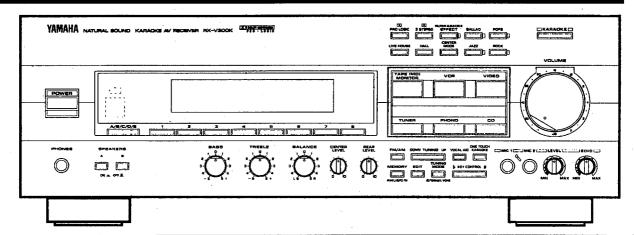
AV RECEIVER

RX-V300K/R-V302K

SERVICE MANUAL





IMPORTANT NOTICE

This manual has been provided for the use of authorized YAMAHA Retailers and their service personnel. It has been assumed that basic service procedures inherent to the industry, and more specifically YAMAHA Products, are already known and understood by the users, and have therefore not been restated.

WARNING:

Failure to follow appropriate service and safety procedures when servicing this product may result in personal injury, destruction of expensive components, and failure of the product to perform as specified. For these reasons, we advise all YAMAHA product owners that any service required should be performed by an authorized YAMAHA Retailer or the appointed service representative.

IMPORTANT:

The presentation or sale of this manual to any individual of firm does not constitute authorization, certification or recognition of any applicable technical capabilities, or establish a principle-agent relationship of any form.

The data provided is believed to be accurate and applicable to the unit(s) indicated on the cover. The research, engineering, and service departments of YAMAHA are continually striving to improve YAMAHA products. Modifications are, therefore, inevitable and specifications are subject to change without notice or obligation to retrofit. Should any discrepancy appear to exist, please contact the distributor's Service Division.

WARNING:

Static discharges can destroy expensive components. Discharge any static electricity your body may have accumulated by grounding yourself to the ground buss in the unit (heavy gauge black wires

IMPORTANT: Tu

Turn the unit OFF during disassembly and part replacement. Recheck all work before you apply power

to the unit

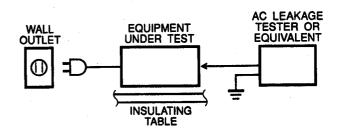
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■ TO SERVICE PERSONNEL

- Critical Components information.
 Components having special characteristics are marked nust be replaced with parts having specifications equal to those originally installed.
- Leakage Current Measurement (For 120V Model only).
 When service has been completed, it is imperative that you verify that all exposed conductive surfaces are properly insulated from supply circuits.
- Meter impedance should be equivalent to 1500 ohm shunted by 0.15 μF.
- Leakage current must not exceed 0.5mA.
- Be sure to test for leakage with the AC plug in both polarities.



"CAUTION"



"F101 : FOR CONTINUED PROTECTION AGAINST RISK OF FIRE, REPLACE ONLY WITH SAME TYPE 5.0A, 125V FUSE (U,R models), 1.6A 125V FUSE (L model)"

"F102 : FOR CONTINUED PROTECTION AGAINST RISK OF FIRE, REPLACE ONLY WITH SAME TYPE 2.5A,250V FUSE

"F103 : FOR CONTINUED PROTECTION AGAINST RISK OF FIRE, REPLACE ONLY WITH SAME TYPE 1.6A,250V FUSE (R model)"

WARNING: CHEMICAL CONTENT NOTICE!

The solder used in the production of this product contains LEAD. In addition, other electrical/electronic and/or plastic (Where applicable) components may also contain traces of chemicals found by the California Health and Welfare Agency (and possibly other entities) to cause cancer and/or birth defects or other reproductive harm.

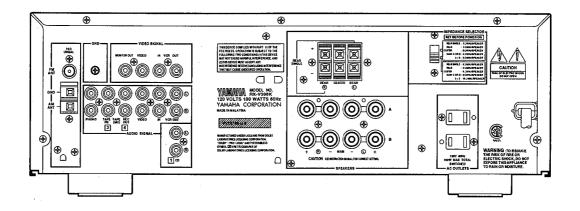
DO NOT PLACE SOLDER, ELECTRICAL/ERECTRONIC OR PLASTIC COMPONENTS IN YOUR MOUTH FOR ANY REASON WHATSOEVER!

Avoid prolonged, unprotected contact between solder and your skin! When soldering, do not inhale solder fumes or expose eyes to solder/flux vapor!

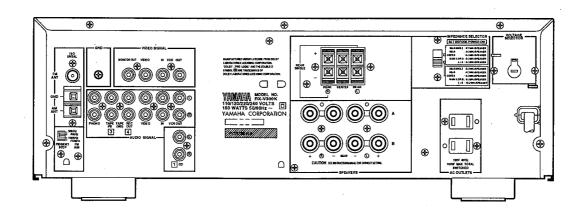
If you come in contact with solder or components located inside the enclosure of this product, wash your hands before handling food.

REAR PANELS

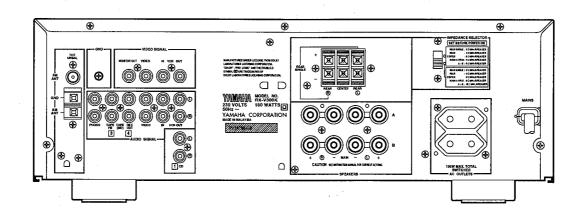
▼RX-V300K U model



▼RX-V300K/R-V302K R, T models



▼RX-V300K L model



SPECIFICATIONS

■AUDIO SECTION	
Minimum RMS output Power per Cha	nnel
Main L, R	
8 Ohms, 20 Hz to 20 kHz, 0.04% THI	
U model	60W + 60W
R,L,T models	55W + 55W
Center	
8 ohms, 1 kHz, 0.1% THD	00144
U model	60W
R,L,T models	55W
Rear 8 ohms, 1kHz, 0.7% THD	20W
	2011
Dynamic Power Per Channel (IHF) 8/6/4/2Ω	80/100/120/140W
Power Band Width	
0.1% THD, 30W,8Ω	10Hz to 50kHz
Damping Factor (SP A)	
20Hz to 20kHz, 8Ω	80 or more
Maximum Power (EIAJ)	00 01 111010
R,T models	
MAIN 2, R, 1kHz, 10% THD, 8Ω	85W+85W
CENTER, 1kHz, 10% THD, 8 Ω	85W
REAR, 1kHz, 10% THD, 8Ω	35W
	-
Input Sensitivity/Impedance PHONO MM	2 5m\//47kO
CD/TAPE(MD)/VIDEO/VCR	2.5mV/47kΩ 150mV/47kΩ
• •	
MIC 1, 2	45μV/32kΩ
Maximum Input Signal Level (1kHz)	20.14
PHONO MM, 0.04% THD	90mV
MIC1, 2,0.1% THD	30mV
Headphones Jack Rated Output/Imped 0.04% THD, 8Ω	d ance 0.49V/330Ω
	0.70 7700011
Frequency Response (20Hz to 20kHz) CD/TAPE(MD)/VIDEO/VCR	0±0.5dB
	0±0.30D
RIAA Equalization Deviation	0.0 540
PHONO MM	0±0.5dB
Total Harmonic Distortion (20Hz to 20Hz)	•
PHONO MM to REC OUT (1V)	0.02%
CD/TAPE(MD)/VIDEO/VCR to SP OL	$JT(30W/8\Omega) = 0.02\%$
Signal-to-Noise Ratio (IHF-A-Network)	
PHONO MM,(5mV Input Shorted),RE	
CD/TAPE(MD)/VIDEO/VCR(Shorted)	, SP OUT 93dB
Residual Noise (IHF-A-Network)	
MAIN L/R	140µV
Channel Separation (Vol30dB, EFFEC	T OFF)
PHONO MM(Input Shorted), 1kHz	60dB
CD/TAPE(MD)/VIDEO/VCR(Input 5.1kΩ ter	
Tone Control Characteristics	
BASS :Boost/Cut	±10dB (50Hz)
:Turnover Frequency	350Hz
TREBLE :Boost/Cut	±10dB (20kHz)
:Turnover Frequency	3.5kHz
Key Control Pitch	±3 notes, 13 steps
Gain Tracking Error (0~-60dB)	3dB

Delay Time	
MIC ECHO	150 msec.
BALLAD, POPS, JAZZ, ROCK	1 to 50 msec.
LIVE HOUSE, HALL	1 to 100 msec.
PRO LOGIC	15 to 30 msec.
Tuner Output Level/Impedance (Fixed) U,R,T models	
FM (100% mod, 1kHz)	500mV/2.2kΩ
AM (30% mod, 1kHz)	150mV/2.2kΩ
L model (FM 40kHz Dev)	
FM (100% mod, 1kHz)	400mV/2.2k Ω
AM (30% mod, 1kHz)	150mV/2.2kΩ
■FM SECTION	
Tuning Range	7.50 1 407.0141
	7.50 to 107.9MHz
	50 to 108.00MHz
50dB Quieting Sensitivity (IHF,75Ω) U,R,T models	
Mono	1.55µV (15.1dBf)
Stereo	21μV (37.7dBf)
	21µV (37.70DI)
Usable Sensitivity (75Ω)	
U,R,T models 30dB S/N Quieting, 1kHz, 100% mod.	U 011/1 (U 04Bt)
L model	0.8μV (9.3dBf)
	0.001
DIN, Mono (S/N 26dB)	0.9µV
DIN, Stereo (S/N 46dB)	24µV
Image Response Ratio	4.FID
U,R,T models	45dB
L model	80dB
IF Response Ratio	80dB
Spurlous Response Ratio	70dB
AM Suppression Ratio	55dB
Capture Ratio	1.5dB
Alternate Channel Selectivity U,R,T models	85dB
Selectivity (two signals, 40kHz Dev. ±30	0kHz)
L model	70dB
Signal-to-Noise Ratio	
Mono/Stereo(IHF)	
U,R,T models	80/75dB
Mono/Stereo(DIN-weighted, 40kHz Dev.	.)
L models	74/69dB
Harmonic Distortion	
Mono/Stereo (1kHz)	0.1/0.2%
Stereo Separation (1kHz)	50dB
Frequency Response	
30Hz to 15kHz	0±0.5dB
■AM SECTION	
Tuning Range	
U,R,T models	530 to 1710kHz
L model	531 to 1611kHz
Usable Sensitivity	
Osable Sensitivity	100μV/m

Selectivity	32dB
Signal-to-Noise Ratio	50dB
Image Response Ratio	40dB
Spurious Response Ratio	50dB

Harmonic Distortion (1kHz) 0.3% **VIDEO SECTION Video Signal Type** U model **NTSC** R,T models NTSC/PAL L model PAL Video Signal Level 1Vp-p/75Ω **Maximum Input Level** 1.5Vp-p or more Signal-to-Noise Ratio 50dB or more Monitor Out Frequency Response (-3dB) 5Hz-10MHz

GENERAL

Power Consumption	180W
L model	AC230V, 50Hz
R,T models	AC110/120/220/240V, 50/60Hz
U model	AC120V, 60Hz
Power Supply	

Maximum Power Consumption

R,T models

5CH Simultaneous output, 8Ω,1kHz,10%THD 500W

AC Outlet

Switched x 2 100W max (Total)

Dimensions (W x H x D) 435 x 151 x 266.5mm (17/1/8" x 5-15/16" x 10-1/2")

Weight 7.8kg (17lbs. 3oz)

Accessorries AM loop antenna x 1

Indoor FM antenna x 1
Remote Control Transmitter x 1

Battery (size "AA", "R06") Antenna adapter (U model only)

*Specifications subject to change without notice.

U U.S.A model

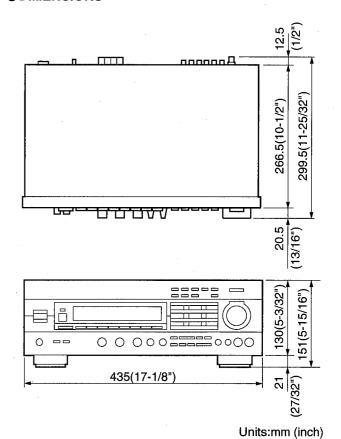
R General model

L Singapore model

T China model

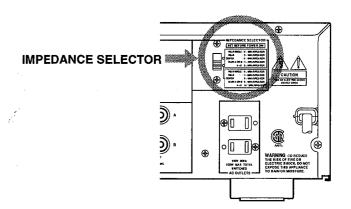
Manufactured under license from Dolby Laboratories Licensing Corporation.

DIMENSIONS

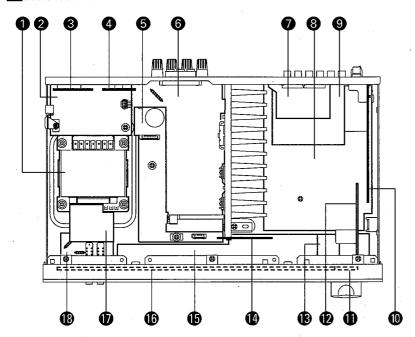


WARNING

Do not change the IMPEDANCE SELECTOR switch setting while the power to this unit is on. Otherwise this unit may be damaged.



■INTERNAL VIEW



- **1** POWER TRANSFORMER
- MAIN P.C.B. ASS'Y (2)
- MAIN P.C.B. ASS'Y (4) (R,T models)
- 4 MAIN P.C.B. ASSY (5)
- **5** MAIN P.C.B. ASS'Y (1)
- 6 INPUT P.C.B. ASS'Y (4)
- OPERATION P.C.B. ASS'Y (3)
- (1) INPUT P.C.B. ASS'Y
- 9 INPUT P.C.B. ASS'Y (2)
- TUNER P.C.B. ASS'Y
- OPERATION P.C.B. ASS'Y (5)
- POPERATION P.C.B. ASS'Y (4)
- (3) OPERATION P.C.B. ASS'Y
- 1 OPERATION P.C.B. ASS'Y (6)
- (1) OPERATION P.C.B. ASS'Y (2)
- (1) OPERATION P.C.B. ASS'Y
- INPUT P.C.B. ASS'Y (5)
- (3) MAIN P.C.B. ASS'Y

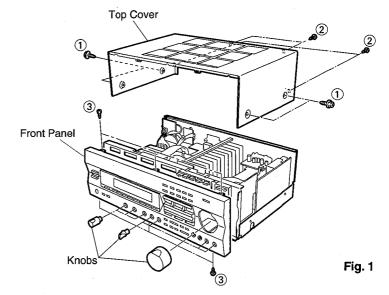
DISASSEMBLY PROCEDURES (Remove parts in the order as numbered.)

1. Removal of Top Cover

Remove 4 screws (1) and 4 screws (2) in Fig. 1.

2. Removal of Front Panel

- a. Remove 8 knobs.
- b. Remove 6 screws (3) in Fig. 1.



3. Removal of Rear Pamel

Remove 23 (U, L models), 25 (R,T models) screws (4) in Fig.

* The MAIN, INPUT, TUNER P. C. B. can be removed in this state.

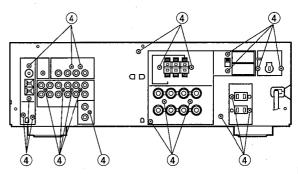


Fig. 2

4. Checking and Parts Replacement of Main Unit

- a. Disconnect the power cord from the AC outlet.
- b. Remove 2 screws (5) and 1 screw (6) in Fig. 3.
- c. Detach 1 connector terminal (CB103) in Fig.3
- d. Operating checks can be taken by shorting between following test points in Fig.3.

Short Point		
TP101 and TP102		
TP103 and TP104		
TP105 and TP106		

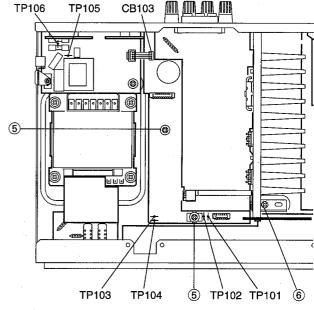
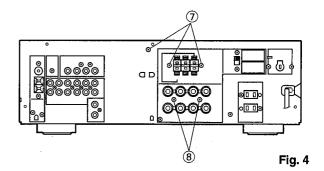
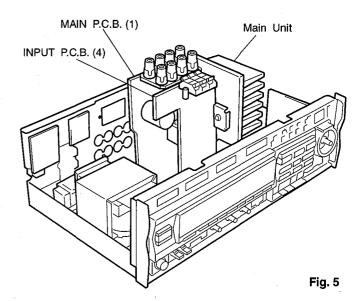


Fig. 3

- e. Remove 3 screws ($\textcircled{\scriptsize{1}}$) and 2 screws ($\textcircled{\scriptsize{8}}$) in Fig. 4.
- f. Place the Main Unit on its side as shown in Fig. 5.
- g. Connect the power cord and turn ON the POWER switch.





■ SELF CHECK MODE

1. STARTING

Turn ON the POWER switch while pressing LIVE HOUSE key & CENTER MODE key simultaneously, and then the unit enters DIAG1 MODE.

2. INDEX OF DIAG MODE

DIAG1	AUDIO SECTION MODE					
	DIAG1-1	ALL CHANNEL OUTPUT MODE All channels have output.				
	DIAG1-2	EFFECT OFF MODE ONLY L & R channels have output.				
DIAG2	PRO LOGIC M	1ODE				
DIAG3	KARAOKE TE	ST MODE				
	DIAG3-1	KARAOKE EFFECT OFF MODE L, R & S channels have output through YSS-205B.				
	DIAG3-2	VOCAL CUT MODE Vocal eliminated when MIC INPUT is added.				
	DIAG3-3	DIAG3-3 MPX Lch MODE The Rch INPUT is eliminated and the Lch INPUT is sent to both Lch and Rch output when MIC INPUT is added.				
	DIAG3-4	MPX Rch MODE The Lch INPUT is eliminated and the Rch INPUT is sent to both Lch and Rch output when MIC INPUT is added.				
	DIAG3-5	KEY CONTROL +6 MODE				
	DIAG3-6	DIAG3-6 KEY CONTROL –6 MODE				
DIAG4	DIAG4 MIC INPUT TEST MODE					
	DIAG4-1	MIC DIRECT MODE MIC INPUT is sent to L,R output directly.				
	DIAG4-2	MIC ECHO MODE MIC INPUT is sent to L,R output through YSS-205B. Under this condition, ECHO LEVEL VOLUME is effective.				
DIAG5	TEST TONE M	MODE				
DIAG6	FL TEST MOD	DE .				
TE	DIAG6-1	ALL SEGMENT ON MODE All segments of FL are lighted up.				
	DIAG6-2	ALL SEGMENT OFF MODE All segments of FL are extinguished.				
DIAG7	MAKER PRES	SET MODE				
DIAG8	INDICATION (OF DESTINATION MODE				

3. CHANGE OF DIAG MODE

Press P1-P8 key.

DIAG1	P1
DIAG2	P2
DIAG3	P3
DIAG4	P4
DIAG5	P5
DIAG6	P6
DIAG7	P7
DIAG8	P8

Protection circuit (description of messages)

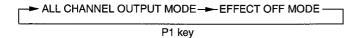
When the DIAG mode is entered, two types of the final message will appear.

- 1. I..... Overcurrent
- 2. DC

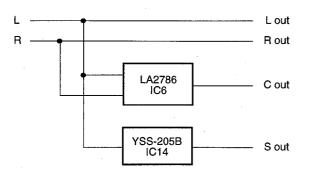
To initialize the message:

- (1) Note the frequencies preset to the tuner which have been set by user in advance.
- (2) Discharge backup capacitor C311.

DIAG1 AUDIO SECTION MODE



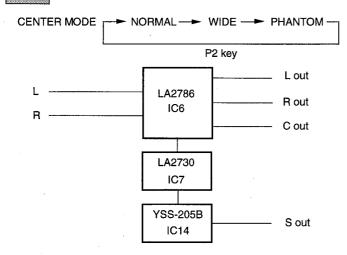
• DIAG1-1 ALL CHANNEL OUTPUT MODE



• DIAG1-2 EFFECT OFF MODE



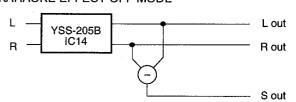
DIAG2 PRO LOGIC MODE



KARAOKE TEST MODE KARAOKE EFFECT OFF MODE VOCAL CUT MODE MPX Lch MODE MPX Rch MODE KEY CONTOROL +6 KEY CONTOROL -6

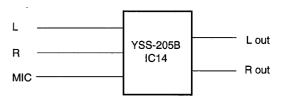
• DIAG3-1

KARAOKE EFFECT OFF MODE



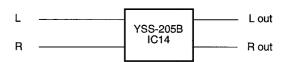
• DIAG3-2, 3-3, 3-4

VOCAL CUT MODE, MPX Lch MODE, MPX Rch MODE

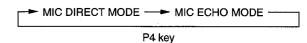


• DIAG3-5, 3-6

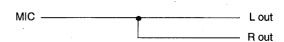
KEY CONTROL +6 MODE, KEY CONTROL -6 MODE



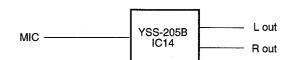
DIAG4 MIC TEST MODE



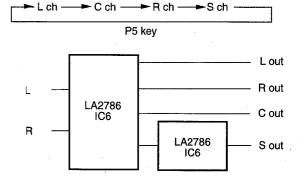
• DIAG4-1 MIC DIRECT MODE

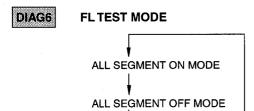


• DIAG4-2 MIC ECHO MODE



DIAG5 TEST TONE MODE





DIAG7

FACTORY PRESET MODE

If POWER is switched off under DIAG7, Factory preset is set. (User programming is erased.)

DIAG8

INDICATION OF DESTINATION

Destination is indicated. If P8 key is pushed, DIAG MODE is finished and goes to normal operation mode.

Factory Preset

1) TUNER section

Preset group	P1	P2	Р3	P4	P5	P6	P7	P8
A,C,E	87.5MHz	90.1MHz	95.1MHz	98.1MHz	U,R,T :107.9MHz R,L :108.0MHz	88.1MHz	1 1 0 0 . 1 1 7 11 12	U,R,T :107.9MHz R,L,T :108.0MHz
B,D	630kHz	1080kHz	1440kHz	U,R,T:530kHz L,R,T:531kHz	U,R :1710kHz L,R,T :1611kHz	900kHz	1350kHz	U,R,T :1400kHz L,R,T :1404kHz

All tuning modes are AUTO TUNING and AUTO STEREO.

2) SURROUND section

DELAY TIME	: DPRO LOGIC20ms
	(Factory-set surround mode)

 LIVE HOUSE
 20ms

 HALL
 20ms

 BALLAD
 20ms

 POPS
 20ms

 JAZZ
 20ms

 ROCK
 20ms

CENTER MODE :

: NORMAL

3) SELECTOR section

INPUT : CD MONITOR OUT : LD

ADJUSTMENTS

● Measuring Instruments

FM signal generator (FM SG)

Stereo signal generator (SSG)

AM signal generator (AM SG)

Distortion meter (DIST. M)

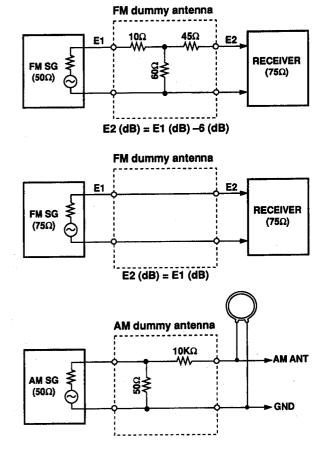
AC voltmeter (ACVM)

DC voltmeter (DCVM)

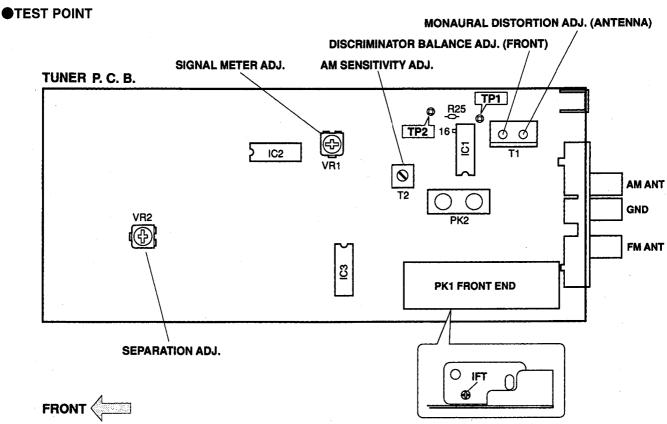
Oscilloscope

Low pass filter (YLF-15, fc=15kHz)

Oscillator



Dummy antenna



FM Adjustment

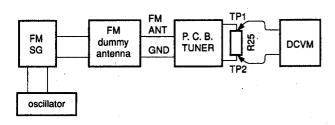
Before Adjustment

- 1) For dB, 1μV=0dBμ applies **Example**: 60dBμ =1mV
- 2) 100% modulation means that the frequency deviation is 75kHz
- 3) Install the Matching Transformer and connect FM SG.
- Set each switch to the following position unless otherwise specified.

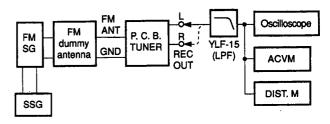
INPUT SELECTOR TUNER TUNING MODE AUTO

●Connection diagram (Measuring instruments)

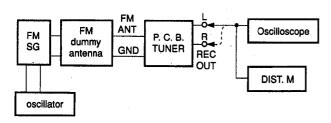
1) Discriminator balance adjustment



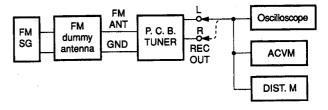
3) Stereo distortion verification/separation adjustment



2) Monaural distortion adjustment



4) Sensitivity Verification



See page 10 for TP locations & adjustment points.

Step	Adjustment item	Signal (ANT IN)	Reception frequency	Adjustment point	Test point	Rating
1	Rough adjustment of discriminator balance	FM ANT (75Ω) 98.1MHz 70dBμ MONO 100Hz 100% modulation	98.1MHz *(A-4)	T1 (Front side core)	Both ends of R25 (Between TP1 and TP2)	DC 0V ±100mV
2	Rough adjustment of mon- aural distortion	Same as Step 1.	98.1MHz *(A-4)	T1 (Antenna side core)	REC OUT L,R	Minimize the distortion.
3	Fine adjustment of discrimi- nator balance	Same as Step 1.	98.1MHz *(A-4)	T1 (Front side core)	Both ends of R25 (Between TP1 and TP2)	DC 0V ± 50mV
4	Fine adjustment of mon- aural distortion	Same as Step 1.	98.1MHz *(A-4)	T1 (Antenna side core)	REC OUT L,R	Minimize the distortion (to 0.25% or less).
5	Verification of discrimina- tor balance	Same as Step 1.	98.1MHz *(A-4)	T1 (Front side core)	Both ends of R25 (Between TP1 and TP2)	DC 0V±50mV

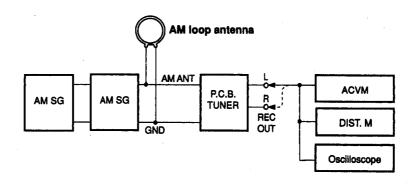
^{*:} Execution of MAKER PRESET (Refer to SELF CHECK MODE on pages 7,8 and 9.) will facilitate setting reception frequency for adjustment.

Step	Adjustment item	Signal (ANT IN)	Reception frequency	Adjustment point	Test point	Rating
6	Adjustment of front end IFT	FM ANT (75Ω) 98.1MHz 30dBμ MONO 1kHz, 100% modulation	98.1MHz *(A-4)	Front end IFT	Pin 16 of IC1	Adjust so that the DC voltage is maximum. CAUTION: Over-adjustment of the IFT core will reduce the sensitivity. Maximum ± 90°
7	Verification of monaural distortion	FM ANT (75Ω) 98.1MHz 70dBμ MONO 1kHz, 100% modulation	98.1MHz *(A-4)		REC OUT L,R	0.4% or less
8	Verification of stereo distortion	FM ANT (75Ω) 98.1MHz 70dBμ Stereo L or R 1kHz, 100% modulation	98.1MHz *(A-4) Tuning mode should be AUTO		REC OUT L,R	or less STEREO indicator should light.
9	Verification of sensitiv- ity	FM ANT (75Ω) 88.1MHz 98.1MHz 106.1MHz	88.1MHz *(A-6) 98.1MHz *(A-4) 106.1MHz *(A-7)		ANT (75Ω)	 Set the tuning mode to MAN'L MONO. S/N should be 30dB at each frequency of 88.1MHz, 98.1MHz, and 106.1MHz. Check to ensure that the voltage at the ANT termi- nal is 3dBµ (14.25dBf)or less.
10	Adjustment of Separation	FM ANT (75Ω) 98.1MHz 70dBμ Stereo L or R 1kHz, 100% modulation	98.1MHz *(A-4)	VR 2	REC OUT L,R	With SSG output at L or R, the signal leakage level at the other channel should be minimized. 36dB or more
11	Adjustment of signal meter	FM ANT (75Ω) 98.1MHz, 45dBμ MONO 1kHz 30% modulation	98.1MHz *(A-4)	VR 1		Adjust so that all signal meters light.
		−10dBµ or less				Check to ensure that signal meters turn OFF.
12	Varification of auto tun- ing	FM ANT (75Ω) 98.1MHz 23dBμ Stereo L or R 1kHz, 30% modulation	98.1MHz *(A-4)			Automatic reception should be available when the tuning key is moved UP and DOWN. The stereo indicator should light. Audio muting should be applied during tuning.

^{*:} Execution of MAKER PRESET (Refer to SELF CHECK MODE on pages 7,8 and 9.) will facilitate setting reception frequency for adjustment.

AM adjustment (This should be done after FM adjustment.)

- Connection Diagram (Measuring instruments)
- 1) Adjustment of sensitivity



See page 8 for TP locations & adjustment points.

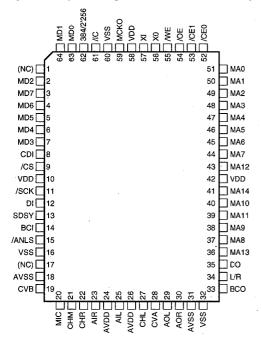
Step	Adjustment item	Signal(ANT IN)	Reception frequency	Adjustment point	Test point	Rating
1	Adjustment of sensitivity (1440kHz)	AM ANT 1440kHz 50dBµ 1kHz, 30% modulation	1440kHz *(B-3)	T2	REC OUT	Audio output should be maximized.
2	Adjustment of sensitivity (630kHz)	AM ANT 630kHz 50dBµ 1kHz, 30% modulation	630kHz *(B-1)	T2	REC OUT	Audio output should be maximized.
3	Verification of sensitiv- ity	AM ANT 630kHz 1080kHz 1440kHz 1kHz, 30% modulation	630kHz *(B-1) 1080kHz *(B-2) 1440kHz *(B-3)		AM ANT	Repeat the Step 1 and 2. Distortion should be 10% or less at each frequency. Check to ensure that the voltage at the ANT terminal is 54dBµ or less.
.4	Verification of auto tun- ing	AM ANT 60dBµ				Auto reception should be available when the tuning key is pressed UP and DOWN.

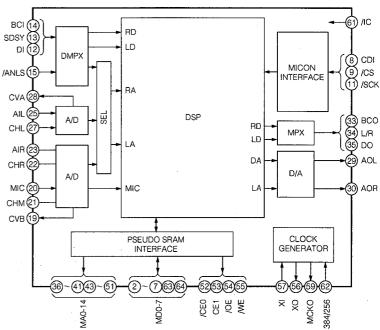
^{*:} Execution of MAKER PRESET (Refer to SELF CHECK MODE on pages 7,8 and 9.) will facilitate setting reception frequency for adjustment.

IC DATA

IC14: YSS205B-F

Digital Dolby Pro Logic Decoder with Auto Input Balance





No.	Name	1/0	Function
1	(NC)		(Not to be connected externally)
2	MD2	1/0	External pseudo SRAM interface data terminal
3	MD7	1/0	External pseudo SRAM interface data terminal
4	MD6	I/O	External pseudo SRAM interface data terminal
5	MD5	1/0	External pseudo SRAM interface data terminal
6	MD4	1/0	External pseudo SRAM interface data terminal
7	MD3	1/0	External pseudo SRAM interface data terminal
8	CDI		Microprocessor interface serial data
9	/CS	1	Microprocessor interface chip select
10	YDD	_	+5V power supply (for digital system)
11	/SCK	- 1	Microprocessor interface serial clock
12	DI	I+	Digital audio input serial data
13	SDSY	l+	Digital audio input L/R clock
14	BCI	l+	Digital audio input bit clock
15	/ANLS	I+	YM7110 interface serial data
16	VSS	_	Ground (for digital system)
17	(NC)		(Not to be connected externally)
18	AVSS	Α-	Ground (for A/D and D/A systems, to be
			connected to VSS externally)
19	CYB	A-	R channel, MIC channel ADC center voltage
20	MIC	Αl	Analog audio MIC channel ADC input
21	СНМ	A-	For the connection of a MIC input sample/
			hold capacitor
22	CHR	A-	For the connection of an AIR input sample/
			hold capacitor
23	AIR	ΑI	Analog audio R channel ADC input
24	AVDD	A-	+5V power supply (for A/D and D/A systems,
] .			to be connected to VDD externally)
25	AIL	ΑI	Analog audio L channel ADC input

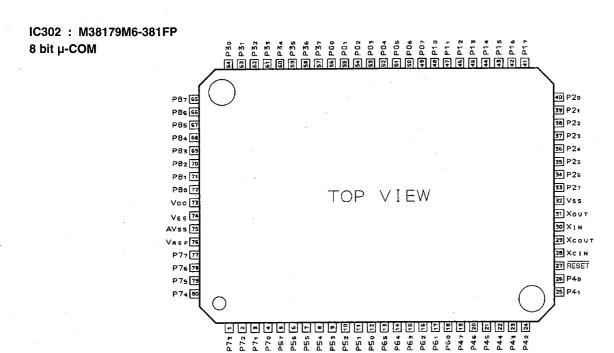
No.	Name	1/0	Function
26	AVDD	Α-	+5V power supply (for A/D and D/A systems,
			to be connected to VDD externally)
27	CHL	Α-	For the connection of an AIL input sample/
			hold capacitor
28	CVA	Α-	L channel ADC center voltage
29	AOL	AO	Analog audio L channel DAC output
30	AOR	AO	Analog audio R channel DAC output
31	AVSS	A-	Ground (for A/D and D/A systems, to be
			connected to VSS externally)
32	VSS	_	Ground (for digital system)
33	BCO	0	Digital audio output bit clock
34	L/R	0	Digital audio output L/R clock
35	DO	0	Digital audio output serial data
36	MA13	0	External pseudo SRAM interface address terminal
37	MA8	0	External pseudo SRAM interface address terminal
38	MA9	0	External pseudo SRAM interface address terminal
39	MA11	0	External pseudo SRAM interface address terminal
40	MA10	0	External pseudo SRAM interface address terminal
41	MA14	0	External pseudo SRAM interface address terminal
42	VDD	_	Ground (for digital system)
43	MA12	0	External pseudo SRAM interface address terminal
44	MA7	0	External pseudo SRAM interface address terminal
45	MA6	0	External pseudo SRAM interface address terminal
46	MA5	0	External pseudo SRAM interface address terminal
47	MA4	0	External pseudo SRAM interface address terminal
48	МАЗ	0	External pseudo SRAM interface address terminal
49	MA2	0	External pseudo SRAM interface address terminal
50	MA1_	0	External pseudo SRAM interface address terminal
51	MA0	0	External pseudo SRAM interface address terminal

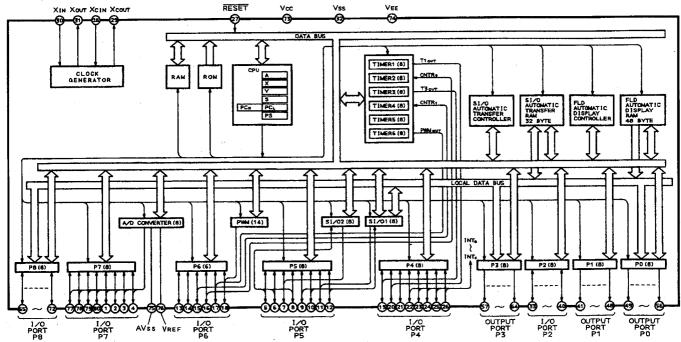
RX-V300K/R-V302K

No.	Name	1/0	Function
52	/CEO	0	External pseudo SRAM interface chip select #0
53	/CEI	0	External pseudo SRAM interface chip select #1
			(effective when two SRAMs are connected)
54	/OE	0	External pseudo SRAM interface OE terminal
55	/WE	0	External pseudo SRAM interface We terminal
56	XO	0	For the connection of a crystal oscillator
57	XI	1	For the connection of a crystal oscillator,
			or external clock input

Note) + : Pull-up terminal, A: A	Analog terminal
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		_	
No.	Name	1/0	Function
58	VDD	-	+5V power supply (for digital system)
59	VCKO	0	Master clock (XI clock) output
60	VSS	ı	Ground (for digital system)
61	/IC		Initial clear terminal
62	384/256	l+	Master clock rate switching ("H": 384 fs,
			"L" : 256 fs)
63	MDO	1/0	External pseudo SRAM interface data terminal
64	MDI	1/0	External pseudo SRAM interface data terminal

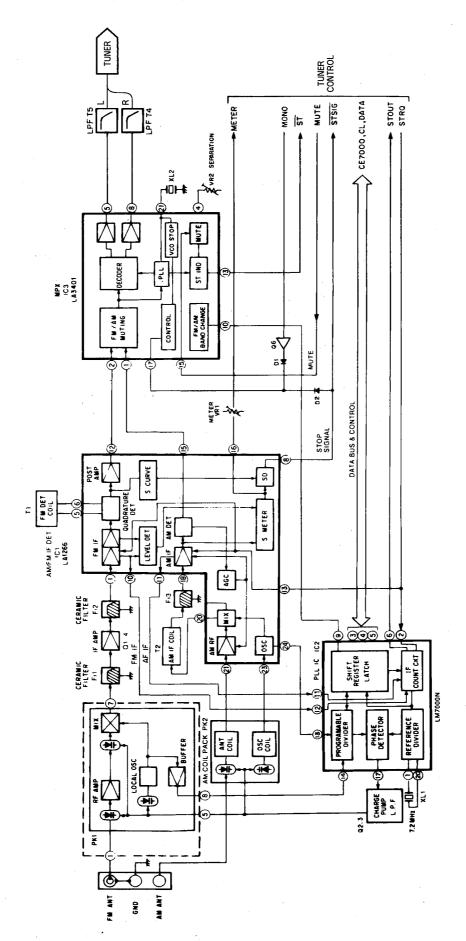




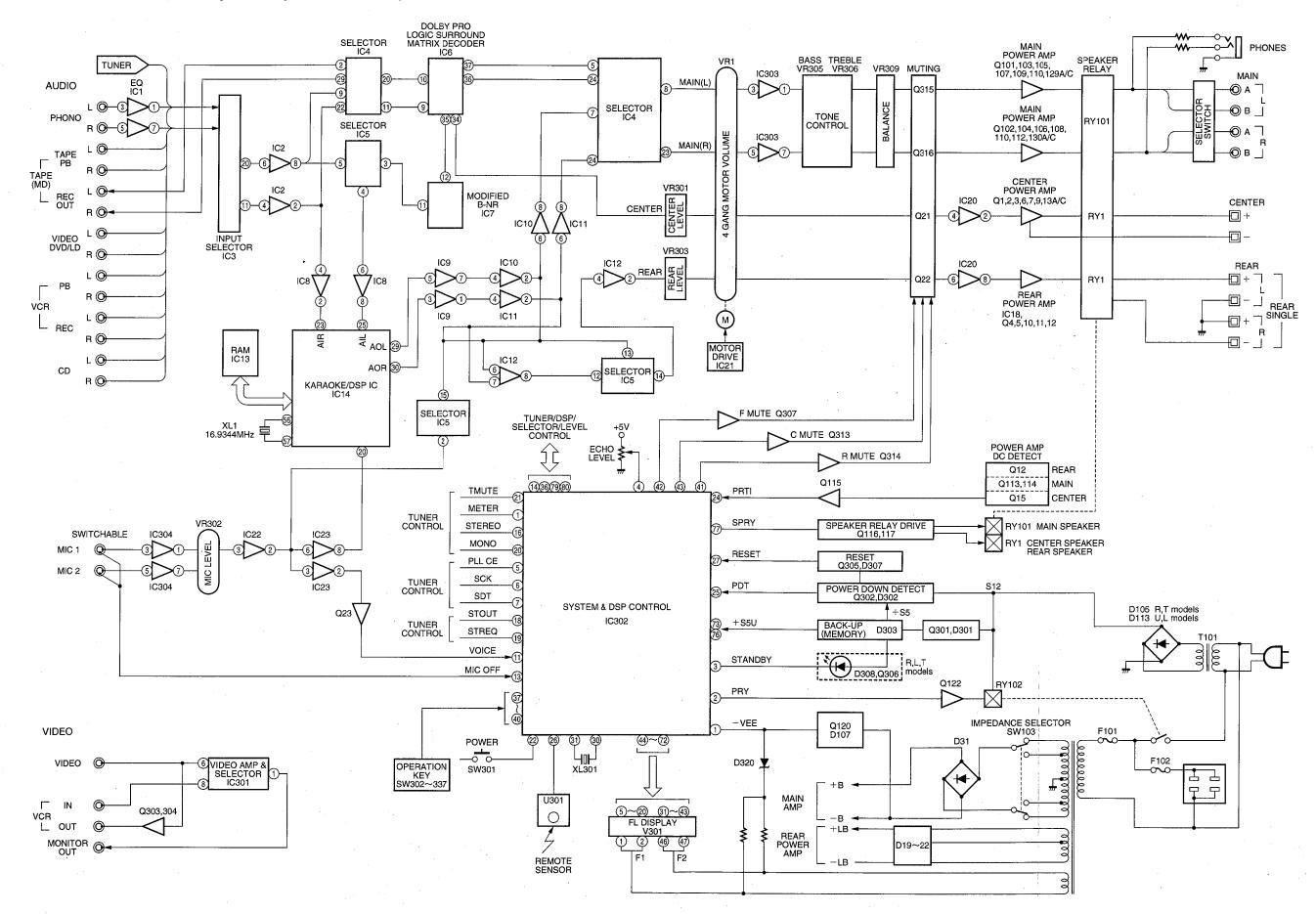
No. Port Name I/O Function 1 P73 METER I Tuner meter 2 P72 PON O Power relay 3 P71 STBY O LED for Stand by 4 P70 ECHO I Echo level 5 P57 PLLCE O LM7000 CE 6 P56 CLOCK O Serial clock 7 P55 DATA O Serial data 8 P54 KPCE O YSS-205 CE 9 P53 CE2785 O LA2786 CE 10 P52 O UA2786 CE 11 P51 VOICE I Mic 12 P50 KPRES O YSS-205 Reset 13 P65 MICOFF I Connect/ Disconnect 14 P64 VSEL2 O Video select 2 15 P63 CESEL O LC78211					
2 P72 PON O Power relay 3 P71 STBY O LED for Stand by 4 P70 ECHO I Echo level 5 P57 PLLCE O LM7000 CE 6 P56 CLOCK O Serial clock 7 P55 DATA O Serial data 8 P54 KPCE O YSS-205 CE 9 P53 CE2785 O LA2786 CE 10 P52 O LA2786 CE 11 P51 VOICE I Mic 12 P50 KPRES O YSS-205 Reset 13 P65 MICOFF I Connect/ Disconnect 14 P64 VSEL2 O Video select 2 15 P63 CESEL O LC78211, 78212 CE 16 P62 ST I Stereo for Tuner 17 P61 STSIG I STOP SIGNAL 18 P60 STOUT I STOP OUT 19 P47 STREQ O STOP REQUEST 20 P46 MONO O AUTO/MONO 21 P45 TMUTE O Tuner mute 22 P44 PSW I Power switch key input 23 P43 PRTDC I AMP DC detect 24 P42 PRTI I Over current detect 25 P41 PDN I Power down detect 26 P40 REM I Remote control Signal 27 RES RESET I Reset 28 XCIN GND 29 XCOUT NC 30 XIN I GND 31 P27 4052A, VI I/O μPD4053A V2 34 P26 4052B, V2 I/O μPD4053C 36 P24 VSEL1 O Video select 1 37 P23 KEY3 I Key input 2 39 P21 KEY1 I Key input 1	No.	Port	Name	1/0	Function
3 P71 STBY O LED for Stand by 4 P70 ECHO I Echo level 5 P57 PLLCE O LM7000 CE 6 P56 CLOCK O Serial clock 7 P55 DATA O Serial clock 8 P54 KPCE O YSS-205 CE 9 P53 CE2785 O LA2786 CE 10 P52 O C 11 P51 VOICE I Mic 12 P50 KPRES O YSS-205 Reset 13 P65 MICOFF I Connect/ Disconnect 14 P64 VSEL2 O Video select 2 15 P63 CESEL O LC78211, 78212 CE 16 P62 ST I Stereo for Tuner 17 P61 STSIG I STOP SIGNAL 18 P60 STOUT I ST	1	P73	METER	I	Tuner meter
4 P70 ECHO I Echo level 5 P57 PLLCE O LM7000 CE 6 P56 CLOCK O Serial clock 7 P55 DATA O Serial clock 8 P54 KPCE O YSS-205 CE 9 P53 CE2785 O LA2786 CE 10 P52 O O 11 P51 VOICE I Mic 12 P50 KPRES O YSS-205 Reset 13 P65 MICOFF I Connect/ Disconnect 14 P64 VSEL2 O Video select 2 15 P63 CESEL O LC78211, 78212 CE 16 P62 ST I Stereo for Tuner 17 P61 STSIG I STOP SIGNAL 18 P60 STOUT I STOP SIGNAL 18 P60 STOUT I STOP	2	P72	PON	0	Power relay
5 P57 PLLCE O LM7000 CE 6 P56 CLOCK O Serial clock 7 P55 DATA O Serial clock 8 P54 KPCE O YSS-205 CE 9 P53 CE2785 O LA2786 CE 10 P52 O O 11 P51 VOICE I Mic 12 P50 KPRES O YSS-205 Reset 13 P65 MICOFF I Connect/ Disconnect 14 P64 VSEL2 O Video select 2 15 P63 CESEL O LC78211, 78212 CE 16 P62 ST I Stereo for Tuner 17 P61 STSIG I STOP SIGNAL 18 P60 STOUT I STOP DUT 19 P47 STREQ O STOP REQUEST 20 P46 MONO O AUTO/	3	P71	STBY	0	LED for Stand by
6 P56 CLOCK O Serial clock 7 P55 DATA O Serial data 8 P54 KPCE O YSS-205 CE 9 P53 CE2785 O LA2786 CE 10 P52 O O 11 P51 VOICE I Mic 12 P50 KPRES O YSS-205 Reset 13 P65 MICOFF I Connect/ Disconnect 14 P64 VSEL2 O Video select 2 15 P63 CESEL O LC78211, 78212 CE 16 P62 ST I Stereo for Tuner 17 P61 STSIG I STOP SIGNAL 18 P60 STOUT I STOP PEQUEST 19 P47 STREQ O STOP REQUEST 20 P46 MONO O AUTO/MONO 21 P45 TMUTE O T	4	P70	ECHO	ı	Echo level
7 P55 DATA O Serial data 8 P54 KPCE O YSS-205 CE 9 P53 CE2785 O LA2786 CE 10 P52 O O 11 P51 VOICE I Mic 12 P50 KPRES O YSS-205 Reset 13 P65 MICOFF I Connect/ Disconnect 14 P64 VSEL2 O Video select 2 15 P63 CESEL O LC78211, 78212 CE 16 P62 ST I Stereo for Tuner 17 P61 STSIG I STOP SIGNAL 18 P60 STOUT I STOP PEQUEST 20 P46 MONO O AUTO/MONO 21 P45 TMUTE O Tuner mute 22 P44 PSW I Power switch key input 23 P43 PRTDC I	5	P57	PLLCE	0	LM7000 CE
8 P54 KPCE O YSS-205 CE 9 P53 CE2785 O LA2786 CE 10 P52 O O 11 P51 VOICE I Mic 12 P50 KPRES O YSS-205 Reset 13 P65 MICOFF I Connect/ Disconnect 14 P64 VSEL2 O Video select 2 15 P63 CESEL O LC78211, 78212 CE 16 P62 ST I Stereo for Tuner 17 P61 STSIG I STOP SIGNAL 18 P60 STOUT I STOP PREQUEST 20 P46 MONO O AUTO/MONO 21 P45 TMUTE O Tuner mute 22 P44 PSW I Power switch key input 23 P43 PRTDC I AMP DC detect 24 P42 PRTI I	6	P56	CLOCK	0	Serial clock
9 P53 CE2785 O LA2786 CE 10 P52 O O 11 P51 VOICE I Mic 12 P50 KPRES O YSS-205 Reset 13 P65 MICOFF I Connect/ Disconnect 14 P64 VSEL2 O Video select 2 15 P63 CESEL O LC78211, 78212 CE 16 P62 ST I Stereo for Tuner 17 P61 STSIG I STOP SIGNAL 18 P60 STOUT I STOP OUT 19 P47 STREQ O STOP REQUEST 20 P46 MONO O AUTO/MONO 21 P45 TMUTE O Tuner mute 22 P44 PSW I Power switch key input 23 P43 PRTDC I AMP DC detect 24 P42 PRTI I	7	P55	DATA	0	Serial data
10 P52	8	P54	KPCE	0	YSS-205 CE
11 P51 VOICE I Mic 12 P50 KPRES O YSS-205 Reset 13 P65 MICOFF I Connect/ Disconnect 14 P64 VSEL2 O Video select 2 15 P63 CESEL O LC78211, 78212 CE 16 P62 ST I Stereo for Tuner 17 P61 STSIG I STOP SIGNAL 18 P60 STOUT I STOP OUT 19 P47 STREQ O STOP REQUEST 20 P46 MONO O AUTO/MONO 21 P45 TMUTE O Tuner mute 22 P44 PSW I Power switch key input 23 P43 PRTDC I AMP DC detect 24 P42 PRTI I Over current detect 25 P41 PDN I Power down detect 26 P40 REM I Remote control Signal 27 RES RESET I Reset 28 XCIN GND 29 XCOUT N.C 30 XIN I SEST GND 31 XOUT O 6.3 MHz 32 Vss GND 33 P27 4052A, V1 I/O μPD4053A V2 34 P26 4052B, V2 I/O μPD4053C 36 P24 VSEL1 O Video select 1 37 P23 KEY3 I Key input 2 39 P21 KEY1 I Key input 2	9	P53	CE2785	0	LA2786 CE
12 P50 KPRES O YSS-205 Reset 13 P65 MICOFF I Connect/ Disconnect 14 P64 VSEL2 O Video select 2 15 P63 CESEL O LC78211, 78212 CE 16 P62 ST I Stereo for Tuner 17 P61 STSIG I STOP SIGNAL 18 P60 STOUT I STOP OUT 19 P47 STREQ O STOP REQUEST 20 P46 MONO O AUTO/MONO 21 P45 TMUTE O Tuner mute 22 P44 PSW I Power switch key input 23 P43 PRTDC I AMP DC detect 24 P42 PRTI I Over current detect 25 P41 PDN I Power down detect 26 P40 REM I Remote control Signal 27 RES RESET I Reset 28 XCIN GND 29 XCOUT N.C 30 XIN I Septiment Signal 31 XOUT O 6.3 MHz 32 VSS GND 33 P27 4052A, V1 I/O μPD4053A V2 34 P26 4052B, V2 I/O μPD4053C 36 P24 VSEL1 O Video select 1 37 P23 KEY3 I Key input 2 39 P21 KEY1 I Key input 1	10	P52		0	
13 P65 MICOFF I Connect/ Disconnect 14 P64 VSEL2 O Video select 2 15 P63 CESEL O LC78211, 78212 CE 16 P62 ST I Stereo for Tuner 17 P61 STSIG I STOP SIGNAL 18 P60 STOUT I STOP OUT 19 P47 STREQ O STOP REQUEST 20 P46 MONO O AUTO/MONO 21 P45 TMUTE O Tuner mute 22 P44 PSW I Power switch key input 23 P43 PRTDC I AMP DC detect 24 P42 PRTI I Over current detect 25 P41 PDN I Power down detect 26 P40 REM I Reset 28 XCIN GND 29 XCOUT N.C	11	P51	VOICE	_	Mic
14 P64 VSEL2 O Video select 2 15 P63 CESEL O LC78211, 78212 CE 16 P62 ST I Stereo for Tuner 17 P61 STSIG I STOP SIGNAL 18 P60 STOUT I STOP OUT 19 P47 STREQ O STOP REQUEST 20 P46 MONO O AUTO/MONO 21 P45 TMUTE O Tuner mute 22 P44 PSW I Power switch key input 23 P43 PRTDC I AMP DC detect 24 P42 PRTI I Over current detect 25 P41 PDN I Power down detect 26 P40 REM I Remote control Signal 27 RES RESET I Reset 28 XCIN GND 29 XCOUT N.C 30 XIN I GA3 MHz 31 XOUT O 6.3 MHz 32 VSS GND 33 P27 4052A, V1 I/O μPD4053B V1 35 P25 4052C O μPD4053C 36 P24 VSEL1 O Video select 1 37 P23 KEY2 I Key input 2 39 P21 KEY1 I Key input 2	12	P50	KPRES	0	YSS-205 Reset
15 P63 CESEL O LC78211, 78212 CE 16 P62 ST I Stereo for Tuner 17 P61 STSIG I STOP SIGNAL 18 P60 STOUT I STOP OUT 19 P47 STREQ O STOP REQUEST 20 P46 MONO O AUTO/MONO 21 P45 TMUTE O Tuner mute 22 P44 PSW I Power switch key input 23 P43 PRTDC I AMP DC detect 24 P42 PRTI I Over current detect 25 P41 PDN I Power down detect 26 P40 REM I Remote control Signal 27 RES RESET I Reset 28 XCIN GND 29 XCOUT N.C 30 XIN I GND 31 XOUT O 6.3 MHz 32 VSS GND 33 P27 4052A, V1 I/O μPD4053A V2 34 P26 4052B, V2 I/O μPD4053C 36 P24 VSEL1 O Video select 1 37 P23 KEY3 I Key input 2 39 P21 KEY1 I Key input 1	13	P65	MICOFF	1	Connect/ Disconnect
16 P62 ST I Stereo for Tuner 17 P61 STSIG I STOP SIGNAL 18 P60 STOUT I STOP OUT 19 P47 STREQ O STOP REQUEST 20 P46 MONO O AUTO/MONO 21 P45 TMUTE O Tuner mute 22 P44 PSW I Power switch key input 23 P43 PRTDC I AMP DC detect 24 P42 PRTI I Over current detect 25 P41 PDN I Power down detect 26 P40 REM I Remote control Signal 27 RES RESET I Reset 28 Xcin GND 29 Xcout N.C 30 Xin I 6.3 MHz 31 Xout O 6.3 MHz 32 Vss GND </td <td>14</td> <td>P64</td> <td>VSEL2</td> <td>0</td> <td>Video select 2</td>	14	P64	VSEL2	0	Video select 2
17 P61 STSIG I STOP SIGNAL 18 P60 STOUT I STOP OUT 19 P47 STREQ O STOP REQUEST 20 P46 MONO O AUTO/MONO 21 P45 TMUTE O Tuner mute 22 P44 PSW I Power switch key input 23 P43 PRTDC I AMP DC detect 24 P42 PRTI I Over current detect 25 P41 PDN I Power down detect 26 P40 REM I Remote control Signal 27 RES RESET I Reset 28 XCIN GND 29 XCOUT N.C 30 XIN I G.3 MHz 31 XOUT O 6.3 MHz 32 Vss GND 33 P27 4052A, V1 I/O μPD4053A V2 34 P26 4052B, V2 I/O μPD4053C 36 P24 VSEL1 O Video select 1 37 P23 KEY3 I Key input 2 39 P21 KEY1 I Key input 1	15	P63	CESEL	0	LC78211, 78212 CE
18 P60 STOUT I STOP OUT 19 P47 STREQ O STOP REQUEST 20 P46 MONO O AUTO/MONO 21 P45 TMUTE O Tuner mute 22 P44 PSW I Power switch key input 23 P43 PRTDC I AMP DC detect 24 P42 PRTI I Over current detect 25 P41 PDN I Power down detect 26 P40 REM I Remote control Signal 27 RES RESET I Reset 28 XCIN GND 29 XCOUT N.C 30 XIN I 6.3 MHz 31 XOUT O 6.3 MHz 32 Vss GND 33 P27 4052A, V1 I/O μPD4053A V2 34 P26 4052B, V2 I/O μPD4053C 36 P24 VSEL1 O Video select 1	16	P62	ST	.	Stereo for Tuner
19 P47 STREQ O STOP REQUEST 20 P46 MONO O AUTO/MONO 21 P45 TMUTE O Tuner mute 22 P44 PSW I Power switch key input 23 P43 PRTDC I AMP DC detect 24 P42 PRTI I Over current detect 25 P41 PDN I Power down detect 26 P40 REM I Remote control Signal 27 RES RESET I Reset 28 XCIN GND 29 XCOUT N.C 30 XIN I G.3 MHz 31 XOUT O 6.3 MHz 32 Vss GND 33 P27 4052A, V1 I/O μPD4053A V2 34 P26 4052B, V2 I/O μPD4053C 36 P24 VSEL1 O Video select 1 37 P23 KEY3 I Key input 2 39 P21 KEY1 I Key input 1	17	P61	STSIG	_	STOP SIGNAL
20 P46 MONO O AUTO/MONO 21 P45 TMUTE O Tuner mute 22 P44 PSW I Power switch key input 23 P43 PRTDC I AMP DC detect 24 P42 PRTI I Over current detect 25 P41 PDN I Power down detect 26 P40 REM I Remote control Signal 27 RES RESET I Reset 28 Xcin GND 29 Xcout N.C 30 Xin I 6.3 MHz 31 Xout O 6.3 MHz 32 Vss GND 33 P27 4052A,V1 I/O μPD4053A V2 34 P26 4052B,V2 I/O μPD4053B V1 35 P25 4052C O μPD4053C 36 P24 VSEL1 O Video select 1 </td <td>18</td> <td>P60</td> <td>STOUT</td> <td>1</td> <td>STOP OUT</td>	18	P60	STOUT	1	STOP OUT
21 P45 TMUTE O Tuner mute 22 P44 PSW I Power switch key input 23 P43 PRTDC I AMP DC detect 24 P42 PRTI I Over current detect 25 P41 PDN I Power down detect 26 P40 REM I Remote control Signal 27 RES RESET I Reset 28 XCIN GND 29 XCOUT N.C 30 XIN I 6.3 MHz 31 XOUT O 6.3 MHz 32 Vss GND 33 P27 4052A, V1 I/O μPD4053A V2 34 P26 4052B, V2 I/O μPD4053B V1 35 P25 4052C O μPD4053C 36 P24 VSEL1 O Video select 1 37 P23 KEY3 I Key input 2 39 P21 KEY1 I Key input 1 <td>19</td> <td>P47</td> <td>STREQ</td> <td>0</td> <td>STOP REQUEST</td>	19	P47	STREQ	0	STOP REQUEST
22 P44 PSW I Power switch key input 23 P43 PRTDC I AMP DC detect 24 P42 PRTI I Over current detect 25 P41 PDN I Power down detect 26 P40 REM I Remote control Signal 27 RES RESET I Reset 28 XCIN GND 29 XCOUT N.C 30 XIN I 6.3 MHz 31 XOUT O 6.3 MHz 32 Vss GND 33 P27 4052A, V1 I/O μPD4053A V2 34 P26 4052B, V2 I/O μPD4053B V1 35 P25 4052C O μPD4053C 36 P24 VSEL1 O Video select 1 37 P23 KEY3 I Key input 2 39 P21 KEY1 I Key input	20	P46	MONO	0	AUTO/MONO
23 P43 PRTDC I AMP DC detect 24 P42 PRTI I Over current detect 25 P41 PDN I Power down detect 26 P40 REM I Remote control Signal 27 RES RESET I Reset 28 XCIN GND 29 XCOUT N.C 30 XIN I 6.3 MHz 31 XOUT O 6.3 MHz 32 Vss GND 33 P27 4052A, V1 I/O μPD4053A V2 34 P26 4052B, V2 I/O μPD4053B V1 35 P25 4052C O μPD4053C 36 P24 VSEL1 O Video select 1 37 P23 KEY3 I Key input 2 39 P21 KEY1 I Key input 1	21	P45	TMUTE	0	Tuner mute
24 P42 PRTI I Over current detect 25 P41 PDN I Power down detect 26 P40 REM I Remote control Signal 27 RES RESET I Reset 28 XCIN GND 29 XCOUT N.C 30 XIN I 6.3 MHz 31 XOUT O 6.3 MHz 32 Vss GND 33 P27 4052A, V1 I/O μPD4053A V2 34 P26 4052B, V2 I/O μPD4053B V1 35 P25 4052C O μPD4053C 36 P24 VSEL1 O Video select 1 37 P23 KEY3 I Key input 2 39 P21 KEY1 I Key input 1	22	P44	PSW	ı	Power switch key input
25 P41 PDN I Power down detect 26 P40 REM I Remote control Signal 27 RES RESET I Reset 28 XCIN GND 29 XCOUT N.C 30 XIN I 6.3 MHz 31 XOUT O 6.3 MHz 32 Vss GND 33 P27 4052A, V1 I/O μPD4053A V2 34 P26 4052B, V2 I/O μPD4053B V1 35 P25 4052C O μPD4053C 36 P24 VSEL1 O Video select 1 37 P23 KEY3 I Key input 2 39 P21 KEY1 I Key input 1	23	P43	PRTDC	ı	AMP DC detect
26 P40 REM I Remote control Signal 27 RES RESET I Reset 28 XCIN GND 29 XCOUT N.C 30 XIN I 6.3 MHz 31 XOUT O 6.3 MHz 32 Vss GND 33 P27 4052A, V1 I/O μPD4053A V2 34 P26 4052B, V2 I/O μPD4053B V1 35 P25 4052C O μPD4053C 36 P24 VSEL1 O Video select 1 37 P23 KEY3 I Key input 3 38 P22 KEY2 I Key input 2 39 P21 KEY1 I Key input 1	24	P42	PRTI	ı	Over current detect
27 RES RESET I Reset 28 XCIN GND 29 XCOUT N.C 30 XIN I 6.3 MHz 31 XOUT O 6.3 MHz 32 Vss GND 33 P27 4052A, V1 I/O μPD4053A V2 34 P26 4052B, V2 I/O μPD4053B V1 35 P25 4052C O μPD4053C 36 P24 VSEL1 O Video select 1 37 P23 KEY3 I Key input 3 38 P22 KEY2 I Key input 2 39 P21 KEY1 I Key input 1	25	P41	PDN	ı	Power down detect
28 XCIN GND 29 XCOUT N.C 30 XIN I 6.3 MHz 31 XOUT O 6.3 MHz 32 Vss GND 33 P27 4052A, V1 I/O μPD4053A V2 34 P26 4052B, V2 I/O μPD4053B V1 35 P25 4052C O μPD4053C 36 P24 VSEL1 O Video select 1 37 P23 KEY3 I Key input 3 38 P22 KEY2 I Key input 2 39 P21 KEY1 I Key input 1	26	P40	REM	I	Remote control Signal
29 XCOUT	27	RES	RESET	_	Reset
30 XIN	28	XCIN			GND
31 XOUT O 6.3 MHz 32 Vss GND 33 P27 4052A, V1 I/O μPD4053A V2 34 P26 4052B, V2 I/O μPD4053B V1 35 P25 4052C O μPD4053C 36 P24 VSEL1 O Video select 1 37 P23 KEY3 I Key input 3 38 P22 KEY2 I Key input 2 39 P21 KEY1 I Key input 1	29	XCOUT	-		N.C
32 Vss GND 33 P27 4052A, V1 I/O μPD4053A V2 34 P26 4052B, V2 I/O μPD4053B V1 35 P25 4052C Ο μPD4053C 36 P24 VSEL1 Ο Video select 1 37 P23 KEY3 I Key input 3 38 P22 KEY2 I Key input 2 39 P21 KEY1 I Key input 1	30	XiN		ı	6.3 MHz
33 P27 4052A, V1 I/O μPD4053A V2 34 P26 4052B, V2 I/O μPD4053B V1 35 P25 4052C Ο μPD4053C 36 P24 VSEL1 Ο Video select 1 37 P23 KEY3 I Key input 3 38 P22 KEY2 I Key input 2 39 P21 KEY1 I Key input 1	31	Xout		0	6.3 MHz
34 P26 4052B, V2 I/O μPD4053B V1 35 P25 4052C O μPD4053C 36 P24 VSEL1 O Video select 1 37 P23 KEY3 I Key input 3 38 P22 KEY2 I Key input 2 39 P21 KEY1 I Key input 1	32	Vss			GND
35 P25 4052C O μPD4053C 36 P24 VSEL1 O Video select 1 37 P23 KEY3 I Key input 3 38 P22 KEY2 I Key input 2 39 P21 KEY1 I Key input 1	33	P27	4052A, V1	I/O	μPD4053A V2
36 P24 VSEL1 O Video select 1 37 P23 KEY3 I Key input 3 38 P22 KEY2 I Key input 2 39 P21 KEY1 I Key input 1	34	P26	4052B, V2	I/O	μPD4053B V1
37 P23 KEY3 I Key input 3 38 P22 KEY2 I Key input 2 39 P21 KEY1 I Key input 1	35	P25	4052C	0	μPD4053C
38 P22 KEY2 I Key input 2 39 P21 KEY1 I Key input 1	36	P24	VSEL1	0	Video select 1
39 P21 KEY1 I Key input 1	37	P23	KEY3	ı	Key input 3
	38	P22	KEY2	1	Key input 2
40 P20 KEY0 I Key input 0	39	P21	KEY1	ı	Key input 1
	40	P20	KEY0	ı	Key input 0

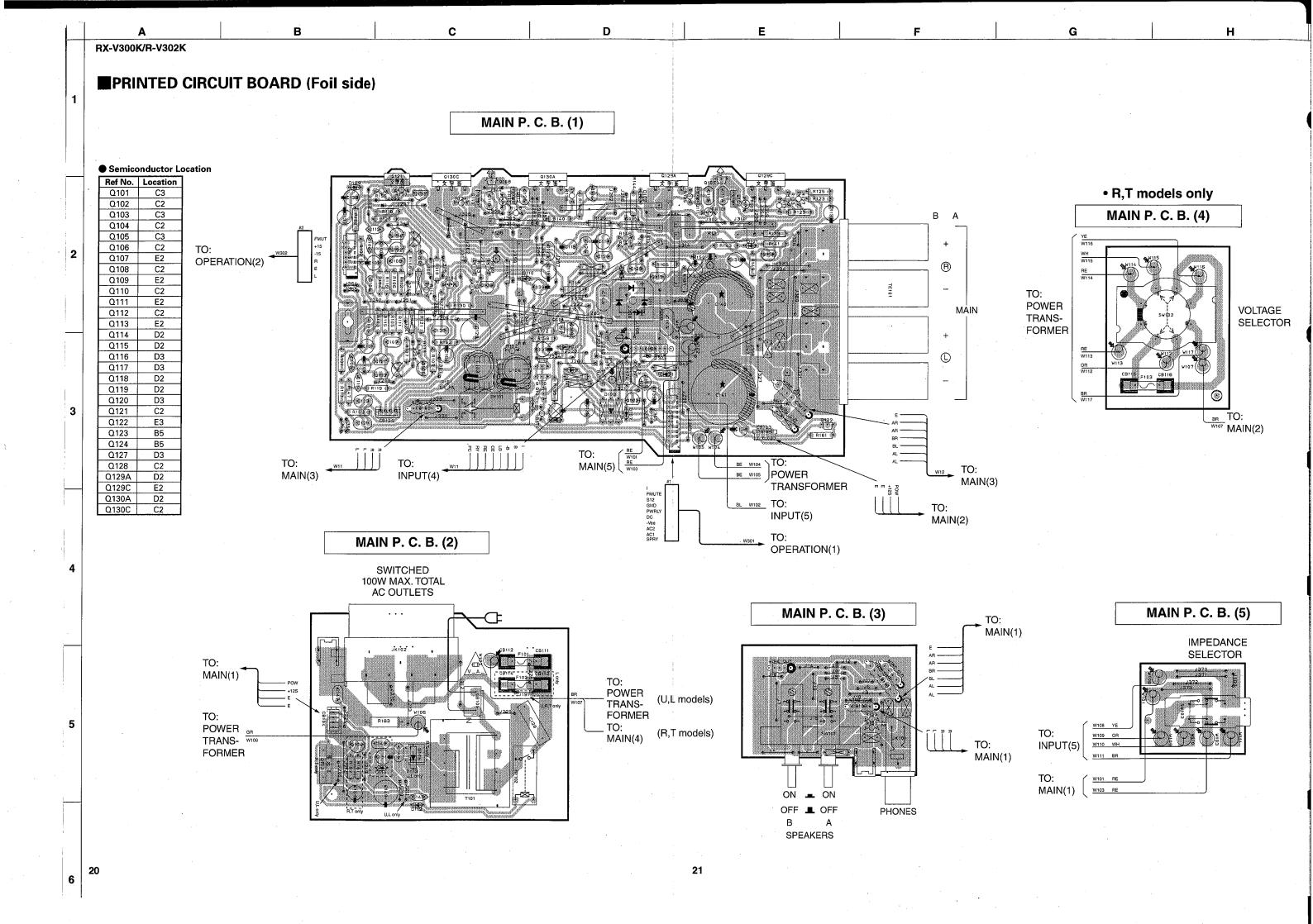
No.	Port	Name	1/0	Function
80	P74	VOL UP	0	Volume up
79	P75	VOL DN	0	Volume down
78	P76		1/0	
77	P77	SPRY	0	Speaker relay
76	VREF			+5V
75	AVss			GND
74	VEE	VP		–24V
73	Vcc			+5V
72	P80	P15	0	FL ANODE P15
71	P81	P14	0	FL ANODE P14
70	P82	P13	0	FL ANODE P13
69	P83	P12	0	FL ANODE P12
68	P84	P11	0	FL ANODE P11
67	P85	P10	0	FL ANODE P10
66	P86	P9	0	FL ANODE P9
65	P87	P8	0	FL ANODE P8
64	P30	P7	0	FL ANODE P7
63	P31	P6	0	FL ANODE P6
62	P32	P5	0	FL ANODE P5
61	P33	P4	0	FL ANODE P4
60	P34	P3	0	FL ANODE P3
59	P35	P2	0	FL ANODE P2
58	P36	P1	0	FL ANODE P1
57	P37	P0	0	FL ANODE P0
56	P00	0G	0	FL GRID 0
55	P01	1G	0	FL GRID 1
54	P02	2G	0	FL GRID 2
53	P03	3G	0	FL GRID 3
52	P04	4G, D0	0	FL GRID 4
51	P05	5G, D1	0	FL GRID 5
50	P06	6G, D2	0	FL GRID 6
49	P07	7G, D3	0	FL GRID 7
48	P10	8G, D4	0	FL GRID 8
47	P11	9G, D5	0	FL GRID 9
46	P12	10G, D6	0	FL GRID 10
45	P13	11G, D7	0	FL GRID 11
44	P14	12G, D8	0	FL GRID 12
43	P15	CMUTE	0	Center mute
42	P16	MMUTE	0	Main mute
41	P17	RMUTE	0	Rear mute

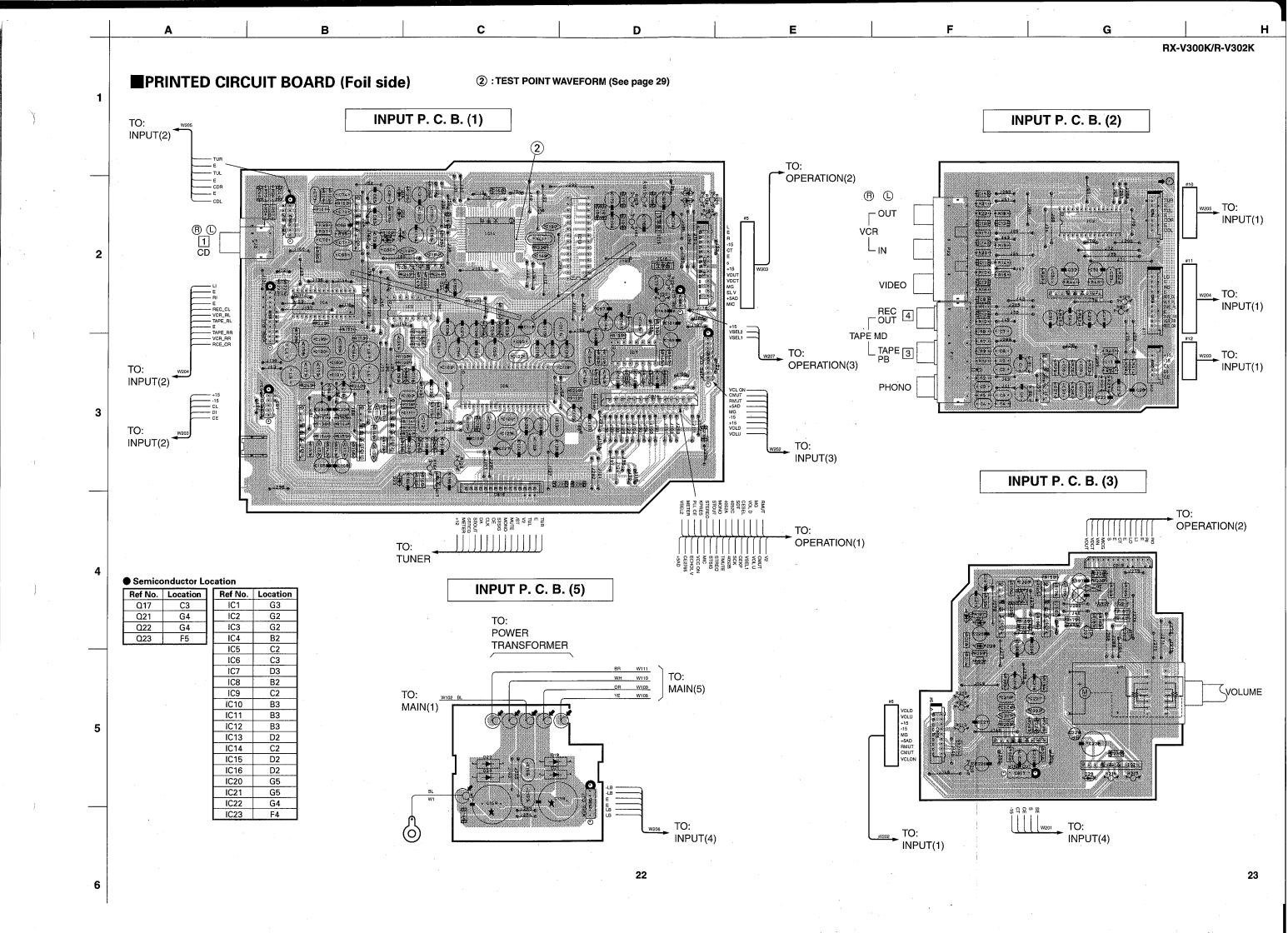
BLOCK DIAGRAM (TUNER)

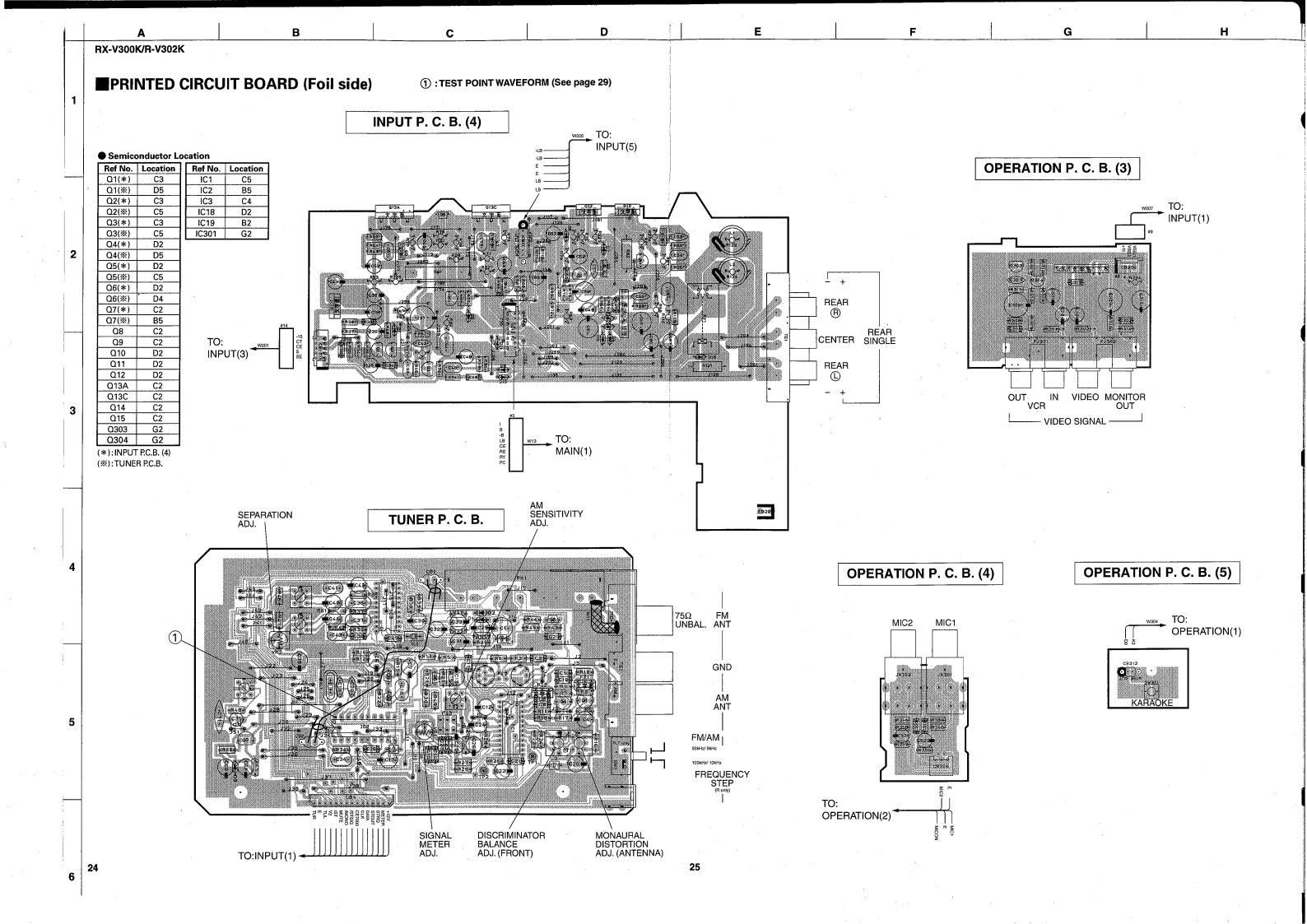


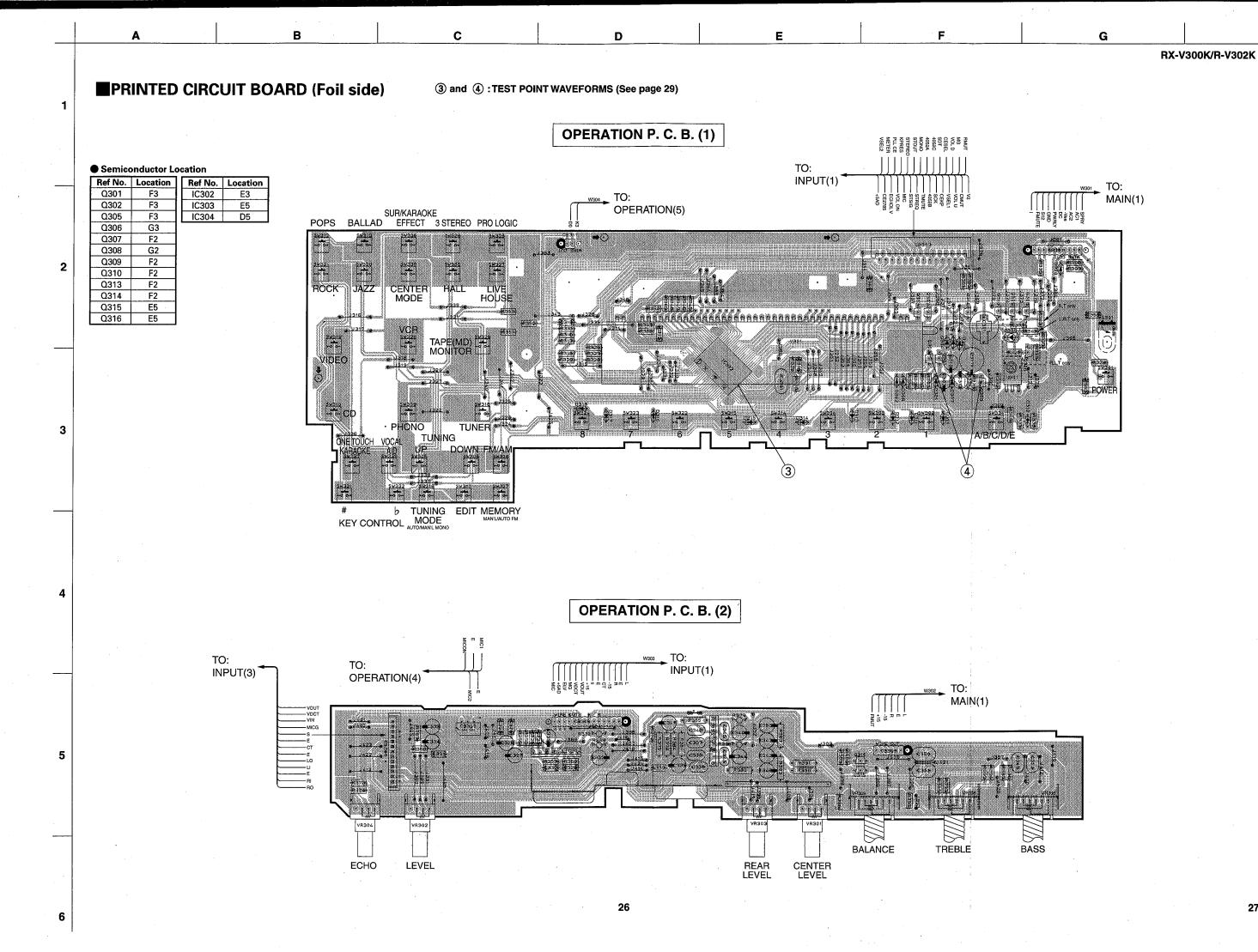
■BLOCK DIAGRAM (MAIN, INPUT, OPERATION)





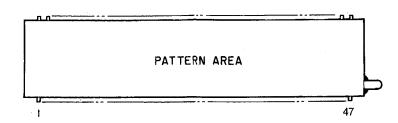






DISPLAY DATA (VV485300)

● V301 : 13-BT-148GK



PIN CONNECTION

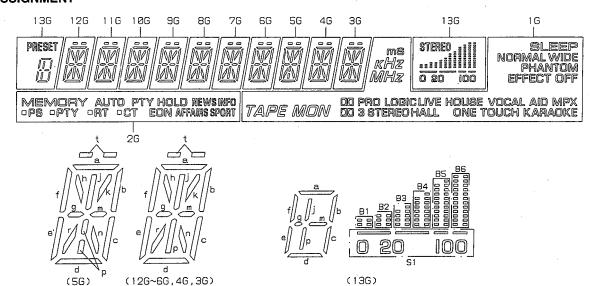
Pin No.	47	46	45	44	43	42	41	40	39	38	37	36	35	34	33	32	31	30	29
CONNECTION	F2	F2	NP	NP	13G	12G	11G	10G	9G	8G	7G	6G	5G	4G	3G	2G	1G	NC	NC
Pin No.	28	27	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12	11	10
1 111 140.	20		20	20	<u></u>			2 1		-10	- 10	- ' '							

Pin No.	9	8	7	6	5	4	3	2	1
CONNECTION	P12	P13	P14	P15	P16	NP	NP	F1	F1

Note	1)	F1,	F2	Filament
	٠,	,		

- 2) NP No pin
- 3) NC No connection
- 4) P1-P16 Datum Line
- 5) 1G-13G Grid

GRID ASSIGNMENT

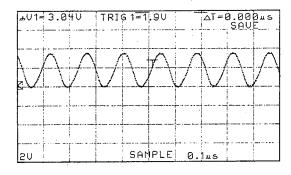


ANODE CONNECTION

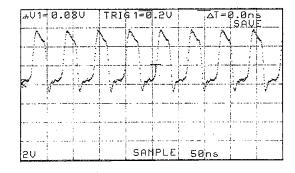
	13G	12G~13G	2G	1G		13G	12G~13G	2G	1G
P1	а	а	MEMORY	SLEEP	P9	STEREO	j	СТ	LIVE HOUSE
P2	b, c	b	AUTO	NORMAL	P10	B1	k .	□ (CT)	HALL
Р3	d	C	PTY HOLD	WIDE	P11	B2	, m	RT	PRO LOGIC
P4	e, f	d	SPORT	PHANTOM	P12	В3	n	□ (RT)	☐ 3 STEREO
P5	g	е	AFFAIRS	EFFECT OFF	P13	B4	р	PTY	ms
P6	j, p	f	INFO	ONE TOUCH KARAOKE	P14	B5	r	□ (RTY)	kHz
P 7	m	g	NEWS	MPX	P15	В6	t	PS	MHz
P8	PRESET	h	EON	VOCAL AID	P16	S1		□ (PS)	TAPE MON

TEST POINT WAVEFORMS

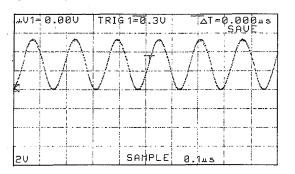
Point ① (Pin 20 of IC2) V: 2V/div H: 0.1µsec/div DC range 1: 1 probe



Point ② (Pin 56 of IC14) V: 2V/div H: 50nsec/div DC range 1: 1 probe



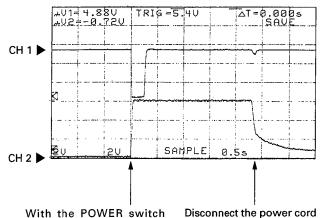
Point ③ (Pin 31 of IC302) V: 2V/div H: 0.1µsec/div DC range 1: 1 probe



Point (4) (Pin 20 of IC2)

CH 1 : Collector of Q305 CH 2 : Emitter of Q301

V : 2V/div H : 0.5sec/div DC range 1 : 1 probe



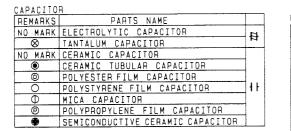
with the POWER switch turned ON, connect the power cord to the AC outlet.

Disconnect the power cord from the AC outlet.

^{*} This waveform is not available by pushing the power switch ON and OFF.

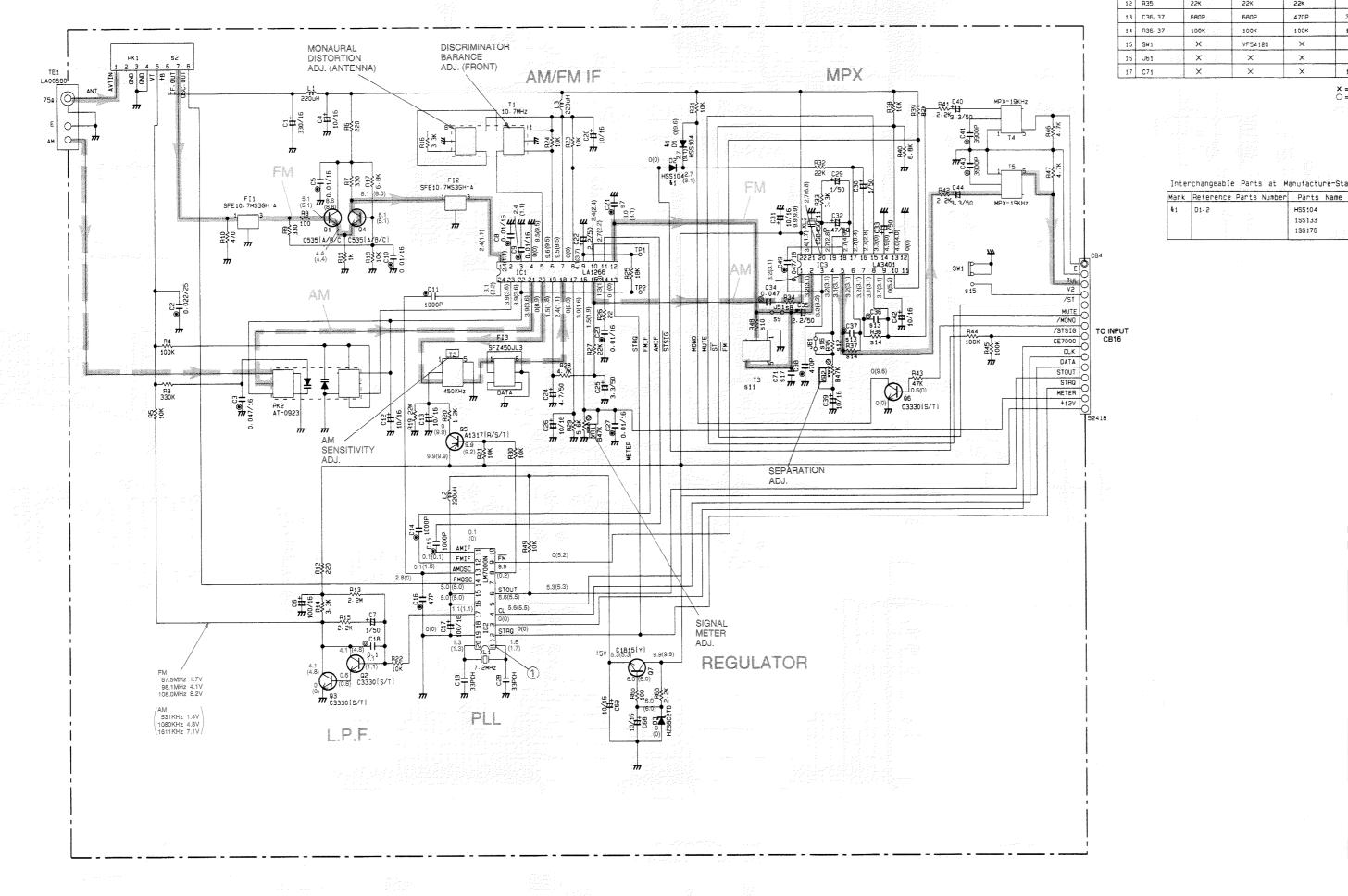
SCHEMATIC DIAGRAM (TUNER)

Each voltage given here represents that in the FM (98. 1MHz, STEREO) reception mode but the one in the parentheses () is that in the AM (1080kHz, MAN'L) reception mode. 1 : TEST POINT WAVEFORM (See page 29)



REMARKS	PARTS NAME
NO MARK	CARBON FILM RESISTOR (P=5)
Ø	CARBON FILM RESISTOR (P=10)
Δ	METAL OXIDE FILM RESISTOR
A	METAL FILM RESISTOR
×	METAL PLATE RESISTOR
Ø	FIRE PROOF CARBON FILM RESISTOR
	CEMENT MOLDED RESISTOR
0	SEMI VARIABLE RESISTOR
=	CHIP RESISTOR

ISTOR		
ARKS	PARTS NAME	NOTTOE
	CARBON FILM RESISTOR (P=5)	NOTICE (mode1
Ø	CARBON FILM RESISTOR (P=10)	(J) JAPANESE
Δ	METAL OXIDE FILM RESISTOR	(U) U. S. A
	METAL FILM RESISTOR	(C)····· CANADIAN
\boxtimes	METAL PLATE RESISTOR	(R)····· GENERAL
Æ	FIRE PROOF CARBON FILM RESISTOR	(A)····· AUSTRALIA
	CEMENT MOLDED RESISTOR	(B)····· BRITISH
	SEMI VARIABLE RESISTOR	(G) EUROPEAN
	CHIP RESISTOR	(T) CHINA (L) SINGAPORE
		(L) SINGAPORE



IC1: LA1266 AM/FM IF

A · B

22K

100K

188133 188176

VF54120

Interchangeable Parts at Manufacture-Stage

4.7K

120K

120PCH X = NOT USED

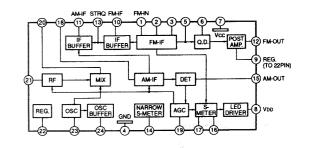
O = USED

VQ36570

8 R34

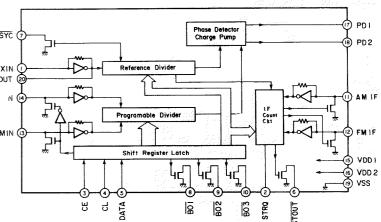
22K

100K

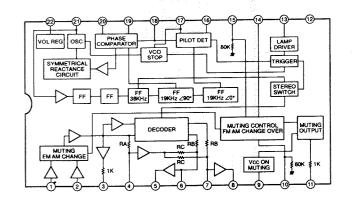


IC2: LM7000N

PLL Controller

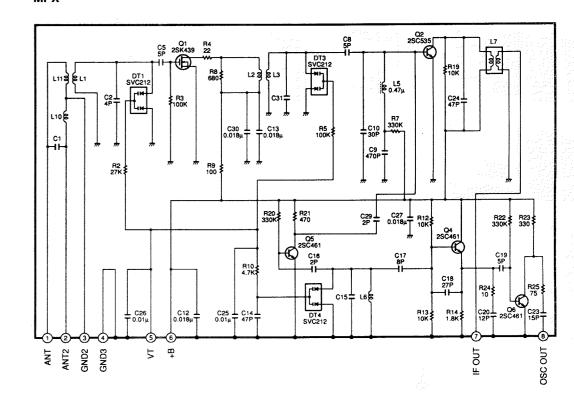


IC3: LA3401 MPX



PK1: EXV-17296G1 (VR242200)

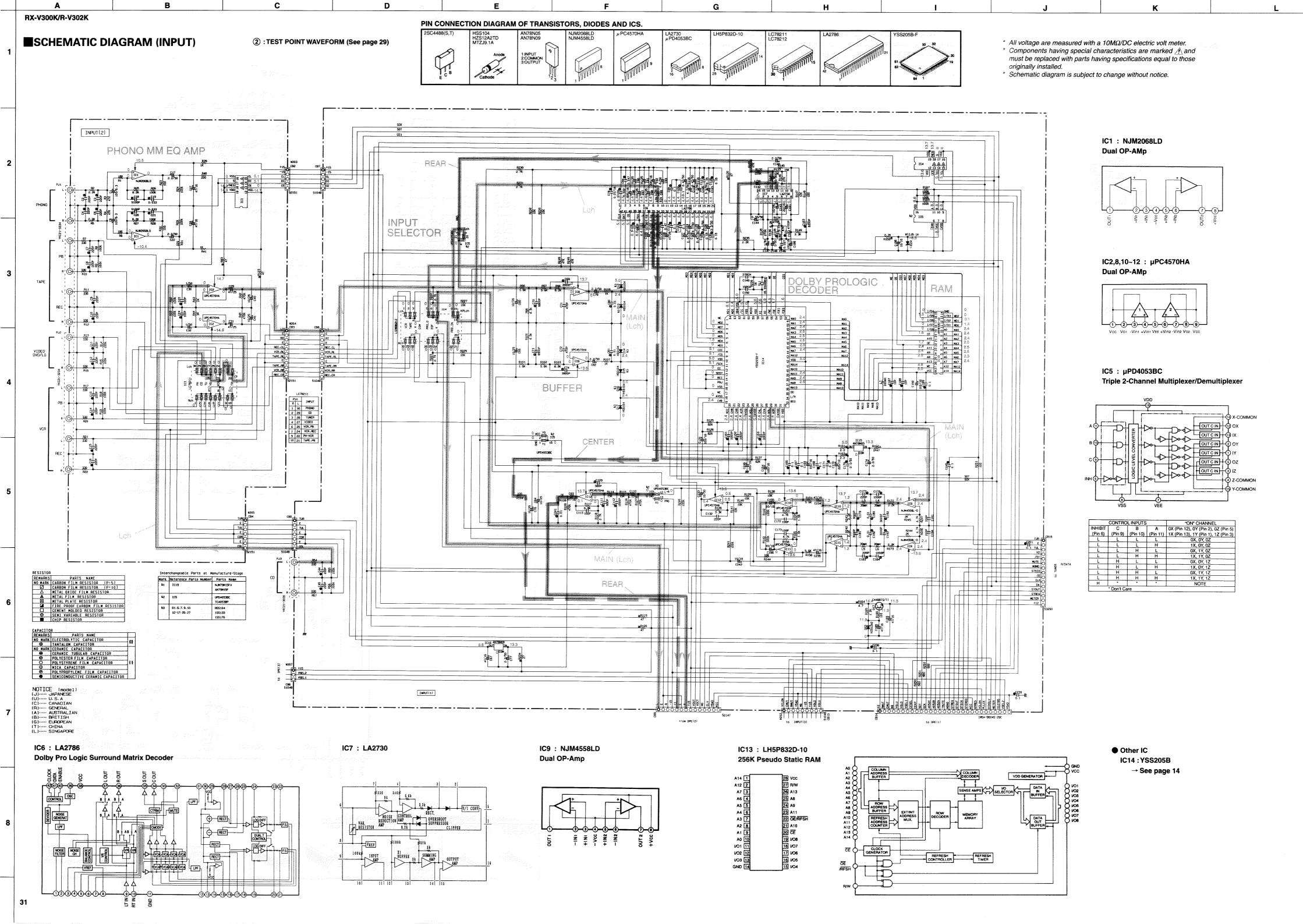
MPX



PIN CONNECTION DIAGRAM OF TRANSISTORS, DIODES AND ICS.

2SA1317(R,S,T) 2SC3330(R,S,T)	2SC1815(Y) 2SC535(A,B,C)	1SS104 HZS6C2TD	LM7000N	LA3401	LA1266
8		Anode	10		12
CE	ECB	Cathode	20	22 1	24

- * All voltage are measured with a 10M Ω /DC electric volt meter.
- * Components having special characteristics are marked <u>1</u> and must be replaced with parts having specifications equal to those originally installed.
- * Schematic diagram is subject to change without notice.

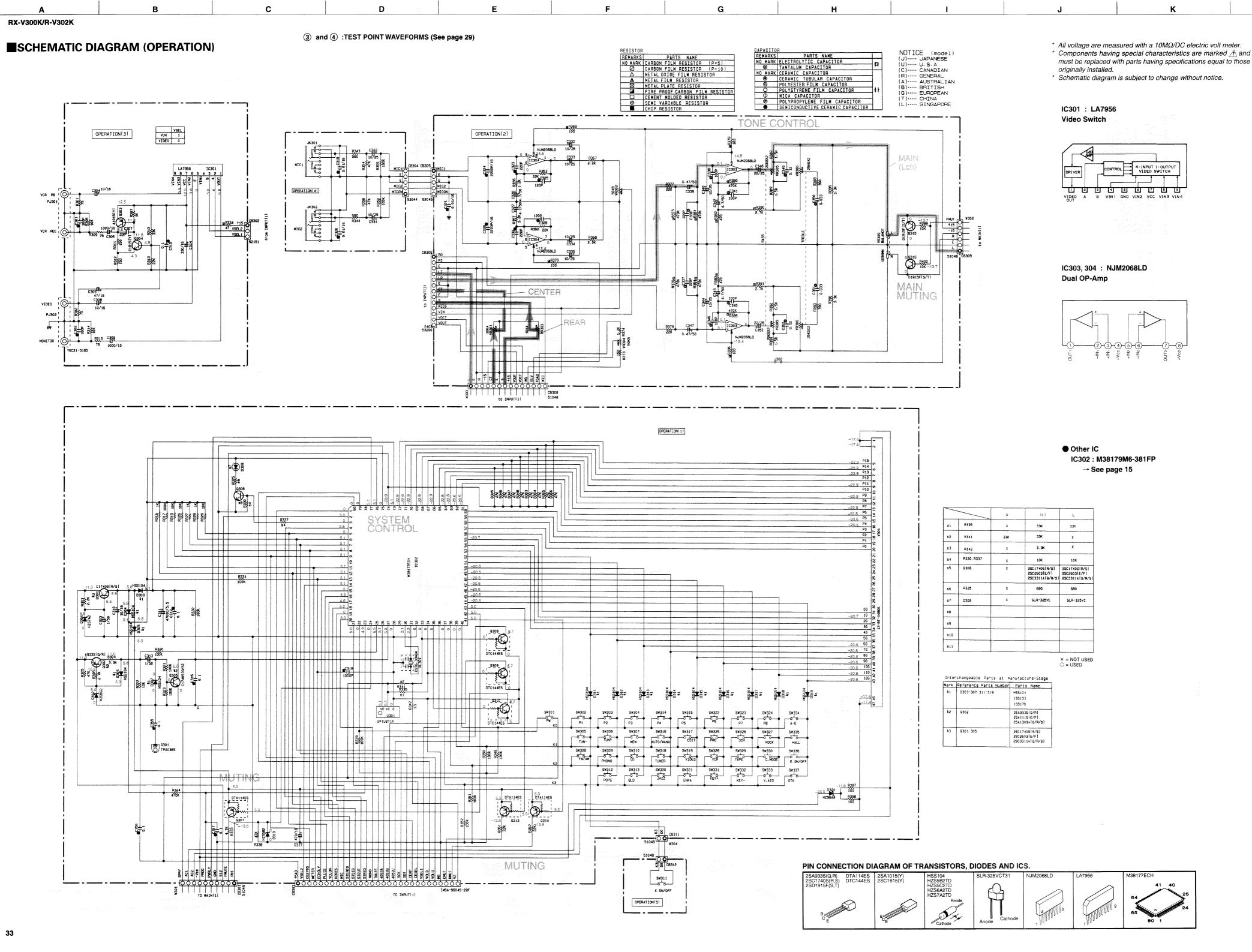


SCHEMATIC DIAGRAM (INPUT) Each voltage given here represents that in CD, PRO LOGIC, PHANTOM and the top side of IMPEDANCE SELECTOR, but the one in the parentheses () is that in the bottom side. IC18: M5220L **Dual OP-Amp** RESISTOR REMARKS PARTS NAME NO MARK CARBON FILM RESISTOR (P=5) CABBON FILM RESISTOR (P=10) A METAL OXIDE FILM RESISTOR METAL FILM RESISTOR FIRE PROOF CARBON FILM RESISTOR CEMENT MOLDED RESISTOR SEMI VARIABLE RESISTOR CHIP RESISTOR MAIN CAPACITOR REMARKS PARTS NAME NO MARK ELECTROLYTIC CAPACITOR TANTALUM CAPACITOR CERAMIC CAPACITOR POLYESTER FILM CAPACITOR POLYESTER FILM CAPACITOR POLYSTYRENE FILM CAPACITOR POLYPROPYLENE SEMICONDUCTIVE CERAMIC CAPACITOR SEMICONDUCTIVE CERAMIC CAPACITOR CENTER IC20,22,23 : µPC4570HA **Dual OP-Amp** NOTICE (model) (J)----- JAPANESE (U)----- U. S. A (C)---- CANADIAN (R)---- GENERAL (A)---- AUSTRALIAN (B)---- BRITISH (G)----- EUROPEAN (T)----- CHINA (L)---- SINGAPORE REAR REAR MUTING 1 VR1 IC21 : LB1641 MOTOR **Motor Drive** DRIVER IMPUT(3) REAR POWER AMP INPUT(4) INPUT LOGIC CENTER 227/500 152 CENTER POWER AMP

PIN CONNECTION DIAGRAM OF TRANSISTORS, DIODES AND ICS.

D

- * All voltage are measured with a 10MΩ/DC electric volt meter.
- * Components having special characteristics are marked \(\frac{\Lambda}{\} \) and must be replaced with parts having specifications equal to those originally installed.
- * Schematic diagram is subject to change without notice.



originally installed.

* Schematic diagram is subject to change without notice.

PARTS LIST

ELECTRICAL PARTS

■ WARNING

Components having special characteristics are marked \triangle and must be replaced with parts having specifications equal to those originally installed.

Carbon resistors (1/6W or 1/4W) are not included in the ELECTRICAL PARTS List.
 For the part Nos. of the carbon resistors, refer to the last page.

ABBREVIATIONS IN THIS LIST ARE AS FOLLOWS:

C. A. EL. CHP	: CHIP ALUMI. ELECTROLYTIC CAP	LED. DSPLY	: LED DISPLAY
C. CE	: CERAMIC CAP	LED. INFRD	: LED, INFRARED
C. CE. ARRAY	: CERAMIC CAP ARRAY	MODUL. RF	: MODULATOR, RF
		PHOT. CPL	: PHOTO COUPLER
C. CE. CHP	: CHIP CERAMIC CAP	PHOT. INTR	: PHOTO INTERRUPTER
C. CE. ML	: MULTILAYER CERAMIC CAP		
C. CE. M. CHP	: CHIP MULTILAYER CERAMIC CAP	PHOT. RFLCT	: PHOTO REFLECTOR
C. CE. SAFTY	: RECOGNIZED CERAMIC CAP	PIN. TEST	: PIN, TEST POINT
C. CE. TUBLR	: CERAMIC TUBULAR CAP	PLST. RIVET	: PLASTIC RIVET
C. CE. SMI	: SEMI CONDUCTIVE CERAMIC CAP	R. ARRAY	: RESISTOR ARRAY
C. EL	: ELECTROLYTIC CAP	R. CAR	: CARBON RESISTOR
C. MICA	: MICA CAP	R. CAR. CHP	: CHIP RESISTOR
C. ML. FLM	: MULTILAYER FILM CAP	R. CAR.FP	: FLAME PROOF CARBON RESISTOR
C. MP	: METALLIZED PAPER CAP	R. FUS	: FUSABLE RESISTOR
C. MYLAR	: MYLAR FILM CAP	R. MTL. CHP	: CHIP METAL FILM RESISTOR
C. MYLAR, ML	: MULTILAYER MYLAR FILM CAP	R. MTL. FILM	: METAL FILM RESISTOR
C. PAPER	: PAPER CAPACITOR	R. MTL. OXD	: METAL OXIDE FILM RESISTOR
C. PLS	: POLYSTYRENE FILM CAP	R. MTL. PLAT	: METAL PLATE RESISTOR
C. POL	: POLYESTER FILM CAP	RSNR. CE	: CERAMIC RESONATOR
C. POLY	: POLYETHYLENE FILM CAP	RSNR, CRYS	: CRYSTAL RESONATOR
	•	R. TW. CEM	: TWIN CEMENT FIXED RESISTOR
C. PP	: POLYPROPYLENE FILM CAP	R. WW	: WIRE WOUND RESISTOR
C. TNTL	: TANTALUM CAP		: BIND HEAD B-TITE SCREW
C. TNT. CHP	: CHIP TANTALUM CAP	SCR. BND. HD	
C.TRIM	:TRIMMER CAP	SCR. BW. HD	: BW HEAD TAPPING SCREW
CN	: CONNECTOR	SCR. CUP	: CUP TITE SCREW
CN. BS. PIN	: CONNECTOR, BASE PIN	SCR.TERM	: SCREW TERMINAL
CN.CANNON	: CONNECTOR, CANNON	SCR. TR	: SCREW, TRANSISTOR
CN. DIN	: CONNECTOR, DIN	SUPRT. PCB	; SUPPORT, P. C. B.
CN. FLAT	: CONNECTOR, FLAT CABLE	SURG. PRTCT	: SURGE PROTECTOR
CN. POST	: CONNECTOR, BASE POST	SW. TACT	: TACT SWITCH
COIL. MX. AM	: COIL, AM MIX	SW. LEAF	: LEAF SWITCH
COIL. AT. FM	: COIL, FM ANTENNA	SW. LEVER	: LEVER SWITCH
COIL. DT. FM	: COIL, FM DETECT	SW. MICRO	: MICRO SWITCH
COIL. MX.FM	: COIL, FM MIX	SW. PUSH	: PUSH SWITCH
COIL. OUTPT	: OUTPUT COIL	SW. RT. ENC	: ROTARY ENCODER
DIOD. ARRAY	: DIODE ARRAY	SW. RT. MTR	: ROTARY SWITCH WITH MOTOR
DIODE, BRG	: DIODE BRIDGE	SW. RT	: ROTARY SWITCH
DIODE, CHP	: CHIP DIODE	SW. SLIDE	: SLIDE SWITCH
DIODE, VAR	: VARACTOR DIODE	TERM. SP	: SPEAKER TERMINAL
DIOD. Z. CHP	: CHIP ZENER DIODE	TERM.WRAP	: WRAPPING TERMINAL
DIODE, ZENR	: ZENER DIODE	THRMST. CHP	: CHIP THERMISTOR
		TR. CHP	: CHIP TRANSISTOR
DSCR. CE	: CERAMIC DISCRIMINATOR		
FER. BEAD	: FERRITE BEADS	TR. DGT	: DIGITAL TRANSISTOR
FER. CORE	: FERRITE CORE	TR. DGT. CHP	: CHIP DIGITAL TRANSISTOR
FET. CHP	: CHIP FET	TRANS	: TRANSFORMER
FL. DSPLY	: FLUORESCENT DISPLAY	TRANS.PULS	: PULSE TRANSFORMER
FLTR. CE	: CERAMIC FILTER	TRANS.PWR	: POWER TRANSFORMER ASS'y
FLTR. COMB	: COMB FILTER MODULE	TUNER. AM	: TUNER PACK, AM
FLTR. LC. RF	: LC FILTER, EMI	TUNER. FM	: TUNER PACK, FM
GND. MTL	: GROUND PLATE	TUNER. PK	: FRONT-END TUNER PACK
GND. TERM	: GROUND TERMINAL	VR	: ROTARY POTENTIOMETER
HOLDER. FUS	: FUSE HOLDER	VR. MTR	: POTENTIOMETER WITH MOTOR
IC. PRTCT	: IC PROTECTOR	VR. SW	: POTENTIOMETER WITH ROTARY SW
JUMPER, CN	: JUMPER CONNECTOR	VR. SLIDE	: SLIDE POTENTIOMETER
JUMPER, TST	: JUMPER, TEST POINT	VR. TRIM	: TRIMMER POTENTIOMETER
LDTCT	LIGHT DETECTING MODULE		

Note) Those parts marked with "#" are not included in the P. C. B. Ass'y.

: LIGHT DETECTING MODULE : LIGHT EMITTING MODULE

L. DTCT

INPUT P.C.B.

	Schm Ref.	PART NO.	D	escription	
*	1101.	VY885500	P.C.B.	INPUT	
	CB1	VK024900	CN.BS.PIN	5P	
	CB2	VK026400	CN.BS.PIN	5P	
	CB3	VK027000	CN.BS.PIN	11P	
	CB4	VK026600	CN.BS.PIN	7P	
	CB5	Vi878500	CN.BS.PIN	7P	
	CB6	Vi878100	CN.BS.PIN	3P	
	CB7	Vi878300	CN.BS.PIN	5P	
	CB8	Vi878900	CN.BS.PIN	11P	
	CB9	VK025800	CN.BS.PIN	14P	
	CB10	VK025200	CN.BS.PIN	8P	
	CB11	Vi878400	CN.BS.PIN	6P	
	CB12	Vi878400	CN.BS.PIN	6P	
	CB13	Vi878700	CN.BS.PIN	9P .	
	CB14	VU272900	CN	29P	
	CB15	VQ961600	CN	13P	
	CB16	VQ963600	CN.BS.PIN	15P	
	CB17	Vi878300	CN.BS.PIN	5P	
	CB18	VK025300	CN.BS.PIN	9P	
	CB20	VP206500	HOLDER.FUS	EYF-52BC	
	C1	VF760000	C.EL	100uF	10V
	C2	UA652220	C.MYLAR	220pF	50V
	C3	UA652220	C.MYLAR	220pF	50V
	C4	UA652220	C.MYLAR	220pF	50V
	C5	UA652220	C.MYLAR	220pF	50V
	C6	VF760000	C.EL	100uF	10V
	C7	UA652220	C.MYLAR	220pF	50V
	C8	UA652220	C.MYLAR	220pF	50V
	C9	VG278400	C.CE.TUBLR	220pF	50V
	C10	VG278400	C.CE.TUBLR	220pF	50V
	C11	VG278400	C.CE.TUBLR	220pF	50V
	C12	VG278400	C.CE.TUBLR	220pF	50V
	C13	VG278400	C.CE.TUBLR	220pF	50V
	C14	VG278400	C.CE.TUBLR	220pF	50V
	C15	VG278400	C.CE.TUBLR	220pF	50V
	C16	VG278400	C.CE.TUBLR	220pF	50V
	C17	VJ839200	C.EL	2.2uF	50V
	C18	UA653910	C.MYLAR	9100pF	50V
	C19	UA654330	C.MYLAR	0.033uF	50V
	C20	UA653910	C.MYLAR	9100pF	50V
	C21	UA654330	C.MYLAR	0.033uF	50V
	C22	VJ839200	C.EL	2.2uF	50V
	C23	UA652100	C.MYLAR	100pF	50V
	C24	UA652100	C.MYLAR	100pF	50V
	C25	UM417100	C.EL	10uF	50V
	C26	VF466800	C.CE.TUBLR	100pF	50V
	C27	VJ837200	C.EL	47uF	16V
	C28	VJ837200	C.EL	47uF	16V
	C29	UJ667470	C.EL	47uF	50V
	C30	VJ839100	C.EL	1uF	50V
	C31	UJ667470	C.EL	47uF	50V
	C32	VJ839100	C.EL	1uF	50V
	* New F	UA653330	C.MYLAR	3300pF	50V

Schm Ref.	PART NO.	D	escription	
C34	VG278400	C.CE.TUBLR	220pF	50V
C35	VE117600	C.EL	220uF	10V
C36	Ui367220	C.EL	22uF	50V
C37	UH178100	C.EL	100uF	63V
C38	VH053100	C.CE.TUBLR	0.1uF	50V
C39	UJ667470	C.EL	47uF	50V
C40	UM417100	C.EL	10uF	50V
C41	UM417100	C.EL	10uF	50V
C42	FH611220	C.CE	22pF	500V
C43	VZ410500	C.EL	47uF	35V
C44	VG278400	C.CE.TUBLR	220pF	50V
C45	VG278400	C.CE.TUBLR	220pF	50V
C46	VJ837200	C.EL	47uF	16V
C47	VF466800	C.CE.TUBLR	100pF	50V
C48	UA653100	C.MYLAR	1000pF	50V
C49	VJ837200	C.EL	47uF	16V
C50	UJ668100	C.EL	100uF	50V
C50	UJ668100	C.EL	100uF	50V
C52	Ui367220	C.EL	22uF	50V
C53	FG212100	C.CE	100pF	50V
C54	UA654100	C.MYLAR	0.01uF	50V
C55	FG210500	C.CE	5pF	50V
C56	UJ668100	C.EL	100uF	50V
C57	FG212100	C.CE	100pF	50V
C58	VF466800	C.CE.TUBLR	100pF	50V
C59	VR325000	C.MYLAR	100pF	100V
C60	VJ839100	C.EL	1uF	50V
C61	VR325000	C.MYLAR	100pF	100V
C62	VF964800	C.EL	100uF	16V
C63	VJ839100	C.EL	1uF	50V
C64	UA654470	C.MYLAR	0.047uF	50V
C65	UM417100	C.EL	10uF	50V
C66	UM417100	C.EL	10uF	50V
C67	VJ837200	C.EL	47uF	16V
C68	VH053100	C.CE.TUBLR	0.1uF	50V
C69	UA653390	C.MYLAR	3900pF	50V
C70	UA653680	C.MYLAR	6800pF	50V
C71	FG212470	C.CE	470pF	50V
C72	FG212470	C.CE	470pF	50V
C73	UA653680	C.MYLAR	6800pF	50V
C74	UA653390	C.MYLAR	3900pF	50V
C76	UM417100	C.EL	10uF	50V
C77	VJ839200	C.EL	2.2uF	50V
C78	VF467300	C.CE.TUBLR	0.01uF	16V
C79	VJ839200	C.EL.	2.2uF	50V
C80	UA654100	C.MYLAR	0.01uF	50V
C81	UA654100	C.MYLAR	0.01uF	50V
	VJ839200	C.EL	1	50V 50V
C82	1.0		2.2uF	16V
C83	VJ837200 UM417100	C.EL	47uF	
C84		C.EL	10uF	50V
C85	UA654470	C.MYLAR	0.047uF	50V
C86	UJ667470	C.EL	47uF	50V
C87	VF964800	C.EL	100uF	16V

^{*} New Parts

^{*} New Parts

INPUT P.C.B.

Schm Ref.	PART NO.	D	escription	
C88	UM417100	C.EL	10uF	50V
C89	UM417100	C.EL	10uF	50V
C90	UM417100	C.EL	10uF	50V
C91	UM417100	C.EL	10uF	50V
C92	UJ648220	C.EL	220uF	25V
C93	VJ839100	C.EL	1uF	50V
C94	UA654470	C.MYLAR	0.047uF	50V
C95	UA655100	C.MYLAR	0.1uF	50V
C96	UJ648220	C.EL	220uF	25V
C97	UM417100	C.EL	10uF	50V
C98	UM417100	C.EL	10uF	50V
C99	VJ839100	C.EL	1uF	50V
C100	UA654220	C.MYLAR	0.022uF	50V
C101	UM417100	C.EL	10uF	50V
C102	UM407220	C.EL	22uF	25V
C103	UA655470	C.MYLAR	0.47uF	50V
C104	UA655100	C.MYLAR	0.1uF	50V
C105	UA652680	C.MYLAR	680pF	50V
C106	UM417100	C.EL	10uF	50V
C107	UJ667470	C.EL	47uF	50V
C108	UJ667470	C.EL	47uF	50V
C109	UA652560	C.MYLAR	560pF	50V
C110	UM416470	C.EL	4.7uF	50V
C111	UA652680	C.MYLAR	680pF	50V
C112	UA653150	C.MYLAR	1500pF	50V
C113	FG212100	C.CE	100pF	50V
C115	VJ839000	C.EL	0.47uF	50V
C116	VJ839000	C.EL	0.47uF	50V
C117	UA655150	C.MYLAR	0.15uF	50V
C118	UA655150	C.MYLAR	0.15uF	50V
C119	UM416470	C.EL	4.7uF	50V
C120		C.EL	4.7uF	50V
C121		C.EL	3.3uF	50V
C122	UA655100	C.MYLAR	0.1uF	50V
C123	UA655100	C.MYLAR	0.1uF	50V
C124	UM416470		4.7uF	50V
C125	UM416470		4.7uF	50V
C126	UM216330	1	3.3uF	50V
C127	VJ839000	C.EL	0.47uF	50V
C128	VJ839000	C.EL	0.47uF	50V
C129	UA655150	C.MYLAR	0.15uF	50V
C130	UA655150	C.MYLAR	0.15uF	50V
C131	VF964800	C.EL	100uF	16V
C132	FG212220	C.CE	220pF	50V
C139	VG289900	C.EL	2200uF	35V
C140	VJ839200	C.EL	2.2uF	50V
C141	UM417100	C.EL	10uF	50V
C142	VJ839100	C.EL	1uF	50V
C143	UM417100	C.EL	10uF	50V
C144	VJ402700	C.EL	0.33uF	50V
C145	UA654330	C.MYLAR	0.033uF	50V
C146	UA654270	C.MYLAR	0.027uF	50V
C147	UM215100	C.EL	0.1uF	50V

Schm Ref.	PART NO.	D	escription	
C148	VJ839100	C.EL	1uF	50V
C149	VA761100	C.CE	27pF	50V
C150	VA760800	C.CE	15pF	50V
C151	UA653330	C.MYLAR	3300pF	50V
C152	UA653330	C.MYLAR	3300pF	50V
C153	UA653330	C.MYLAR	3300pF	50V
C154	VF964800	C.EL	100uF	16V
C155	VJ836900	C.EL	10uF	16V
C156	VJ836900	C.EL	10uF	16V
C157	UA654470	C.MYLAR	0.047uF	50V
C158	UA654470	C.MYLAR	0.047uF	50V
C159	VG289900	C.EL	2200uF	35V
	VH053100			50V
C160		C.CE.TUBLR	0.1uF	
C161	UM407220	C.EL	22uF	25V
C163	UA653820	C.MYLAR	8200pF	50V
C164	UA653470	C.MYLAR	4700pF	50V
C165	VF964800	C.EL	100uF	16V
C166	VH053100	C.CE.TUBLR	0.1uF	50V
C167	VH053100	C.CE.TUBLR	0.1uF	50V
C168	VH053100	C.CE.TUBLR	0.1uF	50V
C169	VF964800	C.EL	100uF	16V
C170	VE117600	C.EL	220uF	10V
C171	VH053100	C.CE.TUBLR	0.1uF	50V
C172	FG212100	C.CE	100pF	50V
C173	FG212100	C.CE	100pF	50V
C174	VJ839200	C.EL	2.2uF	50V
C176	VH053100	C.CE.TUBLR	0.1uF	50V
C177	UA652220	C.MYLAR	220pF	50V
C178	UA653100	C.MYLAR	1000pF	50V
C179	UA653300	C.MYLAR	3000pF	50V
C180	UA654100	C.MYLAR	0.01uF	50V
C181	UA653300	C.MYLAR	3000pF	50V
C182	UA654100	C.MYLAR	0.01uF	50V
C183	UA652220	C.MYLAR	220pF	50V
C184	UA653100	C.MYLAR	1000pF	50V
C185	VJ837200	C.EL	47uF	16V
C186	VJ836900	C.EL	10uF	16V
C187	VF466600	C.CE.TUBLR	10pF	50V
C188	VF466600	C.CE.TUBLR		50V
	l i		10pF	
C189	VH053100	C.CE.TUBLR	0.1uF	50V
C190	VF964800	C.EL	100uF	16V
C191	FG212330	C.CE	330pF	50V
C192	UA653300	C.MYLAR	3000pF	50V
C193	UA653300	C.MYLAR	3000pF	50V
C194	FG212220	C.CE	220pF	50V
C195	VJ837200	C.EL	47uF	16V
C196	FG212120	C.CE	120pF	50V
C197	VJ837200	C.EL	47uF	16V
C198	UM417100	C.EL	10uF	50V
C199	VG279300	C.CE.TUBLR	1800pF	16V
C200	UM417100	C.EL	10uF	50V
C201	VH053100	C.CE.TUBLR	0.1uF	50V
C202	UK665470	C.EL	0.47uF	50V
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* New Parts

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INPUT P.C.B.

Schm Ref.	PART NO.	D	escription			Schm Ref.	PART NO.	D	escription
C203	UK665470	C.EL	0.47uF	50V		D23	VM975500	DIODE.ZENR	HZ\$12A2TD 12V
C204	VF467100	C.CE.TUBLR	4700pF	16V		D24	VG439100	DIODE.ZENR	MTZJ9.1A 9.1V
C205	VG278600	C.CE.TUBLR	330pF	50V		D26	VD631600	DIODE	1SS133,176,HSS104
C206	UA654150	C.MYLAR	0.015uF	50V		D27	VD631600	DIODE	1SS133,176,HSS104
C207	UM215100	C.EL	0.1uF	50V		D28	VS277600	DIODE.ZENR	HZS3C2TD 3.0V
C208	VF467300	C.CE.TUBLR	0.01uF	6V		D29	VM974200	DIODE.ZENR	HZS5C2TD 5.0V
C209	VJ839200	C.EL	2.2uF	50V		IC1	XM356A00	IC	NJM2068LD
C210	VJ839200	C.EL	2.2uF	50V		IC2	XB247301	IC	uPC4570HA
C211	VJ839100	C.EL	1uF	50V		IC3	XP894A00	IC	LC78211
C217	FG212100	C.CE	100pF	50V	*	IC4	XP895A00	IC	LC78212
C218	UA652220	C.MYLAR	220pF	50V		IC5	iG105900	IC	uPD4053BC
C219	VJ837200	C.EL	47uF	16V		IC6	XS023A00	IC	LA2786 DOLBY
C220	VJ837200	C.EL	47uF	16V		IC7	XD386001	IC	LA2730
C221	UA652220	C.MYLAR	220pF	50V		IC8	XB247301	IC	uPC4570HA
C222	FG211100	C.CE	10pF	50V		IC9	XQ212A00	IC	NJM4558LD
C224	VF466800	C.CE.TUBLR	100pF	50V		IC10	XB247301	IC	uPC4570HA
C225	UM407220		22uF	25V.		IC11	XB247301	IC	uPC4570HA
C226	UM417100	C.EL	10uF	50V		IC12	XB247301	IC	uPC4570HA
C227			10uF	50V		IC13	XS881A00		LH5P832D-10 PSRAM
C228	UJ638470	C.EL	470uF	16V	*	IC14	XH853B00		YSS205B-F/KP
C229	VG722100	C.EL	1uF	50V		IC15	XA507A00		AN78N05
C230		C.CE.TUBLR	0.1uF	50V		IC16	XQ084A00	IC	AN78N09
C233	UM417100		10uF	50V		IC18	iG092000	IC	M5220L
C234	VJ837200	C.EL	47uF	16V		IC19	XG505A00		NJM79M15FA
C235	VJ837200	C.EL	47uF	16V		IC20	XB247301		uPC4570HA
C236		C.CE.TUBLR	0.1uF	50V		IC21	XF494A00		LB1641
C239		C.CE.TUBLR	0.1uF	50V		IC22	XB247301		uPC4570HA
C241		C.MYLAR	0.01uF	50V		IC23	XB247301		uPC4570HA
C242	VJ836900	C.EL	10uF	16V		L1	VP575600		1.5uH
C245		C.CE.TUBLR	0.1uF	50V		L2	VP575600	COIL	1.5uH
C246		C.EL	100uF	10V		L3	GE901850	COIL	39mH
D1	VD631600		1SS133,17			L4	GE901850		39mH
D2		DIODE.ZENR				L5	GE901850		39mH
D3		DIODE.ZENR				L6	GE901850		39mH
D4		DIODE.ZENR				L.7	VB109600	COIL	220uH
D5		DIODE.ZENR				PJ1	VN308700	JACK.PIN	6P
D6	VD631600		1SS133,17			PJ2	VU857800		6P
D7	VD631600		1SS133,17			PJ3	VR765100		2P
D8	VN008700		1SS270A	-,		Q1	VP883100		2SC1890A D,E
D9	VD631600		1SS133,17	6.HSS104		Q2	VP883100		2SC1890A D,E
D10	VD631600			6,HSS104	\triangle	Q3	VP883000		2SA893A D,E
D11		DIODE.ZENR	-			Q4	VP872700	TR	2SC4488 S,T
D12	VD631600			6,HSS104		Q5	VP872600	TR	2SA1708 S,T
D13		DIODE		6,HSS104		Q6	iC224030	TR	2SC2240 GR,BL
D14		DIODE		6,HSS104	A	Q7	VP872700	TR	2SC4488 S,T
D15	VD631600			6,HSS104	I ^	Q8	iC174020	TR	2SC1740S R,S
D16	VD631600			6,HSS104	۸ ا	Q9	VP872600		2SA1708 S,T
D17	VD631600			6,HSS104		Q10	VV855300	1	2SD856 Q,P
D18		DIODE.ZENR	HZS242TE			Q11	VP883100		2SC1890A D,E
D19		DIODE.ZENIN	2A02M	∕ • T V		Q12	VV855300	TR	2SD856 Q,P
D20		DIODE	2A02M		A	Q13A	iX615750	TR	2SA1694 O,P,Y
D21		DIODE	2A02M		$\stackrel{\cdot \cdot \cdot}{\mathbb{A}}$	Q13C	iX615760	TB	2SC4467 O,P,Y
D21	VV731400 VV731400		2A02M			Q14	VP883000		2SA893A D,E
* New F		DIODE	LAOLIVI		Ι.	* New		111	2070007 D,L

^{*} New Parts

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INPUT P.C.B. & MAIN P.C.B.

Schm Ref.	PART NO.	Description				
Q15	VP883100	TR	2SC1890A D,E			
Q17	VP872700	TR	2SC4488 S,T			
Q21	VK432900	TR	2SD1915F S,T			
Q22	VK432900 VK432900	TR	2SD1915F S,T			
Q23	iC174020	TR	2SC1740S R,S			
R51	HV454100	R.CAR.FP	10Ω 1/4W			
R53	HL314680	R.MTL.OXD	68Ω 1/4W			
1	HV455470	R.CAR.FP	470Ω 1/4W			
R58		R.CAR.FP				
R62	HV455470	R.FUS	470Ω 1/4W			
R63	VK188600	l	470Ω 1/4W			
R67	HV455330	R.CAR.FP	330Ω 1/4W			
R73	HV455120	R.CAR.FP	120Ω 1/4W			
R74	HV455100	R.CAR.FP	100Ω 1/4W			
R75	HV453470	R.CAR.FP	4.7Ω 1/4W			
R76	HV456270	R.CAR.FP	2.7KΩ 1/4W			
R77	HV455470	R.CAR.FP	470Ω 1/4W			
R78	HV456820	R.CAR.FP	8.2KΩ 1/4W			
R79	HV453470	R.CAR.FP	4.7Ω 1/4W			
R80	HV456150	R.CAR.FP	1.5KΩ 1/4W			
R81	HV456150	R.CAR.FP	1.5KΩ 1/4W			
R82	VE869300	R.MTL.OXD	0.1Ω 2W			
R83	HV454470	R.CAR.FP	47Ω 1/4W			
R84	HV454220	R.CAR.FP	22Ω 1/4W			
R88	HV457100	R.CAR.FP	10KΩ 1/4W			
R91	VU981700	R.MTL.PLAT	0.22Ω+0.22 3W			
R92	HV454100	R.CAR.FP	10Ω 1/4W			
R110	HV454100	R.CAR.FP	10Ω 1/4W			
R119	HV454470	R.CAR.FP	47Ω 1/4W			
R120	HV454470	R.CAR.FP	47Ω 1/4W			
R121	HL425820	R.MTL.OXD	820Ω 2W			
R122	HV454100	R.CAR.FP	10Ω 1/4W			
R123	HV454470	R.CAR.FP	47Ω 1/4W			
R124	HV454100	R.CAR.FP	10Ω 1/4W			
R130	HV454470	R.CAR.FP	47Ω 1/4W			
R159	HV456270	R.CAR.FP	2.7KΩ 1/4W			
R161	HV453220	R.CAR.FP	2.2Ω 1/4W			
R162	HL314470	R.MTL.OXD	47Ω 1W			
R163	HV453220	R.CAR.FP	2.2Ω 1/4W			
R164	HV453470	i '	4.7Ω 1/4W			
R210	HV455100	R.CAR.FP	100Ω 1/4W			
R212	HV455100	R.CAR.FP	100Ω 1/4W			
R213	HV455100	R.CAR.FP	100Ω 1/4W			
R215	HV455100	R.CAR.FP	100Ω 1/4W			
R216	HV454100	R.CAR.FP	10Ω 1/4W			
R217	HV454100	R.CAR.FP	10Ω 1/4W			
R220	HL314680	R.MTL.OXD	1022			
R221	HL314680	R.MTL.OXD	68Ω 1W			
R224	HV453470	R.CAR.FP	4.7Ω 1/4W			
R225						
	HV453470	R.CAR.FP	4.7Ω 1/4W			
R234	HV454270	R.CAR.FP	27Ω 1/4W			
RY1	VK438300	RELAY	DH24D2-OT/M2			
TE1	VS349400	TERM.SP	6P			
· VR1	VZ260700	VR.MTR	RK16814MG 100KAx4			

	Schm Ref.	PART NO.	Description					
	XL1	VJ719800	RSNR.CRYS	16.9344MH	Ηz			
		VJ828000	PIN	IMSA-6024	I-03E			
		BB071360	SCR.TERM	8.3x13				
*		VY885200	P.C.B.	MAIN(U)				
*		VY885300	P.C.B.	MAIN(BT)				
*		VY885400	P.C.B.	MAIN(L)				
	CB101	VF728300	CN	6P				
	CB102	VF728200	CN.BS.PIN	10P				
	CB103	VS839400	CN.BS.PIN	4P				
	CB104	VS839500	CN	4P				
	CB105	VG879900	CN.BS.PIN	2P				
	CB107	Vi878600	CN.BS.PIN	8P				
	CB108	VR428900		4P				
	CB109	VR428900	CN.BS.PIN	4P				
	CB111	VP206500	HOLDER.FUS	EYF-52BC				
	CB112	VP206500	HOLDER.FUS	EYF-52BC				
	CB113 CB114	VP206500 VP206500	HOLDER.FUS	EYF-52BC				
	CB114	VP206500 VP206500	HOLDER.FUS	EYF-52BC EYF-52BC				
	CB116	VP206500	HOLDER.FUS	EYF-52BC				
	CB117	VQ584900	CN.BS.PIN	7P	(111)			
	CB118	VQ584900		7P				
	CB120	VD004700		4P				
	C101	UM416470	C.EL	4.7uF	50V			
	C102	UM416470	C.EL.	4.7uF	50V			
	C103	UA652100	C.MYLAR	100pF	50V			
	C104	UA652100	C.MYLAR	100pF	50V			
	C105	FG212100	C.CE	100pF	50V			
	C106	FG212100		100pF	50V			
	C107	UA653100	C.MYLAR	1000pF	50V			
	C108 C109	UA653100	C.MYLAR C.EL	1000pF	50V 16V			
	C109	VJ837200 VJ837200	C.EL	47uF 47uF	16V 16V			
	C111	VR516400		15p	500V			
	C112	VR516400	C.CE	15p	500V			
	C113	UJ667470	C.EL	47uF	50V			
	C114	UJ667470	C.EL	47uF	50V			
	C115	VG291200	C.EL	47uF	50V			
	C116	VG291200	C.EL	47uF	50V			
	C117	VR325000	C.MYLAR	100pF	100V			
	C118	VR325000	C.MYLAR	100pF	100V			
	C119	VR325000	C.MYLAR	100pF	100V			
	C120	VR325000	C.MYLAR	100pF	100V			
	C121	UA654820	C.MYLAR	0.082uF	50V			
	C122	UA654820	C.MYLAR	0.082uF	50V			
	C123 C124	UA655100 UA655100	C.MYLAR C.MYLAR	0.1uF 0.1uF	50V 50V			
	C124	UA654220	C.MYLAR C.MYLAR	0.1uF 0.022uF	50V 50V			
	C126	UA654220	C.MYLAR	0.022uF	50V			
	C127	UA652100	C.MYLAR	100pF	50V			

* New Parts

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* New Parts

MAIN P.C.B.

	Schm Ref.	PART NO.	Description			Schm Ref.	PART NO.	Description			
	C128	VS741700	C.CE.SAFTY	0.01uF	275V	\triangle	Q104	VP883000	TR	2SA893A E	D,E
	C129	VK182500	C.EL	330uF	63V	$\overline{\triangle}$	Q105	VR325600	TR	2SC2229 C),Y
	C131	UM416470	C.EL	4.7uF	50V	\triangle	Q106	VR325600	TR	2SC2229 C),Y
	C133	VC815000	C.EL	220uF	6.3V	\triangle	Q107	iC174020	TR	2SC1740S	R,S
	C134	UM416470	C.EL	4.7uF	50V	\triangle	Q108	iC174020	TR	2SC1740S	R,S
	C135	UM416470	C.EL	4.7uF	50V	\triangle	Q109	VP872700	TR	2SC4488 S	;,T
<u>^</u>	C136	Vi846000	C.EL	22uF	63V	\triangle	Q110	VP872700	TR	2SC4488 S	;,T
	C137	UM416470	C.EL	4.7uF	50V	\triangle	Q111	VP872600	TR	2SA1708 S	i,T
	C138	UJ667470	C.EL	47uF	50V	\triangle	Q112	VP872600	TR	2SA1708 S	i,T
	C139	UJ667470	C.EL	47uF	50V		Q113	VP883100	TR .	2SC1890A	D,E
<u> </u>	C140		C.EL	6800uF	56V		Q114	VP883100	TR ·	2SC1890A	
<u> </u>	C141	VV951800		6800uF	56V		Q115	VP883000	TR	2SA893A [I
Â	C142	VR325400		0.1uF	100V		Q116	iC174020	TR	2SC1740S	
\triangle	C143	VR325400		0.1uF	100V		Q117	iC174020	TR	2SC1740S	
	C144	UA653100		1000pF	50V		Q118	iC287820	TR	2SC2878 A	
	C145	FG214100		0.01uF	50V	Δ.	Q119	iC174020	TR	2SC1740S	
		UA653100		1000pF	50V	<u>^</u>	Q120	iA101521	TR	2SA1015 Y	
^	C147	UA654100		0.01uF	.50V	<u> </u>	Q121	VN996900	TR	2SC4495	D 0
<u>^</u>	C149	Ui377470	C.EL	47uF	63V(RT)		Q122	iC174020	TR	2SC1740S	
<u> </u>	C149	VK457600		330uF	25V(UL)		Q123	VP768300	TR	2SC4466 C	' '
	C150		C.EL	220uF	25V(RT)		Q124	VP883100	TR	2SC1890A	
	C151		C.EL	10uF	16V(RT)	٨	Q127	VG722000		DTC144ES	
	C164	UM416470		4.7uF	50V	\triangle	Q128	VR402300		2SB647 C,	
	C165 D101	UK665470		0.47uF 1SS270A	50V	Â	Q129A	iX615750 iX615760	TR TR	2SA1694 C 2SC4467 C	
	D101	VN008700 VN008700		1SS270A		Â	Q130A		TR	2SA1694 C	
	D102	l .	DIODE.BRG		A 200V(RT)	<u> </u>		iX615760	TR	2SC4467 C	
	D105		DIODE.ZENR		, ,	\triangle	Q133	iE000020	FET	2SK30ATM	
	D100	1	DIODE.ZENR			A	R113		R.CAR.FP	i	1/4W
\triangle	D107	VS997800		1T2	240	$\stackrel{lack}{\hat{\Lambda}}$	R114	HV454470		t i	1/4W
	D109			HZS162TE) 16V	<u> </u>	R127	HV456270			1/4W
	D110			HZS152TE			R128	HV456270			1/4W
\triangle		iH001090	DIODE.BRG	S4VB20 2			R131	HV456100			1/4W
	D112	VD631600			76,HSS104		R132		R.CAR.FP		1/4W
\triangle	D113		DIODE	1T2(UL)	7,		R133		R.CAR.FP		1/4W
A. alland	D114		DIODE.ZENR		D 12V(RT)		R134	HV453470		4.7Ω	1/4W
	D117	VD631600			76,HSS104		R135	HV453470	R.CAR.FP	4.7Ω	1/4W
\bigwedge	F101	KB001660	FUSE	T1.60A 25	0V(L)		R136	HV453470	R.CAR.FP	4.7Ω	1/4W
\triangle	F101	VS823000	FUSE	T5.0A 125	V(URT)	\triangle	R137	VU981700	R.MTL.PLAT	0.22Ω+0.22	2 3W
\triangle	F102	KB000690	FUSE	T2.5A 250)V(L)	\triangle	R138	VU981700	R.MTL.PLAT	0.22Ω+0.22	2 3W
<u>^</u>	F103	KB001660	FUSE	T1.60A 25	0V(RT)	\triangle	R145	HL314100	R.MTL.OXD	10Ω	1W
Æ	FR101	VK188400		330Ω	1/4W	<u>^</u>	R146	HL314100	R.MTL.OXD	10Ω	1W
\triangle	FR102	VK188400		330Ω	1/4W		R151	HV454100			1/4W
	FR103	VK189000		1ΚΩ	1/4W		R152	HV454100			1/4W
	1			1ΚΩ	1/4W		R159		R.MTL.OXD		1W
	JK101		JACK.PHONE	JY-6317-02	2-030GD		R160		R.MTL.OXD		1W
À	JK102		OUTLET.AC	2P(URT)		\triangle	R163		R.MTL.OXD		1W
\triangle	JK102		OUTLET.AC	2P(L)		\triangle	R171		R.MTL.OXD		1W
	L103	VP575600		1.5uH		٨	R173	HV456100			1/4W
	L104	VP575600		1.5uH	_	\triangle	R177	HV453100			1/4W
Â	Q101	VP883000		2SA893A I		\triangle	R178	HV454100			1/4W
Â	Q102	VP883000		2SA893A I			R179	HV457100			1/4W
\triangle	Q103	VP883000	IH	2SA893A I	D,E		R189		R,MTL.OXD	680Ω	1W
	* New I	rans					* New I	-ลเร			

MAIN P.C.B. & OPERATION P.C.B.

	Schm Ref.	PART NO		Description
	R196	HV455100	R.CAR.FP	100Ω 1/4W
\	RY101		1	100Ω 1/4W DH24D2-OT/M2
/	RY102	1	1	
7	RY102			DC LK1AF-12V(UL)
7	SW101		I .	DC G5P-1(RT)
7	1		1	PBS-YM-001
	SW102	1		1 ()
7	SW103	1	1	SL13B-022-AMC1
7	T101	XQ485B00		1 \ ' /
7	T101	XQ486B00		\ /
7	T101	XT331A00		\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
7	TE101	VC313700	1	8P(URT)
7	TE101	VU819700		8P(L)
		VJ828000	PIN	IMSA-6024-03E
	1	BB071360		8.3x13
		VR264300	1	
		VP753100	HEAT.SINK	IC-1625-MML
		Ei330166	SCR.BND.HD	3x16 FCRM3-BL
		VY834500	SUPRT	(RTL)
*		VY884900	P.C.B.	OPERATION(U)
*		VY885000	P.C.B.	OPERATION(RT)
*		VY885100	P.C.B.	OPERATION(L)
	CB301	Vi878800	CN.BS.PIN	10P
*	CB302	VK026200	CN.BS.PIN	3P
	CB303	VU282900	CN	29P
	CB304	VQ044100	CN.BS.PIN	5P
	CB305	VQ046900	CN.BS.PIN	5P
	CB306	VQ963400	CN.BS.PIN	13P
	CB308	Vi879200	CN.BS.PIN	14P
	CB309	Vi878400	CN.BS.PIN	6P
	CB311	Vi878000	CN.BS.PIN	2P
	CB312	Vi878000	CN.BS.PIN	2P
	C301	VF466800	C.CE.TUBLR	100pF 50V
	C302	VF466800	C.CE.TUBLR	100pF 50V
	C303	VJ839100	C.EL	1uF 50V
	C304	VJ836900	C.EL	10uF 16V
i	C305	VJ837200	C.EL	47uF 16V
	C306	VF637900	C.EL	1000uF 10V
	C307	FG251220	C.CE	22pF 50V
	C308		C.EL	10uF 16V
ĺ	ł _ I	1	C.EL	1000uF 10V
	I I	ľ	C.EL	10uF 16V
			C.EL	47000uF 5.5V
			C.CE.TUBLR	0.1uF 50V
ļ			C.EL	1uF 50V
			C.EL	330uF 16V
		1		0.1uF 50V
			j.	0.1uF 50V
		1	1	470uF 16V
	1		1	1000pF 50V
- 1				0.01uF 16V
Ľ	* New P		O.OL. TOBER	0.01ul 10V

Schm	PART NO		Description	
Ref.			· · · · · · · · · · · · · · · · · · ·	
C320	VF467300	1		16V
C321	VH053100			50V
C322	UM417100		10uF	50V
C323	VG278400	1		50V
C324	VG279400			16V
C325	VG278100		1 '	50V
C326	UM416470		4.7uF	50V
C327	UM416470		4.7uF	50V
C328	VG278100		1 '	50V
C329	VG279400		1	16V
C330	VG278400			50V
C331	UM417100	1	10uF	50V
C332	UM417100		10uF	50V
C333	UM417100		10uF	50V
C334	UM417100	1	10uF	50V
C335	UM417100		10uF	50V
C336	UA652220		220pF	50V
C337	UA652220	1	220pF	50V
C338	UA652100		100pF	50V
C339	VJ839000	C.EL	0.47uF	50V
C340	UM417100		10uF	50V
C341	UA652100	C.MYLAR	100pF	50V
C342	UM416470		4.7uF	50V
C343	UM416470	- · · · · ·	4.7uF	50V
C344	UM417100		10uF	50V
C345	UA652100	C.MYLAR	100pF	50V
C346	UA652100	C.MYLAR	100pF	50V
C347	VJ839000	C.EL	0.47uF	50V
C348	UM407220	C.EL	22uF	25V
C349	UA655120	C.MYLAR	0.12uF	50V
C350	UA654330	C.MYLAR	0.033uF	50V
C351	UA654330	C.MYLAR	0.033uF	50V
C352	UA655120	C.MYLAR	0.12uF	50V
C353	UM407220	C.EL	22uF	25V
C355	VH053100	C.CE.TUBLR	0.1uF	50V
C356	VH053100	C.CE.TUBLR	0.1uF	50V
C357	VH053100	C.CE.TUBLR	0.1uF	50V
D301	VM974600	DIODE.ZENR	HZS7A2TI	I
D302	VM974200	DIODE.ZENR	HZS5C2T	
D303	VD631600	DIODE		76,HSS104
D304	VD631600	DIODE		76,HSS104
D305	VD631600	DIODE		76,HSS104
D306	VD631600	DIODE		76,HSS104
D307	VD631600	DIODE		76,HSS104
D308	VS132300	LED(re)		CT31(RTL)
D310	VM974100	DIODE.ZENR	HZS5B2TI	
D311	VD631600	DIODE		76,HSS104
D312	VD631600	DIODE		76,HSS104
D313	I	DIODE		76,HSS104
D314	1		1SS133,17	6,HSS104
D315	1			76,HSS104
D316			188133,17	'6,HSS104
D317	VD631600	DIODE	188133,17	'6,HSS104

^{*} New Parts

OPERATION P.C.B. & TUNER P.C.B.

	Schm Ref.	PART NO.	D	escription		Schm Ref.	PART I
	D318	VD631600	DIODE	1SS133,176,HSS104		SW323	VG392
	D319	VD631600	DIODE	1SS133,176,HSS104		SW324	VG392
	D320	VM974300	DIODE.ZENR	HZS6A2TD 6.0V		SW325	VG392
	G301	VR463400	TERM.GND	D3.5 TP00385		SW326	VG392
	IC301	XH436A00	IC	LA7956		SW327	VG392
*	IC302	XT648A00	IC	M38179M6-381FP		SW328	VG392
	IC303	XM356A00	IC .	NJM2068LD		SW329	VG392
	IC304	XM356A00	IC	NJM2068LD		SW330	VG392
*	JK301	VZ087600	JACK.PHONE	LGR6517-1703		SW331	VG392
*	JK302	VZ087600	JACK.PHONE	LGR6517-1703		SW332	VG392
	PJ301	VR110100	JACK.PIN	2P		SW333	VG392
	PJ302	VR110100	JACK.PIN	2P		SW334	VG392
	Q301	iC174020	TR	2SC1740S R,S		SW335	VG392
	Q302	iA093320	TR	2SA933S Q,R		SW336	VG392
	Q303	iA101521	TR	2SA1015 Y		SW337	VG392
	Q304	iC1815C0	TR	2SC1815 Y		U301	VU591
	Q305	iC174020	TR	2SC1740S R,S	*	V301	VV4853
	Q306	iC174020	TR	2SC1740S R,S(RTL)	*	VR301	VV8872
	Q307	VD678500	TR.DGT	DTA114ES		VR302	VZ517
	Q308	VG722000	TR.DGT	DTC144ES	*	VR303	VV8872
	Q309	VG722000	TR.DGT	DTC144ES		VR304	VZ517
	Q310	VG722000	TR.DGT	DTC144ES		VR305	VP7418
	Q313	VD678500	TR.DGT	DTA114ES		VR306	VP7419
	Q314	VD678500	TR.DGT	DTA114ES		VR309	VP7420
	Q315	VK432900	TR	2SD1915F S,T		XL301	VR891
	Q316	VK432900	TR	2SD1915F S,T			VJ8280
	R334	HV454470	R.CAR.FP	47Ω 1/4W			VQ859
	R369	HV455100	R.CAR.FP	100Ω 1/4W			VV4999
	R370	HV455100	R.CAR.FP	100Ω 1/4W	*		VZ1806
	R379	HV455100	R.CAR.FP	100Ω 1/4W			
	R386	HV455100	R.CAR.FP	100Ω 1/4W			
	SW301	VG392900	SW.TACT	SKHVAA			
	SW302	VG392900	SW.TACT	SKHVAA			VR341
	SW303	VG392900	SW.TACT	SKHVAA			VR3419
	SW304	VG392900	SW.TACT	SKHVAA			VR3420
	SW305	VG392900	SW.TACT	SKHVAA		CB1	VR428
	SW306	VG392900	SW.TACT	SKHVAA		CB2	VR4287
		VG392900	SW.TACT	SKHVAA		CB4	VQ961
	SW308	VG392900	SW.TACT	SKHVAA		C1	UJ6383
	SW309	VG392900	SW.TACT	SKHVAA	,	C2	VG280
	SW310	VG392900	SW.TACT	SKHVAA	*	C3	VJ5990
	SW311	VG392900	SW.TACT	SKHVAA		C4	VJ8369
	SW312	VG392900	SW.TACT	SKHVAA		C5	VF4673
	SW313	VG392900	SW.TACT	SKHVAA		C6	VF9648
	SW314	VG392900	SW.TACT	SKHVAA		C7	VJ8391
	SW315	VG392900	SW.TACT	SKHVAA		C8	VF4673
	SW316	VG392900	SW.TACT	SKHVAA		C9	VF4673
	SW317	VG392900	SW.TACT	SKHVAA		C10	VF4673
	SW318	VG392900	SW.TACT	SKHVAA		C11	VF4670
	SW319	VG392900	SW.TACT	SKHVAA		C12	VJ8369
		VG392900	SW.TACT	SKHVAA		C13	VJ8369
	SW321	VG392900	SW.TACT	SKHVAA		C14	VF4670
		VG392900	SW.TACT	SKHVAA		C15	VF4670
	* New I	Parts				* New	Parts

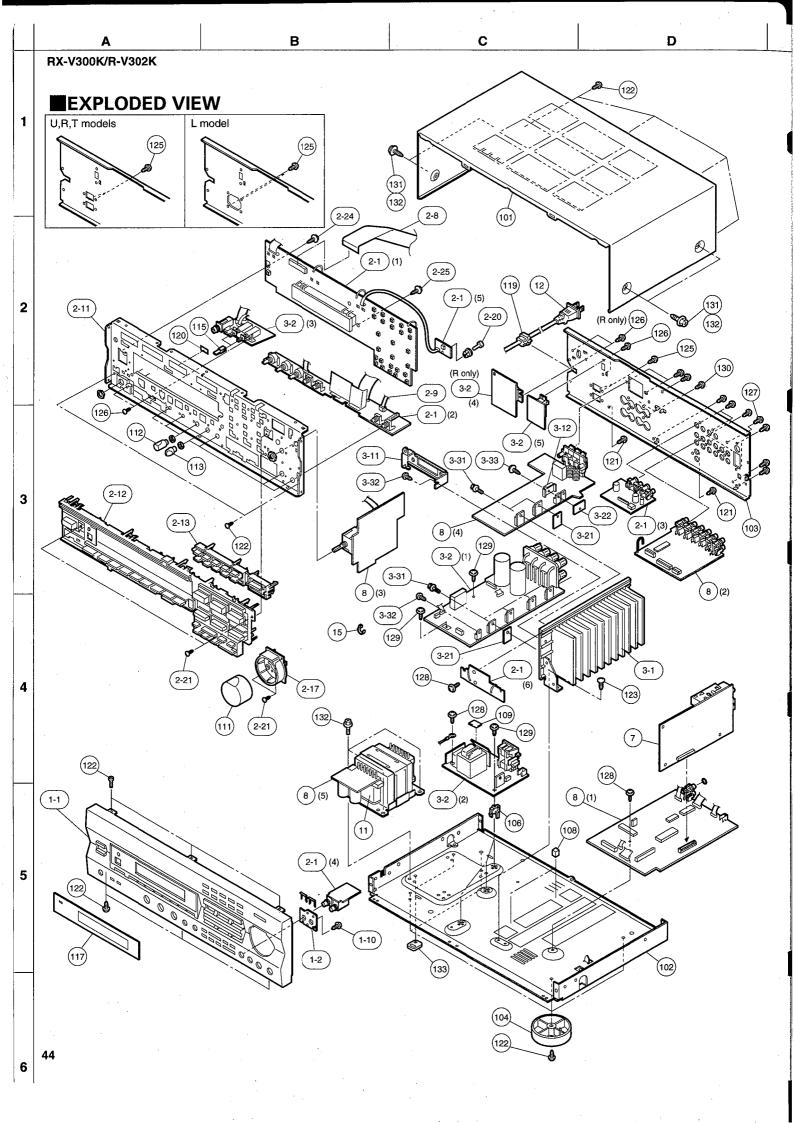
	Schm Ref.	PART NO.	D	escription
		VG392900	SW.TACT	SKHVAA
		VG392900		SKHVAA
		VG392900	· · · · · · · · · · · · · · · · · · ·	SKHVAA
Ì		VG392900		SKHVAA
		VG392900	1	SKHVAA
		VG392900		SKHVAA
		VG392900		SKHVAA
		VG392900		SKHVAA
		VG392900	SW.TACT	SKHVAA
			SW.TACT	SKHVAA
		VG392900		SKHVAA
	SW337			SKHVAA
٠	U301	VU591000	L.DTCT	GP1U271X
	V301	VV485300		13-BT-148GK
			VR	Α10ΚΩ
		VZ517100	VR	Β50ΚΩ
:		VV887200	VR	Α10ΚΩ
	VR304	VZ517100	VR	B50K Ω
	VR305		VR	Β20ΚΩ
	VR306	VP741900		G25KΩ
	VR309	VP742000	VR	MN100KΩ
	XL301	VR891500	RSNR.CE	6.30MHz
		VJ828000	PIN	IMSA-6024-03E
		VQ859800	SHEET.FL	
			SPACER	FL-T7.5
		VZ180600	PLATE	
		·		
ı				
		VEDATORA	nen	TUNEFOUN
		VR341800		TUNER(U)
		VR341900 VR342000		TUNER(RT)
	CD4		CN.BS.PIN	TUNER(L)
	CB1	VR428700	1	2P
	CB2	VR428700 VQ961800	CN.BS.PIN CN.BS.PIN	2P 15P
	CB4 C1	UJ638330	C.EL	330uF 16V
	C2	VG280100	C.CE.TUBLR	0.022uF 25V
	C3	VG280100 VJ599000	C.CE.TUBLR	0.022uF 25V 0.047uF 16V
	C4	VJ836900	C.EL	10uF 16V
	C5	VF467300	C.CE.TUBLR	0.01uF 16V
	C6	VF964800	C.EL.	100uF 16V
	C7	VF964600 VJ839100	C.EL C.EL	
		VF467300	C.CE.TUBLR	1uF 50V 0.01uF 16V
	C8 C9	VF467300 VF467300	C.CE.TUBLR	0.01uF 16V
	l l			
	C10	VF467300	C.CE.TUBLR	0.01uF 16V
	C11	VF467000	C.CE.TUBLR	1000pF 50V
	C12	VJ836900	C.EL	10uF 16V
	C13	VJ836900	C.EL	10uF 16V
	C14	VF467000	C.CE.TUBLR	1000pF 50V
Ĺ	C15 × New	VF467000	C.CE.TUBLR	1000pF 50V

TUNER P.C.B

Schm Ref.	PART NO.	Description			
C16	VF466700	C.CE.TUBLR	47pF	50V	
C17	VF964800	C.EL	100uF	16V	
C18	UA655100	C.MYLAR	0.1uF	50V	
C19	VA761200	C.CE	33pF	50V	
C20	VJ836900	C.EL	10uF	16V	
C21	VF466800	C.CE.TUBLR	100pF	50V	
C22	VJ839200	C.EL	2.2uF	50V	
C23	VF467300	C.CE.TUBLR	0.01uF	16V	
C24	UM416470	C.EL	4.7uF	50V	
C25	UM216330	C.EL	3.3uF	50V	
C26	VJ836900	C.EL	10uF	16V	
C27	VF467300	C.CE.TUBLR	0.01uF	16V	
C28	VA761200	C.CE	33pF	50V	
C29	VJ839100	C.EL	1uF	50V	
C30	VJ839100	C.EL	1uF	50V	
C31	VJ836900	C.EL	10uF	16V	
C32	VJ839000	C.EL	0.47uF	50V	
C33	VJ839100	C.EL	1uF	50V	
C34	UA654470	C.MYLAR	0.047uF	50V	
C35	VD916400	C.EL	2.2uF	50V	
C36	UA652470	C.MYLAR	470pF	50V(L)	
C36	UA652680	C.MYLAR	680pF	50V(URT)	
C37	UA652470	C.MYLAR	470pF	50V(L)	
C37	UA652680	C.MYLAR	680pF	50V(URT)	
C38	VF466900	C.CE.TUBLR	470pF	50V	
C39	VJ836900	C.EL	10uF	16V	
C40	UM216330	C.EL	3.3uF	50V	
C41	UA653390	C.MYLAR	3900pF	50V	
C42	VJ836900	C.EL	10uF	16V	
C43	UA653390	C.MYLAR	3900pF	50V	
C44	UM216330	C.EL	3.3uF	50V	
C49	VJ599000	C.CE.TUBLR	0.047uF	16V	
C68	VJ836900	C.EL	10uF	16V	
C69	VJ836900	C.EL	10uF	16V	
D1	VD631600	DIODE	188133,17	76,HSS104	
D2	VD631600	DIODE	188133,17	76,HSS104	
D3	VM974500	DIODE.ZENR	HZS6C2TI	O 6.0V	
Fi1	GG000560	FLTR.CE	SFE10.7M	S3GHY-A	
Fi2	GG000560	FLTR.CE	SFE10.7M	S3GHY-A	
Fi3	VC219000	FLTR.CE	SFZ450JL	3	
IC1	XB760A00	IC	LA1266		
IC2	XB818A00	IC	LM7000N		
IC3	iG158100	IC	LA3401		
L1	Vi546100	COIL	220uH	,	
L2	Vi546100	COIL	220uH		
L3	Vi546100	COIL	220uH		
PK1	VR242200	TUNER.PK	EXV-1729	6G1	
PK2	Vi027300	COILPAK.AM			
Q1	iC053540	TR	2SC535 A		
Q2	VC218900	TR	2SC3330 I	R,S,T	
Q3	VC218900	TR	2SC3330	R,S,T	
Q4	iC053540	TR	2SC535 A	,B,C	
Q5	VC218700	TR	2SA1317 I	R,S,T	

Schm	PART NO.		escription
Ref. Q6 Q7 SW1 T1 T2 T4 T5 TE1 TP1 TP2 VR1 VR2 XL1 XL2	VC218900 iC1815C0 VF541200 VC218600 GE100470 VQ138200 VQ138200 LA005800 VT969000 VT969000 VJ694000 VJ694000	TR TR SW.SLIDE COIL.DT.FM COIL.IF.AM FLTR.LC FLTR.LC TERM.ANT PIN.TEST VR.TRIM VR.TRIM RSNR.CRYS	2SC3330 R,S,T 2SC1815 Y SSSF11(RT) 10.7MHz 450KHz 19KHz 19KHz YKD31-0215 IRS-2049 IRS-2049 B47KΩ B47KΩ 7.2MHz 18.95KHz 8.3x13 ANT.
			·

^{*} New Parts



MECHANICAL PARTS

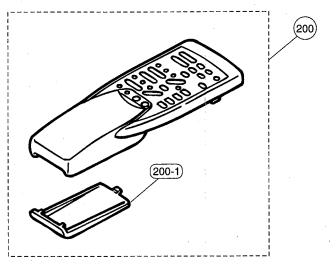
	Ref. No.	PART NO.	Description	Remarks	Markets	
*	1- 1	VV139100	FRONT PANEL		RX-V300K BL	
*	1-1		FRONT PANEL		R-V302K GL	
*	1- 1		FRONT PANEL		R-V302K BL	
*	1-2		BRACKET, VR			
	1-10	EP600290	I -	3x6 ZMC2-Y		
*	2- 1	VY884900		OPERATION		(U)
*	2- 1	VY885000		OPERATION		(RT)
*	2- 1	Į.	P.C.B. ASS'Y	OPERATION		(L)
*	2-8		FLEXIBLE FLAT CABLE	29P 450mm		
*	2-9		S FLEXIBLE FLAT CABLE C&C	5P 120mm	· ·	
*	2-11	1	SUB CHASSIS	130		
•	2-12	1	BUTTON CASE	100	BL	
*	2-12		BUTTON CASE		GL	
•	2-13		BUTTON, DSP		BL	
*	2-13	I	BUTTON, DSP		GL	
•	2-17		ESCUTCHEON, VOL		BL	
	2-17	VZ031500	•		GL	
	2-20		PUSH RIVET	P3545-B		
	2-21		BIND HEAD B-TITE SCREW	3x8 FCRM3-BL		
	2-24		PW HEAD B-TITE SCREW	3x8-8 MFC2		
	2-25		BIND HEAD P-TITE SCREW	3x8 ZMC2-BL		
	3- 1	1	HEAT SINK ASS'Y	DAG EMIGE BE	٠	
*	3-2		P.C.B. ASS'Y	MAIN	•	(U)
*	3-2		P.C.B. ASS'Y	MAIN		(RT)
*	3-2		P.C.B. ASS'Y	MAIN		(L)
•	3-11		SUPPORT, PCB	1707 (11 4		(-/
	3-12		SUPPORT, TR			
	3-12	i I	RADIATION SHEET	19x24		
	3-22	ľ	RADIATION SHEET	TOXET		
	3-31		SCREW, TRANSISTOR	3x15 SP FCM3		
	3-32		BIND HEAD B-TITE SCREW	3x8 FCRM3-BL		
	3-33		PW HEAD B-TITE SCREW	3x15-8 MFC2		
	7	1	P.C.B. ASS'Y	TUNER		(U)
	7	1	P.C.B. ASS'Y	TUNER		(RT)
	7		P.C.B. ASS'Y	TUNER		(L)
*	8		P.C.B. ASS'Y	INPUT		(-)
<u>*</u>	11		POWER TRANSFORMER	"" 01	·	(U)
	11		POWER TRANSFORMER	·		(RT)
* *	11		POWER TRANSFORMER	, ' -		(L)
<u> </u>	12		POWER CORD ASS'Y			(E)
<u> </u>	12		POWER CORD ASS'Y			(L)
<u> </u>	12		POWER CORD ASS'Y			(L) (U)
* * * * * *	12		POWER CORD ASS'Y	,		(T)
∠!\	15		BINDING TIE	CBTD001B		('')
	101		TOP COVER	ODIDOOID	BL	
*	101		TOP COVER		GL	
ጥ	102	VQ794000				[· .
*	102		REAR PANEL	RX-V300K		(U)
*	103	l :	REAR PANEL	RX-V300K		(RT)
*	103		REAR PANEL	RX-V300K		(L)
*	103	1	REAR PANEL	R-V302K		(E) (RT)
ক	103	V\$025000		D60xH21	RX-V300K	[(''')
		VS025000 VV544600		D60xH21	R-V302K	
	104	V V D446UU	LEG.	ו אסטגרוב ו	11-13021	

^{*} New Parts

	Ref. No.	PART NO.	Description			Remarks	Markets
	106	VR264400	SPACER	H8			
	108	VQ366100	DAMPER, PCB				
	109	VZ319700	STOPPER	SCREW			
	111	VV148800	KNOB	D40		BL	1
*	111	VV149000	KNOB	D40		GL	
*	112	VV310900	KNOB	D14		GL	
	112	VV311000	KNOB	D14		BL	
	113	VR308400	KNOB, VR	D10		BL	
*	113	VV795300	KNOB, VR			GL	
	115	VV123500	BUTTON, 3/8			BL	
*	115	VV311600	BUTTON, 3/8			GL	
	117	VV139900	SHEET, WINDOW				(U)
	117	VV140000	SHEET, WINDOW				(RLT)
	119	VN158600	CORD STOPPER	No.2104			
	120	VV259300	SPACER				
	121	EN301010	BIND HEAD BONDING TAP SCREW	-3x8	FCRM3-BL		
	122	E i 330086	BIND HEAD B-TITE SCREW	3x8	FCRM3-BL		1
	123	E i 030046	BIND HEAD TAPPING SCREW	3x4	ZMC2-Y		
	125	E i 030086	BIND HEAD B-TITE SCREW	3x8	ZMC2-Y		
ł	126	ED330066	BIND HEAD SCREW	3x6	FCRM3-BL		
-	127	VS997700	BIND HEAD S-TITE SCREW	3x10	MFNI33		
	128	VT669300	PW HEAD B-TITE SCREW	3x8-8	MFC2		
1	129	VT669400	PW HEAD B-TITE SCREW	3x15-8	MFC2		
	130	VY731200	BONDING HEAD TAPPING SCREW	3x10	MFNI33		
	131	EX601150	BW HEAD S-TITE SCREW	4x8-10	FNM3-BL		.]
	132		PW HEAD S-TITE SCREW	4x8-10	FCRM3-BL		[
	133	VY731400	DAMPER	HOLE			
			ACCESSORIES				
*	200	VV486500	REMOTE CONTROL TRANSMITTER				
	200-1	CX679050	LID	74x34BL	ALPS		
		VQ147100	ANTENNA, FM	1P 1.4m			
		VR248500	ANTENNA, AM LOOP	1P 1.0m			
		VT948000	ANTENNA ADAPTER				(U)
			BATTERY, MANGANESE	SUM-3,A	A,R06	,	

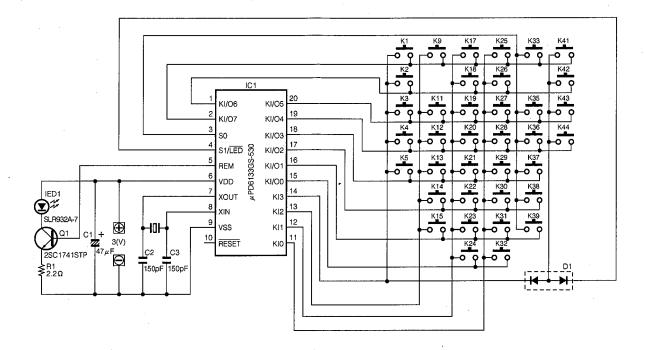
^{*} New Parts

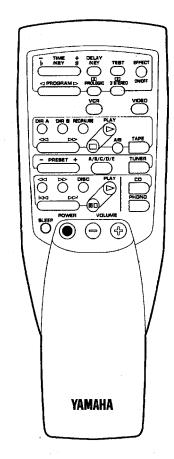
EXPLODED VIEW (Remote Control Transmitter)



RX-V300K/R-V302K

TREMOTE CONTROL TRANSMITTER SCHEMATIC DIAGRAM





No.	FUNCTION	(BIN)	(HEX)
1	EFFECT ON/OFF	7A	56
2	PROGRAM ✓	7A	59
3	PROGRAM ⊳	7A	58
4	DOPROLOGIC	7A	88
5	3 STEREO	7A	89
Ť		7A	8A
\vdash		7A	55
		7A	13
9	VCR	7A	OF
		7A	54
11	VIDEO	7A	17
12	DIR A	7A	07
13	DIR B	7A	40
14	REC/PAUSE	7A	04
15	PLAY (TAPE)	7A	.00
		7A	19
17	√ √ (TAPE)	7A	01
18	DD (TAPE)	7A	02
19	☐ (TAPE)	7A	03
20	(DECK) A/B	7A	06
21	TAPE	7A	18
22	PRESET -	7A	11
23	PRESET +	7A	10
24	A/B/C/D/E	. 7A	12
25	TUNER	7A	16
26	√ √	7A	0D
27		7A	C
28	DISC	7A	4F
29	PLAY (CD)	7A	08
30	CD	7A	15
31	₩ (CD)	7A	0B
32	▶ (CD)	7A	0A
33	00/0	7A	09
		7A	0E
35	PHONO	7A	14
36	SLEEP	7A_	57
37	POWER	7A	1F
38	(MASTER) VOLUME -	7A_	1B
39	(MASTER) VOLUME +	7A	_1A
		7A	1C
41	TIME/KEY	7A	53
42	TIME/KEY #	7A	52
43	DELAY/KEY	7A	86
44	TEST	7A	85

Parts List for Carbon Resistors

Value	1/4W Type Part No.	1/6W Type Part No.	Value	1/4W Type Part No.	1/6W Type Part No.
1.0 Ω	нлз5 3100	HF85 3100	10 kΩ	HF45 7100	HF45 7100
1.8 Ω	ндз5 3180	*	11 kΩ	HF45 7110	HF45 7110
2.2 Ω	HJ35 3220	HF85 3220	12 kΩ	HJ35 7120	HF85 7120
3.3 Ω	HJ35 3330	HF85 3330	13 kΩ	HF45 7130	HF45 7130
4.7 Ω		HF85 3470	15 kΩ	HF45 7150	HF45 7150
7 - 5	HJ35 3560	HF85 3560	18 kΩ	HF45 7180	HF45 7180
10 Ω	HF45 4100	HF45 4100	22 kΩ	HF45 7220	HF45 7220
15 Ω	HJ35 4150	HF85 4150	24 kΩ	HF45 7240	HF45 7240
22 Ω	HF45 4220	HF45 4220	27 kΩ	HJ35 7270	HF85 7270
27Ω	HJ35 4270	HF85 4270	30 kΩ	HF45 7300	HF45 7300
33 Ω	HF45 4330	HF45 4330	33 kΩ	HF45 7330	HF45 7330
39 Ω	HJ35 4390	HF85 4390	36 kΩ	HF45 7360	HF45 7360
' 47 Ω	HF45 4470	HF45 4470	39 kΩ	HF45 7390	HF45 7390
56 Ω	HF45 4560	HF45 4560	47 kΩ	HF45 7470	HF45 7470
68 Ω	HF45 4680	HF45 4680	51 kΩ	HF45 7510	HF45 7510
75 Ω	HF45 4750	HF45 4750	56 kΩ	HF45 7560	HF45 7560
82 Ω	HF45 4730	HF45 4820	62 kΩ	HF45 7620	HF45 7620
91 Ω	HF45 4910	HF45 4910	68 kΩ	HF45 7680	HF45 7680
100 Ω	HF45 5100	HF45 5100	82 kΩ	HF45 7820	HF45 7820
110 Ω	нјз5 5110	HF85 5110	91 kΩ	HF45 7910	HF45 7910
120 Ω	HF45 5120	HF45 5120	100 kΩ	HF45 8100	HF45 8100
150 Ω	HF45 5150	HF45 5150	110 kΩ	HF45 8110	HF45 8110
160 Ω	HJ35 5160	*	120 kΩ	HF45 8120	HF45 8120
180 Ω	HF45 5180	HF45 5180	150 kΩ	HF45 8150	HF45 8150
200 Ω	HF45 5200	HF45 5200	180 kΩ	HF45 8180	HF45 8180
220 Ω	HF45 5220	HF45 5220	220 kΩ	низ 8220	HF85 8220
270 Ω	HF45 5270	HF45 5270	270 kΩ	HF45 8270	HF45 8270
330 Ω	HF45 5330	HF45 5330	300 kΩ	HF45 8300	HF45 8300
390 Ω	HF45 5390	HF45 5390	330 kΩ	HF45 8330	HF45 8330
430 Ω	HF45 5430	HF45 5430	390 kΩ	HJ35 8390	HF85 8390
470 Ω	HF45 5470	HF45 5470	470 kΩ	HF45 8470	HF45 8470
510 Ω	HF45 5510	HF45 5510	560 kΩ	HJ35 8560	HF85 8560
560 Ω	HF45 5560	HF45 5560	680 kΩ	HJ35 8680	HF85 8680
680 Ω	HF45 5680	HF45 5680	820 kΩ	HJ35 8820	HF85 8820
820 Ω	HF45 5820	HF45 5820	1.0 ΜΩ	HF45 9100	HF45 9100
910 Ω	HF45 5910	HF45 5910	1.0 MΩ	HJ35 9120	*
1.0 kΩ	HF45 6100	HF45 6100	1.5 MΩ	низь 9150	HF85 9150
1.0 kΩ 1.2 kΩ	HF45 6120	HF45 6120	1.8 MΩ	HJ35 9180	HF85 9180
				HJ35 9160 HJ35 9220	HF85 9160 HF85 9220
1.5 kΩ	HF45 6150 HF45 6180	HF45 6150 HF45 6180	2.2 MΩ 3.3 MΩ	HJ35 9220 HJ35 9330	HF85 9220 HF85 9330
1.8 kΩ 2.0 kΩ	HJ35 6200	HF85 6200	3.9 MΩ	HJ35 9390	*
	HF45 6220	HF45 6220	3.9 MΩ 4.7 MΩ	HJ35 9390	HF85 9470
2.2 kΩ 2.4 kΩ	HF45 6220 HJ35 6240	HF85 6240	4.7 IVIS2	FIJOD 74/U	⊓roo 347 U
2.4 kΩ 2.7 kΩ	HF45 6270	HF45 6270			
3.0 kΩ	HF45 6300	HF45 6300			4/8\N/ T
3.3 kΩ	HF45 6330	HF45 6330			1/4W Type HF45 () ()
				1/4W Type	1/6W Type
3.6 kΩ	HJ35 6360	HF85 6360		HJ35 ()()()	HF85 OOO
3.9 kΩ	HF45 6390	HF45 6390			,,,,,,
4.7 kΩ	HF45 6470	HF45 6470		← 10mm →	←5mm->
5.1 kΩ	HF45 6510	HF45 6510			
5.6 kΩ	HF45 6560	HF45 6560			
6.8 kΩ	HF45 6680	HF45 6680		- 1	
8.2 kΩ	HF45 6820	HF45 6820			
9.1 kΩ	HF45 6910	HF45 6910			

*: Not available