspronkelijke toestand wordt teruggebracht en dat onderdelen, identiek aan de gespecificeerde worden toegepast.

D

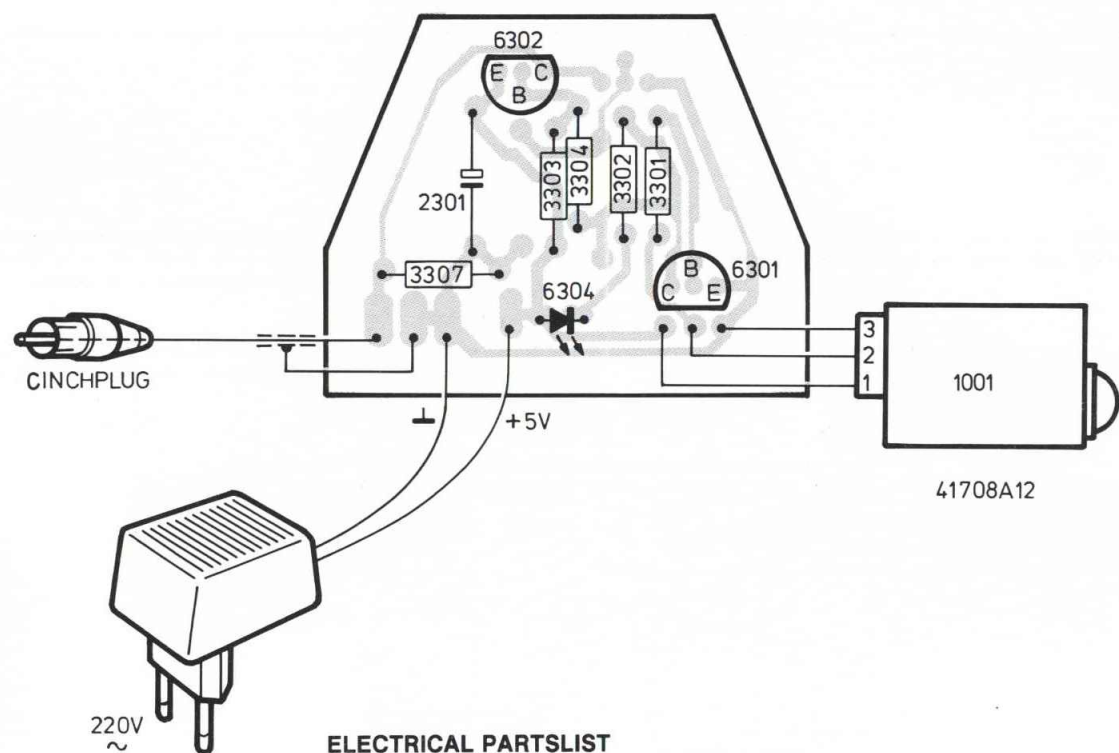
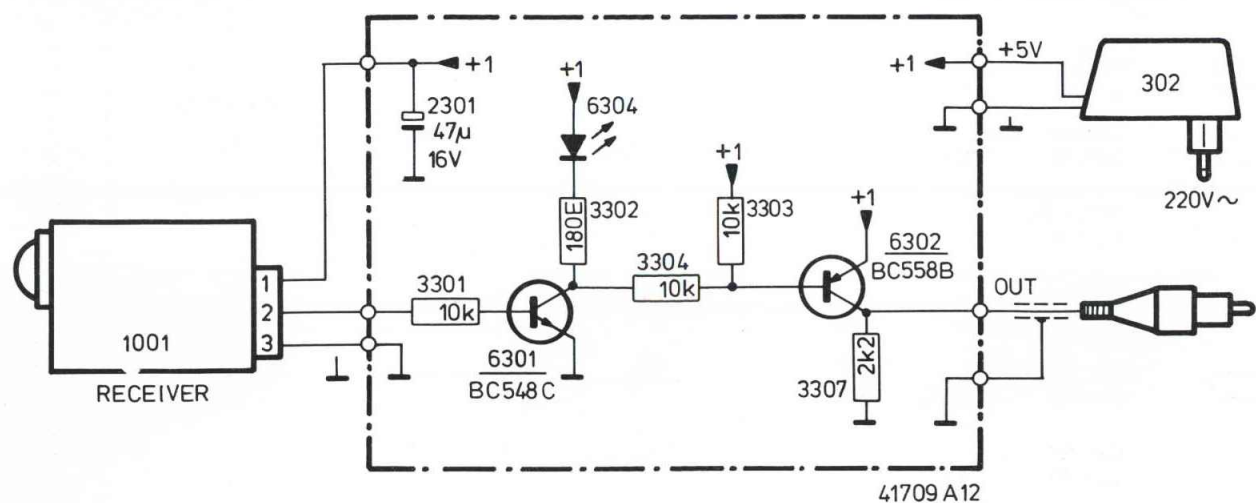
Bei jeder Reparatur sind die geltenden Sicherheitsvorschriften zu beachten. Der Originalzustand des Geräts darf nicht verändert werden für Reparaturen sind Original-Ersatzteile zu verwenden.

I

Le norme di sicurezza esigono che l'apparecchio venga rimesso nelle condizioni originali e che siano utilizzati pezzi di ricambio identici a quelli specificati.

F

Les normes de sécurité exigent que l'appareil soit remis à l'état d'origine et que soient utilisées les pièces de rechange identiques à celles spécifiées.



ELECTRICAL PARTSLIST

Miscellaneous

302	4822 218 10201	MAINS ADAPTOR AC/DC For EM2200/60
302	4822 218 10279	AC/DC AD-0710(7.5V) For EM2200/BK01
1001	4822 218 30196	IR RC RECEIVER

Capacitor

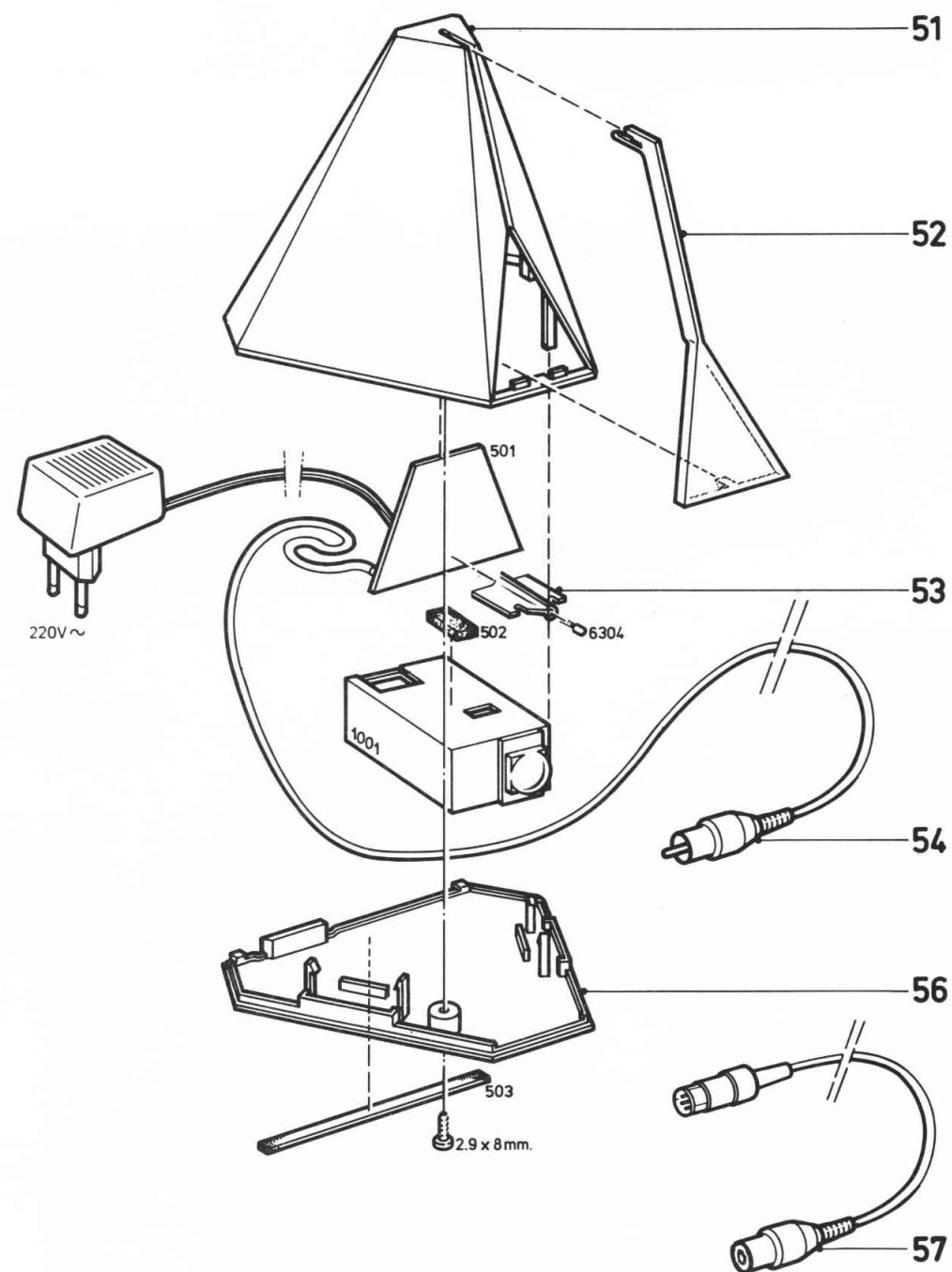
2301	4822 124 22027	ELCAP A 25V 47MU
2302	5322 121 42661	POLCAPS 63V 330N 5%

Resistor

3301	4822 116 52452	MET FLM RST 10K
3302	4822 116 52403	MET FLM RST 180R
3303	4822 116 52452	MET FLM RST 10K
3304	4822 116 52452	MET FLM RST 10K
3307	4822 116 52408	MET FLM RST 2K2

Semiconductor

6301	4822 130 44196	TRANS BC548C
6302	4822 130 44197	TRANS BC558B
6304	5322 130 34957	LED TLR 123 (RED)
6305	4822 209 72042	MC78L05ACP



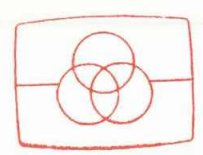
MECHANICAL PARTSLIST

51	4822 444 60635	PYRAMID CAP ASSY
52	4822 450 61381	PYRAMID WINDOW ASSY
53	4822 255 40468	LED HOLDER
54	4822 321 22363	CINCH PLUG WIRE ASSY
56	4822 444 50622	PYRAMID BOTTOM
57	4822 321 22364	ADAPTION WIRE ASSY

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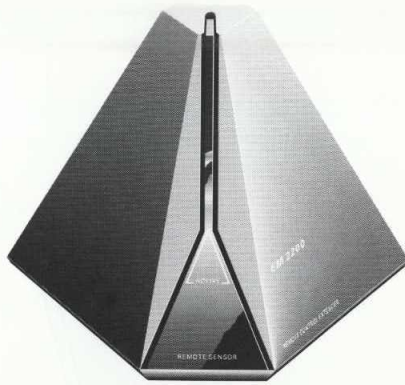
I.R.Remote control system EM2200/80/97



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Service Manual

The EM2200 is an I.R. receiver for any Audio/Video system with a RC-5 remote control input.

GB

Safety regulations require that the set be restored to its original condition and that parts which are identical with those specified be used.

NL

Veiligheidsbepalingen vereisen, dat het apparaat in zijn oorspronkelijke toestand wordt teruggebracht en dat onderdelen, identiek aan de gespecificeerde worden toegepast.

D

Bei jeder Reparatur sind die geltenden Sicherheitsvorschriften zu beachten. Der Originalzustand des Geräts darf nicht verändert werden für Reparaturen sind Original-Ersatzteile zu verwenden.

I

Le norme di sicurezza esigono che l'apparecchio venga rimesso nelle condizioni originali e che siana utilizzati pezzi di ricambiago identici a quelli specificati.

F

Les normes de sécurité exigent que l'appareil soit remis á l'état d'origine et que soient utilisées les pièces de rechange identiques á celles spécifiées.

"Pour votre sécurité, ces documents doivent être utilisés par des spécialistes agréés, seuls habilités á réparer votre appareil en panne"

TECHNICAL SPECIFICATIONS

General

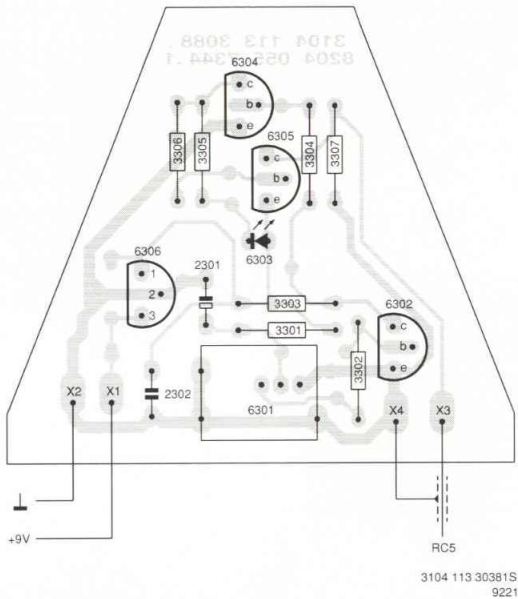
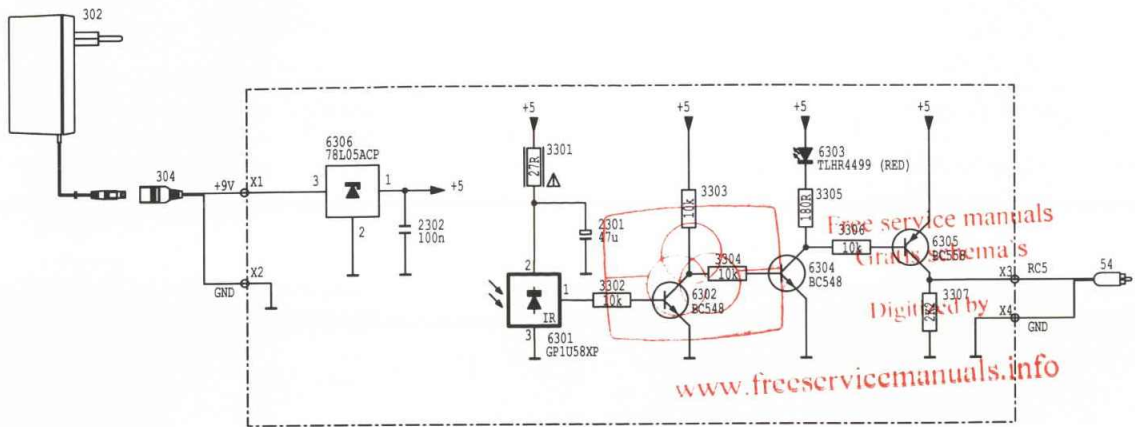
- | | | |
|---|------|--------------------------|
| 1.Mains voltage (Mains Adaptor) | /80 | : 230V (±15%) |
| | /97 | : 240V (±15%) |
| 2.Output voltage | low | : 0,0 to 0,1V in no load |
| | high | : 4 to 5,5V in 190Ω load |
| 3.Output resistance | | : 2,2kΩ |
| 4.Output is short circuit protected | | |
| 5.Extension cable may be max 10m long of max 300pF/m and max 0,1Ω/m | | |

Dimensions and weight

- | | |
|-------------|--------------------------|
| 1.Apparatus | : WxDxH 110 x 80 x 95 mm |
| 2.Weight | : 420g |

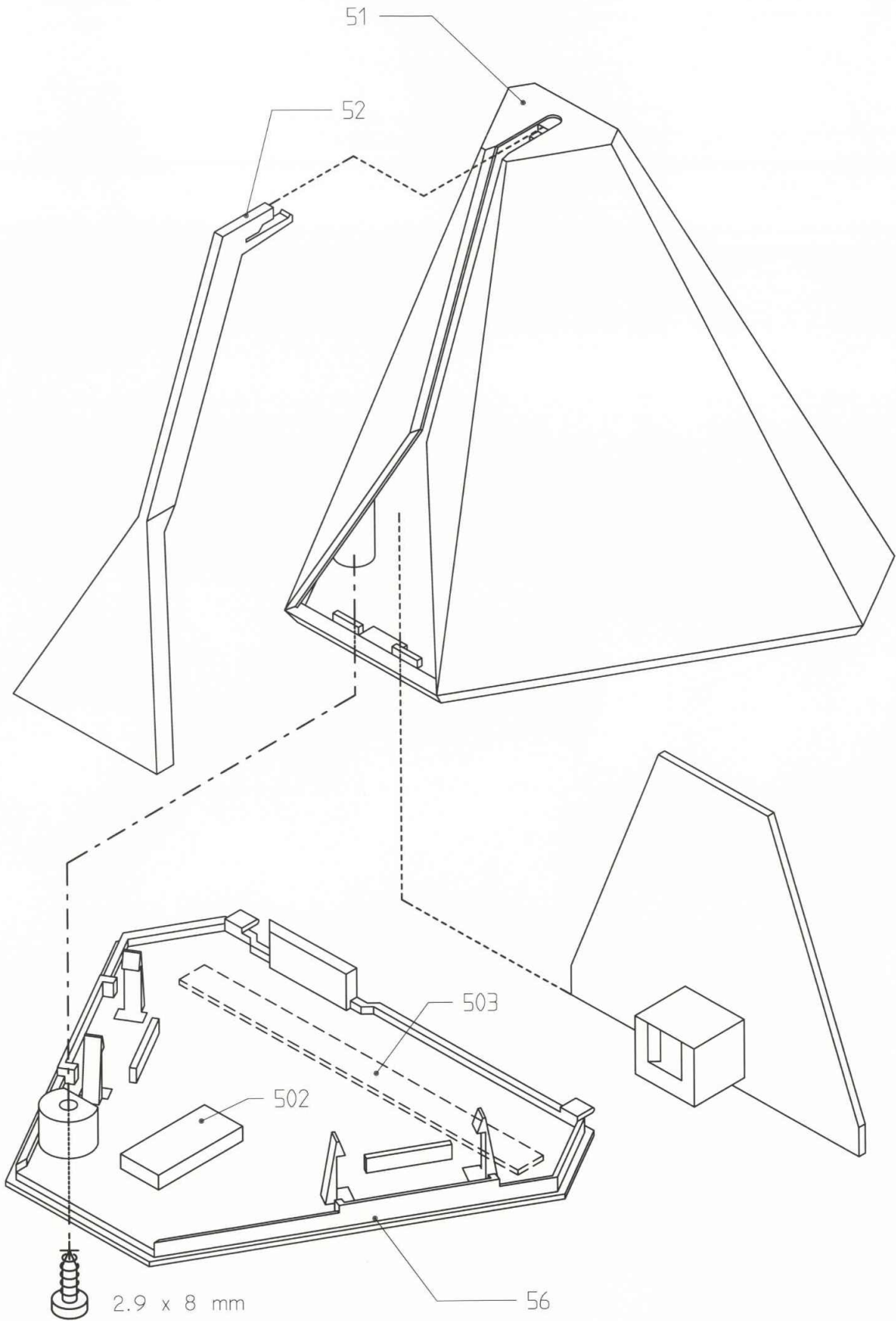


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ELECTRICAL PARTSLIST

MISCELLANEOUS			RESISTORS		
54	4822 321 61683	EXTENSION WIRE 10M	3301	4822 052 10279	27Ω 5% 0,33W
302 ▲	4822 321 22363	CINCH PLUG WIRE ASSY	3302	4822 050 21003	10k 5% 0,125W
302 ▲	4822 218 10473	POW. SUPP. UNIT /80	3303	4822 050 21003	10k 1% 0,6W
304	4822 218 10474	POW. SUPP. UNIT /97	3304	4822 050 21003	10k 1% 0,6W
	4822 321 10857	POWER SUPPLY CABLE	3305	4822 050 21801	180Ω 5% 0,125W
6301	4822 214 52009	GP1U58XP	3306	4822 050 21003	10k 5% 0,125W
			3307	4822 050 22202	2k2 1% 0,6W
CAPACITORS			DIODE & TRANSISTORS		
2301	4822 124 40433	47μF 20% 25V	6302	4822 130 44196	BC548C
2302	5322 121 42386	100nF 10% 50V	6303	4822 130 80849	TLHR4499
			6304	4822 130 44196	BC548C
			6305	4822 130 44197	BC558B
			6306	4822 209 72042	MC78L05ACP



MECHANICAL PARTSLIST

51	4822 255 40468	LED HOLDER
52	4822 321 61683	EXTENSION WIRE 10M
53	4822 444 60635	PYRAMID ASSY
54	4822 450 61381	PYRAMID WINDOW ASSY
55	4822 321 22363	CINCH PLUG WIRE ASSY
56	4822 321 50622	PYRAMID BOTTOM
57	4822 321 10857	POWER SUPPLY CABLE

The following parts are only available during production period on special request.

502, 503