



Technical Manual

STEREO POWER AMPLIFIER

RB-971MKII

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Specification

Continuous Power Output.	(20-20 kHz, <0.03%, 8 ohms)	70 watts/ch.
	(20-20 kHz, <0.05%, 4 ohms)	95 watts/ch
Bridged Mono Power Output	(20-20 kHz, <0.1% THD, 8 ohms)	180 watts
Total Harmonic Distortion	(20 Hz-20 kHz, 8 ohms)	<0.03%
Intermodulation Distortion	(60 Hz : 7 kHz, 4:1)	<0.03%
Frequency Response		10-100,000 Hz, +1 dB
Damping Factor	(20-20,000 Hz, 8 ohms)	500
Speaker Impedance	(Normal mode)	4 ohms minimum
	(Bridged mode)	8 ohms minimum
Signal to Noise Ratio	(IHF A network)	116 dB
Input Impedance/Sensitivity		33 k Ohms/1.0 volt
Power Requirements		115 Volts, 60 Hz or 230 Volts 50 Hz
Power Consumption		250 watts
Dimensions (W, H, D,)		440 x 92 x 334 mm 17.38 x 4.76 x 13.3"
Weight (net)		7.2 kg / 15.84 lb.

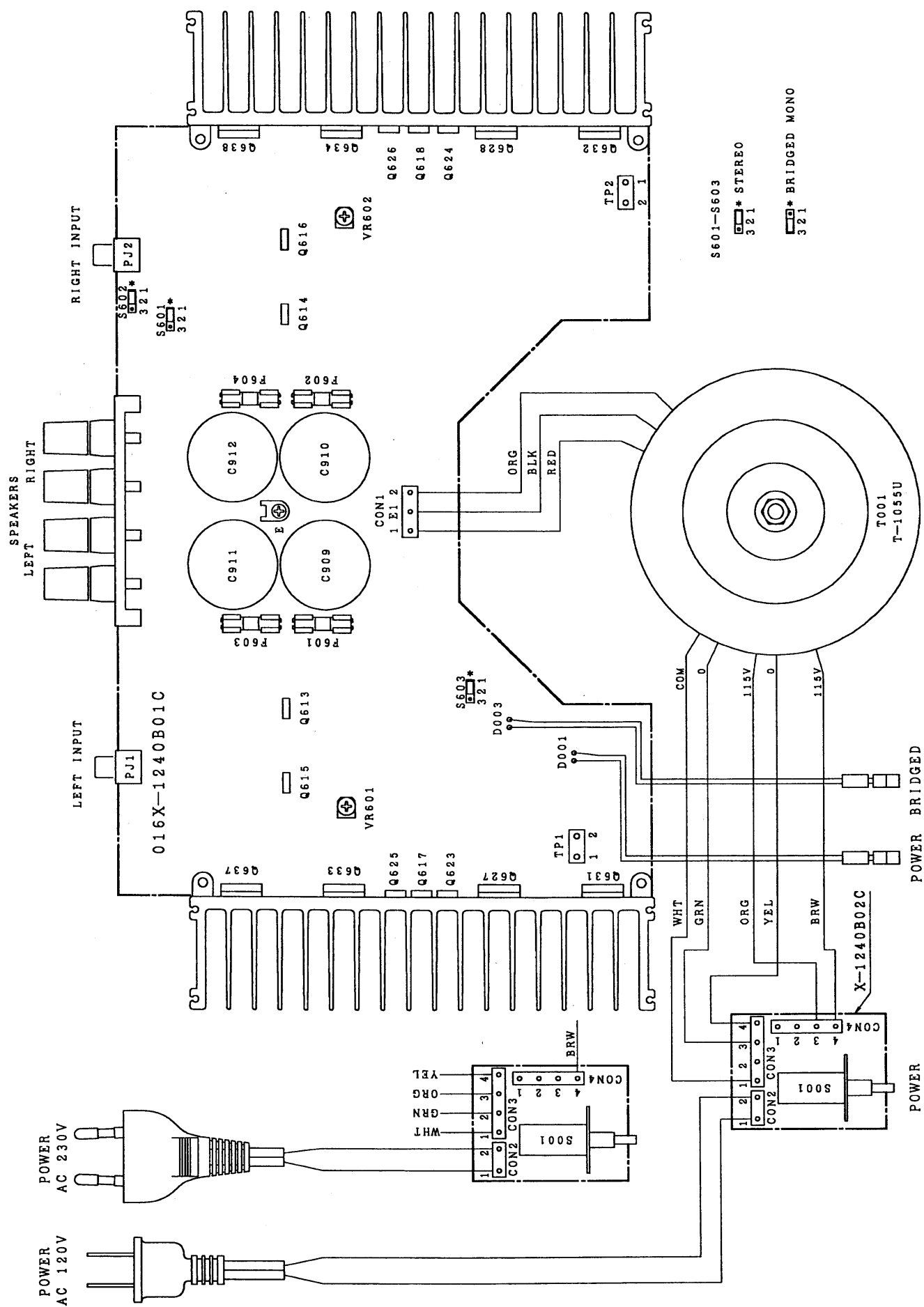
THE ROTEL CO., LTD

BUNZAN-SHINSEN-BLD.4F 10-10 SHINSEN-CHO, SHIBUYA-KU,
TOKYO 150-0045, JAPAN

Serial. NO.
Beginning

Y-330A-0008/G

Wiring Diagram



Parts List RB-971MK II

SYMBOL	PARTS NO.	DESCRIPTION
E-1240-01 PCB ASSEMBLY		
C601, 602	041 50BGF4R7M	CAP, ELEC. 50V4.7 μ F
C603, 604	044 TFKP2-100V681H	CAP, FILM 100V680PF
C605, 606	044 LFSC160V221H	CAP, STYROL 160V220PF
C607, 608	041 25BGF100M	CAP, ELEC. 25V100 μ F
C609, 610	044 LFSC160V331H	CAP, STYROL 160V330PF
C611, 612	041 50BGF10M	CAP, ELEC. 50V10 μ F
C613-616	044 LFSC160V561H	CAP, STYROL 160V560PF
C617, 618	044 LFSC 160V471H	CAP, STYROL 160V470PF
C623, 624	044 MKT18-100V104K	CAP, FILM 100V0.1 μ F
C803, 804	041 GS50V4R7-B	CAP, ELEC. 50V4.7 μ F
C901-908	043 LTC500V103	CAP, CERA. 500V0.01 μ F
C909-912	041 ALC20S1022DF	CAP, ELEC. 50V8200 μ F
D601-608	034 LT1N4148-86	DIODE
D609-612	034 LT1N4003-TB	DIODE
D803, 805	034 LT1N4003-TB	DIODE
D901, 902	034 LBR84	POWER DIODE
F601-604	036 5T3.15	MINI FUSE 250V3.15A
PJ1	066 L4TR-2487#8	1P PIN JACK (WHT)
PJ2	066 L4TR-2487#7	1P PIN JACK (RED)
Q601-606	033 LT2SC2362KAA-FG	TRANSISTOR
Q607-612	033 LT2SA1016KAA-FG	TRANSISTOR
Q613, 614	033 LS2B631K-EF	TRANSISTOR
Q615, 616	033 L2SD600K-EF	TRANSISTOR
Q619, 620	033 T2SC3478T-LKU	TRANSISTOR
Q621, 622	033 T2SA1376T-LKU	TRANSISTOR
R601, 602	054 LEE10-102	R, METAL 1K
R603, 604	054 LEE10-333	R, METAL 33K
R605, 606	054 LEE10-471	R, METAL 470R
R607-610	054 LTMK201K5FECZ	R, METAL 1% 1.5K
R611, 612	054 LTMK2220RFECZ	R, METAL 1% 220R
R613, 614	054 LTMF1/4-5600F	R, MRS25 560R
R615-618	054 LTMK201K5FECZ	R, METAL 1% 1.5K
R619, 620	054 LTMK2220RFECZ	R, METAL 1% 220R
R621, 622	054 LTMK2047KFECZ	R, METAL 1% 47K
R623, 624	054 LTMK2100RFECZ	R, METAL 1% 100R
R625, 626	054 LTMF1/4-6801F	R, MRS25 6.8K
R627, 628	054 LTMF1/4-3901F	R, MRS25 3.9K
R629, 630	054 LTMK2100RFECZ	R, METAL 1% 100R
R631, 632	054 LTMK2001KFECZ	R, METAL 1% 1K
R633, 634	054 LTMK2047RFECZ	R, METAL 1% 47R
R635, 636	054 NIR2-0.221F	R, METAL 2W 0.22R
R639-422	054 NIR2-0.221F	R, METAL 2W 0.22R
R645, 646	054 NIR2-0.221F	R, METAL 2W 0.22R
R647, 648	054 IWS101F	R, METAL 1W 10R
R651, 652	054 LTMK2012KFECZ	R, METAL 1% 12K
R653, 654	054 LTMF3300	R, METAL 330R
R655-658	054 LTMK2220RFECZ	R, METAL 1% 220R
R661	054 LTMK2012KFECZ	R, METAL 1% 12K
R810, 819	054 IWS6.8K1F	R, METAL 1W 6.8K
S601-603	068 TD-03SG	3P CONNECTOR WAFER
VR601, 602	051 LVM6CKPV1S2.2K	SEMI-FIXED RESISTOR
	067 4TR-3090	SPEAKER TERMINAL
	068 DM-2GM-O	2P SHORT SOCKER
	069 C-3417A	FUSE CLIP
E-1240-02 PCB ASSEMBLY		
C001	044 DE7150F472M	SPARK KILLER
S001	061 LC-4176A08	POWER SWITCH
HEAT SINKER ASSEMBLY		
Q617, 618	032 2SD1953	TRANSISTOR
Q623, 624	033 2SC4793-M	TRANSISTOR
Q625, 626	033 2SA1837-M	TRANSISTOR
Q627, 628	033 L2SD1047-DE	POWER TRANSISTOR
Q631, 632	033 L2SD1047-DE	POWER TRANSISTOR

SYMBOL	PARTS NO.	DESCRIPTION
Q633, 634	033 L2SB817-DE	POWER TRANSISTOR
Q637, 638	033 L2SB817-DE	POWER TRANSISTOR
	017 RM4-18A00	HEAT SINKER BOARD
	019 T0-220	INSULATION SHEET (S)
	019 T0-3P	INSULATION SHEET (L)
OTHERS		
	011 FP-518	FRONT PANEL ASSY
	012 L4TQF-15	POWER BUTTON 14X14
	014 C-4550A08	UPPER COVER
	014 L4TR-2797#2	ORNAMENT SIDE BOARD
	014 RM4-07B00	BOTTOM BOARD
	015 RP-372	REAR CHASSIS
	019 L4TSH-19#2	PLASTIC FOOT 50F
	019 4TR-2823#2	PLASTIC FOOT 24F
	022 T-1055U01	POWER TRANSFORMER
	072 L4TR-670#5	AC CORD for STD
	072 LC-3763	AC CORD for AUSTRALIA
	072 C-4572A01	AC CORD for UK
	072 C-4573A01	AC CORD for CEE
	081 RM4-21A01	INSIDE CARTON
	081 T2-165	STYROL SIDE MOULDING

Adjustment

Instruments : DC milli-voltmeter

Notes : Prior to Bias Adjustment, run about 5minutes with rated output(8ohms) and warm up Power Transistor and Heat Sink. Set input off.

Step	Coupling		Location	Adjust	Adjust for
	Plus Lead	Minus Lead			
1	TP1-1	TP1-2	X-1240-01 PCB	VR601	DC milli-voltmeter reads 5mV
2	TP2-1	TP2-2	X-1240-01 PCB	VR602	



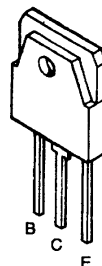
2SA1016K
2SC2362K
2SA1376
2SC3478



2SA1837
2SC4793



2SB631K
2SD600K
2SD1953



2SB817
2SD1047

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