

## MARANTZ CD-63 KI MODS - ROWEMEISTER (2005/06)

### PSU

THIS UNIT IS FITTED WITH 10X CUSTOM REGS

### PARTS

1X NUVOTEM TOROIDAL TX (2X 12V)  
8X HEXFRED DIODES  
2X 10nF CAP  
2X 100nF CAP  
2X SILMIC 470uF 35V CAPS

2X NUVOTEM TOROIDAL TX (4X 9V)  
4X LM1086 ADJUSTABLE REG  
4X 10uF 35V ELNA STARGET CAPS

1X AUDIOCOM SUPER REG +12V  
100uH COIL  
2.2mH COIL  
2X 16V 100uF BLACK GATE FK CAPS

1X AUDIOCOM SUPER REG +5V  
1X 35V 470uF SILMIC CAP  
1X 10nF CAP  
1X 100nF CAP

1X AUDIOCOM INVISUS REG +5V  
2X 16V 1000uF BLACK GATE CAPS

1X AUDIOCOM QPOWER REG +5V  
1X 16V 1000uF BLACK GATE CAP

1X AUDIOCOM SUPER REG +12V  
1X AUDIOCOM SUPER REG -12V

### DETAIL

THIS PSU SUPPLIES 2X 16V TO TWO REGULATORS  
QPOWER AND INVISUS

THIS PSU SUPPLIES 4X 5V TO SERVO DIGITAL  
ANALOGUE ,RF AND HF CIRCUITS  
(R122 , R123 , R505 AND R107)

THIS SUPPLIES THE AUDIOCOM SUPERCLOCK 2  
POWER COMES FROM +20V @ C803

THIS SUPPLIES THE XTAL 5V REF ON THE DAC  
PIN 27

THIS SUPPLIES DAC AND DECODER 5V ON THE ANALOGUE  
RAILS (R511 AND U201)

THIS SUPPLIES DAC AND DECODER 5V ON THE DIGITAL  
RAILS (RD01 , RD04 AND R508)

SUPPLY OP AMPS DIRECT (CONNECTED @ R613 & R615)  
POWER FROM C803 +/- 20V

REF	VALUE	LOCATION	CHANGED FOR
C815	6.3V 3300uF	7805 O/P	6.3V 10000uF PANA FC
C805	16V 470uF	12V O/P	REMOVED - NO LONGER NEEDED
C806	16V 470uF	12V O/P	REMOVED - NO LONGER NEEDED
Q801	7812	12V O/P	REMOVED - NO LONGER NEEDED
Q802	7912	12V O/P	REMOVED - NO LONGER NEEDED
C814	16V 1000uF	10V AND 5V RAIL	16V 3300uF BLACK GATE CAP
C813	16V 4700uF	5V REG I/P	16V 4700uF BLACK GATE CAP
C803	35V 470uF SILMIC	MAIN CAPS	25V 4700uF PANA FC WITH 0.1uF X7R BYPASS CAP
C804	35V 470uF SILMIC	MAIN CAPS	25V 4700uF PANA FC WITH 0.1uF X7R BYPASS CAP
D801 - D804		RECTIFIER DIODES	HEXFRED HFA08TB60
D811 - D814		RECTIFIER DIODES	HEXFRED HFA08TB60

### OPAMPS

IC605 - 606 NJM2114D OPA627& OPA213 ON BROWNDog PCB

RD21-28	10K 5%		10K 0.1% PRECISION
R601-604	27K 5%		27K 0.1% PRECISION
R613-616	10ohm	OPAMP FEED	REMOVED FOR DIRECT REG INPUT
C601-604	120pF		SILVER MICA 120pF 1% TOL
CD21-24	120pF		SILVER MICA 120pF 1% TOL
C607-608	100pF		SILVER MICA 100pF 1% TOL
C659-660	100pF		SILVER MICA 100pF 1% TOL
R605-606	10K 5%		10K 0.1% PRECISION
R611-612	10K 5%		10K 0.1% PRECISION
R607-608	18K 5%		18K 0.1% PRECISION
R609-610	22K 5%		22K 0.1% PRECISION
C605-606	1000pF		SILVER MICA 1000pF 1% TOL
C611-614	25V 100uF CEREFANE		16V 470uF BLACK GATE

## DAC & DECODER

FITTED 10000pF X7R CAPS TO DAC ACROSS 5V RAILS TO GND

FITTED 0.01uF X7R CAP ACROSS PIN 2 AND 7 OF DAC ON CLOCK REF RAIL

REMOVED LARGE TRACK BETWEEN PIN 2 OF DAC AND CD04 - TO STOP TRACE PICKUP

FITTED AUDIOCOM SUPERCLOCK II - RUN ON DEDICATED 12V REG

R508		DECODER	REMOVED FOR +5V DIGITAL I/P FROM QPOWER REG
R510		DECODER	REMOVED FOR +5V ANALOGUE I/P FROM INVISUS REG
RD01		DAC	REMOVED FOR +5V XTAL REF I/P FROM SUPER REG
RD04		DAC	REMOVED FOR +5V DIGITAL I/P FROM QPOWER REG
U209		DAC	REMOVED FOR +5V ANALOGUE I/P FROM INVISUS REG
CD07	16V 220uF	DAC	16V 1000uF BLACK GATE
CD04	10V 220uF	DAC	16V 1000uF BLACK GATE
C510-511	10V 220uF	DECODER	16V 470uF BLACK GATE

## HDAM

HDAM BYPASSED WITH SILVER WIRE

R617-618			REMOVED
R651-658			REMOVED
R659-660	100ohm		10ohm
C651-654			REMOVED
C655-658		O/P CAPS	BYPASSED

LINKED PIN 7 OF OP AMPS TO R659-660

## SERVO HF RF MOTOR DRIVER

C120-122	16V 47uF	SERVO	16V 3300uF PANA FC
C153-154	16V 47uF	MOTOR DRIVER	16V 220uF SILMIC
C111-116	220pF	SERVO	220pF SILVER MICA 1% TOL
C117	1500pF	SERVO	1500pF SILVER MICA 1% TOL
C118	560pF	SERVO	560pF SILVER MICA 1% TOL
R114-119	10K 5%	SERVO	10K 0.1% PRECISION
R122-123	4.7ohm	SERVO	REMOVED FOR REG I/P
C507	47pF	HF AMP	47pF SILVER MICA 1% TOL
C505	2200pF	HF AMP	2200pF SILVER MICA 1% TOL
C502	390pF	HF AMP	390pF SILVER MICA 1% TOL
C501	150pF	HF AMP	150pF SILVER MICA 1% TOL
C504	220uF	HF AMP	16V 220uF SILMIC

R501-502	470ohm	HF AMP	470 ohm 0.1% PRECISION
R504	1.8K	HF AMP	1.8K 0.1% PRECISION
R506	2.7K	HF AMP	2.7K 0.1% PRECISION
R507	3.3K	HF AMP	3.3K 0.1% PRECISION
R509	2.2K	HF AMP	2.2K 0.1% PRECISION
R503	8.2K	HF AMP	8.2K 0.1% PRECISION
R505	100ohm	HF AMP	REMOVED FOR REG I/P
R110	470ohm	RF AMP	470ohm 0.1% PRECISION
R109	100ohm	RF AMP	100ohm 0.1% PRECISION
R103	330K	RF AMP	330K 0.1% PRECISION
R102	33K	RF AMP	33K 0.1% PRECISION
R108	1K	RF AMP	1K 0.1% PRECISION
R106	100ohm	RF AMP	100ohm 0.1% PRECISION
R105	1K	RF AMP	1K 0.1% PRECISION
R104	39K	RF AMP	39K 0.1% PRECISION
R111-112	120K	RF AMP	120K 0.1% PRECISION
R113	56K	RF AMP	56K 0.1% PRECISION
R107	330ohm	RF AMP	330ohm 0.1% PRECISION
C101	100pF	RF AMP	100pF SILVER MICA 1%
C102-103	47pF	RF AMP	47pF SILVER MICA 1% TOL
C105	150pF	RF AMP	150pF SILVER MICA 1% TOL
C108-109	150pF	RF AMP	150pF SILVER MICA 1% TOL
C104	18pF	RF AMP	18pF SILVER MICA 1% TOL
C110	330pF	RF AMP	330pF SILVER MICA 1% TOL
C106	10uF 25V	RF AMP	10uF 35V ELNA STARGET
R107 CONNECTED DIRECT TO REG			

## COAX MOD

REPLACED RF AND DIGITAL LINES AND REPLACED WITH COAX

U100 CONNECTED TO R501	RF TO HF
U193 CONNECTED TO C521	DAC CLOCK OUT TO DECODER CLOCK IN
U132 CONNECTED TO U188 AND THEN U171	SIDA DATA
U131 CONNECTED TO U189 AND THEN U172	SICK DATA

## OTHER

Q851	7918	DISPLAY	7912	DIMMER DISPLAY
D852	6.8V ZENER	DISPLAY	BYPASSED	DIMMER FURTHER

FITTED 0.47uF CAP AND VDR ACROSS LIVE - NEUTRAL  
 REMOVED MUTING TRANSISTORS  
 ALL RIBBONS AND ICS SHEILDDED AND GROUNDED  
 OUTPUT SOCKETS REPLACED WITH QUALITY ITEMS  
 STRUT BAR FITTED WITH DAMPING MATERIAL  
 CABINET FITTED WITH DAMPING MATERIAL  
 AUDIOCOM MAINS LEAD FITTED TO IEC SOCKET  
 CHASSIS CONNECTED TO EARTH  
 BONDED BOTTOM PLATE WITH ALUMINIUM PASTE