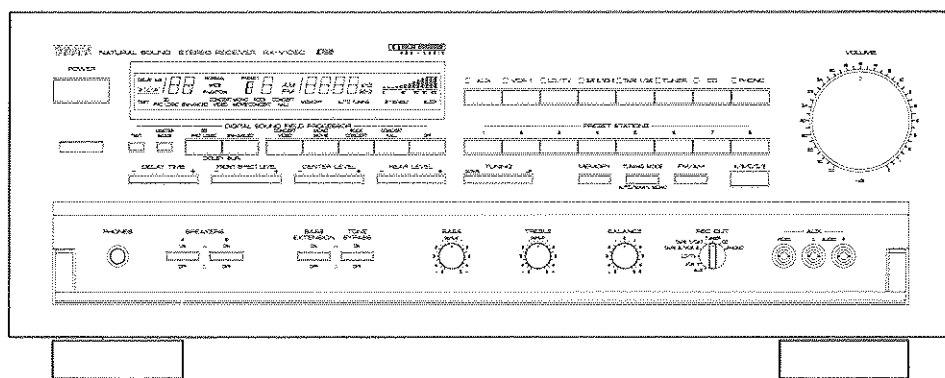
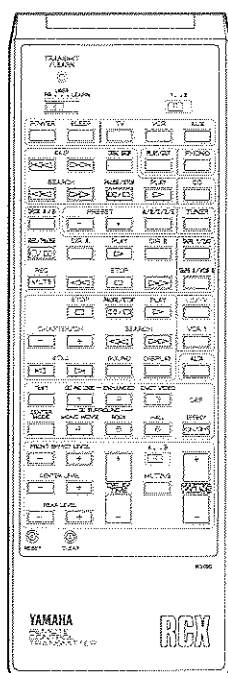


CENTER

STEREO RECEIVER

RX-V1050

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 all 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 parts replacement. Recheck all work before you apply power to the unit.

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ADJUSTMENT IN TUNER SECTION	10~13		

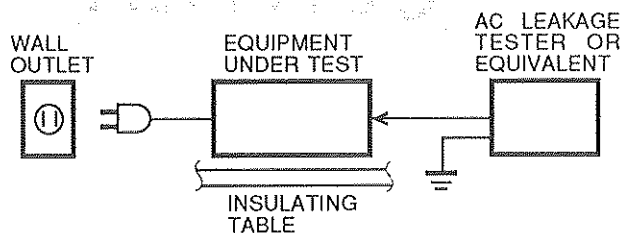
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YAMAHA
YAMAHA CORPORATION
P.O. Box 1, Hamamatsu, Japan

1.65K-177 Printed in Japan '91.1

■ 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.



● POLARIZATION (U, C models)

This receiver product is equipped with a polarized alternating-current line plug (a plug having one blade wider than the other). This plug will fit into the power outlet only one way. This is a safety feature.

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.

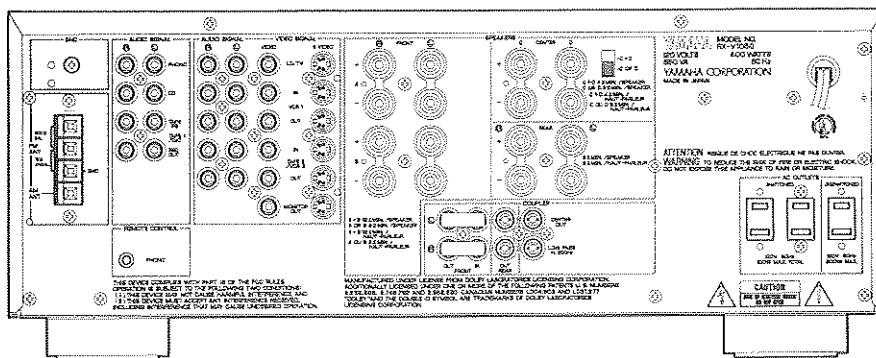
DO NOT PLACE SOLDER, ELECTRICAL/ELECTRONIC OR PLASTIC COMPONENTS IN YOUR MOUTH FOR ANY REASON WHATSOEVER!

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

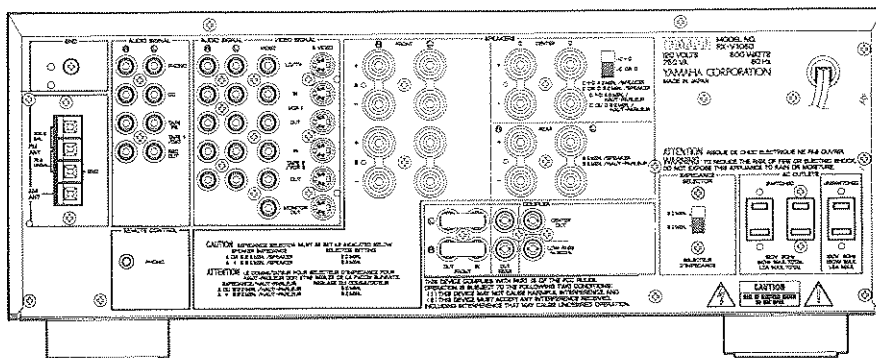
If you come in contact with solder or components located inside the enclosure of this product, wash your hands before handling food.

■ REAR PANELS

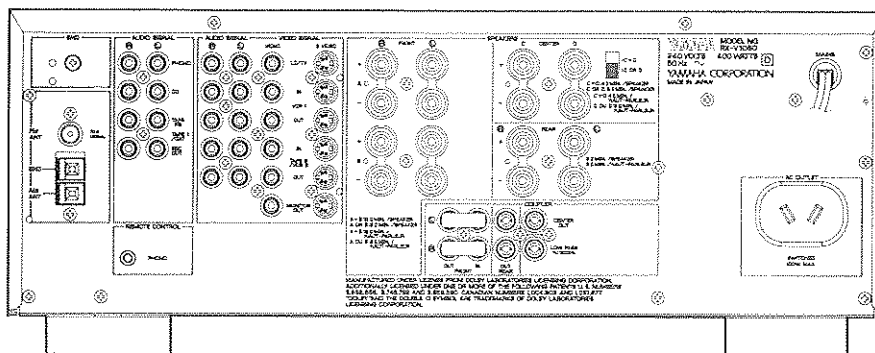
▼ U model



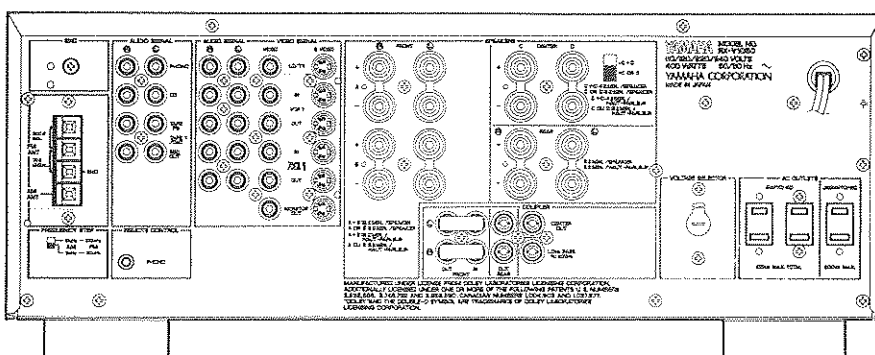
▼ C model



▼ A model



▼ R model



■ SPECIFICATIONS

■ AUDIO SECTION

Minimum RMS Output Power per Channel		Frequency Response (20 Hz-20 kHz)	
Main (20Hz—20kHz 0.015% THD 8Ω/6Ω)	110W/135W	CD/LD/AUX/TAPE/VCR	0±1.5dB
Center (20Hz—20kHz 0.015% THD 8Ω/6Ω)	110W/135W	MAIN IN	0±0.3dB
Rear Effect (1kHz 0.08% THD 8Ω/6Ω)	30W/40W	RIAA Equalization Deviation	
Dynamic Power per Channel		PHONO MM	±0.5dB
(by IHF Dynamic Headroom measuring method)		Total Harmonic Distortion (20Hz—20kHz)	
8Ω/6Ω	160W/190W	PHONO MM to REC OUT (1V)	0.01%
Dynamic Headroom		CD/LD/AUX/TAPE/VCR to PRE OUT (1V)	0.008%
8Ω/6Ω	1.6dB/2.0dB	MAIN IN to SP OUT (50W/8Ω)	0.008%
Damping Factor		(60W/6Ω)	0.008%
8Ω, 1kHz	55	Signal-to-Noise Ratio (IHF-A Network)	
Input Sensitivity/Impedance		PHONO MM (5mV Input Shorted)	More than 86dB
PHONO MM	2.5mV/47kΩ	CD/LD/AUX/TAPE/VCR (Shorted)	More than 93dB
CD/LD/AUX/TAPE/VCR	150mV/47kΩ	Residual Noise (IHF-A Network)	150μV
MAIN IN	1V/47kΩ	Channel Separation (Vol. -30 dB)	
Maximum Input Signal (1 kHz 0.01% THD)		PHONO MM (Input Shorted 1kHz/10kHz)	60dB/45dB
PHONO MM	90mV	CD/LD/AUX/TAPE/VCR	
Output Level/Impedance		(Input 5.1kΩ Terminated 1kHz/10kHz)	60dB/45dB
REC OUT	150mV/470Ω	Tone Control Characteristics	
PRE OUT	1V/3.3kΩ	BASS : Boost/Cut	±10dB(50Hz)
LOW PASS	0.8V/3.9kΩ	Turnover Frequency	350Hz
Maximum Voltage Output (20 Hz-20 kHz, 0.01% THD)		TREBLE : Boost/Cut	±10dB(20kHz)
PRE OUT	4.8V	Turnover Frequency	3.5kHz
Headphone Jack Rated Output/Impedance		BASS EXTENSION	
0.01% THD 1kHz RL=8Ω	0.6V/390Ω	Audio Muting	
		—∞dB	

VIDEO

Video Signal Type	
[U.S.A. and Canada models]	NTSC
[Australia model]	PAL
[General model]	NTSC/PAL
Video Signal Level	1Vp-p/75Ω
S-Video Signal Level	
Y	1Vp-p/75Ω
C	0.286Vp-p/75Ω
Maximum Input Level	More than 1.5Vp-p
Signal-to-Noise Ratio	50dB
Frequency Response	5Hz—10MHz, -3dB

FM SECTION

Tuning Range	
[U.S.A. and Canada models]	87.5—107.9MHz
[Australia and General model]	87.5—108.0MHz
50 dB 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	81dB/76dB
Harmonic Distortion (1kHz)	
Mono/Stereo	0.1%/0.2%
Stereo Separation (1kHz)	
	50dB
Frequency Response	
20 Hz—15 kHz	0±1.5dB

AM SECTION

Tuning Range	
[U.S.A., Canada and General models]	530—1,710kHz
[Australia and General models]	531—1,611kHz
Usable Sensitivity	100μV/m
Selectivity	32dB
Signal-to-Noise Ratio	50dB
Image Response Ratio	40dB
Spurious Response Ratio	50dB
Harmonic Distortion	0.3%

AUDIO SECTION

Output Level/Impedance	
FM (100% mod., 1kHz)	700mV/470Ω
AM (30% mod., 400Hz)	200mV/470Ω

GENERAL

Power Supply	
[U.S.A. and Canada models]	AC 120V 60Hz
[Australia model]	AC 240V 50Hz
[General model]	AC 110/120/220/240V 60/50Hz

Power Consumption

[Australia and General models]	400W
[U.S.A model]	550VA/400W
[Canada model]	750VA/600W

AC Outlets

[U.S.A. and General models]	
2 SWITCHED OUTLETS	100W max. total
1 UNSWITCHED OUTLET	200W max.
[Canada model]	
2 SWITCHED OUTLETS	120W max. total
	1.0A max. total
1 UNSWITCHED OUTLET	180W max.
	1.5A max.

[Australia model]

1 SWITCHED OUTLET	100W max.
Dimensions (W x H x D)	
	435 x 171.5 x 468.5mm
	(17-1/8" x 6-3/4" x 18-7/16")

Weight

18.6kg (40 lbs. 15 oz)

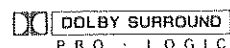
Accessories

AM loop antenna	x 1
Indoor FM antenna	x 1
Remote control transmitter	x 1
Battery	x 2
User program sheet	x 2

*Specifications are subject to change without notice.

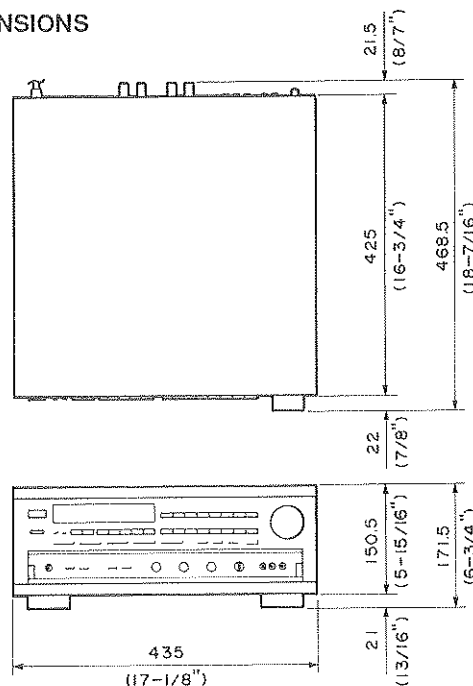
U..... U. S. A. model
C..... Canadian model

A..... Australian model
R..... General model



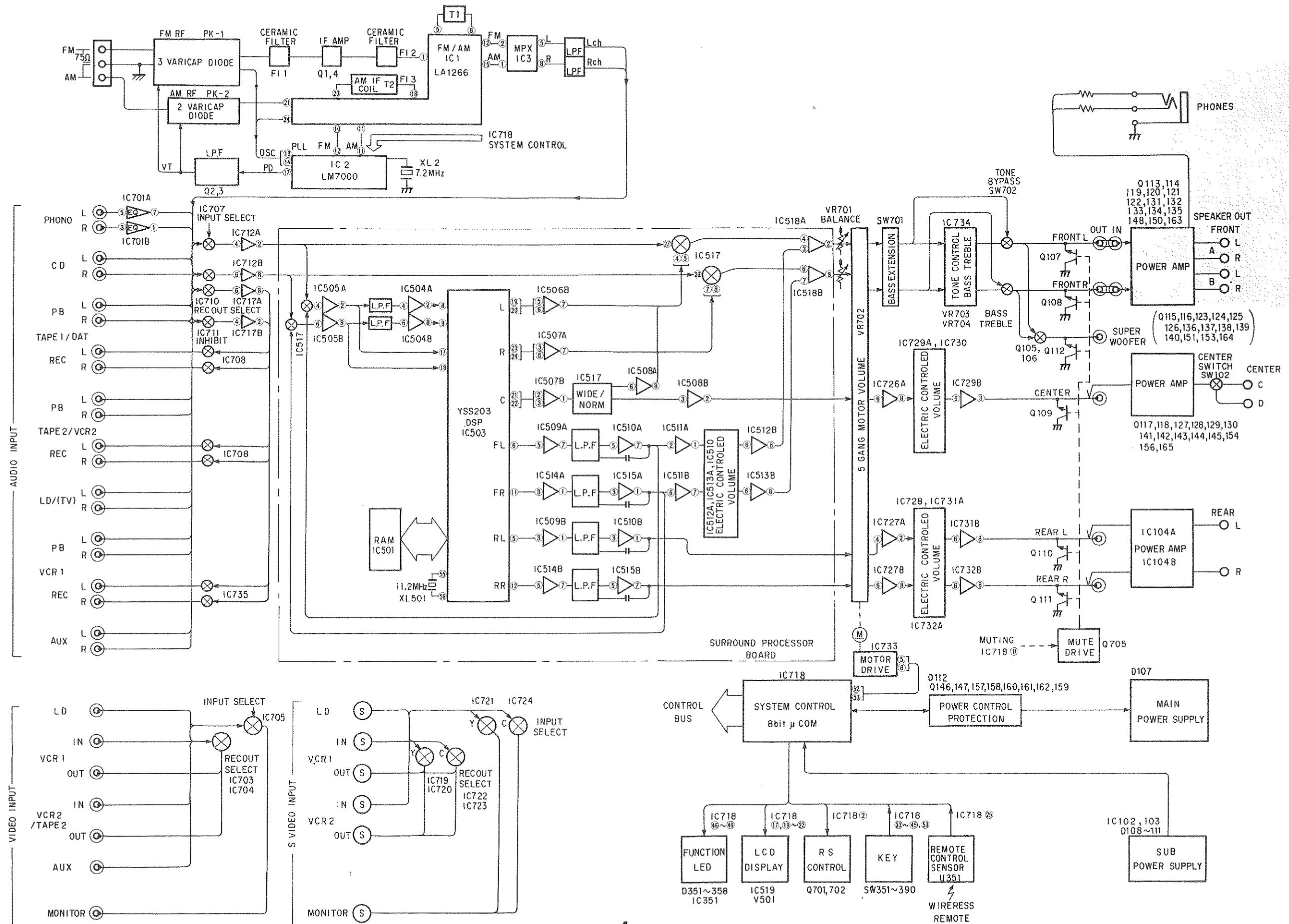
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DIMENSIONS

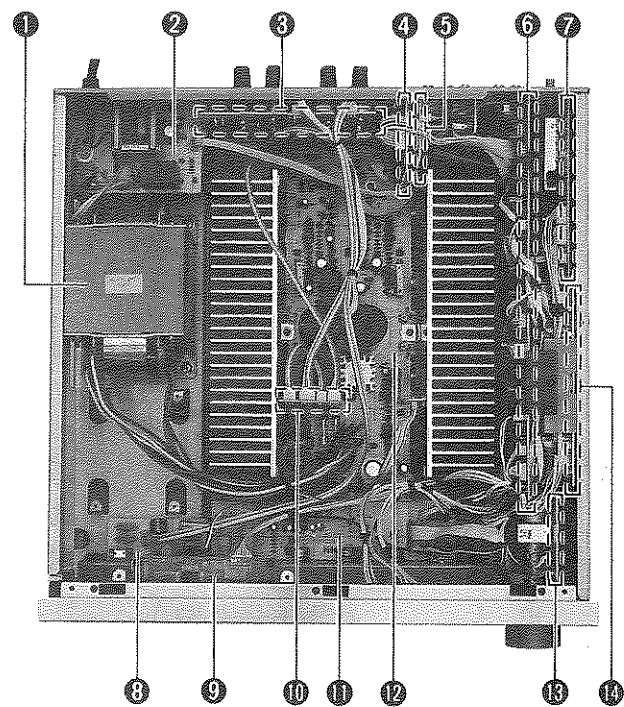


Unit : mm (inch)

■ BLOCK DIAGRAM



INTERNAL VIEW



- ① POWER TRANSFORMER
- ② MAIN CIRCUIT BOARD (3)
- ③ MAIN CIRCUIT BOARD (2)
- ④ INPUT CIRCUIT BOARD (5)
- ⑤ INPUT CIRCUIT BOARD (4)
- ⑥ INPUT CIRCUIT BOARD (1)
- ⑦ TUNER CIRCUIT BOARD
- ⑧ MAIN CIRCUIT BOARD (4)
- ⑨ DSP CIRCUIT BOARD (2)
- ⑩ MAIN CIRCUIT BOARD (5)
- ⑪ INPUT CIRCUIT BOARD (2)
- ⑫ MAIN CIRCUIT BOARD (1)
- ⑬ INPUT CIRCUIT BOARD (3)
- ⑭ DSP CIRCUIT BOARD (1)

DISASSEMBLY PROCEDURES

(Remove parts in disassembly order as numbered.)

1. Removal of Top Cover

- a. Remove 4 screws (①) and 2 screws (②) and then remove the top cover in Fig. 1.

2. Removal of Bottom Cover

- a. Remove 12 screws (③) and then remove the bottom cover in Fig. 1.

3. Removal of Front Panel

- a. Remove 5 knobs in Fig. 1.
- b. Remove 3 screws (④) and then remove the front panel in Fig. 1.

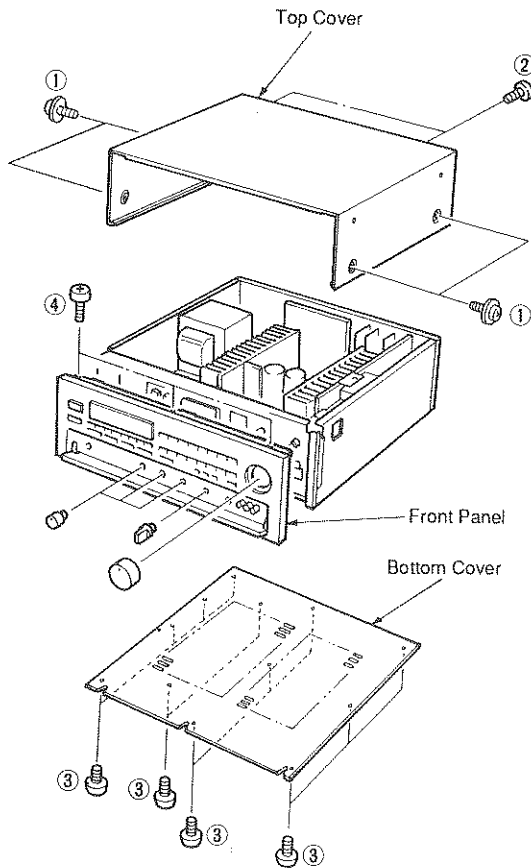


Fig. 1

4. Removal of DSP Circuit Board (1) and Tuner Circuit Board

- a. Remove the plastic rivet (⑤) and then remove the support PCB in Fig. 2.
- b. Remove 3 screws (⑥) and 2 screws (⑦) in Fig. 3.
- c. Remove the plastic rivet (⑧) in Fig. 2.
- d. Remove the DSP circuit board (with shield case RX) and disconnect connectors as necessary.
- e. Remove 3 screws (⑨) and then remove the tuner circuit board in Fig. 3.

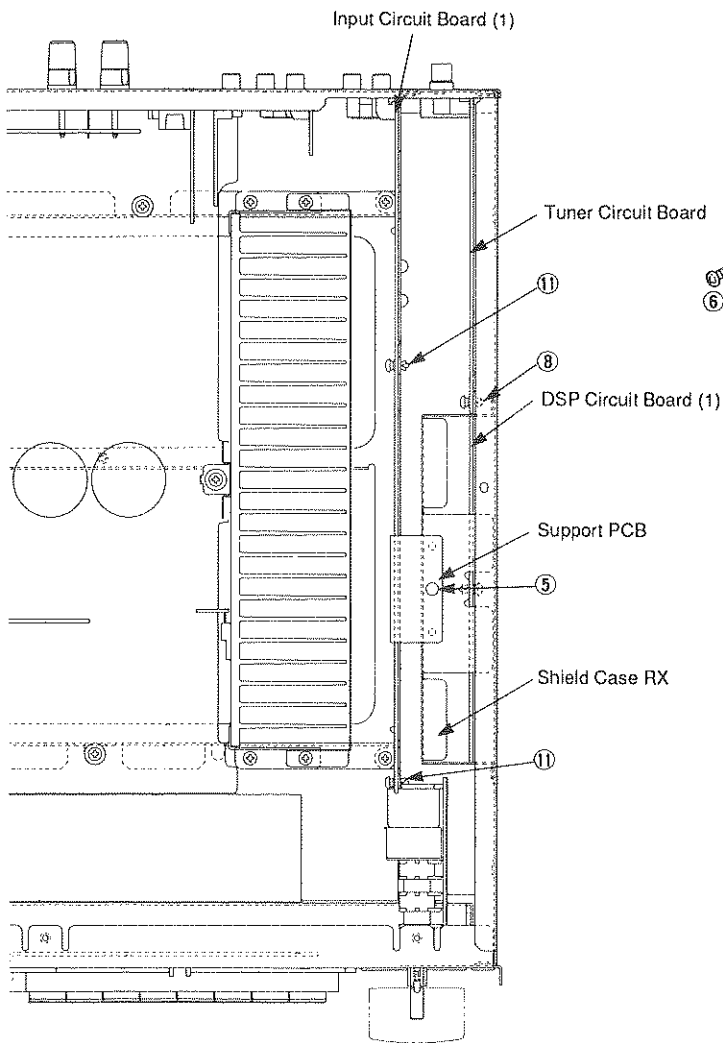


Fig. 2

5. Removal of Input Circuit Board (1)

- a. Remove 2 screws (⑩) in Fig. 3.
- b. Remove the plastic rivet (⑪) in Fig. 2.
- c. Remove the input circuit board (1) and disconnect connectors as necessary.

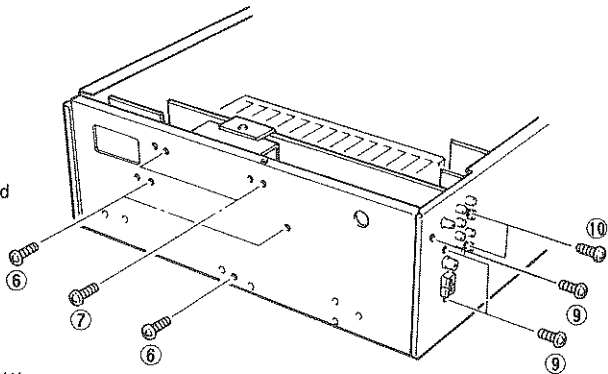
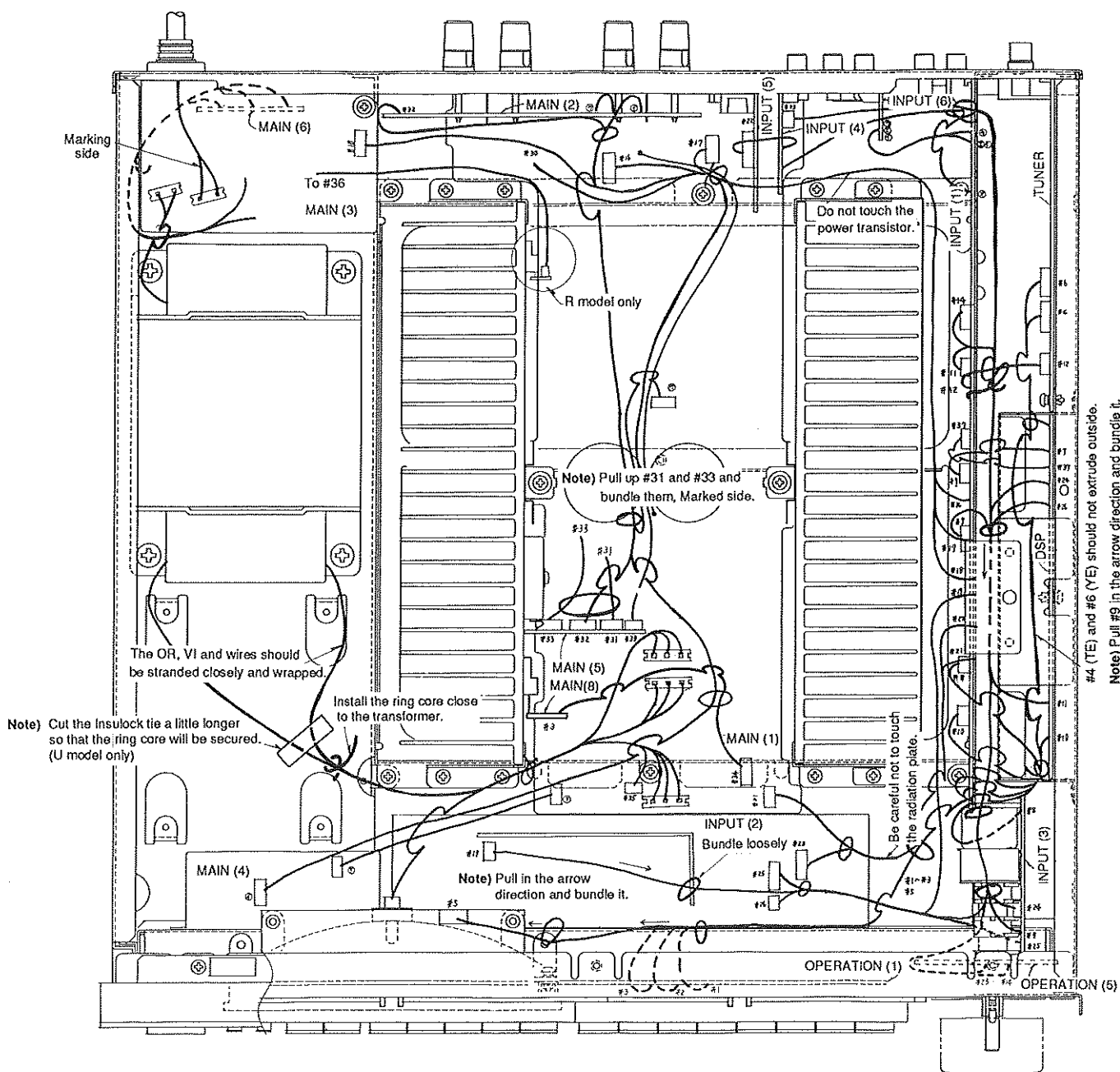


Fig. 3

● CONNECTOR WIRING DIAGRAM

(U model)



● See page 16 and 17 for WIRING DIAGRAM explanation

Note) Keep #25 pressed down.

Note) Keep #9, #24 and #26 away from the motor.

■ PROTECTION FUNCTION

The protection function is activated and the power turns OFF when :

1. DC occurs in the output the power amplifier
2. An abnormal current flows to the power amplifier due to such reason as short circuit in the speaker
3. $\pm 12V$ is abnormal

Also, there are cases when the power is turned OFF due to an error in detecting the above conditions or abnormality in the protection circuit itself.

The protection circuit consists of a microcomputer (IC718), Q146, 147 and a peripheral diode.

The function of each element is as follows.

- a) Q146, 147 : Detecting abnormality and sending that signal to the microcomputer (IC718)
- b) RRT (10) terminal of microcomputer (IC718) : Input terminal of the signal from Q146, 147
- c) PWR (23) terminal of microcomputer (IC718) : Output terminal for the signal to the power ON/OFF relay
- d) SPR (9) terminal of interface (IC718) : Output terminal for the ON/OFF signal to the speaker protection relay

The microcomputer does not detect abnormality for 3 or 4 seconds after the power is turned ON. During this time, abnormality can be located by checking the above listed conditions 1 to 5. Before this check, however, make sure to check that is no danger or fuming.

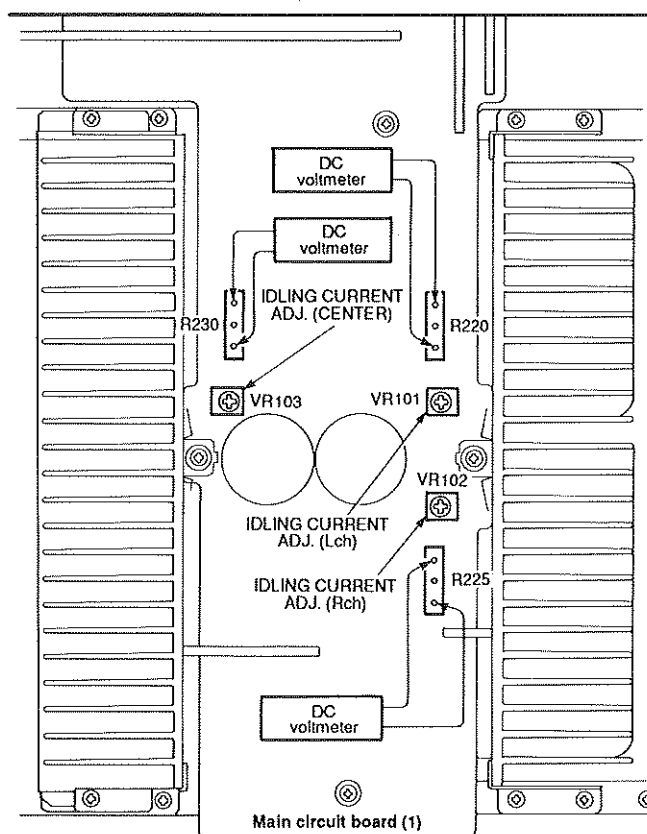
■ ADJUSTMENT IN POWER AMPLIFIER SECTION

● Idling Current Adjustment

For this adjustment, wait for 2 minutes with no signal applied after the power was turned ON.

Item	Test Point	Adjusted points	Rating(DC)
L ch	Between both terminals of R220	VR101	5mV~10mV
R ch	Between both terminals of R225	VR102	
CENTER	Between both terminals of R230	VR103	5mV~10mV

● Test Point

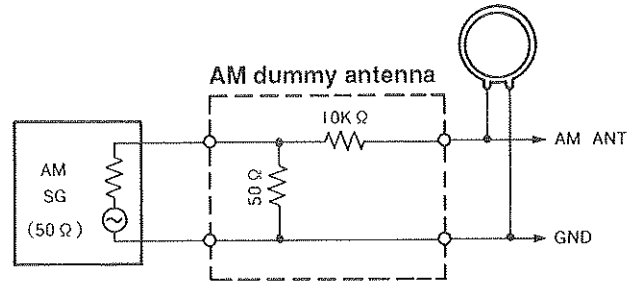
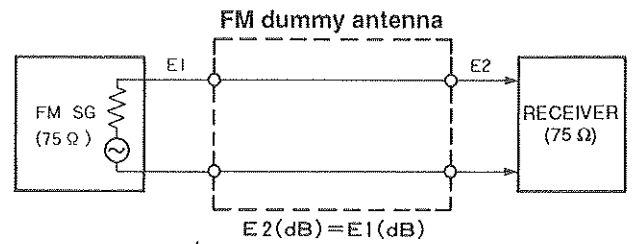
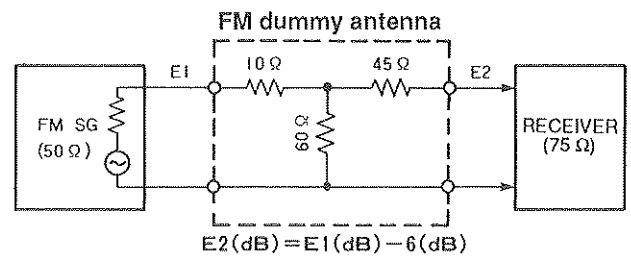


■ ADJUSTMENT IN TUNER SECTION

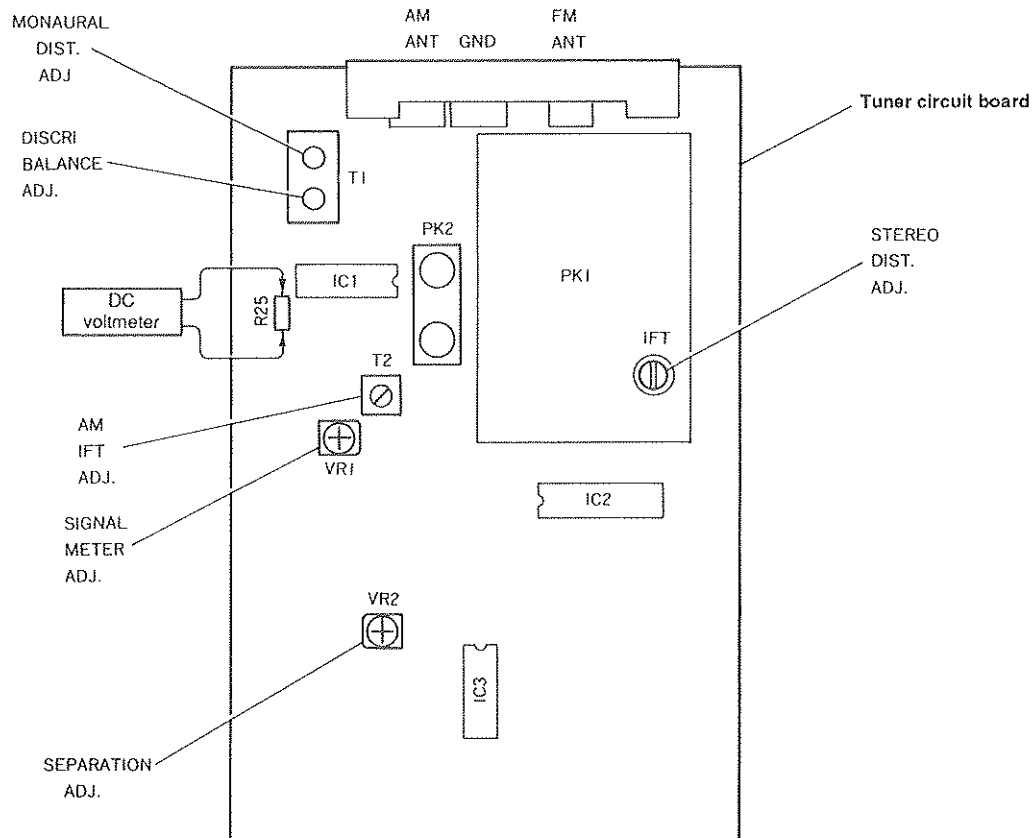
● Measuring Instruments

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, $f_c=15\text{kHz}$)
 Oscillator

● Dummy antenna



● Test point



FM Adjustment

● Before Adjustment

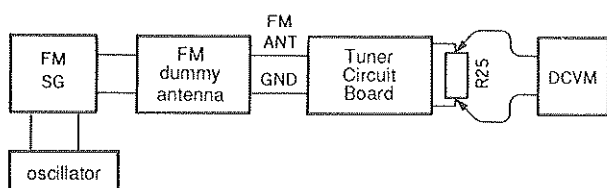
- 1) For dB, $1\mu V = 0dB\mu$ applies.
Example : $60dB\mu = 1mV$
- 2) 100% modulation means that the frequency deviation is 75kHz.

- 3) Set each switch at the following position unless otherwise specified.

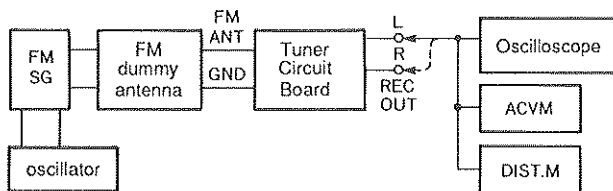
INPUT SELECTOR TUNER
REC OUT TUNER
TUNING MODE AUTO

● Connection diagram (Measuring instruments)

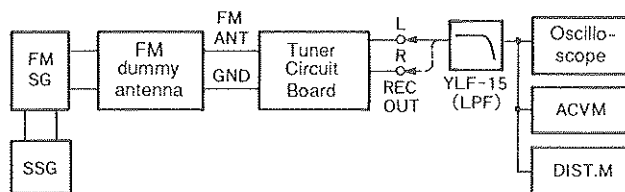
1) Discriminator balance adjustment



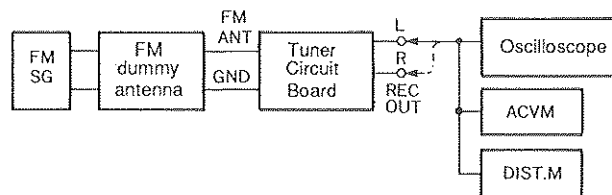
2) Monaural distortion adjustment



3) Stereo distortion adjustment/separation 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 52dB 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 14 and 15.) will facilitate setting reception frequency for adjustment.

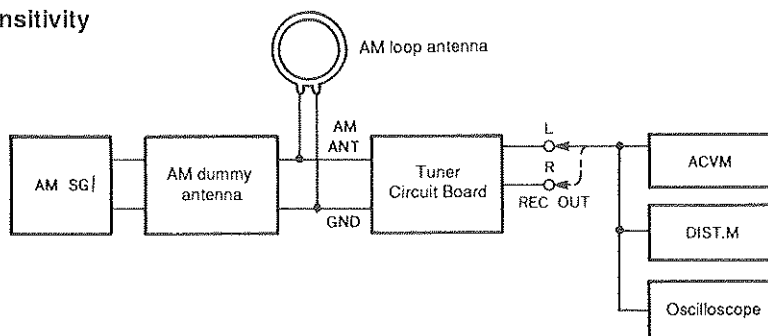
Step	Adjustment Item	Signal (ANT IN)	Reception frequency	Adjusted point	Test point	Rating
6	Stereo distortion	FM ANT (75Ω) 98.1MHz 70dBμ Stereo L or R 1kHz, 100% modulation	98.1MHz * (A-4) *Tuning mode should be AUTO.	Front end IFT	REC OUT L, R	Distortion should be minimized (40dB or less) * STEREO indicator 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	48dB or less
8	Verification of sensitivity	FM ANT (75Ω) 88.1MHz 98.1MHz 106.1MHz 70dBμ MONO 1kHz, 100% modulation	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 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. • Voice muting should be applied during tuning.

* : Execution of MAKER PRESET (Refer to TEST SIGNAL PROGRAM on pages 14 and 15.) will facilitate setting reception frequency for adjustment.

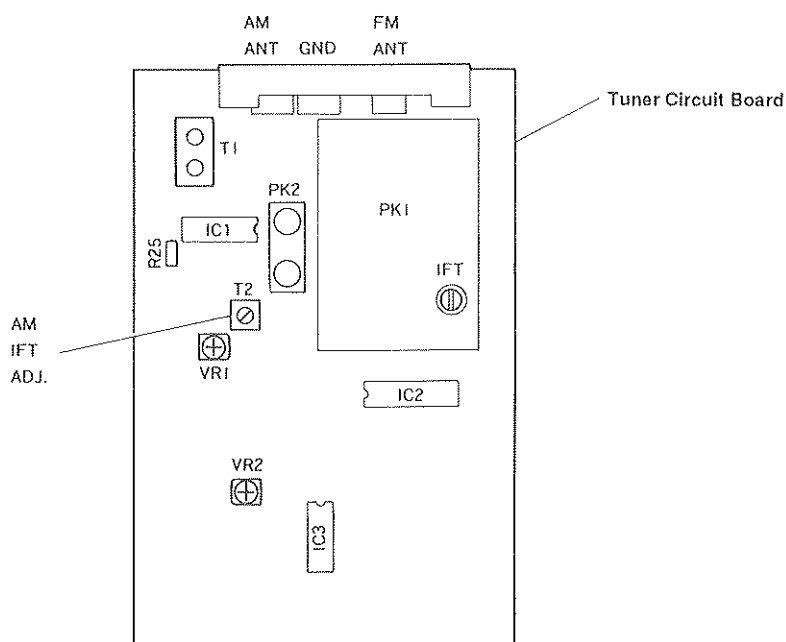
AM Adjustment (This should be done after FM adjustment.)

● 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 50dBμ 400Hz, 30% modulation	630kHz * (B-1)	T2	REC OUT	Wave detection 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 54dBμ or less.
3	Verification of signal meter	AM ANT 1080kHz 90dBμ -10dBμ or less	1080kHz * (B-2)			All signal meters should light. All signal meters should turn OFF.
4	Verification of auto tuning	AM ANT 1080kHz 60dBμ	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 preset station keys Nos. 1, 2 and 3 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 PRESET keys No.1 to No.8.

2. Functions available during the test signal program mode

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

- PRESET No. key : Selection of diagnosis mode
- INPUT SELECTOR key : Switching input source
- LEVEL +/- key : Adjustment of output level
- POWER ON/OFF key : Power ON/OFF

Step 1. PRESET No.1—LCD & INITIALIZE

All LCD's turn OFF, the set is initialized and the content as preset by the manufacturer is executed.

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

Step 2. PRESET No.2—LED & INHIBIT

LED : Lighting occurs in the order of PHONO CD TUNER DAT/ TAPE1 TAPE2/VCR2 LD VCR1 AUX all LED's

LCD : "2 SELF" is displayed.

After the above display, the LED displays the input source again and the LCD turns OFF via the INH terminal.

Step 3. PRESET No. 3—LCD 1 CHARACTER

LCD : "8" is displayed in its center.

Step 4 PRESET No.4—STEERING OFF

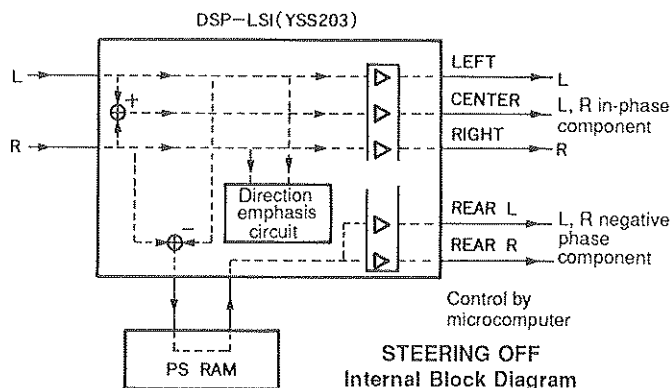
The MULTIPLYING DAC value in the DSP-LSI output step gets out of the control by the internal direction emphasis circuit and now it can be set through the microcomputer. Then the output of each channel is as listed below.

- 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".



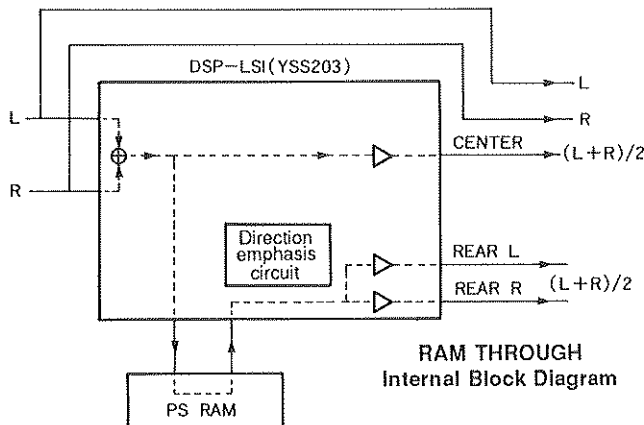
Step 5. PRESET No.5—RAM THROUGH

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

VOLUME LEVEL

- FRONT EFFECT : "—"
- CENTER : "80"
- REAR : "72"

The LCD displays "5 SELF".

**Step 6. PRESET No.6—LCD**

The LCD displays "6 SELF".

STEP 7 PRESET No.7—MANUAL TEST TONE

The TEST tone of the DOLBY PRO LOGIC shifts in the order of L C R S at every pressing of the No. 7 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"

Step 8. PRESET No.8—EXIT

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

3. Cancellation

The program is reset to the normal operation mode by turning the power OFF or by pressing the PRESET No.8 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	108.0MHz	88.1MHz	106.1MHz	U, C : 107.9MkHz A, R : 108.0MHz
B, D	630kHz	1080kHz	1440kHz	U, C : 530kHz A, R : 531kHz	U, C : 1710kHz A, R : 1611kHz	900kHz	1350kHz	U, C : 1400kHz A, R : 1404kHz

All tuning modes are AUTO TUNING and AUTO STEREO.

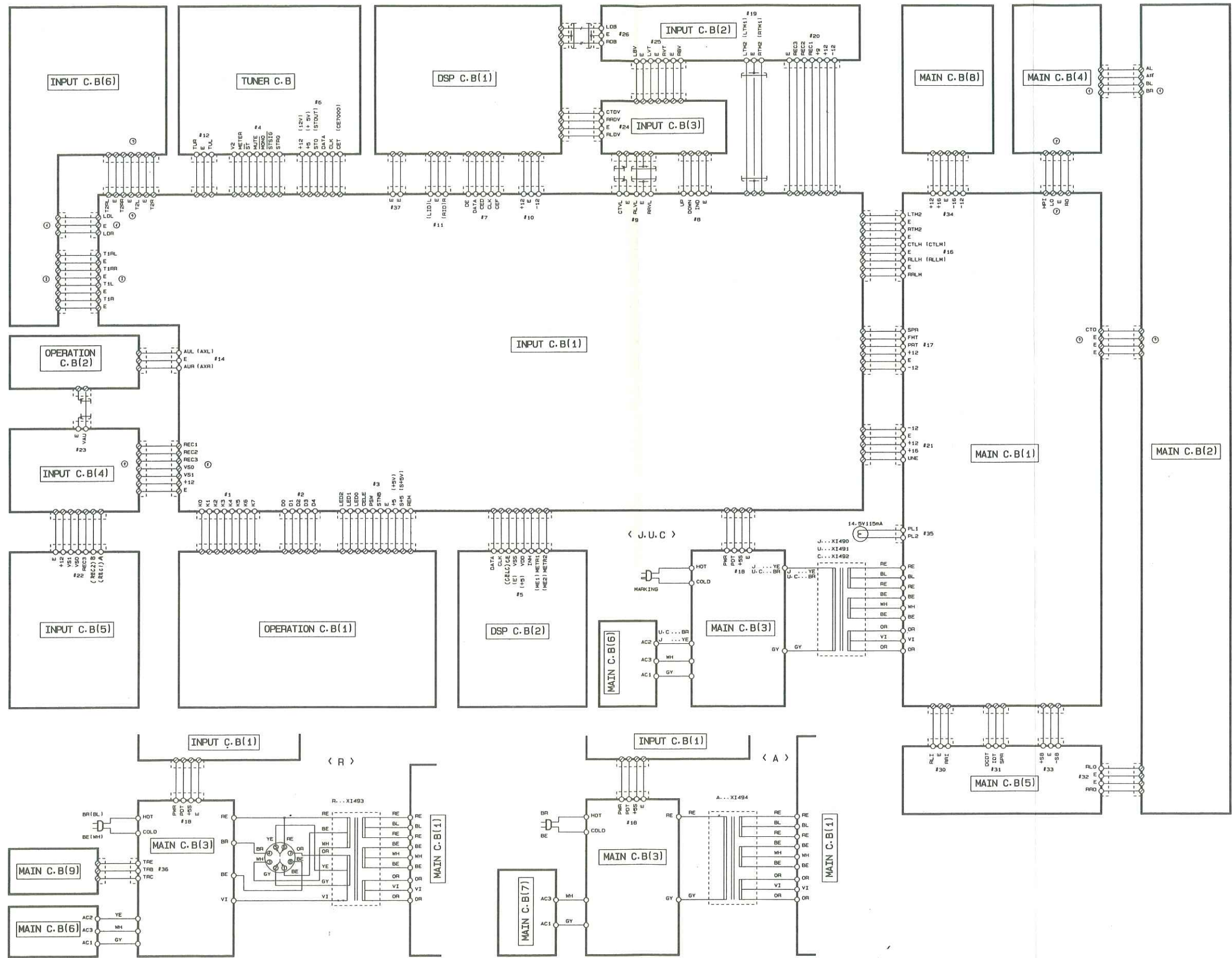
2) SURROUND section

- 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

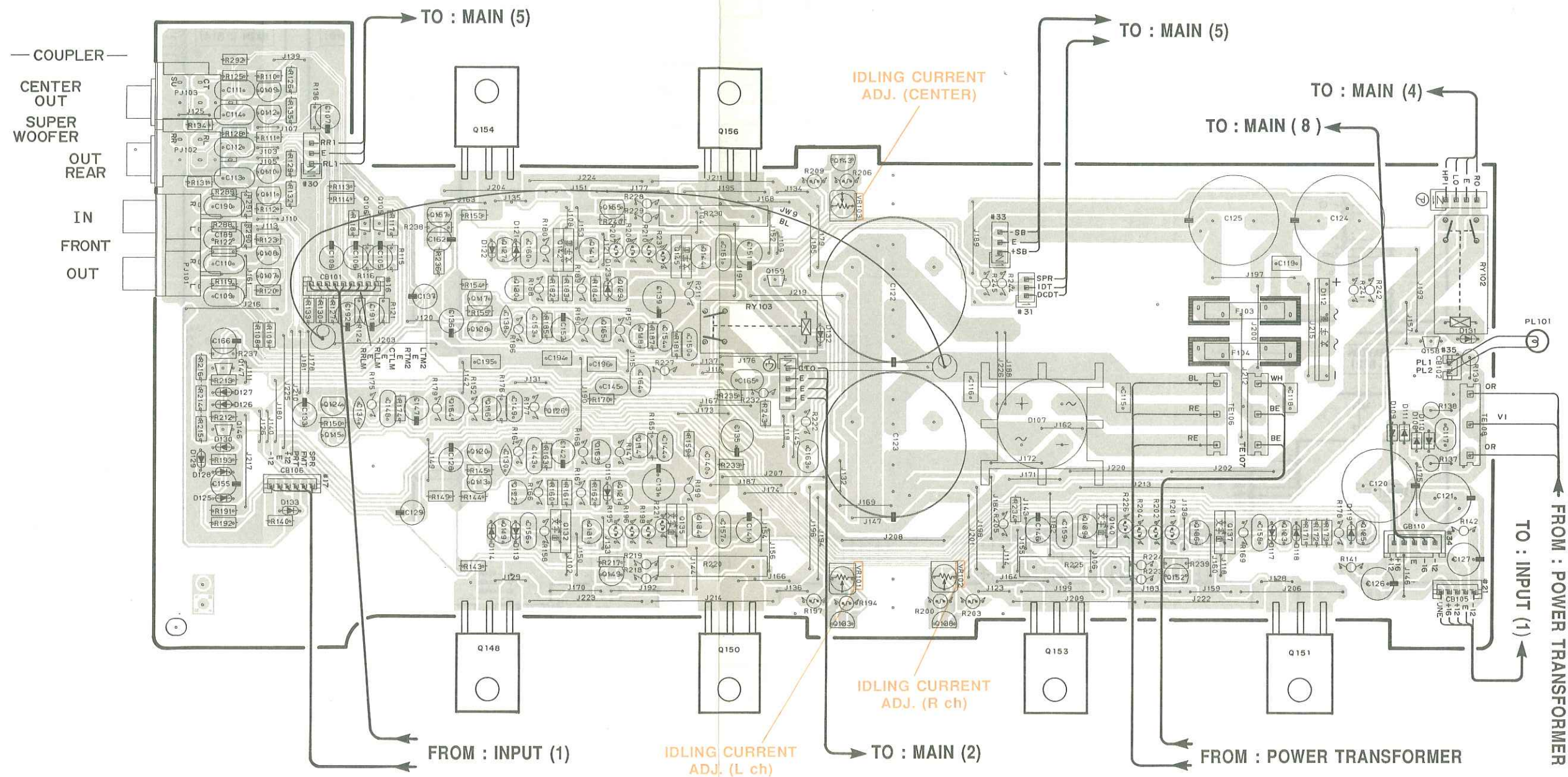
■ INTERCONNECT WIRING DIAGRAM



PRINTED CIRCUIT BOARD (Foil side)

Note) 文字面 : Component side

MAIN C. B (1)



● Semiconductor Location

Ref. No.	Location	Ref. No.	Location	Ref. No.	Location	Ref. No.	Location	Ref. No.	Location	Ref. No.	Location
D 107	E3	D 123	D2	Q 109	B2	Q 123	F4	Q 137	F4	Q 151	F4
D 108	G3	D 125	B3	Q 110	B2	Q 124	B3	Q 138	E4	Q 152	F4
D 109	G3	D 126	B3	Q 111	B2	Q 125	G3	Q 139	F3	Q 153	E4
D 110	G3	D 127	B3	Q 112	B2	Q 126	C3	Q 140	F2	Q 154	C2
D 111	G3	D 128	B3	Q 113	C3	Q 127	C2	Q 141	C2	Q 155	D2
D 112	G3	D 129	B3	Q 114	D3	Q 128	C3	Q 142	C2	Q 156	D2
D 113	C3	D 130	B3	Q 115	B3	Q 129	D2	Q 143	E2	Q 157	C2
D 114	C3	D 131	G3	Q 116	C3	Q 130	C2	Q 144	D2	Q 158	G3
D 115	C3	D 132	D3	Q 117	C3	Q 131	C3	Q 145	D2	Q 159	D2
D 117	F4	D 133	B3	Q 118	D3	Q 132	C3	Q 146	B3	Q 163	C3
D 118	F4	Q 105	C2	Q 119	C3	Q 133	E4	Q 147	B3	Q 164	C3
D 119	G3	Q 106	B2	Q 120	C3	Q 134	D3	Q 148	C4	Q 165	C3
D 121	C2	Q 107	B2	Q 121	D3	Q 135	D3	Q 149	D4		
D 122	C2	Q 108	B2	Q 122	C3	Q 136	F4	Q 150	D4		

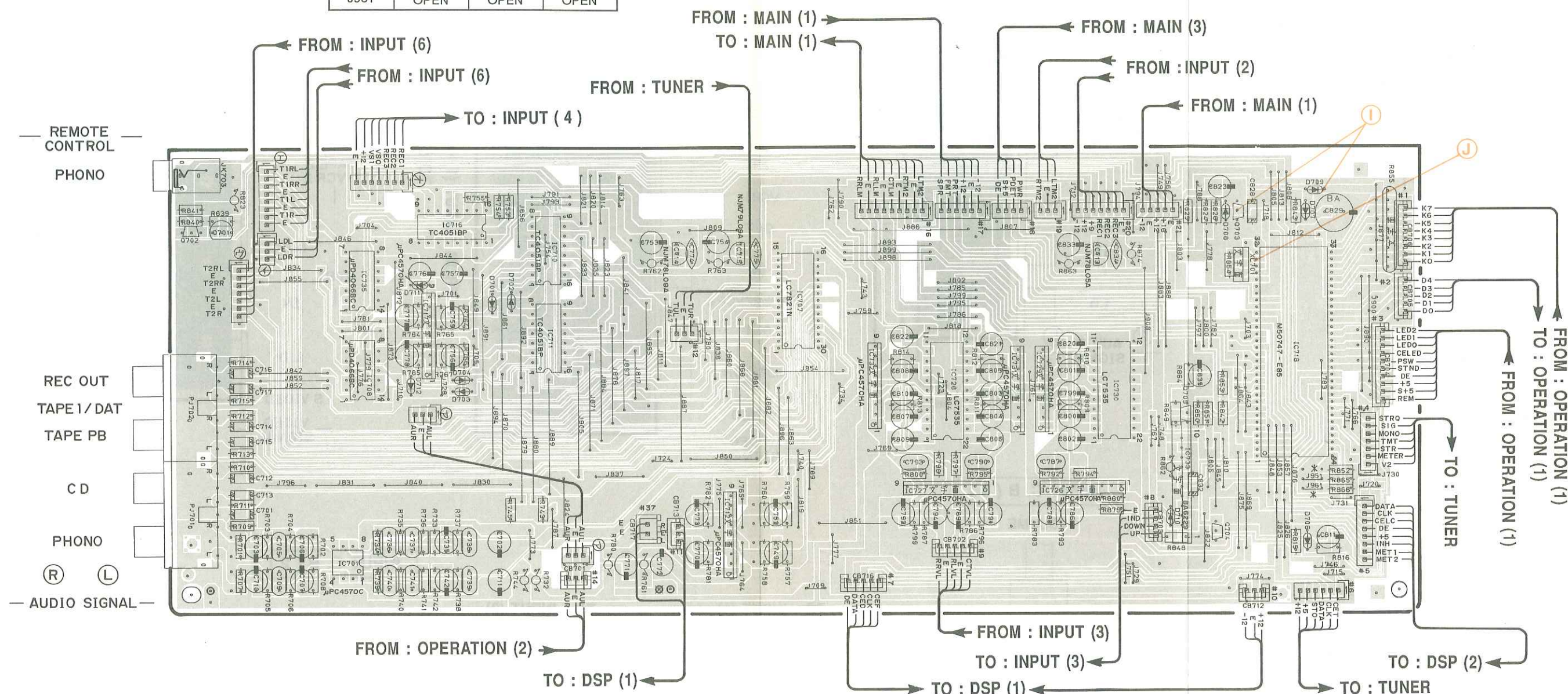
PRINTED CIRCUIT BOARD (Foil side)

Note) 文字面 : Component side

Note) * Marked

	U, C	G	A
J951	SHORT	OPEN	SHORT
J961	OPEN	OPEN	OPEN

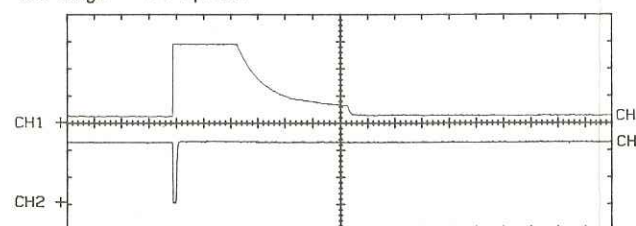
INPUT C. B (1)



Semiconductor Location

Ref. No.	Location	Ref. No.	Location	Ref. No.	Location	Ref. No.	Location
D 701	C3	D 712	C3	IC 716	C2	IC 733	F3
D 702	C3	IC 701	B4	IC 717	C3	IC 735	B3
D 703	C3	IC 707	D3	IC 718	G3	Q 701	B2
D 704	C3	IC 708	B3	IC 726	F3	Q 702	B2
D 706	G4	IC 710	C2	IC 727	E3	Q 703	F2
D 707	G2	IC 711	C3	IC 728	E3	Q 704	F4
D 708	F2	IC 712	D4	IC 729	E3	Q 705	F3
D 709	G2	IC 713	F2	IC 730	F3		
D 710	F4	IC 714	D2	IC 731	E3		
D 711	C3	IC 715	D2	IC 732	E3		

Point ① : S+5, RES

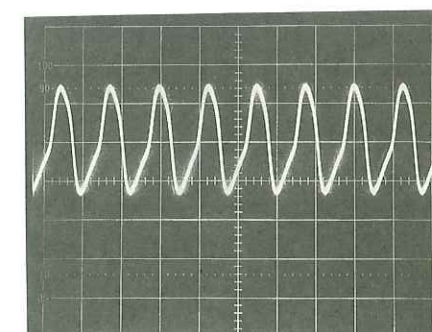
(CH1 : Cathode of D709, CH2 : Pin 28 of IC718)
V : 2V/div, H : 500msec/div
DC range 1 : 1 probe


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 the power switch ON and OFF.)

Point ② : CLOCK

(Pin 30 of IC718)
V : 0.2V/div, H : 0.1μsec/div
DC range 10 : 1 probe


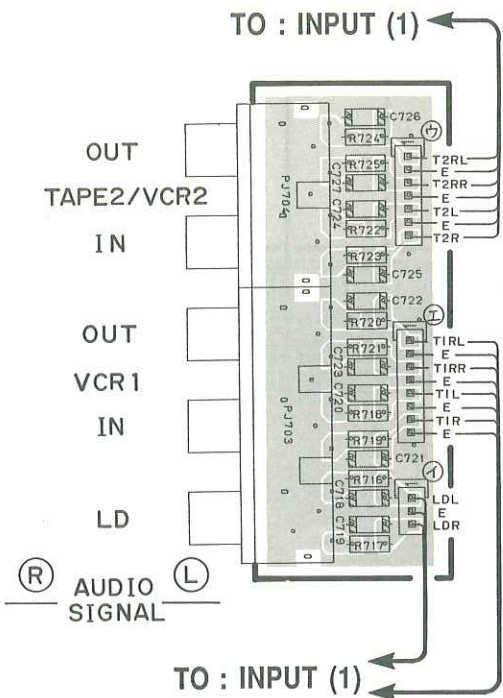
PRINTED CIRCUIT BOARD (Foil side)

Note) 文字面 : Component side

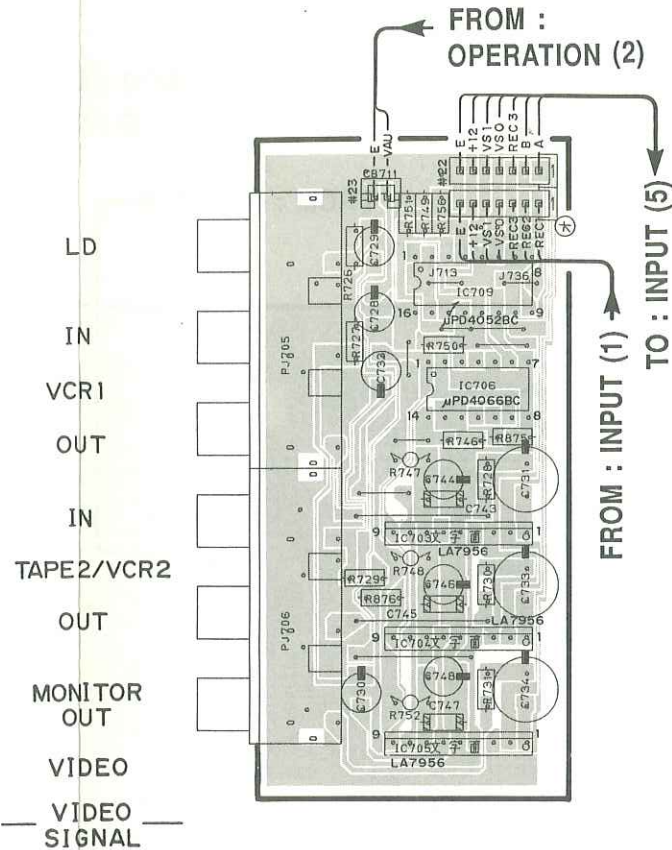
Semiconductor Location

Ref. No.	Location
IC 702	E5
IC 703	E3
IC 704	E3
IC 705	E3
IC 706	E2
IC 709	E2
IC 719	H2
IC 720	H2
IC 721	H2
IC 722	H3
IC 723	H2
IC 724	H2
IC 725	H3
IC 734	G5

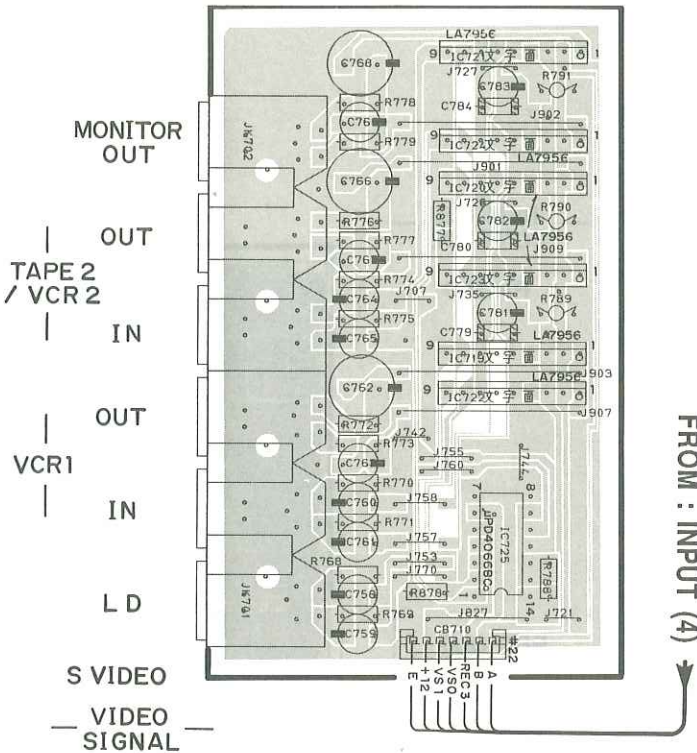
INPUT C. B (6)



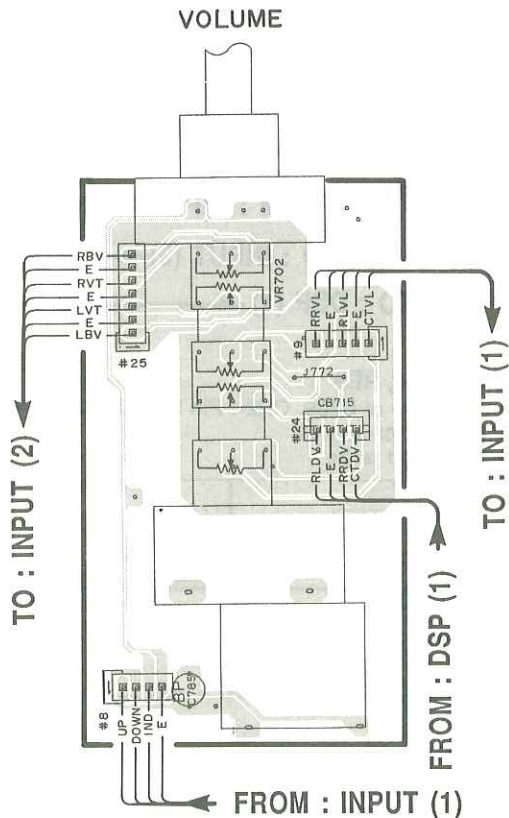
INPUT C. B (4)



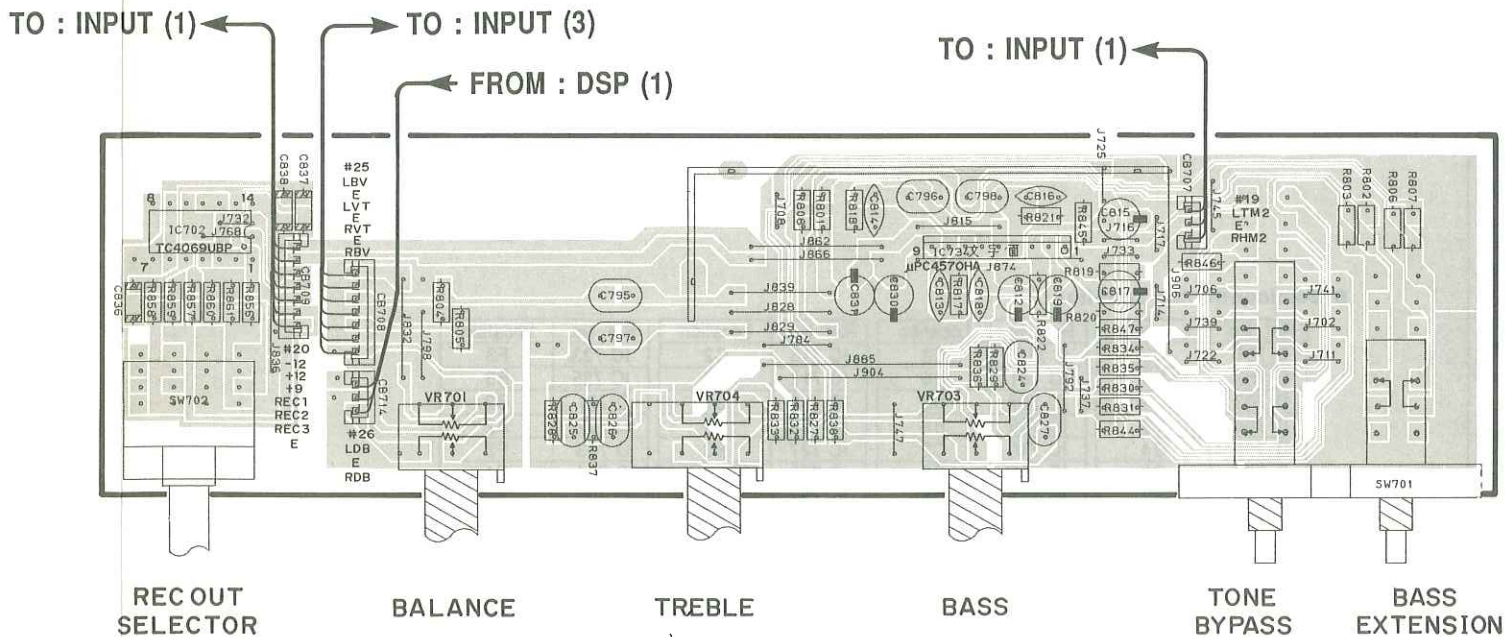
INPUT C. B (5)



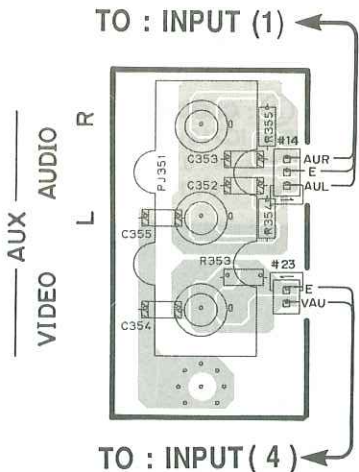
INPUT C. B (3)



INPUT C. B (2)



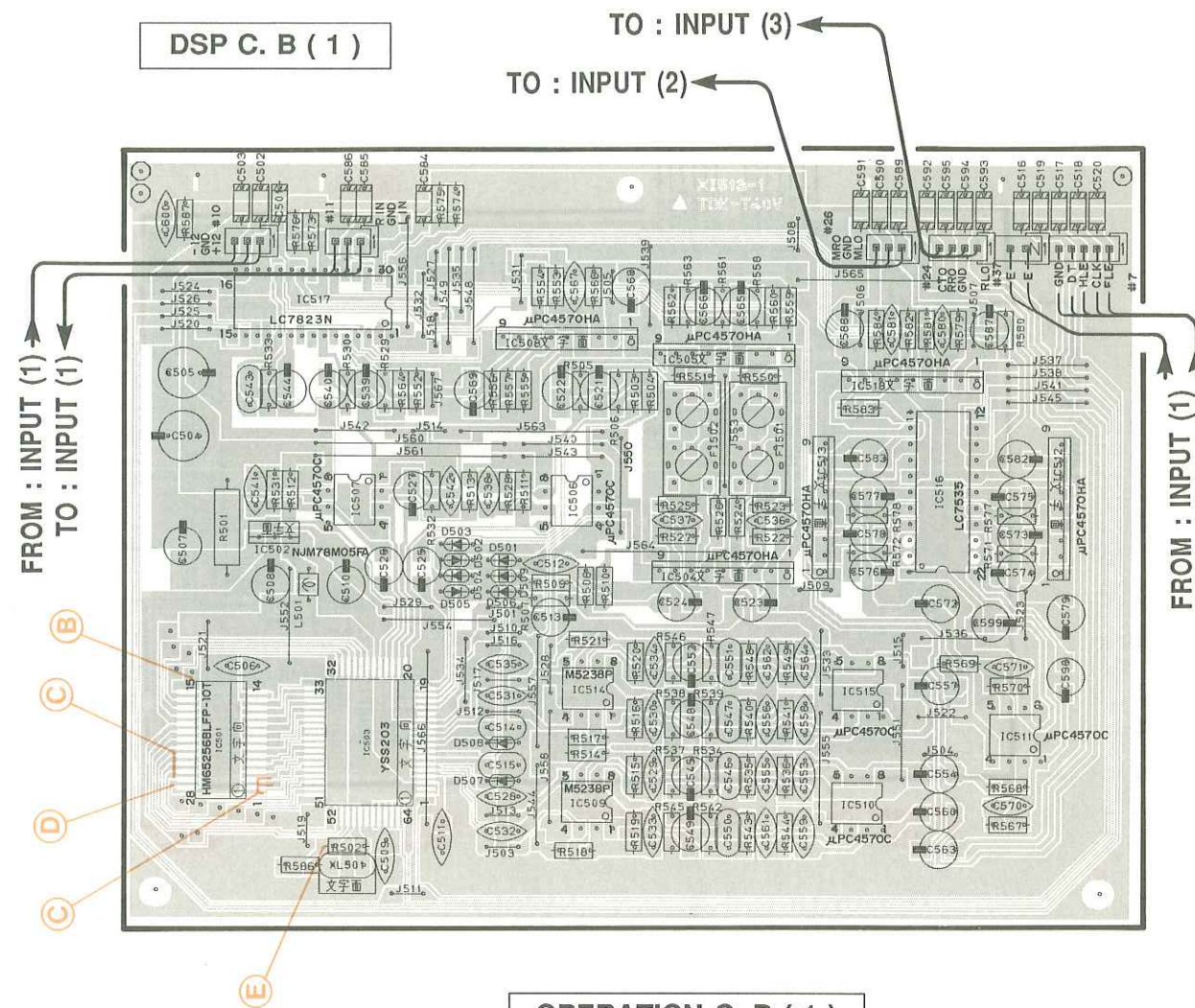
OPERATION C. B (2)



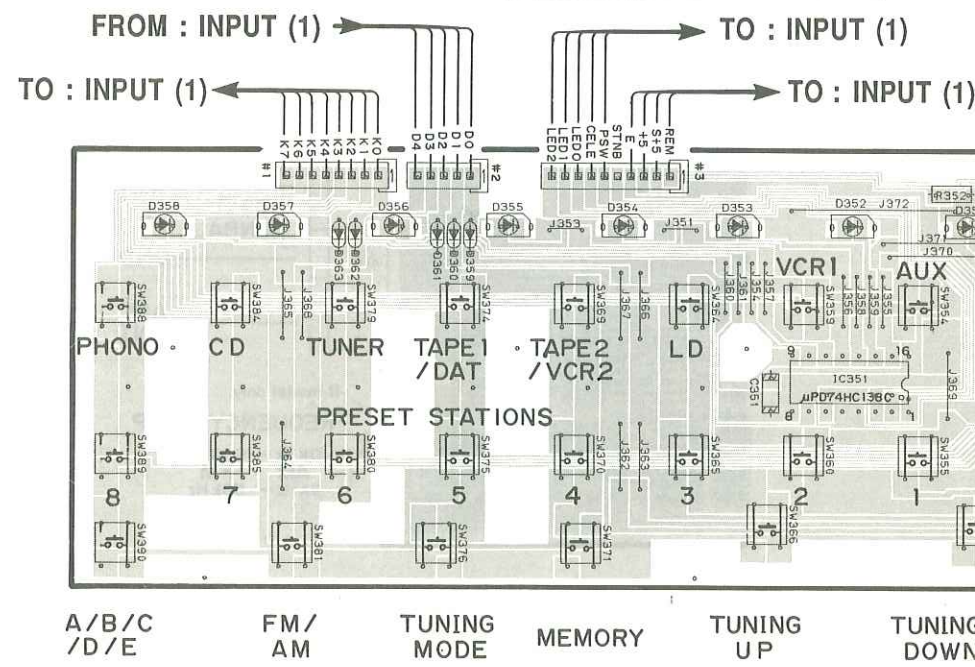
PRINTED CIRCUIT BOARD (Foil side)

Note) 文字面 : Component side

(B) to (H) : WAVEFORM OF TEST POINT (See page 38)



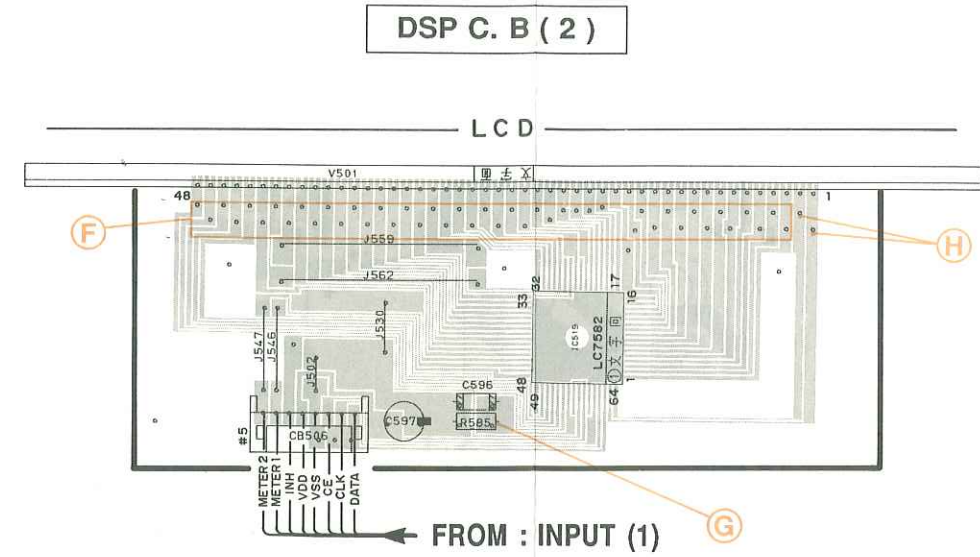
OPERATION C. B (1)



DIGITAL SOUND FIELD PROCESSOR

OFF CONCERT HALL ROCK CONCERT MONO CONCERT VIDEO ENHANCED PRO CENTER MODE TEST

A/B/C /D/E FM/AM TUNING MODE MEMORY TUNING UP TUNING DOWN + REAR LEVEL - + CENTER LEVEL - + FRONT EFFECT LEVEL - + DELAY TIME -



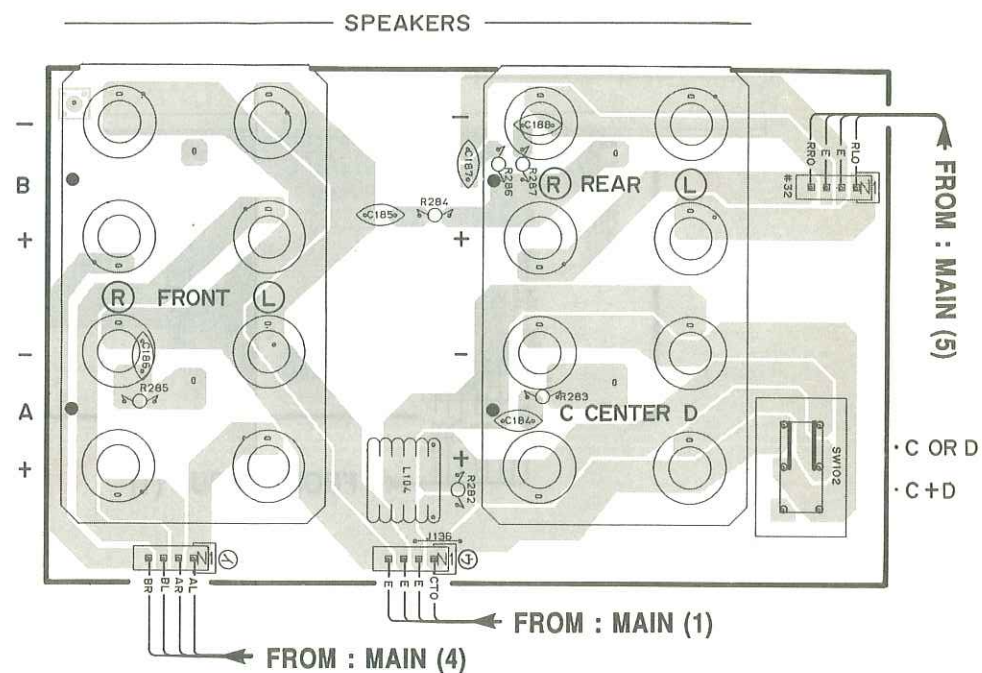
Semiconductor Location

Ref. No.	Location	Ref. No.	Location	Ref. No.	Location	Ref. No.	Location
D 351	C5	D 362	B5	IC 351	C5	IC 511	D3
D 352	C5	D 363	B5	IC 501	A3	IC 512	D2
D 353	C5	D 501	B3	IC 502	B2	IC 513	C2
D 354	B5	D 502	B3	IC 503	B3	IC 514	B3
D 355	B5	D 503	B3	IC 504	C3	IC 515	C3
D 356	B5	D 504	B3	IC 505	C2	IC 516	C2
D 357	A5	D 505	B3	IC 506	B2	IC 517	B2
D 358	A5	D 506	B3	IC 507	B2	IC 518	C2
D 359	B5	D 507	B3	IC 508	B2	IC 519	F2
D 360	B5	D 508	B3	IC 509	B3		
D 361	B5	D 509	B3	IC 510	C3		

PRINTED CIRCUIT BOARD (Foil side)

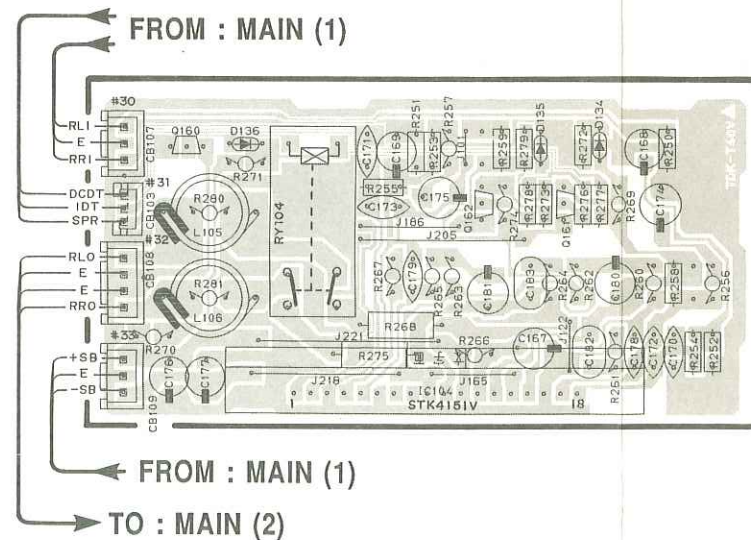
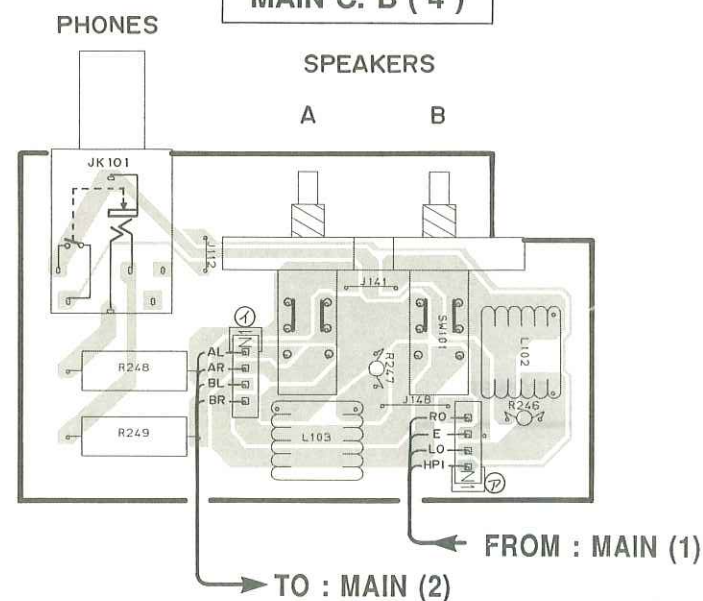
Note) 文字面 : Component side

MAIN C. B (2)

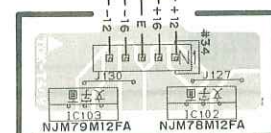


MAIN C. B (4)

MAIN C. B (5)

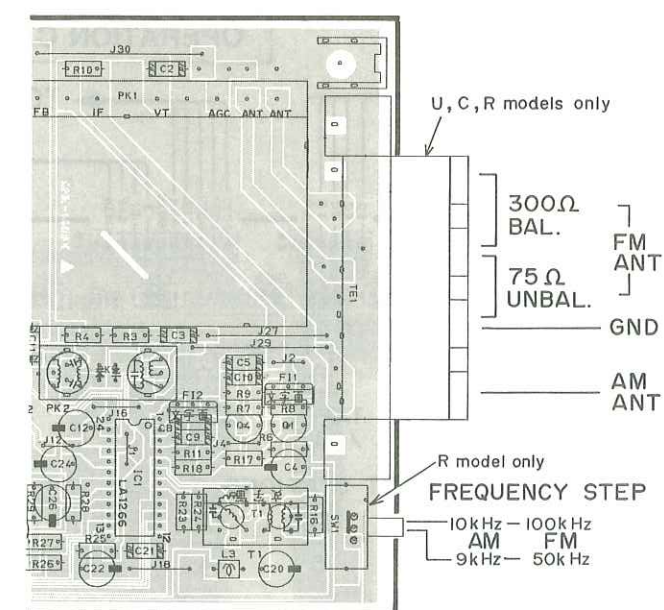
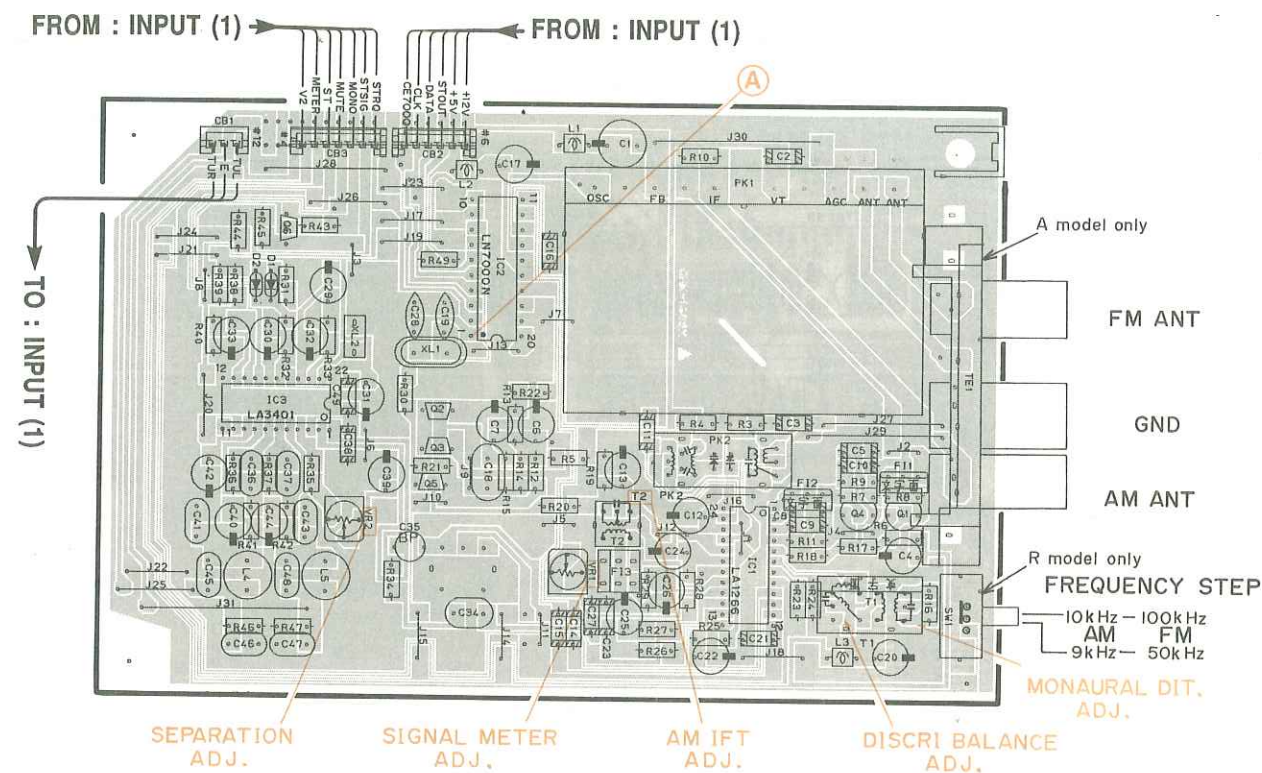


MAIN C. B (8)



TUNER C. B (1)

(A) : WAVEFORM OF TEST POINT (See page 36)

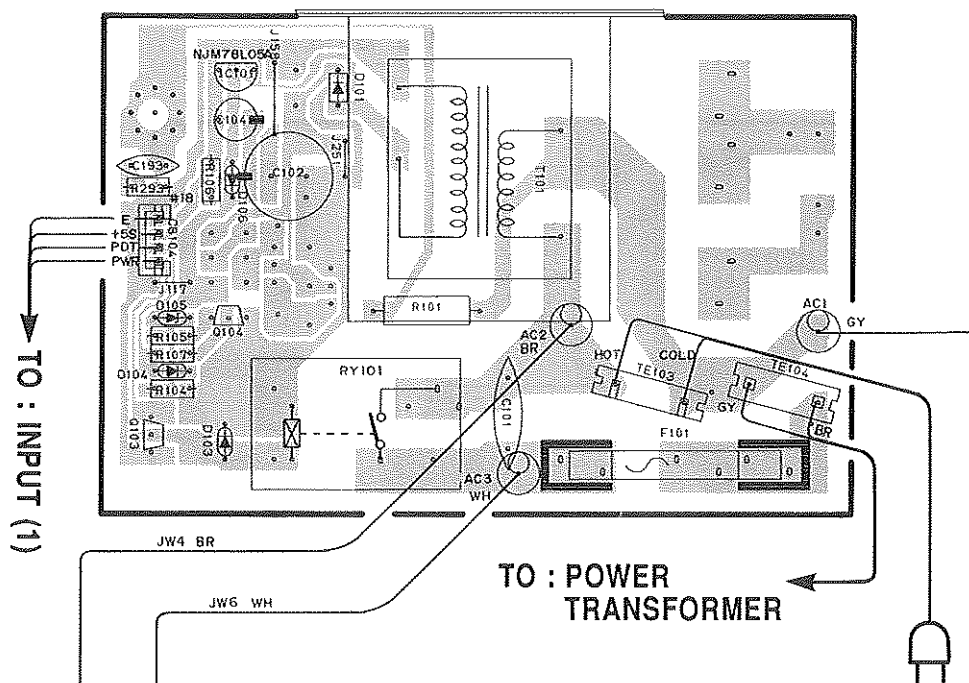


PRINTED CIRCUIT BOARD (Foil side)

Note) 文字面 : Component side

● U, C models

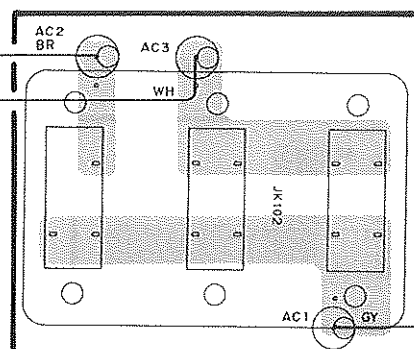
MAIN C. B (3)



MAIN C. B (6)

AC OUTLETS

UNSWITCHED | SWITCHED



200W MAX. | 100W MAX. TOTALU model

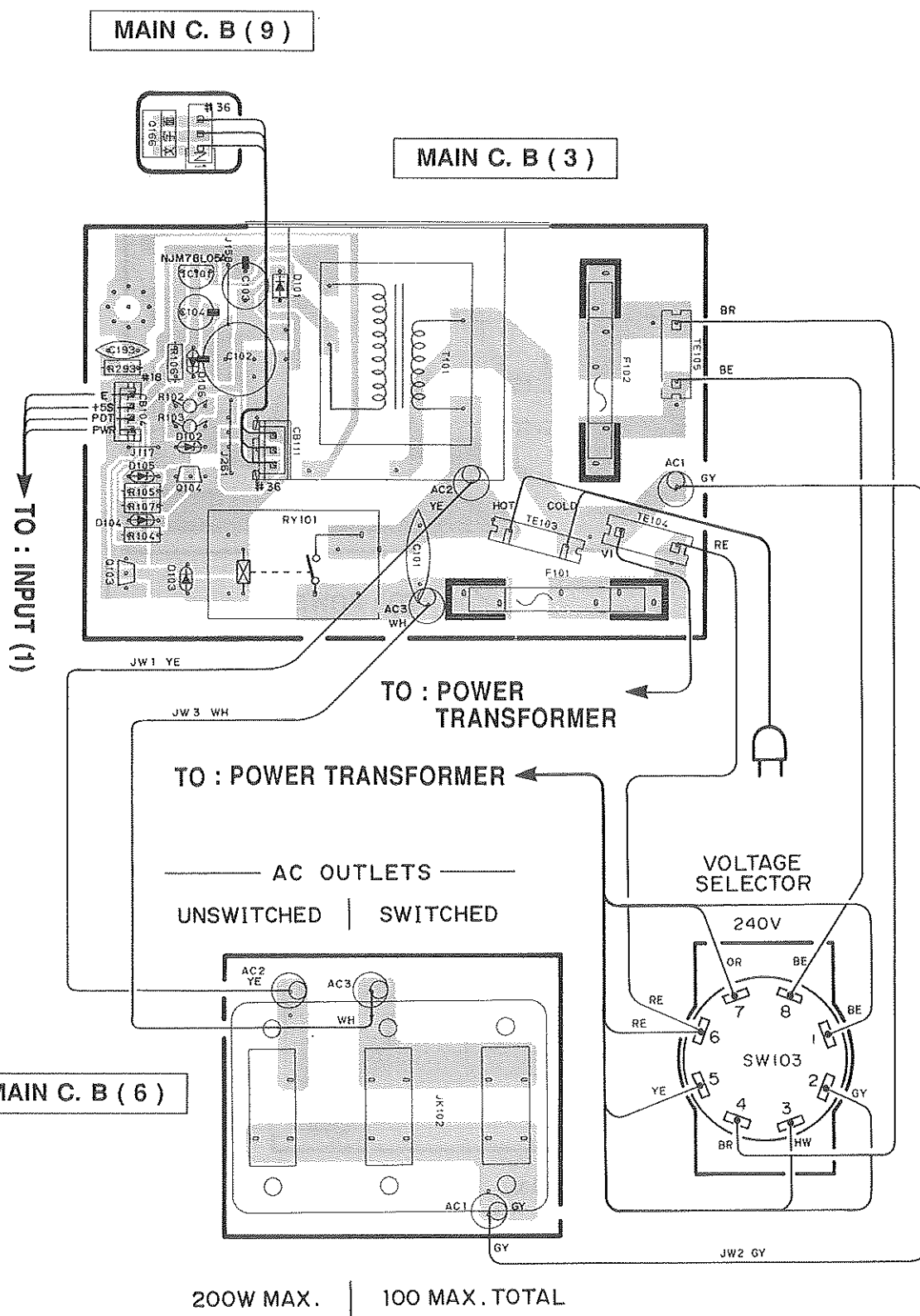
120W MAX. | 120W MAX. TOTAL]C model
1/5A MAX. | 1.0A MAX. TOTAL]

120V 60Hz | 120V 60Hz

PRINTED CIRCUIT BOARD (Foil side)

Note) 文字面 : Component side

● R model

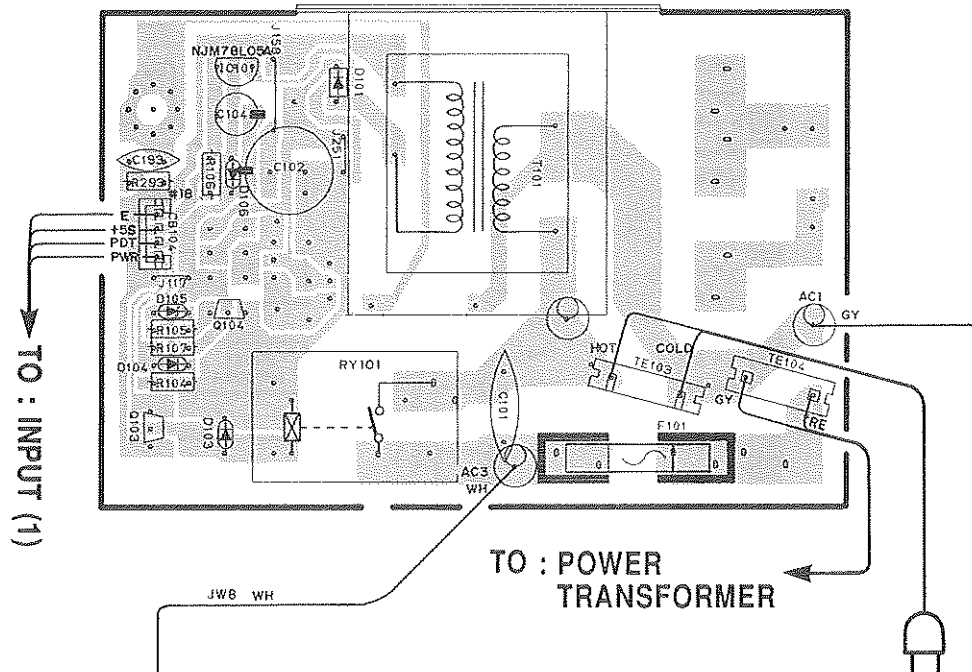


PRINTED CIRCUIT BOARD (Foil side)

Note) 文字面 : Component side

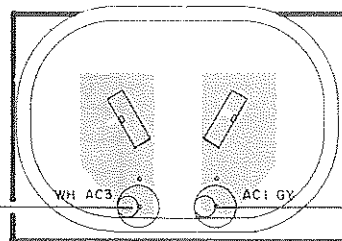
● A model

MAIN C. B (3)



MAIN C. B (7)

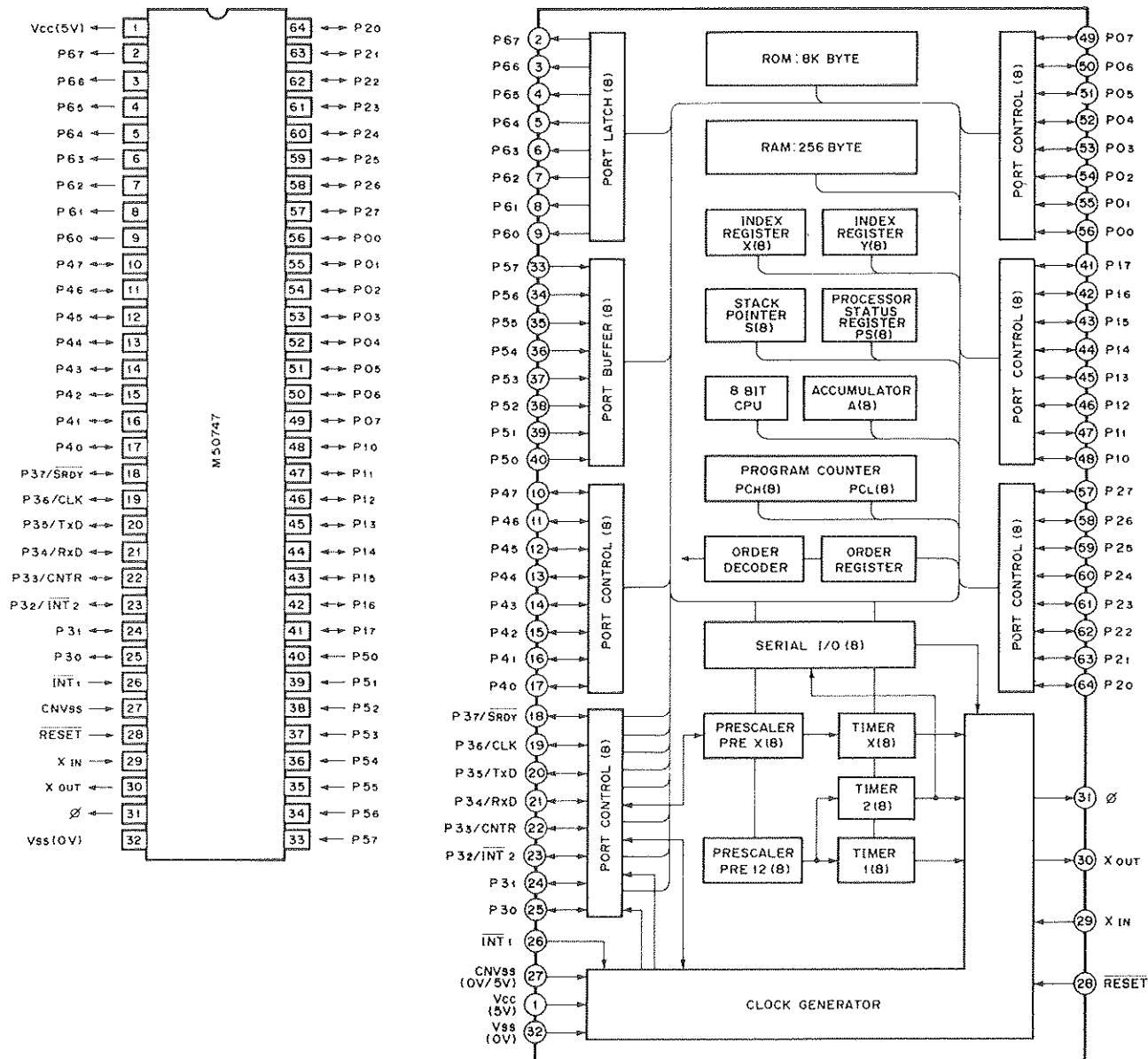
AC OUTLETS



SWITCHED
100W MAX.

■ IC DATA

IC718 : M50747ESP or M50747-E85
8bit μ -COM



Video select (Table A)

VS0 (3)	CS1 (4)	Function
0	0	VCR 2
1	0	LD
0	1	VCR 1
1	1	AUX

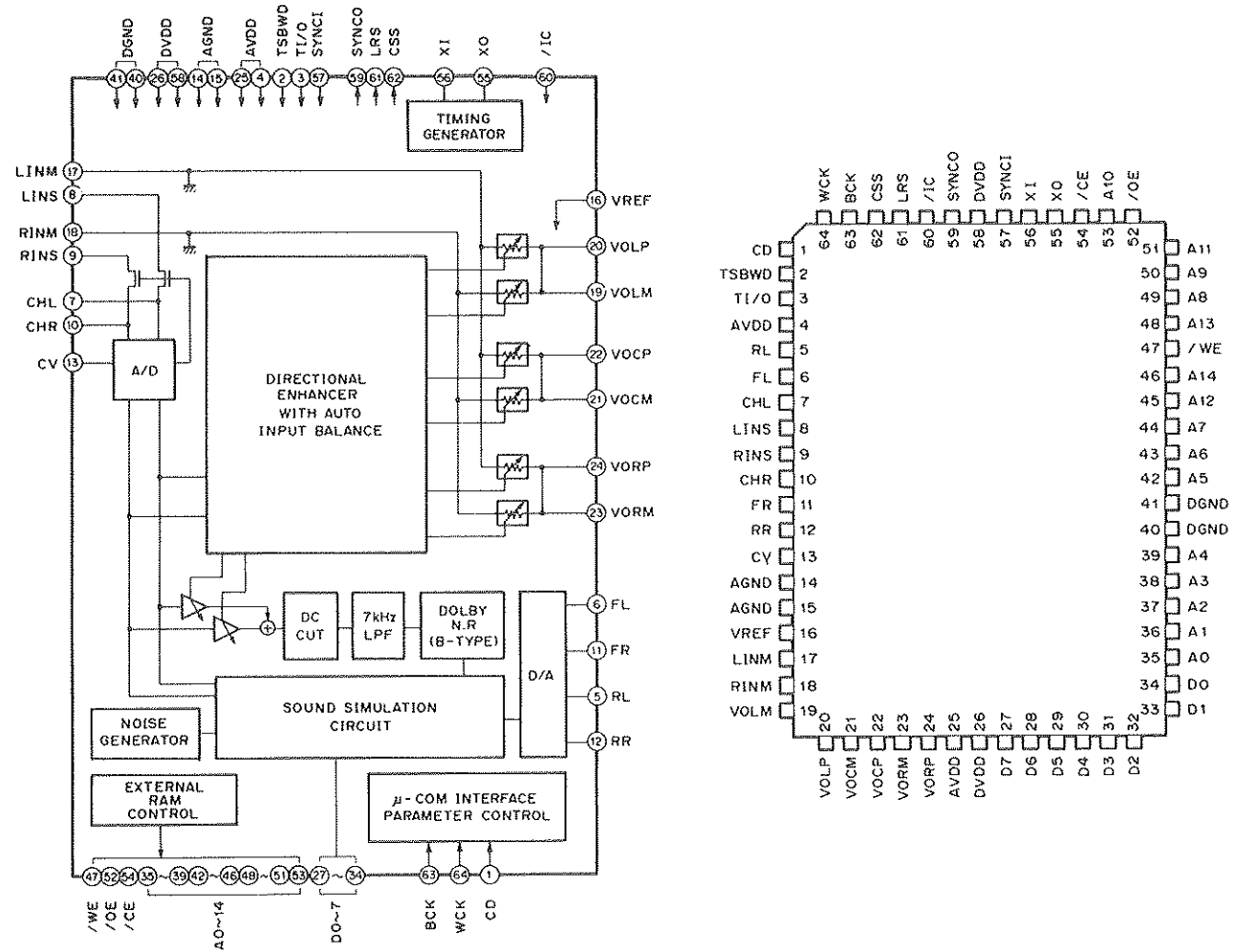
Market select (Table B)

V1 (63)	V2 (62)	Mrket
0	0	J
1	0	G
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	VSO	O	H/L	Video select Table A
4	P65	VSI	O	H/L	
5	P64	CEVL	O	H	
6	P63	CEF	O	H	Chip select For center/rear volume For front volume/function For DSP
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		O	L	N. C
12	P45		O	L	
13	P44		O	L	
14	P43		O	L	
15	P42		O	L	
16	P41		O	L	
17	P40	CELC	O	H	Chip select of LC7582
18	P37/SRDY		O	—	N. C
19	P36/CLK	CLKI	I	H/L	Clock data for serial transmission
20	P35/TXD	DATA	O	H/L	
21	P34/RXD	CLKO	O	H/L	
22	P33/CNTR	INH	O	L	LCD INHIBIT
23	P32/INT2	PWR	O	H	Power relay
24	P31	PDET	I	H	Power detect
25	P30	REM	I	H/L	Remove control signal input
26	INT1	INT	I	L	External interrupt
27	CNVSS	CN VSS	—		GND
28	RESET	RES	—	L	Reset
29	XIN	XIN	—		Clock(8MHz)
30	XOUT	XOUT	—		
31	Ø	—	—		N. C
32	VSS	VSS	—		GND
33	P57	K7	I	H	Key input
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	Digit output
41	P17	D4	O	H	
42	P16	D3	O	H	
43	P15	D2	O	H	
44	P14	D1	O	H	
45	P13	D0	O	H	LED for input
46	P12	LED2	O	H/L	
47	P11	LED1	O	H/L	
48	P10	LED0	O	H/L	Chip select for LED driver
49	P07	CELED	O	H	
50	P06	PSW	I	H	Power switch detect
51	P05	STNB	O	L	Unused
52	P04	VLO	O	H	Motor volume down
53	P03	VLU	O	H	Motor volume up
54	P02	INO	O	H	Volume LED
55	P01	TMT	O	L	Tuner mute
56	P00	STR	I	L	Stereo detect
57	P27	MONO	O	L	Forced MONO
58	P26	SIG	I	L	Synchronous signal
59	P25	STO	I	L	Auto tuning stop command
60	P24	CET	O	H	Chip select for LM7000
61	P23	STRQ	O	H	STRQ for LM7000
62	P22	V2	I	H/L	Market select (Table B)
63	P21	V1	I	H/L	
64	P20	V0	I	H	Product mode (RX-V1050)

IC503 : YSS203
Digital Dolby Pro Logic Decoder with Auto Input Balance



Pin No.	Pin Name	I/O	Function
1	CD	I/O	Serial data of parameter data input
2	TSBWD	Ic	LSI test terminal Normally connected to DVDD
3	TI/O	Ic	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

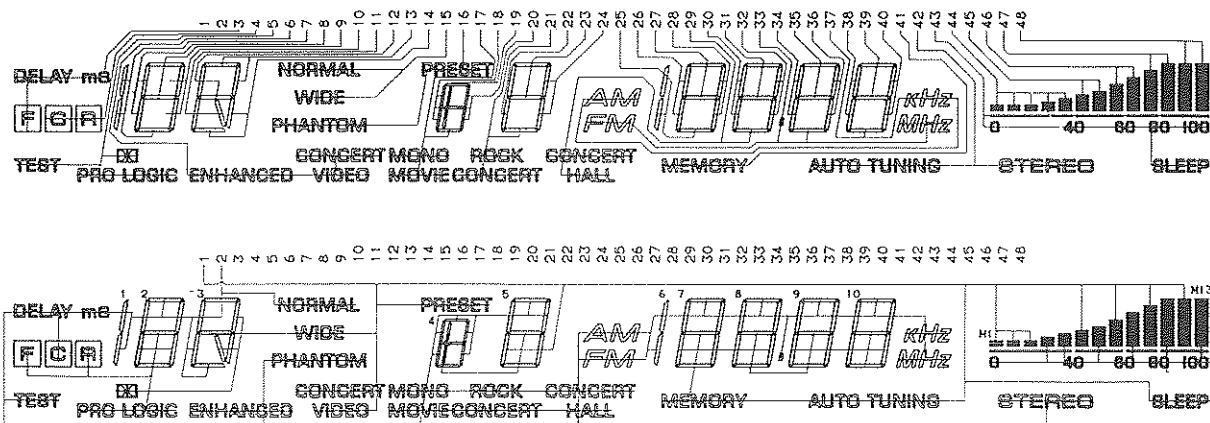
Pin No.	Pin Name	I/O	Function
21	VOCM	AO	C channel operation amplifier, connected to (–) terminal
22	VOCP	AO	C channel operation amplifier, connected to (+) terminal
23	VORM	AO	R channel operation amplifier, connected to (–) terminal
24	VORP	AO	R channel operation amplifier, connected to (+) terminal
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	DNND	—	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	SYNCI	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

■ DISPLAY DATA

● 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	8b	8 c	48	M13	M12

1) ☐ PRO LOGIC

2) CONCERT VIDEO

3) ROCK CONCERT

4) CONCERT HALL

5) 0 40 60 80 100

SCHEMATIC DIAGRAM (TUNER & OPERATION)

Each voltage given here represents that in the FM (88MHz, STEREO) reception mode but the one in the parentheses () is that in the AM (531kHz) reception mode.

RESISTOR

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
⊙	SEMI VARIABLE RESISTOR
■	CHIP RESISTOR

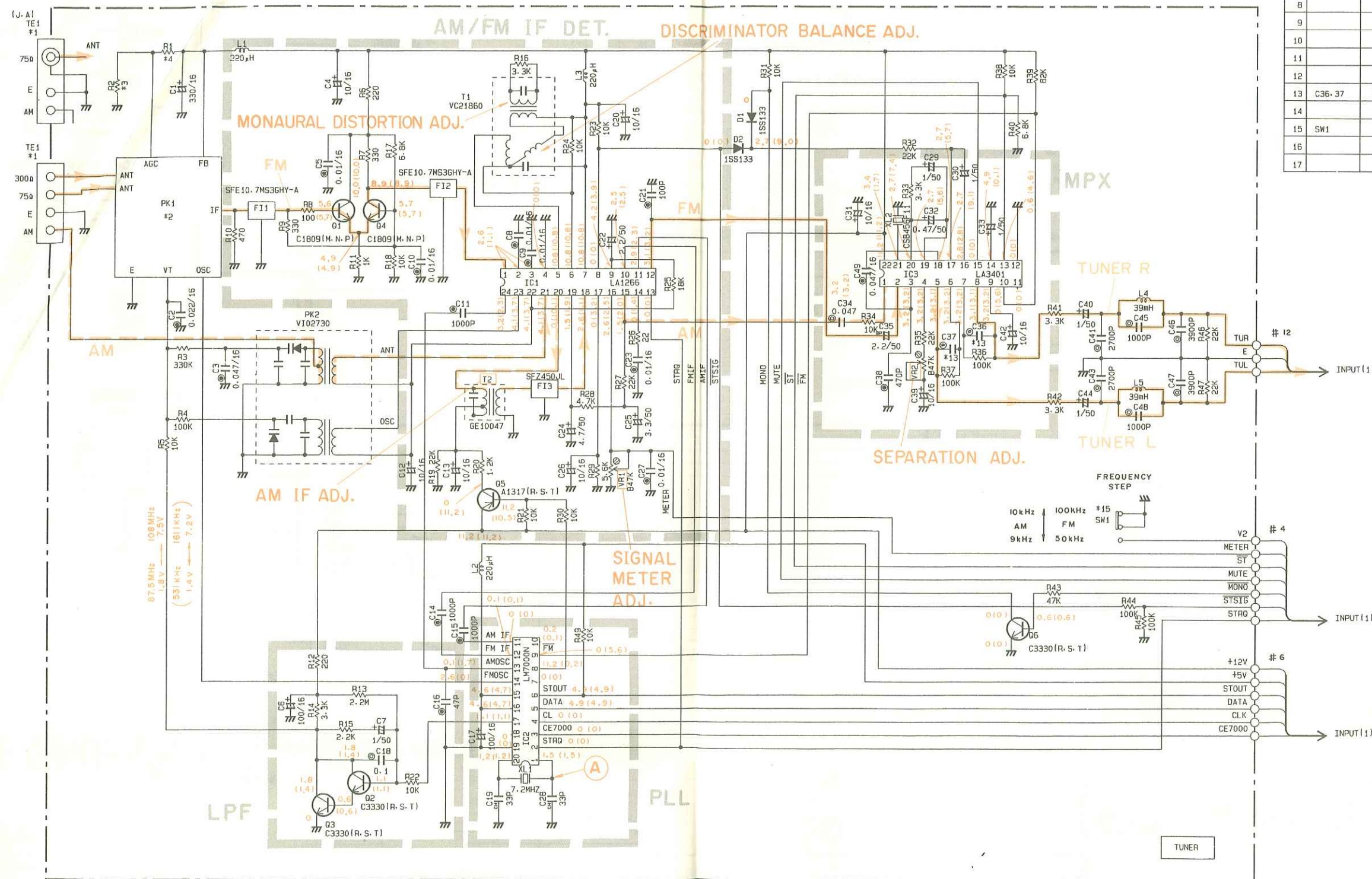
CAPACITOR

REMARKS	PARTS NAME
NO MARK	ELECTROLYTIC CAPACITOR
⊗	TANTALUM CAPACITOR
NO MARK	CERAMIC CAPACITOR
⊙	AXIAL READ CERAMIC CAPACITOR
⊙	POLYESTER FILM CAPACITOR
○	POLYSTYRENE FILM CAPACITOR
⊖	MICA CAPACITOR
⊖	POLYPROPYLENE FILM CAPACITOR
●	SEMICONDUCTIVE CERAMIC CAPACITOR

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

	J	U.C	R	A
1	TE1	LA00580	VA84590	LA00580
2	PK1	VK20850	VK20850	
3	R2	390K	OPEN	
4	R1	470K	OPEN	
5				
6				
7				
8				
9				
10				
11				
12				
13	C36, 37	470P/100	680P/100	470P/100
14				
15	SW1	OPEN	VF54120	OPEN
16				
17				

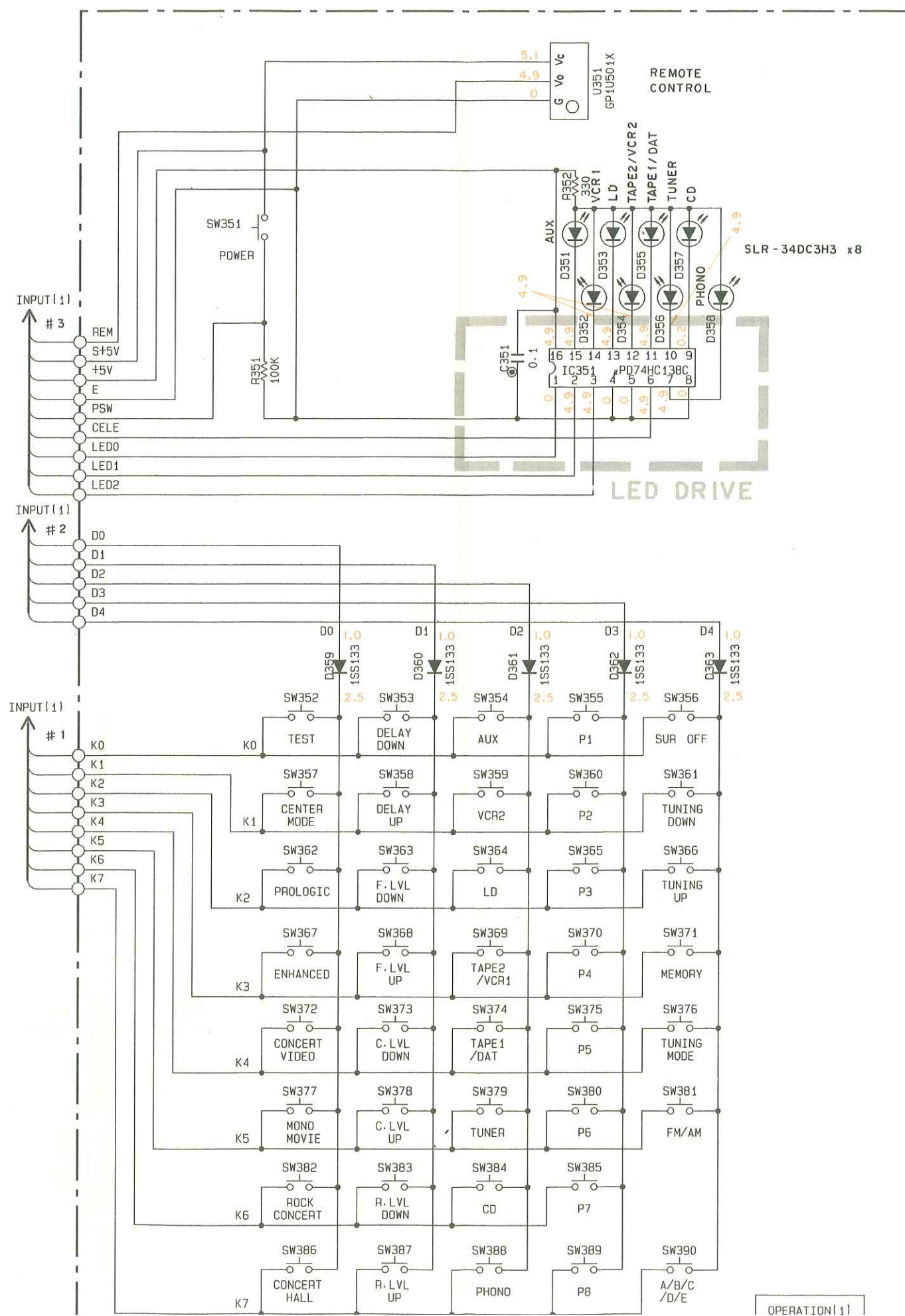
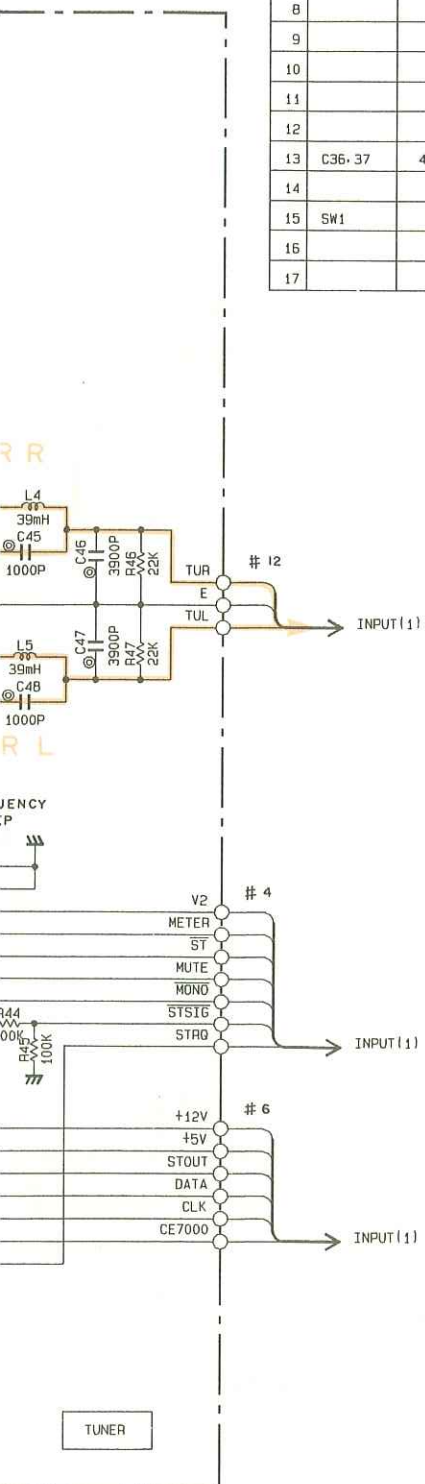


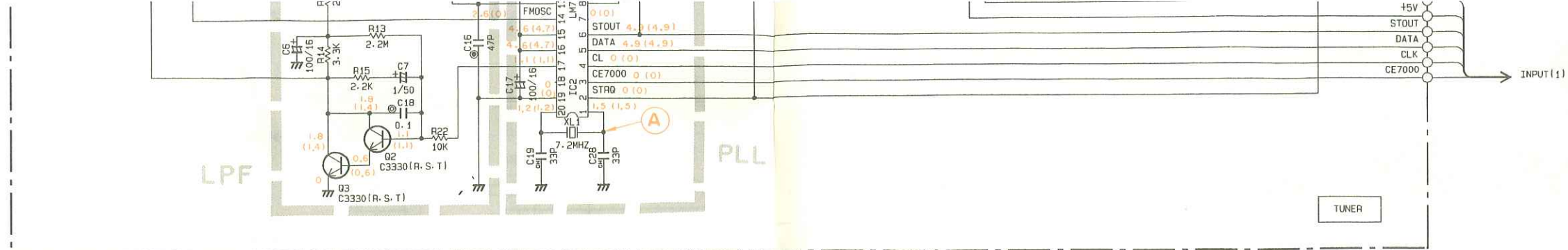
LAST NO.	
C	49
R	49
Q	6
D	2
IC	3

L4
39mH
C45
1000P

L5
39mH
C48
1000P

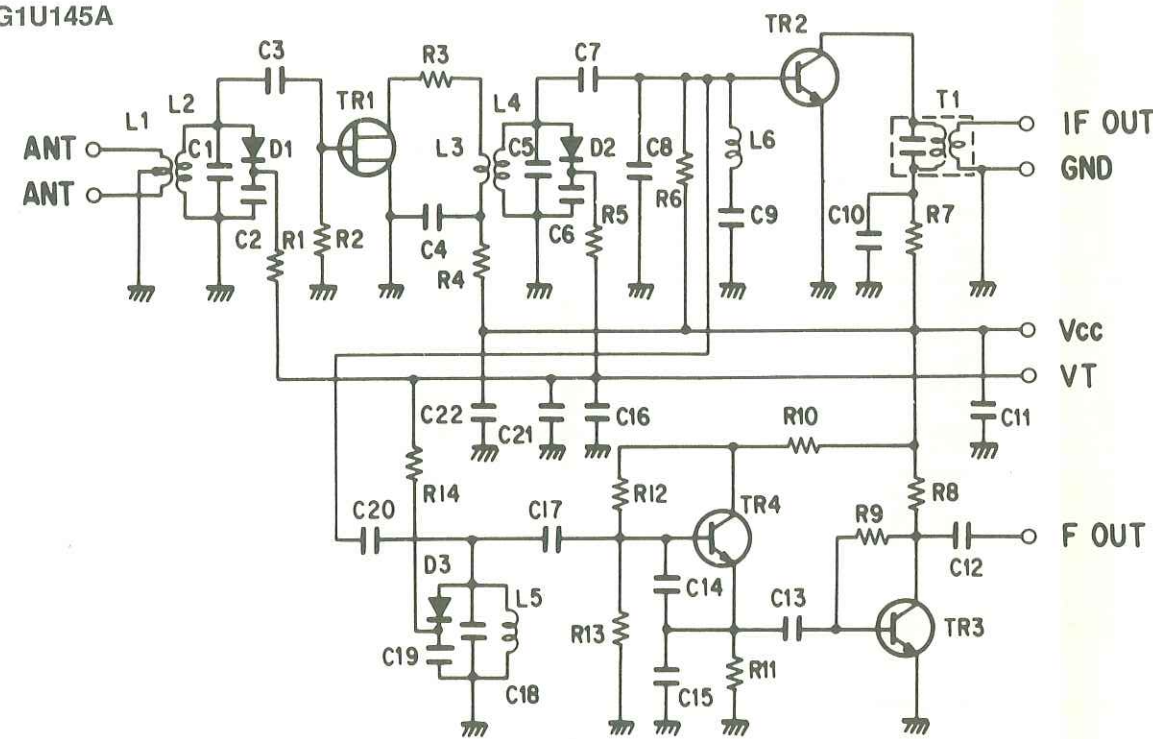
	LAST NO.
C	49
R	49
G	6
D	2
IC	3



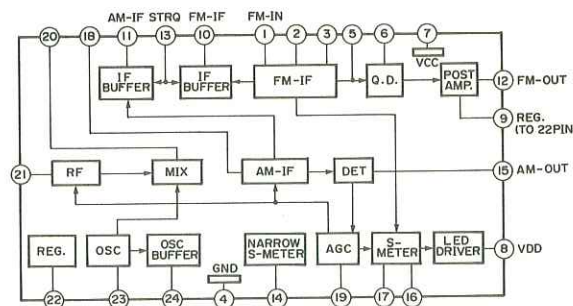


R	49
Q	6
D	2
IC	3

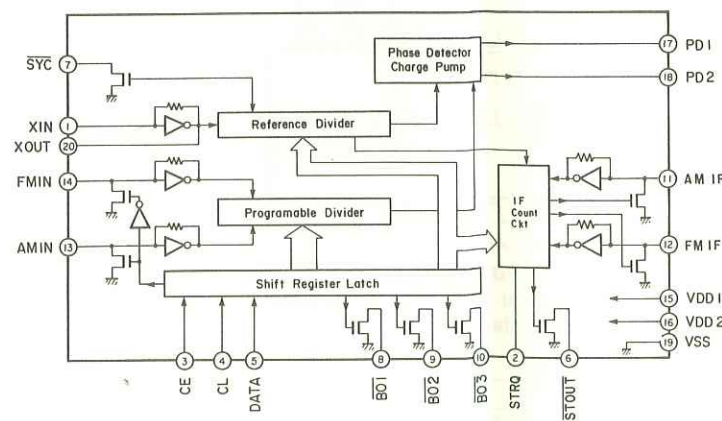
PK1 : TFFG1U145A



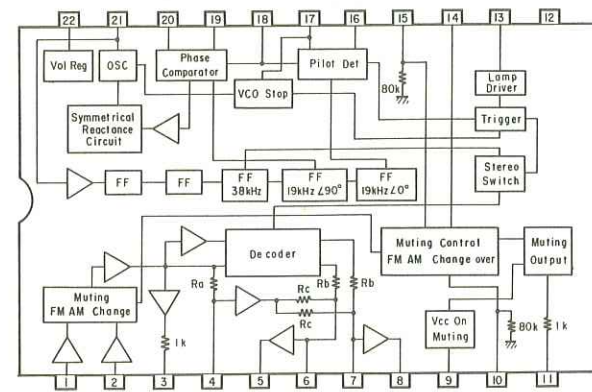
IC1 : LA1266
AM/FM IF



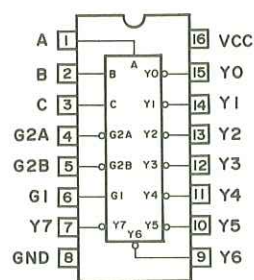
IC2 : LM7000N
PLL Controller



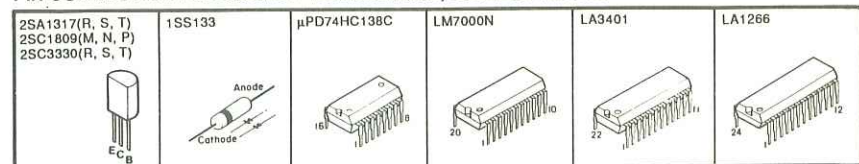
IC3 : LA3401
MPX



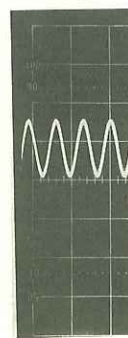
IC351 : μ PD74HC138C
3-to-8-Line Demultiplexer

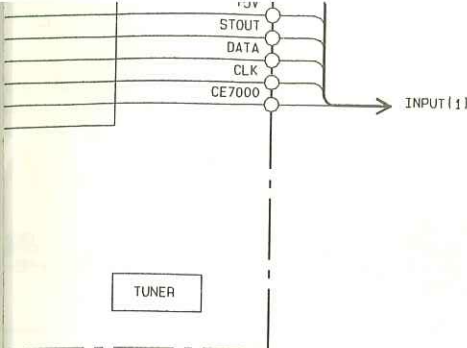


PIN CONNECTION DIAGRAM OF TRANSISTORS, DIODES AND ICs.

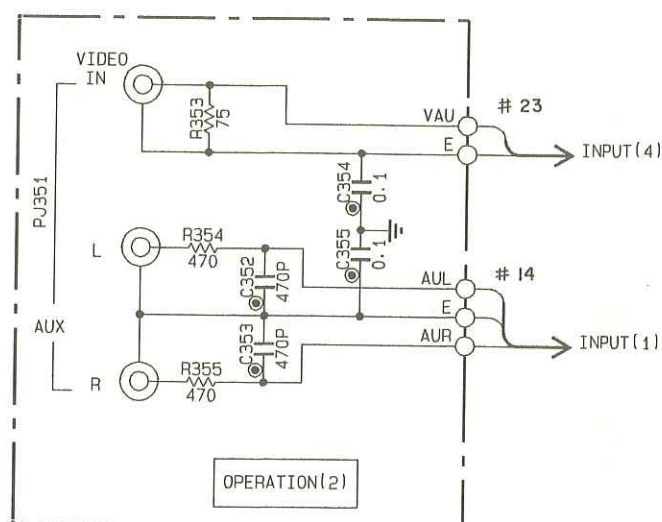
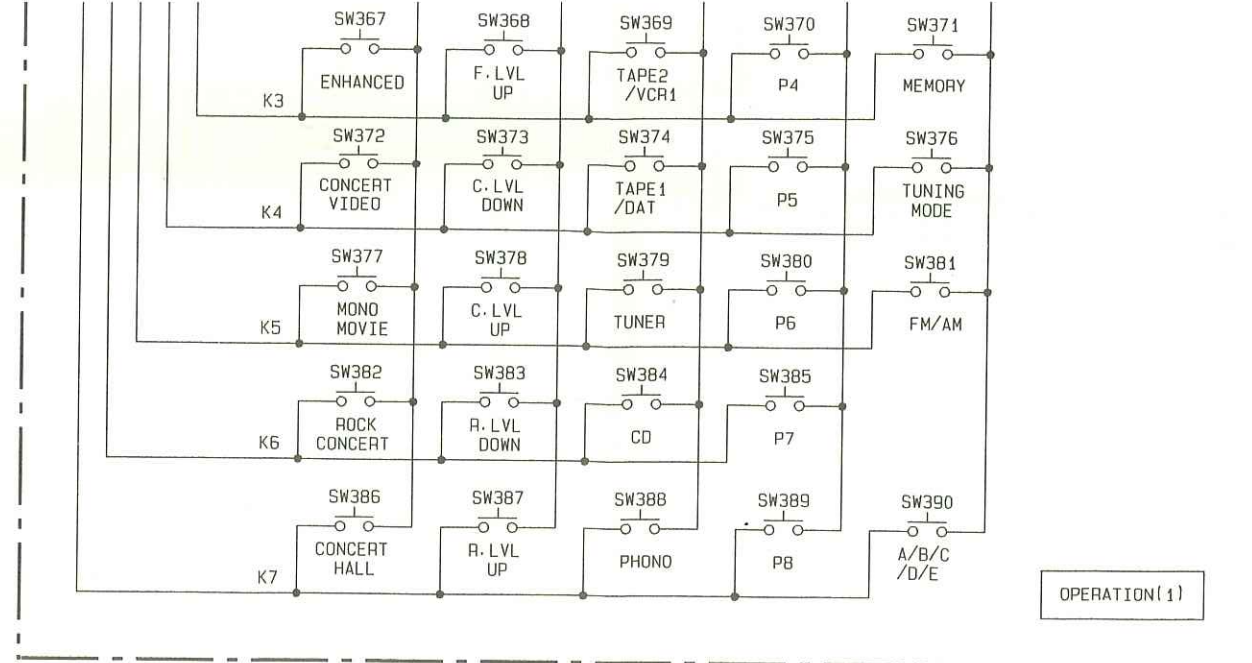


Point A :
(Pin 1 of IC2)
V : 0.2V/div,
DC range



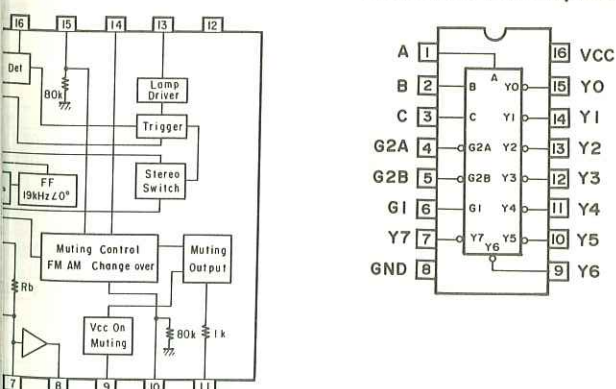


R	49
Q	6
D	2
IC	3

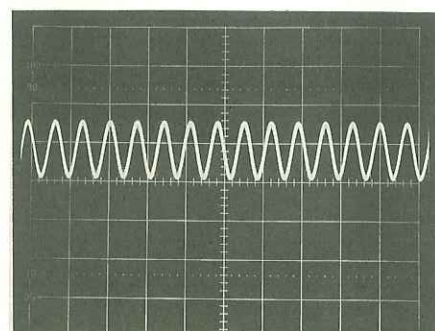


	LAST NO.
C	355
R	355
Q	
D	363
IC	351

IC351 : μ PD74HC138C
3-to-8-Line Demultiplexer



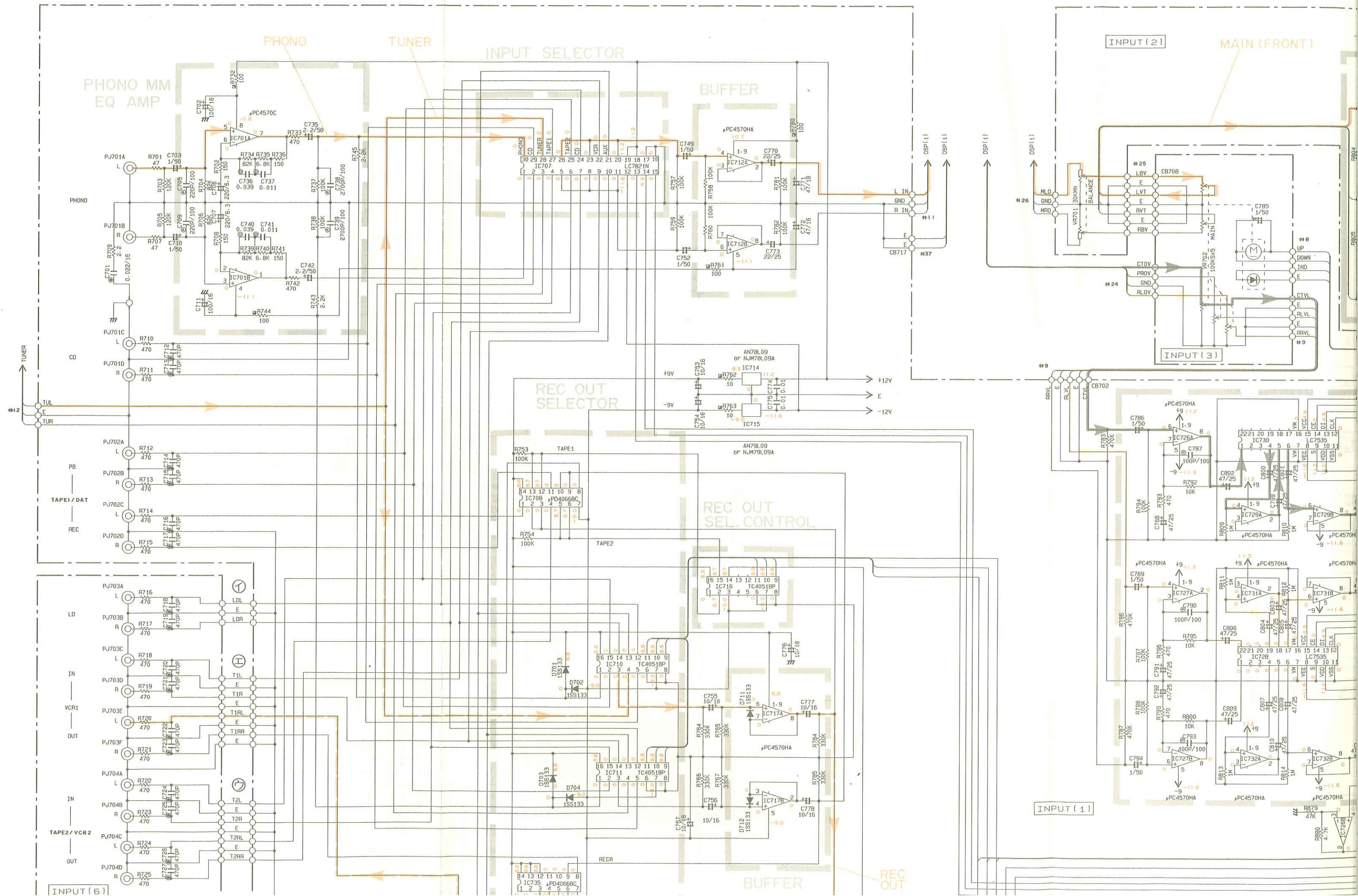
Point (A) : XIN
(Pin 1 of IC2)
V : 0.2V/div, H : 0.2 μ sec/div
DC range 10 : 1 probe

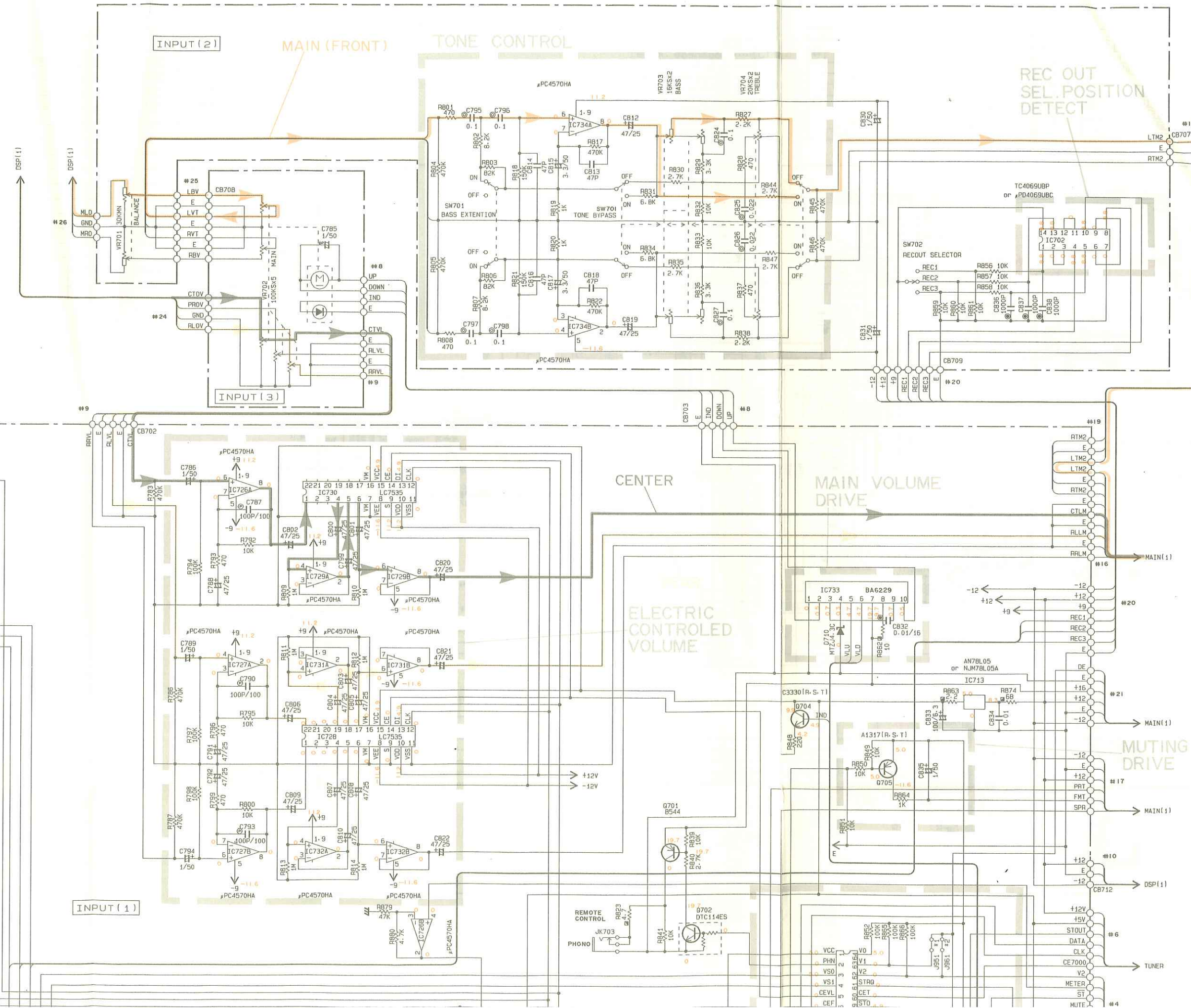


- * All voltage are measured with a 10M Ω /V DC electric volt meter.
- * Components having special characteristics are marked Δ and must be replaced with parts having specifications equal to those originally installed.
- * Schematic diagram is subject to change without notice.

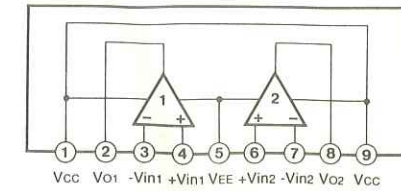
SCHEMATIC DIAGRAM (INPUT)

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

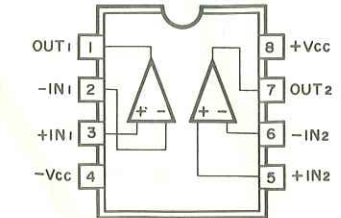




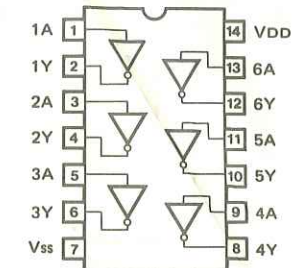
IC712, 717, 726, 727,
729, 731, 732, 734 : μ PC4570HA
Dual Ope-amp



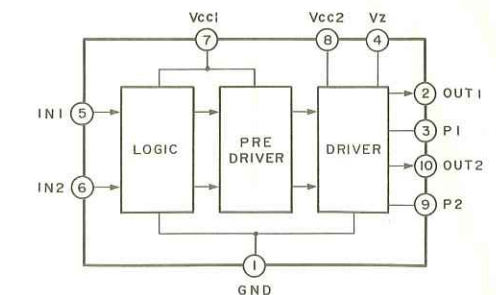
IC701 : μ PC4570C
Dual Ope-amp



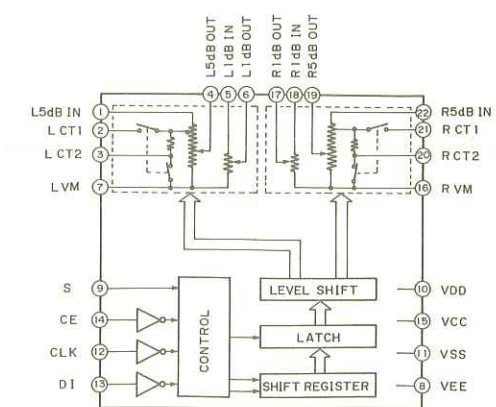
IC702 : TC4069UBP or μ PD4069UBC
Hex Inverter



IC733 : BA6229
Motor Driver



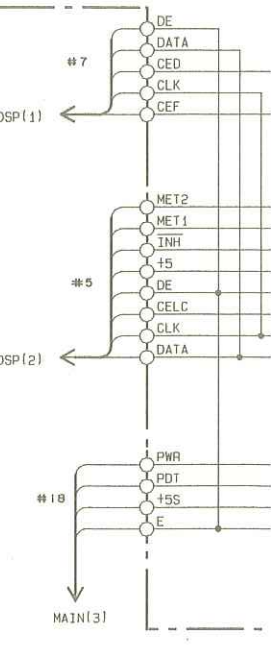
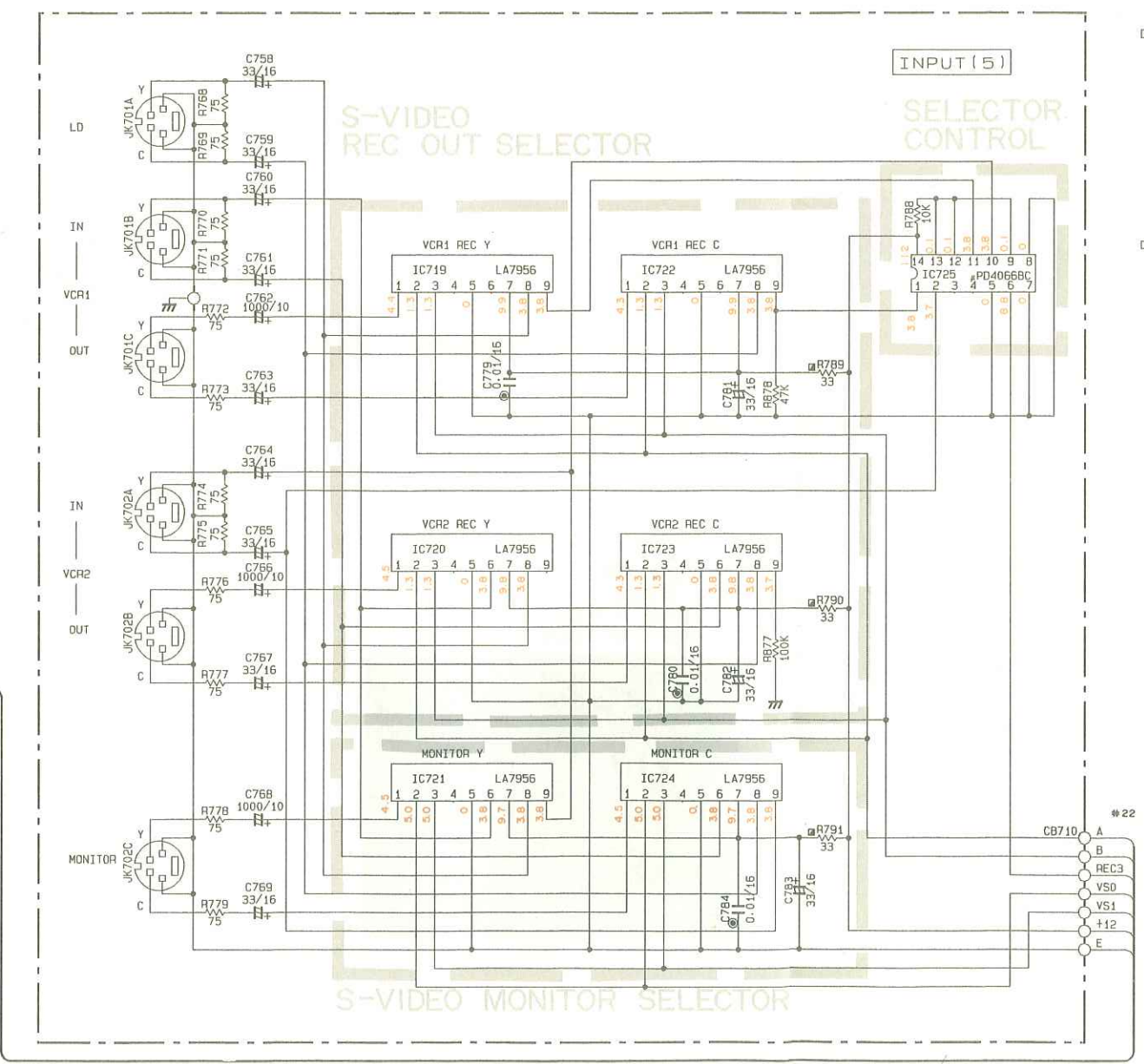
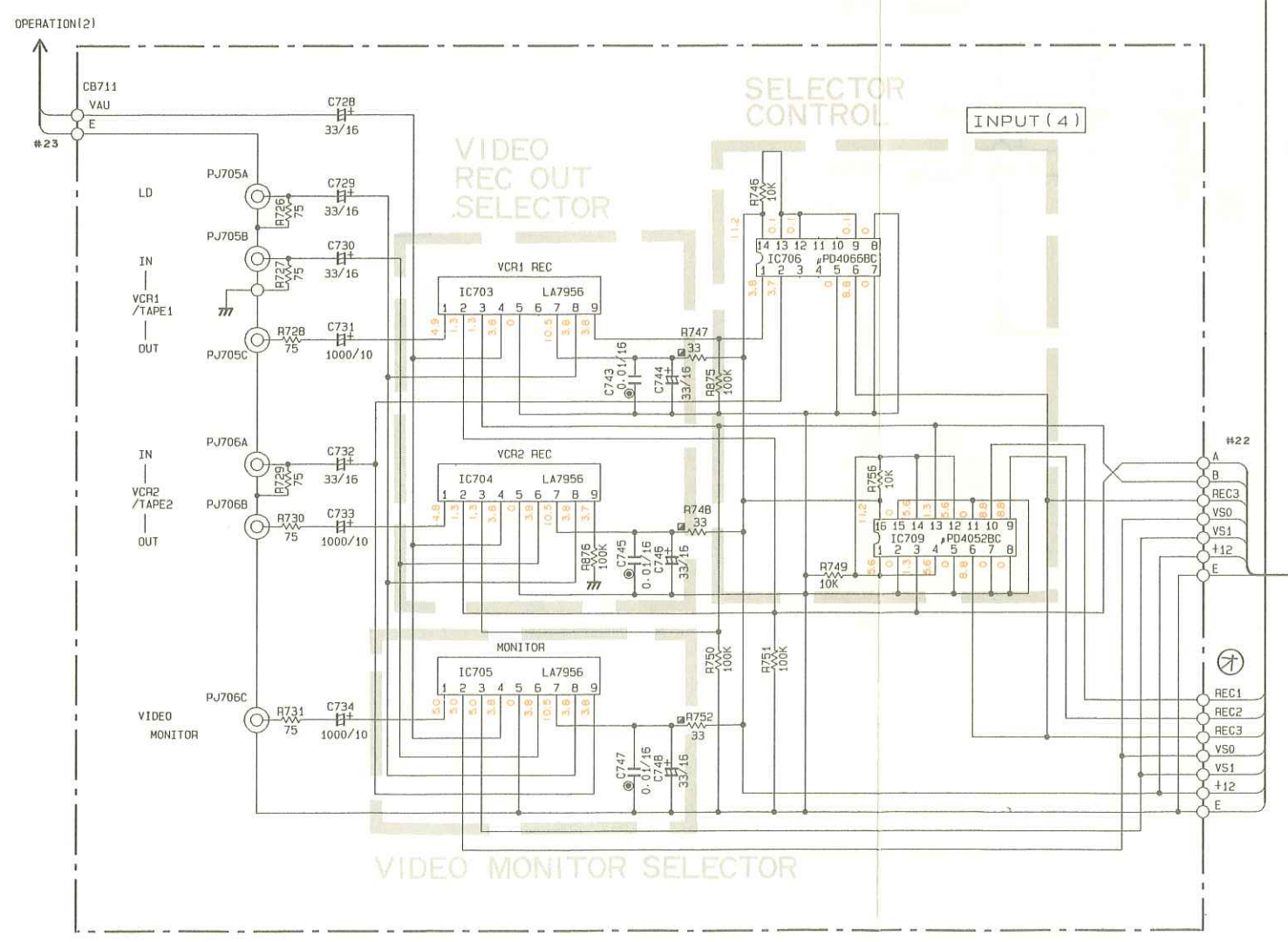
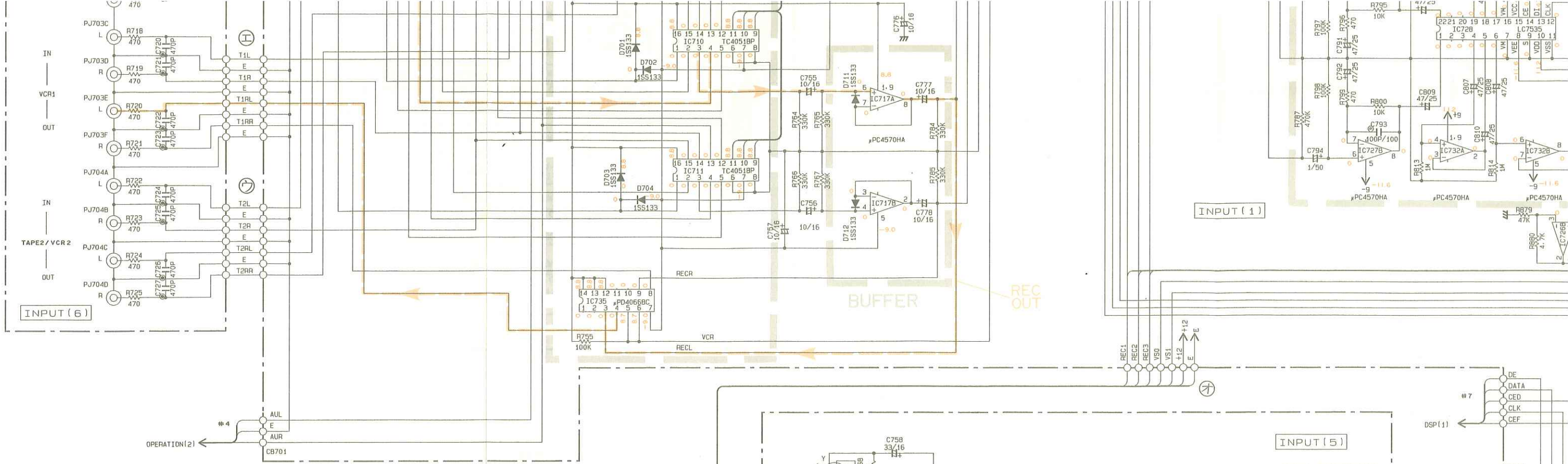
IC728, 730 : LC7535
Electric Controlled Volume



IC707 : LC7821N
Analog Function Switch



5
6
7
8
9
10

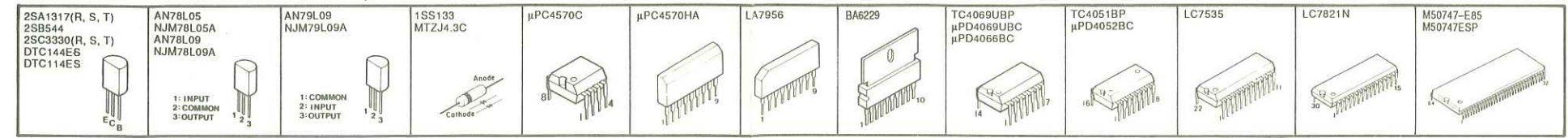


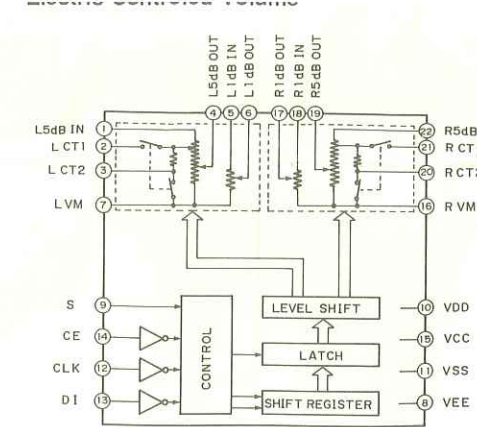
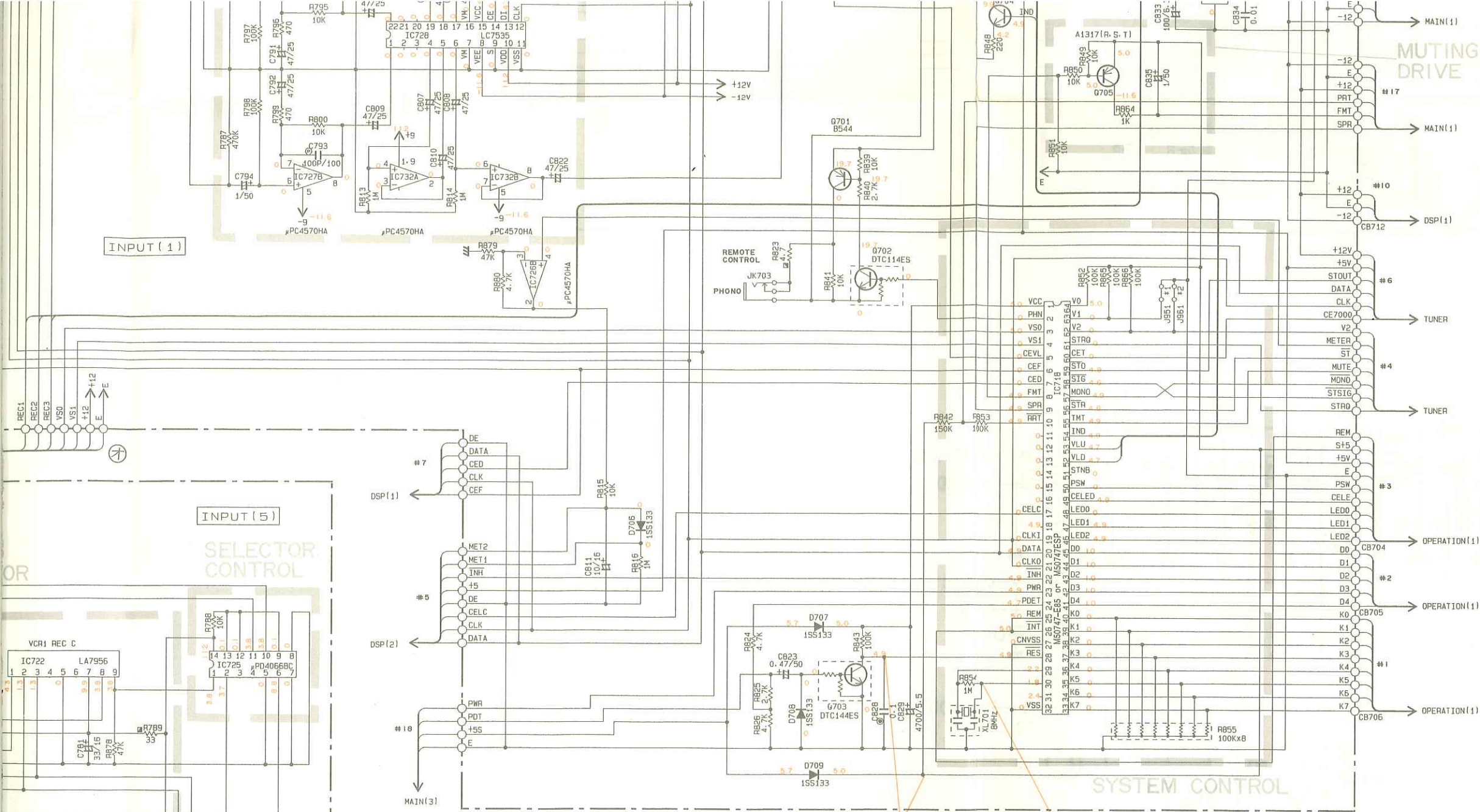
J	
1	J951 SHORT
2	J951 SHORT

RESISTOR	
REMARKS	PARTS
NO MARK	CARBON FILM F
⊠	CARBON FILM F
△	METAL OXIDE F
⊞	METAL FILM RE
⊠	METAL PLATE R
⊞	FIRE PROOF CA
⊠	CEMENT MOLDED
⊞	SEMI VARIABLE
⊠	CHIP RESISTOR

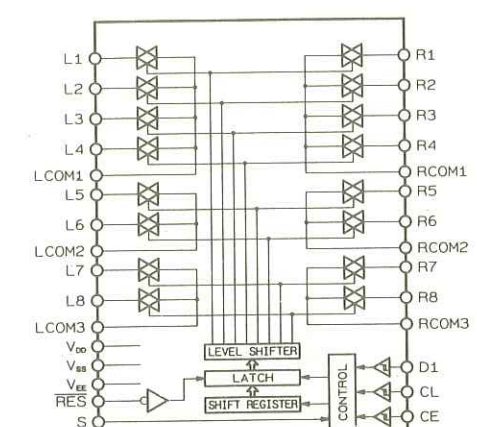
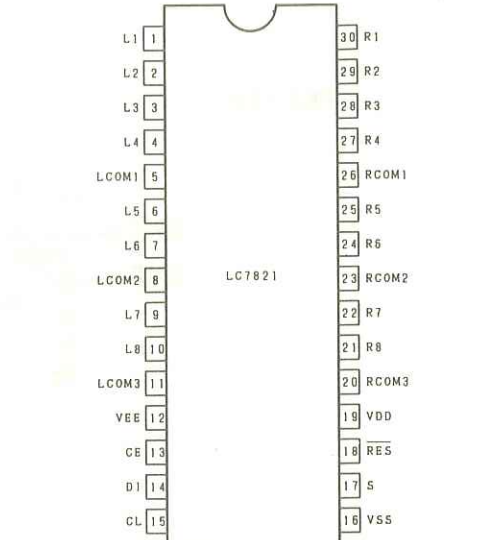
CAPACITOR	
REMARKS	PART
NO MARK	ELECTROLYTIC
⊠	TANTALUM CAP.
NO MARK	CERAMIC CAPA
⊞	AXIAL READ CE
⊞	POLYESTER FIL
⊞	POLYSTYRENE F
⊞	MICA CAPACIT
⊞	POLYPROPYLENE
⊞	SEMICONDUCTIV

PIN CONNECTION DIAGRAM OF TRANSISTORS, DIODES AND ICS.

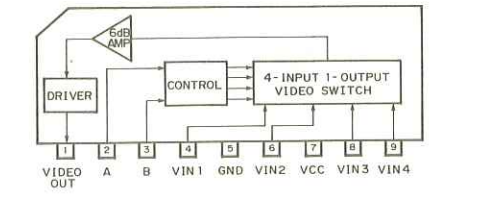




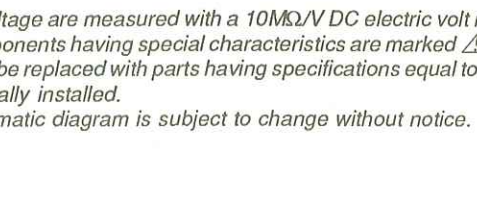
IC707 : LC7821N
Analog Function Switch



IC703~705, 719~724 : LA7956
Video Switch



IC709 : μPD4052BC
Differential 4-Channel Multiplexer/
Demultiplexer



IC710, 711, 716 : TC4051BP
Single 8-Channel Multiplexer/
Demultiplexer

#	J	U.C	R	A
1	J951	SHORT	SHORT	OPEN
2	J951	SHORT	OPEN	SHORT

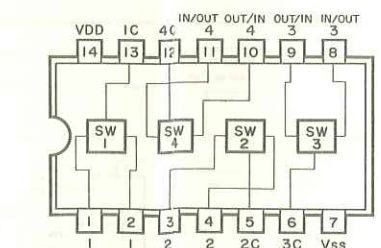
REMARKS	PARTS NAME
NO MARK	CARBON FILM RESISTOR (1/6W)
⊠	CARBON FILM RESISTOR (1/4W)
△	METAL OXIDE FILM RESISTOR
⊡	METAL FILM RESISTOR
⊞	METAL PLATE RESISTOR
⊞	FIRE PROOF CARBON FILM RESISTOR
⊞	CEMENT MOLDED RESISTOR
⊞	SEMI VARIABLE RESISTOR
⊞	CHIP RESISTOR

REMARKS	PARTS NAME
NO MARK	ELECTROLYTIC CAPACITOR
⊠	TANTALUM CAPACITOR
NO MARK	CERAMIC CAPACITOR
⊞	AXIAL READ CERAMIC CAPACITOR
⊞	POLYESTER FILM CAPACITOR
⊞	POLYSTYRENE FILM CAPACITOR
⊞	MICA CAPACITOR
⊞	POLYPROPYLENE FILM CAPACITOR
⊞	SEMICONDUCTIVE CERAMIC CAPACITOR

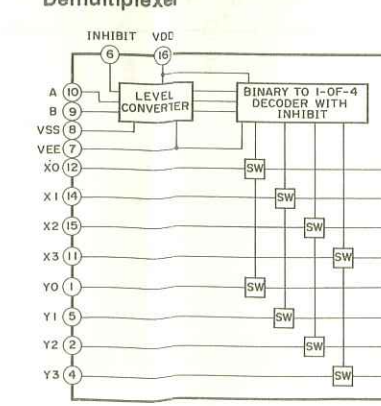
NOTICE
(J).... Japanese model
(U).... U.S.A model
(C).... Canadian model
(A).... Australian model
(G).... European model
(B).... British model
(R).... General model
(P).... RP model

C	LAST NO.
B38	
R	880
Q	705
D	712
IC	735

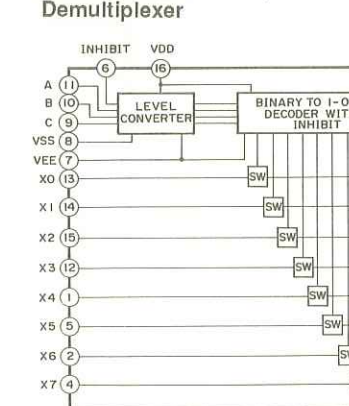
IC706, 708, 725, 735 : μPD4066BC
Quad Bilateral Switch



IC709 : μPD4052BC
Differential 4-Channel Multiplexer/
Demultiplexer



IC710, 711, 716 : TC4051BP
Single 8-Channel Multiplexer/
Demultiplexer



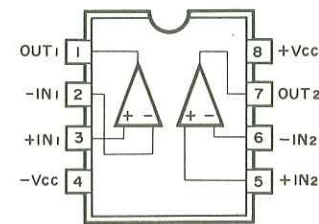
① to ⑩ : WAVEFORM OF TEST POINT (See page 21)

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

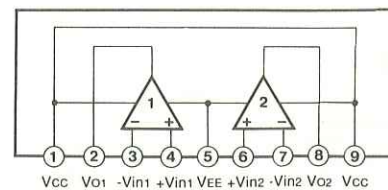
Each voltage given here represents that obtained when setting is at CD input and CONCERT HALL position.

SCHEMATIC DIAGRAM (DSP)

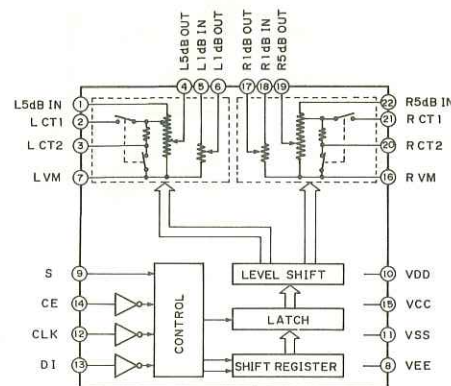
IC509, 514 : M5238P
IC506, 507, 510, 511, 515 : μ PC4570C
Dual Ope-amp



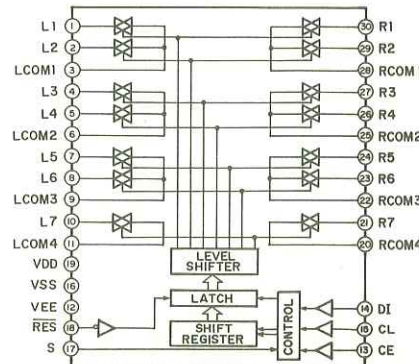
IC504, 505, 508, 512,
513, 518 : μ PC4570HA
Dual Ope-amp



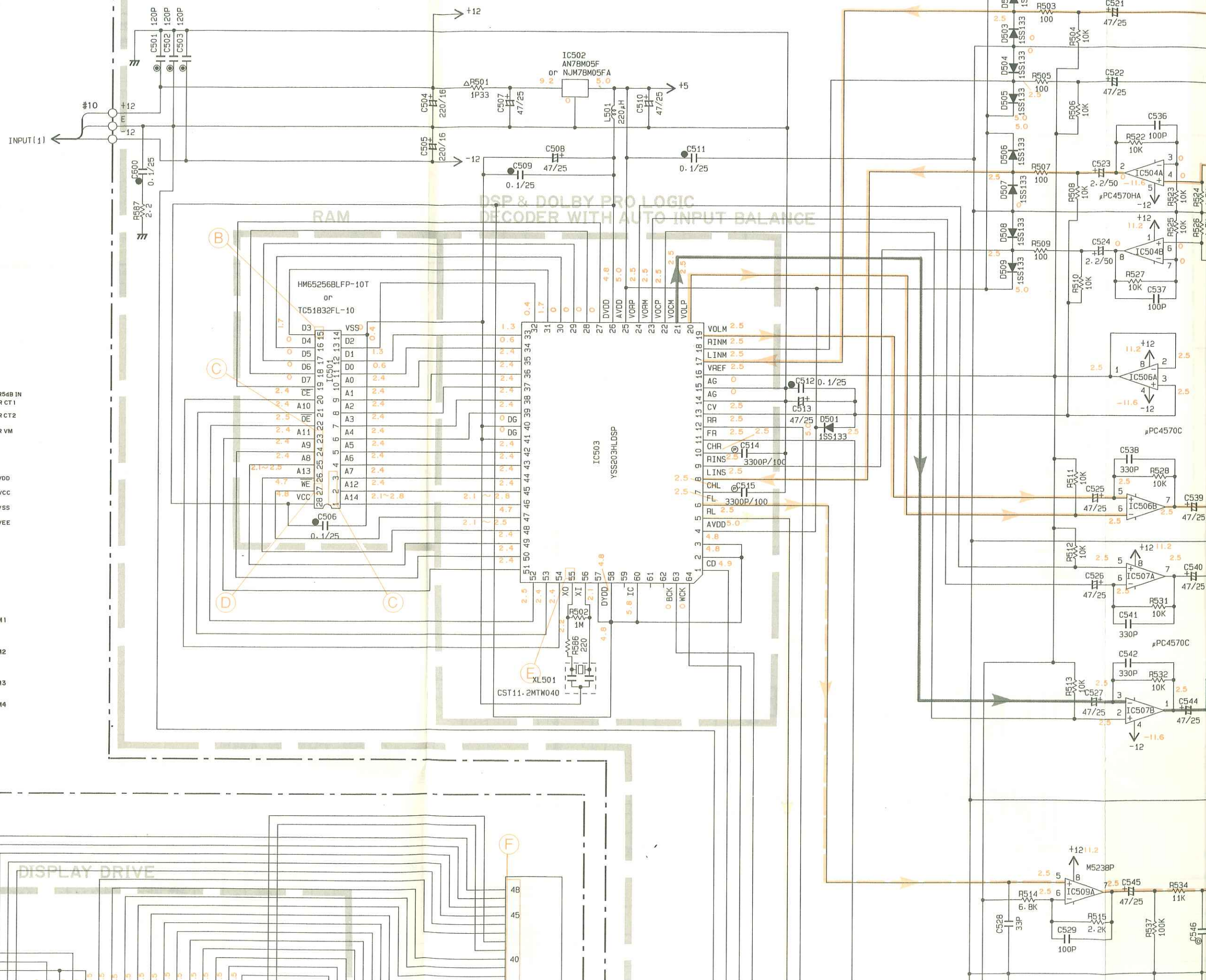
IC516 : LC7535
Electric Controlled Volume



IC517 : LC7823N
Analog Function Switch



DIGITAL SOUND FIELD PROCESSOR



PROCESSOR

ANCE

00

ELECTRIC
CONTROLLED
VOLUME

MAIN

EFFECT OFF

MAIN
(FRONT)

FRONT
EFFECT

CENTER

TEST
NOISE
ON
OFF

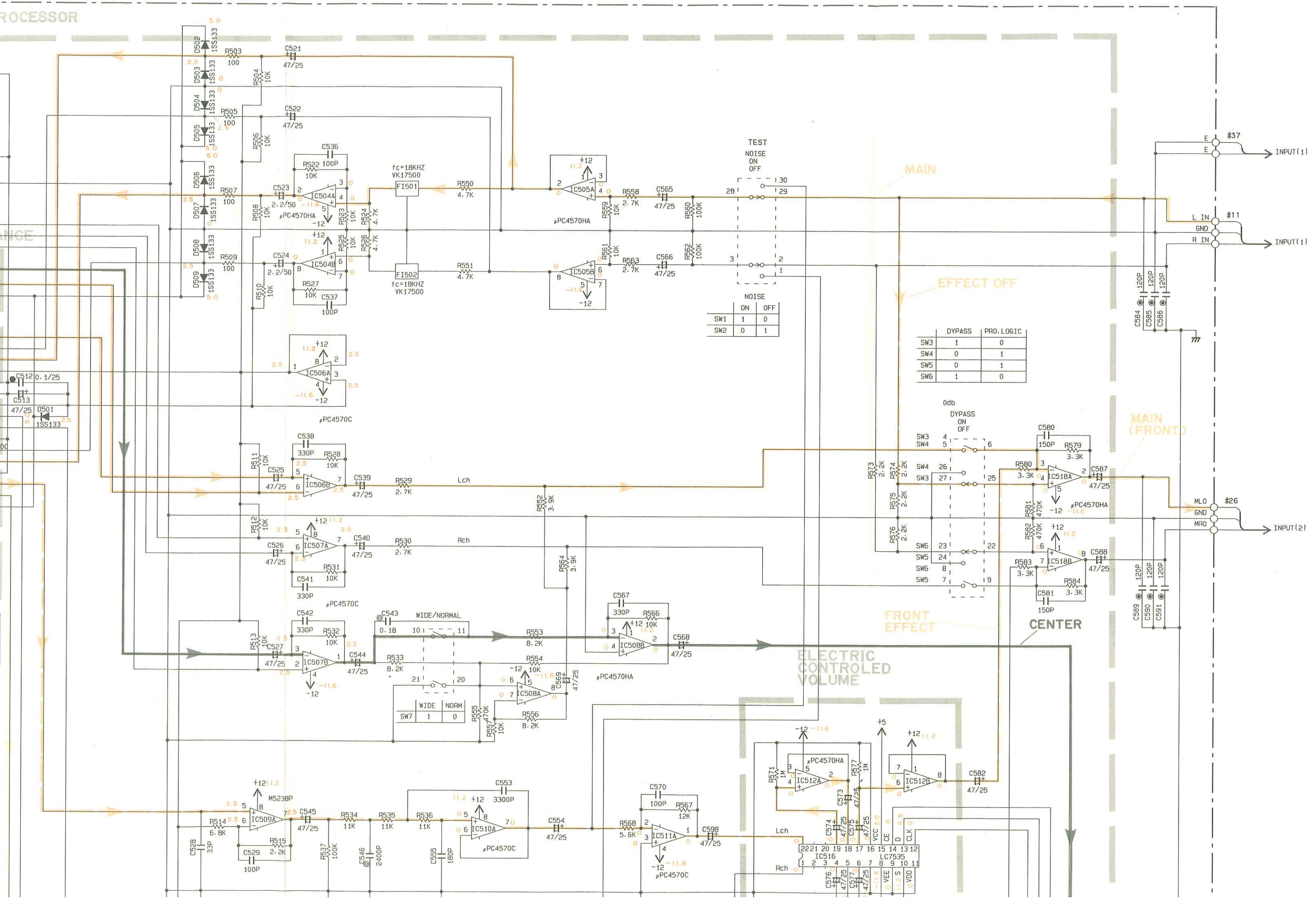
NOISE	
SW1	ON OFF
1	1 0
SW2	0 1

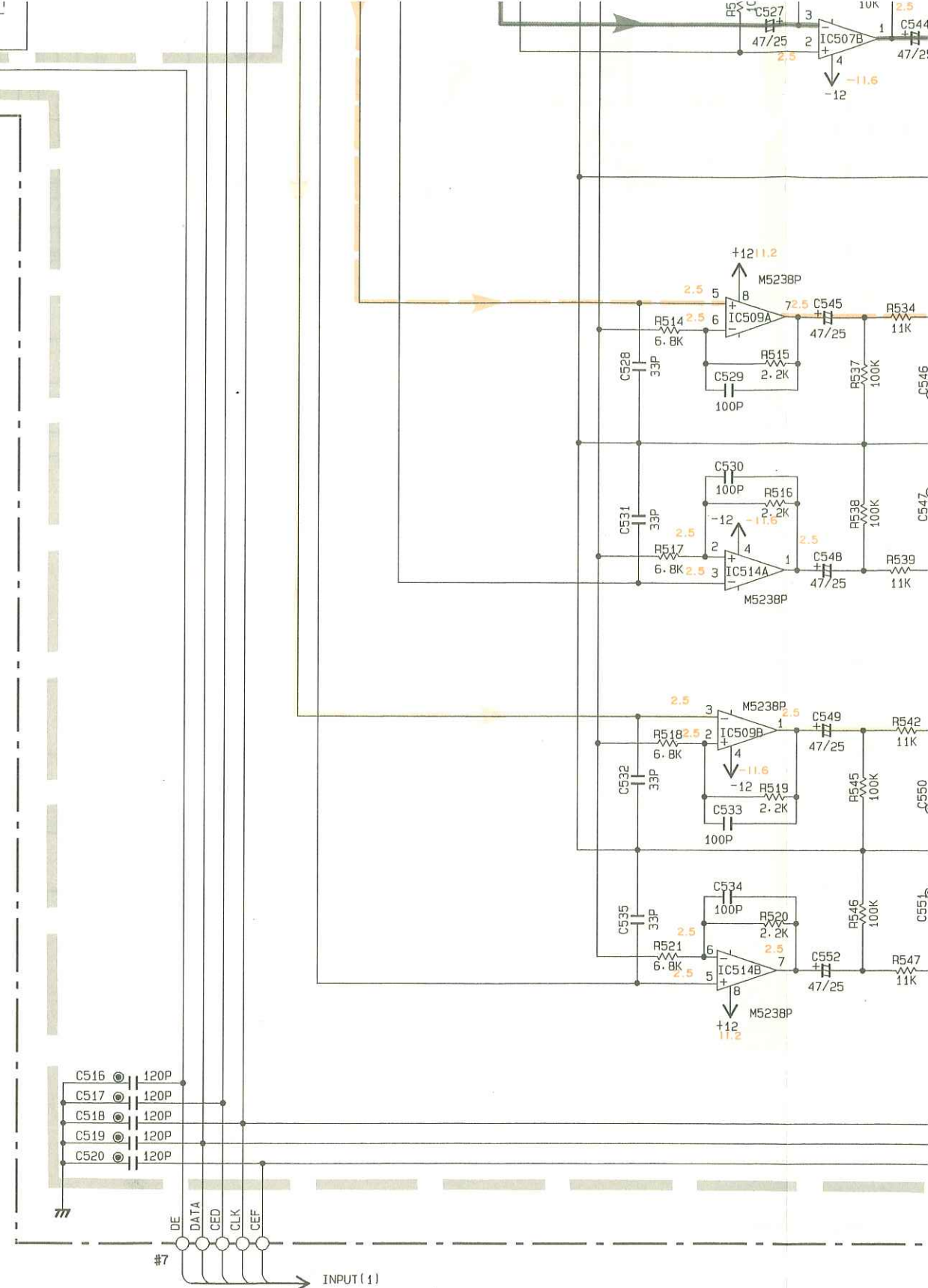
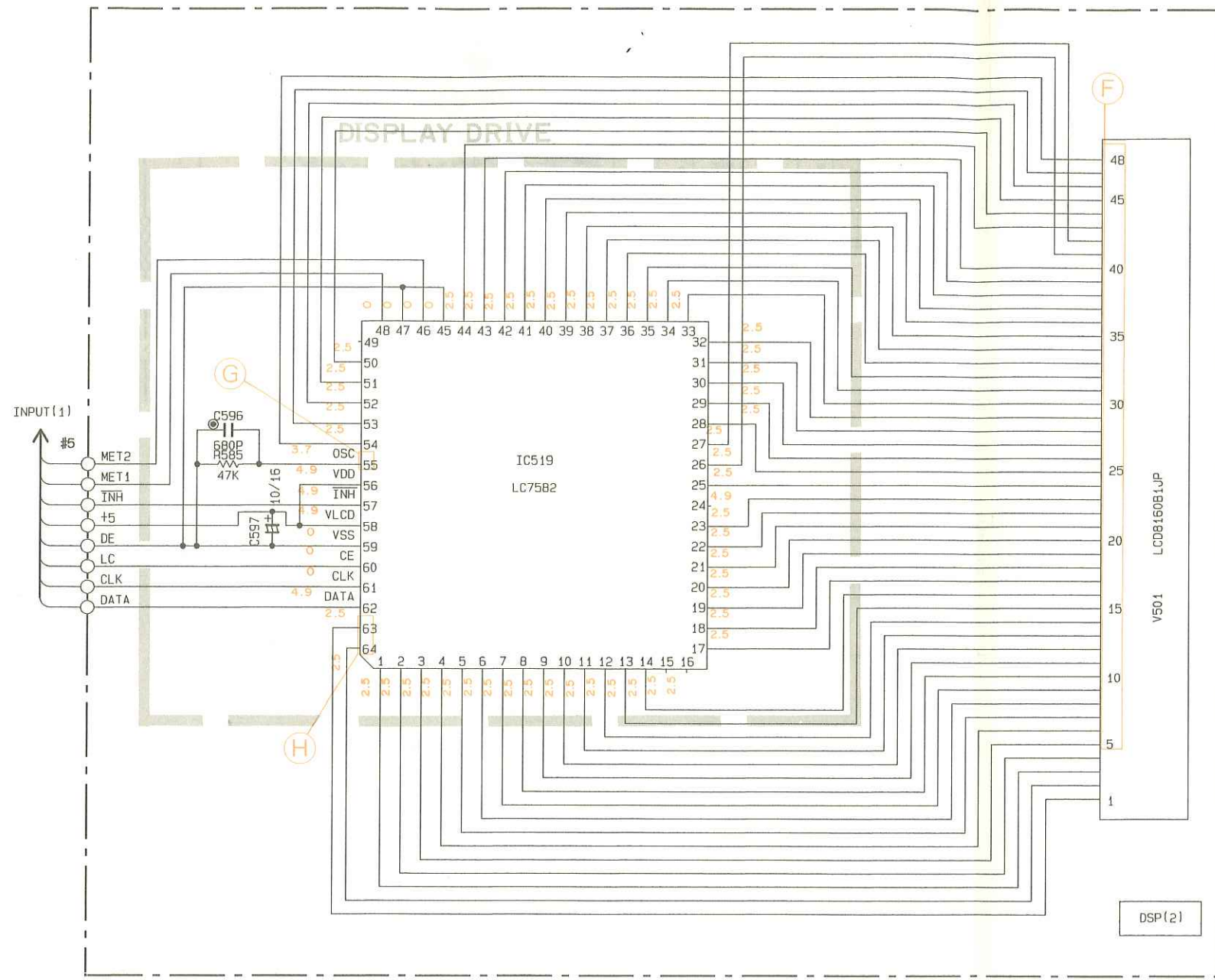
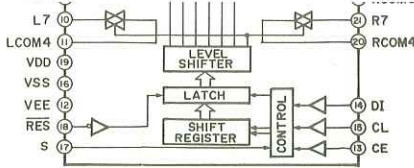
DYPASS		PRO. LOGIC	
SW3	1 0	SW4	0 1
0	1	0	1
1	0	1	0

0db
DYPASS
ON
OFF

DYPASS		PRO. LOGIC	
SW3	4 5	SW4	26 27
1	4 5	0	26 27
0	5 4	1	27 26

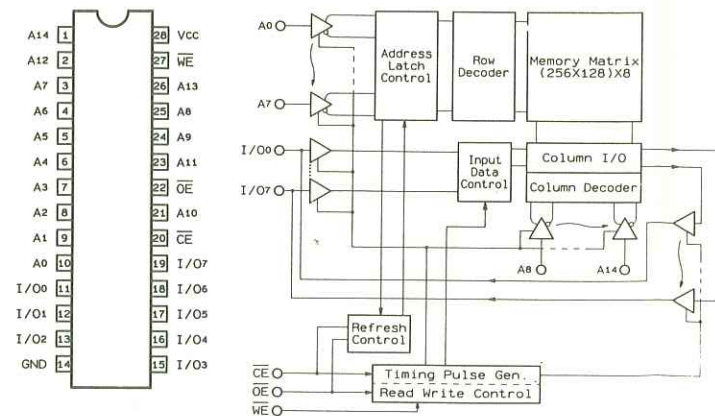
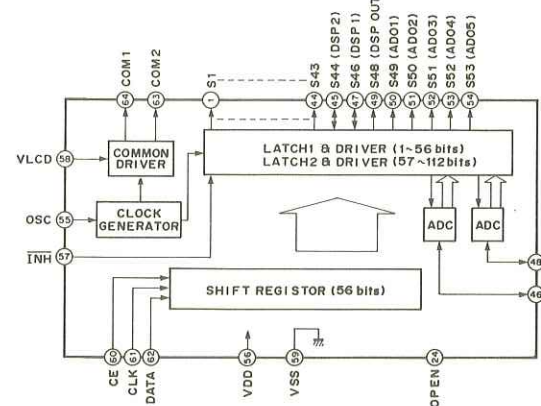
WIDE/NORM	
SW7	1 0
1	1 0
0	0 1



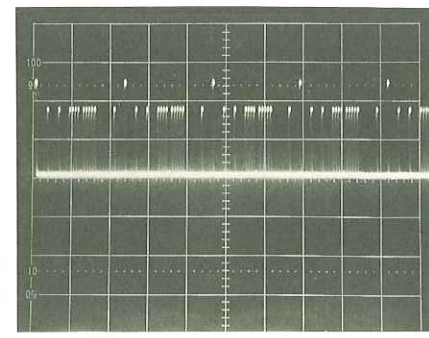


IC519 : LC7582
LCD Driver

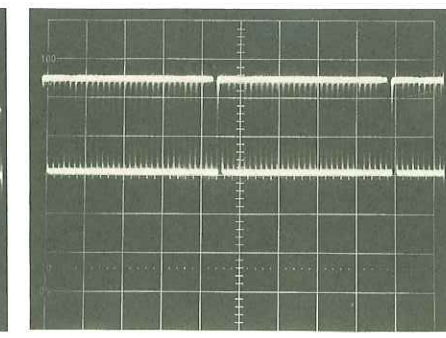
IC501 : HM65256BLFP-10T or TC51832FL-10
32768-word x 8-bit High Speed
Pseudo Static RAM



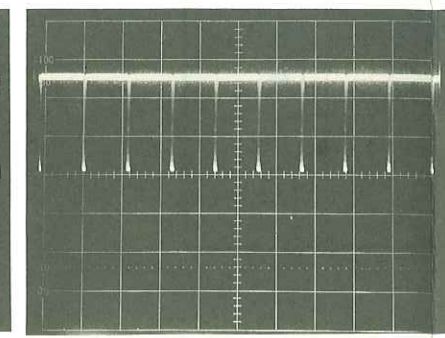
Point (B) : D3
(Pin 15 of IC501)
V : 2V/div, H : 10μsec/div
DC range 1 : 1 probe



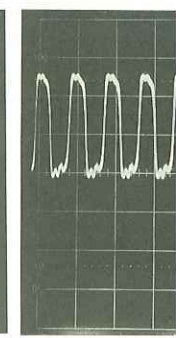
Point (C) : A7~9, A11~14
(Pin 1 to 3 of IC501, Pin23 to 26 of IC501)
V : 2V/div, H : 5μsec/div
DC range 1 : 1 probe



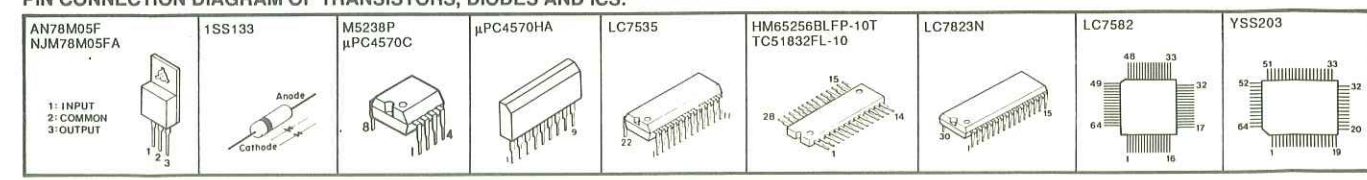
Point (D) : WE
(Pin 27 of IC501)
V : 2V/div, H : 10μsec/div
DC range 1 : 1 probe



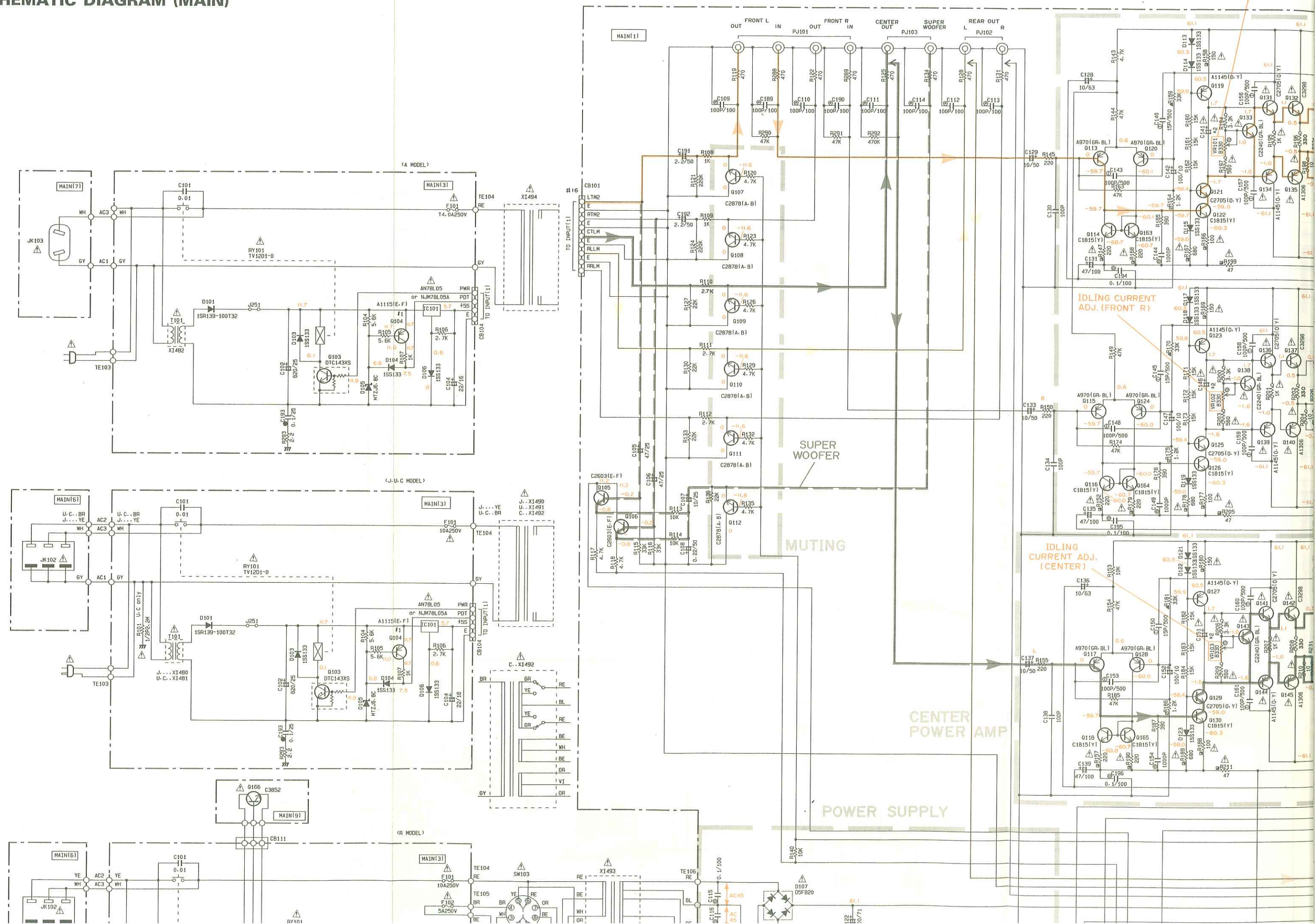
Point (E) : X0
(Pin 55 of IC501)
V : 0.2V/div, H : 10μsec/div
DC range 10 : 1 probe

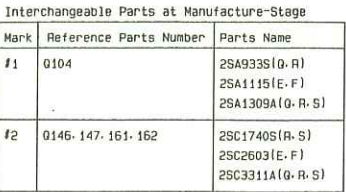


PIN CONNECTION DIAGRAM OF TRANSISTORS, DIODES AND ICs.

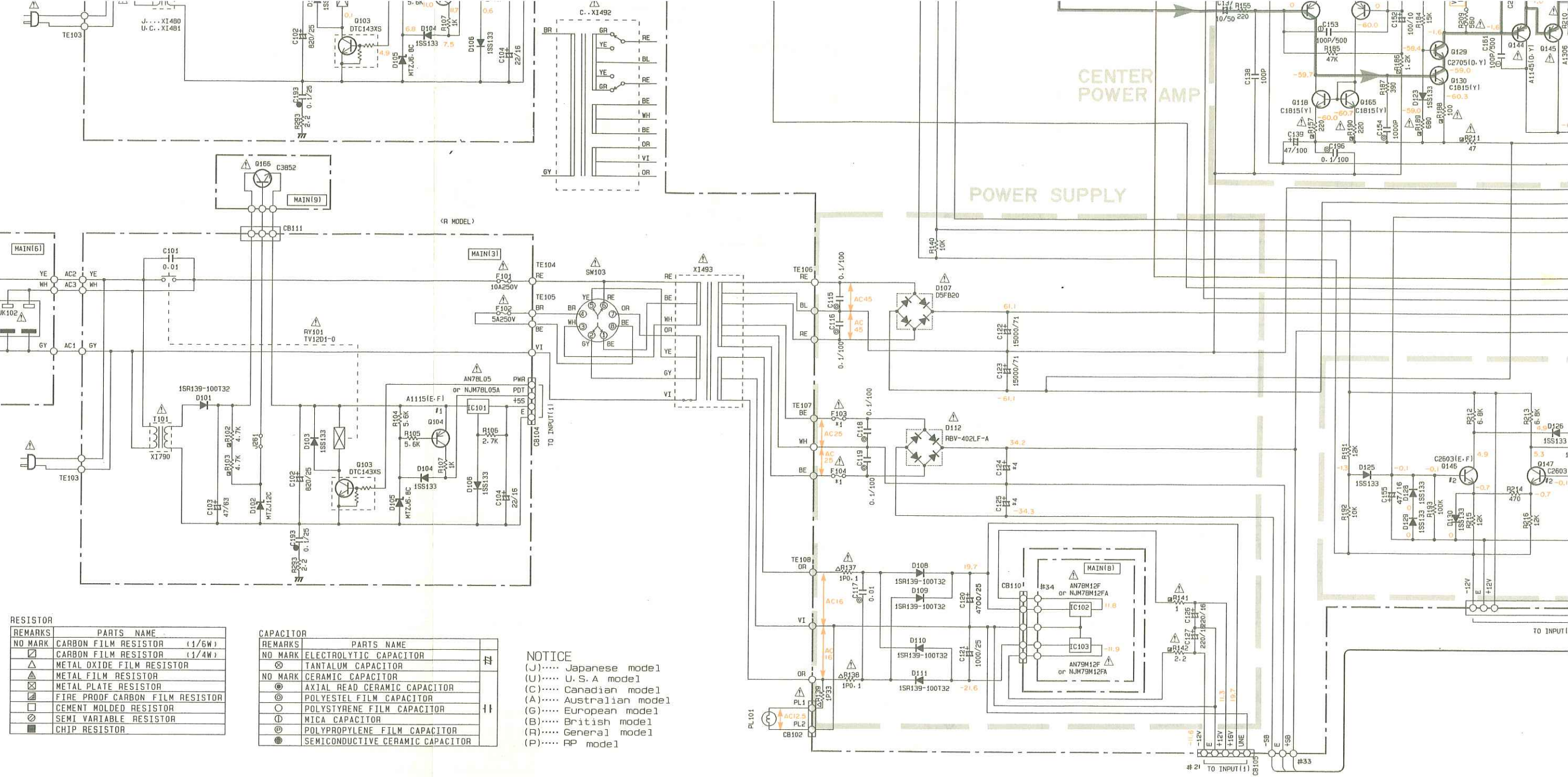


■ SCHEMATIC DIAGRAM (MAIN)





	J	U. C. R	A
1 F103- 104	6. 0A125V		74. 0A250V
2 C141- 146- 151	22/50	47/50	
3 C163- 164- 165	Ⓟ 0. 047/100	Ⓢ 0. 047	
4 C124- 125	5600/50	3300/45	



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
⊞	SEMI VARIABLE RESISTOR
■	CHIP RESISTOR

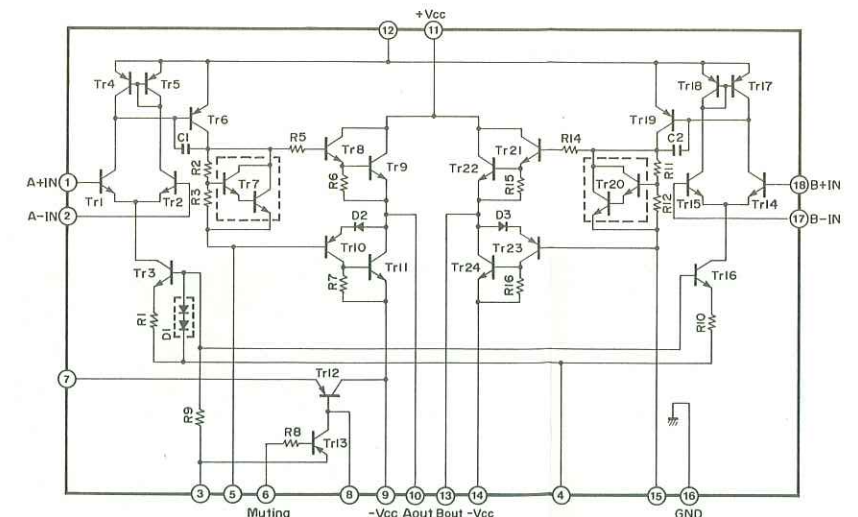
REMARKS	PARTS NAME
NO MARK	ELECTROLYTIC CAPACITOR
⊗	TANTALUM CAPACITOR
NO MARK	CERAMIC CAPACITOR
⊙	AXIAL READ CERAMIC CAPACITOR
⊙	POLYESTER FILM CAPACITOR
○	POLYSTYRENE FILM CAPACITOR
①	MICA CAPACITOR
Ⓟ	POLYPROPYLENE FILM CAPACITOR
⊙	SEMICONDUCTIVE CERAMIC CAPACITOR

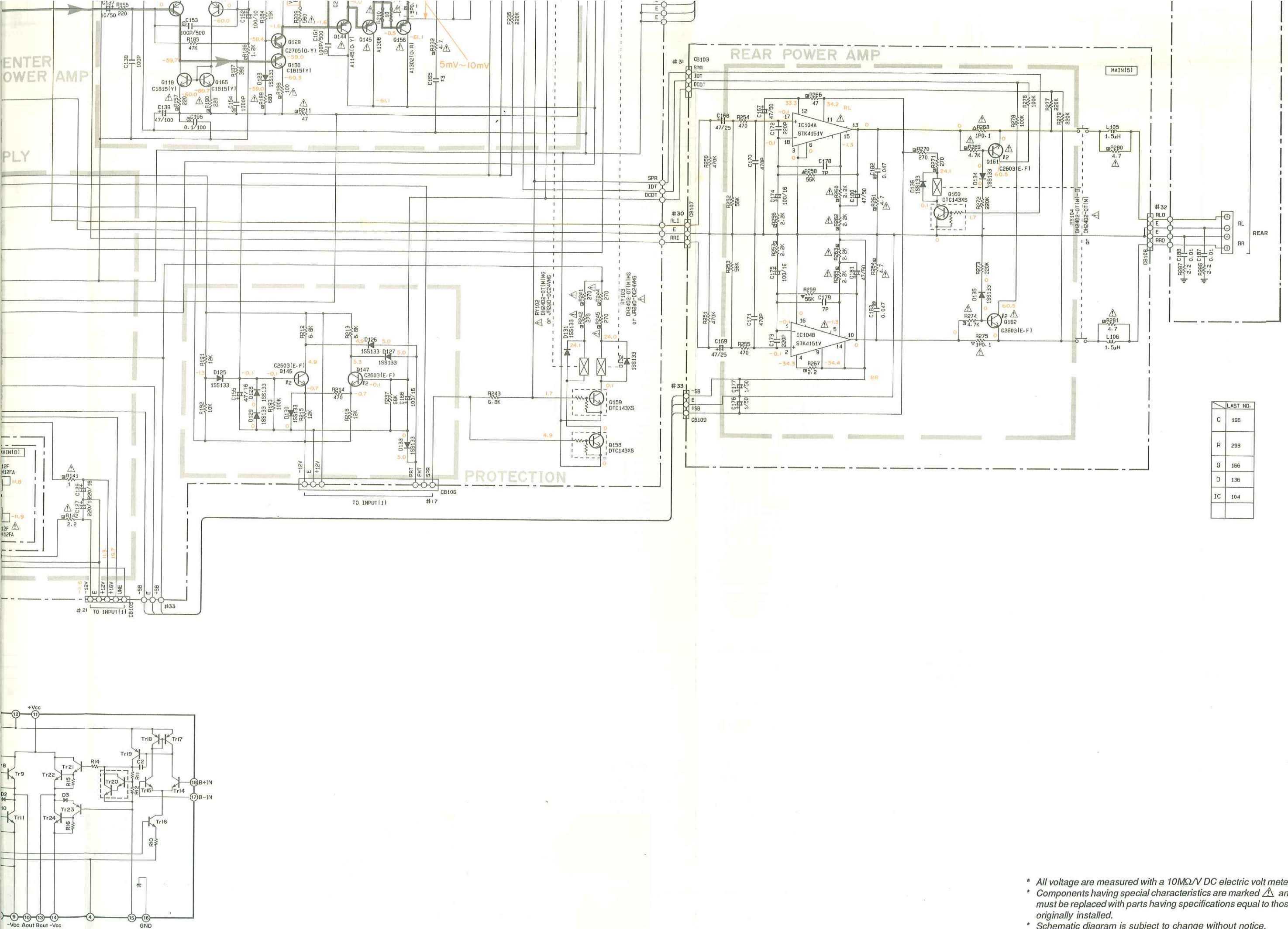
NOTICE
 (J)..... Japanese model
 (U)..... U.S.A model
 (C)..... Canadian model
 (A)..... Australian model
 (G)..... European model
 (B)..... British model
 (R)..... General model
 (P)..... RP model

PIN CONNECTION DIAGRAM OF TRANSISTORS, DIODES AND ICs.

2SA970(GR, BL) 2SA933S(O, R) 2SA1115(E, F) 2SA1309A(O, R, S) 2SC1815(Y) 2SC2240(GR, BL) 2SC2603(E, F) 2SC1740S(S, R) 2SC3311A(O, R, S) 2SC2878(A, B)	2SC3852 2SA1306 2SC3298	2SA1302(O, R) 2SC3281(O, R)	AN78M12F NJM78M12FA	AN79M12F NJM79M12FA	AN78L05 NJM78L05A	1SS133 1SR139-100T32 MTZJ6.8C MTZJ12C	D5FB20	RBV-402LF-A	STK4151V

IC104 : STK4151V
Power Amp





* 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 Δ 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 P. 55.

RX-V1050

Ref. NO.	PART NO.	Description	部 品 名	Remarks	Markets	リンク
	VK201500	DSP CIRCUIT BOARD	DSPシート			
	FA153240	HYLAR FILM CAP	2400pF 50V マイラーコン	C546, 547, 550, 551		
	FA155180	HYLAR FILM CAP	0.18uF 50V マイラーコン	C543		
	UT653330	POLYPROPYLENE FILM CAP	3300pF 100V PPコン	C514, 515		
	FG211330	CERAMIC CAP	33pF 50V セラコン	C528, 531, 532, 535		
	FG212100	CERAMIC CAP	100pF 50V セラコン	C529, 530, 533, 534, 536, 537, 570, 571		
	FG212150	CERAMIC CAP	150pF 50V セラコン	C580, 581		
	FG212180	CERAMIC CAP	180pF 50V セラコン	C555, 556, 561, 562		
	FG212330	CERAMIC CAP	330pF 50V セラコン	C538, 541, 542, 567		
	FG713330	CERAMIC CAP	3300pF 50V セラコン	C553, 558, 559, 564		
	VG278100	CERAMIC CAP	120pF 50V 円筒セラコン	C501-503, 516-520, 584-586, 589-595		
	VG278900	CERAMIC CAP	680pF 50V 円筒セラコン	C596		
	Vi842200	ELECTROLYTIC CAP	10uF 16V ケミコン	C597		
	Vi842700	ELECTROLYTIC CAP	220uF 16V ケミコン	C504, 505		
	Vi843400	ELECTROLYTIC CAP	47uF 25V ケミコン	C507, 508, 510, 513, 521, 522, 525-527, 539, 540, 544, 545, 548, 549, 552, 554, 557, 560, 563, 565, 566, 568, 569, 572-579, 582, 587, 588, 598, 599, 583		
	Vi845000	ELECTROLYTIC CAP	2.2uF 50V ケミコン	C523, 524		
	VD930900	SEMI-CONDUCTIVE CERAMIC CAP	0.1uF 25V 半導体セラコン	C506, 509, 511, 512, 600		
	Vi546100	COIL	220uH LAP02TA コテイコイル	L501		
	HL314330	METAL OXIDE RESISTOR	33Ω 1W 酸化金属被膜抵抗	R501		
	XB247301	IC	uPC4570HA I C	IC504, 505, 508, 512, 513, 518		
	XB979A00	IC	H5238P I C	IC509, 514		
	XC520A00	IC	UPC4570C I C	IC506, 507, 510, 511, 515		
	XF740A00	IC	NJH78H05FA I C	IC502		
	XE536001	IC	LC7535 I C	IC516		
	XG758A00	IC	LC7823N I C	IC517		
	XB417A00	IC	LC7582 I C	IC519		
	Xi020A00	IC	HM65256BLFP-10T I C	IC501		
	Xi022A00	IC	YSS203 (HLDSP) I C	IC503		
	VJ805700	LCD	LCD 8160B1JP LCD表示器	V501		
	VB858700	BASE PIN	PH 8P SE ベースピン	CB506		
	VK175000	FILTER, L. PASS	TFB-2D 18KHZ LCフィルター	F1501, 502		
	VK175200	CERAMIC RESONATOR	11.28MHz セラミック振動子	X1501		
	iF004600	DIODE	1SS133 T-77 ダイオード	D501-509		
	VG729700	LAMP	1.7W 14.5V 115mA ランプ			
	VB966900	PIN	IMS-A-6024 スタイルピン			
	Vi435400	GROUND PLATE	アースプレート			
	VG433100	REFLECTOR	LCD リフレクター			
	VG433300	SHEET	LCD シート			
	VF444500	LAMP CAP	AG-4015 ランプキャップ			
	VG650400	RING	リング			
	CB605620	PLASTIC RIVET	NO.1057 ブラリベット			

※New Parts (新規部品)

リンク : Japan only

Ref. NO.	PART NO.	Description	部 品 名	Remarks	Markets	ランク
	VK201100	INPUT CIRCUIT BOARD	インプットシート		U,C	
	VK201300	INPUT CIRCUIT BOARD	インプットシート		A	
	VK201000	INPUT CIRCUIT BOARD	インプットシート		J	
	VK201200	INPUT CIRCUIT BOARD	インプットシート		R	
	FA154110	HYLAR FILM CAP	0.011uF 50V	マイラーコン	C737,741	
	FA154220	HYLAR FILM CAP	0.022uF 50V	マイラーコン	C825,826	
	FA154390	HYLAR FILM CAP	0.039uF 50V	マイラーコン	C736,740	
	FA155100	HYLAR FILM CAP	0.1uF 50V	マイラーコン	C795-798,824,827	
	UT452100	POLYPROPYLENE FILM CAP	100pF 100V	P P コン	C787,790,793	
	UT452220	POLYPROPYLENE FILM CAP	220pF 100V	P P コン	C705,709	
	FT853270	POLYPROPYLENE FILM CAP	2700pF 100V	P P コン	C738,739	
	F1551470	CERAMIC CAP	47pF 50V	セラコン	C813,814,816,818	
	FG244100	CERAMIC CAP	0.01uF 50V	セラコン	C774,775,834	
	VF466900	CERAMIC CAP	470pF 50V	円筒セラコン	C712-727	
	VF467000	CERAMIC CAP	1000pF 50V	円筒セラコン	C836-838	
	VF467300	CERAMIC CAP	0.01uF 16V	円筒セラコン	C743,745,747,779,780,784,832	
	VG280100	CERAMIC CAP	0.022uF 25V	円筒セラコン	C701	
	VJ599100	CERAMIC CAP	0.1uF 50V	円筒セラコン	C828	
	Vi841000	ELECTROLYTIC CAP	100uF 6.3V	ケミコン	C833	
	Vi841100	ELECTROLYTIC CAP	220uF 6.3V	ケミコン	C706,707	
	Vi842200	ELECTROLYTIC CAP	10uF 16V	ケミコン	C753-757,776-778	U,C,R,A
	VH619900	ELECTROLYTIC CAP	10uF 16V	ケミコン	C753-757,776-778	J
	Vi842200	ELECTROLYTIC CAP	10uF 16V	ケミコン	C811	
	Vi842400	ELECTROLYTIC CAP	33uF 16V	ケミコン	C728-730,732,744,746,	
					748,758-761,763-765,767,769,781-783	
	Vi842500	ELECTROLYTIC CAP	47uF 16V	ケミコン	C771,772	
	Vi842600	ELECTROLYTIC CAP	100uF 16V	ケミコン	C702,711	
	Vi843200	ELECTROLYTIC CAP	22uF 25V	ケミコン	C770,773	
	Vi843400	ELECTROLYTIC CAP	47uF 25V	ケミコン	C788,791,792,799-810,820-822	
	VH620800	ELECTROLYTIC CAP	47uF 25V	ケミコン	C812,819	J
	Vi843400	ELECTROLYTIC CAP	47uF 25V	ケミコン	C812,819	U,C,R,A
	Vi844800	ELECTROLYTIC CAP	0.47uF 50V	ケミコン	C823	
	Vi844900	ELECTROLYTIC CAP	1uF 50V	ケミコン	C703,710,749,752,786,789,794,830,831,835	
	Vi845000	ELECTROLYTIC CAP	2.2uF 50V	ケミコン	C735,742	
	Vi845100	ELECTROLYTIC CAP	3.3uF 50V	ケミコン	C815,817	
	Vi309200	ELECTROLYTIC CAP	1000uF 10V	ケミコン	C731,733,734,762,766,	
					768	
	FH116100	ELECTROLYTIC CAP	1uF 50V	B P ケミコン	C785	
	VB170100	ELECTROLYTIC CAP	4.7mF 5.5V	バックアップケミコン	C829	
	HV453220	FLAME PROOF CARBON RESISTOR	2.2Ω 1/4W	不燃化カーボン抵抗	R863	
	HV453470	FLAME PROOF CARBON RESISTOR	4.7Ω 1/4W	不燃化カーボン抵抗	R823	
	HV454100	FLAME PROOF CARBON RESISTOR	10Ω 1/4W	不燃化カーボン抵抗	R762,763,862	
	HV454330	FLAME PROOF CARBON RESISTOR	33Ω 1/4W	不燃化カーボン抵抗	R747,748,752,789-791	
	HV454680	FLAME PROOF CARBON RESISTOR	68Ω 1/4W	不燃化カーボン抵抗	R874	
	HV455100	FLAME PROOF CARBON RESISTOR	100Ω 1/4W	不燃化カーボン抵抗	R732,744,761,780	
	VD270100	RESISTOR ARRAY	RHXA3 100K X 8	ネットワーク抵抗	R855	

※New Parts (新規部品)

ランク : Japan only

Ref. NO.	PART NO.	Description	部 品 名	Remarks	Markets	注
	XB247301	IC	uPC4570HA	IC	IC712,717,726,727,729,731,732,734	
	XC520A00	IC	UPC4570C	IC	IC701	
	iG001720	IC	TC4069UBP	IC	IC702	
	iG152500	IC	BA6229	IC	IC733	
	iG065510	IC	NJM78L05A	IC	IC713	
	XC138A00	IC	NJM78L09A	IC	IC714	
	XC139A00	IC	NJM79L09A	IC	IC715	
	XE536001	IC	LC7535	IC	IC728,730	
	XG732A00	IC	LC7821N	IC	IC707	
	XII436A00	IC	LA7956	IC	IC703-705,719-724	
	iG037400	IC	uPD4068BC	IC	IC706,708,725,735	
	iG001770	IC	TC4051BP	IC	IC710,711,716	
	XA070A00	IC	uPD4052BC	IC	IC709	
	Xi469B00	IC	H50747-E85SP	IC	IC718	
	VJ769400	PUSH SWITCH	SPUN24 2	プッシュSW	SW701	
	VK176000	ROTARY SWITCH	SRRS	ロータリーSW	SW702	
	VK177300	PIN JACK	YKC21-3	ピンジャック	PJ702,704	J
	VJ696200	PIN JACK	YKC21-3034	ピンジャック	PJ702,704	U,C,R,A
	VK177400	PIN JACK	4P	ピンジャック	PJ701	J
	VJ696300	PIN JACK	4P	ピンジャック	PJ701	U,C,R,A
	VK179000	PIN JACK	YKC21-3144	ピンジャック	PJ703	J
	VJ696400	PIN JACK	YKC21-3036	ピンジャック	PJ703	U,C,R,A
	VK219100	PIN JACK	YKC21-3147	ピンジャック	PJ706	J
	VJ695800	PIN JACK	YKC21-3058	ピンジャック	PJ706	U,C,R,A
	VJ695900	PIN JACK	3P	ピンジャック	PJ705	U,C,R,A
	VK177200	PIN JACK	3P	ピンジャック	PJ705	J
	VJ726800	MINIATURE JACK, MONOURAL	SW74 JC-6	モノラル ミニジャック	JK703	
	VII842700	S-CONNECTOR	3P	S コネクター	JK701	
	VJ784800	S-VIDEO CONNECTOR	G74 3P M1820-A	3連 S コネクター	JK702	
	VD004500	BASE PIN	PH 2P TE	ベースピン	CB711	
	VD004600	BASE PIN	PH 3P TE	ベースピン	CB701,707	
	VD004700	BASE PIN	PH 4P TE	ベースピン	CB703,715	
	VD004800	BASE PIN	PH 5P TE	ベースピン	CB702,705,716	
	VD005000	BASE PIN	PH 7P TE	ベースピン	CB708-710	
	VD005100	BASE PIN	PH 8P TE	ベースピン	CB706	
	VD005300	BASE PIN	PH 10P TE	ベースピン	CB704	
	VE222400	CERAMIC RESONATOR	8MHz	セラミック発振子	XL701	
	LB918020	BASE PIN	XH 2P	ベースピン		
	VE854600	POTENTIOMETER	MH30K RK163122	二連ロータリーVR	VR701	
	VK176100	POTENTIOMETER	16K L=30	二連ロータリーVR	VR703	
	VK176300	POTENTIOMETER	20K L=30	二連ロータリーVR	VR704	
	VJ770700	POTENTIOMETER WT.MOTOR & LED	100KY X 5	LED付きモーターVR	VR702	
	VC218700	TRANSISTOR	2SA1317 R,S,T	トランジスタ	Q705	
	iB054420	TRANSISTOR	2SB544 D,E,F,G	トランジスタ	Q701	
	VC218900	TRANSISTOR	2SC3330 R,S,T	トランジスタ	Q704	
	V6722000	DIGITAL TRANSISTOR	DTC144ES	デジタルトランジスタ	Q703	
	VB678700	DIGITAL TRANSISTOR	DTC114ES	デジタルトランジスタ	Q702	
	iF004600	DIODE	1SS133 T-77	ダイオード	D701-704,706-709,711,712	

※New Parts (新規部品)

ランク : Japan only

Ref. NO.	PART NO.	Description	部 品 名	Remarks	Markets	ランク
	VG436900	ZENER DIODE	MTZJ4.3C 4.3V	ツェナーダイオード	D710	
	VB966900	PIR	IHSA-6024	スタイルピン		
	VK433900	SHIELD CASE	RA-V1050	シールドケース		
	VK200400	MAIN CIRCUIT BOARD		メインシート		A
	VK200300	MAIN CIRCUIT BOARD		メインシート		R
	VK200000	MAIN CIRCUIT BOARD		メインシート		J
	VK200100	MAIN CIRCUIT BOARD		メインシート		U,C
	FA153100	MYLAR FILM CAP	1000pF 50V	マイラーコン	C144, 149, 154	
	FA154100	MYLAR FILM CAP	0.01uF 50V	マイラーコン	C117	
	FA154470	MYLAR FILM CAP	0.047uF 50V	マイラーコン	C182, 183	
	UT464470	POLYPROPYLENE FILM CAP	0.047uF 100V	P P コン	C163-165	J
	FA154470	MYLAR FILM CAP	0.047uF 50V	マイラーコン	C163-165	U,C,R,A
	UT452100	POLYPROPYLENE FILM CAP	100pF 100V	P P コン	C109-114, 189, 190	
	VI862200	POLYETHYLENE FILM CAP	0.1uF 100V	ポリエチレンコン	C115, 116, 118, 119, 194-196	
	FG210700	CERAMIC CAP	7pF 50V	セラコン	C178, 179	
	FG212100	CERAMIC CAP	100pF 50V	セラコン	C130, 134, 138	
	FG212220	CERAMIC CAP	220pF 50V	セラコン	C172, 173	
	FG212470	CERAMIC CAP	470pF 50V	セラコン	C170, 171	
	FG244100	CERAMIC CAP	0.01uF 50V	セラコン	C184-188	
	FI514100	CERAMIC CAP	0.01uF VA-1	スパークキラーコン	C101	
	VI841800	ELECTROLYTIC CAP	100uF 10V	ケミコン	C142, 147, 152	U,C,R,A
	VI819600	ELECTROLYTIC CAP	100uF 10V	ケミコン	C142, 147, 152	J
	VI842300	ELECTROLYTIC CAP	22uF 16V	ケミコン	C104	
	VI842500	ELECTROLYTIC CAP	47uF 16V	ケミコン	C155	
	VI842600	ELECTROLYTIC CAP	100uF 16V	ケミコン	C166, 174, 175	
	VI842700	ELECTROLYTIC CAP	220uF 16V	ケミコン	C126, 127	
	VI843100	ELECTROLYTIC CAP	10uF 25V	ケミコン	C107	
	VI843400	ELECTROLYTIC CAP	47uF 25V	ケミコン	C105, 106, 168, 169	
	VI844600	ELECTROLYTIC CAP	0.22uF 50V	ケミコン	C108	
	VI844900	ELECTROLYTIC CAP	1uF 50V	ケミコン	C162, 176, 177	
	VI845000	ELECTROLYTIC CAP	2.2uF 50V	ケミコン	C191, 192	
	VI845300	ELECTROLYTIC CAP	10uF 50V	ケミコン	C129, 133, 137	U,C,R,A
	VI8622100	ELECTROLYTIC CAP	10uF 50V	ケミコン	C129, 133, 137	J
	VI845600	ELECTROLYTIC CAP	47uF 50V	ケミコン	C167, 180, 181	
	VI8622200	ELECTROLYTIC CAP	22uF 50V	ケミコン	C141, 146, 151	J
	VI845600	ELECTROLYTIC CAP	47uF 50V	ケミコン	C141, 146, 151	U,C,R,A
	VI845900	ELECTROLYTIC CAP	10uF 63V	ケミコン	C128, 136	
	VI846200	ELECTROLYTIC CAP	47uF 63V	ケミコン	C103	R
	VK206300	ELECTROLYTIC CAP	820uF 25V	ケミコン	C102	
	VK181000	ELECTROLYTIC CAP	1000uF 25V	ケミコン	C121	
	VK181300	ELECTROLYTIC CAP	4700uF 25V	ケミコン	C120	
	VI874800	ELECTROLYTIC CAP	47uF 100V	ケミコン	C131, 135, 139	J
	VK182800	ELECTROLYTIC CAP	47uF 100V	ケミコン	C131, 135, 139	U,C,R,A
	VG786700	ELECTROLYTIC CAP	5600uF 50V	ケミコン	C124, 125	J
	VK185900	ELECTROLYTIC CAP	3300uF 45V	ブロックケミコン	C124, 125	U,C,R,A
	VK527700	ELECTROLYTIC CAP	15000uF 71V	ケミコン	C122, 123	U,C,R,A

※New Parts (新規部品)

ランク : Japan only

Ref. NO.	PART NO.	Description	部 品 名	Remarks	Markets	ランク
*	VK186100	ELECTROLYTIC CAP	15000uF 71V	ブロックケミコン	C122, 123	J
	FU451150	MICA CAP	15pF 500V	マイカコン	C140, 145, 150	
	FU352100	MICA CAP	100pF 500V	マイカコン	C143, 148, 153, 156-161	
	VD930900	SEMI-CONDUCTIVE CERAMIC CAP	0.1uF 25V	半導体セラコン	C193	
	Xi481A00	POWER TRANSFORMER		電源トランス	T101	U, C
	Xi480A00	POWER TRANSFORMER		電源トランス	T101	J
	Xi482A00	POWER TRANSFORMER		電源トランス	T101	A, B
	Xi790A00	POWER TRANSFORMER		電源トランス	T101	R
	GD900470	COIL	1.5uH RZ-001	空芯コイル	L105, 106	
	VC664100	COIL	RZ-001 14 X 13	空芯コイル	L102-104	
	VK577900	CARBON RESISTOR	1.2KΩ 1/4W	カーボン抵抗	R164, 175, 186	
	VK578000	CARBON RESISTOR	2.2KΩ 1/4W	カーボン抵抗	R256, 257	
	HG309220	CARBON RESISTOR	2.2HΩ 1/2W	カーボン抵抗	R101	
	HV453100	FLAME PROOF CARBON RESISTOR	1Ω 1/4W	不燃化カーボン抵抗	R141	
	HV453220	FLAME PROOF CARBON RESISTOR	2.2Ω 1/4W	不燃化カーボン抵抗	R142, 267, 283-287	
	HV453470	FLAME PROOF CARBON RESISTOR	4.7Ω 1/4W	不燃化カーボン抵抗	R222, 227, 232, 246, 247, 261, 264, 280-282	
	HV454470	FLAME PROOF CARBON RESISTOR	47Ω 1/4W	不燃化カーボン抵抗	R199, 205, 211, 266	
	HV455100	FLAME PROOF CARBON RESISTOR	100Ω 1/4W	不燃化カーボン抵抗	R166, 177, 188	
	HV455150	FLAME PROOF CARBON RESISTOR	150Ω 1/4W	不燃化カーボン抵抗	R158, 169, 180	
	HV455220	FLAME PROOF CARBON RESISTOR	220Ω 1/4W	不燃化カーボン抵抗	R147, 152, 157, 168, 170, 190	
	HV455270	FLAME PROOF CARBON RESISTOR	270Ω 1/4W	不燃化カーボン抵抗	R241, 244, 270, 242, 245, 271	
	HV455680	FLAME PROOF CARBON RESISTOR	680Ω 1/4W	不燃化カーボン抵抗	R167, 178, 189	
	HV455820	FLAME PROOF CARBON RESISTOR	820Ω 1/4W	不燃化カーボン抵抗	R219, 224, 229	
	HV456220	FLAME PROOF CARBON RESISTOR	2.2KΩ 1/4W	不燃化カーボン抵抗	R260, 262, 263, 265	
	HV456470	FLAME PROOF CARBON RESISTOR	4.7KΩ 1/4W	不燃化カーボン抵抗	R218, 223, 228, 269, 274	
	HV456470	FLAME PROOF CARBON RESISTOR	4.7KΩ 1/4W	不燃化カーボン抵抗	R102, 103	R
	VG875900	METAL OXIDE RESISTOR	0.1Ω 1W	酸化金属被膜抵抗	R137, 138	
*	VK189600	METAL OXIDE RESISTOR	0.1Ω 1W	酸化金属被膜抵抗	R268, 275	
	HL314330	METAL OXIDE RESISTOR	33Ω 2W	酸化金属被膜抵抗	R139	
	HL325390	METAL OXIDE RESISTOR	390Ω 2W	酸化金属被膜抵抗	R248, 249	
	Vi513100	METAL FILM RESISTOR	33KΩ 1/4W	金属被膜抵抗	R150, 170, 181	
	Vi513700	METAL FILM RESISTOR	56KΩ 1/4W	金属被膜抵抗	R258, 259	
	VJ787600	METAL PLATE RESISTOR	MPC725 0.22+0.22	金属板抵抗	R220, 225, 230	
	VK186600	FUSABLE RESISTOR	10Ω 1/4W	ヒューズ抵抗	R198, 204, 210, 221, 226, 231	
	VK188700	FUSABLE RESISTOR	560Ω 1/4W	ヒューズ抵抗	R197, 203, 209	
	VK189500	FUSABLE RESISTOR	3.3KΩ 1/4W	ヒューズ抵抗	R194, 200, 206	
	VK188400	FUSABLE RESISTOR	330Ω 1/4W	ヒューズ抵抗	R196, 202, 208	
	VK189000	FUSABLE RESISTOR	1KΩ 1/4W	ヒューズ抵抗	R195, 201, 207	
	IG065510	IC	NJN78L05A	I C	IC101	
	XG199A00	IC	STK-4151V 30W	I C	IC104	
	XD341A00	IC	NJN78M12FA	I C	IC102	
	XD343A00	IC	NJN79M12FA	I C	IC103	
	VJ769200	SLIDE SWITCH	ESD-2764	スライドSW	SW102	
	VJ769300	PUSH SWITCH	SPUF 2	プッシュSW	SW101	
	VK438300	RELAY	DH24D2-OT (H)-II	リレー	RY104	
	KCO02020	RELAY	DH24D2-OTM	リレー	RY102, 103	

※New Parts (新規部品)

ランク : Japan only

Ref. NO.	PART NO.	Description	部 品 名	Remarks	Markets	ランク
	VG971200	RELAY	AC TY12D1-0 TV-8	リレー	RY101	
	KB000400	FUSE	T5A 250V	ヒューズ	F102	R
	KB001490	FUSE	10A 250V	ヒューズ	F101	J
	KB001390	FUSE	10A 250V	ヒューズ	F101	U,C
	KB000790	FUSE	T4A 250V	ヒューズ	F101	A
	KB003100	FUSE	T4A 250V	ヒューズ	F103, 104	A
	KB003210	FUSE	T6A 125V	ヒューズ	F103, 104	J, U, C, R
	LA002140	LAPPING TERMINAL	2P i-TYPE P=10	ラッピング端子	TE104	
	LA002140	LAPPING TERMINAL	2P i-TYPE P=10	ラッピング端子	TE105	R
	LA002320	LAPPING TERMINAL	3P i-TYPE P=7.5	ラッピング端子	TE106-108	
	LA003870	LAPPING TERMINAL	2P L-102NE	ラッピング端子	TE103	
	VK177000	PIN JACK	2P	ピンジャック	PJ102	J
	VJ133600	PIN JACK	2P	ピンジャック	PJ102	U, C, R, A
	VI205900	PIN JACK	2P	ピンジャック	PJ103	U, C, R, A
	VK183600	PIN JACK	SWツキ キンメッキ加	ピンジャック	PJ103	J
	VK178800	PIN JACK	4P	ピンジャック	PJ101	J
	VJ715400	PIN JACK	4P	ピンジャック	PJ101	U, C, R, A
	VJ114000	PHONES JACK	キンメッキ M1059	ホーンジャック	JK101	
	LB608170	AC OUTLET	3P M7032D	AC アウトレット	JK102	J, U, C, R
	VD004500	BASE PIN	PH 2P TE	ベースピン	CB102	
	VD004600	BASE PIN	PH 3P TE	ベースピン	CB103	
	VD004700	BASE PIN	PH 4P TE	ベースピン	CB104	
	VD004800	BASE PIN	PH 5P TE	ベースピン	CB105	
	VD004900	BASE PIN	PH 6P TE	ベースピン	CB106	
	VD005200	BASE PIN	PH 9P TE	ベースピン	CB101	
	LB918030	BASE PIN	XH 3P	ベースツキポスト	CB107, 109	
	LB918030	BASE PIN	XH 3P	ベースツキポスト	CB111	R
	LB918040	BASE PIN	XH 4P	ベースツキポスト	CB108	
	LB918050	BASE PIN	XH i-TYPE 5P TE	ベースツキポスト	CB110	
	VJ692700	PRE-SET POTENTIOMETER	B330	半固定VR	VR101-103	
	IA097000	TRANSISTOR	2SA970 GR, BL	トランジスタ	Q113, 115, 117, 120, 124, 128, 157	
	IA093320	TRANSISTOR	2SA933S Q, R	トランジスタ	Q104	
	IC181511	TRANSISTOR	2SC1815 Y	トランジスタ	Q114, 116, 118, 122, 126, 130, 163-165	
	IC224000	TRANSISTOR	2SC2240 GR, BL	トランジスタ	Q133, 138, 143	
	IC224030	TRANSISTOR	2SC2240 GR, BL	トランジスタ	Q149, 152, 155	
	IC260320	TRANSISTOR	2SC2603 E, F	トランジスタ	Q105, 106	
	IC174020	TRANSISTOR	2SC1740S R, S	トランジスタ	Q146, 147, 161, 162	
	IC287820	TRANSISTOR	2SC2878 A, B	トランジスタ	Q107-112	
	VE198700	TRANSISTOR	2SA1145 O, Y	トランジスタ	Q119, 123, 127, 134, 139, 144	
	VE198800	TRANSISTOR	2SC2705 O, Y	トランジスタ	Q121, 125, 129, 131, 136, 141	
	VC938500	TRANSISTOR	2SC3852	トランジスタ	Q166	R
	IA130640	TRANSISTOR	2SA1306 O, Y	トランジスタ	Q135, 140, 145	
	IC329840	TRANSISTOR	2SC3298	トランジスタ	Q132, 137, 142	
	VD488500	DIGITAL TRANSISTOR	DTC143XS	デジタルトランジスタ	Q103, 158-160	
	IF004600	DIODE	1SS133 T-77	ダイオード	D103, 104, 106, 113-115, 117-119, 121-123,	

*New Parts (新規部品)

ランク : Japan only

Ref. NO.	PART NO.	Description	部 品 名	Remarks	Markets	ラック
	iF004600	DIODE	1SS133 T-77	ダイオード	D125-136	
	VH770800	DIODE	1SR139-100 T-32	ダイオード	D101, 108-111	
	iH001130	DIODE BRIDGE	D5FB20	ダイオードスタック	D107	
	VH348200	DIODE BRIDGE	RBV-402 LF-A	ダイオードブリッジ	D112	
	VG438400	ZENER DIODE	MTZJG.8C	ツェナーダイオード	D105	
	VG440300	ZENER DIODE	MTZJ12C	ツェナーダイオード	D102	R
	VK170600	SPEAKER TERMINAL	: ハナナメ	スピーカー端子		J
	VJ792000	SPEAKER TERMINAL		スピーカー端子		U, C, R, A
	LB201880	FUSE HOLDER PIN	PC-FH1	ヒューズホルダピン		
	VK198800	OPERATION CIRCUIT BOARD		オペレーションシート		
	VF466900	CERAMIC CAP	470pF 50V	円筒型セラコン	C352, 353	
	VJ599100	CERAMIC CAP	0.1uF 50V	円筒型セラコン	C351, 354, 355	
	iR013820	IC	UPD74HC138C	I C	IC351	
	VF926500	LIGHT DETECTING MODULE	GP1U501X	リモコン受光ユニット	U351	
	KA906380	PUSH SWITCH	EVQ-QRB04M	プッシュSW	SW351-390	
	VK219200	PIN JACK		ピンジャック	PJ351	
	iF004600	DIODE	1SS133 T-77	ダイオード	D359-363	
	VF402500	LED	SLR-34DC3H3	L E D	D351-358	
	VK201900	TUNER CIRCUIT BOARD		チューナシート		A
	VK201600	TUNER CIRCUIT BOARD		チューナシート		J
	VK201800	TUNER CIRCUIT BOARD		チューナシート		R
	VK201700	TUNER CIRCUIT BOARD		チューナシート		U, C
	FA153100	NYLAR FILM CAP	1000pF 50V	マイラーコン	C45, 48	
	FA153270	NYLAR FILM CAP	2700pF 50V	マイラーコン	C41, 43	
	FA153390	NYLAR FILM CAP	3900pF 50V	マイラーコン	C46, 47	
	FA154470	NYLAR FILM CAP	0.047uF 50V	マイラーコン	C34	
	FA155100	NYLAR FILM CAP	0.1uF 50V	マイラーコン	C18	
	UT452470	POLYPROPYLENE FILM CAP	470pF 100V	P P コン	C36, 37	J, A
	UT452680	POLYPROPYLENE FILM CAP	680pF 100V	P P コン	C36, 37	U, C, R
	VA761200	CERAMIC CAP	33pF 50V	セラコン	C19, 28	
	VF466800	CERAMIC CAP	100pF 50V	円筒セラコン	C21	
	VF466700	CERAMIC CAP	47pF 50V	円筒セラコン	C16	
	VF466900	CERAMIC CAP	470pF 50V	円筒セラコン	C38	
	VF467000	CERAMIC CAP	1000pF 50V	円筒セラコン	C11, 14, 15	
	VF467300	CERAMIC CAP	0.01uF 16V	円筒セラコン	C5, 8-10, 23, 27	
	VG280100	CERAMIC CAP	0.022uF 25V	円筒セラコン	C2	
	VJ599000	CERAMIC CAP	0.047uF 16V	円筒セラコン	C3, 49	
	Vi842200	ELECTROLYTIC CAP	10uF 16V	ケミコン	C4, 12, 13, 20, 26, 31, 39, 42	
	Vi842600	ELECTROLYTIC CAP	100uF 16V	ケミコン	C6, 17	
	Vi842800	ELECTROLYTIC CAP	330uF 16V	ケミコン	C1	
	Vi844800	ELECTROLYTIC CAP	0.47uF 50V	ケミコン	C32	
	Vi844900	ELECTROLYTIC CAP	1uF 50V	ケミコン	C7, 29, 30, 33, 40, 44	
	Vi845000	ELECTROLYTIC CAP	2.2uF 50V	ケミコン	C22	

※New Parts (新規部品)

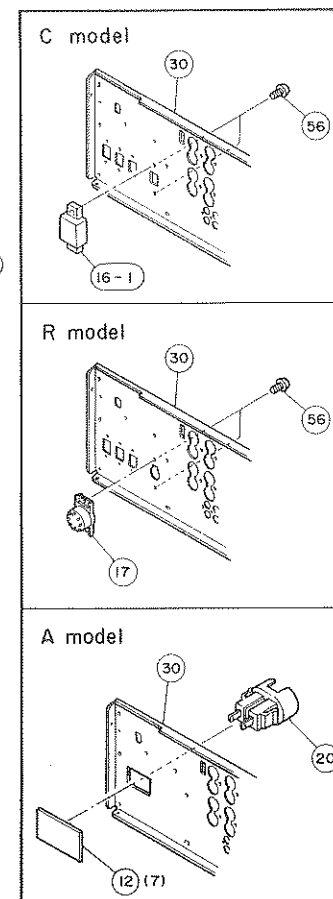
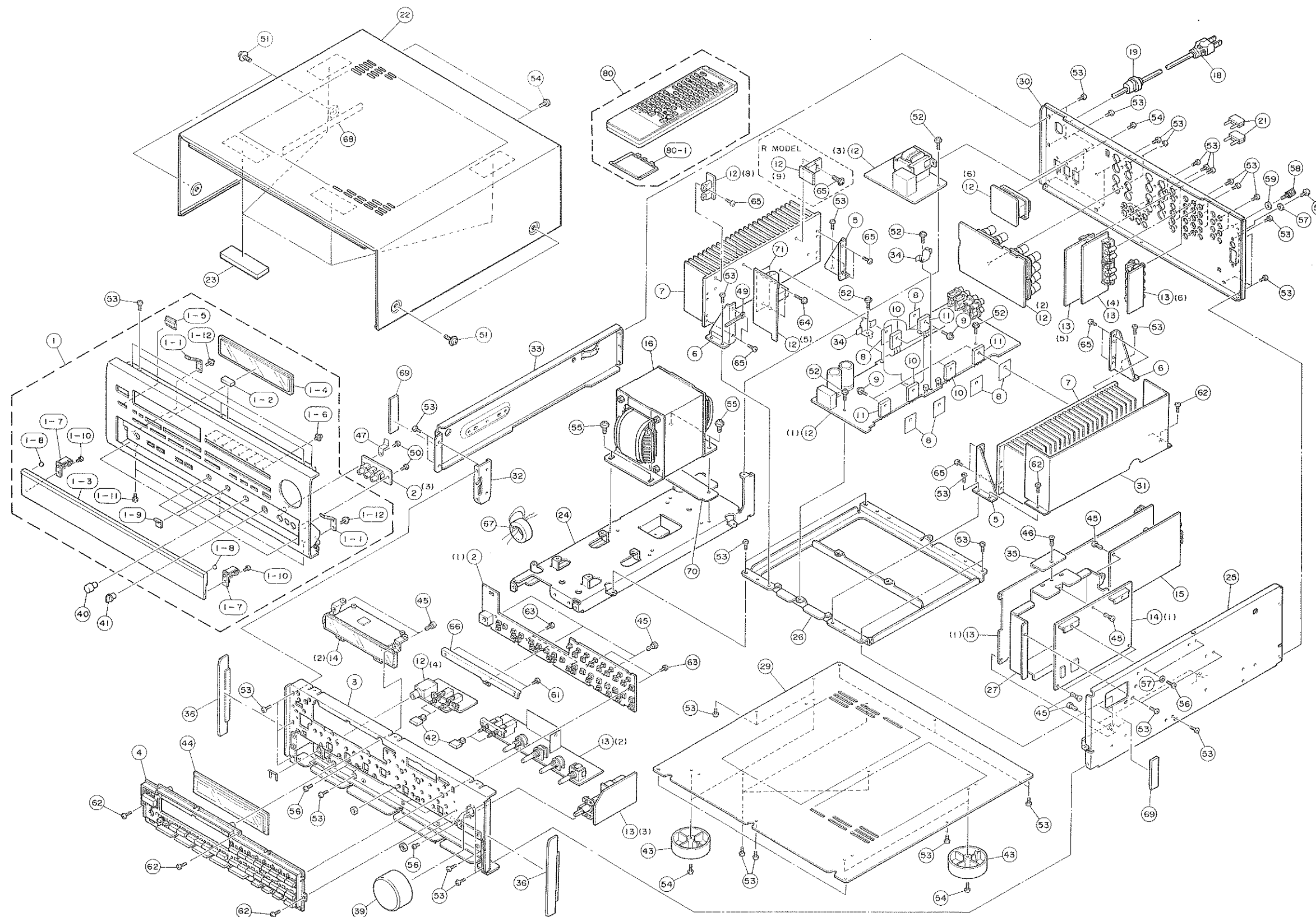
ランク : Japan only

Ref. NO.	PART NO.	Description	部 品 名	Remarks	Harkets	ランク
※	Vi845100	ELECTROLYTIC CAP	3.3uF 50V	ケミコン	C25	
	Vi845200	ELECTROLYTIC CAP	4.7uF 50V	ケミコン	C24	
	FH116220	ELECTROLYTIC CAP	2.2uF 50V	B P ケミコン	C35	
	Vi027300	AM COIL PACK		AM コイルバック	PK2	
	GE100470	AM COIL	450KHz	AM I F T コイル	T2	
	VC218600	COIL	10.7MHZ RZ-002	検波コイル	T1	
	Vi546100	COIL	220uH LAP02TA	コチエイコイル	L1-3	
	GE901850	COIL	39mH	固定インダクター	L4,5	
	iF004600	DIODE	1SS133 T-77	ダイオード	D1,2	
	VC218700	TRANSISTOR	2SA1317 R,S,T	トランジスタ	Q5	
	VB433300	TRANSISTOR	2SC1809 M,N,P	トランジスタ	Q1,4	
	VC218900	TRANSISTOR	2SC3330 R,S,T	トランジスタ	Q2,3,6	
	XB818A00	IC	LM7000H	I C	IC2	
	XB760A00	IC	LA126G	I C	IC1	
	iG158100	IC	LA3401	I C	IC3	
※	VD004000	BASE PIN	PH 3P TE	ベースピン	CB1	
	VD004900	BASE PIN	PH 6P TE	ベースピン	CB2	
	VD005000	BASE PIN	PH 7P TE	ベースピン	CB3	
	VF541200	SLIDE SWITCH	SSSF11	スライドSW	SW1	R
	VK208000	FRONT-END PACK	TFFG3J128A	フロントエンドバック	PK1	J
※	VK208500	FRONT-END TUNER PACK	TFFG1U145A	フロエントバック	PK1	U,C,R,A
	LA005800	ANTENNA TERMINAL	YKD31-0215	アンテナ端子	TE1	J,A
	VA845900	ANTENNA TERMINAL	YKD21-0028A	アンテナ端子	TE1	U,C,R
	VC219000	CERAMIC FILTER	SFZ450JL3	セラミックフィルタ	F13	
	GG000560	CERAMIC FILTER	SFE10.7MS3GHY-A	セラミックフィルタ	F11,2	
	QU003800	CRYSTAL RESONATOR	7.2M HC-49/U	水晶振動子	XL1	
	GG000750	CERAMIC RESONATOR	18.95MHz CSB450F11	セラミック振動子	XL2	
	VJ694000	PRE-SET POTENTIOMETER	B47K	半固定V R	VR1,2	
	BB071360	TERMINAL,SCREW	8.3x13	ネジ端子		

※New Parts (新規部品)

ランク : Japan only

■ EXPLODED VIEW



MECHANICAL PARTS

Note) Ø : Diameter

Ref. NO.	PART NO.	Description	部 品 名	Remarks	Markets	リンク
* 01	VL019800	PANEL UNIT	AVX-1050	パネルユニット	BL	J
* 01	VL019900	PANEL UNIT	RX-V1050	パネルユニット	BL	U,C,R,A
* 01	VL020000	PANEL UNIT	AVX-1050	パネルユニット	T	J
* 01	VL020100	PANEL UNIT	RX-V1050	パネルユニット	T	U,C,R,A
01-01	VJ888200	SPRING		スプリング		
01-02	VE222600	CUSHION		クッション		
* 01-03	VJ831500	SUB PANEL		サブパネル リッド	T	
* 01-03	VJ831600	SUB PANEL		サブパネル リッド	BL	
* 01-04	VJ832800	WINDOW		ウインドウ		
01-05	VH897500	LENS		レンズ		
01-06	VH897700	LENS	2.2LX2.2	レンズ		
01-07	VJ888000	STOPPER		ストッパ	T	
01-07	VJ888100	STOPPER		ストッパ	BL	
01-08	CB621030	DAMPER		ダンバ	BL	
01-08	VE798100	DAMPER		ダンバ	T	
01-09	VE798200	CUSHION		クッション		
01-10	ED330066	BIND HEAD SCREW	3x6 FCM3-BL	バインドヘッドネジ		
01-11	EI330066	BIND HEAD TAPPING SCREW	3x6 FCM3-BL	バインドタッピングネジ		
01-12	EK336010	BW HEAD TAPPING SCREW	3x8 FCM3-BL	BWヘッドタッピングネジ		
* 02	VK198800	OPERATION CIRCUIT BOARD		オペレーションシート		
* 03	VJ831700	SUB CHASSIS		サブシャーシ		
* 04	VK054200	BUTTON CASE		ボタンケース	BL	
* 04	VK054100	BUTTON CASE		ボタンケース	T	
05	VJ892300	SUPPORT	R	サポート		
06	VJ892400	SUPPORT	L	サポート		
07	VJ892100	RADIATOR	1.900	ラジエータ		
08	VK196000	SHEET	22x29	シート		
09	VK173200	SCREW	3x15 FCM3	ネジ		
10	IX614360	TRANSISTOR	2SA1302 0,R	トランジスタ	Q150, 153, 156	△
11	IX614370	TRANSISTOR	2SC3281 0,R	トランジスタ	Q148, 151, 154	△
* 12	VK200400	MAIN CIRCUIT BOARD		メインシート		A
* 12	VK200000	MAIN CIRCUIT BOARD		メインシート		J
* 12	VK200300	MAIN CIRCUIT BOARD		メインシート		R
* 12	VK200100	MAIN CIRCUIT BOARD		メインシート		U,C
* 13	VK201300	INPUT CIRCUIT BOARD		インプットシート		A
* 13	VK201200	INPUT CIRCUIT BOARD		インプットシート		R
* 13	VK201100	INPUT CIRCUIT BOARD		インプットシート		U,C
* 13	VK201000	INPUT CIRCUIT BOARD		インプットシート		J
* 14	VK201500	DSP CIRCUIT BOARD		DSPシート		
* 15	VK201700	TUNER CIRCUIT BOARD		チューナシート		U,C
* 15	VK201900	TUNER CIRCUIT BOARD		チューナシート		A
* 15	VK201600	TUNER CIRCUIT BOARD		チューナシート		J
* 15	VK201800	TUNER CIRCUIT BOARD		チューナシート		R
* 16	XI490A00	POWER TRANSFORMER		電源トランス		J
* 16	XI492A00	POWER TRANSFORMER		電源トランス		C
16-1	VH583900	SLIDE SWITCH		スライドSW		C
* 16	XI494A00	POWER TRANSFORMER		電源トランス		A
* 16	XI491A00	POWER TRANSFORMER		電源トランス		U
* 16	XI493A00	POWER TRANSFORMER		電源トランス		R
17	VI449800	VOLTAGE SELECTOR	ESE-37284-F	電圧切替器		R

※New Parts (新規部品)

リンク : Japan only

Ref. NO.	PART NO.	Description	部 品 名	Remarks	Markets	ランク
18	HG002220	POWER CORD	10A	電源コード	U,C	
18	VCG14400	POWER CORD	12A 2H	電源コード	J	
18	HG001630	POWER CORD	7A 2H	電源コード	R	
18	HG002310	POWER CORD	7.5A	電源コード	A	
19	CB620200	CORD STOPPER	CH-22C	コードストッパー	U,C	
19	CB620190	CORD STOPPER	CH-22B	コードストッパー	R,A	
20	VCG26100	AC OUTLET	S2-739T	電源コネクタ	A	
21	LB101110	SHORT PIN		ショートピン	U,C,R,A	
21	LB101890	SHORT PIN		ショートプラグ	J	
22	VJ895400	TOP COVER		トップカバー	J	
22	VJ895100	TOP COVER		トップカバー	BL	U,C,R,A
22	VJ895300	TOP COVER		トップカバー	BL	J
22	VJ895200	TOP COVER		トップカバー	T	U,C,R,A
23	VK706800	DAMPER	TOP	ダンパー		
24	VJ892600	FRAME	L	フレーム		
* 25	VJ892700	FRAME	R	フレーム		
26	VJ892800	FRAME	CENTER	フレーム		
* 27	VJ893000	SHIELD CASE		シールドケース		
29	VJ893400	BOTTOM COVER		ボトムカバー		
* 30	VJ895000	REAR PANEL		リヤパネル	A	
* 30	VJ894800	REAR PANEL		リヤパネル	C	
* 30	VJ894900	REAR PANEL		リヤパネル	R	
* 30	VJ894600	REAR PANEL		リヤパネル	J	
* 30	VJ894700	REAR PANEL		リヤパネル	U	
31	VK434000	SHEILD CASE		シールドケース B		
32	VJ895500	FRAME	A	フレーム		
33	VJ895600	FRAME	B	フレーム		
* 34	VK839200	TR. PUSHER		TR プッシャー		
* 35	VJ895900	SUPPORT	PCB	サポート		
* 36	VJ833100	SIDE COVER		サイドカバー	BL	U,C,R,A
* 36	VJ833000	SIDE COVER		サイドカバー	T	U,C,R,A
* 37	VK337100	SIDE COVER		サイドカバー		J
38	VK492400	SPACER		スペーサ		J
39	VK015100	KNOB		ノブ	BL	
39	VK015200	KNOB		ノブ	T	
40	VJ891400	KNOB		ノブ	T	
40	VGO78900	KNOB		ノブ	BL	
41	VJ891500	KNOB		ノブ	T	
41	VGO79100	KNOB		ノブ	BL	
42	VH816000	BUTTON	3/14	ボタン	BL	
42	VH816100	BUTTON	3/14	ボタン	T	
43	VI615200	LEG		レッグ		
* 44	VJ832900	SHEET		シート		
45	CB005620	PLASTIC RIVET	NO.1057	ブラリベット		
46	CB068880	PLASTIC RIVET	#1027	ブラリベット		
* 47	VK537000	GROUND PLATE		アースプレート		
48	CB069250	BINDING TIE		束線止め		
49	CB040540	BINDING TIE	S-72B	束線止め		
50	EK336010	BW HEAD TAPPING SCREW	3x8 FCH3-BL	BWヘッドタッピングネジ		
51	EK365090	BW HEAD SCREW	4x8 ZHC2-BL	BWヘッドネジ	BL	U,C,R,A

*New Parts (新規部品)

ランク : Japan only

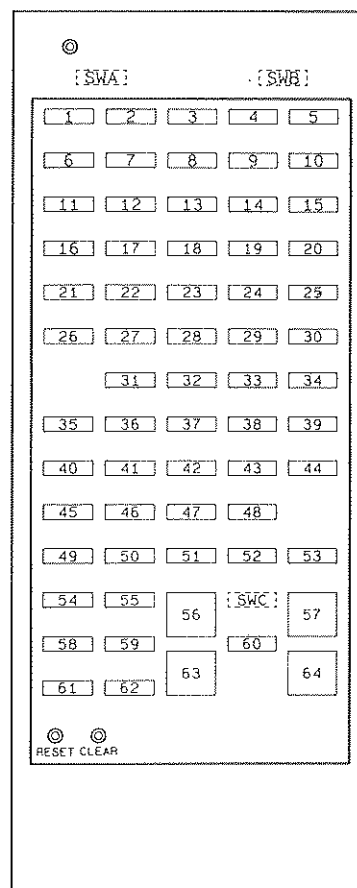
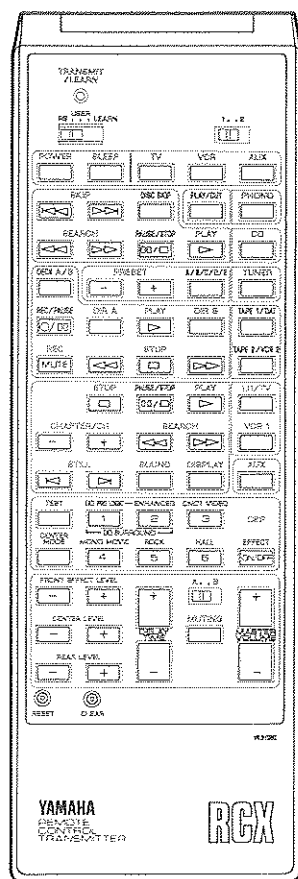
Ref. NO.	PART NO.	Description	部 品 名	Remarks	Markets	ランク
51	EX601150	BW HEAD S-TITE SCREW	4x8-10 FNM3-BL BWH Sタイトネジ	T	U.C.R.A	
51	VC077200	FLAT HEAD S-TITE SCREW	4x27 FCRM3-BR 平Sタイトネジ		J	
52	EX600700	BW HEAD TAPPING SCREW	3x8 FCRM3 BWヘッドタッピングネジ			
53	EN301010	BIND HEAD BONDING TAP SCREW	3x8 FCRM3-BL ボンディングBタイトネジ			
54	EI330086	BIND HEAD TAPPING SCREW	3x8 FCRM3-BL バインドBタイトネジ			
55	VK625000	CUP S-TYTE SCREW	5x10 ZMC2-BL カップSタイトネジ			
56	ED330066	BIND HEAD SCREW	3x6 FCRM3-BL バインド小ネジ			
57	EV413036	TOOTHED LOCKED WASHER	3MM FCM3-BL 歯付座金			
58	AA627310	GROUND TERMINAL	GNDターミナル			
59	EV265560	PLAIN WASHER	3.6x10x0.8 FNM3-3G 平座金みがき丸			
60	VK962900	SPRING WASHER	7x13x1 FCM3-BR パネ座金		J	
62	EI330086	BIND HEAD TAPPING SCREW	3x8 FCRM3-BL バインドBタイトネジ			
63	EI326086	PAN HEAD TAPPING SCREW	2.6x8 FCRM3-BL ナベタッピングネジ			
64	VK865300	SCREW, IC	3x18 FCM3-BL ネジ			
65	EX600250	CUP TYTE SCREW	3x10 FCRM3-BL カップタイトネジ			
66	VK675900	SUPPORT	OP サポート OP			
67	VK901900	RING CORE	リングコア		U	
68	VL126500	DAMPER/L	ダンパー			
69	VL055600	DAMPER/SIDE	ダンパー			
70	VL123400	PLATE	プレート		C	
71	VL024400	SHEET	シート			
		ACCESSORIES	附属品			
80	VJ979200	REMOTE CONTROL TRANSMITTER	トランスミッター		U.C.R.A	
80	VK324900	REMOTE CONTROL TRANSMITTER	トランスミッター		J	
80-1	CX615940	LID	電池蓋			
		DRY CELL	1.5V LR6(2S)HE アルカリマンガン電池			
	VE366200	LOOP ANTENNA	ループアンテナ			
	VG850600	ANTENNA, FM	1P 1.42M FMアンテナコード		U.C.R	
	VG805000	ANTENNA, FM	PAL FMアンテナコード		J.A	
	VK206800	F-TYPE PLUG	1P YAE21-0235 F型プラグ		J.A	

※New Parts (新規部品)

ランク : Japan only

■ SCHEMATIC DIAGRAM





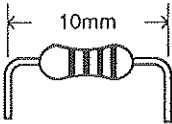
KEY No.	CONTROL CODE		FUNCTION	KEY No.	CONTROL CODE		FUNCTION	KEY No.	CONTROL CODE		FUNCTION
SW B	1	2		27	7A-01	←	⏮	SW C	A	B	
1	7A-1F	←	POWER ON/OFF	28	7A-03	←	STOP	54	7A-81	←	FRONT EFFECT -
2	7A-57	←	SLEEP	29	7A-02	←	⏭	55	7A-80	←	FRONT EFFECT +
3	—	←	TV	30	7A-18	←	INPUT TAPE	56	7A-52	←	DELAY TIME +
4	—	←	VCR	31	7C-5B	←	STOP	57	7A-1A	←	MASTER VOLUME +
5	—	←	AUX	32	7C-04	←	PAUSE/STOP	58	7A-83	←	CENTER LEVEL -
6	7A-0B	←	CD SKIP ⏮	33	7C-05	←	PLAY	59	7A-82	←	CENTER LEVEL +
7	7A-0A	←	SKIP ⏭	34	7A-17	←	INPUT LD/TV	60	7A-1C	←	MUTE
8	7A-4F	←	CD DISC (UP)	35	7C-02	←	LD CHAPTER -	61	7A-5F	←	REAR LEVEL -
9	7A-0E	←	PHONO PLAY/CUT	36	7C-03	←	CHAPTER +	62	7A-5E	←	REAR LEVEL +
10	7A-14	←	INPUT PHONO	37	7C-06	←	SEARCH ⏮	63	7A-53	←	DELAY TIME -
11	7A-0D	←	SEARCH ⏮	38	7C-07	←	SEARCH ⏭	64	7A-1B	←	MASTER VOLUME -
12	7A-0C	←	SEARCH ⏭	39	7A-0F	←	INPUT VCR				
13	7A-09	←	PAUSE/STOP	40	7C-0A	←	STILL ⏮				
14	7A-08	←	PLAY	41	7C-0B	←	STILL ⏭				
15	7A-15	←	INPUT CD	42	7C-12	←	LD SOUND				
16	7A-06	←	TAPE A/B	43	7C-13	←	LD DISPLAY				
17	7A-11	←	TUNER -	44	7A-13	←	INPUT AUX				
18	7A-10	←	+	45	7A-85	←	TEST				
19	7A-12	←	A-E	46	7A-88	←	PROGRAM 1				
20	7A-16	←	INPUT TUNER	47	7A-89	←	PROGRAM 2				
21	7A-04	←	TAPE REC/PAUSE	48	7A-8A	←	PROGRAM 3				
22	7A-07	←	DIR A	49	7A-84	←	CENTER MODE				
23	7A-00	←	PLAY	50	7A-8B	←	PROGRAM 4				
24	7A-40	←	DIR B	51	7A-8C	←	PROGRAM 5				
25	7A-19	←	INPUT DAT	52	7A-8D	←	PROGRAM 6				
26	7A-05	←	TAPE REC MUTE	53	7A-56	←	PROGRAM ON/OFF				

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	HF853100	12 K Ω	HJ35 7120	HF85 7120
1.8 Ω	HJ35 3180	*	15 K Ω	HJ35 7150	HF85 7150
2.2 Ω	HJ35 3220	HF853220	18 K Ω	HJ35 7180	HF85 7180
3.3 Ω	HJ35 3330	HF853330	22 K Ω	HJ35 7220	HF85 7220
4.7 Ω	HJ35 3470	HF853470	27 K Ω	HJ35 7270	HF85 7270
5.6 Ω	HJ35 3560	HF853560	33 K Ω	HJ35 7330	HF85 7330
10 Ω	HJ35 4100	HF854100	39 K Ω	HJ35 7390	HF85 7390
15 Ω	HJ35 4150	HF854150	47 K Ω	HJ35 7470	HF85 7470
22 Ω	HJ35 4220	HF854220	56 K Ω	HJ35 7560	HF85 7560
27 Ω	HJ35 4270	HF854270	68 K Ω	HJ35 7680	HF85 7680
33 Ω	HJ35 4330	HF854330	82 K Ω	HJ35 7820	HF85 7820
39 Ω	HJ35 4390	HF854390	91 K Ω	HJ35 7910	HF85 7910
47 Ω	HJ35 4470	HF854470	100 K Ω	HJ35 8100	HF85 8100
56 Ω	HJ35 4560	HF854560	120 K Ω	HJ35 8120	HF85 8120
68 Ω	HJ35 4680	HF854680	150 K Ω	HJ35 8150	HF85 8150
82 Ω	HJ35 4820	HF854820	180 K Ω	HJ35 8180	HF85 8180
100 Ω	HJ35 5100	HF855100	220 K Ω	HJ35 8220	HF85 8220
110 Ω	HJ35 5110	HF855110	270 K Ω	HJ35 8270	HF85 8270
120 Ω	HJ35 5120	HF855120	330 K Ω	HJ35 8330	HF85 8330
150 Ω	HJ35 5150	HF855150	390 K Ω	HJ35 8390	HF85 8390
160 Ω	HJ35 5160	*	470 K Ω	HJ35 8470	HF85 8470
180 Ω	HJ35 5180	HF855180	560 K Ω	HJ35 8560	HF85 8560
220 Ω	HJ35 5220	HF855220	680 K Ω	HJ35 8680	HF85 8680
270 Ω	HJ35 5270	HF855270	820 K Ω	HJ35 8820	HF85 8820
330 Ω	HJ35 5330	HF855330	1.0 M Ω	HJ35 9100	HF85 9100
390 Ω	HJ35 5390	HF855390	1.2 M Ω	HJ35 9120	*
470 Ω	HJ35 5470	HF855470	1.5 M Ω	HJ35 9150	HF85 9150
510 Ω	*	HF855510	1.8 M Ω	HJ35 9180	HF85 9180
560 Ω	HJ35 5560	HF855560	2.2 M Ω	HJ35 9220	HF85 9220
680 Ω	HJ35 5680	HF855680	3.3 M Ω	HJ35 9330	HF85 9330
820 Ω	HJ35 5820	HF855820	3.9 M Ω	HJ35 9390	*
910 Ω	HJ35 5910	HF855910	4.7 M Ω	HJ35 9470	HF85 9470
1.0 K Ω	HJ35 6100	HF856100			
1.2 K Ω	HJ35 6120	HF856120			
1.5 K Ω	HJ35 6150	HF856150			
1.8 K Ω	HJ35 6180	HF856180			
2.0 K Ω	HJ35 6200	HF856200			
2.2 K Ω	HJ35 6220	HF856220			
2.4 K Ω	HJ35 6240	HF856240			
2.7 K Ω	HJ35 6270	HF856270			
3.0 K Ω	HJ35 6300	HF856300			
3.3 K Ω	HJ35 6330	HF856330			
3.6 K Ω	HJ35 6360	HF856360			
3.9 K Ω	HJ35 6390	HF856390			
4.7 K Ω	HJ35 6470	HF856470			
5.1 K Ω	HJ35 6510	HF856510			
5.6 K Ω	HJ35 6560	HF856560			
6.8 K Ω	HJ35 6680	HF856680			
8.2 K Ω	HJ35 6820	HF856820			
9.1 K Ω	HJ35 6910	HF856910			
10 K Ω	HJ35 7100	HF857100			

1/4W Type

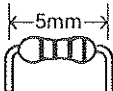
HJ35 ○○○○



10mm

1/6W Type

HF85 ○○○○



5mm