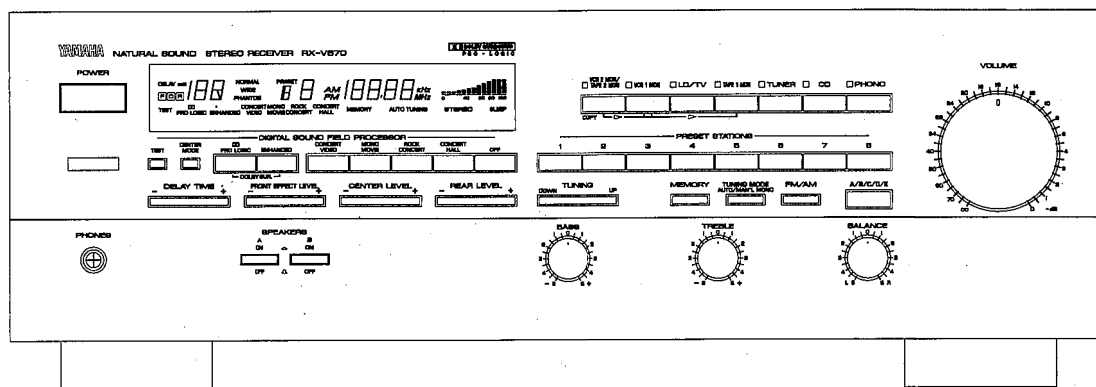
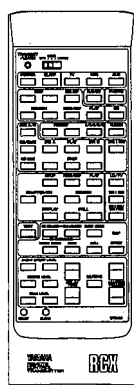


STEREO RECEIVER

RX-V670

SERVICE MANUAL

RX-V670



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 or 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 connect to this buss).

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

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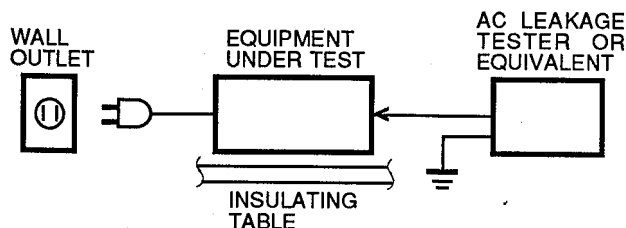
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YAMAHA
YAMAHA CORPORATION
P.O.Box 1, Hamamatsu, Japan
1.8K-006 Printed in Japan '93.1

■ TO SERVICE PERSONNEL

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



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.

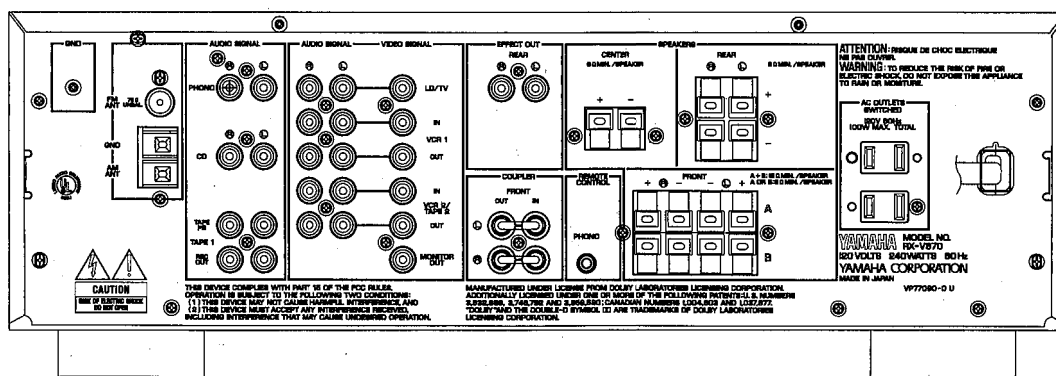
DO NOT PLACE SOLDER, ELECTRICAL/ELECTRONIC OR PLASTIC COMPONENTS IN YOUR MOUTH FOR ANY REASON WHATSOEVER!

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

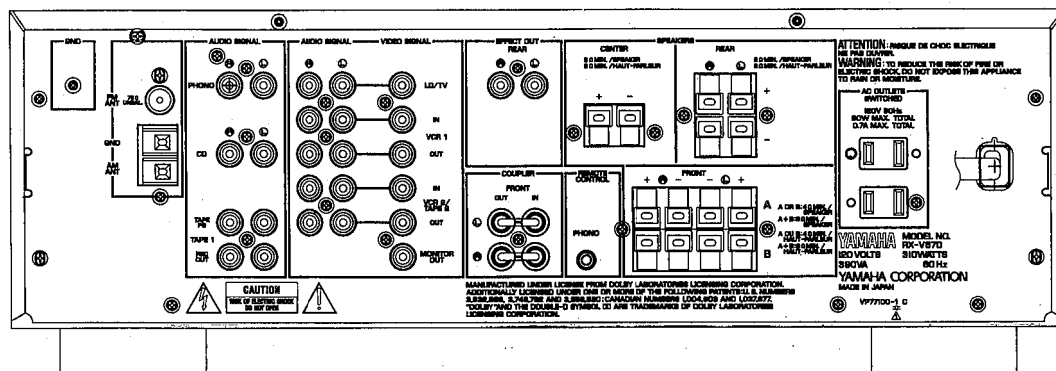
If you come in contact with solder or components located inside the enclosure of this product, wash your hands before handling food.

■ REAR PANELS

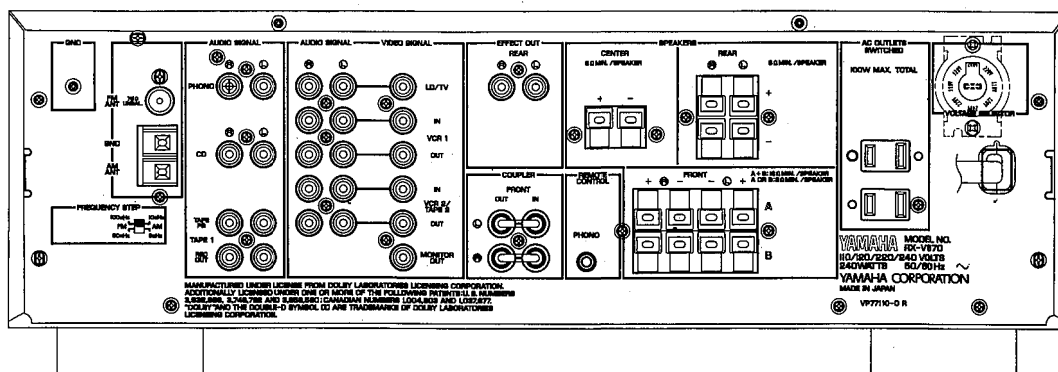
▼ U model



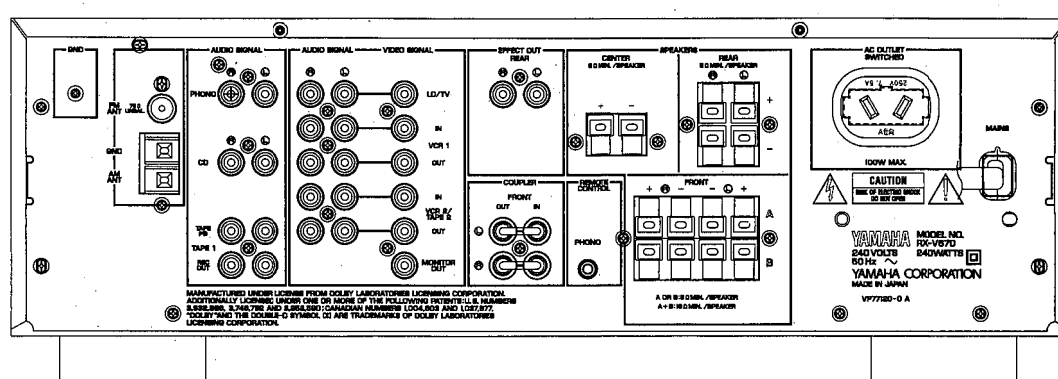
▼ C model



▼ R model



▼ A model



SPECIFICATIONS

AUDIO SECTION

Minimum RMS Output Power per Channel		
FRONT, 20Hz to 20kHz, 0.03% THD, 8Ω		70W
CENTER, 1kHz, 0.08% THD, 8Ω		70W
EFFECT, 1kHz, 0.3% THD, 8Ω		25W
Dynamic Power per Channel (IHF)		
8/6/4/2Ω		
U, C, R models	90/105/130/155W	
A model	85/100/125/150W	
Dynamic Headroom		
R, U, C models 8Ω/6Ω	1.09dB/1.18dB	
Input Sensitivity/Impedance		
PHONO MM	2.5mV/47kΩ	
CD etc	150mV/47kΩ	
MAIN IN	1V/47kΩ	
Maximum Input Signal Level (1kHz, 0.02% THD)		
PHONO MM	80mV	
Output Level/Impedance		
REC OUT	150mV/1kΩ	
PRE OUT	1V/3.3kΩ	
Headphone Jack Rated Output/Impedance		
0.01% THD, 1kHz, RL= 8Ω	0.5V/390Ω	
Frequency Response (20Hz to 20kHz)		
CD etc	±0.5dB	
MAIN IN	±0.5dB	
RIAA Equalization Deviation (20Hz to 20kHz)		
PHONO MM	±0.5dB	
Total Harmonic Distortion (20Hz to 20kHz)		
PHONO MM to REC OUT (1V)	0.01%	
CD etc to SP OUT (35W/8Ω)	0.015%	
MAIN IN to SP OUT (35W/8Ω)	0.015%	
Signal-to-Noise Ratio (IHF-A Network)		
PHONO MM (5mV Input Shorted)	86dB	
CD etc (Shorted)	95dB	
Residual Noise (IHF-A Network)		
	120μV	
Channel Separation (Vol. -30dB)		
PHONO MM (Input Shorted) 1kHz/10kHz	65dB/50dB	
CD etc (Input 5.1kΩ Terminated) 1kHz/10kHz	65dB/50dB	
Tone Control Characteristics		
BASS : Boost/cut	±10dB (20Hz)	
Turnover Frequency	350Hz	
TREBLE : Boost/cut	±10dB (20kHz)	
Turnover Frequency	3.5kHz	

VIDEO SECTION

Video Signal	
Input Level/Impedance	1Vp-p/75Ω
Output Level/Impedance	1Vp-p/75Ω

FM SECTION

Tuning Range	
U, C, R models	87.5 to 107.9MHz
A, R models	87.5 to 108.0MHz
50dB Quieting Sensitivity (IHF, 75Ω)	
Mono	1.55μV (15.1dBf)
Stereo	21μV (37.7dBf)
Usable Sensitivity (75Ω)	
(30dB S/N Quieting, 1kHz, 100% mod.)	0.8μV (9.3dBf)
Image Response Ratio	
	45dB
IF Response Ratio	
	80dB
Spurious Response Ratio	
	70dB
AM Suppression Ratio	
	55dB
Capture Ratio	
	1.5dB
Alternate Channel Selectivity	
	85dB
Signal-to-Noise Ratio (IHF)	
Mono/Stereo	81/76dB
Harmonic Distortion (1kHz)	
Mono/Stereo	0.1/0.2%
Frequency Response	
20Hz to 15kHz	0±1.5dB
Stereo Separation (1kHz)	
	50dB

AM SECTION

Tuning Range	
U, C, R models	530 to 1,710kHz
A, R models	531 to 1,611kHz
Usable Sensitivity	
	100μV/m
Selectivity	
	32dB
Signal-to-Noise Ratio	
	50dB
Image Response Ratio	
	40dB
Spurious Response Ratio	
	50dB
Harmonic Distortion (400Hz)	
	0.3%

AUDIO SECTION

Output Level/Impedance	
FM (30% mod., 1kHz)	700mV/3.8kΩ
AM (30% mod., 400Hz)	200mV/3.8kΩ

■ GENERAL

Power Supply

U, C models	AC 120V, 60Hz
A model	AC 240V, 50Hz
R model	AC 110/120/220/240V, 60/50Hz

Power Consumption

U model	240W
C model	390VA/310W
A, R models	240W

AC Outlets

Switched x 2	
U, R models	100W max. (Total)
C model	80W max. (Total)
Switched x 1	
A model	100W max.

Dimensions (W x H x D) 435 x 151.3 x 296.7mm
(17-1/8" x 5-15/16" x 11-11/16")

Weight 10.5 kg (23 lbs. 2 oz.)

Accessories AM loop antenna x 1
Indoor FM antenna x 1
Remote Control Transmitter x 1
Battery (size "AA", "R06") x 2

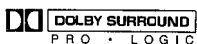
* Specifications subject to change Without notice.

U USA model

C Canadian model

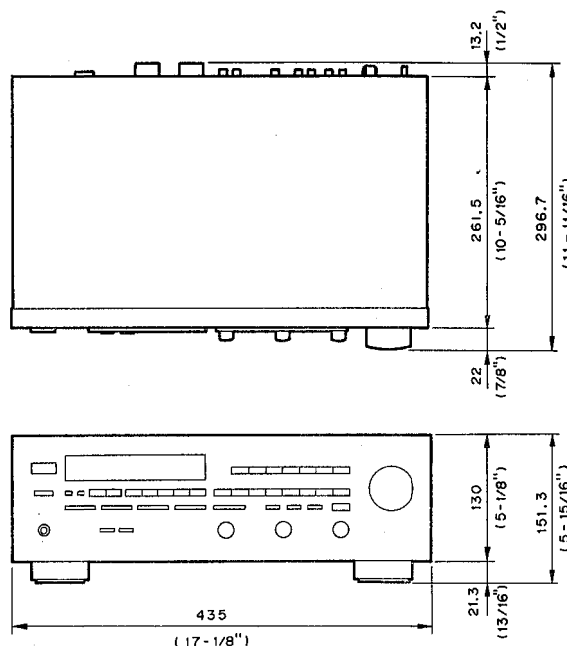
A Australian model

R General model



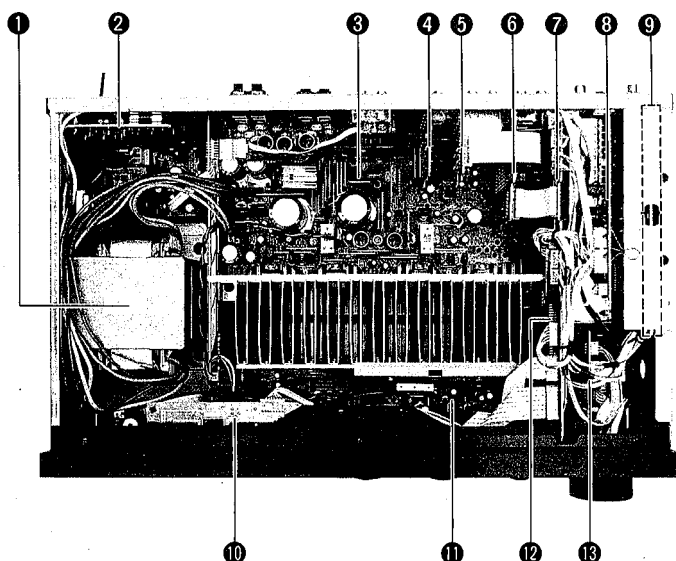
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● DIMENSIONS



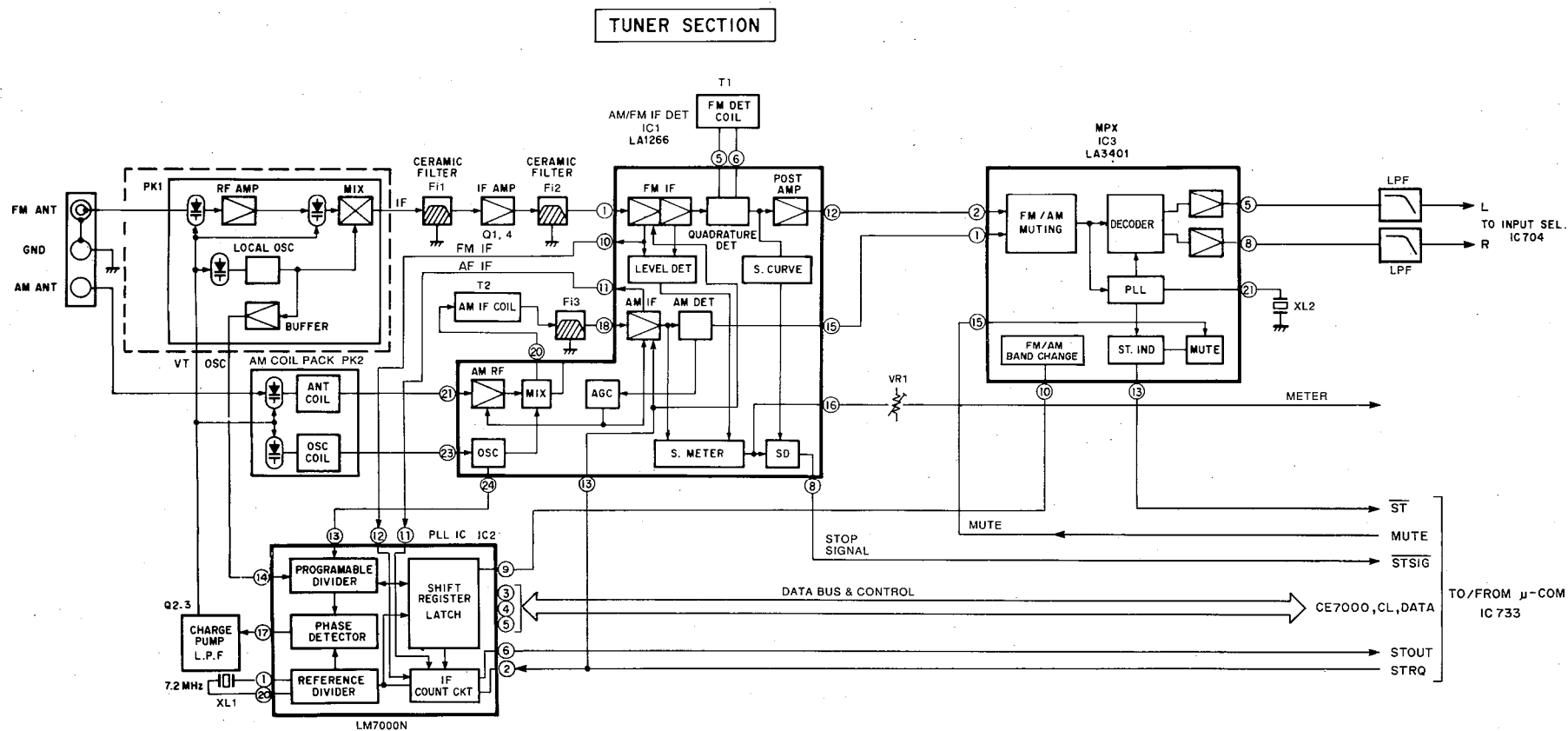
Units : mm (inch)

■ INTERNAL VIEW

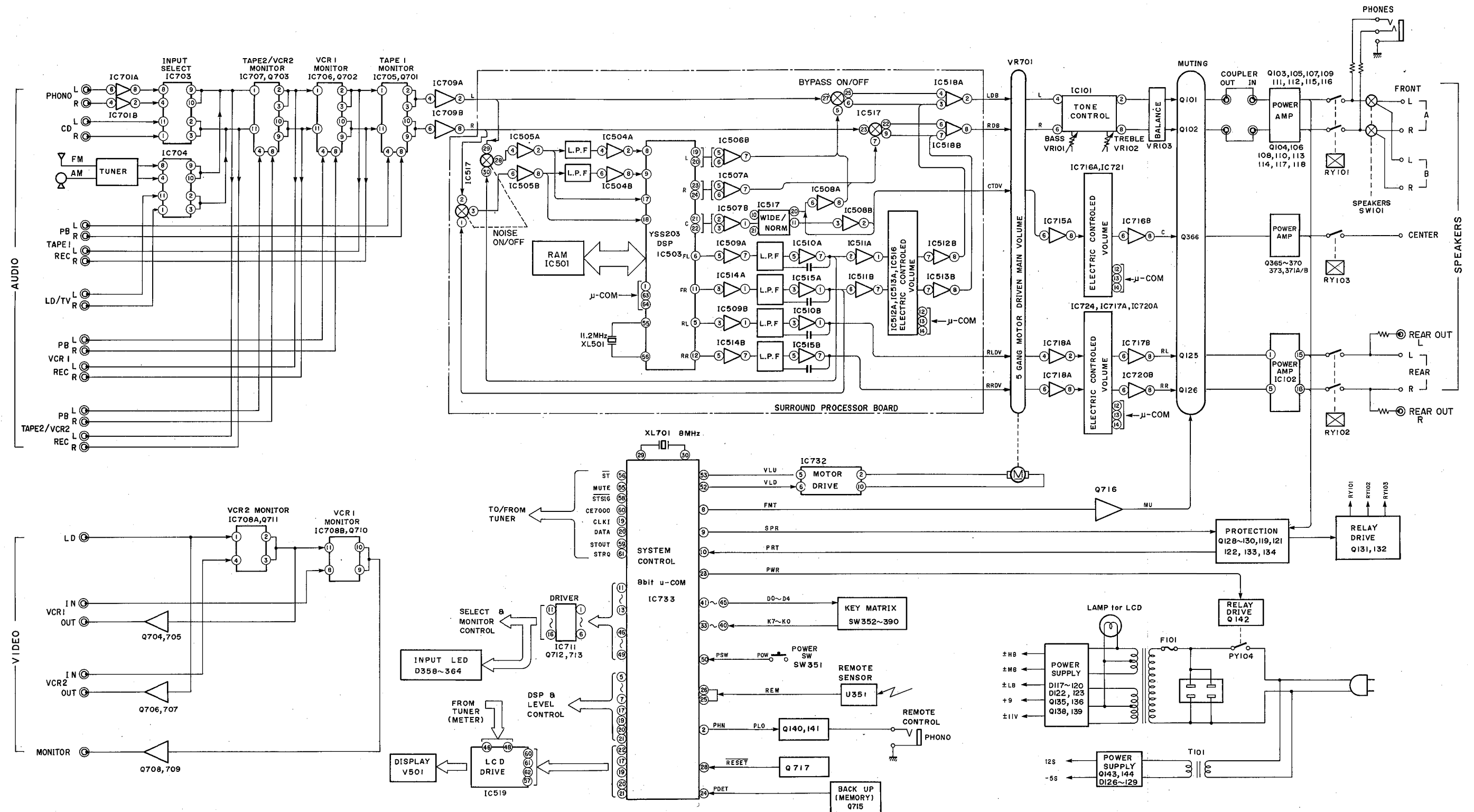


- ① POWER TRANSFORMER
- ② MAIN P.C.B. ASS'Y (2)
- ③ MAIN P.C.B. ASS'Y (1)
- ④ INPUT P.C.B. ASS'Y (4)
- ⑤ INPUT P.C.B. ASS'Y (3)
- ⑥ INPUT P.C.B. ASS'Y (2)
- ⑦ INPUT P.C.B. ASS'Y (1)
- ⑧ TUNER P.C.B. ASS'Y
- ⑨ DSP P.C.B. ASS'Y (1)
- ⑩ DSP P.C.B. ASS'Y (2)
- ⑪ OPERATION P.C.B. ASS'Y (2)
- ⑫ IC733 : 8 bit μ -COM
- ⑬ INPUT P.C.B. ASS'Y (5)

■ BLOCK DIAGRAM



■ BLOCK DIAGRAM



DISASSEMBLY PROCEDURES

(Remove parts in the order as numbered.)

1. Removal of Top Cover

Remove 7 screws (①) in Fig. 1.

2. Removal of Bottom Cover

Remove 10 screws (②) in Fig. 1.

3. Removal of Front Panel

a. Remove 4 knobs (BASS, TREBLE, BALANCE, VOLUME).

b. Remove 3 screws (③) in Fig. 1.

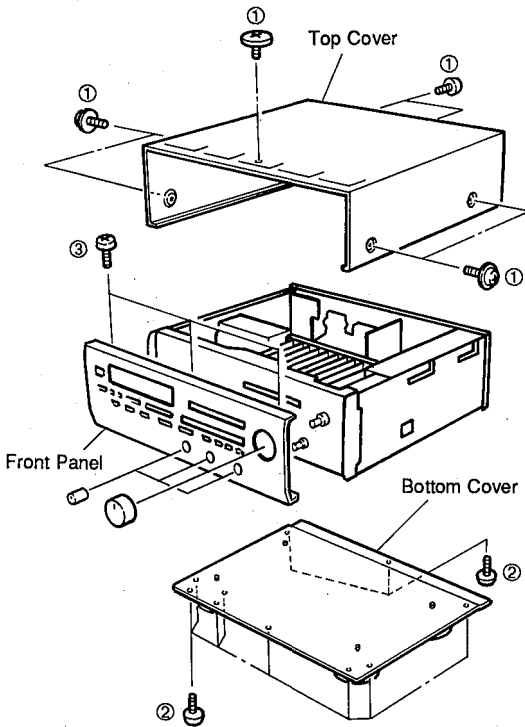
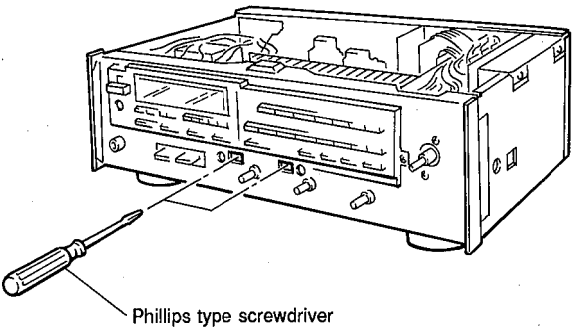


Fig. 1

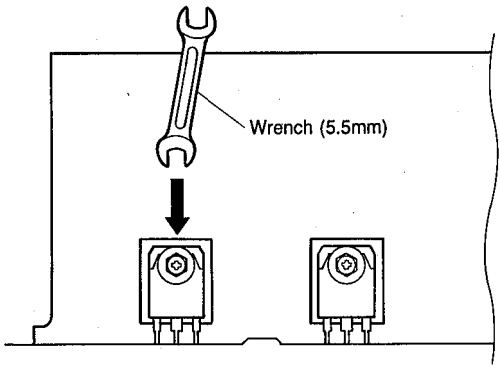
Removal of Power IC (IC 102)

- a. Remove the Front Panel.
- b. Insert the Phillips type (+) screwdriver into a hole at the upper left of the BASS and TREBLE controls on the front frame respectively and remove the IC fixing screw.



Removal of Power Transistor (Q115~Q118, 371A, 371B)

- a. Use a 5.5mm wrench or small size adjustable wrench.
- b. Using the above tool, remove the screw fixing the Power Transistor.

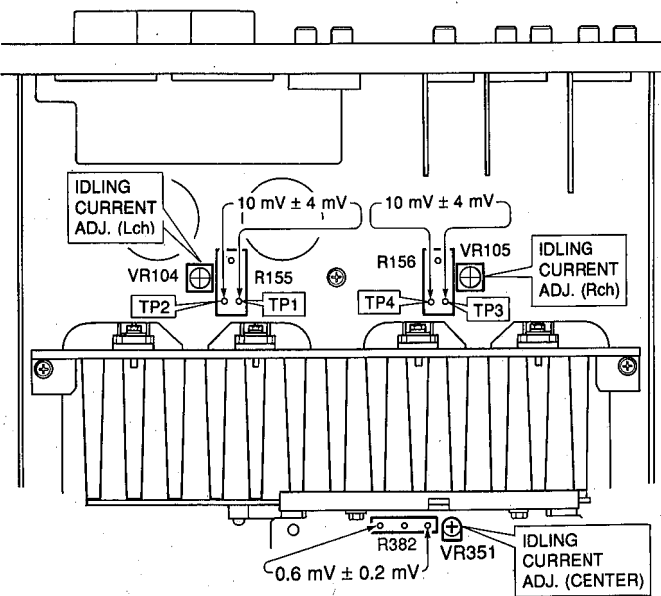


ADJUSTMENT IN POWER AMPLIFIER SECTION

IDLING CURRENT ADJUSTMENT

When replacing the power and drive transistors, adjust idling current. After the power has been turned on, age about 10 minutes in non loaded condition.

Test points		Adjustment point	Rating
FRONT Lch	Across the terminals of R155 (TP1—TP2)	VR104	10 mV±4 mV DC
FRONT Rch	Across the terminals of R156 (TP3—TP4)	VR105	10 mV±4 mV DC
CENTER	Between both terminals of R382	VR351	0.6 mV±0.2 mV DC

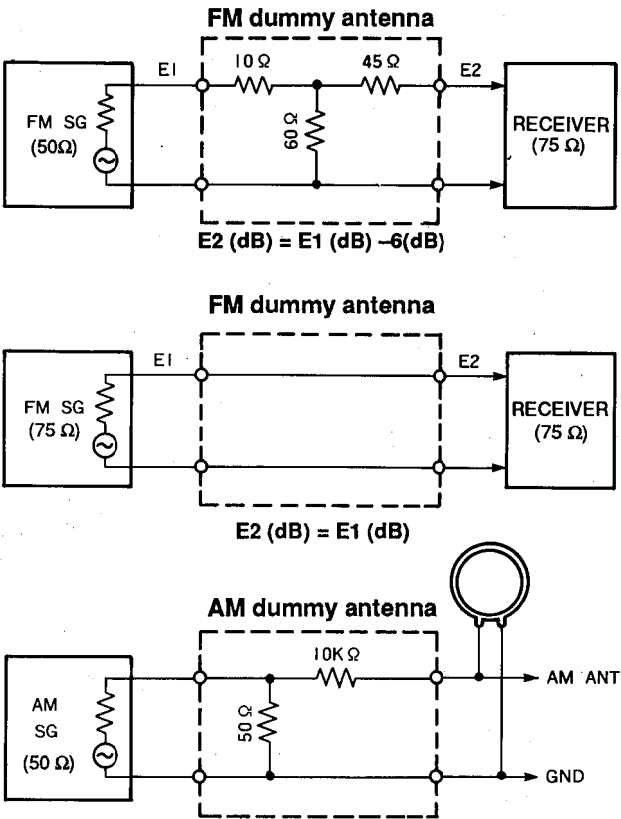


ADJUSTMENT IN TUNER SECTION

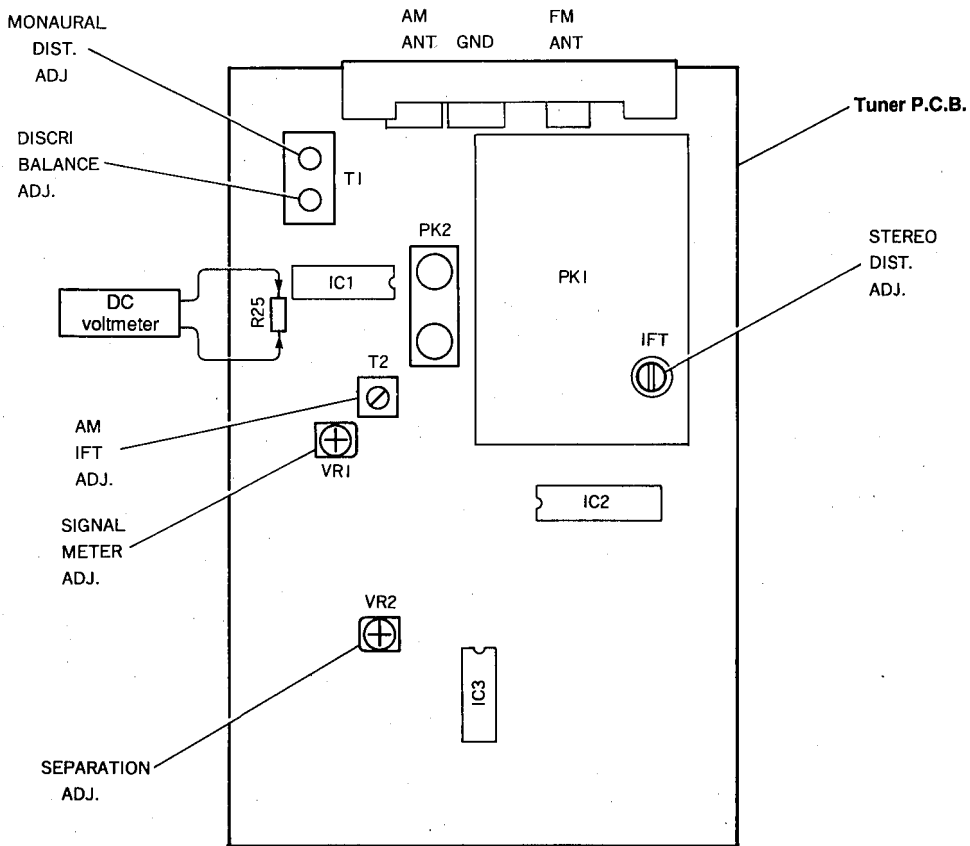
Measuring Instruments

- 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



Test point



FM Adjustment

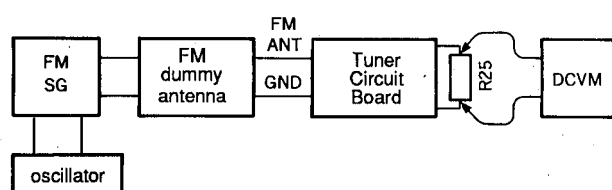
● Before Adjustment

- 1) For dB, $1\mu\text{V}=0\text{dB}\mu$ applies.
Example : $60\text{dB}\mu=1\text{mV}$
- 2) 100% modulation means that the frequency deviation is 75kHz.
- 3) Install the Matching Transformer and connect FM SG.
- 4) Set each switch at the following position unless otherwise specified.

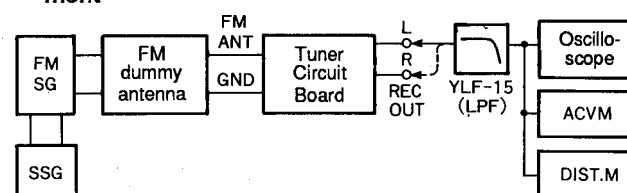
INPUT SELECTOR.....TUNER
TUNING MODEAUTO

● Connection diagram (Measuring instruments)

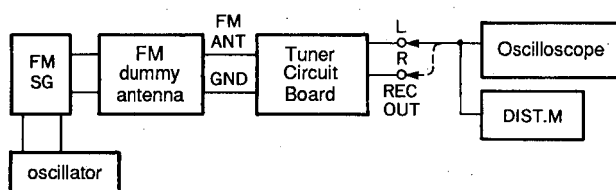
1) Discriminator balance adjustment



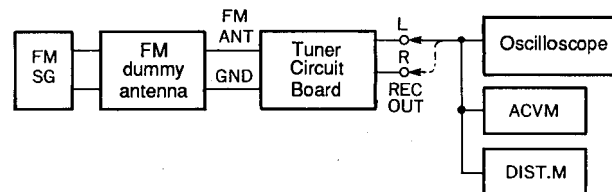
3) Stereo distortion adjustment/separation adjustment



2) Monaural distortion adjustment



4) Sensitivity Verification

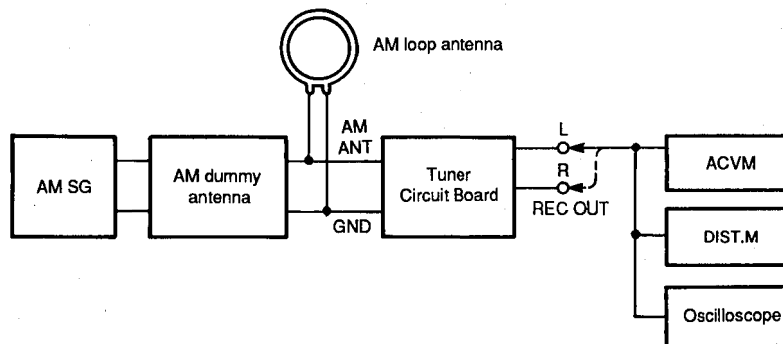


Step	Adjustment Item	Signal (ANT IN)	Reception frequency	Adjusted point	Test point	Rating
1	Rough adjustment of discriminator balance	FM ANT (75Ω) 98.1MHz 70dBμ MONO 100Hz 100% modulation	98.1MHz * (A-4)	T1 (IC side core)	Both ends of R25	DC 0V±100mV
2	Rough adjustment of monaural distortion	Same as Step 1.	98.1MHz * (A-4)	T1 (Antenna side core)	REC OUT L, R	Minimize the distortion.
3	Fine adjustment of discriminator balance	Same as Step 1.	98.1MHz * (A-4)	T1 (IC side core)	Both ends of R25	DC 0V±50mV
4	Fine adjustment of monaural 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 discriminator balance	Same as Step 1.	98.1MHz * (A-4)	T1 (IC side core)	Both ends of R25	DC 0V±50mV

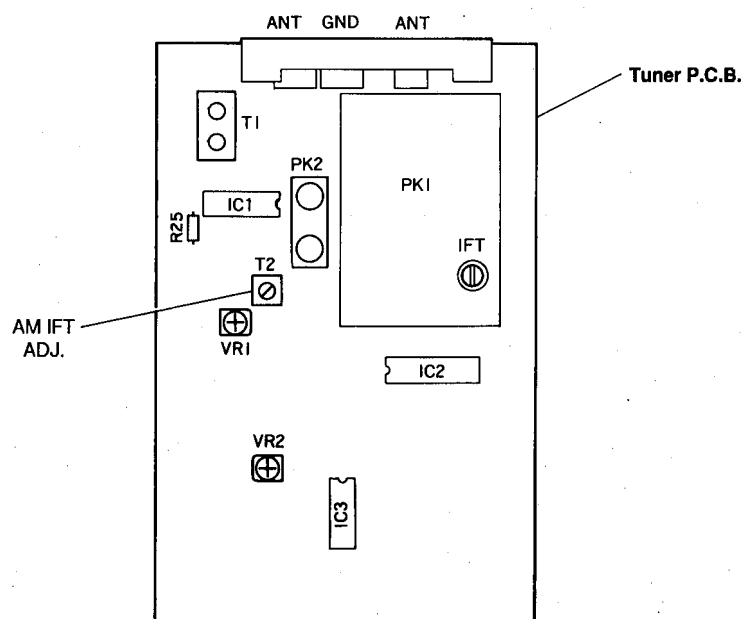
* : Execution of MAKER PRESET (Refer to TEST SIGNAL PROGRAM on pages 13 and 14.) will facilitate setting reception frequency for adjustment.

Step	Adjustment Item	Signal (ANT IN)	Reception frequency	Adjusted point	Test point	Rating
6	Stereo distortion	FM ANT (75Ω) 98.1MHz 70dBμ Stereo L or R 1kHz, 100% modulation	98.1MHz * (A-4) *Tuning mode should be AUTO.	Front end IFT	REC OUT L, R	Distortion should be minimized (1% or less) * STEREO indicator should light. * Note that over-turning IFT will reduce sensitivity.
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 sensitivity	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 terminal is 3dBμ (14.25dBf) or less.
9	Separation	FM ANT (75Ω) 98.1MHz 70dBμ Stereo L or R 1kHz, 100% modulation	98.1MHz * (A-4)	VR2	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
10	Signal meter	FM ANT (75Ω) 98.1MHz 45dBμ MONO 1kHz 30% modulation	98.1MHz * (A-4)	VR1		Adjust so that all signal meters light.
		-10dBμ or less				Check to ensure that signal meters turn OFF.
11	Verification of auto tuning	FM ANT (75Ω) 98.1MHz 23dBμ Stereo L or R 1kHz, 30% modulation	98.1MHz			- 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 TEST SIGNAL PROGRAM on pages 13 and 14.) will facilitate setting reception frequency for adjustment.

AM Adjustment (This should be done after FM adjustment.)
● Connection Diagram (Measuring Instruments)
1) Adjustment of sensitivity


Step	Adjustment item	Signal (ANT IN)	Reception frequency	Adjusted point	Test point	Rating
1	Adjustment of sensitivity	AM ANT 630kHz 50dB μ 400Hz, 30% modulation	630kHz * (B-1)	T2	REC OUT	Audio output should be maximized.
2	Verification of sensitivity	AM ANT 630kHz 1080kHz 1440kHz 400Hz, 30% modulation	630kHz * (B-1) 1080kHz * (B-2) 1440kHz * (B-3)		AM ANT	Distortion should be 10% or less at each frequency. Check to ensure that the voltage at the ANT terminal is 54dB μ or less.
3	Verification of signal meter	AM ANT 1080kHz 90dB μ	1080kHz * (B-2)			All signal meters should light.
		-10dB μ or less				All signal meters should turn OFF.
4	Verification of auto tuning	AM ANT 60dB μ	1080kHz * (B-2)			Auto reception should be available when the tuning key is moved UP and DOWN.



■ TEST SIGNAL PROGRAM

To facilitate inspection and measurement, a test signal program is programmed in this set.

CAUTION : Using a table as shown below, write down the content of the memory preset in the tuner before setting to the test signal program mode.

(This is because setting to the test signal program mode sets the tuner memory content in the state preset by the manufacturer and erases all the memory preset by the user.)

Upon completion of the test signal program, set to the tuner mode again and enter the preset memory as written in the table.

Preset group	P1	P2	P3	P4	P5	P6	P7	P8
A								
B								
C								
D								
E								

1. Starting Operation

While pressing 3 keys of TEST, CENTER MODE and PRO LOGIC simultaneously, turn ON the POWER switch, and the test signal program mode No.1 will start. After that, diagnosis as described below are performed according to DIGITAL SOUND FIELD PROCESSOR keys TEST to CONCERT HALL.

2. Functions available during the test signal program mode

In the test signal program mode, any operation other than those listed below is invalid.

- **DIGITAL SOUND FIELD PROCESSOR key** : Selection of diagnosis mode
- **INPUT SELECTOR key** : Switching input source
- **LEVEL +/- key** : Adjustment of output level
- **POWER ON/OFF key** : Power ON/OFF

TEST PROGRAM 1. — LCD&INITIALIZE

When the TEST program procedure is started, all LCD's turn ON, the set is initialized and the content as preset by the manufacturer is executed.

Then, when "+" or "-" of the FRONT EFFECT LEVEL switch is pressed once, "1 SELF" appears in the LCD after a few seconds.

- **INPUT** : CD
- **MONITOR OUT** : LD
- **SURROUND** : ☐ PRO LOGIC
- VOLUME LEVEL**
- **FRONT EFFECT** : "—"
- **CENTER** : "80"
- **REAR** : "80"

Note:
 "72" = -4dB
 "80" = 0dB
 "86" = +3dB

Note : To restore the TEST program 1 from any other TEST program, press the TEST key.

TEST PROGRAM 2. — LED & INHIBIT

The TEST program 2 checks the function to switch between the input source and TAPE MONITOR.

When the CENTER MODE key is pressed, "2 SELF" appears in the LCD and the input selector switches automatically. When the operation stops, the LCD turns OFF.

LED : After each of the LED's, PHONO, CD, TUNER, TAPE1, LD, VCR1 and TAPE 2 turns ON and after LD or TAPE1, LD, VCR1 turn ON finally, the operation stops.

TEST PROGRAM 3.

As the TEST program 3 is not intended for servicing, it needs not be performed.

Reference :

When the PRO LOGIC key is pressed, "8" appears in the center of the LCD. Then pressing "+" or "-" of the FRONT EFFECT LEVEL switch will cause the LCD to display "3 SELF" after a few seconds.

TEST PROGRAM 4. — STEERING OFF

Press the PRO LOGIC ENHANCED key

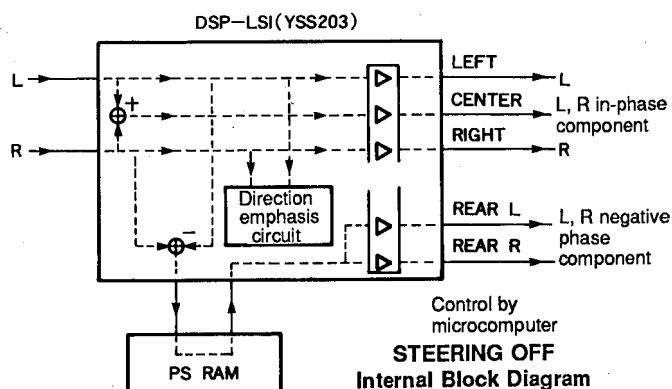
The MULTIPLYING DAC value in the DSP-LSI output step gets out of the control by the internal direction emphasis circuit and now it can be set through the microcomputer. Then the output of each channel is as listed below.

- **LEFT** : L signal
- **RIGHT** : R signal
- **CENTER** : L, R in-phase component
- **REAR** : L, R negative phase component

VOLUME LEVEL

- **FRONT EFFECT** : "—"
- **CENTER** : "80"
- **REAR** : "80"

The LCD displays "4 SELF".



TEST PROGRAM 5. — RAM THROUGH

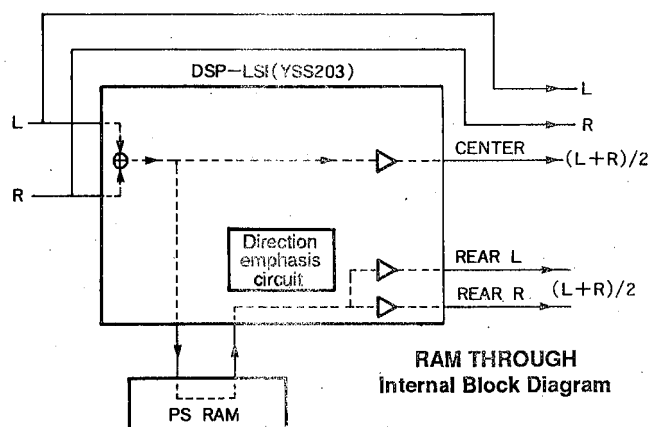
The **TEST** program 5 checks the output of each channel
Press the **CONCERT VIDEO** key

The L and R channels enter the through state and $(L + R)/2$ is output at the CENTER and REAR.

VOLUME LEVEL

- FRONT EFFECT : 66" 1676 mm
- CENTER : 72" 1829 mm
- REAR : 72" 1829 mm

The LCD displays "5 SELF".



3. Cancellation

The program is reset to the normal operation mode by turning the power OFF or by pressing the CONCERT HALL key. At the same time, the "maker preset" is also executed.

● Maker Preset

1) TUNER section

Preset group	P1	P2	P3	P4	P5	P6	P7	P8
A, C, E	87.5MHz	90.1MHz	95.1MHz	98.1MHz	U, C : 107.9MkHz R, A : 108.0MkHz	88.1MHz	106.1MHz	U, C : 107.9MkHz R, A : 108.0MHz
B, D	630kHz	1080kHz	1440kHz	U, C : 530kHz R, A : 531kHz	U, C : 1710kHz R, A : 1611kHz	900kHz	1350kHz	U, C : 1400kHz R, A : 1404kHz

All tuning modes are AUTO TUNING and AUTO STEREO.

2) SURROUND section

DELAY TIME : ☐ ☐ PRO LOGIC 20ms (Factory-set surround mode)
 ENHANCED 20ms
 CONCERT VIDEO 25ms
 MONO MOVIE 25ms
 ROCK CONCERT 15ms
 CONCERT HALL 30ms

CENTER MODE : NORMAL

VOLUME LEVEL : FRONT EFFECT "80" ("—" for PRO LOGIC)
 CENTER "80" (PRO LOGIC and ENHANCED only)
 REAR "80"

3) SELECTOR section

INPUT : CD
MONITOR OUT : LD

TEST PROGRAM 6. — Not performed

As the TEST program 6 is not intended for servicing, do not perform it.

Note : When the MONO MOVIE key is pressed by mistake, "6 SELF" appears in the LCD. This is meaningless for self-diagnosis function. If this has occurred by accident, do not proceed with other TEST programs. Turn OFF the power once and then restart the TEST program procedure.

TEST PROGRAM 7. — MANUAL TEST TONE

Press the ROCK CONCERT Key

The TEST tone of the DOLBY PRO LOGIC shifts in the order of L C R S (Surround) at every pressing of the ROCK CONCERT key. Also, the LCD displays "TEST" and the TEST output position ("L", "C", "R" or "S").

Example) "TEST L SELF"

VOLUME LEVEL

- FRONT EFFECT : "—"
- CENTER : "80"
- REAR : "86"

TEST PROGRAM 8. — EXIT

Press the CONCERT HALL Key

The program gets out of the self diagnosis mode and reenters the normal operation mode as factory-set.

A

B

C

D

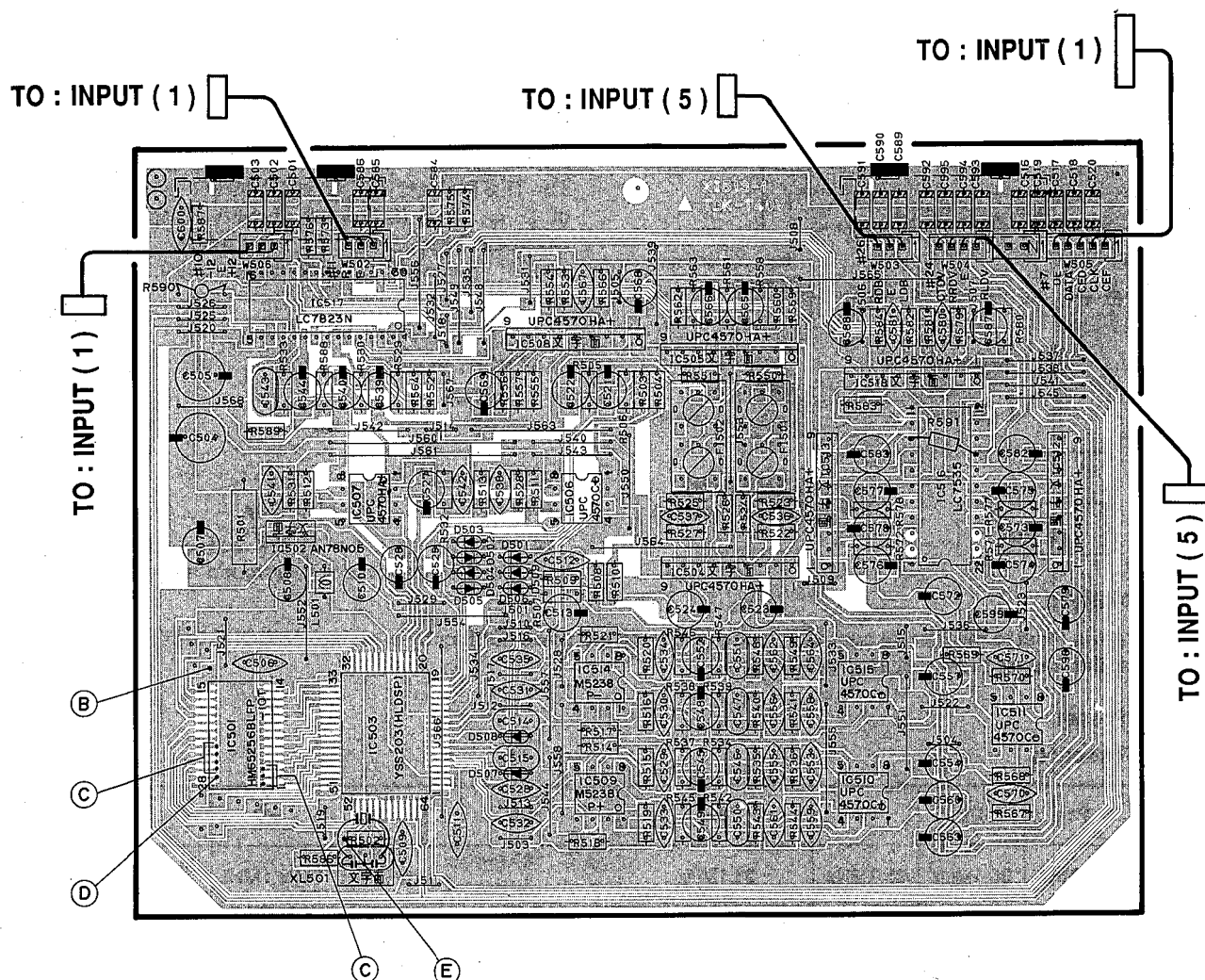
E

RX-V670

PRINTED CIRCUIT BOARD (Foil side)

Ⓑ to Ⓔ : WAVEFORM OF TEST POINT (See page 31)

DSP P. C. B. (1)



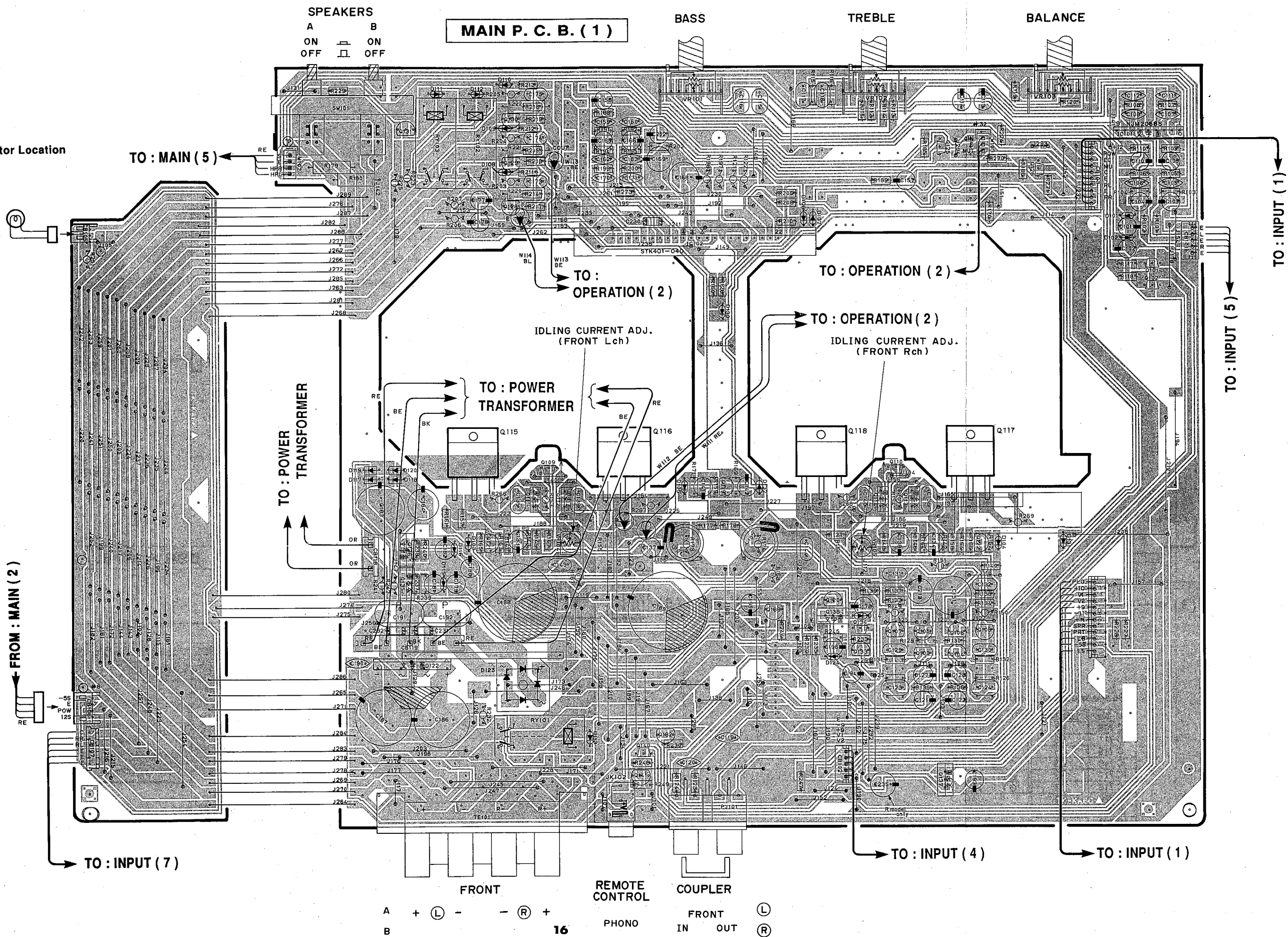
● Semiconductor Location

Ref. No.	Location
IC 501	B4
IC 502	B4
IC 503	B4
IC 504	C4
IC 505	C3
IC 506	C3
IC 507	B3
IC 508	C3
IC 509	C5
IC 510	D4
IC 511	D4
IC 512	E3
IC 513	D3
IC 514	C4
IC 515	D4
IC 516	D3
IC 517	B3
IC 518	D3

■ PRINTED CIRCUIT BOARD (Foil side)

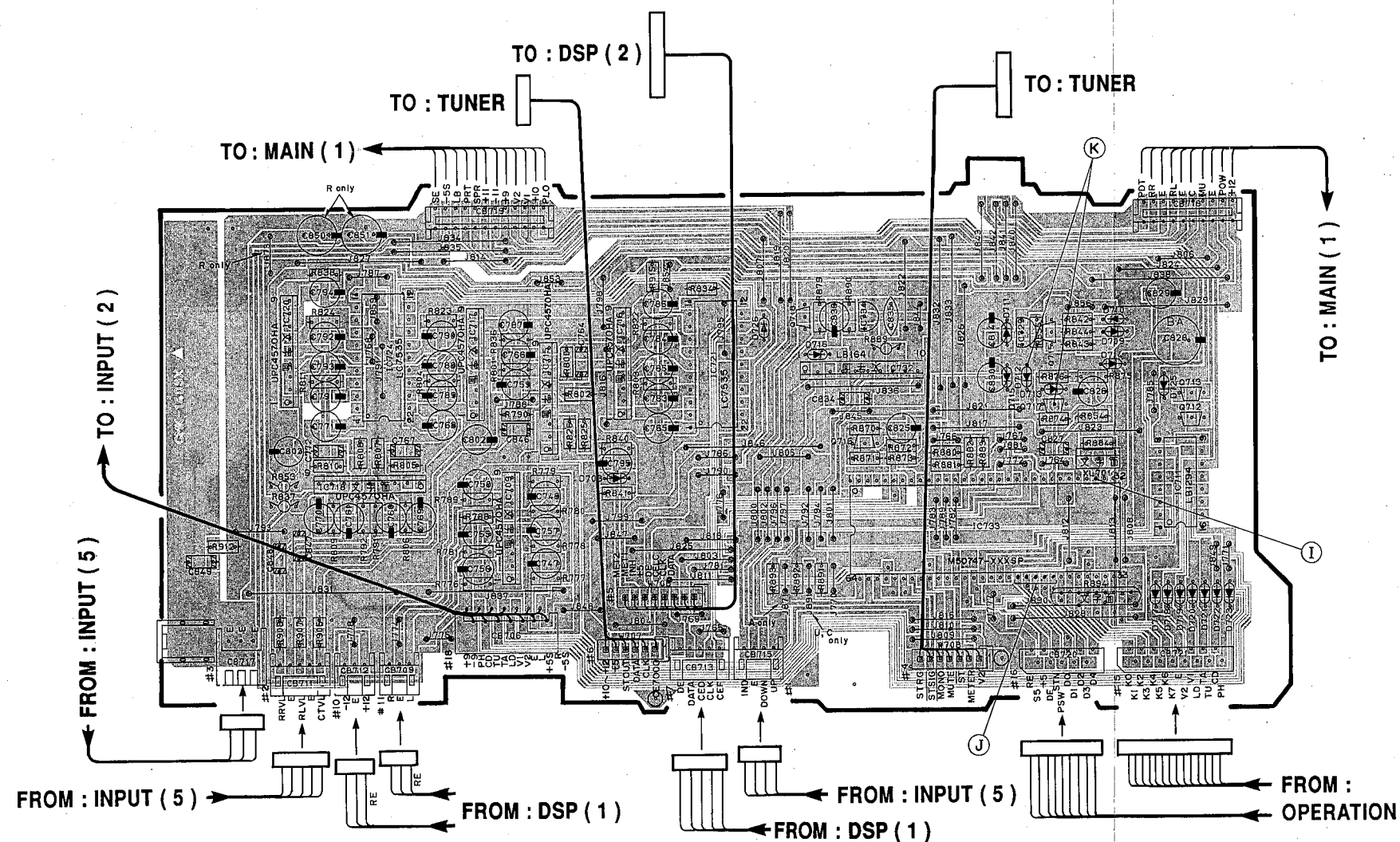
● Semiconductor Location

Ref. No.	Location
IC 101	G2
IC 102	E2
Q 101	G2
Q 102	G2
Q 103	F4
Q 104	F4
Q 105	F4
Q 106	F4
Q 107	F4
Q 108	F4
Q 109	D3
Q 110	F3
Q 111	D4
Q 112	D5
Q 113	F4
Q 114	F4
Q 115	D3
Q 116	D3
Q 117	F3
Q 118	E3
Q 119	E3
Q 120	F4
Q 121	D4
Q 122	F4
Q 125	F2
Q 126	G2
Q 128	D2
Q 129	D2
Q 130	D2
Q 131	C2
Q 132	E5
Q 133	F4
Q 134	F4
Q 135	C4
Q 136	C4
Q 137	F5
Q 138	F4
Q 139	E4
Q 140	E5
Q 141	E5

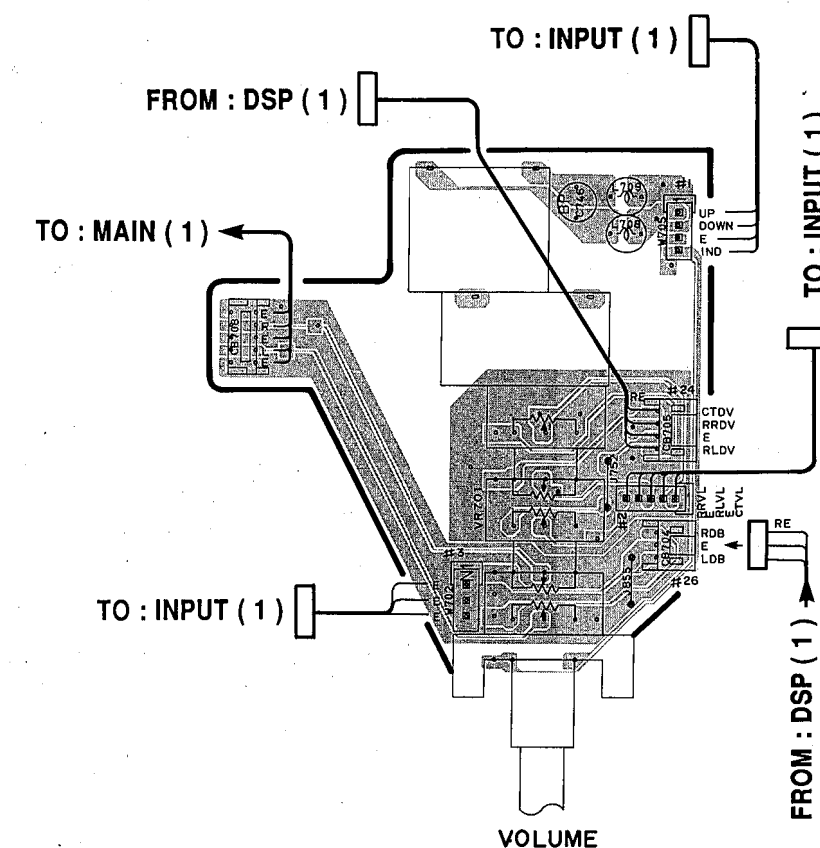
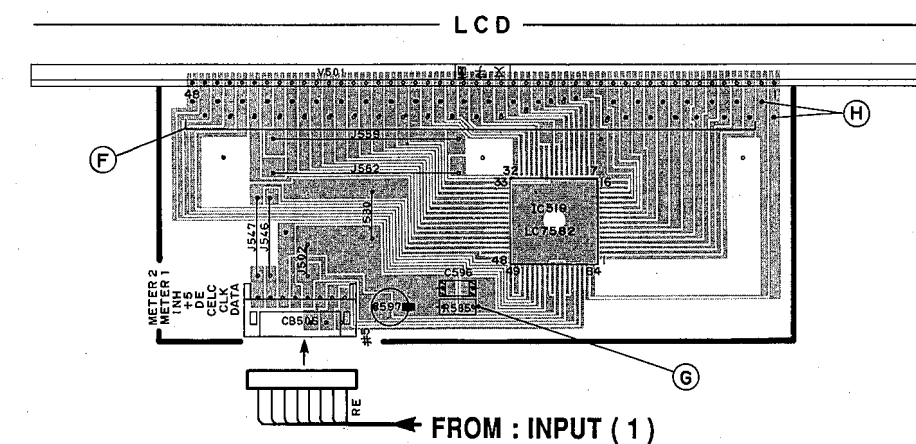


PRINTED CIRCUIT BOARD (Foil side)

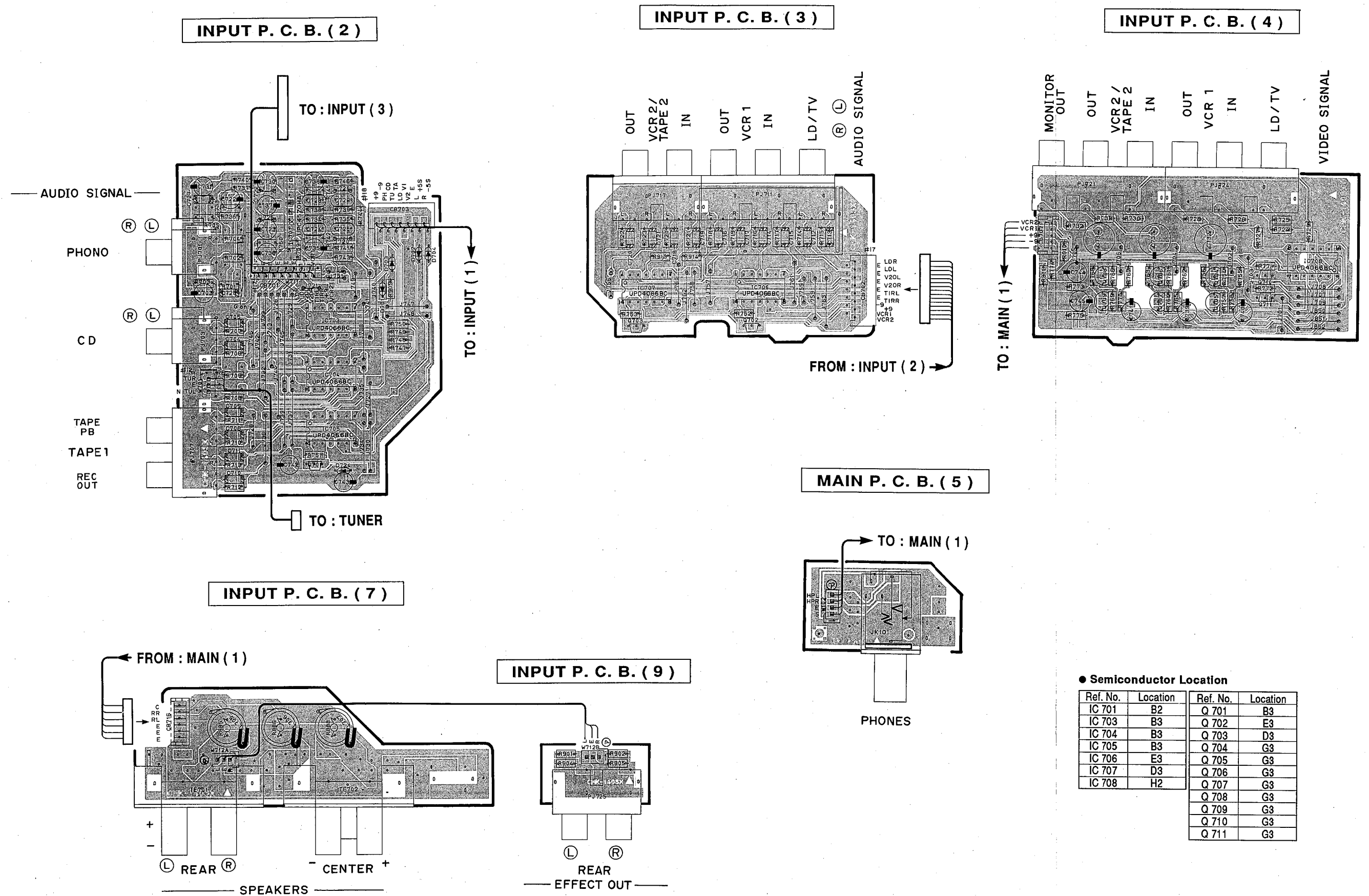
⑦ to ① : WAVEFORM OF TEST POINT (See page 31)

INPUT P. C. B. (1)

● Semiconductor Location

Ref. No.	Location	Ref. No.	Location
IC 709	B3	Q 712	E3
IC 711	E3	Q 713	E3
IC 715	C3	Q 715	D3
IC 716	C3	Q 716	D3
IC 717	B3	Q 717	D3
IC 718	B3	Q 718	C3
IC 720	B3		
IC 721	C3		
IC 724	B3		
IC 729	D3		
IC 732	D3		
IC 733	D3		
IC 734	D3		
IC 519	G5		

INPUT P. C. B. (5)

DSP P. C. B. (2)


■ PRINTED CIRCUIT BOARD (Foil side)



● Semiconductor Location

Ref. No.	Location	Ref. No.	Location
IC 701	B2	Q 701	B3
IC 703	B3	Q 702	E3
IC 704	B3	Q 703	D3
IC 705	B3	Q 704	G3
IC 706	E3	Q 705	G3
IC 707	D3	Q 706	G3
IC 708	H2	Q 707	G3
		Q 708	G3
		Q 709	G3
		Q 710	G3
		Q 711	G3

1

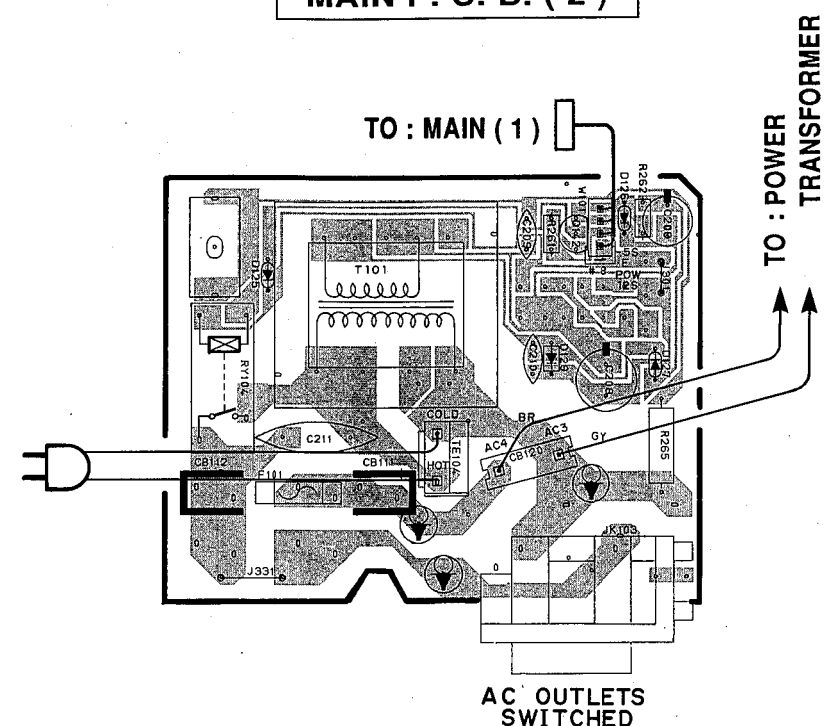
2



■ PRINTED CIRCUIT BOARD (Foil side)

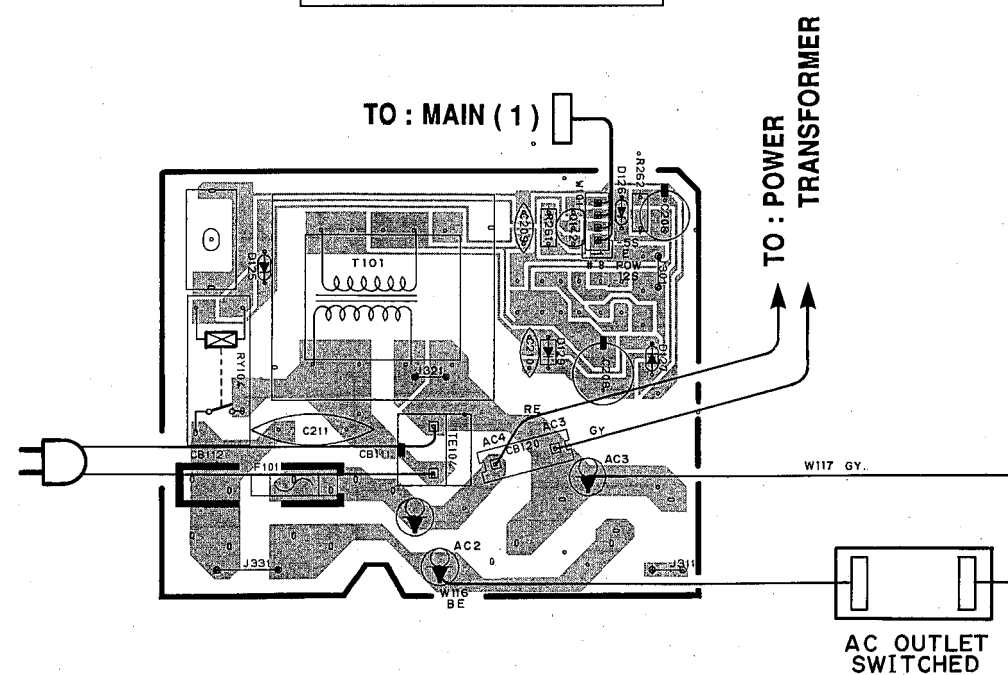
• U, C models

MAIN P. C. B. (2)



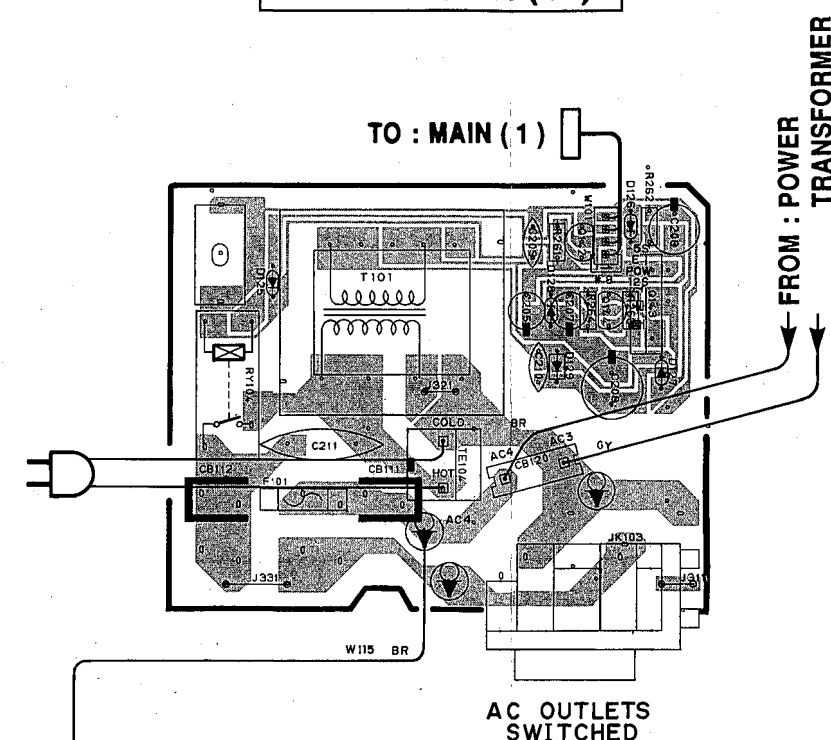
• A models

MAIN P. C. B. (2)

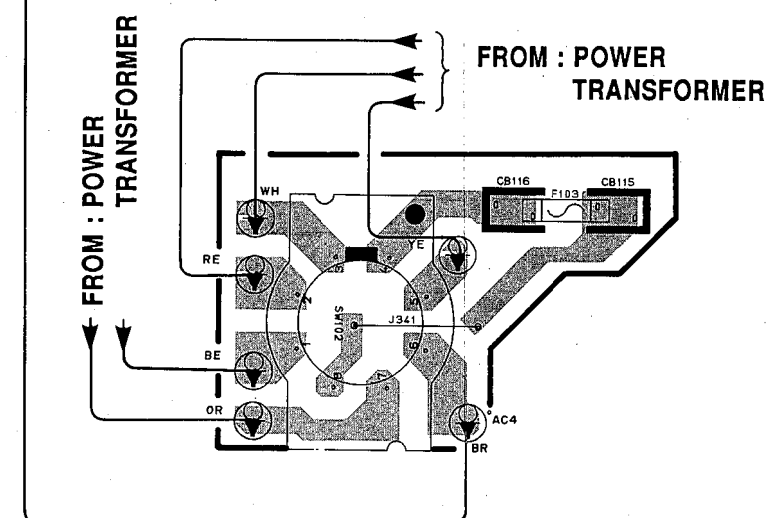


• R model

MAIN P. C. B. (2)

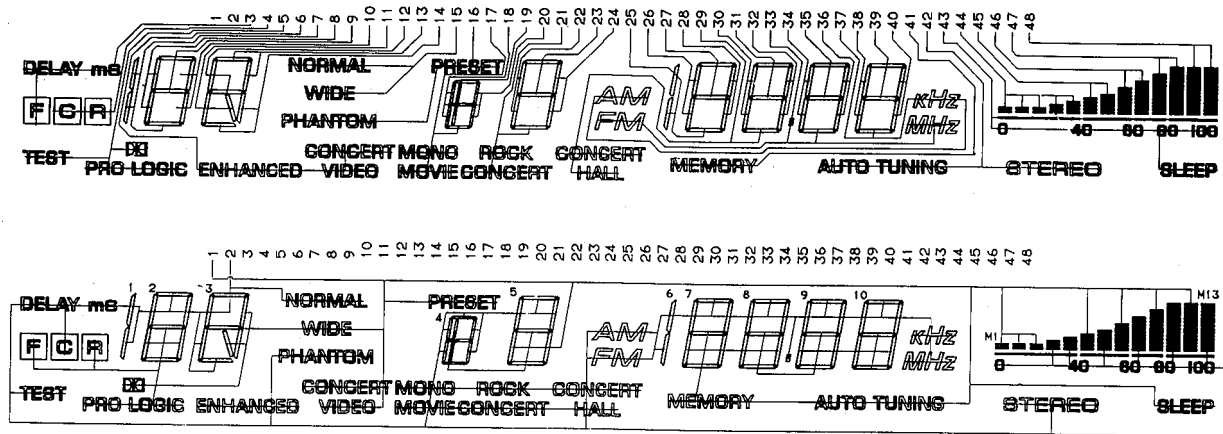


MAIN P. C. B. (4)



■ DISPLAY DATA (VJ805700)

● V501 : LCD8160BIJP

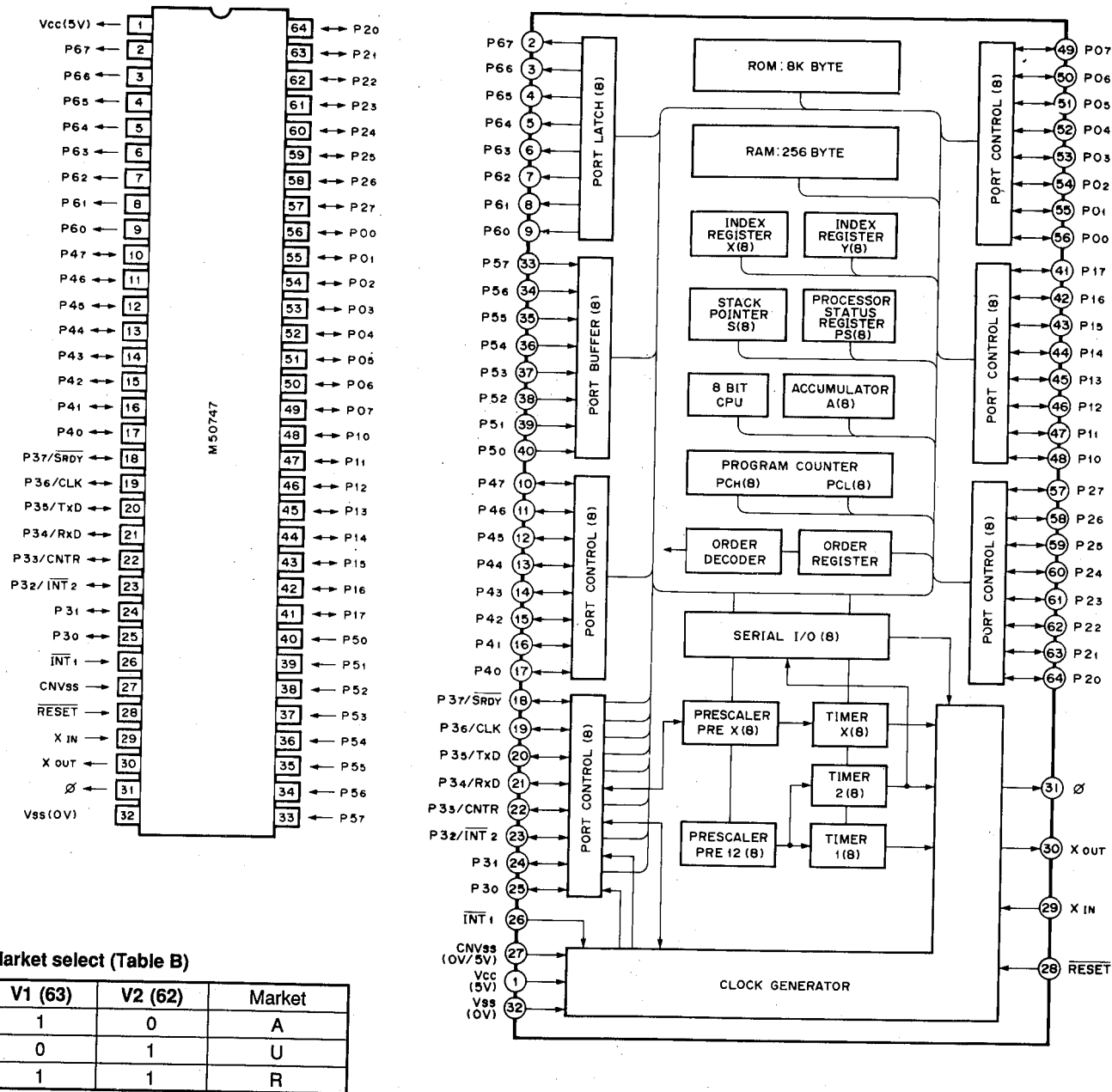


No.	COM 1	COM 2	No.	COM 1	COM 2	No.	COM 1	COM 2
1	—	COM	17	MONO MOVIE	4 d	33	FM, DP MHz	9 d
2	COM	—	18	4 ef	4 g	34	9 f	9 e
3	DELAY ms	F	19	4 a	4 ij	35	9 a	9 g
4	C	R	20	4 bc	4 h	36	9 b	9 c
5	TEST	1)	21	3)	5 d	37	AM kHz	10 d
6	ENHANCED	2)	22	5 f	5 e	38	10 f	10 e
7	1bc	2 d	23	5 a	5 g	39	10 a	10 g
8	2 f	2 e	24	5 b	5 c	40	10 b	10 c
9	2 a	2 g	25	6 bc	7 d	41	—	MEMORY
10	2 b	2 c	26	7 f	7 e	42	STEREO	AUTO TUNING
11	3 e	3 h	27	7 a	7 g	43	5)	SLEEP
12	3 f	3 g	28	7 b	7 c	44	M4, M5	M1, M2, M3
13	3 a	3 b	29	4)	8 d	45	M7	M6
14	3 d	3 c	30	8 f	8 e	46	M9	M8
15	NORMAL	WIDE	31	8 a	8 g	47	M11	M10
16	PHANTOM	PRESET	32	8 b	8 c	48	M13	M12

- 1) PRO LOGIC
- 2) CONCERT VIDEO
- 3) ROCK CONCERT
- 4) CONCERT HALL
- 5) 0 40 60 80 100

■ IC DATA

IC733 : M50747-XXXSP
8bit μ -COM



Market select (Table B)

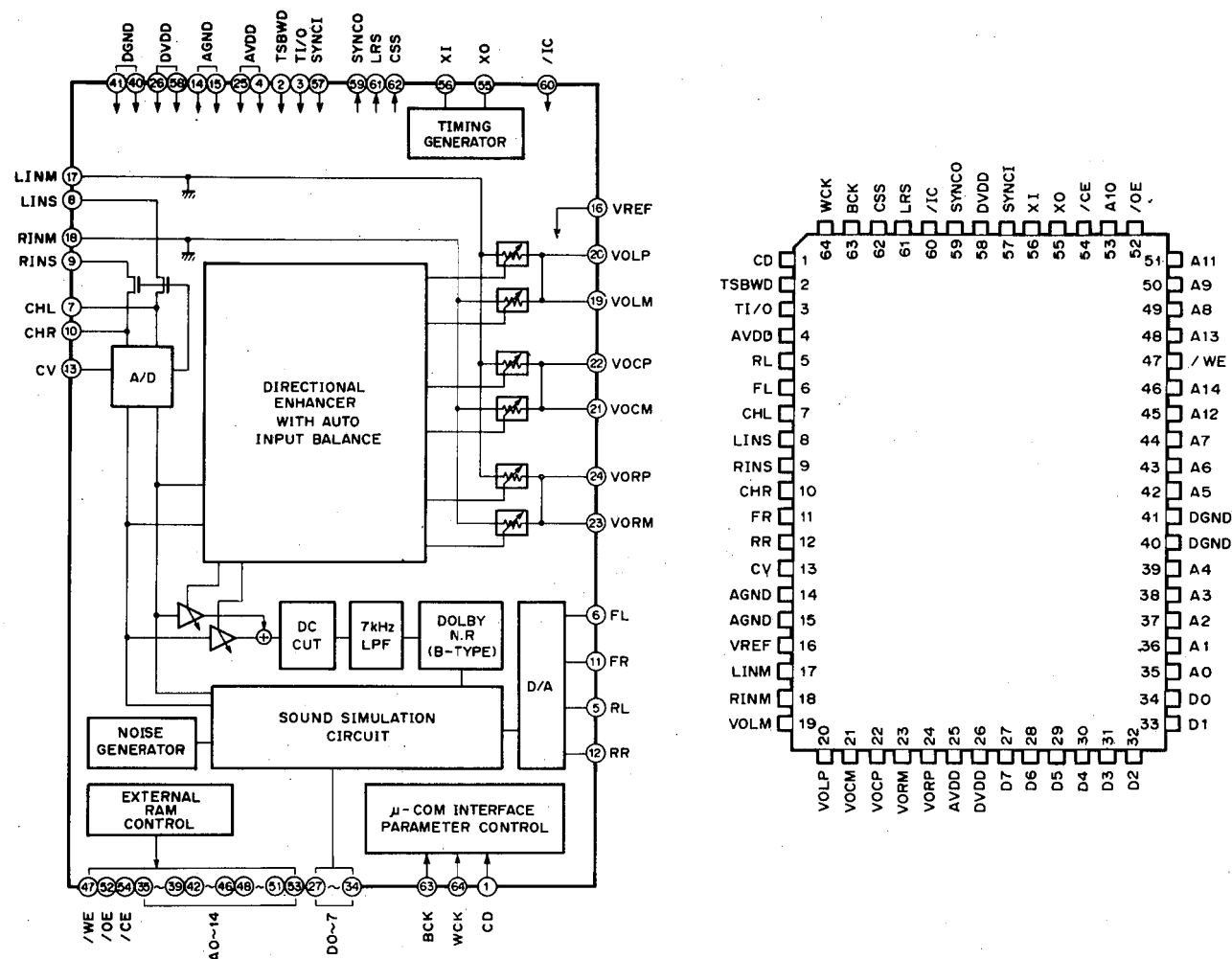
V1 (63)	V2 (62)	Market
1	0	A
0	1	U
1	1	R

Pin No.	Pin Name	Function Name	I/O	Active	Description
1	VCC	VCC	—	—	+5V
2	P67	PHN	O	H	Phono PLAY/CUT
3	P66		O	H/L	N.C
4	P65		O	H/L	
5	P64	CEVL	O	H	Chip select For center/rear volume For front volume/function For DSP
6	P63	CEF	O	H	
7	P62	CED	O	H	
8	P61	FMT	O	H	Audio mute

Pin No.	Pin Name	Function Name	I/O	Active	Description
9	P60	SPR	O	H	Speaker relay
10	P47	RRT	I	L	Protection detect
11	P46	TA	O	H	TAPE MONITOR ON/OFF & LED ON/OFF
12	P45	VC1	O	H	
13	P44	VC2	O	H	
14	P43	E200	O	H	
15	P42	G	O	H	Mode select (H : E200)
16	P41		O	L	STAND BY select (H : G)
17	P40	CELC	O	H	N. C
18	P37/SRDY		O	—	Chip select of LC7582
19	P36/CLK	CLKI	I	H/L	N. C
20	P35/TXD	DATA	O	H/L	
21	P34/RXD	CLKO	O	H/L	
22	P33/CNTR	TNH	O	L	
23	P32/INT2	PWR	O	H	LCD INHIBIT
24	P31	PDET	I	H	Power relay
25	P30	REM	I	H/L	Power detect
26	INTT	INT	I	L	Remote control signal input
27	CNVSS	CN VSS	—		External interrupt
28	RESET	RES	—	L	GND
29	XIN	XIN	—		Reset
30	XOUT	XOUT	—		Clock(8MHz)
31	Ø	—	—		
32	VSS	VSS	—		N. C
33	P57	K7	I	H	GND
34	P56	K6	I	H	
35	P55	K5	I	H	
36	P54	K4	I	H	
37	P53	K3	I	H	
38	P52	K2	I	H	
39	P51	K1	I	H	
40	P50	K0	I	H	
41	P17	D4	O	H	Key input
42	P16	D3	O	H	
43	P15	D2	O	H	
44	P14	D1	O	H	
45	P13	D0	O	H	
46	P12	LD	O	H	Digit output
47	P11	TU	O	H	
48	P10	CD	O	H	
49	P07	PH	O	H	
50	P06	PSW	I	H	INPUT SELECTOR & LED
51	P05	STN	O	L	
52	P04	VLD	O	H	
53	P03	VLU	O	H	
54	P02	IND	O	H	Power switch detect
55	P01	MUTE	O	L	Unused
56	P00	ST	I	L	Motor volume down
57	P27	MONO	O	L	Motor volume up
58	P26	STSIG	I	L	Volume LED
59	P25	STOUT	I	L	Tuner mute
60	P24	CE7000	O	H	Stereo detect
61	P23	STRQ	O	H	Forced MONO
62	P22	V2	I	H/L	Synchronous signal
63	P21	V1	I	H/L	Auto tuning stop command
64	P20	V660	I	L	Chip select for LM7000
					STRQ for LM7000
					Market select (Table B)
					Product (RX-V660) TUNER & SLEEP ON/OFF

IC503 : YSS203

Digital Dolby Pro Logic Decoder with Auto Input Balance



Pin No.	Pin Name	I/O	Function
1	CD	I _{ts}	Serial data of parameter data input
2	TSBWD	I _c	LSI test terminal Normally connected to DVDD
3	TI/O	I _c	LSI test terminal Normally connected to /CSS terminal
4	AVDD	A—	+5V power supply (D/A, A/D section)
5	RL	AO	RL channel D/A output
6	FL	AO	FL channel D/A output
7	CHL	A—	LINS input Sample/hold Capacitor external terminal
8	LINS	AI	L channel A/D input
9	RINS	AI	R channel A/D input
10	CHR	A—	RINS input Sample/hold Capacitor external terminal
11	FR	AO	FR channel D/A input
12	RR	AO	RR channel D/A input
13	CV	AO	A/D, multiplaying DAC center voltage
14	AGND	A—	Ground (D/A, A/D section)
15	AGND	A—	Ground (Multiplaying DAC section)
16	VREF	AI	Multiplaying DAC reference voltage input
17	LINM	AI	L channel Multiplaying DAC input
18	RINM	AI	R channel Multiplaying DAC input
19	VOLM	AO	L channel operation amplifier, connected to (–) terminal
20	VOLP	AO	L channel operation amplifier, connected to (+) terminal

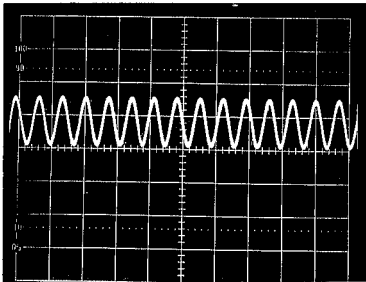
Pin No.	Pin Name	I/O	Function
21	VOCM	AO	C channel operation amplifier, connected to (–) terminal
22	VOCP	AO	C channel operation amplifier, connected to (+) terminal
23	VORM	AO	R channel operation amplifier, connected to (–) terminal
24	VORP	AO	R channel operation amplifier, connected to (+) terminal
25	AVDD	A—	+5V power supply (multiplying DAC section)
26	DVDD	—	+5V power supply (digital section)
27	D7	I/Ot	External delay RAM data terminal
28	D6	I/Ot	External delay RAM data terminal
29	D5	I/Ot	External delay RAM data terminal
30	D4	I/Ot	External delay RAM data terminal
31	D3	I/Ot	External delay RAM data terminal
32	D2	I/Ot	External delay RAM data terminal
33	D1	I/Ot	External delay RAM data terminal
34	D0	I/Ot	External delay RAM data terminal
35	A0	O	External data RAM address terminal
36	A1	O	External data RAM address terminal
37	A2	O	External data RAM address terminal
38	A3	O	External data RAM address terminal
39	A4	O	External data RAM address terminal
40	DGND	—	Ground (digital section)
41	DGND	—	Ground (digital section)
42	A5	O	External data RAM address terminal
43	A6	O	External data RAM address terminal
44	A7	O	External data RAM address terminal
45	A12	O	External data RAM address terminal
46	A14	O	External data RAM address terminal
47	/WE	O	External delay RAM write enable terminal
48	A13	O	External delay RAM address terminal
49	A8	O	External delay RAM address terminal
50	A9	O	External delay RAM address terminal
51	A11	O	External delay RAM address terminal
52	/OE	O	External delay RAM output enable terminal
53	A10	O	External delay RAM address terminal
54	/CE	O	External delay RAM chip enable terminal
55	XO	O	Crystal oscillator connecting terminal
56	XI	I	Crystal oscillator connecting terminal
57	SYNCl	It	Test terminal for system synchronization, normally connected to DVDD
58	DVDD	—	+5V power supply (digital section)
59	SYNCO	O	Test terminal for system synchronization, normally unconnected
60	/IC	Ics	Initial clear terminal (Power ON resetting is necessary)
61	LRS	O	External automatic input balance terminal, normally left open
62	/CSS	O	External automatic input balance terminal, connected to TI/O terminal
63	BCK	I _{ts}	Bit clock for parameter data input
64	WCK	I _{ts}	Word clock for parameter data input

Note : Alphabets used in the above I/O column represent as follows.

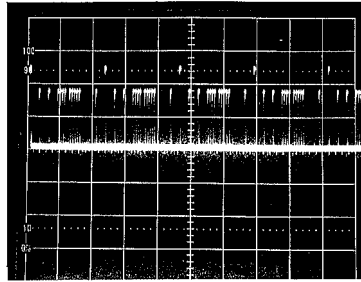
I : Input terminal O : Output terminal t : TTL level
C : CMOS level S : Schmidt input A : Analog terminal

WAVEFORM OF TEST POINT

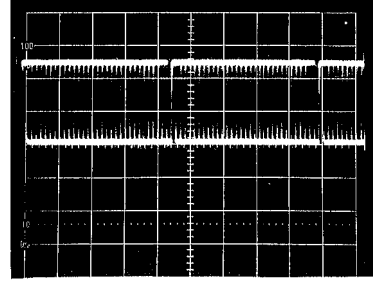
Point (A): XIN (Pin 1 of IC2)
 V : 0.2V/div H : 0.2 sec/div
 DC range 10 : 1 probe



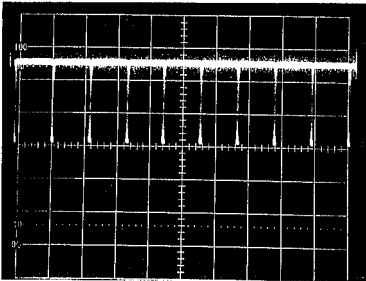
Point (B): D3 (Pin 15 of IC501)
 V : 2V/div H : 10μsec/div
 DC range 1 : 1 probe



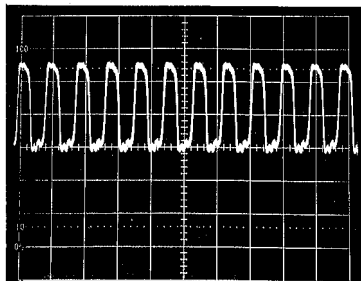
Point (C): A7~9, A11~14
 (Pin 1 of 3 of IC501, Pin23 to 26 of IC501)
 V : 2V/div H : 5μsec/div
 DC range 1 : 1 probe



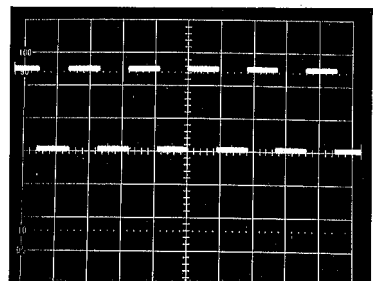
Point (D): WE (Pin 27 of IC501)
 V : 2V/div H : 10μsec/div
 DC range 1 : 1 probe



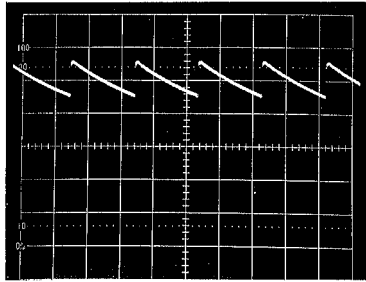
Point (E): XO (Pin 55 of IC503)
 V : 0.2V/div H : 0.1μsec/div
 DC range 10 : 1 probe



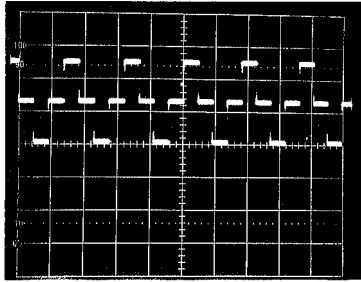
Point (F) (Pin 3 to 48 of V501)
 V : 2V/div H : 5msec/div
 DC range 1 : 1 probe



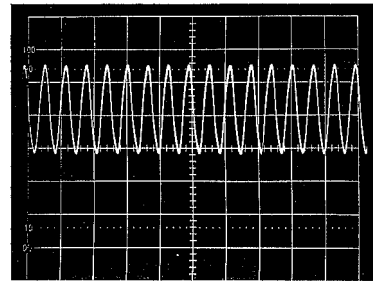
Point (G): OSC (Pin 55 of IC519)
 V : 2V/div H : 10μsec/div
 DC range 1 : 1 probe



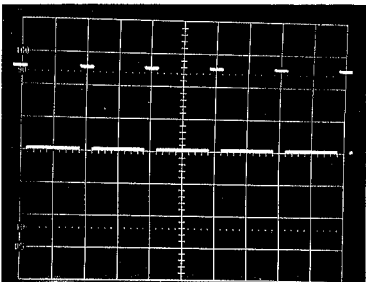
Point (H) (Pin 1 and 2 of V501)
 V : 2V/div H : 5msec/div
 DC range 1 : 1 probe



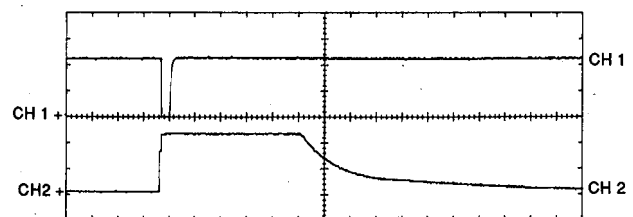
Point (I): XIN (Pin 29 of IC733)
 V : 0.2V/div H : 0.2μsec/div
 DC range 10 : 1 probe



Point (J): D4 to D0 (Pin 41 to 45 of IC733)
 V : 0.2V/div H : 5msec/div
 DC range 10 : 1 probe



Point (K): RESET, S+5V
 (CH1 : Pin 28 to IC733, CH2 : Anode of D712)
 V : 2V/div H : 200msec/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 & OPERATION)

Each voltage given here represents that in the FM (88.1MHz, STEREO) reception mode but the one in the parentheses () is that in the AM (1404kHz) reception mode.

①: WAVEFORM OF TEST POINT (See page 31)

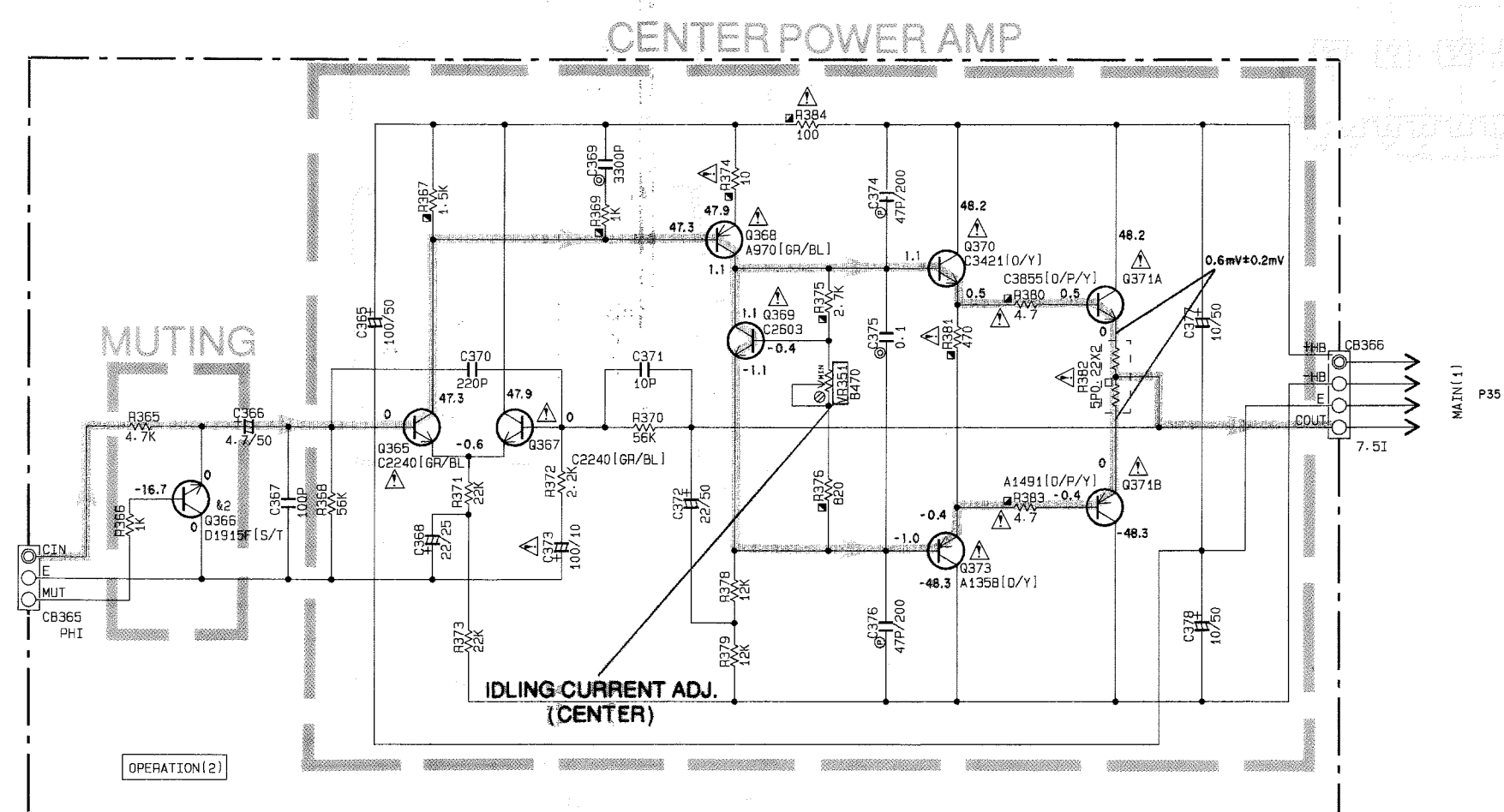
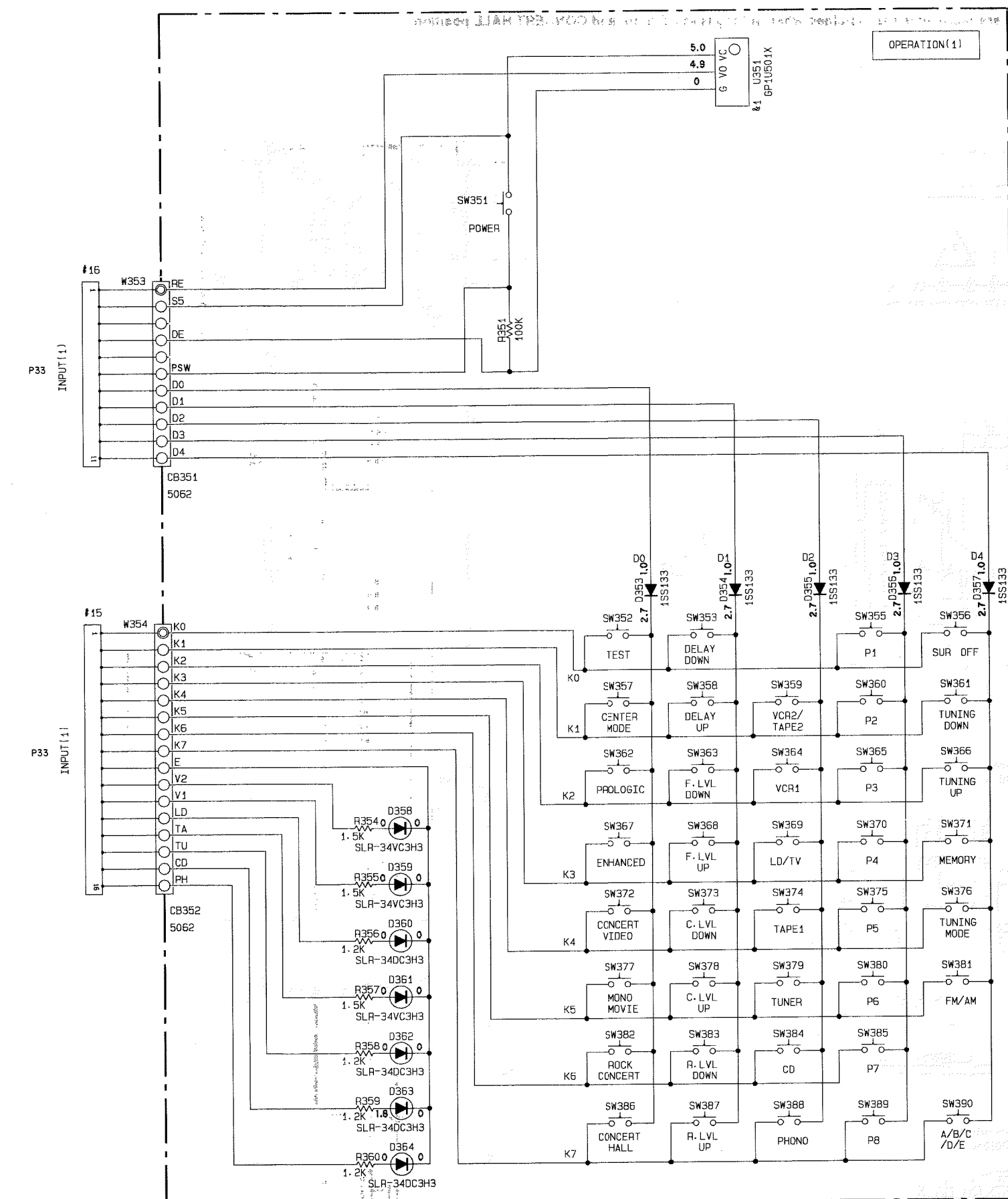
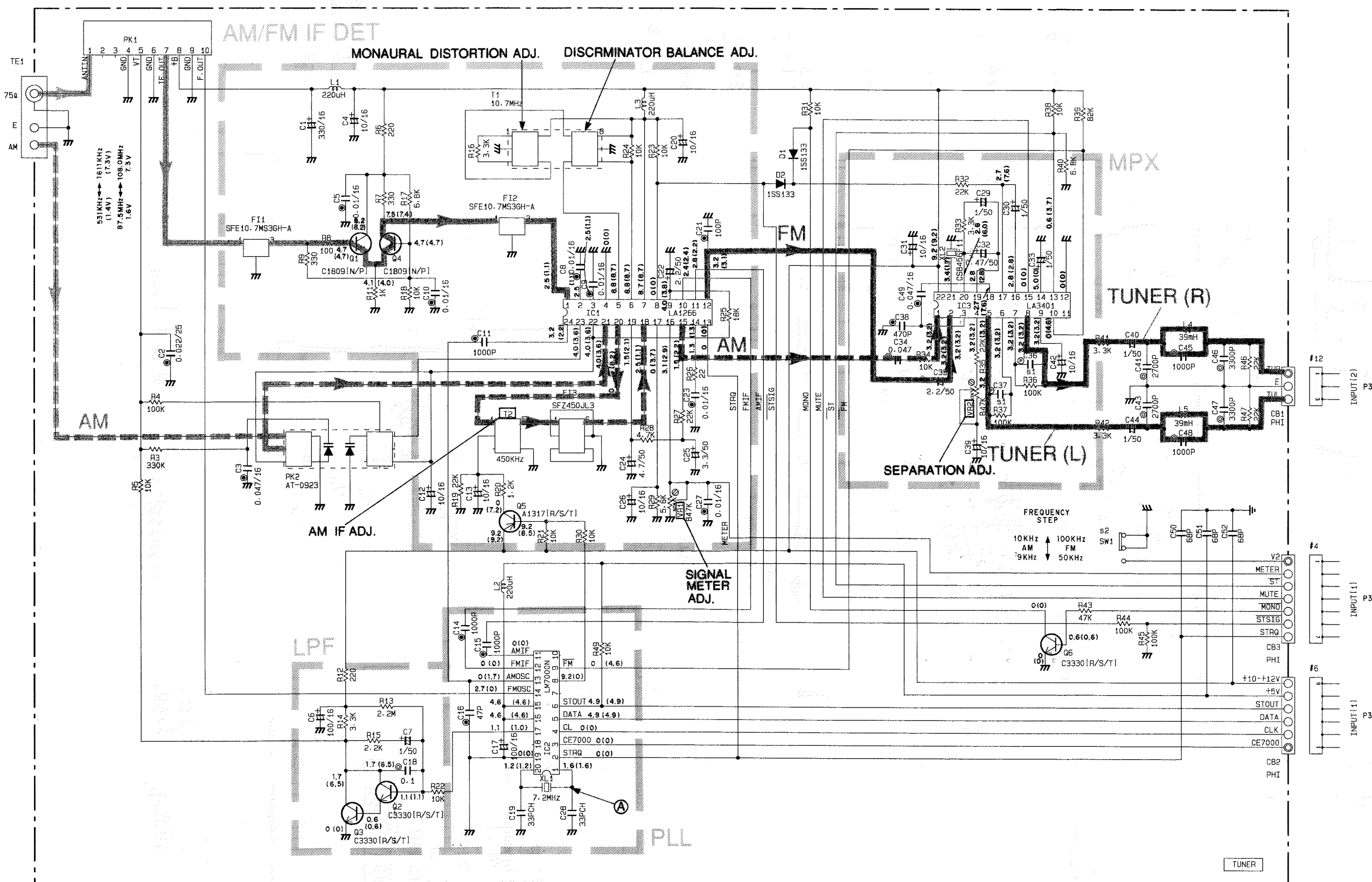
REMARKS	PARTS NAME
NO MARK	ELECTROLYTIC CAPACITOR
NO MARK	TANTALUM CAPACITOR
NO MARK	CERAMIC CAPACITOR
⊙	AXIAL LEAD CERAMIC CAPACITOR
⊙	POLYSTYRENE FILM CAPACITOR
⊙	POLYSTYRENE FILM CAPACITOR
⊙	MICA CAPACITOR
⊙	POLYPROPYLENE FILM CAPACITOR
⊙	POLYPROPYLENE FILM CAPACITOR
⊙	SEMICONDUCTIVE CERAMIC CAPACITOR

REMARKS	PARTS NAME
NO MARK	CARBON FILM RESISTOR (1/6W)
⊙	CARBON FILM RESISTOR (1/4W)
⊙	METAL OXIDE FILM RESISTOR
⊙	METAL FILM RESISTOR
⊙	METAL PLATE RESISTOR
⊙	FIRE-PROOF CARBON FILM RESISTOR
⊙	CEMENT MOLDED RESISTOR
⊙	GENERIC model
⊙	SEMI VARIABLE RESISTOR
⊙	CHIP RESISTOR

NOTICE
(J).... Japanese model
(U).... U.S.A. model
(C).... Canadian model
(A).... Australian model
(G).... European model
(B).... British model
(P).... German model
(R).... French model

KIND	START	LAST	UNLISTED NO.
R	1	49	10
C	1	52	
D	1	2	
Q	1	6	
IC	1	3	
CB	1	3	

U.C.	R	A
S1	680P/100	680P/100
S2	×	VFS4120

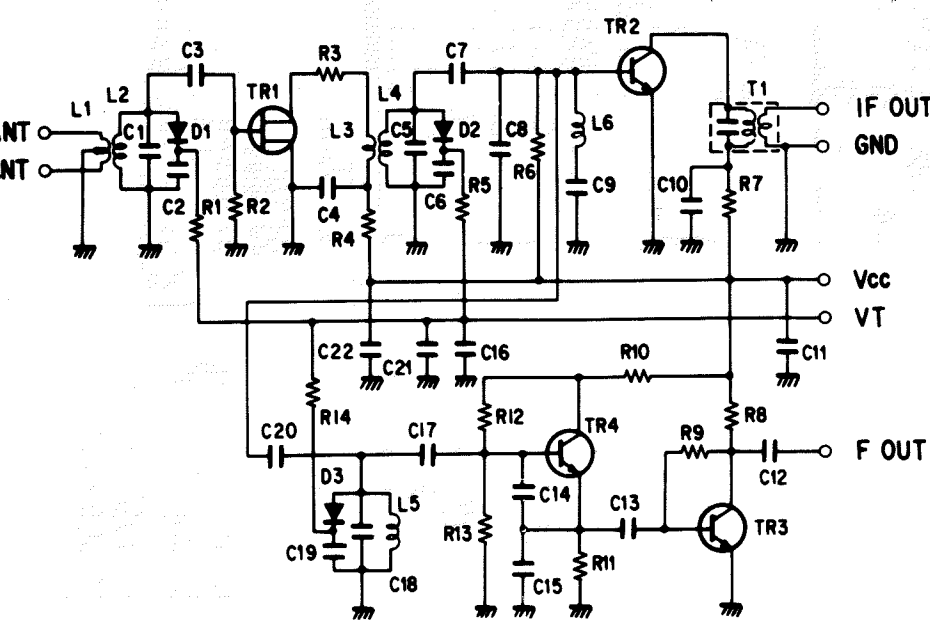


Interchangeable Parts at Manufacture-Stage

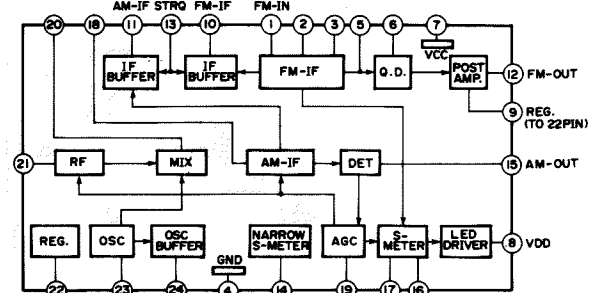
Mark	Reference Parts Number	Parts Name
K1	U351	6P1U501X 6P1U51X
K2	Q366	2501915P/15/11 2502816A/6/1

KIND	START	LAST	UNLISTED NO.
R	351	364	361-364
D	353	364	
Q	365	373	362-364
CB	351	365	353-364
C	365	378	

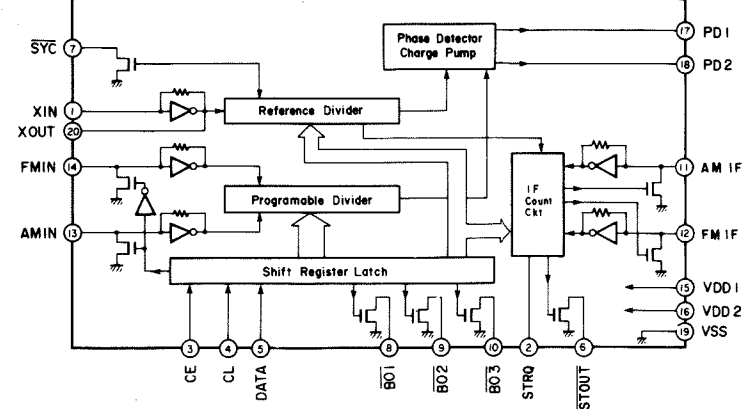
PK1 : TFFG1U (VK208500)



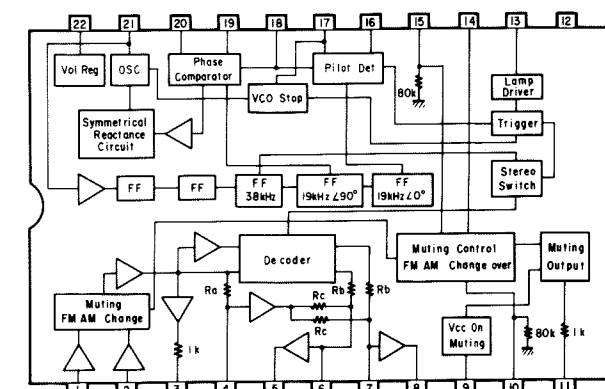
IC1 : LA1266
AM/FM IF



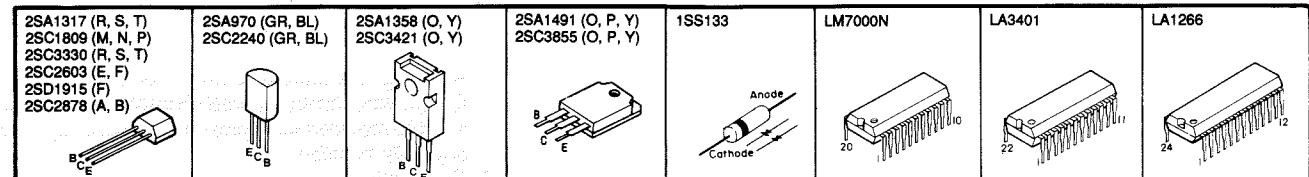
IC2 : LM7000N
PLL Controller



IC3 : LA3401
MPX



PIN CONNECTION DIAGRAM OF TRANSISTORS, DIODES AND ICs.



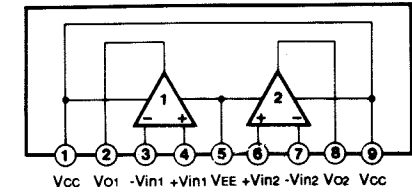
All voltage are measured with a 10MΩ/V DC electric volt meter.
Components having special characteristics are marked Δ, and must be replaced with parts having specifications equal to those originally installed.
Schematic diagram is subject to change without notice.

■ SCHEMATIC DIAGRAM (INPUT)

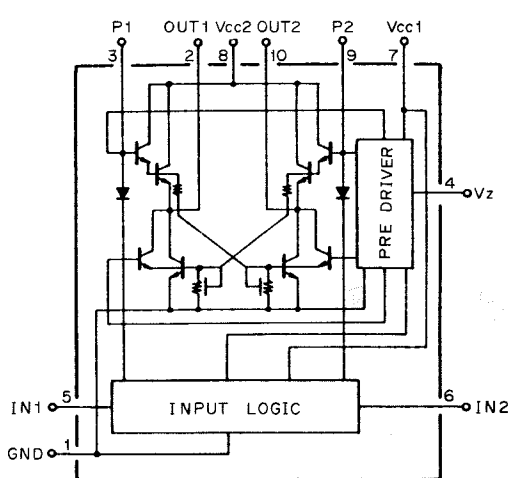
Each voltage given here represents that obtained when setting is at CD input and CONCERT HALL position.

① to ⑧: WAVEFORM OF TEST POINT (See page 31)

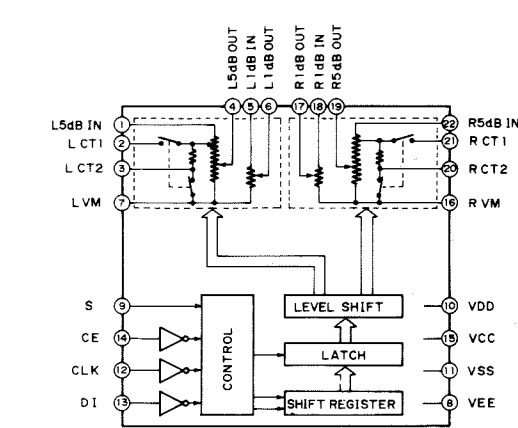
IC701, 709, 715-718, 720 : μ PC4570HA
Dual OP-Amp



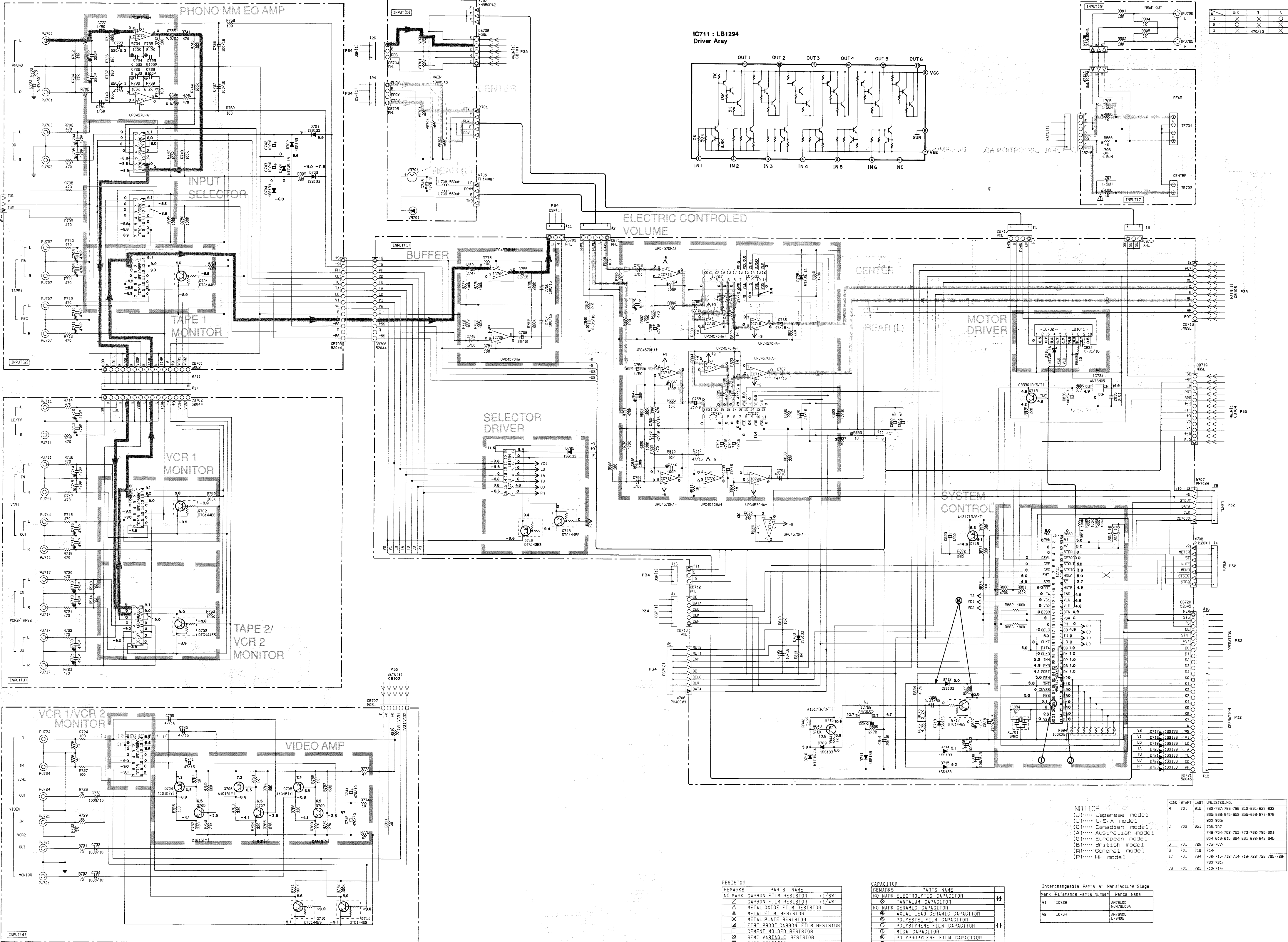
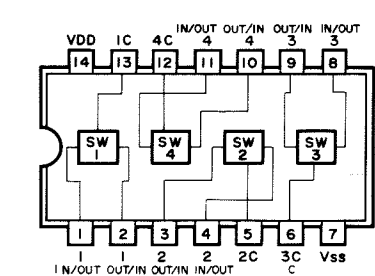
IC732 : LB1641
Motor Driver



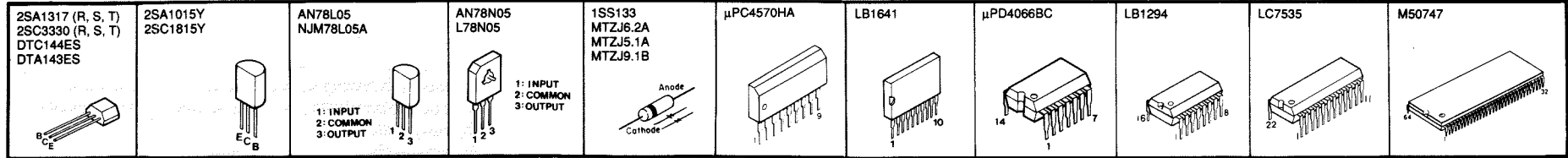
IC721, 724 : LC7535
Electric Controlled Volume



IC703-708 : μ PD406BC
Quad Bilateral Switch



PIN CONNECTION DIAGRAM OF TRANSISTORS, DIODES AND ICs.



REMARKS	PARTS NAME
NO MARK	CARBON FILM RESISTOR (1/5W)
△	CARBON FILM RESISTOR (1/4W)
□	METAL OXIDE FILM RESISTOR
▢	METAL FILM RESISTOR
■	METAL PLATE RESISTOR
◆	FIRE PROOF CARBON FILM RESISTOR
●	CEMENT MOLDED RESISTOR
■	SEMI VARIABLE RESISTOR
■	CHIP RESISTOR

REMARKS	PARTS NAME
NO MARK	ELECTROLYTIC CAPACITOR
⊗	TANTALUM CAPACITOR
⊙	NO MARK CERAMIC CAPACITOR
●	AXIAL LEAD CERAMIC CAPACITOR
○	POLYSTYRENE FILM CAPACITOR
○	POLYSTYRENE FILM CAPACITOR
○	MIL CAPACITOR
○	POLYPROPYLENE FILM CAPACITOR
●	SEMICONDUCTIVE CERAMIC CAPACITOR

Mark	Reference Parts Number	Parts Name
81	10709	AN78L05 NJM78L05A
82	10734	AN78N05 L78N05

NOTICE
(J)..... Japanese model
(U)..... U.S.A model
(C)..... Canadian model
(A)..... Australian model
(G)..... European model
(S)..... British model
(R)..... German model
(P)..... RP model

Kind	Start	Last	UN LISTED NO.
A	701	818	785-787, 789-790, 812-851, 827-833, 835, 839, 845-850, 856-859, 877-879, 900-905
C	703	951	708-707, 749-754, 782-783, 773-780, 796-801, 804-813, 815-824, 831-832, 843-845
D	701	725	729-737
G	701	718	714
IC	701	734	705, 710, 712-714, 716, 722-723, 725-726, 729-734
CB	701	721	720-724

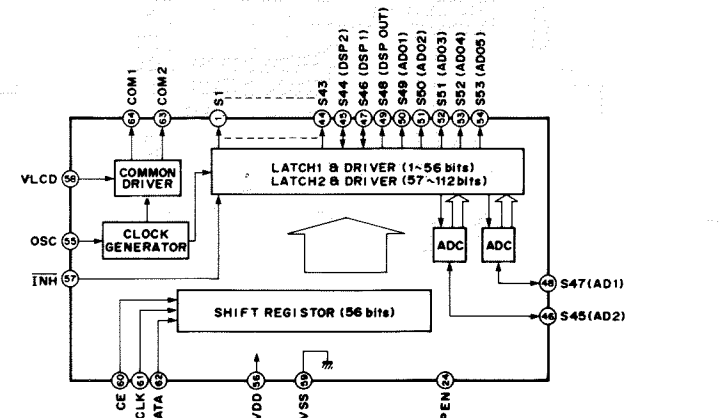
* All voltage are measured with a 10M Ω /V DC electric volt meter.
* Components having special characteristics are marked Δ , and must be replaced with parts having specifications equal to those originally installed.
* Schematic diagram is subject to change without notice.

■ SCHEMATIC DIAGRAM (DSP)

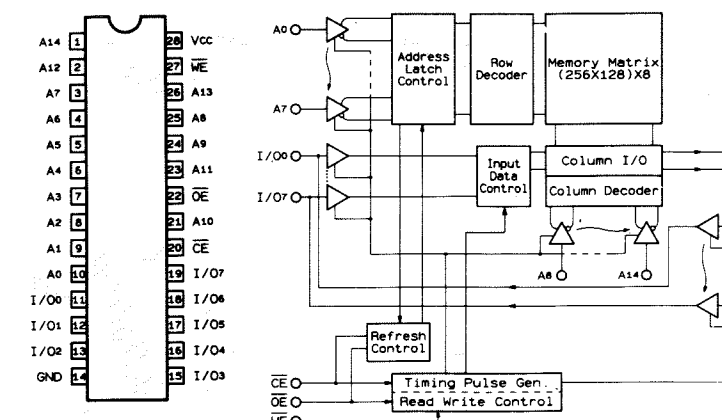
Each voltage given here represents that obtained when setting is at CD input and CONCERT HALL position.

⑤ to ⑪: WAVEFORM OF TEST POINT (See page 31)

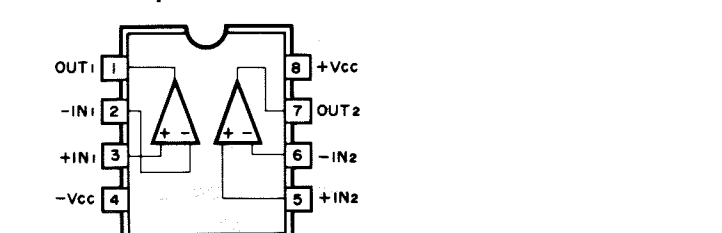
IC519 : LC7582
LCD Driver



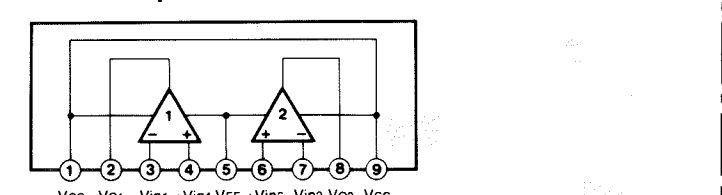
IC501 : HM65256BLFP-10T or TC51832FL-10
32768-word x 8-bit High Speed Pseudo Static RAM



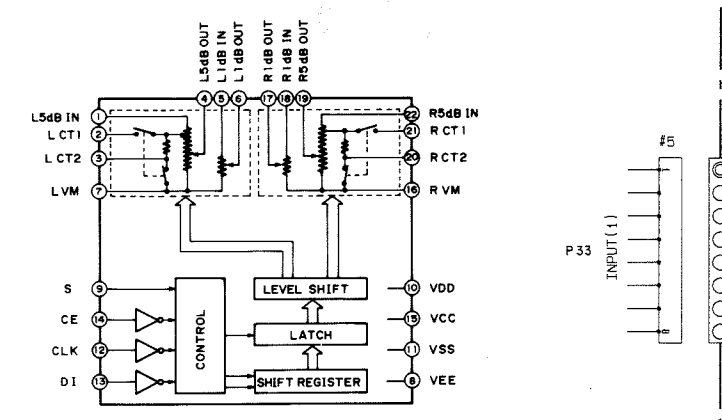
IC509, 514 : M5238P
IC506, 507, 510, 511, 515 : μPC4570C
Dual OP-Amp



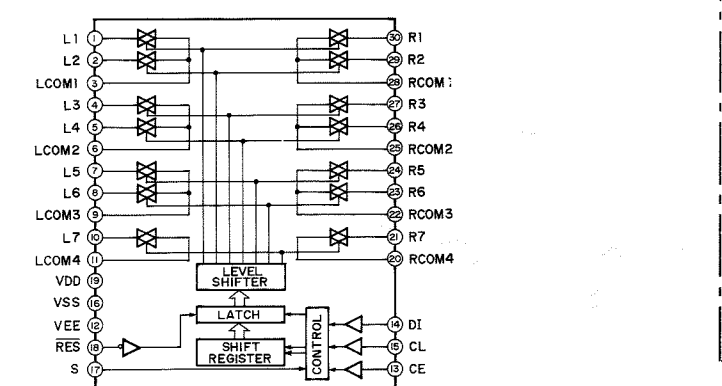
IC504, 505, 508, 512,
513, 518 : μPC4570HA
Dual OP-Amp



IC516 : LC7535
Electric Controlled Volume



IC517 : LC7823N
Analog Function Switch

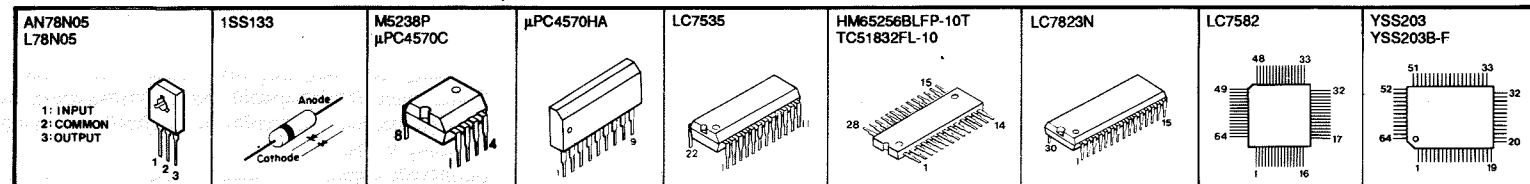


CAPACITOR	PARTS NAME	REMARKS	PARTS NAME	REMARKS
NO MARK	ELECTROLYTIC CAPACITOR	NO MARK	CARBON FILM RESISTOR (1/4W)	(J)..... Japanese model
NO MARK	TANTALUM CAPACITOR	NO MARK	CARBON FILM RESISTOR (1/4W)	(U)..... U.S.A. model
NO MARK	CERAMIC CAPACITOR	NO MARK	METAL FILM RESISTOR	(C)..... Canadian model
AXIAL LEAD	CERAMIC CAPACITOR	NO MARK	METAL FILM RESISTOR	(A)..... Australian model
POLYESTER FILM	CAPACITOR	NO MARK	METAL FILM RESISTOR	(G)..... European model
POLYSTYRENE FILM	CAPACITOR	NO MARK	METAL FILM RESISTOR	(B)..... British model
MICA	CAPACITOR	NO MARK	FIRE PROOF CARBON FILM RESISTOR	(R)..... General model
POLYPROPYLENE FILM	CAPACITOR	NO MARK	CEMENT MOLDED RESISTOR	(P)..... AP model
SEMICONDUCTIVE CERAMIC	CAPACITOR	NO MARK	SEMI VARIABLE RESISTOR	
		NO MARK	CHIP RESISTOR	

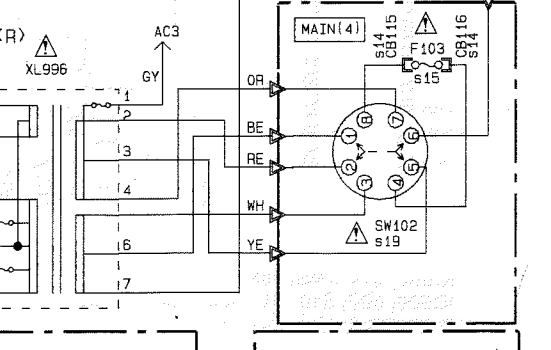
NOTICE
(J)..... Japanese model
(U)..... U.S.A. model
(C)..... Canadian model
(A)..... Australian model
(G)..... European model
(B)..... British model
(R)..... General model
(P)..... AP model

Mark	Reference Parts Number	Parts Name
K1	IC502	AN7805 L7805
K2	IC501	HM65256BLFP-10T TC51832FL-10
K3	IC503	YS8203H-DSP YS8203B-F

PIN CONNECTION DIAGRAM OF TRANSISTORS, DIODES AND ICs.



All voltage are measured with a 10MΩ/V DC electric volt meter.
Components having special characteristics are marked Δ and must be replaced with parts having specifications equal to those originally installed.
Schematic diagram is subject to change without notice.



NOTICE

(J)..... Japanese model
(U)..... U.S.A model
(C)..... Canadian model
(A)..... Australian model
(G)..... European model
(B)..... British model
(R)..... General model
(P)..... RP model

- * All voltage are measured with a 10M Ω /V DC electric volt meter.
- * Components having special characteristics are marked Δ and must be replaced with parts having specifications equal to those 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 parts No. of the carbon resistors, refer to last page.

ABBREVIATIONS IN THIS LIST ARE AS FOLLOWS :

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

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

MAIN P. C. B.

RX-V670

Schm

Ref. PART NO. Description

*	VP833000	P. C. B.	MAIN(U)		
*	VP833100	P. C. B.	MAIN(C)		
*	VP833200	P. C. B.	MAIN(R)		
*	VP833300	P. C. B.	MAIN(A)		
	CB101	VA252300	CN	MQ	5P
	CB102	VA252300	CN	MQ	5P
	CB103	Vi378000	CN, BS, PIN	MQ	10P TE
	CB104	VA252400	CN	MQ	12P
	CB105	VB858100	CN, POST	PH	2P SE
	CB106	VB858300	CN, POST	PH	4P SE
	CB111	LB201880	HOLDER, FUS	PC-FH1	
	CB112	LB201880	HOLDER, FUS	PC-FH1	
	CB115	LB201880	HOLDER, FUS	PC-FH1	
	CB116	LB201880	HOLDER, FUS	PC-FH1	
	CB118	LA002000	TERM. WRAP	2P i-TYPE	P=7.5
	CB119	LA002340	TERM. WRAP	5P i-TYPE	P=7.5
	CB120	LA002140	TERM. WRAP	2P i-TYPE	P=10
	C101	VG291200	C. EL	47uF	50V
	C102	VG291200	C. EL	47uF	50V
	C103	Vi377400	C. EL	4.7uF	63V
	C104	Vi377400	C. EL	4.7uF	63V
	C105	VE551900	C. CE	100pF	50V
	C106	VE551900	C. CE	100pF	50V
	C107	FG212220	C. CE	220pF	50V
	C108	FG212220	C. CE	220pF	50V
	C109	VG290500	C. EL	1uF	50V
	C110	VG290500	C. EL	1uF	50V
	C111	Fi550200	C. CE	2pF	50V
	C112	Fi550200	C. CE	2pF	50V
	C113	VG288900	C. EL	100uF	25V
	C114	VG288900	C. EL	100uF	25V
	C115	UA654470	C. MYLAR	0.047uF	50V
	C116	UA654470	C. MYLAR	0.047uF	50V
	C117	UA654120	C. MYLAR	0.012uF	50V
	C118	UA654120	C. MYLAR	0.012uF	50V
	C119	FG212220	C. CE	220pF	50V
	C120	FG212220	C. CE	220pF	50V
	C121	Vi377400	C. EL	4.7uF	63V
	C122	Vi377400	C. EL	4.7uF	63V
	C123	VK534000	C. PP	220pF	200V
	C124	VK534000	C. PP	220pF	200V
	C127	VG291200	C. EL	47uF	50V
	C128	VG291200	C. EL	47uF	50V
	C129	FU451100	C. MICA	10pF	500V
	C130	FU451100	C. MICA	10pF	500V
	C131	FU450500	C. MICA	5pF	500V
	C132	FU450500	C. MICA	5pF	500V
	C133	VG291200	C. EL	47uF	50V
	C134	VG291200	C. EL	47uF	50V
	C135	VK533800	C. PP	47pF	200V
	C136	VK533800	C. PP	47pF	200V
	C137	VG291200	C. EL	47uF	50V
	C138	VG291200	C. EL	47uF	50V

△

△

Schm

Ref. PART NO. Description

	C139	VK533800	C. PP	47pF	200V
	C140	VK533800	C. PP	47pF	200V
	C141	UJ895220	C. EL	0.22uF	100V
	C142	VG290600	C. EL	2.2uF	50V
	C143	UA654470	C. MYLAR	0.047uF	50V
	C144	UA654470	C. MYLAR	0.047uF	50V
	C151	VK347900	C. EL	470uF	63V
	C156	Vi377400	C. EL	4.7uF	63V
	C157	Vi377400	C. EL	4.7uF	63V
	C159	VE551900	C. CE	100pF	50V
	C160	VE551900	C. CE	100pF	50V
	C162	FG212220	C. CE	220pF	50V
	C163	FG212220	C. CE	220pF	50V
	C165	VG291200	C. EL	47uF	50V
	C166	VG291200	C. EL	47uF	50V
	C168	VG289700	C. EL	470uF	35V
	C169	VN011900	C. EL	100uF	35V
	C170	Fi551100	C. CE	10pF	50V
	C171	Fi551100	C. CE	10pF	50V
	C173	UA654470	C. MYLAR	0.047uF	50V
	C174	UA654470	C. MYLAR	0.047uF	50V
	C175	UA654470	C. MYLAR	0.047uF	50V
	C176	VG290500	C. EL	1uF	50V
	C177	VG290500	C. EL	1uF	50V
	C178	VF760000	C. EL	100uF	10V
	C179	VG291200	C. EL	47uF	50V
	C180	VG291200	C. EL	47uF	50V
	C181	VG288900	C. EL	100uF	25V
	C182	VG288900	C. EL	100uF	25V
	C183	VG289400	C. EL	3300uF	25V
	C184	VG289200	C. EL	470uF	25V
	C186	VL544800	C. EL	3300uF	35V
	C187	VL544800	C. EL	3300uF	35V
	C188	VK574700	C. EL	6800uF	56V
	C189	VK574700	C. EL	6800uF	56V
	C190	UG444100	C. CE	0.01uF	50V
	C191	VK534400	C. PP	0.047uF	100V
	C192	VK534400	C. PP	0.047uF	100V
	C193	VG291200	C. EL	47uF	50V
	C194	VG287100	C. EL	470uF	10V
	C194	VG291200	C. EL	47uF	50V
	C195	VG291200	C. EL	47uF	50V
	C196	VG290900	C. EL	10uF	50V
	C205	VG288900	C. EL	100uF	25V
	C206	Ui377470	C. EL	47uF	63V
	C207	VG290900	C. EL	10uF	50V
	C208	VG289200	C. EL	470uF	25V
	C208	V0030500	C. EL	220uF	63V
	C209	UG444100	C. CE	0.01uF	50V
	C210	Fi553100	C. CE	1000pF	50V
	C211	Fi514100	C. CE, SAFTY	0.01uF	VA-1
	C211	VC921400	C. CE, SAFTY	0.01uF	400V
	C212	VG290000	C. EL	0.1uF	50V

*New Parts (新規部品)

MAIN P. C. B.

Schm	Ref.	PART NO.	Description
C213	VG288900	C. EL	100uF 25V
C230	VJ599100	C. CE. TUBLR	0.1uF 50V
C231	VJ599100	C. CE. TUBLR	0.1uF 50V
C232	VJ599100	C. CE. TUBLR	0.1uF 50V
C235	VG287100	C. EL	470uF 10V
D101	VG441000	DIODE. ZENR	MTZJ16A 16V
D102	VG441000	DIODE. ZENR	MTZJ16A 16V
D103	VC398400	DIODE	MA185
D104	VC398400	DIODE	MA185
D105	VC398400	DIODE	MA185
D106	iF004600	DIODE	1SS133
D107	iF004600	DIODE	1SS133
D108	iF004600	DIODE	1SS133
D109	iF004600	DIODE	1SS133
D110	iF004600	DIODE	1SS133
D111	iF004600	DIODE	1SS133
D112	iF004600	DIODE	1SS133
D113	iF004600	DIODE	1SS133
D114	VG435800	DIODE. ZENR	MTZJ3.0A 3.0V
D115	VG439600	DIODE. ZENR	MTZJ10C 10V
D116	VG440300	DIODE. ZENR	MTZJ12C 12V
D117	VH770800	DIODE	1SR139-100 T-32
D118	VH770800	DIODE	1SR139-100 T-32
D119	VH770800	DIODE	1SR139-100 T-32
D120	VH770800	DIODE	1SR139-100 T-32
D122	VM559200	DIODE. BRG	D3SB20-4001 2.3A
D123	iH001090	DIODE. BRG	S4VB20 2.6A 200V
D124	VG439600	DIODE. ZENR	MTZJ10C 10V
D125	iF004600	DIODE	1SS133
D126	VG437900	DIODE. ZENR	MTZJ6.2A 6.2V
D127	VC398400	DIODE	MA185
D128	VG440900	DIODE. ZENR	MTZJ15C 15V
D129	VH770800	DIODE	1SR139-100 T-32
D130	VG437900	DIODE. ZENR	MTZJ6.2A 6.2V
D131	iF004600	DIODE	1SS133
D132	VC398400	DIODE	MA185
F101	KB000750	FUSE. MNI	T2A 250V
F101	KB001250	FUSE	6A 250V
F101	KB001280	FUSE	6A 250V
F103	KB003160	FUSE	3A 250V
IC101	XA956A00	IC	NJM2068S
* IC102	XL972A00	IC	STK401-040
JK101	VM929600	JACK. PHONE	M1658-A0AA
JK102	VJ726800	JACK. MNI	
JK103	VK480600	AC OUTLET	
L101	VC401100	COIL. OUTPT	1.5uH
L102	VC401100	COIL. OUTPT	1.5uH
PJ101	LB401090	JACK. PIN	4P
Q101	VK432900	TR	2SD1915(F) S,T
Q102	VK432900	TR	2SD1915(F) S,T
Q103	iA097000	TR	2SA970 GR,BL
Q104	iA097000	TR	2SA970 GR,BL
Q105	iA097000	TR	2SA970 GR,BL

*New Parts (新規部品)

Schm	Ref.	PART NO.	Description
Q106	iA097000	TR	2SA970 GR,BL
Q107	VE198800	TR	2SC2705 O,Y
Q108	VE198800	TR	2SC2705 O,Y
Q109	iC260320	TR	2SC2603 E,F
Q110	iC260320	TR	2SC2603 E,F
Q111	iC342100	TR	2SC3421 O,Y
Q112	iA135800	TR	2SA1358 O,Y
Q113	iC342100	TR	2SC3421 O,Y
Q114	iA135800	TR	2SA1358 O,Y
# Q115	iX620980	TR	2SC3855 O,P,Y
# Q116	iX620970	TR	2SA1491 O,P,Y
# Q117	iX620980	TR	2SC3855 O,P,Y
# Q118	iX620970	TR	2SA1491 O,P,Y
Q119	iA097000	TR	2SA970 GR,BL
Q120	iE101290	FET	2SK105 H,J
Q121	iC224030	TR	2SC2240 GR,BL
Q122	iC224030	TR	2SC2240 GR,BL
Q125	VK432900	TR	2SD1915(F) S,T
Q126	VK432900	TR	2SD1915(F) S,T
Q128	iC1815C0	TR	2SC1815 Y
Q129	iC1815C0	TR	2SC1815 Y
Q130	iC1815C0	TR	2SC1815 Y
Q131	iC224030	TR	2SC2240 GR,BL
Q132	iC224030	TR	2SC2240 GR,BL
Q133	iC1815C0	TR	2SC1815 Y
Q134	VK432900	TR	2SD1915(F) S,T
Q135	VC938500	TR	2SC3852
Q136	VC614000	TR	2SB1274 Q,R,S
Q137	iC342100	TR	2SC3421 O,Y
Q138	VC938500	TR	2SC3852
Q139	iB056020	TR	2SB560 E,F
Q140	VF331200	TR. DGT	DTC124ES
Q141	iB056020	TR	2SB560 E,F
Q142	iC1815C0	TR	2SC1815 Y
Q143	iC257700	TR	2SC2577 O,P,Y
Q144	iC1815C0	TR	2SC1815 Y
R121	HV456150	R. CAR. FP	1.5KΩ 1/4W
R122	HV456150	R. CAR. FP	1.5KΩ 1/4W
R149	HV455100	R. CAR. FP	100Ω 1/4W
R150	HV455100	R. CAR. FP	100Ω 1/4W
R151	HV454220	R. CAR. FP	22Ω 1/4W
R153	HV455330	R. CAR. FP	330Ω 1/4W
R154	HV455330	R. CAR. FP	330Ω 1/4W
R155	VJ695400	R. WW	0.22Ω x2 3W
R156	VJ695400	R. WW	0.22Ω x2 3W
R167	HV453470	R. CAR. FP	4.7Ω 1/4W
R168	HV453470	R. CAR. FP	4.7Ω 1/4W
R173	HV454100	R. CAR. FP	10Ω 1/4W
R174	HV454100	R. CAR. FP	10Ω 1/4W
R179	HL215390	R. MTL. OXD	390Ω 1W
R180	HL215390	R. MTL. OXD	390Ω 1W
R197	HV455100	R. CAR. FP	100Ω 1/4W
R198	HV455100	R. CAR. FP	100Ω 1/4W

*New Parts (新規部品)

MAIN & INPUT P. C. B.

RX-V670

Schm	Ref.	PART NO.	Description	
	R203	HV453470	R. CAR. FP 4.7Ω 1/4W	△
	R204	HV453470	R. CAR. FP 4.7Ω 1/4W	△
	R205	HV453470	R. CAR. FP 4.7Ω 1/4W	△
	R206	HV453220	R. CAR. FP 2.2Ω 1/4W	△
	R207	HV453220	R. CAR. FP 2.2Ω 1/4W	△
	R220	HL312220	R. MTL. OXD 0.22Ω 1W	△
	R221	HL312220	R. MTL. OXD 0.22Ω 1W	△
	R222	HL322220	R. MTL. OXD 0.22Ω 2W	△
	R223	HV455220	R. CAR. FP 220Ω 1/4W	△
	R223	HV455330	R. CAR. FP 330Ω 1/4W	△
	R225	HV455220	R. CAR. FP 220Ω 1/4W	△
	R225	HV455330	R. CAR. FP 330Ω 1/4W	△
	R232	HV455220	R. CAR. FP 220Ω 1/4W	△
	R232	HV455330	R. CAR. FP 330Ω 1/4W	△
	R241	HV453100	R. CAR. FP 1Ω 1/4W	△
	R242	HV453100	R. CAR. FP 1Ω 1/4W	△
	R251	HV454150	R. CAR. FP 15Ω 1/4W	△
	R266	HV453470	R. CAR. FP 4.7Ω 1/4W	△
	R267	HV453470	R. CAR. FP 4.7Ω 1/4W	△
	R268	HV453470	R. CAR. FP 4.7Ω 1/4W	△
	R269	HV453470	R. CAR. FP 4.7Ω 1/4W	△
	RY101	VK438300	RELAY DH24D2-OTM-II	△
	RY102	VK438300	RELAY DH24D2-OTM-II	△
	RY103	VK438300	RELAY DH24D2-OTM-II	△
	RY104	VD506000	RELAY AC DG12D1-0(M)	△
	SW101	VM807500	SW. PUSH PSK023CF2KP 2	△
	SW102	VA961800	VOLT. SELECT ESE-37247-F(R)	△
	T101	XC082A00	TRANS. PWR	△
	T101	XC083A00	TRANS. PWR	△
	T101	XC084A00	TRANS. PWR	△
	TE101	VG741600	TERM. SP 8P	△
	TE104	VE225700	CN. BS. PIN 2P P=7.5	
	TE104	VG879900	CN. BS. PIN VH 2P TE	
	VR101	VM929800	VR B50KΩ	
	VR102	VM929800	VR B50KΩ	
	VR103	VK314700	VR MN100KΩ	
	VR104	VJ692800	VR. TRIM B470Ω	
	VR105	VJ692800	VR. TRIM B470Ω	
		VB966900	CN. IMSA-6024	
		VJ828000	PIN IMSA-6024-03E	
		CB091290	SUPRT. PCB No. 1645	
		BB069510	GND. MTL No. 6951	
*		VP753100	HEAT. SINK IC-1625-MML	
		EX602250	SCR. BND. HD 3x12 ZMC2-BL	
*		VP832700	P. C. B. INPUT(UC)	
*		VP832800	P. C. B. INPUT(R)	
*		VP832900	P. C. B. INPUT(A)	
	CB701	VM689400	CN 5062 15P TE	
	CB702	VM929900	CN. BS. PIN 52044 15P TE	
	CB703	VF982200	CN. BS. PIN FPC 14P SE	
	CB704	VB858200	CN. BS. PIN PH L-TYPE 3P SE	

Schm	Ref.	PART NO.	Description	
	CB705	VB858300	CN. POST PH 4P SE	
	CB706	VF982200	CN. BS. PIN FPC 14P SE	
	CB709	VB858200	CN. BS. PIN PH L-TYPE 3P SE	
	CB711	VB858400	CN. BS. PIN PH L-TYPE 5P SE	
	CB712	VB858200	CN. BS. PIN PH L-TYPE 3P SE	
	CB713	VB858400	CN. BS. PIN PH L-TYPE 5P SE	
	CB715	VB858300	CN. POST PH 4P SE	
	CB717	LB919030	CN. BS. PIN XH L-TYPE 3P SE	
	CB720	VM859500	CN. BS. PIN 52045 11P TE	
	CB721	VM859700	CN. BS. PIN 52045 16P TE	
	C703	VG290300	C. EL 0.47uF 50V	
	C704	VF466900	C. CE. TUBLR 470pF 50V	
	C705	VF466900	C. CE. TUBLR 470pF 50V	
	C708	VF466900	C. CE. TUBLR 470pF 50V	
	C709	VF466900	C. CE. TUBLR 470pF 50V	
	C710	VF466900	C. CE. TUBLR 470pF 50V	
	C711	VF466900	C. CE. TUBLR 470pF 50V	
	C712	VF466900	C. CE. TUBLR 470pF 50V	
	C713	VF466900	C. CE. TUBLR 470pF 50V	
	C714	VF466900	C. CE. TUBLR 470pF 50V	
	C715	VF466900	C. CE. TUBLR 470pF 50V	
	C716	VF466900	C. CE. TUBLR 470pF 50V	
	C717	VF466900	C. CE. TUBLR 470pF 50V	
	C718	VF466900	C. CE. TUBLR 470pF 50V	
	C719	VF466900	C. CE. TUBLR 470pF 50V	
	C720	VF466900	C. CE. TUBLR 470pF 50V	
	C721	VF466900	C. CE. TUBLR 470pF 50V	
	C722	VG290500	C. EL 1uF 50V	
	C723	VG286900	C. EL 220uF 10V	
	C724	UA654330	C. MYLAR 0.033uF 50V	
	C725	UA653910	C. MYLAR 9100pF 50V	
	C726	VG278400	C. CE. TUBLR 220pF 50V	
	C727	VG278400	C. CE. TUBLR 220pF 50V	
	C728	UA654330	C. MYLAR 0.033uF 50V	
	C729	UA653910	C. MYLAR 9100pF 50V	
	C730	VG286900	C. EL 220uF 10V	
	C731	VG290500	C. EL 1uF 50V	
	C732	Vi309200	C. EL 1000uF 10V	
	C733	Vi309200	C. EL 1000uF 10V	
	C734	Vi309200	C. EL 1000uF 10V	
	C735	VG290600	C. EL 2.2uF 50V	
	C736	VG288900	C. EL 100uF 25V	
	C737	VG288900	C. EL 100uF 25V	
	C738	VG290600	C. EL 2.2uF 50V	
	C739	VG291200	C. EL 47uF 50V	
	C740	VG291200	C. EL 47uF 50V	
	C741	VG291200	C. EL 47uF 50V	
	C742	VG290900	C. EL 10uF 50V	
	C743	VG290900	C. EL 10uF 50V	
	C744	VG287100	C. EL 470uF 10V	
	C745	VG287100	C. EL 470uF 10V	
*	C746	VN508100	C. EL 47uF 6.3V	
	C747	VG290500	C. EL 1uF 50V	

INPUT P. C. B.

Schm	Ref.	PART NO.	Description	
C748	VG290500	C. EL	1uF	50V
C755	VG291000	C. EL	22uF	50V
C756	VG288900	C. EL	100uF	25V
C757	VG288900	C. EL	100uF	25V
C758	VG291000	C. EL	22uF	50V
C759	VG290500	C. EL	1uF	50V
C760	VG290500	C. EL	1uF	50V
C761	VG290500	C. EL	1uF	50V
C764	VF466800	C. CE, TUBLR	100pF	50V
C765	VG291200	C. EL	47uF	50V
C766	VG291200	C. EL	47uF	50V
C767	VF466800	C. CE, TUBLR	100pF	50V
C768	VG291200	C. EL	47uF	50V
C769	VG291200	C. EL	47uF	50V
C770	VG291200	C. EL	47uF	50V
C771	VG291200	C. EL	47uF	50V
C772	VF466800	C. CE, TUBLR	100pF	50V
C783	VG291200	C. EL	47uF	50V
C784	VG291200	C. EL	47uF	50V
C785	VG291200	C. EL	47uF	50V
C786	VG291200	C. EL	47uF	50V
C787	VG291200	C. EL	47uF	50V
C788	VG291200	C. EL	47uF	50V
C789	VG291200	C. EL	47uF	50V
C790	VG291200	C. EL	47uF	50V
C791	VG291200	C. EL	47uF	50V
C792	VG291200	C. EL	47uF	50V
C793	VG291200	C. EL	47uF	50V
C794	VG291200	C. EL	47uF	50V
C795	VG290900	C. EL	10uF	50V
C802	VG291200	C. EL	47uF	50V
C803	VG291200	C. EL	47uF	50V
C814	VG291000	C. EL	22uF	50V
C825	VG290500	C. EL	1uF	50V
C826	VG290300	C. EL	0.47uF	50V
C827	VJ599100	C. CE, TUBLR	0.1uF	50V
C828	VC613700	C. EL	4700uF	5.5V
C829	VF760000	C. EL	100uF	10V
C830	VF760000	C. EL	100uF	10V
C834	VF467300	C. CE, TUBLR	0.01uF	16V
C835	UG444100	C. CE	0.01uF	50V
C836	VF760000	C. EL	100uF	10V
C846	VF466800	C. CE, TUBLR	100pF	50V
C847	VF466800	C. CE, TUBLR	100pF	50V
C848	VF466800	C. CE, TUBLR	100pF	50V
C849	VF467300	C. CE, TUBLR	0.01uF	16V
C850	VG287100	C. EL	470uF	10V
C851	VG287100	C. EL	470uF	10V
D701	iF004600	DIODE	1SS133	
D702	iF004600	DIODE	1SS133	
D703	iF004600	DIODE	1SS133	
D704	iF004600	DIODE	1SS133	
D708	iF004600	DIODE	1SS133	

*New Parts (新規部品)

Schm	Ref.	PART NO.	Description	
D709	iF004600	DIODE	1SS133	
D710	VG437900	DIODE, ZENR	MTZJ6.2A	6.2V
D711	iF004600	DIODE	1SS133	
D712	iF004600	DIODE	1SS133	
D713	iF004600	DIODE	1SS133	
D714	iF004600	DIODE	1SS133	
D715	iF004600	DIODE	1SS133	
D716	VG437300	DIODE, ZENR	MTZJ5.1A	5.1V
D717	iF004600	DIODE	1SS133	
D718	iF004600	DIODE	1SS133	
D719	iF004600	DIODE	1SS133	
D720	iF004600	DIODE	1SS133	
D721	iF004600	DIODE	1SS133	
D722	iF004600	DIODE	1SS133	
D723	iF004600	DIODE	1SS133	
D724	VG439200	DIODE, ZENR	MTZJ9.1B	9.1V
D725	iF004600	DIODE	1SS133	
D726	VG437300	DIODE, ZENR	MTZJ5.1A	5.1V
IC701	XB247301	IC	uPC4570HA	
IC703	iG037400	IC	uPD4066BC	
IC704	iG037400	IC	uPD4066BC	
IC705	iG037400	IC	uPD4066BC	
IC706	iG037400	IC	uPD4066BC	
IC707	iG037400	IC	uPD4066BC	
IC708	iG037400	IC	uPD4066BC	
IC709	XB247301	IC	uPC4570HA	
IC711	XA549A00	IC	LB1294	
IC715	XB247301	IC	uPC4570HA	
IC716	XB247301	IC	uPC4570HA	
IC717	XB247301	IC	uPC4570HA	
IC718	XB247301	IC	uPC4570HA	
IC720	XB247301	IC	uPC4570HA	
IC721	XE536001	IC	LC7535	
IC724	XE536001	IC	LC7535	
IC729	iG157200	IC	AN78L05	
IC732	XF494A00	IC	LB1641	
IC733	XK656B00	IC	M50747-2E8SP	
IC734	XA507A00	IC	AN78N05	
L705	VC793700	COIL	1.5uH	
L706	VC793700	COIL	1.5uH	
L707	VC793700	COIL	1.5uH	
L708	VE354700	COIL	560uH	EL0606RA
L709	VE354700	COIL	560uH	EL0606RA
PJ701	VM725700	JACK, PIN	2P	
PJ703	VM725700	JACK, PIN	2P	
PJ707	VM725800	JACK, PIN	4P	
PJ711	VM726000	JACK, PIN	6P	
PJ717	VM725800	JACK, PIN	4P	
PJ721	VJ695800	JACK, PIN	3P	
PJ724	VJ695900	JACK, PIN	3P	
PJ725	VN134700	JACK, PIN	YKC21-3040	
Q701	VG722000	TR, DGT	DTC144ES	
Q702	VG722000	TR, DGT	DTC144ES	

*New Parts (新規部品)

INPUT & DSP P. C. B.

Schm	Ref.	PART NO.	Description	
	Q703	VG722000	TR. DGT	DTC144ES
	Q704	1A101521	TR	2SA1015 Y
	Q705	1C1815C0	TR	2SC1815 Y
	Q706	1A101521	TR	2SA1015 Y
	Q707	1C1815C0	TR	2SC1815 Y
	Q708	1A101521	TR	2SA1015 Y
	Q709	1C1815C0	TR	2SC1815 Y
	Q710	VG722000	TR. DGT	DTC144ES
	Q711	VG722000	TR. DGT	DTC144ES
	Q712	VH964100	TR. DGT	DTA143ES
	Q713	VG722000	TR. DGT	DTC144ES
	Q715	VC218700	TR	2SA1317 R,S,T
	Q716	VC218700	TR	2SA1317 R,S,T
	Q717	VG722000	TR. DGT	DTC144ES
	Q718	VC218900	TR	2SC3330 R,S,T
	R837	HV454100	R. CAR. FP	10Ω 1/4W
	R853	HV454100	R. CAR. FP	10Ω 1/4W
	R885	HV454100	R. CAR. FP	10Ω 1/4W
	R886	HV454100	R. CAR. FP	10Ω 1/4W
	R888	HV454100	R. CAR. FP	10Ω 1/4W
	R889	HV454100	R. CAR. FP	10Ω 1/4W
	R894	VF824300	R. ARRAY	100KΩ x8
	TE701	Vi072500	TERM	4P
	TE702	Vi072400	TERM. SP	2P
	VR701	VM929700	VR. MTR	100KYΩ x5
	W711	VN023700	CN. FLAT	15P 90mm
	XL701	VE222400	RSNR. CE	8MHz
		BB071360	SCR. TERM	8. 3x13
		AA615100	PLATE	20x30
		VN571800	PLATE	
		VB966900	CN	IMSA-6024
		VM675700	P.C.B.	DSP
	CB506	VB858700	CN. BS. PIN	PH 8P SE
	C501	VG278100	C. CE. TUBLR	120pF 50V
	C502	VG278100	C. CE. TUBLR	120pF 50V
	C503	VG278100	C. CE. TUBLR	120pF 50V
	C504	VG287100	C. EL	470uF 10V
	C505	VG289000	C. EL	220uF 25V
	C506	VD930900	C. CE. SMI	0. 1uF 25V
	C507	VG287800	C. EL	330uF 16V
	C508	VG291200	C. EL	47uF 50V
	C509	VD930900	C. CE. SMI	0. 1uF 25V
	C510	VG291200	C. EL	47uF 50V
	C511	VD930900	C. CE. SMI	0. 1uF 25V
	C512	VD930900	C. CE. SMI	0. 1uF 25V
	C513	VG291200	C. EL	47uF 50V
	C514	UT653330	C. PP	3300pF 100V
	C515	UT653330	C. PP	3300pF 100V
	C516	VG278100	C. CE. TUBLR	120pF 50V
	C517	VG278100	C. CE. TUBLR	120pF 50V
	C518	VG278100	C. CE. TUBLR	120pF 50V

Schm	Ref.	PART NO.	Description	
	C519	VG278100	C. CE. TUBLR	120pF 50V
	C520	VG278100	C. CE. TUBLR	120pF 50V
	C521	VG291200	C. EL	47uF 50V
	C522	VG291200	C. EL	47uF 50V
	C523	VG290600	C. EL	2. 2uF 50V
	C524	VG290600	C. EL	2. 2uF 50V
	C525	VG291200	C. EL	47uF 50V
	C526	VG291200	C. EL	47uF 50V
	C527	VG291200	C. EL	47uF 50V
	C528	FG211330	C. CE	33pF 50V
	C529	VE551900	C. CE	100pF 50V
	C530	VE551900	C. CE	100pF 50V
	C531	FG211330	C. CE	33pF 50V
	C532	FG211330	C. CE	33pF 50V
	C533	VE551900	C. CE	100pF 50V
	C534	VE551900	C. CE	100pF 50V
	C535	FG211330	C. CE	33pF 50V
	C536	VE551900	C. CE	100pF 50V
	C537	VE551900	C. CE	100pF 50V
	C538	FG212330	C. CE	330pF 50V
	C539	VG291200	C. EL	47uF 50V
	C540	VG291200	C. EL	47uF 50V
	C541	FG212330	C. CE	330pF 50V
	C542	FG212330	C. CE	330pF 50V
	C543	UA655180	C. MYLAR	0. 18uF 50V
	C544	VG291200	C. EL	47uF 50V
	C545	VG291200	C. EL	47uF 50V
	C546	UA653240	C. MYLAR	2400pF 50V
	C547	UA653240	C. MYLAR	2400pF 50V
	C548	VG291200	C. EL	47uF 50V
	C549	VG291200	C. EL	47uF 50V
	C550	UA653270	C. MYLAR	2700pF 50V
	C551	UA653270	C. MYLAR	2700pF 50V
	C552	VG291200	C. EL	47uF 50V
	C553	Fi553330	C. CE	3300pF 50V
	C554	VG291200	C. EL	47uF 50V
	C555	UG412180	C. CE	180pF 50V
	C556	UG412180	C. CE	180pF 50V
	C557	VG291200	C. EL	47uF 50V
	C558	Fi553330	C. CE	3300pF 50V
	C559	FG213680	C. CE	6800pF 50V
	C560	VG290600	C. EL	2. 2uF 50V
	C561	FG212390	C. CE	390pF 50V
	C562	FG212390	C. CE	390pF 50V
	C563	VG290600	C. EL	2. 2uF 50V
	C564	FG213680	C. CE	6800pF 50V
	C565	VG291200	C. EL	47uF 50V
	C566	VG291200	C. EL	47uF 50V
	C567	FG212330	C. CE	330pF 50V
	C568	VG291200	C. EL	47uF 50V
	C569	VG291200	C. EL	47uF 50V
	C570	VE551900	C. CE	100pF 50V
	C571	VE551900	C. CE	100pF 50V

DSP & TUNER P. C. B.

Schm Ref.	PART NO.	Description
C572	VG291200 C. EL	47uF 50V
C573	VG291200 C. EL	47uF 50V
C574	VG291200 C. EL	47uF 50V
C575	VG291200 C. EL	47uF 50V
C576	VG291200 C. EL	47uF 50V
C577	VG291200 C. EL	47uF 50V
C578	VG291200 C. EL	47uF 50V
C579	VG287100 C. EL	470uF 10V
C580	UG412150 C. CE	150pF 50V
C581	UG412150 C. CE	150pF 50V
C582	VG291200 C. EL	47uF 50V
C583	VG291200 C. EL	47uF 50V
C584	VG278100 C. CE. TUBLR	120pF 50V
C585	VG278100 C. CE. TUBLR	120pF 50V
C586	VG278100 C. CE. TUBLR	120pF 50V
C587	VG291200 C. EL	47uF 50V
C588	VG291200 C. EL	47uF 50V
C589	VG278100 C. CE. TUBLR	120pF 50V
C590	VG278100 C. CE. TUBLR	120pF 50V
C591	VG278100 C. CE. TUBLR	120pF 50V
C592	VG278100 C. CE. TUBLR	120pF 50V
C593	VG278100 C. CE. TUBLR	120pF 50V
C594	VG278100 C. CE. TUBLR	120pF 50V
C595	VG278100 C. CE. TUBLR	120pF 50V
C596	VG278900 C. CE. TUBLR	680pF 50V
C597	VG290900 C. EL	10uF 50V
C598	VG291200 C. EL	47uF 50V
C599	VG291200 C. EL	47uF 50V
C600	VD930900 C. CE. SMI	0.1uF 25V
D501	1F004600 DIODE	1SS133
D502	1F004600 DIODE	1SS133
D503	1F004600 DIODE	1SS133
D504	1F004600 DIODE	1SS133
D505	1F004600 DIODE	1SS133
D506	1F004600 DIODE	1SS133
D507	1F004600 DIODE	1SS133
D508	1F004600 DIODE	1SS133
D509	1F004600 DIODE	1SS133
F1501	VK175000 FLTR. LC	18KHz TFB-2D
F1502	VK175000 FLTR. LC	18KHz TFB-2D
IC501	Xi020A00 IC	HM65256BLFP-10T
IC502	XA507A00 IC	AN78N05
IC503	Xi022A00 IC	YSS203(HLDSP)
IC504	XB247301 IC	uPC4570HA
IC505	XB247301 IC	uPC4570HA
IC506	XC520A01 IC	uPC4570C
IC507	XC520A01 IC	uPC4570C
IC508	XB247301 IC	uPC4570HA
IC509	XB979A00 IC	M5238P
IC510	XC520A01 IC	uPC4570C
IC511	XC520A01 IC	uPC4570C
IC512	XB247301 IC	uPC4570HA
IC513	XB247301 IC	uPC4570HA

*New Parts (新規部品)

Schm Ref.	PART NO.	Description
IC514	XB979A00 IC	M5238P
IC515	XC520A01 IC	uPC4570C
IC516	XE536001 IC	LC7535
IC517	XG758A00 IC	LC7823N
IC518	XB247301 IC	uPC4570HA
IC519	XB417A00 IC	LC7582
L501	Vi546100 COIL	220uH
R590	HV454220 R. CAR. FP	22Ω 1/4W
V501	VJ805700 LCD	LCD-8160B1JP
XL501	VK175200 RSNR. CE	11.28MHz
	VJ835300 LAMP	115mA 14.5V
	VB966900 CN	IMSA-6024
	VG433100 REFLC	LCD
	VG433300 SHEET	LCD
	VF444500 CAP. LAMP	AG-4015
	CB605620 PLST. RIVET	No. 1781
	Vi435400 GND. MTL	
	VG650400 RING	
	VM675300 P. C. B.	TUNER(UC)
	VM675400 P. C. B.	TUNER(R)
	VM675500 P. C. B.	TUNER(AB)
C1	VG287800 C. EL	330uF 16V
C2	VG280100 C. CE. TUBLR	0.022uF 25V
C3	VJ599000 C. CE. TUBLR	0.047uF 16V
C4	VG290900 C. EL	10uF 50V
C5	VF467300 C. CE. TUBLR	0.01uF 16V
C6	VG288900 C. EL	100uF 25V
C7	VG290500 C. EL	1uF 50V
C8	VF467300 C. CE. TUBLR	0.01uF 16V
C9	VF467300 C. CE. TUBLR	0.01uF 16V
C10	VF467300 C. CE. TUBLR	0.01uF 16V
C11	VF467000 C. CE. TUBLR	1000pF 50V
C12	VG290900 C. EL	10uF 50V
C13	VG290900 C. EL	10uF 50V
C14	VF467000 C. CE. TUBLR	1000pF 50V
C15	VF467000 C. CE. TUBLR	1000pF 50V
C16	VF466700 C. CE. TUBLR	47pF 50V
C17	VG288900 C. EL	100uF 25V
C18	UA655100 C. MYLAR	0.1uF 50V
C19	VA761200 C. CE	33pF 50V
C20	VG290900 C. EL	10uF 50V
C21	VF466800 C. CE. TUBLR	100pF 50V
C22	VG290600 C. EL	2.2uF 50V
C23	VF467300 C. CE. TUBLR	0.01uF 16V
C24	Vi377400 C. EL	4.7uF 63V
C25	VG290700 C. EL	3.3uF 50V
C26	VG290900 C. EL	10uF 50V
C27	VF467300 C. CE. TUBLR	0.01uF 16V
C28	VA761200 C. CE	33pF 50V
C29	VG290500 C. EL	1uF 50V
C30	VG290500 C. EL	1uF 50V

*New Parts (新規部品)

TUNER & OPERATION P. C. B.

RX-V670

Schm	Ref.	PART NO.	Description
C31	VG290900	C. EL	10uF 50V
C32	VG290300	C. EL	0.47uF 50V
C33	VG290500	C. EL	1uF 50V
C34	UA654470	C. MYLAR	0.047uF 50V
C35	VD916400	C. EL	2.2uF 50V
C36	UT452470	C. PP	470pF 100V
C36	UT452680	C. PP	680pF 100V
C37	UT452470	C. PP	470pF 100V
C37	UT452680	C. PP	680pF 100V
C38	VF466900	C. CE, TUBLR	470pF 50V
C39	VG290900	C. EL	10uF 50V
C40	VG290500	C. EL	1uF 50V
C41	UA653270	C. MYLAR	2700pF 50V
C42	VG290900	C. EL	10uF 50V
C43	UA653270	C. MYLAR	2700pF 50V
C44	VG290500	C. EL	1uF 50V
C45	UA653100	C. MYLAR	1000pF 50V
C46	UA653330	C. MYLAR	3300pF 50V
C47	UA653330	C. MYLAR	3300pF 50V
C48	UA653100	C. MYLAR	1000pF 50V
C49	VJ599000	C. CE, TUBLR	0.047uF 16V
C50	FG211680	C. CE	68pF 50V
C51	FG211680	C. CE	68pF 50V
C52	FG211680	C. CE	68pF 50V
CB1	VD004600	CN, BS, PIN	PH i-TYPE 3P TE
CB2	VD004900	CN, BS, PIN	PH i-TYPE 6P TE
CB3	VD005000	CN, BS, PIN	PH i-TYPE 7P TE
D1	iF004600	DIODE	1SS133
D2	iF004600	DIODE	1SS133
Fi1	GG000560	FLTR. CE	SFE10.7MS3GHY-A
Fi2	GG000560	FLTR. CE	SFE10.7MS3GHY-A
Fi3	VC219000	FLTR. CE	SFZ450JL3
IC1	XB760001	IC	LA1266
IC2	XB818A00	IC	LM7000N
IC3	iG158100	IC	LA3401
L1	Vi546100	COIL	220uH
L2	Vi546100	COIL	220uH
L3	Vi546100	COIL	220uH
L4	GE901850	COIL	39mH
L5	GE901850	COIL	39mH
PK1	VK208500	TUNER. PK	TFFG1U145A
PK2	Vi027300	COIL. AM	
Q1	VB433300	TR	2SC1809 M,N,P
Q2	VC218900	TR	2SC3330 R,S,T
Q3	VC218900	TR	2SC3330 R,S,T
Q4	VB433300	TR	2SC1809 M,N,P
Q5	VC218700	TR	2SA1317 R,S,T
Q6	VC218900	TR	2SC3330 R,S,T
SW1	VF541200	SW. SLIDE	SSSF11
T1	VC218600	COIL. DT. FM	10.7MHz
T2	GE100470	COIL. IF. AM	450KHz
TE1	LA005800	TERM. ANT	YKD31-0215
VR1	VJ694000	VR. TRIM	B47KΩ

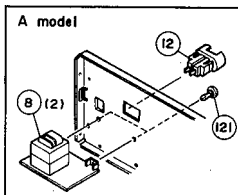
Schm	Ref.	PART NO.	Description
VR2	VJ694000	VR. TRIM	B47KΩ
XL1	QU003800	RSNR. CRY	7.2MHz
XL2	GG000750	RSNR. CE	18.95MHz
	BB071360	SCR. TERM	8.3x13
* VP834100 P.C.B. OPERATION			
CB351	VM689200	CN	5062 11P TE
CB352	VM689500	CN	5062 16P TE
CB365	VD004600	CN, BS, PIN	PH i-TYPE 3P TE
CB366	LA002330	TERM. WRAP	4P i-754NA
C365	VG291300	C. EL	100uF 50V
C366	Vi377400	C. EL	4.7uF 63V
C367	VE551900	C. CE	100pF 50V
C368	VG291000	C. EL	22uF 50V
C369	UA653330	C. MYLAR	3300pF 50V
C370	FG212220	C. CE	220pF 50V
C371	Fi551100	C. CE	10pF 50V
C372	VG291000	C. EL	22uF 50V
C373	VG288900	C. EL	100uF 25V
C374	VK533800	C. PP	47pF 200V
C375	UA655100	C. MYLAR	0.1uF 50V
C376	VK533800	C. PP	47pF 200V
C377	VG290900	C. EL	10uF 50V
C378	VG290900	C. EL	10uF 50V
D353	iF004600	DIODE	1SS133
D354	iF004600	DIODE	1SS133
D355	iF004600	DIODE	1SS133
D356	iF004600	DIODE	1SS133
D357	iF004600	DIODE	1SS133
D358	Vi013600	LED	SLR-34VC3H3 (re)
D359	Vi013600	LED	SLR-34VC3H3 (re)
D360	VF402500	LED	SLR-34DC3H3 (or)
D361	Vi013600	LED	SLR-34VC3H3 (re)
D362	VF402500	LED	SLR-34DC3H3 (or)
D363	VF402500	LED	SLR-34DC3H3 (or)
D364	VF402500	LED	SLR-34DC3H3 (or)
Q365	iC224030	TR	2SC2240 GR,BL
Q366	VK432900	TR	2SD1915(F) S,T
Q367	iC224030	TR	2SC2240 GR,BL
Q368	iA097000	TR	2SA970 GR,BL
Q369	iC260310	TR	2SC2603 E,F
Q370	iC342100	TR	2SC3421 O,Y
Q371A	iX620970	TR	2SA1491 O,P,Y
Q371B	iX620980	TR	2SC3855 O,P,Y
Q373	iA135800	TR	2SA1358 O,Y
R367	HV456150	R. CAR. FP	1.5KΩ 1/4W
R369	HV456100	R. CAR. FP	1KΩ 1/4W
R374	HV454100	R. CAR. FP	10Ω 1/4W
R375	HV456270	R. CAR. FP	2.7KΩ 1/4W
R376	HV455820	R. CAR. FP	820Ω 1/4W
R380	HV453470	R. CAR. FP	4.7Ω 1/4W

OPERATION P. C. B.

Schm	Ref.	PART NO.	Description	
	R381	HV455470	R. CAR. FP 470 Ω 1/4W	$\triangle$
	R382	VJ787600	R. MTL. PLAT 0.22 Ω +0.22 5W	$\triangle$
	R383	HV453470	R. CAR. FP 4.7 Ω 1/4W	$\triangle$
	R384	HV455100	R. CAR. FP 100 Ω 1/4W	$\triangle$
	SW351	VG392900	SW SKHVAA	
	SW352	VG392900	SW SKHVAA	
	SW353	VG392900	SW SKHVAA	
	SW355	VG392900	SW SKHVAA	
	SW356	VG392900	SW SKHVAA	
	SW357	VG392900	SW SKHVAA	
	SW358	VG392900	SW SKHVAA	
	SW359	VG392900	SW SKHVAA	
	SW360	VG392900	SW SKHVAA	
	SW361	VG392900	SW SKHVAA	
	SW362	VG392900	SW SKHVAA	
	SW363	VG392900	SW SKHVAA	
	SW364	VG392900	SW SKHVAA	
	SW365	VG392900	SW SKHVAA	
	SW366	VG392900	SW SKHVAA	
	SW367	VG392900	SW SKHVAA	
	SW368	VG392900	SW SKHVAA	
	SW369	VG392900	SW SKHVAA	
	SW370	VG392900	SW SKHVAA	
	SW371	VG392900	SW SKHVAA	
	SW372	VG392900	SW SKHVAA	
	SW373	VG392900	SW SKHVAA	
	SW374	VG392900	SW SKHVAA	
	SW375	VG392900	SW SKHVAA	
	SW376	VG392900	SW SKHVAA	
	SW377	VG392900	SW SKHVAA	
	SW378	VG392900	SW SKHVAA	
	SW379	VG392900	SW SKHVAA	
	SW380	VG392900	SW SKHVAA	
	SW381	VG392900	SW SKHVAA	
	SW382	VG392900	SW SKHVAA	
	SW383	VG392900	SW SKHVAA	
	SW384	VG392900	SW SKHVAA	
	SW385	VG392900	SW SKHVAA	
	SW386	VG392900	SW SKHVAA	
	SW387	VG392900	SW SKHVAA	
	SW388	VG392900	SW SKHVAA	
	SW389	VG392900	SW SKHVAA	
	SW390	VG392900	SW SKHVAA	
	U351	VF926500	L. DTCT GP1U501X	
	VR351	VA787500	VR. TRIM B470 Ω	
	W353	VN023600	CN. FLAT 11P 120mm	
	W354	VN023800	CN. FLAT 16P 80mm	

*New Parts (新規部品)

■ EXPLODED VIEW



MECHANICAL PARTS

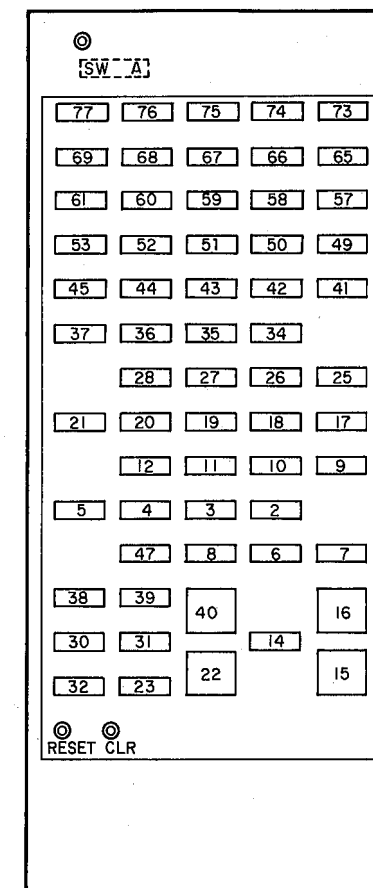
Note) Ø : Diameter

Ref. No.	PART NO.	Description	Remarks	Markets
* 1	VP833600	FRONT PANEL UNIT		
* 1-1	VP770800	FRONT PANEL		
1-2	VJ832800	WINDOW PANEL		
1-3	VH897500	LENS		
1-4	VH897700	LENS		
1-5	VJ833300	BUTTON GUIDE	2P	
2-1	VM738600	FRONT FRAME		
2-2	VK054200	BUTTON CASE		
2-3	CB605620	PLASTIC RIVET	No. 1781	
2-4	Ei330086	BIND HEAD B-TITE SCREW	3x8 FCRM3-BL PACK	
2-5	VF617600	PAN HEAD P-TITE SCREW	2.6x8 FCRM3-BL	
* 2-7	VP834100	P.C.B. ASS'y, OPERATION	OPERATION	
3-1	iX620970	TRANSISTOR	2SA1491 O,P,Y Q116,118	△
3-2	iX620980	TRANSISTOR	2SC3855 O,P,Y Q115,117	△
* 3-4	VP820900	HEAT SINK		
3-5	VK195900	SHEET	19x24	
3-7	VK173200	SCREW, TRANSISTOR	3x15 SP FCM3	
5	VM675300	P.C.B. ASS'y, TUNER	TUNER(UC)	
5	VM675400	P.C.B. ASS'y, TUNER	TUNER(R)	
5	VM675500	P.C.B. ASS'y, TUNER	TUNER(AB)	
6	VM675700	P.C.B. ASS'y, DSP	DSP	
* 7	VP832700	P.C.B. ASS'y, INPUT	INPUT(UC)	
* 7	VP832800	P.C.B. ASS'y, INPUT	INPUT(R)	
* 7	VP832900	P.C.B. ASS'y, INPUT	INPUT(A)	
* 8	VP833000	P.C.B. ASS'y, MAIN	MAIN(U)	
* 8	VP833100	P.C.B. ASS'y, MAIN	MAIN(C)	
* 8	VP833200	P.C.B. ASS'y, MAIN	MAIN(R)	
* 8	VP833300	P.C.B. ASS'y, MAIN	MAIN(A)	
* 10	XL994A00	POWER TRANSFORMER	(U)	△
* 10	XL995A00	POWER TRANSFORMER	(C)	△
* 10	XL996A00	POWER TRANSFORMER	(R)	△
* 10	XL997A00	POWER TRANSFORMER	(A)	△
11	VE222900	POWER CORD ASS'y	(R)	△
11	VL012900	POWER CORD ASS'y	(UC)	△
11	VP418100	POWER CORD ASS'y	(A)	△
12	VP418700	AC OUTLET	2P	△
13	CB069250	BINDING TIE	BK-1	
14	LB101110	SHORT PLUG		
15	VN024000	CONNECTOR, FLAT CABLE	14P 60mm	
101	VM733500	TOP COVER		
102	VM733700	CHASSIS		
103	VM733800	BOTTOM COVER		
104	VM733900	FRAME SIDE L		
105	VM734000	FRAME SIDE R		
106	VQ060200	FRAME, HEAT SINK		
107	VM734200	SHIELD PLATE 1		
108	VM734300	SHIELD PLATE 2		
* 109	VP770900	REAR PANEL	(U)	
* 109	VP771000	REAR PANEL	(C)	
* 109	VP771100	REAR PANEL	(R)	
* 109	VP771200	REAR PANEL	(A)	
110	VK016500	LEG	φ 60/H21	
111	VK015100	KNOB, LED	φ 45	

*New Parts (新規部品)

Ref. No.	PART NO.	Description	Remarks	Markets
112	VP511900	KNOB	φ 16	
113	VM736600	BUTTON	3x14	
114	VK234600	PLATE SIDE		
115	VJ832900	SHEET		
* 116	VP771300	FRAME, TR		
* 117	VQ240800	DAMPER	8x13x20	
120	CB099600	PLASTIC RIVET	No. 920	
121	CB068880	PLASTIC RIVET	No. 1027	
132	VN158600	CORD STOPPER	No. 2104	
150	AA627310	GROUND TERMINAL		
151	VK865300	HEX. HEAD TAP. SCREW WITH WS	3x18 FCRM3-BL	
152	ED330066	BIND HEAD SCREW	3x6 FCRM3-BL PACK	
153	EX601890	BIND HEAD BONDING SCREW	3x6 FCRM3-BL	
154	EN301010	BIND HEAD BONDING TAP. SCREW	3x8 FCRM3-BL	
155	Ei330086	BIND HEAD B-TITE SCREW	3x8 FCRM3-BL PACK	
156	EX600470	BW HEAD TAPPING SCREW	3x8-10 FNM3-3G	
157	EX602240	BW HEAD TAPPING SCREW	3x10	
158	Vi924800	BW HEAD TAPPING SCREW	3x10-8 FCM3	
160	EK365090	BW HEAD SCREW	4x8 ZMC2-BL	
161	EX601850	SPECIAL SCREW S-TITE	4x8-10 FCRM3-BL	
162	VG869500	DAMPER		
163	VH088000	SPACER		
166	CB605620	PLASTIC RIVET	No. 1781	
167	VK173200	SCREW, TRANSISTOR	3x15 SP FCM3	
ACCESSORIES				
* 200	VP794300	REMOTE CONTROL TRANSMITTER		
200-1	CX674400	LID	56x40.5 103RRC-031-02R	
201	VQ042800	LOOP ANTENNA	1P 3.0m	
202	VG850700	ANTENNA, FM	1.4m	
		BATTERY, MANGANESE	SUM-3,AA,R06	

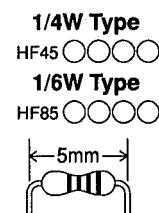
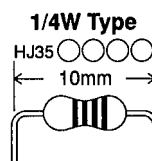
*New Parts (新規部品)



KEY No.	CONTROL CODE	FUNCTION
6	7A-8D	PROGRAM6/PROGRAM8
7	7A-56	EFFECT ON/OFF
38	7A-81	FRONT EFFECT -
39	7A-80	FRONT EFFECT +
40	7A-52	DELAY TIME +
16	7A-1A	MASTER VOLUME +
30	7A-83	CENTER LEVEL -
31	7A-82	CENTER LEVEL +
14	7A-1C	MUTING
32	7A-5F	REAR LEVEL -
23	7A-5E	REAR LEVEL +
22	7A-53	DELAY TIME -
15	7A-1B	MASTER VOLUME -

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	HJ35 3100	HF85 3100	10 k Ω	HF45 7100	HF45 7100
1.8 Ω	HJ35 3180	*	11 k Ω	HF45 7110	HF45 7110
2.2 Ω	HJ35 3220	HF85 3220	12 k Ω	HJ35 7120	HF85 7120
3.3 Ω	HJ35 3330	HF85 3330	13 k Ω	HF45 7130	HF45 7130
4.7 Ω	HJ35 3470	HF85 3470	15 k Ω	HF45 7150	HF45 7150
5.6 Ω	HJ35 3560	HF85 3560	18 k Ω	HF45 7180	HF45 7180
10 Ω	HF45 4100	HF45 4100	22 k Ω	HF45 7220	HF45 7220
15 Ω	HJ35 4150	HF85 4150	24 k Ω	HF45 7240	HF45 7240
22 Ω	HF45 4220	HF45 4220	27 k Ω	HJ35 7270	HF85 7270
27 Ω	HJ35 4270	HF85 4270	30 k Ω	HF45 7300	HF45 7300
33 Ω	HF45 4330	HF45 4330	33 k Ω	HF45 7330	HF45 7330
39 Ω	HJ35 4470	HF85 4390	36 k Ω	HF45 7360	HF45 7360
47 Ω	HF45 4470	HF45 4470	39 k Ω	HF45 7390	HF45 7390
56 Ω	HF45 4560	HF45 4560	47 k Ω	HF45 7470	HF45 7470
68 Ω	HF45 4680	HF45 4680	51 k Ω	HF45 7510	HF45 7510
75 Ω	HF45 4750	HF45 4750	56 k Ω	HF45 7560	HF45 7560
82 Ω	HF45 4820	HF45 4820	62 k Ω	HF45 7620	HF45 7620
91 Ω	HF45 4910	HF45 4910	68 k Ω	HF45 7680	HF45 7680
100 Ω	HF45 5100	HF45 5100	82 k Ω	HF45 7820	HF45 7820
110 Ω	HJ35 5110	HF85 5110	91 k Ω	HF45 7910	HF45 7910
120 Ω	HF45 5120	HF45 5120	100 k Ω	HF45 8100	HF45 8100
150 Ω	HF45 5150	HF45 5150	110 k Ω	HF45 8110	HF45 8110
160 Ω	HJ35 5160	*	120 k Ω	HF45 8120	HF45 8120
180 Ω	HF45 5180	HF45 5180	150 k Ω	HF45 8150	HF45 8150
200 Ω	HF45 5200	HF45 5200	180 k Ω	HF45 8180	HF45 8180
220 Ω	HF45 5220	HF45 5220	220 k Ω	HJ35 8220	HF85 8220
270 Ω	HF45 5270	HF45 5270	270 k Ω	HF45 8270	HF45 8270
330 Ω	HF45 5330	HF45 5330	300 k Ω	HF45 8300	HF45 8300
390 Ω	HF45 5390	HF45 5390	330 k Ω	HF45 8330	HF45 8330
430 Ω	HF45 5430	HF45 5430	390 k Ω	HJ35 8390	HF85 8390
470 Ω	HF45 5470	HF45 5470	470 k Ω	HF45 8470	HF45 8470
510 Ω	HF45 5510	HF45 5510	560 k Ω	HJ35 8560	HF85 8560
560 Ω	HF45 5560	HF45 5560	680 k Ω	HJ35 8680	HF85 8680
680 Ω	HF45 5680	HF45 5680	820 k Ω	HJ35 8820	HF85 8820
820 Ω	HF45 5820	HF45 5820	1.0 M Ω	HF45 9100	HF45 9100
910 Ω	HF45 5910	HF45 5910	1.2 M Ω	HJ35 9120	*
1.0 k Ω	HF45 6100	HF45 6100	1.5 M Ω	HJ35 9150	HF85 9150
1.2 k Ω	HF45 6120	HF45 6120	1.8 M Ω	HJ35 9180	HF85 9180
1.5 k Ω	HF45 6150	HF45 6150	2.2 M Ω	HJ35 9220	HF85 9220
1.8 k Ω	HF45 6180	HF45 6180	3.3 M Ω	HJ35 9330	HF85 9330
2.0 k Ω	HJ35 6200	HF85 6200	3.9 M Ω	HJ35 9390	*
2.2 k Ω	HF45 6220	HF45 6220	4.7 M Ω	HJ35 9470	HF85 9470
2.4 k Ω	HJ35 6240	HF85 6240			
2.7 k Ω	HF45 6270	HF45 6270			
3.0 k Ω	HF45 6300	HF45 6300			
3.3 k Ω	HF45 6330	HF45 6330			
3.6 k Ω	HJ35 6360	HF85 6360			
3.9 k Ω	HF45 6390	HF45 6390			
4.7 k Ω	HF45 6470	HF45 6470			
5.1 k Ω	HF45 6510	HF45 6510			
5.6 k Ω	HF45 6560	HF45 6560			
6.8 k Ω	HF45 6680	HF45 6680			
8.2 k Ω	HF45 6820	HF45 6820			
9.1 k Ω	HF45 6910	HF45 6910			



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