

## Marantz CD63mkII modifications

### Power supply

Part:	Org. value:	Replace by:	Brand:	Farnell:	Remark:
C801/802	22n cer.	47n/MKS	Wima		
C803/804	470u/35V	2200u/35V	Panasonic FC	303-6455	+100n X7R
C805/806	470u/16V	1200u/16V	Panasonic FC	303-6182	+100n X7R
C811/812	22n cer.	47n/MKS	Wima		
C813	4700u/16V	4700u/16V	Panasonic FC	303-6212	+100n X7R
C814	1000u/16V	3300u/16V	Panasonic FC	303-6200	+100n X7R
C815	3300u/6,3V	4700u/6,3V	Panasonic FC	303-6005	+100n X7R
D801...804	S5688G	MBR1100	IR	489-7432	
D811...814	S5688G	MBR1100	IR	489-7432	
D851/854	S5688G	MBR1100	IR	489-7432	
DN01/02	S5688G	MBR1100	IR	489-7432	
Q801/802	78M12/79M12	LM317/LM337	* see below		
Q811	7805	LM340AT-5,0	NSC	412-703	

### HDAM & OPAMPS (Q605/606)

C611...614	220u/16V	470u/25V	Elna RJH	321-3444	+100n PPS
C651...654 #	220u/16V	470u/25V	Elna RJH	321-3444	+100n PPS #
C655...658	220u/16V	wire jumper			measure offset first!
C659/660	100p	remove			
R613...616	10R	1mH/14R	Siemens	608-609	+2 ferrites
R651...654 #	27R	1mH/14R	Siemens	608-609	+2 ferrites #
R655/656	10k	remove			
R657/658	100R	wire jumper			
R659/660	100R	47R			
QN05...08	2SC2878	remove			
Q605/606 **	NJM2114D	AD827/LM6172/LT1361....		experiment!	** see below
- insert extra 220n/PPS between pins 4 and 8			Panasonic	383-5492	SMD

### OUTPUT FILTER

C601...604	120p	120p/1% PS	Styroflex	303-9900	
C605/606	1000p	430p/1% PS	Styroflex	952-0783	Bessel filter
C607/608	100p	100p/1% PS	Styroflex	303-9894	
CD21...24	120p	120p/1% PS	Styroflex	303-9900	
L601/602	220uH	470uH	Siemens	608-580	Bessel filter
R601...604	27k	27k/0,1%	Philips	308-6288	MELF
R607/608	18k	18k/0,1%	Philips	308-6240	MELF
R609/610	22k	22k/0,1%	Philips	308-6264	MELF
R605/606/611/612	10k	14k/0,1%	Welwyn	950-0332	Bessel filter
RD21...28	10k	10k/0,1%	Philips	308-6185	MELF

### DAC (QD01, SM5872BS)

CD04	220u/10V	remove			
CD05	47n cer.	470u/10V	Elna RJH	321-3316	+100n PPS
CD06	47n cer.	470u/10V	Elna RJH	321-3316	+100n PPS
CD07	220u/10V	remove			
CD12/13	47n cer.	470u/10V	Elna RJH	321-3316	+100n PPS
CD15/16	220u/10V	remove			
RD01/04	4,7R	470uH/2,5R	Siemens	517-070	+2 ferrites
U200	jumper	470uH/2,5R	Siemens	517-070	+2 ferrites

### **HF-amp (Q501/502)**

C503	47n cer.	100n PPS			
C504	220u/10V	470u/10V	Elna RJH	321-3316	
C505	2200p cer.	2n2 PS	Styroflex	303-9705	
R505	100R	1mH/14R	Siemens	608-609	+2 ferrites

### **Decoder (Q503, SAA7354)**

C507	47p cer.	47p PS			
C508	22n cer.	22n MKT			
C509/512	47n cer.	470u/10V	Elna RJH	321-3316	+100n PPS
C510/511	220u/10V	remove (put new elcap in C509/512's place, closer to IC)			
C513	47n cer.	100n PPS	Panasonic	383-5418	SMD
R508	4,7R	470uH/2,5R	Siemens	517-070	+2 ferrites
R511	4,7R	jumper			
U179	jumper	470uH/2,5R	Siemens	517-070	+2 ferrites

### **SERVO & Vref. (Q104, TDA1301T)**

C120/122	47u/16V	120u/16V	Elna RJH	321-3365	
C124	10u/16V	120u/16V	Elna RJH	321-3365	
C119/121/123	47n cer.	100n X7R	Siemens		
R107	330R	1mH/14R	Siemens	608-609	+2 ferrites
R122/123	4,7R	470uH/2,5R	Siemens	517-070	+2 ferrites
R124/125	150R	1k/1%			

### **Drivers (Q105/106/QM01, TCA0372)**

C135/138/153/154	47u/16V	120u/16V	Elna RJH	321-3365	
C136/137/146/ 148/151/152	22n cer.	100n X7R	Siemens		
R127/128	4,7R	470uH/2,5R	Siemens	517-070	+2 ferrites
R149/150/164/165	1,0R	100uH/0,7R	Siemens	516-570	+2 ferrites

### **µCONTROLLER (QF01, MN187164)**

CF02	47u/16V	remove (put new elcap in CF01's place, closer to µC)			
CF01	47n cer.	120u/16V	Elna RJH	321-3365	+100n X7R
CY01	22n cer.	22u/16V in parallel			
RF01	4,7R	470uH/2,5R	Siemens	517-070	+2 ferrites
RY11	4,7R	470uH/2,5R	Siemens	517-070	+2 ferrites

- insert extra 100n X7R between pins 35 and 36 of JF01

### **RF AMP PCB**

C107	47n cer.	120u/16V	Elna RJH	321-3365	+100n PPS
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Insert extra 100n X7R between pins 4 and 5 of J102

For updated mods-lists and detailed photos: visit [www.rayelectronics.nl](http://www.rayelectronics.nl)

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