

Quality Uncompromised

ROTEL®

Technical Manual

SURROUND SOUND PROCESSOR RSP-1068

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Specifications

Audio

Total Harmonic Distortion

<0.008%

Intermodulation Distortion (60 Hz: 7kHz)

<0.008%

Frequency Response

10 Hz - 120 kHz, ± 3 dB (Analog Bypass)

10 Hz - 95 kHz, ± 3 dB (Digital Input)

Signal to Noise Ratio (IHF A-weighted)

95 dB (Analog Bypass)

92 dB (Dolby Digital, dts) 0dBFs

Input Sensitivity/Impedance

Line Level: 200 mV/100 kohms

Contour (LF/ HF)

± 6 dB at 50 Hz/15 kHz

Preamp Output Level/Output Impedance

1.0 V / 1K ohms (200 mV Input)

Video

Frequency Response

3 Hz - 10 MHz, ± 3 dB (Video Input)

3 Hz - 10 MHz, ± 3 dB (Component Input)

Signal to Noise Ratio

45 dB

Input Impedance

75 ohms

Output Impedance

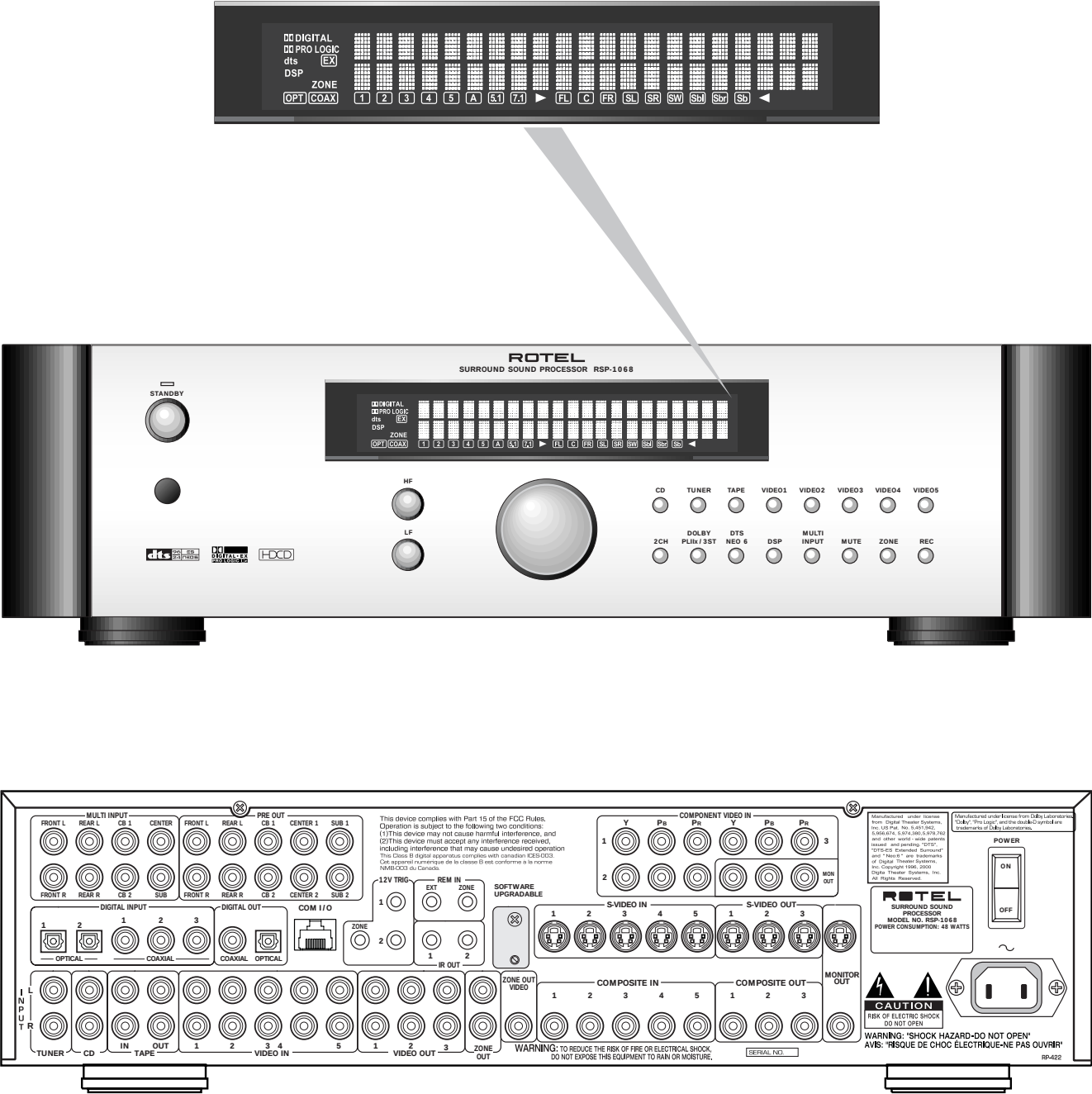
75 ohms

Output Level

1 volt

General

Power Consumption:</



SYMBOL	PARTS NO.	DESCRIPTION
016 E-1389C00 PCB ASSY		
	501 E-1389	PCB ASSY (MAIN)
L801	021 LAL02TB100M	MICRO INDUCTOR 10uH
L802	021 LAL02TB101M	MICRO INDUCTOR 100uH
XT801	023 HC49U-001WR	CRYSTAL 14.31818MHZ
IC803	031 KS5520-1	IC (SCREEN DISPLAY)
IC206-213,703-706,711-714	031 NJM5532M	IC SMD (OPE AMP)
IC901-903,909	031 NJM7805FA	IC (REGULATOR +5VDC)
IC905	031 NJM7806FA	IC (REGULATOR +6VDC)
IC908	031 NJM7812FA	IC (REGULATOR +12VDC)
IC907	031 NJM7818FA	IC (REGULATOR +18VDC)
IC904	031 NJM7906FA	IC (REGULATOR -6VDC)
IC906	031 NJM7918FA	IC (REGULATOR -18VDC)
IC702	031 TC9162AF	IC SMD (SWITCH ALLEY) KIC9162AF
IC201-204,701,801,802	031 TC9163AF	IC SMD (SWITCH ALLEY) KIC9163AF
IC205	031 TC9459F	IC SMD (VOLUME) KIC9459F
IC709,710	031 TC9482F	IC SMD (VOLUME) KIC9482
IC214-221,707,708	031 TL072CD	IC SMD (OPE DUAL)
IC804,805	031 TSH94ID	IC SMD (VIDEO AMP)
Q203,206,209,212,216	032 KRA107S	TRANSISTOR CHIP KRA107S
Q802,803	032 KRC107S	TRANSISTOR CHIP KRC107S
Q201,202,204,205,207,208,210,211,Q213-215,217	032 KRC231S	TRANSISTOR CHIP KRC231S
Q801	032 KTA1271	TRANSISTOR KTA1271
Q902	032 TC3708-ST	TRANSISTOR 2SC3708AA-ST
D901-910,913,914,918,919,926-929,930-933	034 T1N4003-TB	DIODE 1N4003-E
D915,917	034 T1N4148-86	DIODE 1N4148TAP-50
D920	034 TRD12JST1	Z

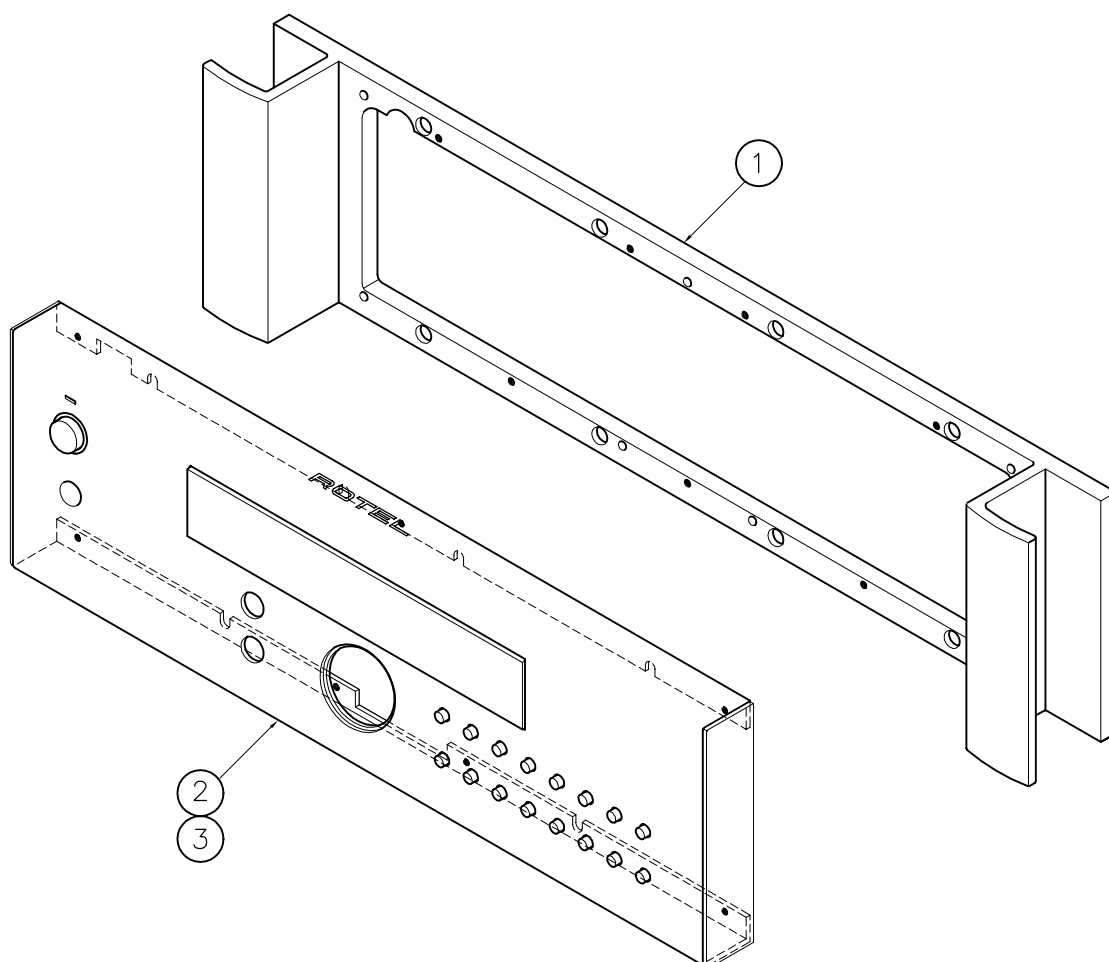
SYMBOL	PARTS NO.	DESCRIPTION
R204,208,212,216,220,224,228,232,236,240	055 ERJ6GEYJ221V	RESISTOR CHIP 220
R244,248,252,256,260,264,285-306,310,311	055 ERJ6GEYJ221V	RESISTOR CHIP 220
R315,316,320,321,362-375,385-387,391,701	055 ERJ6GEYJ221V	RESISTOR CHIP 220
R702,706,707,711,712,716,717,811,812,816	055 ERJ6GEYJ221V	RESISTOR CHIP 220
R817,RB701,702,RCB703,704,RCW701-704	055 ERJ6GEYJ221V	RESISTOR CHIP 220
RF701-704,RMW701,702,RS701-704	055 ERJ6GEYJ221V	RESISTOR CHIP 220
RBL/R710,RCT710,RFL/R710,RSL/R710,R853	055 ERJ6GEYJ222V	RESISTOR CHIP 2.2K
R858	055 ERJ6GEYJ223V	RESISTOR CHIP 22K
RMW708	055 ERJ6GEYJ273V	RESISTOR CHIP 27K
R857	055 ERJ6GEYJ2R2V	RESISTOR CHIP 2.2
RMF709,710	055 ERJ6GEYJ302V	RESISTOR CHIP 3K
R279,284	055 ERJ6GEYJ331V	RESISTOR CHIP 330
RSW704	055 ERJ6GEYJ332V	RESISTOR CHIP 3.3K
R266,271,276,281,325,329,333,337,341	055 ERJ6GEYJ334V	RESISTOR CHIP 330K
R345,349,353,376,377	055 ERJ6GEYJ334V	RESISTOR CHIP 330K
R860,RFL/R704	055 ERJ6GEYJ392V	RESISTOR CHIP 3.9K
R269,274	055 ERJ6GEYJ471V	RESISTOR CHIP 470
R828,835,841,853	055 ERJ6GEYJ472V	RESISTOR CHIP 4.7K
R852	055 ERJ6GEYJ512V	RESISTOR CHIP 5.1K
R801-810,838	055 ERJ6GEYJ750V	RESISTOR CHIP 75
JK802,803	066 4TR-2964#10	3P PIN JACK (YEL)
JK204,205	066 C-4784A01	4P PIN JACK (R/W)
JK201-203	066 C-4792A01	6P PIN JACK (W/R)
JK801	066 C-4860A01	4P PIN JACK (YEL)
CP904	068	

SYMBOL	PARTS NO.	DESCRIPTION
	011 TH3-01B00	H/S PANEL H=109
	012 C-4844A01	KNOB 10Φ (BLACK)
	012 C-4844A02	KNOB 10Φ (SILVER)
	012 C-4845A01	KNOB 33Φ (BLACK)
	012 C-4845A02	KNOB 33Φ (SILVER)
	012 RV4-09A00	PUSH BUTTON 14Φ (BLACK)
	012 RV4-09A01	PUSH BUTTON 14Φ (SILVER)
	012 TB3-18A00	TACT BUTTON 16 KEY (BLACK)
	012 TB3-18A01	TACT BUTTON 16 KEY (SILVER)
	014 C-4716A00	SIDE CAP H=109MM (BLACK)
	014 C-4723A04	UPPER COVER
	019 4TQF-17	KNOB RING (RED) 33Φ
	019 4TQF-17#2	KNOB RING (BLU) 33Φ
	019 4TSH-19#2	PLASTIC FOOT 50Φ BLACK
	019 4TTL-15	PUSH BUTTON CONNECTOR 18.5L
	019 C-4714A00	POWER KNOB RING 14Φ (BLACK)
	019 C-4714A01	POWER KNOB RING 14Φ (SILVER)
	022 T-1095N01	POWER TRANSFORMER
	034 SEL1124R	LED (RED) 1X5
	034 SEL1E24W	LED (BLU) 1X5
	061 C-4838A00	ROCKER SWITCH SR1N6BB
	069 C-4629A01	AC 2P INLET 6102.3100 (WIRING)
	072 C-4621A01	AC CORD SET SJT AWG16/2C for USA
	072 C-4622A01	AC CORD SET for AUSTRALIA
	072 C-4624A01	AC CORD SET for EUROPE
	072 C-4738A01	PIN PLUG CORD
	072 C-4786A01	COMPUTER I/O CABLE (6-P)
	081 UV3-06A00	INSIDE CARTON
	081 UV3-07A00	SHIPPING CARTON
	081 Z-204	STYROL MOULDING
	082 OMRSP-1068	OWNER'S MANUAL
	092 RR-1050	REMOTE CONTROL UNIT

Addendum List for Black and Silver

RSP-1068

SYMBOL	PARTS	DESCRIPTION
③	011 FP-566-B	BLACK PANEL ASSY
②	011 FP-566-S	SILVER PANEL ASSY
①	011 TH3-01B00	H/S PANEL H109
	012 C-4751A00	KNOB 10F (BLK)
	012 C-4751A01	KNOB 10F (SLV)
	012 C-4752A03	KNOB 33F NO LINE (BLK)
	012 C-4752A03S	KNOB 33F NO LINE (SLV)
	012 RV4-09A00	PUSH BUTTON 14F (BLK)
	012 RV4-09A01	PUSH BUTTON 14F (SLV)
	012 TB3-18A00	TACT BUTTON 16 KEY (BLK)
	012 TB3-18A01	TACT BUTTON 16 KEY (SLV)
	034 SEL1124R	LED (RED) 1X5
	034 SEL1E24W	LED (BLU) 1X5



<MEMO>

1. Light-up ALL FL segments to check:

Press “2CH” and “MUTE” of front panel while turn on the rear panel master power switch. When release the lighting, press STANDBY switch or master power switch.

