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Service Manual

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ORDER NO. MD0205131C2

Service Manual

AV Control Receiver



- SA-HE100E
SA-HE100EB
SA-HE100EG

Colour

(K) ... Black Type



FM Tuner Section

Frequency range	87.50-108.00 MHz
Sensitivity	
S/N 30 dB	1.5 μ V/ 75 Ω
S/N 26 dB	1.3 μ V/ 75 Ω
S/N 20 dB	1.2 μ V/ 75 Ω
IHF usable sensitivity (IHP'58)	1.5 μ V/ 75 Ω
IHF 46 dB stereo quieting sensitivity	22 μ V/ 75 Ω
Total harmonic distortion	
MONO	0.2%
STEREO	0.3%
S/N	
MONO	60 dB (73 dB, IHF)
STEREO	58 dB, (67 dB, IHF)
Frequency response	20 Hz -15 kHz,+1 dB, -2 dB
Alternate channel selectivity	
$\pm$ 400 kHz	65 dB
Capture ratio	1.5 dB
Image rejection at 98 MHz	40 dB
IF rejection at 98 MHz	70 dB
Spurious response rejection at 98 MHz	70 dB
AM suppression	50 dB
Stereo separation	
1 kHz	40 dB

Carrier leak	
19 kHz	-30 dB (-35 dB, IHF)
38 kHz	-50 dB (-55 dB, IHF)
Channel balance (250 Hz - 6.3 kHz)	±1.5 dB
Limiting point	1.2 μ V
Bandwidth	
IF amplifier	180 kHz
FM demodulator	1000 kHz
Antenna terminal	75Ω (unbalanced)
AM Tuner Section	
Frequency range	522-1611 kHz (9 kHz steps) 530-1620 kHz (10 kHz steps)
Sensitivity	20 μ V, 330 μ V/m
Selectivity (at 999 kHz)	55 dB
IF rejection (at 999 kHz)	50 dB
Video Section	
Output voltage at 1 V input (unbalanced)	1±0.1 Vp-p
Maximum input voltage	1.5 Vp-p
Input/output impedance	75Ω (unbalanced)
Amplifier Section	
Power output	
For EB only	240V
DIN 1 kHz (T.H.D. 1%)	2 x 100 W (6Ω)
40 Hz - 20 kHz continuous power output both channels driven	2 x 80 W (6Ω)
Total harmonic distortion	
Rated power at 40 Hz-20 kHz	0.9% (6Ω)
Half power at 1 kHz	0.07% (6Ω)
Power output at 1 kHz each channel drive	
DIN 1 kHz (T.H.D. 1%)	
Front (L, R)	100 W (6Ω)
Center	100 W (6Ω)
Surround (L, R, Back)	100 W (6Ω)
Power bandwidth both channels driven, -3 dB	10Hz - 70 kHz (6Ω)
Damping factor	30 (6Ω)
Load impedance	
Front (L, R)	(A or B) 4-16Ω (A and B) 8-16Ω
Center	6-16Ω
Surround (L, R, Back)	6-16Ω
Frequency response	
PHONO	RIAA standard curve (30 Hz - 15 kHz)±0.8 dB
CD, TAPE/MD, DVD, TV, VCR1, VCR2	10 Hz-40 kHz,±3 dB
Input sensitivity and impedance	
PHONO	3 mV/47 kΩ
CD, TAPE/MD, DVD, TV, VCR1, VCR2	200 mV/22 kΩ
S/N at rated power (6Ω)	
PHONO	70dB (IHF, A:80 dB)

CD, TAPE/MD, DVD, TV, VCR1, VCR2	75dB (IHF, A:85 dB)
DVD6CH	100dB (IHF A, Rated power, S=2V)
Output voltage	
TAPE/MD REC (OUT), VCR1, VCR2	200 mV
Tone controls	
BASS	50 Hz,+10 to -10 dB
TREBLE	20 kHz,+10 to -10 dB
Channel balance (250 Hz - 6.3 kHz)	±1 dB
Channel separation	55 dB
Headphones output level and impedance	430 mV/ 330Ω
Subwoofer frequency response (-6 dB)	7-200 Hz

General

Power supply	
For E and EG only	AC 230 V, 50 Hz
For EB only	AC 230-240 V, 50 Hz
Power consumption	250 W
Dimensions (W x H x D)	430 x 158 x 390 mm
Mass	10.6 kg
Power consumption in standby mode:	2 W

Notes:

1. Specifications are subject to change without notice.
Mass and dimensions are approximate.
2. Total harmonic distortion is measured by the digital spectrum analyzer.

* Manufactured under license from Dolby Laboratories.“Dolby”,“Pro Logic” and the double-D symbol are trademarks of Dolby Laboratories.

** Manufactured under license from Digital Theater System.“DTS” and“DTS Digital Surround” are registered trademarks of Digital Theater System.

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WARNING

This service information is designed for experienced repair technicians only and is not designed for use by the general public. It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product. Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products dealt with in this service information by anyone else could result in serious injury or death.

Panasonic

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1 Before Repair and Adjustment

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Disconnect AC power, discharge Power Supply Capacitors C703 - C706, C901, C904 and C1701 through a 10 Ω , 5 W resistor to ground. DO NOT SHORT-CIRCUIT DIRECTLY (with a screw driver blade, for instance), as this may destroy solid state devices.

After repairs are completed, restore power gradually using a variac, to avoid over current.

Current consumption at AC 230V, 50Hz in NO SIGNAL mode should be 100~800 mA.

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2 Protection Circuitry

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The protection circuitry may have operated if either of the following conditions are noticed:

- No sound is heard when the power is turned on.
- Stops during a performance.

The function of this circuitry is to prevent circuitry damage if, for example, the positive and negative speaker connection wires are “shorted”, or if speaker systems with an impedance less than the indicated rated impedance of the amplifier are used.

If this occurs, follow the procedure outlines below:

1. Turn off the power.
2. Determine the cause of the problem and correct it.
3. Turn on the power once again after one minute.

Note:

When the protection circuitry functions, the unit will not operate unless the power is first turned off and then on again.

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3 Accessories

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AC Main Lead (For EB only)



AC Main Lead (For E and EG only)



AM Loop Antenna Set



FM Indoor Antenna



Antenna plug adapter (For EB only)



Remote Control



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4 Caution for AC Main Lead

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(For “EG” area code model only.)

For your safety, please read the following text carefully.

This appliance is supplied with a moulded three pin mains plug for your safety and convenience.
A 5-ampere fuse is fitted in this plug.
Should the fuse need to be replaced please ensure that the replacement fuse has a rating of 5-ampere and that it is approved by ASTA or BS to BS1362.
Check for the ASTA mark (Ⓜ) or the BS mark (BS) on the body of the fuse.
If the plug contains a removable fuse cover you must ensure that it is refitted when the fuse is replaced.
If you lose the fuse cover, the plug must not be used until a replacement cover is obtained.
A replacement fuse cover can be purchased from your local dealer.

CAUTION!
IF THE FITTED MOULDED PLUG IS UNSUITABLE FOR THE SOCKET OUTLET IN YOUR HOME THEN THE FUSE SHOULD BE REMOVED AND THE PLUG CUT OFF AND DISPOSED OFF SAFELY.
THERE IS A DANGER OF SEVERE ELECTRICAL SHOCK IF THE CUT OFF PLUG IS INSERTED INTO ANY 13-AMPERE SOCKET.

If a new plug is to be fitted, please observe the wiring code as shown below.
If in any doubt please consult a qualified electrician.

IMPORTANT
The wires in this mains lead are coloured in accordance with the following code:
Blue: Neutral
Brown: Line
As these colours may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows:
The wire which is coloured Blue must be connected to the terminal which is marked with the letter N or coloured Black or Blue.

The wire which is coloured Brown must be connected to the terminal which is marked with the letter L or coloured Brown or Red.

WARNING: DO NOT CONNECT EITHER WIRE TO THE EARTH TERMINAL WHICH IS MARKED WITH THE LETTER E, BY THE EARTH SYMBOL ⚡ OR COLOURED GREEN OR GREEN/YELLOW.

THIS PLUG IS NOT WATERPROOF—KEEP DRY.

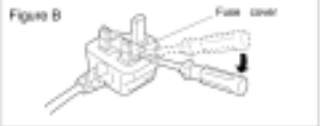
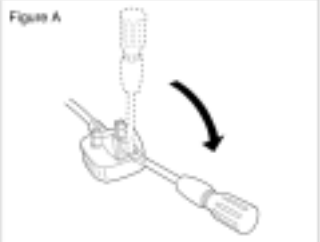
Before use

Remove the connector cover.

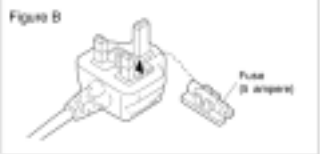
How to replace the fuse

The location of the fuse differs according to the type of AC mains plug (Figures A and B). Continue the AC-mains plug fitted and follow the instructions below.
Illustrations may differ from actual AC mains plug.

1. Open the fuse cover with a screwdriver.



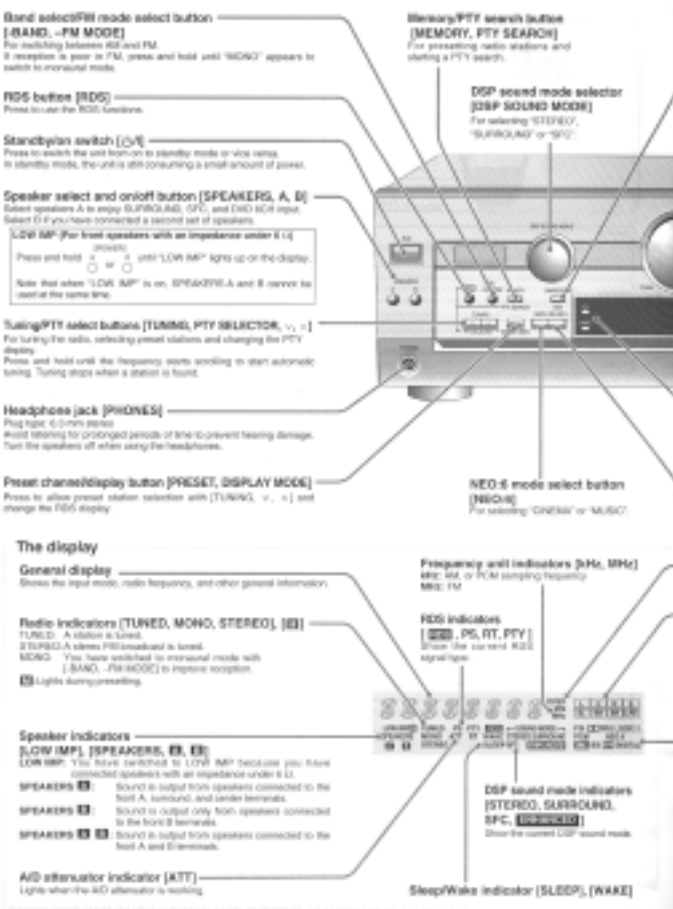
2. Replace the fuse and close or attach the fuse cover.



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5 Front Panel Controls

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[illegible]

3 TV

Switch on

Switch on the television and select input

Switch off

Operating the TV

4 CD

Switch on

Switch on the recorder

Switch off

Operating the CD player

5 RADIO

Switch on

Switch on the recorder

Switch off

Operating the radio

6 TAPE

Switch on

Switch on the recorder

Switch off

Operating the tape deck

7 SOUND

Select STEREO

Select GUIDELINE

Start a test signal

Stop the test signal

Change the speaker channel and adjust its output level

Change the sound effect

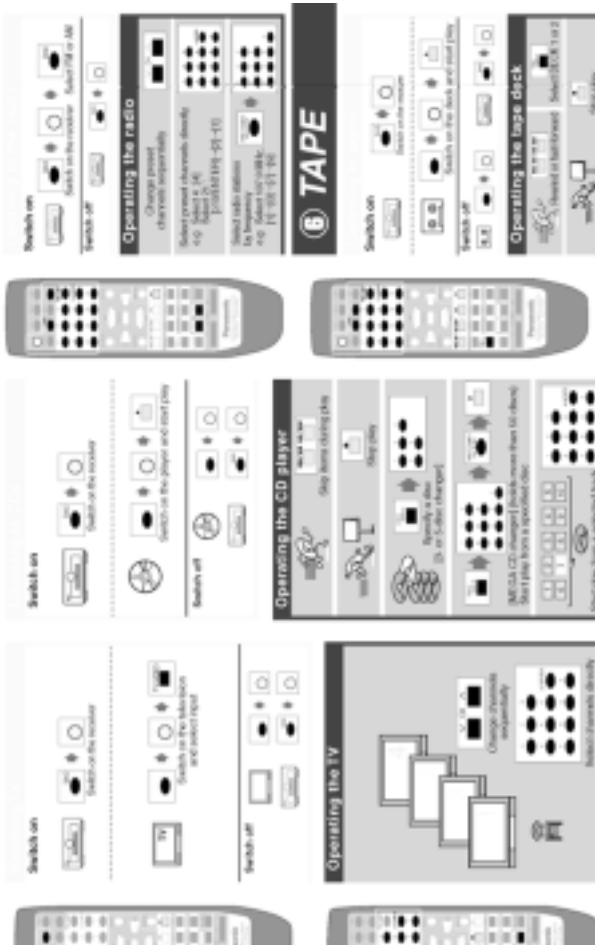
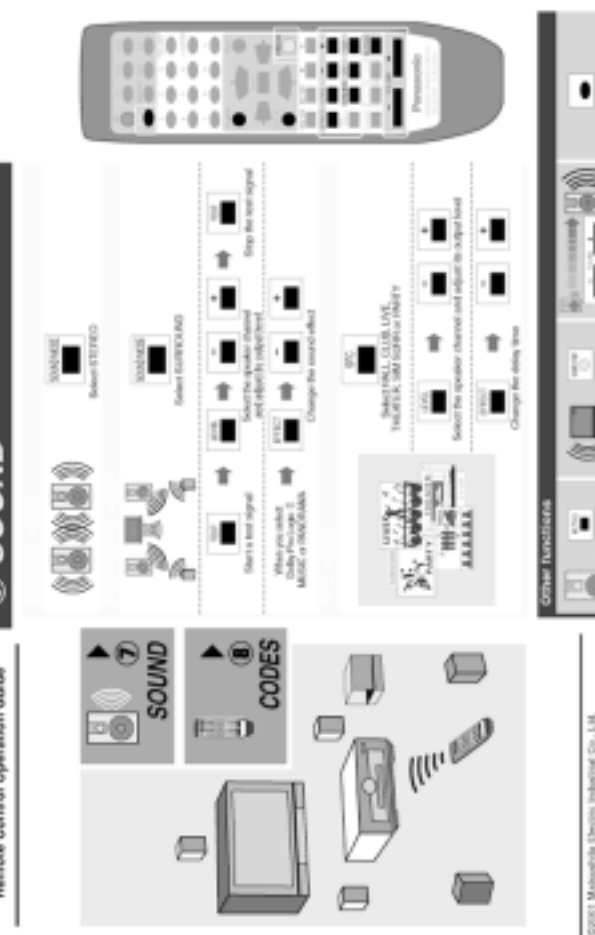
Adjust the speaker channel and adjust its output level

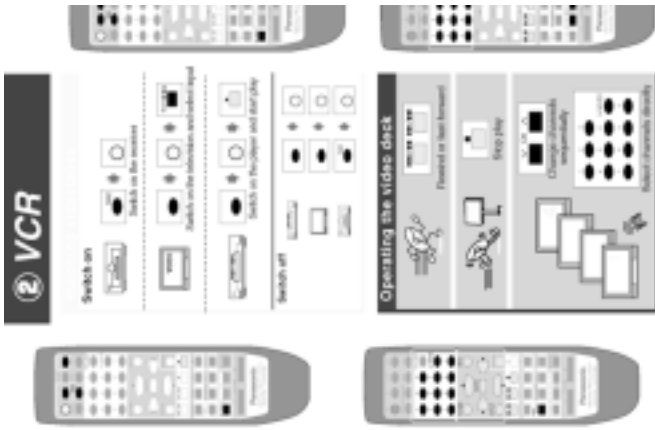
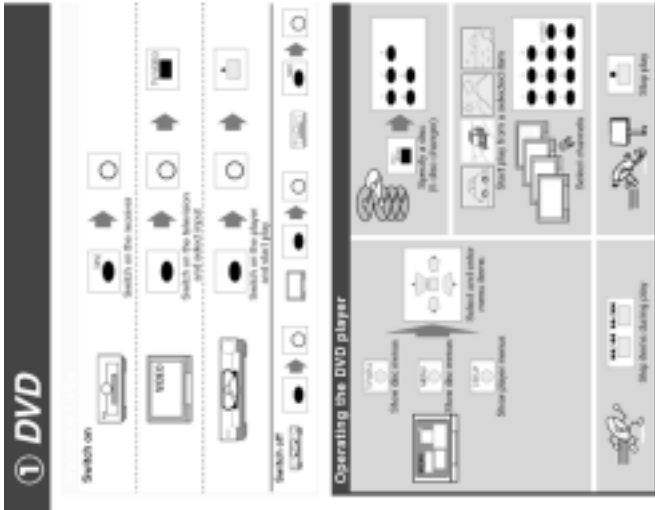
Change the delay time

Other functions

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7 Disassembly and Main Component Replacement Procedures

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“ATTENTION SERVICER”

Some chassis components may have sharp edges. Be careful when disassembling and servicing.

1. This section describes procedures for checking the operation of the major printed circuit boards and replacing the main components.
2. For reassembly after operation checks or replacement, reverse the respective procedures. Special reassembly procedures are described only when required.
3. Select items from the following index when checks or replacement are required.

Content

- [Disassembly Procedure for each major P.C.B.](#)
- [Main Component Replacement Procedures](#)
 1. Replacement of the Power IC and Regulator Transistor
 2. Installation of the bottom cover after replacement

[7.1 Disassembly Procedure for each major P.C.B.](#)

[7.2 Main Component Replacement Procedures](#)

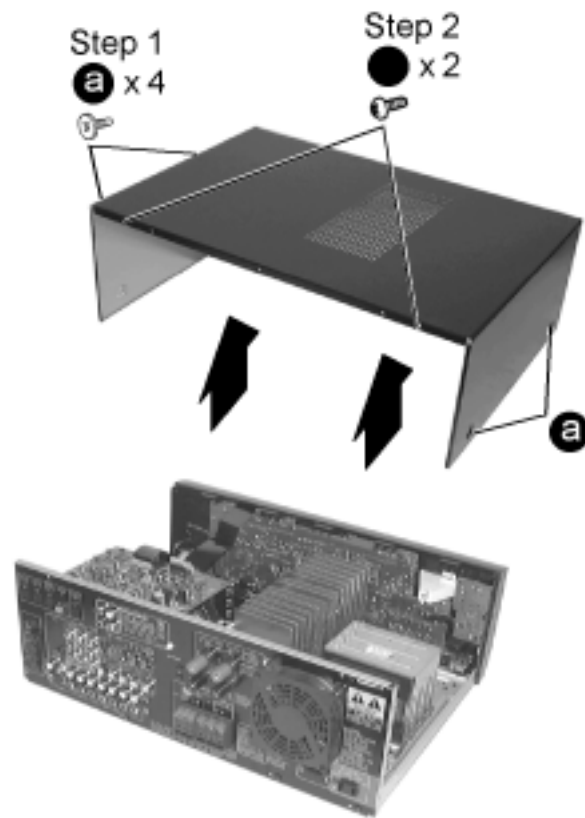
[7.2.1 Replacement of the Power IC and Regulator Transistor](#)

[7.2.2 Installation of the bottom cover after replacement](#)

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7.1 Disassembly Procedure for each major P.C. B.

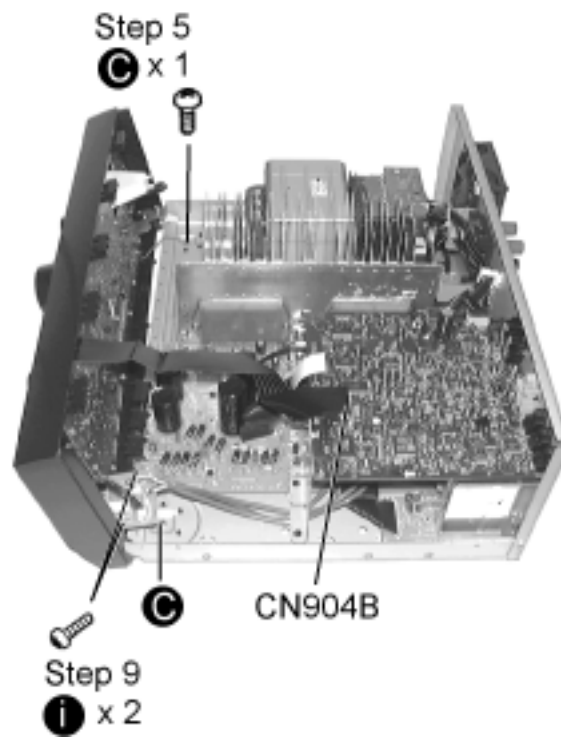
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Step 1 & 2 Unscrew and remove top cabinet as shown.

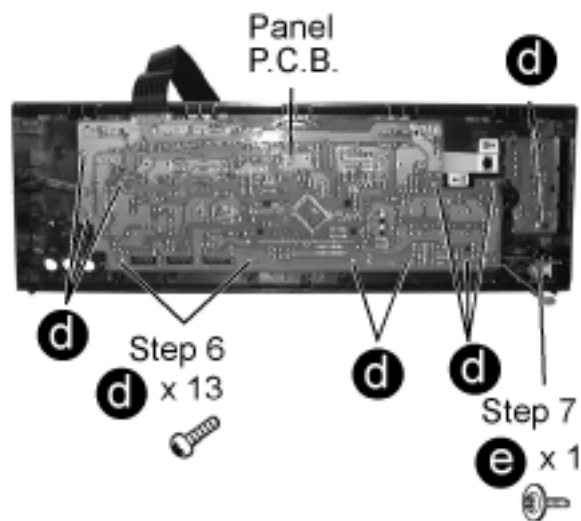


Step 3 Remove all the screws.

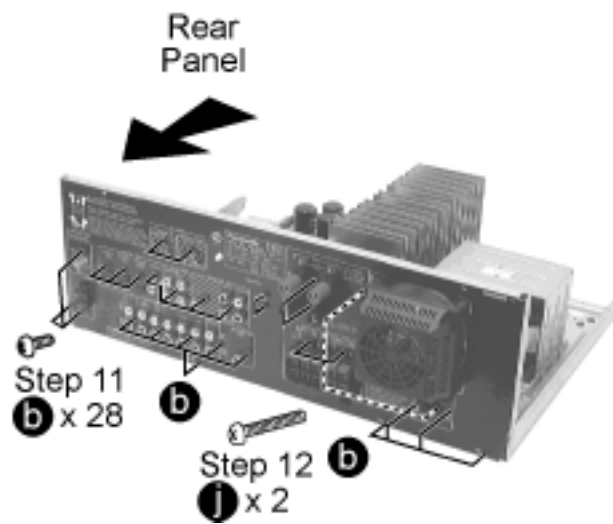


Step 4 Release the connector CN904B.

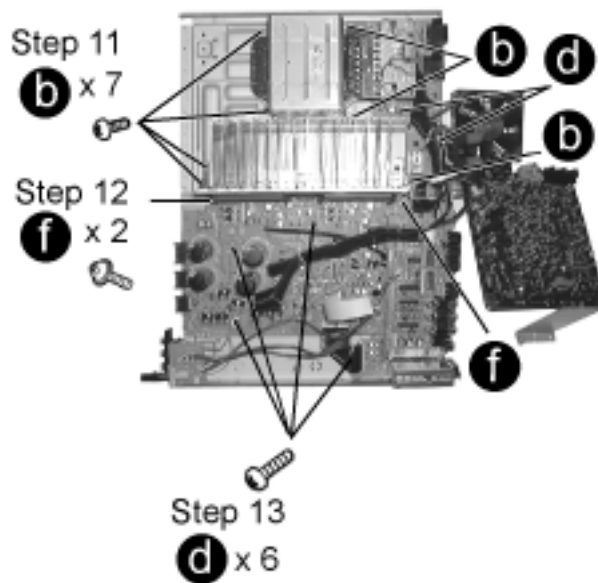
Step 5 Remove the screw.



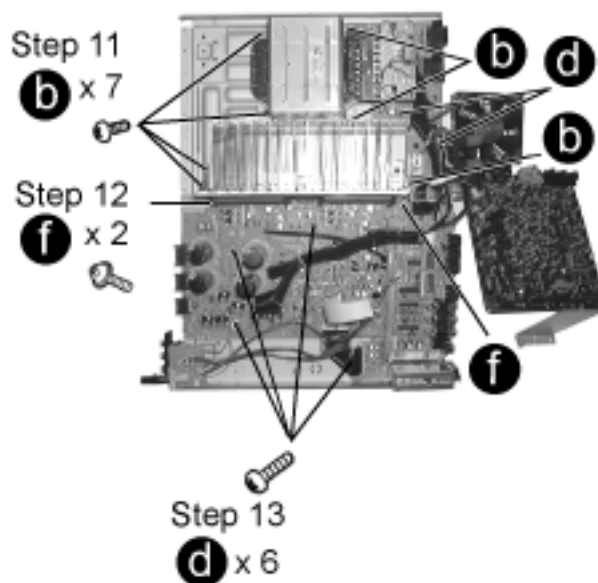
Step 6 & 7 Remove all the screws.



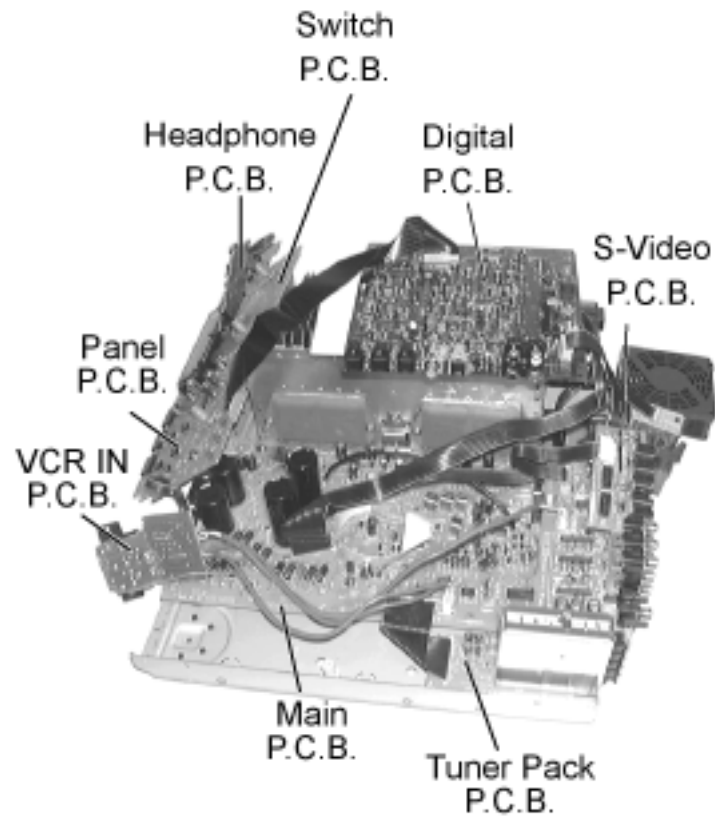
[Step 8](#) Remove the Selector knob and Volume knob, Unscrew the nut and remove the Volume ring.



[Step 9](#) Remove all the screws.



[Step 10](#) Release the connectors CN702 and CN1000A. Pull up the Digital P.C.B. as shown.



[Step 11, 12 & 13](#) Remove all the screws.

Reconnect all wires and connectors to test all P.C.B..

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7.2 Main Component Replacement Procedures

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[7.2.1 Replacement of the Power IC and Regulator Transistor](#)

[7.2.2 Installation of the bottom cover after replacement](#)

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7.2.1 Replacement of the Power IC and Regulator Transistor

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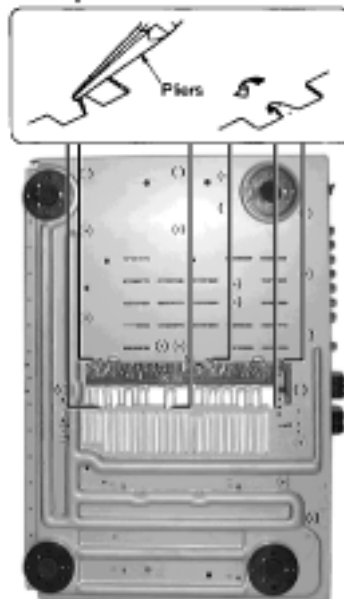
Step 1 Remove the top cabinet.

Step 2



Step 2 Cut the joints as shown below. (6 joints)

Step 3

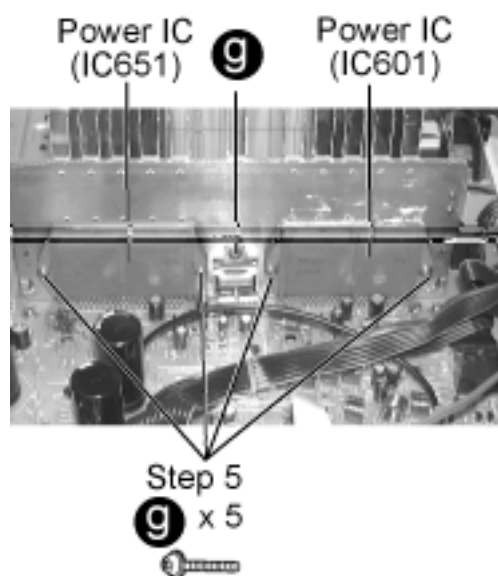


Step 3 Fold the joints. (6 joints)

Step 4



[Step 4](#) Desolder the terminals of Power IC and Regulator Transistor.

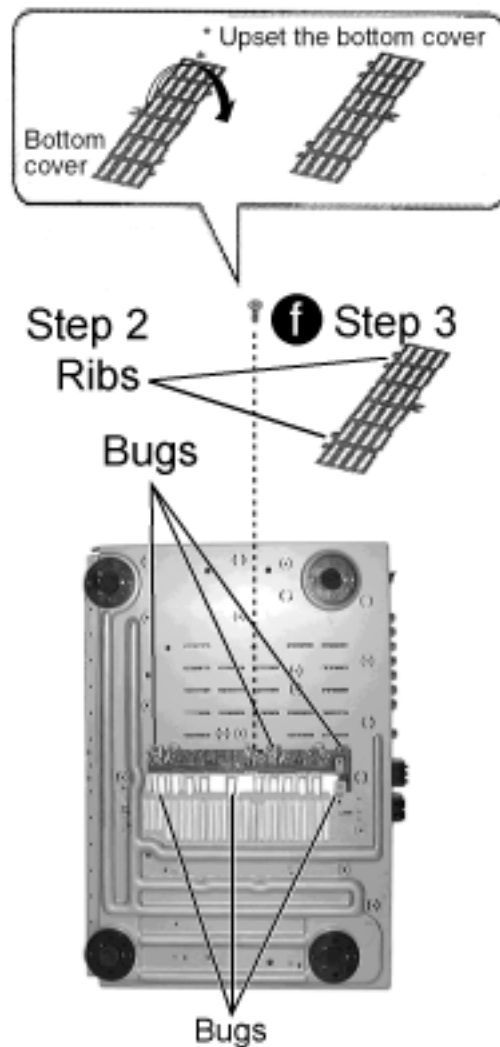


[Step 5](#) Remove all the screws.

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7.2.2 Installation of the bottom cover after replacement

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Step 1 Upset the bottom cover.

Step 2 Align the ribs of bottom cover into the bugs.

Step 3 Prepare the screws to fix the bottom cover.

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8 Self-Diagnostic Function

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[8.1 Self-Diagnostic Function and Service Mode](#)

[8.1.1 Display Content](#)

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8.1 Self-Diagnostic Function and Service Mode

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[8.1.1 Display Content](#)

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8.1.1 Display Content

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Item	Abnormal Status	Error Display
Low Frequency	Abnormal power amp output	F61
	Abnormal communication between peripheral LST and Micro Computer	F70
Power Supply Display	Abnormal Stabilized power supply	F76

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9 Type Illustrations of ICs, Transistors& Diodes

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10 Terminal Functions of ICs

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- IC901 (C2BBGF000316) MICRO COMPUTER

Pin No.	Mark	I/O	Function
1~2	KEY1~KEY2	I	Key Input 1~2
3	RDS_CLK	-	RDS Decoder IC - CLOCK
4	RDS_DO	-	RDS Decoder IC - DATA OUT
5	RDS_DI	-	RDS Decoder IC - DATA IN
6	RDS_CE	-	RDS Decoder IC - CE
7	THRM/OVLD_1	I	Over Load Input 1
8	THRM/OVLD_2	I	Over Load Input 2
9	SD	I	SD Signal Input
10	IF_DATA	I	IF DATA Input
11	TNR_CE	O	Tuner Control - CE
12	S_MODE_ENCD_A	I	Sound Mode Encoder - A
13	S_MODE_ENCD_B	I	Sound Mode Encoder - B
14	TC9482_CLK	O	Master Volume Control - CLK
15	TC9482_DT	O	Master Volume Control - DT
16	TC9482_ST	O	Master Volume Control - ST
17	CNVSS	-	-
18	RESET	-	Reset Detect Terminal
19	VOL_ENCD_A	I	Volume Encoder Input 1
20	VOL_ENCD_B	I	Volume Encoder Input 2
21	VSS	I	Ground
22	XIN	I	Crystal Oscillator Terminal (4 MHz)
23	XOUT	O	Crystal Oscillator Terminal (4 MHz)
24	VCC	I	Power Supply Terminal
25	AK4586_INT1	I	AK4586_INTL Terminal
26	AK4586_OVLERR	I	AK4586 Overload Error Input
27	AK4586_CDOUT	I	AK4586 Serial Data Input
28	AK4586_CS	I	AK4586 Chip Selector
29	AK4586_INT0	I	AK4586 INT0 Terminal

30	CS493xx_INTREQ	I	CS493xx Input Request
31	REMOTE	I	Remote Control Terminal
32	HOLD	I	Power Down Detect
33	FRONT_VCR	I	Front VCR Select
34	DSP_SW	O	DSP Bypass/On Switch
35	AK4382_CS	O	AK4382 Chip Selector
36	A16	O	External ROM Address - A16
37	LED_DT	O	LED - DT
38	LED_CLK	O	LED - CLK
39	LED_LCK	O	LED - LCK
40	A14	O	External ROM Address - A14
41	SEL_ENCD_A	I	Selector Encoder A
42	SEL_ENCD_B	I	Selector Encoder B
43	A15	O	External ROM Address -A15
44	VCR_REC_MUTE	O	VCR Rec Mute Control
45	LIMITER	O	Power Limiter Control
46	TC916x_STB	O	Selector/DVD 6CH - ST
47	TC916x_TNR_CK	O	Selector/Tuner/DVD 6CH SW -CK
48	TC916x_TNR_DT	O	Selector/Tuner/DVD 6CH - DT
49	S/C_SP	O	Surround/Center speaker
50	SP_B	O	Speaker B control
51	SP_A	O	Speaker A control
52	RELAY	O	Power Relay Control
53	AF_MUTE	O	AF Muting
54	SUBW_MUTE	O	AF Muting for Subwoofer
55	WAKE_LED	O	Wake up timer LED
56	A/D_ATT	O	A/D Input Attenuator
57~59	NOT USED	-	NOT USED
60~78	SEG19~SEG1	O	FL Display Segment Output
79~88	DIG1~DIG10	O	FL Display Digit Output
89	VEE	-	Power Supply for FL Driver
90	CS493xx_SCDOUT	O	CS493xx Serial Data In
91	CS493xx_CDIN	O	CS493xx / AK4586 / AK4382 Serial Data Out
92	CS493xx_CCLK	O	CS493xx / AK4586 / AK4382 Serial Clock
93	CS493xx_CS	O	CS493xx Chip Select
94	AK4586_RESET	O	AK4586 Reset
95	CS493xx_RESET	O	CS494xx Reset

96	INIT_IN	I	Initialize Diode Input
97	AVSS	-	Ground
98	VREF	-	Reference Voltage
99	VIDEO_B	O	Video Selector Control - B
100	VIDEO_A	O	Video Selector Control - A

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11 Block Diagram

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12 Schematic Diagram

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(All schematic diagrams may be modified at any time with the development of new technology.)

Notes:

S301	Slide Switch
S950	Power Switch
S951	Speaker A Switch
S954	Timer Swtich
S955	Memory Switch
S956	FM Mode Switch
S957	Band Switch
S958	Preset Switch
S959	Tuning Up Switch
S960	Tuning Down Switch
S961	Speaker B Switch
S962	Reset Help Switch
S963	Display Sound MD Switch
S965	Digital Switch
S966	DVD 6Ch Switch
S967	+ /Right Switch
S968	- /Left Switch
S969	Tone/Balance Switch
S970	Tape Monitor Switch
S971	Sub. Woofer Level Switch
VR901	Vr Rotary Encoder
VR902	Vr Volume Encoder
VR903	Vr Rotary Encoder

- The voltage value and waveforms are the reference voltage of this unit measured by DC electronic voltmeter (high impedance) and oscilloscope on the basis of chassis. Accordingly, there may arise some error in voltage values and waveforms depending upon the internal impedance of the tester or the measuring unit.

- [Importance safety notice:](#)

Components identified by ⚠ mark have special characteristics important for safety. Furthermore, special parts which have purposes of fire-retardant (resistors), high-quality sound (capacitors), low-noise (resistors), etc. are used. When replacing any of components, be sure to use only manufacturer's specified parts shown in the parts list.

Caution!

IC, LSI and VLSI are sensitive to static electricity.

Secondary trouble can be prevented by taking care during repair.

- Cover the parts boxes made of plastics with aluminium foil.
- Put a conductive mat on the work table.
- Ground the soldering iron.
- Do not touch the pins of IC, LSI or VLSI with fingers directly.



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13 Printed Circuit Board

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14 Wiring Connection Diagram

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15 Parts Location and Replacement Parts List

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Notes:

- Important safety notice:

Components identified by  mark have special characteristics important for safety.

Furthermore, special parts which have purposes of fire-retardant (resistors), high-quality sound (capacitors), low-noise (resistors), etc. are used.

When replacing any of these components, be sure to use only manufacturers’s specified parts shown in the parts list.

- The parenthesized indications in the Remarks column specify the areas or color. (Refer to the cover page for area or color.)

Parts without these indications can be used for all areas.

- Capacitor values are in microfarad (μ F) unless specified otherwise, P=Pico-farads(pF); Farads.
- Resistance values are in ohms, unless specified otherwise, 1K=1,000(ohms).
- The marking (RTL) indicates that the Retention Time is limited for this item. After the discontinuation of this assembly in production, the item will continue to be available for a specific period of time. The retention period of availability is dependant on the type of assembly, and in accordance with the laws governing part and product retention. After the end of this period, the assembly will no longer be available.
- [M] indicates in the Remarks columns indicates parts that are supplied by [MESA](#) .
- The “(SF)” mark denotes the standard part.
- Reference for O/I book languages are as follows :

Ar : Arabic	Cf : Canadian French	Cz : Czech	Da : Danish
Du : Dutch	En : English	Fr : French	Ge : German
It : Italian	Ko : Korean	Po : Polish	Ru : Russian

[15.1 Cabinet](#)

[15.1.1 Cabinet Parts Location](#)

[15.1.2 Cabinet Parts List](#)

[15.2 Components Parts List](#)

[15.3 Packing Materials& Accessories Parts List](#)

[15.4 Packaging](#)

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15.1 Cabinet

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[15.1.1 Cabinet Parts Location](#)

[15.1.2 Cabinet Parts List](#)

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15.1.1 Cabinet Parts Location

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15.1.2 Cabinet Parts List

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Ref. No.	Part No.	Part Name & Description	Remarks
		CABINET AND CHASSIS	
1	REEV0014	18P FFC WIRE	[M]
2	REEV0015-1	25P FFC	[M]
3	REM0080B	FAN UNIT	[M]
4	RGB0036-2N	PANASONIC BADGE	[M]
5	RGK1339A-N	HALF MIRROR	[M]
6	RGKV0001-1S	VOLUME RING	[M]
7	RGL0533-Q	DIGITAL LIGHT GUIDE	[M]
8	RGL0535-Q	MOS LIGHT GUIDE	[M]
9	RGL0536-Q	SEL LIGHT GUIDE	[M]
10	RGP0866F-K	FRONT PANEL	[M]
11	RGQ0330-K	FAN COVER	[M]
12	RGRV0002B-A	REAR PANEL	[M]EG E
12	RGRV0002B-B	REAR PANEL	[M]EB
13	RGU1390-K	VCR2 BUTTON	[M]
14	RGU1941F-K	MODE BUTTON	[M]
15	RGU1942-2K	TONE BUTTON	[M]
16	RGU1945-2K	DIGITAL BUTTON	[M]
17	RGU1946-2K	POWER BUTTON	[M]
18	RGU1947-Q	6CH BUTTON	[M]
19	RGW0280-1K	SELECTOR KNOB	[M]
20	RGW0359-1K	VOLUME KNOB	[M]
21	RHD26016	SCREW (PHONE JACK)	[M]
22	RHD30070	EARTH TERMINAL	[M]
23	RHN90001	M9 NUT	[M]
24	RKA0079A-A	LEG UNIT	[M]
25	RKM0373C-1K	TOP CABINET	[M]

<u>26</u>	RKQ0089A	PCB SUPPORT	[M]
<u>27</u>	RKWV0001A-Q	FL WINDOW	[M]
<u>28</u>	RMC0158-S	TRANSISTOR HOLDER	[M]
<u>29</u>	RMK0320-1	BOTTOM CHASSIS	[M]
<u>30</u>	RMN0628A	FL HOLDER	[M]
<u>31</u>	RMN0630	LED HOLDER	[M]
<u>32</u>	RMN0649	WIRE CLAMPER	[M]
<u>33</u>	RMN0688	DIGITAL PCB SUPPORT	[M]
<u>34</u>	RMQ1030	HEAT SINK ANGLE	[M]
<u>35</u>	RMR1165-K	SPEAKER COVER	[M]
<u>36</u>	RMZ0339	ZNR COVER	[M]
<u>37</u>	RXX0233	HEAT SINK UNIT	[M]
<u>38</u>	SHR301	WIRE CRAMPER	[M]
<u>39</u>	SHR8006	PCB SPACER	[M]
<u>40</u>	SNE2129-3	SCREW (CABINET)	[M]
<u>41</u>	XTB3+20JFZ	SCREW	[M]
<u>42</u>	XTB3+35JFZ	SCREW (FAN)	[M]
<u>43</u>	XTB3+6G	SCREW	[M]
<u>44</u>	XTB3+8FFZ	SCREW	[M]
<u>45</u>	XTB3+8JFZ	SCREW	[M]
<u>46</u>	XTBS26+10J	SCREW	[M]
<u>47</u>	XTBS3+8JFZ1	SCREW	[M]
<u>48</u>	XTN26+8GFZ	SCREW (FIX COBRA COV	[M]
<u>49</u>	XTW3+15T	SCREW	[M]
<u>50</u>	XTW3+8PFZ	SCREW	[M]
<u>51</u>	XTWS3+8T	SCREW	[M]

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15.2 Components Parts List

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Ref. No.	Part No.	Part Name & Description	Remarks
		PRINTED CIRCUIT BOARD	
	REP3261B-T	DIGITAL P.C.B.(SIDE: A)	[M](RTL)
	REP3261B-T	DIGITAL P.C.B.(SIDE: B)	[M](RTL)
	REP3259C-M	MAIN P.C.B.	[M](RTL)E EG
	REP3259D-M	MAIN P.C.B.	[M](RTL)EB
	REP3259C-M	FRONT SPEAKER P.C.B.	[M](RTL)E EG
	REP3259D-M	FRONT SPEAKER P.C.B.	[M](RTL) EB
	REP3260B-S	PANEL P.C.B.	[M](RTL)
	REP3260B-S	HEADPHONE P.C.B.	[M](RTL)
	REP3260B-S	SWITCH P.C.B.	[M](RTL)
	REP3259C-M	PHONO EQ P.C.B.	[M](RTL)E EG
	REP3259D-M	PHONO EQ P.C.B.	[M](RTL)EB
	REP3260B-S	S-VIDEO P.C.B.	[M](RTL)
	REP3259C-M	TRANSFORMER P.C.B.	[M](RTL)E EG
	REP3259D-M	TRANSFORMER P.C.B.	[M](RTL)EB
	REP3259C-M	SUB-TRANSFORMER P.C.B.	[M](RTL) E EG
	REP3259D-M	SUB-TRANSFORMER P.C.B.	[M](RTL)EB
	REP3260B-S	VCR P.C.B.	[M](RTL)
	REP3262B-T	VIDEO P.C.B.	[M](RTL)
		INTERGRATED CIRCUITS	
IC301	C1AA00000123	IC VIDEO SELECTOR SW	[M]
IC302	C1AA00000123	IC VIDEO SELECTOR SW	[M]
IC364	C1AA00000123	IC VIDEO SELECTOR SW	[M]
IC401	TC9163AN	IC SELECTOR	[M]
IC402	C0AABB000086	IC OP AMP	[M]
IC451	AN6558F	IC OP AMP	[M]
IC601	RSN310R37A-P	IC 3 CH HIC	[M]⚠
IC651	RSN310R36A-P	IC 3 CH HIC	[M]⚠

IC901	C2BBGF000316	IC MICOM	[M]
IC902	C1BB00000542	IC IO EXPANDER	[M]
IC970	LC72720N	IC RDS	[M]
IC1001	C2HBZZ000010	IC DSP	[M]
IC1002	C1BB00000684	IC DIR/DAC/VOL	[M]
IC1003	SN74LV244APW	IC LOGIC	[M]
IC1004	SN7AHCT244PW	IC LOGIC	[M]
IC1005	C0FBBK000029	IC DAC	[M]
IC1006	SN74HCU04APW	IC LOGIC	[M]
IC1007	SNAHC1U04DBV	IC SINGLE INVERTER	[M]
IC1008	SN7AHCT574PW	IC LOGIC	[M]
IC1009	SN7AHCT574PW	IC LOGIC	[M]
IC1010	SN74LV244APW	IC LOGIC	[M]
IC1011	C3FBJC000040	IC FLASH ROM	[M]
IC1201	NJM2060MTE1	IC OP AMP	[M]
IC1203	C0ABBB000127	IC OP AMP	[M]
IC1212	C1BB00000490	IC VOLUME	[M]
IC1230	NJM2060MTE1	IC OP AMP	[M]
IC1231	C0ABBB000127	IC OP AMP	[M]
IC1301	NJM2060MTE1	IC OP AMP	[M]
IC1302	NJM2060MTE1	IC OP AMP	[M]
IC1360	C0ABBB000127	IC OP AMP	[M]
IC1361	C0ABBB000127	IC OP AMP	[M]
IC1401	C0JBAS000175	IC SELECTOR	[M]
IC1402	TC9482F	IC VOLUME	[M]
IC1451	C0ABBB000127	IC OP AMP	[M]
IC1452	NJM2060MTE1	IC OP AMP	[M]
IC1522	C0ABBB000102	IC OP AMP	[M]
IC1701	BA25BC0FP	IC REGULATOR	[M] ⚠
		TRANSISTORS	
Q361	KTD863	TRANSISTOR	[M]
Q362	2SB0621ARA	TRANSISTOR	[M]
Q401	2SK2880CTA	TRANSISTOR	[M]
Q402	2SK2880CTA	TRANSISTOR	[M]
Q551	2SD1915FTA	TRANSISTOR	[M]

Q552	2SD1915FTA	TRANSISTOR	[M]
Q553	2SD1915FTA	TRANSISTOR	[M]
Q554	2SD1915FTA	TRANSISTOR	[M]
Q555	2SD1915FTA	TRANSISTOR	[M]
Q556	2SD1915FTA	TRANSISTOR	[M]
Q601	KRA119MTA	TRANSISTOR	[M]
Q602	KRA119MTA	TRANSISTOR	[M]
Q603	KRA119MTA	TRANSISTOR	[M]
Q604	KRA102MTA	TRANSISTOR	[M]
Q605	KRA102MTA	TRANSISTOR	[M]
Q651	KRA119MTA	TRANSISTOR	[M]
Q652	KRA119MTA	TRANSISTOR	[M]
Q701	2SD2374PQAU	TRANSISTOR	[M] 
Q703	KTC3199GRTA	TRANSISTOR	[M] 
Q704	KTC3199GRTA	TRANSISTOR	[M] 
Q706	KTD863	TRANSISTOR	[M] 
Q707	2SA1534ALA	TRANSISTOR	[M] 
Q708	2SB1548PQAU	TRANSISTOR	[M] 
Q723	KRA102MTA	TRANSISTOR	[M] 
Q724	KRC102MTA	TRANSISTOR	[M] 
Q725	KRC107MTA	TRANSISTOR	[M] 
Q751	RVTDTC143ZST	TRANSISTOR	[M]
Q752	KTD863	TRANSISTOR	[M]
Q753	2SK2880CTA	TRANSISTOR	[M] 
Q754	KRC102MTA	TRANSISTOR	[M] 
Q771	KTA1267GRTA	TRANSISTOR	[M]
Q772	KTC3199GRTA	TRANSISTOR	[M]
Q773	2SB621AQSTA	TRANSISTOR	[M]
Q774	RVTDTA113ZST	TRANSISTOR	[M]
Q775	KRA102MTA	TRANSISTOR	[M]
Q776	KTC3199GRTA	TRANSISTOR	[M]
Q777	KTA1267GRTA	TRANSISTOR	[M]
Q778	KTA1267GRTA	TRANSISTOR	[M]
Q779	KTA1267GRTA	TRANSISTOR	[M]
Q780	KTA1267GRTA	TRANSISTOR	[M]
Q781	KTC3199GRTA	TRANSISTOR	[M]

Q901	KRC107MTA	TRANSISTOR	[M]
Q902	KTA1267GRTA	TRANSISTOR	[M]
Q1001	B1GDCFJN0001	TRANSISTOR	[M]
Q1501	2SD1915FTA	TRANSISTOR	[M]
Q1502	2SD1915FTA	TRANSISTOR	[M]
Q1601	2SD1915FTA	TRANSISTOR	[M]
Q1602	RVTDTA114EST	TRANSISTOR	[M]
Q1603	2SD1915FTA	TRANSISTOR	[M]
Q1681	2SD1915FTA	TRANSISTOR	[M]
Q1682	2SD1915FTA	TRANSISTOR	[M]
Q1701	KTC2026	TRANSISTOR	[M] ⚠
Q1702	2SD2374PQAU	TRANSISTOR	[M] ⚠
Q1703	KTC3199GRTA	TRANSISTOR	[M] ⚠
		DIODES	
D301	B0AACK000004	DIODE	[M]
D302	B0AACK000004	DIODE	[M]
D362	B0BA5R600016	DIODE	[M]
D363	B0BA5R600016	DIODE	[M]
D364	B0AACK000004	DIODE	[M]
D365	B0AACK000004	DIODE	[M]
D401	B0BA7R500006	DIODE	[M]
D403	B0AACK000004	DIODE	[M]
D404	B0AACK000004	DIODE	[M]
D601	B0JAPG000008	DIODE	[M]
D602	B0JAPG000008	DIODE	[M]
D605	B0AACK000004	DIODE	[M]
D611	B0AACK000004	DIODE	[M]
D612	B0AACK000004	DIODE	[M]
D613	B0AACK000004	DIODE	[M]
D614	B0AACK000004	DIODE	[M]
D617	B0AACK000004	DIODE	[M]
D618	B0BA8R200005	DIODE	[M]
D651	B0JAPG000008	DIODE	[M]
D652	B0JAPG000008	DIODE	[M]
D667	B0AACK000004	DIODE	[M]

D668	B0BA8R200005	DIODE	[M]
D701	1N5402BM21	DIODE	[M] 
D702	1N5402BM21	DIODE	[M] 
D703	1N5402BM21	DIODE	[M] 
D704	1N5402BM21	DIODE	[M] 
D705	B0BA6R100003	DIODE	[M]
D707	B0BA03200003	DIODE	[M]
D708	MTZJ16CTA	DIODE	[M]
D721	1N5402BM21	DIODE	[M] 
D722	1N5402BM21	DIODE	[M] 
D723	1N5402BM21	DIODE	[M] 
D724	1N5402BM21	DIODE	[M] 
D725	1N5402BM21	DIODE	[M] 
D726	1N5402BM21	DIODE	[M] 
D727	1N5402BM21	DIODE	[M] 
D728	1N5402BM21	DIODE	[M] 
D731	B0AACK000004	DIODE	[M]
D732	B0AACK000004	DIODE	[M]
D733	B0AACK000004	DIODE	[M]
D734	B0AACK000004	DIODE	[M]
D741	1SR35400V	DIODE	[M] 
D742	1SR35400V	DIODE	[M] 
D743	1SR35400V	DIODE	[M] 
D744	1SR35400V	DIODE	[M] 
D751	1SR35400V	DIODE	[M] 
D752	1SR35400V	DIODE	[M] 
D753	1SR35400V	DIODE	[M] 
D754	1SR35400V	DIODE	[M] 
D755	B0AACK000004	DIODE	[M]
D756	B0BA6R600008	DIODE	[M]
D757	MTZJ16CTA	DIODE	[M]
D768	B0BA3R300010	DIODE	[M]
D769	B0AACK000004	DIODE	[M]
D770	B0AACK000004	DIODE	[M]
D771	RB721Q40T77	DIODE	[M] 

D772	RB721Q40T77	DIODE	[M] 
D773	B0BA8R200005	DIODE	[M]
D774	RB721Q40T77	DIODE	[M]
D781	RB721Q40T77	DIODE	[M] 
D782	RB721Q40T77	DIODE	[M] 
D901	1SS291TA	DIODE	[M]
D902	B0AACK000004	DIODE	[M]
D903	B0BA5R600016	DIODE	[M]
D904	B0BA4R000003	DIODE	[M]
D905	MA2C167A0E	DIODE	[M]
D907	MA2C167A0E	DIODE	[M]
D911	B0AACK000004	DIODE	[M]
D913	B0AACK000004	DIODE	[M]
D914	1SS291TA	DIODE	[M]
D929	SLR56YY3FN	DIODE	[M]
D930	SLR56VR3FN	DIODE	[M]
D931	B3AAA0000487	DIODE	[M]
D932	B3AAA0000487	DIODE	[M]
D933	B3AAA0000487	DIODE	[M]
D934	B3AAA0000487	DIODE	[M]
D935	B3AAA0000487	DIODE	[M]
D936	B3AAA0000487	DIODE	[M]
D937	B3AAA0000487	DIODE	[M]
D938	SLR325MCT31	DIODE	[M]
D939	SLR325MCT31	DIODE	[M]
D944	SLR325MCT31	DIODE	[M]
D970	B0AACK000004	DIODE	[M]
D1601	B0ACCK000005	DIODE	[M]
D1602	B0ACCK000005	DIODE	[M]
D1701	UDZSTE176R2B	DIODE	[M]
		VARIABLE RESISTORS	
VR901	K9AA012A0002	VR ROTARY ENCODER	[M]
VR902	RRV16B24304A	VR VOLUME ENCODER	[M]
VR903	K9AA012A0002	VR ROTARY ENCODER	[M]

		SWITCHES	
S301	RSP2D018-A	SW SLIDE	[M]
S950	EVQ21405RJ	SW POWER	[M]
S951	EVQ21405RJ	SW SPEAKER A	[M]
S954	EVQ21405RJ	SW TIMER	[M]
S955	EVQ21405RJ	SW MEMORY	[M]
S956	EVQ21405RJ	SW FM MODE	[M]
S957	EVQ21405RJ	SW BAND	[M]
S958	EVQ21405RJ	SW PRESET	[M]
S959	EVQ21405RJ	SW TUNING UP	[M]
S960	EVQ21405RJ	SW TUNING DOWN	[M]
S961	EVQ21405RJ	SW SPEAKER B	[M]
S962	EVQ21405RJ	SW RESET HELP	[M]
S963	EVQ21405RJ	SW DISPLAY SOUND MD	[M]
S965	EVQ21405RJ	SW DIGITAL	[M]
S966	EVQ21405RJ	SW DVD 6CH	[M]
S967	EVQ21405RJ	SW +/-RIGHT	[M]
S968	EVQ21405RJ	SW +/-LEFT	[M]
S969	EVQ21405RJ	SW TONE/BALANCE	[M]
S970	EVQ21405RJ	SW TAPE MONITOR	[M]
S971	EVQ21405RJ	SW SUB.WOOFER LEVEL	[M]
		CONNECTORS	
CN352	K1MP03A00010	3P TAPING CONNECTOR	[M]
CN353	K1KA03A00006	3P CONNECTOR	[M]
CN354	RJS6T6ZA	CONNECTOR	[M]
CN356	K1MP07A00006	7P TAPING CONNECTOR	[M]
CN401	K1MP07A00006	7P TAPING CONNECTOR	[M]
CN402	K1MP06A00009	6P TAPING CONNECTOR	[M]
CN602	K1MP04A00008	4P TAPING CONNECTOR	[M]
CN702	K1MP03A00010	3P TAPING CONNECTOR	[M]
CN751	K1ML03B00002	3P CONNECTOR	[M]
CN901	K1KB08A00046	BOAD IN CONNECTOR	[M]
CN902	K1KB08A00046	BOAD IN CONNECTOR	[M]
CN903	K1KB10A00065	10P B/B CONNECTOR	[M]

CN904A	K1MN25A00012	25P FFC CONNECTOR	[M]
CN904B	K1MN25A00012	25P FFC CONNECTOR	[M]
CN907	RJU100W04	4P CONNECTOR	[M]
CN1000A	K1MN18A00038	18P FFC CONNECTOR	[M]
CN1000B	K1MN18A00038	18P FFC CONNECTOR	[M]
CP101	K1KA11A00093	11P CONNECTOR	[M]
CP403	RJP6G4YA	CONNECTOR	[M]
CP771	K1KA02A00008	FAN CONNECTOR	[M]
CP901	RJT003K008M1	8P CONNECTOR	[M]
CP902	RJT003K008M1	8P CONNECTOR	[M]
CP903	RJT003K010M1	10P CONNECTOR	[M]
CP907	RJT100W04	4P CONNECTOR	[M]
		COILS & TRANSFORMERS	
L602	RLQYR73MW-E	CHOKE COIL	[M]
L603	RLQYR73MW-E	CHOKE COIL	[M]
L604	RLQYR73MW-E	CHOKE COIL	[M]
L651	RLQYR73MW-E	CHOKE COIL	[M]
L652	RLQYR73MW-E	CHOKE COIL	[M]
L653	RLQYR73MW-E	CHOKE COIL	[M]
L701	RLQT801M-W	CHOKE COIL	[M] ⚠
L751	G0C101KA0030	CHOKE COIL	[M]
L901	G0C101KA0030	CHOKE COIL	[M]
L970	G0C101KA0029	AXIAL COIL	[M]
L971	G0C101KA0029	AXIAL COIL	[M]
L1001	G1C2R2K00008	CHIP INDUCTOR	[M]
L1002	G1C2R2K00008	CHIP INDUCTOR	[M]
L1003	G1C2R2K00008	CHIP INDUCTOR	[M]
L1004	G1C2R2K00008	CHIP INDUCTOR	[M]
L1301	RLQZ150M-0	CHOKE COIL	[M]
L1303	VLQ0855M1R0T	CHIP INDUCTOR	[M]
T701	G4C9AGH00002	POWER TRANSFORMER	[M] ⚠
T751	RTP1H5B001	STANDBY TRANSFORMER	[M] ⚠

		COMPONENT COMBINATION	
Z101	RAN0002EM	TUNER MODULE	[M]
Z751	ERZV10V511CS	ZENER	[M] 
Z901	B3RAB0000013	REMOTE SENSOR	[M]
Z1304	J0JKB0000020	EMI BEAD CORE	[M]
		CERAMIC FILTERS	
CF901	H2B400400008	CERAMIC OSCILLATOR	[M]
		RELAY	
RL601	K6B2AHA00014	RELAY	[M] 
RL602	K6B2AHA00014	RELAY	[M] 
RL603	K6B2AHA00014	RELAY	[M] 
RL604	K6B2AHA00014	RELAY	[M] 
RL751	RSY0040M-0	POWER RELAY	[M] 
		OSCILLATORS	
X970	H0H433400001	CRYSTAL OSCILLATOR	[M]
X1001	H0J122200001	CRYSTAL OSCILLATOR	[M]
		DISPLAY TUBE	
FL901	A2BB00000100	FL DISPLAY	[M]
		FUSES	
F1	XBA2C25TB0	FUSE	[M] 
F3	XBA2C63TB0	FUSE	[M] 
F4	XBA2C63TB0	FUSE	[M] 
F5	XBA2C10TB0	FUSE	[M] 
		FUSE HOLDERS	

FC701	EYF52BC	FUSE HOLDER	[M]
FC702	EYF52BC	FUSE HOLDER	[M]
FC705	EYF52BC	FUSE HOLDER	[M]
FC706	EYF52BC	FUSE HOLDER	[M]
FC707	EYF52BC	FUSE HOLDER	[M]
FC708	EYF52BC	FUSE HOLDER	[M]
FC709	EYF52BC	FUSE HOLDER	[M]
FC710	EYF52BC	FUSE HOLDER	[M]
FC711	EYF52BC	FUSE HOLDER	[M]
FC712	EYF52BC	FUSE HOLDER	[M]
		JACK	
HP601	K2HB103J0063	HEADPHONES	[M]
		JACKS	
JK301	VJJ0544	JK VIDEO TERMINA	[M]
JK302	RJS1D1304	JK SPEAKER TERMINAL	[M]
JK352	SJFK5-2	JK VCR IN	[M]
JK362	K4BK02H00003	JK 2 PIN RCA	[M]
JK363	K4BK03H00002	JK 3 PIN RCA	[M]
JK401	K4BK02H00001	JK 2 PIN RCA	[M]
JK402	K4BK04H00001	JK 4 PIN RCA	[M]
JK403	K4BK04H00001	JK 4 PIN RCA	[M]
JK404	K4BK04H00001	JK 4 PIN RCA	[M]
JK405	K4BK02H00002	JK 2 PIN RCA	[M]
JK406	K2HA101B0003	JK 1 PIN RCA	[M]
JK602	K4BB04B00001	JK SPEAKER	[M]
JK603	RJH5601-J	JK SPEAKER TERMINAL	[M]
JK604	RJH5603-8	JK SPEAKER TERMINAL	[M]
JK794	SJS9236-1	JK AC INLET	[M] ⚠
JK1301	K7ABBC000001	JK OPTICAL INPUT	[M]
JK1302	K7ABBC000001	JK OPTICAL INPUT	[M]
JK1303	K7ABBC000001	JK OPTICAL INPUT	[M]
JK1304	K4BK01H00003	JK COAX INPUT	[M]
JK1305	K7AABB000001	JK OPT TRANSMITTER	[M]

JK1341	K4BK04H00003	JK 4P RCA	[M]
		EARTH TERMINAL	
E601	SNE1004-2	EARTH TERMINAL	[M]
		WIRES	
W351	REX1070	SHIELD WIRE (6P)	[M]
W352	RWJ1803120SX	WIRE	[M]
W353	REX1069	SHIELD WIRE (3P)	[M]
W354	RWJ1806120SX	WIRE	[M]
W355	REZ1372	EARTH WIRE	[M]
W356	RWJ1807140SX	WIRE	[M]
W402	RWJ1813120SX	WIRE	[M]
W600	RWJ1806260SS	WIRE	[M]
W601	REE1104	WIRE	[M]
W602	RWJ1804200SX	WIRE	[M]
W701	RWJ1812520SS	WIRE	[M]
W702	RWJ1803280SX	WIRE	[M]
W752	RWJ1803150SS	WIRE	[M]
W906	RWJ1803150SS	WIRE	[M]
W908	REZ1372	EARTH WIRE	[M]
		RESISTORS	
R301	ERDS2TJ750T	75 1/4W	[M]
R302	ERDS2TJ105T	1M 1/4W	[M]
R303	ERDS2TJ103T	10K 1/4W	[M]
R304	ERDS2TJ750T	75 1/4W	[M]
R305	ERDS2TJ750T	75 1/4W	[M]
R306	ERDS2TJ105T	1M 1/4W	[M]
R307	ERDS2TJ103T	10K 1/4W	[M]
R308	ERDS2TJ750T	75 1/4W	[M]
R309	ERDS2TJ750T	75 1/4W	[M]
R310	ERDS2TJ750T	75 1/4W	[M]
R311	ERDS2TJ750T	75 1/4W	[M]

R312	ERDS2TJ105T	1M 1/4W	[M]
R313	ERDS2TJ103T	10K 1/4W	[M]
R314	ERDS2TJ750T	75 1/4W	[M]
R315	ERDS2TJ750T	75 1/4W	[M]
R316	ERDS2TJ750T	75 1/4W	[M]
R317	ERDS2TJ102T	1K 1/4W	[M]
R318	ERDS2TJ102T	1K 1/4W	[M]
R351	ERDS2TJ750T	75 1/4W	[M]
R370	ERDS2TJ750T	75 1/4W	[M]
R371	ERDS2TJ750T	75 1/4W	[M]
R372	ERDS2TJ750T	75 1/4W	[M]
R373	ERDS2TJ103T	10K 1/4W	[M]
R374	ERDS2TJ103T	10K 1/4W	[M]
R375	ERDS2TJ103T	10K 1/4W	[M]
R376	ERDS2TJ750T	75 1/4W	[M]
R377	ERDS2TJ750T	75 1/4W	[M]
R385	ERDS2TJ102T	1K 1/4W	[M]
R386	ERDS2TJ103T	10K 1/4W	[M]
R387	ERD25FVJ220T	22 1/4W	[M]
R388	ERDS2TJ182T	1.8K 1/4W	[M]
R389	ERDS2TJ182T	1.8K 1/4W	[M]
R390	ERD25FVJ220T	22 1/4W	[M]
R391	ERDS2TJ102T	1K 1/4W	[M]
R392	ERDS2TJ102T	1K 1/4W	[M]
R393	ERDS2TJ750T	75 1/4W	[M]
R401	ERDS2TJ102T	1K 1/4W	[M]
R402	ERDS2TJ102T	1K 1/4W	[M]
R403	ERDS2TJ102T	1K 1/4W	[M]
R404	ERDS2TJ102T	1K 1/4W	[M]
R405	ERDS2TJ102T	1K 1/4W	[M]
R406	ERDS2TJ102T	1K 1/4W	[M]
R407	ERDS2TJ102T	1K 1/4W	[M]
R408	ERDS2TJ102T	1K 1/4W	[M]
R409	ERDS2TJ102T	1K 1/4W	[M]
R410	ERDS2TJ102T	1K 1/4W	[M]
R411	ERDS2TJ102T	1K 1/4W	[M]
R412	ERDS2TJ102T	1K 1/4W	[M]

R413	ERDS2TJ102T	1K 1/4W	[M]
R414	ERDS2TJ102T	1K 1/4W	[M]
R415	ERDS2TJ102T	1K 1/4W	[M]
R416	ERDS2TJ102T	1K 1/4W	[M]
R417	ERDS2TJ473T	47K 1/4W	[M]
R418	ERDS2TJ473T	47K 1/4W	[M]
R419	ERDS2TJ104T	100K 1/4W	[M]
R420	ERDS2TJ104T	100K 1/4W	[M]
R421	ERDS2TJ102T	1K 1/4W	[M]
R421	ERDS2TJ104T	100K 1/4W	[M]
R422	ERDS2TJ102T	1K 1/4W	[M]
R422	ERDS2TJ104T	100K 1/4W	[M]
R423	ERDS2TJ102T	1K 1/4W	[M]
R423	ERDS2TJ224T	220K 1/4W	[M]
R424	ERDS2TJ102T	1K 1/4W	[M]
R424	ERDS2TJ224T	220K 1/4W	[M]
R425	ERDS2TJ103T	10K 1/4W	[M]
R426	ERDS2TJ103T	10K 1/4W	[M]
R427	ERDS2TJ103T	10K 1/4W	[M]
R435	ERDS2TJ473T	47K 1/4W	[M]
R436	ERDS2TJ102T	1K 1/4W	[M]
R449	ERDS1FVJ560T	56 1/2W	[M] 
R450	ERDS1FVJ560T	56 1/2W	[M] 
R451	ERDS2TJ224T	220K 1/4W	[M]
R452	ERDS2TJ224T	220K 1/4W	[M]
R453	ERDS2TJ821T	820 1/4W	[M]
R454	ERDS2TJ821T	820 1/4W	[M]
R455	ERDS2TJ563T	56K 1/4W	[M]
R456	ERDS2TJ563T	56K 1/4W	[M]
R457	ERDS2TJ271T	270 1/4W	[M]
R458	ERDS2TJ271T	270 1/4W	[M]
R459	ERDS2TJ680T	68 1/4W	[M]
R460	ERDS2TJ680T	68 1/4W	[M]
R461	ERDS2TJ184T	180K 1/4W	[M]
R462	ERDS2TJ184T	180K 1/4W	[M]
R463	ERDS2TJ123T	12K 1/4W	[M]
R464	ERDS2TJ123T	12K 1/4W	[M]

R465	ERDS2TJ563T	56K 1/4W	[M]
R466	ERDS2TJ563T	56K 1/4W	[M]
R467	ERDS2TJ473T	47K 1/4W	[M]
R468	ERDS2TJ473T	47K 1/4W	[M]
R469	ERDS2TJ102T	1K 1/4W	[M]
R470	ERDS2TJ102T	1K 1/4W	[M]
R485	ERDS2TJ104T	100K 1/4W	[M]
R486	ERDS2TJ102T	1K 1/4W	[M]
R534	ERDS2TJ223T	22K 1/4W	[M]
R545	ERDS2TJ684T	680K 1/4W	[M]
R550	ERDS2TJ822T	8.2K 1/4W	[M]
R551	ERDS2TJ102T	1K 1/4W	[M]
R552	ERDS2TJ102T	1K 1/4W	[M]
R553	ERDS2TJ102T	1K 1/4W	[M]
R554	ERDS2TJ102T	1K 1/4W	[M]
R555	ERDS2TJ102T	1K 1/4W	[M]
R556	ERDS2TJ102T	1K 1/4W	[M]
R581	ERDS2TJ473T	47K 1/4W	[M]
R582	ERDS2TJ473T	47K 1/4W	[M]
R583	ERDS2TJ473T	47K 1/4W	[M]
R584	ERDS2TJ473T	47K 1/4W	[M]
R585	ERDS2TJ473T	47K 1/4W	[M]
R586	ERDS2TJ473T	47K 1/4W	[M]
R591	ERDS2TJ272T	2.7K 1/4W	[M]
R592	ERDS2TJ272T	2.7K 1/4W	[M]
R593	ERDS2TJ272T	2.7K 1/4W	[M]
R594	ERDS2TJ272T	2.7K 1/4W	[M]
R595	ERDS2TJ272T	2.7K 1/4W	[M]
R596	ERDS2TJ272T	2.7K 1/4W	[M]
R603	ERDS2TJ182T	1.8K 1/4W	[M]
R604	ERDS2TJ182T	1.8K 1/4W	[M]
R605	ERDS2TJ221T	220 1/4W	[M]
R606	ERDS2TJ221T	220 1/4W	[M]
R607	ERDS2TJ563T	56K 1/4W	[M]
R608	ERDS2TJ563T	56K 1/4W	[M]
R609	ERDS2TJ470T	47 1/4W	[M]
R610	ERDS2TJ470T	47 1/4W	[M]

R611	ERDS1FVJ100T	10 1/2W	[M] 
R612	ERDS1FVJ100T	10 1/2W	[M] 
R613	ERDS2TJ152T	1.5K 1/4W	[M]
R614	ERDS2TJ152T	1.5K 1/4W	[M]
R615	ERDS2TJ681T	680 1/4W	[M]
R616	ERD25FVJ820T	82 1/4W	[M]
R617	ERD25FVJ820T	82 1/4W	[M]
R618	ERD25FVJ820T	82 1/4W	[M]
R619	ERD25FVJ820T	82 1/4W	[M]
R621	ERDS2TJ682T	6.8K 1/4W	[M]
R622	ERDS2TJ682T	6.8K 1/4W	[M]
R623	ERDS2TJ682T	6.8K 1/4W	[M]
R624	ERD25FVJ4R7T	4.7 1/4W	[M]
R625	ERG1SJ101E	100 1W	[M]
R626	ERG1SJ101E	100 1W	[M]
R627	ERG1SJ101E	100 1W	[M]
R628	ERG1SJ101E	100 1W	[M]
R629	ERDS2TJ102T	1K 1/4W	[M]
R630	ERDS2TJ124T	120K 1/4W	[M]
R631	ERDS2TJ154T	150K 1/4W	[M]
R632	ERDS2TJ184T	180K 1/4W	[M]
R633	ERDS2TJ473T	47K 1/4W	[M]
R634	ERDS2TJ274T	270K 1/4W	[M]
R635	ERDS2TJ154T	150K 1/4W	[M]
R637	ERDS2TJ154T	150K 1/4W	[M]
R638	ERDS2TJ154T	150K 1/4W	[M]
R639	ERDS2TJ104T	100K 1/4W	[M]
R640	ERDS2TJ681T	680 1/4W	[M]
R641	ERDS2TJ104T	100K 1/4W	[M]
R642	ERDS2TJ182T	1.8K 1/4W	[M]
R643	ERDS2TJ563T	56K 1/4W	[M]
R644	ERDS1FVJ100T	10 1/2W	[M] 
R645	ERDS2TJ470T	47 1/4W	[M]
R647	ERDS2TJ221T	220 1/4W	[M]
R653	ERDS2TJ182T	1.8K 1/4W	[M]
R654	ERDS2TJ182T	1.8K 1/4W	[M]

R655	ERDS2TJ221T	220 1/4W	[M]
R656	ERDS2TJ221T	220 1/4W	[M]
R657	ERDS2TJ563T	56K 1/4W	[M]
R658	ERDS2TJ563T	56K 1/4W	[M]
R661	ERDS1FVJ100T	10 1/2W	[M] 
R662	ERDS1FVJ100T	10 1/2W	[M] 
R663	ERDS2TJ470T	47 1/4W	[M]
R664	ERDS2TJ470T	47 1/4W	[M]
R674	ERD25FVJ4R7T	4.7 1/4W	[M]
R675	ERDS2TJ152T	1.5K 1/4W	[M]
R676	ERDS2TJ152T	1.5K 1/4W	[M]
R677	ERDS2TJ152T	1.5K 1/4W	[M]
R678	ERDS2TJ152T	1.5K 1/4W	[M]
R679	ERDS2TJ102T	1K 1/4W	[M]
R681	ERDS2TJ184T	180K 1/4W	[M]
R682	ERDS2TJ224T	220K 1/4W	[M]
R683	ERDS2TJ473T	47K 1/4W	[M]
R684	ERDS2TJ274T	270K 1/4W	[M]
R685	ERDS2TJ154T	150K 1/4W	[M]
R687	ERDS2TJ154T	150K 1/4W	[M]
R688	ERDS2TJ154T	150K 1/4W	[M]
R692	ERDS2TJ182T	1.8K 1/4W	[M]
R693	ERDS2TJ563T	56K 1/4W	[M]
R694	ERDS2TJ221T	220 1/4W	[M]
R695	ERDS2TJ124T	120K 1/4W	[M]
R696	ERDS2TJ470T	47 1/4W	[M]
R697	ERDS1FVJ100T	10 1/2W	[M] 
R698	ERDS2TJ152T	1.5K 1/4W	[M]
R699	ERDS2TJ152T	1.5K 1/4W	[M]
R705	ERDS2TJ472T	4.7K 1/4W	[M]
R706	ERDS2TJ102T	1K 1/4W	[M]
R707	ERD25FVJ221T	220 1/4W	[M]
R708	ERDS2TJ152T	1.5K 1/4W	[M]
R711	ERDS2TJ752T	7.5K 1/4W	[M]
R712	ERDS2TJ682T	6.8K 1/4W	[M]
R713	ERDS2TJ390T	39 1/4W	[M]

R714	ERDS2TJ390T	39 1/4W	[M]
R718	ERDS2TJ333T	33K 1/4W	[M]
R719	ERDS2TJ333T	33K 1/4W	[M]
R720	ERDS2TJ103T	10K 1/4W	[M]
R721	ERDS1FVJ221T	220 1/2W	[M] 
R722	ERDS2TJ123T	12K 1/4W	[M]
R723	ERDS1FVJ1R2T	1.2 1/2W	[M] 
R724	ERDS1FVJ1R2T	1.2 1/2W	[M] 
R725	ERDS2TJ152T	1.5K 1/4W	[M]
R726	ERD25FVJ151T	150 1/4W	[M]
R728	ERDS2TJ684T	680K 1/4W	[M]
R729	ERDS2TJ684T	680K 1/4W	[M]
R730	ERDS1FVJ8R2T	8.2 1/2W	[M] 
R755	ERDS2TJ222T	2.2K 1/4W	[M]
R766	ERDS2TJ473T	47K 1/4W	[M]
R767	ERDS2TJ154T	150K 1/4W	[M]
R768	ERDS2TJ103T	10K 1/4W	[M]
R769	ERDS2TJ103T	10K 1/4W	[M]
R770	ERDS2TJ104T	100K 1/4W	[M]
R771	ERDS2TJ104T	100K 1/4W	[M]
R773	ERDS2TJ103T	10K 1/4W	[M]
R774	ERDS2TJ155T	1.5M 1/4W	[M]
R775	ERDS2TJ331T	330 1/4W	[M]
R776	ERDS1FVJ220T	22 1/2W	[M] 
R777	ERDS2TJ154T	150K 1/4W	[M]
R778	ERDS2TJ472T	4.7K 1/4W	[M]
R779	ERDS2TJ103T	10K 1/4W	[M]
R780	ERDS1FVJ3R9T	3.9 1/2W	[M] 
R782	ERDS2TJ390T	39 1/4W	[M]
R784	ERDS2TJ154T	150K 1/4W	[M]
R786	ERDS2TJ154T	150K 1/4W	[M]
R791	ERDS2TJ123T	12K 1/4W	[M]
R792	ERDS2TJ123T	12K 1/4W	[M]
R793	ERDS2TJ123T	12K 1/4W	[M]
R794	ERDS2TJ123T	12K 1/4W	[M]
R795	ERDS2TJ123T	12K 1/4W	[M]

R796	ERDS2TJ123T	12K 1/4W	[M]
R797	ERDS2TJ123T	12K 1/4W	[M]
R798	ERDS2TJ123T	12K 1/4W	[M]
R799	ERDS2TJ682T	6.8K 1/4W	[M]
R901	ERDS2TJ102T	1K 1/4W	[M]
R902	ERDS2TJ472T	4.7K 1/4W	[M]
R903	ERDS2TJ103T	10K 1/4W	[M]
R904	ERDS2TJ102T	1K 1/4W	[M]
R905	ERDS2TJ104T	100K 1/4W	[M]
R906	ERDS2TJ271T	270 1/4W	[M]
R907	ERDS2TJ121T	120 1/4W	[M]
R908	ERDS2TJ223T	22K 1/4W	[M]
R909	ERDS2TJ223T	22K 1/4W	[M]
R910	ERDS2TJ222T	2.2K 1/4W	[M]
R911	ERDS2TJ222T	2.2K 1/4W	[M]
R912	ERDS2TJ104T	100K 1/4W	[M]
R913	ERDS2TJ473T	47K 1/4W	[M]
R914	ERDS2TJ102T	1K 1/4W	[M]
R915	ERDS2TJ101T	100 1/4W	[M]
R916	ERDS2TJ101T	100 1/4W	[M]
R917	ERDS2TJ102T	1K 1/4W	[M]
R918	ERDS2TJ103T	10K 1/4W	[M]
R919	ERDS2TJ103T	10K 1/4W	[M]
R920	ERDS2TJ103T	10K 1/4W	[M]
R921	ERDS2TJ472T	4.7K 1/4W	[M]
R922	ERDS2TJ104T	100K 1/4W	[M]
R923	ERDS2TJ103T	10K 1/4W	[M]
R924	ERDS2TJ103T	10K 1/4W	[M]
R925	ERDS2TJ181T	180 1/4W	[M]
R926	ERDS2TJ181T	180 1/4W	[M]
R927	ERDS2TJ101T	100 1/4W	[M]
R928	ERDS2TJ101T	100 1/4W	[M]
R931	ERDS2TJ271T	270 1/4W	[M]
R932	ERDS2TJ271T	270 1/4W	[M]
R933	ERDS2TJ271T	270 1/4W	[M]
R934	ERDS2TJ271T	270 1/4W	[M]
R935	ERDS2TJ271T	270 1/4W	[M]

R936	ERDS2TJ271T	270 1/4W	[M]
R937	ERDS2TJ271T	270 1/4W	[M]
R938	ERDS2TJ151T	150 1/4W	[M]
R939	ERDS2TJ151T	150 1/4W	[M]
R946	ERDS2TJ151T	150 1/4W	[M]
R947	ERDS2TJ473T	47K 1/4W	[M]
R948	ERDS2TJ473T	47K 1/4W	[M]
R949	ERDS2TJ473T	47K 1/4W	[M]
R950	ERDS2TJ102T	1K 1/4W	[M]
R951	ERDS2TJ222T	2.2K 1/4W	[M]
R952	ERDS2TJ152T	1.5K 1/4W	[M]
R953	ERDS2TJ182T	1.8K 1/4W	[M]
R954	ERDS2TJ222T	2.2K 1/4W	[M]
R955	ERDS2TJ332T	3.3K 1/4W	[M]
R956	ERDS2TJ472T	4.7K 1/4W	[M]
R957	ERDS2TJ682T	6.8K 1/4W	[M]
R958	ERDS2TJ123T	12K 1/4W	[M]
R960	ERDS2TJ102T	1K 1/4W	[M]
R961	ERDS2TJ122T	1.2K 1/4W	[M]
R962	ERDS2TJ152T	1.5K 1/4W	[M]
R963	ERDS2TJ182T	1.8K 1/4W	[M]
R964	ERDS2TJ222T	2.2K 1/4W	[M]
R965	ERDS2TJ332T	3.3K 1/4W	[M]
R966	ERDS2TJ472T	4.7K 1/4W	[M]
R967	ERDS2TJ682T	6.8K 1/4W	[M]
R968	ERDS2TJ123T	12K 1/4W	[M]
R971	ERDS2TJ102T	1K 1/4W	[M]
R972	ERDS2TJ102T	1K 1/4W	[M]
R973	ERDS2TJ102T	1K 1/4W	[M]
R974	ERDS2TJ102T	1K 1/4W	[M]
R975	ERDS2TJ103T	10K 1/4W	[M]
R976	ERDS2TJ104T	100K 1/4W	[M]
R981	ERDS2TJ102T	1K 1/4W	[M]
R982	ERDS2TJ102T	1K 1/4W	[M]
R983	ERDS2TJ102T	1K 1/4W	[M]
R991	ERDS2TJ104T	100K 1/4W	[M]
R992	ERDS2TJ104T	100K 1/4W	[M]

R993	ERDS2TJ104T	100K 1/4W	[M]
R994	ERDS2TJ104T	100K 1/4W	[M]
R995	ERDS2TJ104T	100K 1/4W	[M]
R996	ERDS2TJ104T	100K 1/4W	[M]
R1001	ERJ3GEYJ183V	18K 1/16W	[M]
R1015	ERJ3GEYJ4R7V	4.7 1/16W	[M]
R1016	ERJ3GEYJ4R7V	4.7 1/16W	[M]
R1017	ERJ3GEYJ4R7V	4.7 1/16W	[M]
R1023	ERJ3GEYJ101V	100 1/16W	[M]
R1024	ERJ3GEYJ101V	100 1/16W	[M]
R1026	ERJ3GEYJ330V	33 1/16W	[M]
R1030	ERJ3GEYJ105V	1M 1/16W	[M]
R1031	ERJ3GEYJ102V	1K 1/16W	[M]
R1032	ERJ3GEYJ330V	33 1/16W	[M]
R1101	ERJ3GEYJ103V	10K 1/16W	[M]
R1102	ERJ3GEYJ103V	10K 1/16W	[M]
R1103	ERJ3GEYJ103V	10K 1/16W	[M]
R1104	ERJ3GEYJ103V	10K 1/16W	[M]
R1105	ERJ3GEYJ103V	10K 1/16W	[M]
R1106	ERJ3GEYJ103V	10K 1/16W	[M]
R1107	ERJ3GEYJ103V	10K 1/16W	[M]
R1108	ERJ3GEYJ103V	10K 1/16W	[M]
R1110	ERJ3GEYJ332V	3.3K 1/16W	[M]
R1111	ERJ3GEYJ103V	10K 1/16W	[M]
R1112	ERJ3GEYJ472V	4.7K 1/16W	[M]
R1113	ERJ3GEYJ332V	3.3K 1/16W	[M]
R1114	ERJ3GEYJ332V	3.3K 1/16W	[M]
R1115	ERJ3GEYJ103V	10K 1/16W	[M]
R1116	ERJ3GEYJ472V	4.7K 1/16W	[M]
R1117	ERJ3GEYJ333V	33K 1/16W	[M]
R1118	ERJ3GEYJ472V	4.7K 1/16W	[M]
R1119	ERJ3GEYJ102V	1K 1/16W	[M]
R1120	ERJ3GEYJ102V	1K 1/16W	[M]
R1121	ERJ3GEYJ102V	1K 1/16W	[M]
R1122	ERJ3GEYJ102V	1K 1/16W	[M]
R1123	ERJ3GEYJ104V	100K 1/16W	[M]
R1124	ERJ3GEYJ102V	1K 1/16W	[M]

R1125	ERJ3GEYJ104V	100K 1/16W	[M]
R1126	ERJ3GEYJ102V	1K 1/16W	[M]
R1135	ERJ3GEYJ103V	10K 1/16W	[M]
R1136	ERJ3GEYJ103V	10K 1/16W	[M]
R1137	ERJ3GEYJ103V	10K 1/16W	[M]
R1138	ERJ3GEYJ103V	10K 1/16W	[M]
R1139	ERJ3GEYJ103V	10K 1/16W	[M]
R1201	ERJ3GEYJ102V	1K 1/16W	[M]
R1202	ERJ3GEYJ473V	47K 1/16W	[M]
R1203	ERJ3GEYJ222V	2.2K 1/16W	[M]
R1204	ERJ3GEYJ183V	18K 1/16W	[M]
R1205	ERJ3GEYJ472V	4.7K 1/16W	[M]
R1206	ERJ3GEYJ472V	4.7K 1/16W	[M]
R1207	ERJ3GEYJ102V	1K 1/16W	[M]
R1209	ERJ3GEYJ181V	180 1/16W	[M]
R1210	ERJ3GEYJ181V	180 1/16W	[M]
R1211	ERJ3GEYJ472V	4.7K 1/16W	[M]
R1212	ERJ3GEYJ472V	4.7K 1/16W	[M]
R1213	ERJ3GEYJ332V	3.3K 1/16W	[M]
R1214	ERJ3GEYJ332V	3.3K 1/16W	[M]
R1215	ERJ3GEYJ332V	3.3K 1/16W	[M]
R1216	ERJ3GEYJ152V	1.5K 1/16W	[M]
R1217	ERJ3GEYJ152V	1.5K 1/16W	[M]
R1218	ERJ3GEYJ473V	47K 1/16W	[M]
R1219	ERJ3GEYJ473V	47K 1/16W	[M]
R1220	ERJ3GEYJ332V	3.3K 1/16W	[M]
R1221	ERJ3GEYJ472V	4.7K 1/16W	[M]
R1222	ERJ3GEYJ181V	180 1/16W	[M]
R1223	ERJ3GEYJ472V	4.7K 1/16W	[M]
R1224	ERJ3GEYJ181V	180 1/16W	[M]
R1225	ERJ3GEYJ472V	4.7K 1/16W	[M]
R1226	ERJ3GEYJ472V	4.7K 1/16W	[M]
R1231	ERJ3GEYJ473V	47K 1/16W	[M]
R1232	ERJ3GEYJ473V	47K 1/16W	[M]
R1233	ERJ3GEYJ473V	47K 1/16W	[M]
R1234	ERJ3GEYJ392V	3.9K 1/16W	[M]
R1235	ERJ3GEYJ102V	1K 1/16W	[M]

R1236	ERJ3GEYJ472V	4.7K 1/16W	[M]
R1237	ERJ3GEYJ101V	100 1/16W	[M]
R1238	ERJ3GEYJ183V	18K 1/16W	[M]
R1239	ERJ3GEYJ222V	2.2K 1/16W	[M]
R1240	ERJ3GEYJ102V	1K 1/16W	[M]
R1241	ERJ3GEYJ102V	1K 1/16W	[M]
R1242	ERJ3GEYJ183V	18K 1/16W	[M]
R1243	ERJ3GEYJ183V	18K 1/16W	[M]
R1244	ERJ3GEYJ222V	2.2K 1/16W	[M]
R1245	ERJ3GEYJ222V	2.2K 1/16W	[M]
R1246	ERJ3GEYJ102V	1K 1/16W	[M]
R1247	ERJ3GEYJ681V	680 1/16W	[M]
R1248	ERJ3GEYJ682V	6.8K 1/16W	[M]
R1249	ERJ3GEYJ682V	6.8K 1/16W	[M]
R1250	ERJ3GEYJ473V	47K 1/16W	[M]
R1251	ERJ3GEYJ104V	100K 1/16W	[M]
R1252	ERJ3GEYJ104V	100K 1/16W	[M]
R1253	ERJ3GEYJ182V	1.8K 1/16W	[M]
R1254	ERJ3GEYJ102V	1K 1/16W	[M]
R1255	ERJ3GEYJ102V	1K 1/16W	[M]
R1256	ERJ3GEYJ102V	1K 1/16W	[M]
R1303	ERJ3GEYJ471V	470 1/16W	[M]
R1306	ERJ3GEYJ471V	470 1/16W	[M]
R1308	ERJ3GEYJ750V	75 1/16W	[M]
R1309	ERJ3GEYJ100V	10 1/16W	[M]
R1312	ERJ3GEYJ471V	470 1/16W	[M]
R1341	ERJ3GEYJ102V	1K 1/16W	[M]
R1342	ERJ3GEYJ102V	1K 1/16W	[M]
R1343	ERJ3GEYJ102V	1K 1/16W	[M]
R1344	ERJ3GEYJ102V	1K 1/16W	[M]
R1345	ERJ3GEYJ104V	100K 1/16W	[M]
R1346	ERJ3GEYJ104V	100K 1/16W	[M]
R1347	ERJ3GEYJ104V	100K 1/16W	[M]
R1348	ERJ3GEYJ104V	100K 1/16W	[M]
R1349	ERJ3GEYJ473V	47K 1/16W	[M]
R1350	ERJ3GEYJ473V	47K 1/16W	[M]
R1351	ERJ3GEYJ473V	47K 1/16W	[M]

R1352	ERJ3GEYJ473V	47K 1/16W	[M]
R1353	ERJ3GEYJ101V	100 1/16W	[M]
R1354	ERJ3GEYJ152V	1.5K 1/16W	[M]
R1355	ERJ3GEYJ392V	3.9K 1/16W	[M]
R1356	ERJ3GEYJ682V	6.8K 1/16W	[M]
R1357	ERJ3GEYJ682V	6.8K 1/16W	[M]
R1358	ERJ3GEYJ152V	1.5K 1/16W	[M]
R1359	ERJ3GEYJ152V	1.5K 1/16W	[M]
R1360	ERJ3GEYJ682V	6.8K 1/16W	[M]
R1361	ERJ3GEYJ682V	6.8K 1/16W	[M]
R1362	ERJ3GEYJ473V	47K 1/16W	[M]
R1363	ERJ3GEYJ222V	2.2K 1/16W	[M]
R1364	ERJ3GEYJ183V	18K 1/16W	[M]
R1365	ERJ3GEYJ682V	6.8K 1/16W	[M]
R1366	ERJ3GEYJ102V	1K 1/16W	[M]
R1367	ERJ3GEYJ104V	100K 1/16W	[M]
R1368	ERJ3GEYJ103V	10K 1/16W	[M]
R1369	ERJ3GEYJ183V	18K 1/16W	[M]
R1370	ERJ3GEYJ472V	4.7K 1/16W	[M]
R1371	ERJ3GEYJ183V	18K 1/16W	[M]
R1372	ERJ3GEYJ472V	4.7K 1/16W	[M]
R1373	ERJ3GEYJ103V	10K 1/16W	[M]
R1380	ERJ3GEYJ102V	1K 1/16W	[M]
R1381	ERJ3GEYJ102V	1K 1/16W	[M]
R1402	ERJ3GEYJ102V	1K 1/16W	[M]
R1403	ERJ3GEYJ102V	1K 1/16W	[M]
R1404	ERJ3GEYJ473V	47K 1/16W	[M]
R1405	ERJ3GEYJ473V	47K 1/16W	[M]
R1406	ERJ3GEYJ473V	47K 1/16W	[M]
R1407	ERJ3GEYJ103V	10K 1/16W	[M]
R1408	ERJ3GEYJ103V	10K 1/16W	[M]
R1409	ERJ3GEYJ103V	10K 1/16W	[M]
R1410	ERJ3GEYJ473V	47K 1/16W	[M]
R1411	ERJ3GEYJ473V	47K 1/16W	[M]
R1412	ERJ3GEYJ473V	47K 1/16W	[M]
R1413	ERJ3GEYJ102V	1K 1/16W	[M]
R1414	ERJ3GEYJ102V	1K 1/16W	[M]

R1415	ERJ3GEYJ102V	1K 1/16W	[M]
R1451	ERJ3GEYJ473V	47K 1/16W	[M]
R1452	ERJ3GEYJ473V	47K 1/16W	[M]
R1453	ERJ3GEYJ101V	100 1/16W	[M]
R1454	ERJ3GEYJ101V	100 1/16W	[M]
R1455	ERJ3GEYJ152V	1.5K 1/16W	[M]
R1456	ERJ3GEYJ152V	1.5K 1/16W	[M]
R1457	ERJ3GEYJ682V	6.8K 1/16W	[M]
R1458	ERJ3GEYJ682V	6.8K 1/16W	[M]
R1459	ERJ3GEYJ473V	47K 1/16W	[M]
R1460	ERJ3GEYJ473V	47K 1/16W	[M]
R1461	ERJ3GEYJ392V	3.9K 1/16W	[M]
R1462	ERJ3GEYJ392V	3.9K 1/16W	[M]
R1463	ERJ3GEYJ102V	1K 1/16W	[M]
R1464	ERJ3GEYJ102V	1K 1/16W	[M]
R1465	ERJ3GEYJ682V	6.8K 1/16W	[M]
R1466	ERJ3GEYJ682V	6.8K 1/16W	[M]
R1467	ERJ3GEYJ104V	100K 1/16W	[M]
R1468	ERJ3GEYJ104V	100K 1/16W	[M]
R1469	ERJ3GEYJ104V	100K 1/16W	[M]
R1470	ERJ3GEYJ104V	100K 1/16W	[M]
R1471	ERJ3GEYJ102V	1K 1/16W	[M]
R1472	ERJ3GEYJ102V	1K 1/16W	[M]
R1473	ERJ3GEYJ682V	6.8K 1/16W	[M]
R1474	ERJ3GEYJ682V	6.8K 1/16W	[M]
R1521	ERJ3GEYJ104V	100K 1/16W	[M]
R1522	ERJ3GEYJ104V	100K 1/16W	[M]
R1523	ERJ3GEYJ103V	10K 1/16W	[M]
R1525	ERJ3GEYJ103V	10K 1/16W	[M]
R1526	ERJ3GEYJ562V	5.6K 1/16W	[M]
R1527	ERJ3GEYJ332V	3.3K 1/16W	[M]
R1528	ERJ3GEYJ562V	5.6K 1/16W	[M]
R1529	ERJ3GEYJ332V	3.3K 1/16W	[M]
R1542	ERJ3GEYJ102V	1K 1/16W	[M]
R1543	ERJ3GEYJ102V	1K 1/16W	[M]
R1544	ERJ3GEYJ822V	8.2K 1/16W	[M]
R1545	ERJ3GEYJ684V	680K 1/16W	[M]

R1546	ERJ3GEYJ561V	560 1/16W	[M]
R1547	ERJ3GEYJ561V	560 1/16W	[M]
R1601	ERJ3GEYJ223V	22K 1/16W	[M]
R1602	ERJ3GEYJ684V	680K 1/16W	[M]
R1603	ERJ3GEYJ822V	8.2K 1/16W	[M]
R1604	ERJ3GEYJ102V	1K 1/16W	[M]
R1605	ERJ3GEYJ473V	47K 1/16W	[M]
R1606	ERJ3GEYJ272V	2.7K 1/16W	[M]
R1607	ERJ3GEYJ102V	1K 1/16W	[M]
R1608	ERJ3GEYJ822V	8.2K 1/16W	[M]
R1609	ERJ3GEYJ684V	680K 1/16W	[M]
R1610	ERJ3GEYJ103V	10K 1/16W	[M]
R1681	ERDS2TJ270T	27 1/4W	[M]
R1682	ERDS2TJ270T	27 1/4W	[M]
R1683	ERDS2TJ270T	27 1/4W	[M]
R1684	ERDS2TJ270T	27 1/4W	[M]
R1685	ERDS2TJ270T	27 1/4W	[M]
R1686	ERDS2TJ270T	27 1/4W	[M]
R1687	ERDS2TJ270T	27 1/4W	[M]
R1688	ERDS2TJ270T	27 1/4W	[M]
R1689	ERDS2TJ270T	27 1/4W	[M]
R1690	ERDS2TJ270T	27 1/4W	[M]
R1691	ERDS2TJ270T	27 1/4W	[M]
R1692	ERDS2TJ270T	27 1/4W	[M]
R1693	ERDS2TJ270T	27 1/4W	[M]
R1694	ERDS2TJ270T	27 1/4W	[M]
R1695	ERDS2TJ102T	1K 1/4W	[M]
R1696	ERDS2TJ102T	1K 1/4W	[M]
R1699	ERDS2TJ332T	3.3K 1/4W	[M]
R1701	ERDS1FVJ4R7T	4.7 1/2W	[M] 
R1702	ERDS1FVJ4R7T	4.7 1/2W	[M] 
R1703	ERJ3GEYJ272V	2.7K 1/16W	[M]
R1704	ERJ3GEYJ821V	820 1/16W	[M]
R1705	ERJ3GEYJ331V	330 1/16W	[M]
R1706	ERJ3GEYJ331V	330 1/16W	[M]
R1916	ERJ3GEYJ101V	100 1/16W	[M]
R1928	ERJ3GEYJ101V	100 1/16W	[M]

R1929	ERJ3GEYJ101V	100 1/16W	[M]
R1931	ERJ3GEYJ101V	100 1/16W	[M]
R1932	ERJ3GEYJ101V	100 1/16W	[M]
R1933	ERJ3GEYJ101V	100 1/16W	[M]
R1942	ERJ3GEYJ101V	100 1/16W	[M]
R1943	ERJ3GEYJ101V	100 1/16W	[M]
R1945	ERJ3GEYJ101V	100 1/16W	[M]
R1946	ERJ3GEYJ101V	100 1/16W	[M]
R1947	ERJ3GEYJ101V	100 1/16W	[M]
R1948	ERJ3GEYJ101V	100 1/16W	[M]
R1950	ERJ3GEYJ102V	1K 1/16W	[M]
R1952	ERJ3GEYJ102V	1K 1/16W	[M]
		CAPACITORS	
C301	ECA1CAK470XB	47 16V	[M]
C302	F1D1H223A012	0.022 50V	[M]
C303	ECA1CAK470XB	47 16V	[M]
C304	F1D1H223A012	0.022 50V	[M]
C305	F1D1H470A006	47P 50V	[M]
C306	F1D1H470A006	47P 50V	[M]
C307	ECA1CAK470XB	47 16V	[M]
C308	F1D1H223A012	0.022 50V	[M]
C309	F1D1H470A006	47P 50V	[M]
C310	F1D1H470A006	47P 50V	[M]
C311	F1D1H1040002	0.1 50V	[M]
C312	F1D1H1040002	0.1 50V	[M]
C313	F1D1H1040002	0.1 50V	[M]
C314	F1D1H1040002	0.1 50V	[M]
C315	ECA0JAK101XB	100 6.3V	[M]
C316	ECA0JAK101XB	100 6.3V	[M]
C351	ECBT1H103KB5	0.01 50V	[M]
C352	ECBT1H103KB5	0.01 50V	[M]
C370	ECA1CAK470XB	47 16V	[M]
C371	ECA1CAK470XB	47 16V	[M]
C372	ECA1CAK470XB	47 16V	[M]
C373	F1D1H470A006	47P 50V	[M]

C374	F1D1H470A006	47P 50V	[M]
C382	F1D1H1040002	0.1 50V	[M]
C386	F1D1H1040002	0.1 50V	[M]
C387	ECA0JAK101XB	100 6.3V	[M]
C388	ECA0JAK101XB	100 6.3V	[M]
C389	ECBT1H103KB5	0.01 50V	[M]
C390	ECA0JAK101XB	100 6.3V	[M]
C391	ECA0JAK101XB	100 6.3V	[M]
C392	ECBT1H103KB5	0.01 50V	[M]
C393	ECA1CAK470XB	47 16V	[M]
C401	ECA1HAK4R7XB	4.7 50V	[M]
C402	ECA1HAK4R7XB	4.7 50V	[M]
C403	ECBT1H103KB5	0.01 50V	[M]
C404	ECBT1H103KB5	0.01 50V	[M]
C405	F1D1H101A012	100P 50V	[M]
C409	ECA1CAK220XB	22 16V	[M]
C410	ECA1CAK220XB	22 16V	[M]
C411	F1D1H101A012	100P 50V	[M]
C412	F1D1H101A012	100P 50V	[M]
C413	ECA1CAK100XB	10 16V	[M]
C414	ECA1CAK100XB	10 16V	[M]
C415	ECBT1H103KB5	0.01 50V	[M]
C416	ECBT1H103KB5	0.01 50V	[M]
C417	ECA1CAK100XB	10 16V	[M]
C418	ECA1CAK100XB	10 16V	[M]
C421	F1D1H101A012	100P 50V	[M]
C422	F1D1H101A012	100P 50V	[M]
C423	F1D1H101A012	100P 50V	[M]
C424	F1D1H101A012	100P 50V	[M]
C425	F1D1H331A012	330P 50V	[M]
C426	F1D1H331A012	330P 50V	[M]
C427	F1D1H331A012	330P 50V	[M]
C428	F1D1H331A012	330P 50V	[M]
C429	F1D1H101A012	100P 50V	[M]
C430	F1D1H101A012	100P 50V	[M]
C431	F1D1H101A012	100P 50V	[M]
C432	F1D1H101A012	100P 50V	[M]

C433	F1D1H101A012	100P 50V	[M]
C434	F1D1H101A012	100P 50V	[M]
C435	F1D1H1040002	0.1 50V	[M]
C441	F1D1H101A012	100P 50V	[M]
C442	F1D1H101A012	100P 50V	[M]
C443	ECBT1H103KB5	0.01 50V	[M]
C451	ECA1HAK4R7XB	4.7 50V	[M]
C452	ECA1HAK4R7XB	4.7 50V	[M]
C453	F1D1H101A012	100P 50V	[M]
C454	F1D1H101A012	100P 50V	[M]
C455	F1D1H102A012	1000P 50V	[M]
C456	F1D1H102A012	1000P 50V	[M]
C457	ECA1AAK330XB	33 10V	[M]
C458	ECA1AAK330XB	33 10V	[M]
C459	ECFR1E223KR	0.022 25V	[M]
C460	ECFR1E223KR	0.022 25V	[M]
C461	ECFR1E682KR	6800P 25V	[M]
C462	ECFR1E682KR	6800P 25V	[M]
C463	ECA1HAK4R7XB	4.7 50V	[M]
C464	ECA1HAK4R7XB	4.7 50V	[M]
C465	ECBT1H103KB5	0.01 50V	[M]
C466	ECBT1H103KB5	0.01 50V	[M]
C467	ECBT1H103KB5	0.01 50V	[M]
C482	ECA1HAK3R3XB	3.3 50V	[M]
C483	F1D1H101A012	100P 50V	[M]
C489	ECA1CAK330XB	33 16V	[M]
C490	ECA1CAK330XB	33 16V	[M]
C499	F1D1H102A012	1000P 50V	[M]
C535	F1D1H1040002	0.1 50V	[M]
C583	ECA1CAK100XB	10 16V	[M]
C584	ECA1CAK100XB	10 16V	[M]
C585	ECA1CAK100XB	10 16V	[M]
C586	ECA1CAK100XB	10 16V	[M]
C601	ECA1JAM330XB	33 63V	[M]
C602	ECA1JAM330XB	33 63V	[M]
C603	F1D1H101A012	100P 50V	[M]
C604	F1D1H101A012	100P 50V	[M]

C607	ECCR1H180KC5	18P 50V	[M]
C608	ECCR1H180KC5	18P 50V	[M]
C611	ECQV1H104JZ3	0.1 50V	[M]
C612	ECQV1H104JZ3	0.1 50V	[M]
C613	ECQV1H104JZ3	0.1 50V	[M]
C614	ECQV1H104JZ3	0.1 50V	[M]
C615	ECBT1H103KB5	0.01 50V	[M]
C616	ECA1HAM470XB	47 50V	[M]
C617	ECEA2AN2R2SB	2.2 100V	[M]
C618	F1D1H102A012	1000P 50V	[M]
C621	ECA2AAM330XB	33 100V	[M]
C622	ECA2AAM330XB	33 100V	[M]
C625	ECEA1HN220UB	22 50V	[M]
C626	ECEA1HN220UB	22 50V	[M]
C631	ECKR1H223ZF5	0.022 50V	[M]
C632	ECKR1H223ZF5	0.022 50V	[M]
C635	ECKR1H223ZF5	0.022 50V	[M]
C636	ECKR1H223ZF5	0.022 50V	[M]
C637	ECKR1H223ZF5	0.022 50V	[M]
C638	ECKR1H223ZF5	0.022 50V	[M]
C639	ECKR1H223ZF5	0.022 50V	[M]
C640	ECKR1H223ZF5	0.022 50V	[M]
C641	ECA1JAM330XB	33 63V	[M]
C642	F1D1H101A012	100P 50V	[M]
C643	ECCR1H180KC5	18P 50V	[M]
C644	ECQV1H104JZ3	0.1 50V	[M]
C645	ECQV1H104JZ3	0.1 50V	[M]
C651	ECA1JAM330XB	33 63V	[M]
C652	ECA1JAM330XB	33 63V	[M]
C653	F1D1H821A012	820P 50V	[M]
C654	F1D1H821A012	820P 50V	[M]
C657	ECCR1H180KC5	18P 50V	[M]
C658	ECCR1H180KC5	18P 50V	[M]
C661	ECQV1H104JZ3	0.1 50V	[M]
C662	ECQV1H104JZ3	0.1 50V	[M]
C663	ECQV1H104JZ3	0.1 50V	[M]
C664	ECQV1H104JZ3	0.1 50V	[M]

C666	ECA1HAM470XB	47 50V	[M]
C667	ECEA2AN2R2SB	2.2 100V	[M]
C668	F1D1H102A012	1000P 50V	[M]
C672	ECA2AAM330XB	33 100V	[M]
C685	ECBT1H103KB5	0.01 50V	[M]
C692	ECA1JAM330XB	33 63V	[M]
C693	ECCR1H180KC5	18P 50V	[M]
C694	F1D1H821A012	820P 50V	[M]
C695	ECQV1H104JZ3	0.1 50V	[M]
C696	ECQV1H104JZ3	0.1 50V	[M]
C701	ECBT1H103KB5	0.01 50V	[M]
C702	ECQE2104KF3	0.1 250V	[M]
C703	RCE1J472MHSK	4700P 63V	[M] 
C704	RCE1J472MHSK	4700P 63V	[M] 
C705	ECES1VV472U	4700 35V	[M] 
C706	ECES1VV472U	4700 35V	[M] 
C707	ECA1VAM101XB	100 35V	[M]
C708	ECBT1H103KB5	0.01 50V	[M]
C709	ECA1CAK330XB	33 16V	[M]
C710	ECBT1H103KB5	0.01 50V	[M]
C711	ECBT1H103KB5	0.01 50V	[M]
C712	ECA1HAK100XB	10 50V	[M]
C713	ECBT1H103KB5	0.01 50V	[M]
C714	ECA1EAK470XB	47 25V	[M]
C715	ECA1CAK101XB	100 16V	[M]
C721	ECQE2104KF3	0.1 250V	[M]
C722	ECQE2104KF3	0.1 250V	[M]
C741	ECQV1H104JZ3	0.1 50V	[M]
C751	ECKWRS102MBC	1000P 400V	[M] 
C752	ECKR1H103ZF5	0.01 50V	[M]
C753	ECA1EAM331XB	330 25V	[M]
C754	ECBT1H103KB5	0.01 50V	[M]
C755	ECA1CAK470XB	47 16V	[M]
C757	ECA1CAK100XB	10 16V	[M]
C758	ECA1CAK101XB	100 16V	[M]
C771	ECA1HAK4R7XB	4.7 50V	[M]

C772	ECA1HAK4R7XB	4.7 50V	[M]
C773	F1D1H1040002	0.1 50V	[M]
C774	ECA0JAK101XB	100 6.3V	[M]
C775	ECA1CAK100XB	10 16V	[M]
C776	ECA1HAK010XB	1 50V	[M]
C777	ECA1CAM221XB	220 16V	[M]
C778	ECA1CAK101XB	100 16V	[M]
C779	ECA1CAK101XB	100 16V	[M]
C780	ECA1CAM471XB	470 16V	[M]
C781	ECBT1H103KB5	0.01 50V	[M]
C901	ECA0JAM102XB	1000 6.3V	[M] ⚠
C902	F1D1H1040002	0.1 50V	[M]
C903	ECBT1H103KB5	0.01 50V	[M]
C904	ECA0JAM102XB	1000 6.3V	[M] ⚠
C905	ECA1HAK010XB	1 50V	[M]
C906	ECA1HAK010XB	1 50V	[M]
C907	ECBT1H103KB5	0.01 50V	[M]
C908	ECBT1H103KB5	0.01 50V	[M]
C909	ECA1HAK100XB	10 50V	[M]
C910	ECA1HAK100XB	10 50V	[M]
C913	ECA1HAK100XB	10 50V	[M]
C914	ECA1HAK100XB	10 50V	[M]
C915	ECA0JAK101XB	100 6.3V	[M]
C916	ECBT1H103KB5	0.01 50V	[M]
C917	ECA1CAK100XB	10 16V	[M]
C918	F1D1H471A012	470P 50V	[M]
C919	F1D1H471A012	470P 50V	[M]
C921	F1D1H331A012	330P 50V	[M]
C922	F1D1H331A012	330P 50V	[M]
C923	F1D1H331A012	330P 50V	[M]
C924	F1D1H331A012	330P 50V	[M]
C925	F1D1H331A012	330P 50V	[M]
C926	F1D1H331A012	330P 50V	[M]
C927	F1D1H331A012	330P 50V	[M]
C928	F1D1H331A012	330P 50V	[M]
C929	F1D1H331A012	330P 50V	[M]
C930	F1D1H331A012	330P 50V	[M]

C931	ECBT1H103KB5	0.01 50V	[M]
C932	ECBT1H103KB5	0.01 50V	[M]
C970	F1D1H102A012	1000P 50V	[M]
C971	ECA0JAK101XB	100 6.3V	[M]
C972	F1D1H470A006	47P 50V	[M]
C973	F1D1H470A006	47P 50V	[M]
C974	F1D1H561A012	560P 50V	[M]
C975	F1D1H331A012	330P 50V	[M]
C976	ECA1CAK100XB	10 16V	[M]
C977	ECBT1H103KB5	0.01 50V	[M]
C978	ECA0JAK101XB	100 6.3V	[M]
C991	F1D1H101A012	100P 50V	[M]
C992	F1D1H101A012	100P 50V	[M]
C993	F1D1H101A012	100P 50V	[M]
C994	F1D1H101A012	100P 50V	[M]
C995	F1D1H101A012	100P 50V	[M]
C996	F1D1H101A012	100P 50V	[M]
C1011	ECUVNC104ZFV	0.1 16V	[M]
C1012	ECA0JAK101XB	100 6.3V	[M]
C1013	ECJ1VB1H102K	1000P 50V	[M]
C1014	ECUVNC104ZFV	0.1 16V	[M]
C1015	ECA0JAK101XB	100 6.3V	[M]
C1021	ECUVNC104ZFV	0.1 16V	[M]
C1022	ECA0JAK101XB	100 6.3V	[M]
C1024	ECUVNC104ZFV	0.1 16V	[M]
C1025	ECA1HAK2R2XB	2.2 50V	[M]
C1027	ECUVNC104ZFV	0.1 16V	[M]
C1032	ECUVNC104ZFV	0.1 16V	[M]
C1033	ECUV1H220JCV	22P 50V	[M]
C1035	ECUV1H220JCV	22P 50V	[M]
C1039	ECJ1VC1H101K	100P 50V	[M]
C1041	ECUVNC104ZFV	0.1 16V	[M]
C1045	ECA0JAK101XB	100 6.3V	[M]
C1101	ECA0JAK101XB	100 6.3V	[M]
C1102	ECUVNC104ZFV	0.1 16V	[M]
C1103	ECA0JAK101XB	100 6.3V	[M]
C1104	ECA0JAK101XB	100 6.3V	[M]

C1105	ECUVNC104ZFV	0.1 16V	[M]
C1106	ECUVNC104ZFV	0.1 16V	[M]
C1107	ECUV1H471KBV	470P 50V	[M]
C1108	ECUV1H103KBV	0.01 50V	[M]
C1109	ECA1HAK2R2XB	2.2 50V	[M]
C1110	ECA0JAK101XB	100 6.3V	[M]
C1111	ECUVNC104ZFV	0.1 16V	[M]
C1112	ECJ1VC1H101K	100P 50V	[M]
C1113	ECJ1VC1H101K	100P 50V	[M]
C1114	ECJ1VB1H102K	100P 50V	[M]
C1115	ECJ1VB1H102K	100P 50V	[M]
C1116	ECUVNC104ZFV	0.1 16V	[M]
C1117	ECA0JAK101XB	100 6.3V	[M]
C1118	ECUVNC104ZFV	0.1 16V	[M]
C1119	ECA0JAK101XB	100 6.3V	[M]
C1120	ECUVNC104ZFV	0.1 16V	[M]
C1121	ECA1APX101B	100 10V	[M]
C1122	ECUVNC104ZFV	0.1 16V	[M]
C1123	ECUVNC104ZFV	0.1 16V	[M]
C1124	ECUVNC104ZFV	0.1 16V	[M]
C1125	ECA0JAK101XB	100 6.3V	[M]
C1126	ECUVNC104ZFV	0.1 16V	[M]
C1127	ECA0JAK101XB	100 6.3V	[M]
C1201	ECUV1H103KBV	0.01 50V	[M]
C1202	ECUV1A224KBV	0.22 10V	[M]
C1203	ECUVNC104ZFV	0.1 16V	[M]
C1204	ECA1HAK100XB	10 50V	[M]
C1205	ECA1CAK330XB	33 16V	[M]
C1206	ECUV1H103KBV	0.01 50V	[M]
C1211	ECUV1H103KBV	0.01 50V	[M]
C1212	ECA1EAK100XB	10 25V	[M]
C1213	ECUV1H471KBV	470P 50V	[M]
C1214	ECUV1H471KBV	470P 50V	[M]
C1215	ECUV1H221KBV	220P 50V	[M]
C1216	ECUV1H221KBV	220P 50V	[M]
C1217	ECA1HAK100XB	10 50V	[M]
C1218	ECA1HAK100XB	10 50V	[M]

C1219	ECUV1H103KBV	0.01 50V	[M]
C1220	ECUV1H103KBV	0.01 50V	[M]
C1221	ECA1HAK100XB	10 50V	[M]
C1222	ECA1HAK100XB	10 50V	[M]
C1223	ECUVNC104ZFV	0.1 16V	[M]
C1224	ECUV1H332KBV	3300P 50V	[M]
C1225	ECUV1H332KBV	3300P 50V	[M]
C1226	ECUV1H471KBV	470P 50V	[M]
C1227	ECUV1H471KBV	470P 50V	[M]
C1231	ECA1CAK330XB	33 16V	[M]
C1232	ECA1EAK330XB	33 25V	[M]
C1233	ECJ1VB1H472K	4700P 50V	[M]
C1234	ECJ1VB1H472K	4700P 50V	[M]
C1235	ECJ1VB1H472K	4700P 50V	[M]
C1236	ECA1EAK330XB	33 25V	[M]
C1237	ECJ1VB1H331K	330P 50V	[M]
C1238	ECJ1VC1H101K	100P 50V	[M]
C1239	ECJ1VB1H272K	2700P 50V	[M]
C1240	ECJ1VB1H272K	2700P 50V	[M]
C1241	ECJ1VB1H272K	2700P 50V	[M]
C1242	ECJ1VC1H101K	100P 50V	[M]
C1243	ECJ1VC1H101K	100P 50V	[M]
C1244	ECUV1H103KBV	0.01 50V	[M]
C1245	ECUV1H103KBV	0.01 50V	[M]
C1246	ECA1HAK100XB	10 50V	[M]
C1247	ECA1HAK100XB	10 50V	[M]
C1248	ECUV1H221KBV	220P 50V	[M]
C1249	ECJ1VB1E223K	0.022 25V	[M]
C1250	ECA1CAK330XB	33 16V	[M]
C1251	ECJ1VB1H331K	330P 50V	[M]
C1252	ECA1HAK4R7XB	4.7 50V	[M]
C1254	ECUV1H103KBV	0.01 50V	[M]
C1255	ECUV1H103KBV	0.01 50V	[M]
C1260	ECA1HAK4R7XB	4.7 50V	[M]
C1303	ECUVNC104ZFV	0.1 16V	[M]
C1306	ECUVNC104ZFV	0.1 16V	[M]
C1307	ECUVNC104ZFV	0.1 16V	[M]

C1308	ECUVNC104ZFV	0.1 16V	[M]
C1309	ECUVNC104ZFV	0.1 16V	[M]
C1310	ECA0JAK101XB	100 6.3V	[M]
C1311	ECUVNC104ZFV	0.1 16V	[M]
C1313	ECUV1H103KBV	0.01 50V	[M]
C1316	ECUVNC104ZFV	0.1 16V	[M]
C1341	ECJ1VB1H331K	330P 50V	[M]
C1342	ECJ1VB1H331K	330P 50V	[M]
C1343	ECJ1VB1H331K	330P 50V	[M]
C1344	ECJ1VB1H331K	330P 50V	[M]
C1345	ECA1HAK4R7XB	4.7 50V	[M]
C1346	ECA1HAK4R7XB	4.7 50V	[M]
C1347	ECA1HAK4R7XB	4.7 50V	[M]
C1348	ECA1HAK4R7XB	4.7 50V	[M]
C1349	ECUV1H221KBV	220P 50V	[M]
C1350	ECUV1H221KBV	220P 50V	[M]
C1351	ECUV1H221KBV	220P 50V	[M]
C1352	ECUV1H221KBV	220P 50V	[M]
C1353	ECUV1H103KBV	0.01 50V	[M]
C1354	ECUV1H103KBV	0.01 50V	[M]
C1355	ECA1EAK100XB	10 25V	[M]
C1356	ECA1EAK100XB	10 25V	[M]
C1361	ECA1CAK330XB	33 16V	[M]
C1362	ECJ1VC1H101K	100P 50V	[M]
C1363	ECJ1VB1H272K	2700P 50V	[M]
C1364	ECJ1VB1H331K	330P 50V	[M]
C1365	ECUV1H221KBV	220P 50V	[M]
C1366	ECA1HAK4R7XB	4.7 50V	[M]
C1367	ECA1CAK220XB	22 16V	[M]
C1368	ECUV1H221KBV	220P 50V	[M]
C1369	ECUV1H221KBV	220P 50V	[M]
C1370	ECA1CAK220XB	22 16V	[M]
C1371	ECUV1H103KBV	0.01 50V	[M]
C1372	ECUV1H103KBV	0.01 50V	[M]
C1373	ECA1EAK100XB	10 25V	[M]
C1374	ECA1EAK100XB	10 25V	[M]
C1375	ECUV1H103KBV	0.01 50V	[M]

C1376	ECUV1H103KBV	0.01 50V	[M]
C1380	ECJ1VB1H472K	4700P 50V	[M]
C1401	ECA1HAK4R7XB	4.7 50V	[M]
C1402	ECA1HAK4R7XB	4.7 50V	[M]
C1403	ECUV1H103KBV	0.01 50V	[M]
C1404	ECUV1H103KBV	0.01 50V	[M]
C1405	ECA1CAK330XB	33 16V	[M]
C1406	ECA1CAK330XB	33 16V	[M]
C1407	ECA1CAK330XB	33 16V	[M]
C1408	ECA1CAK330XB	33 16V	[M]
C1409	ECJ1VC1H101K	100P 50V	[M]
C1410	ECA1EAK470XB	47 25V	[M]
C1411	ECA1EAK470XB	47 25V	[M]
C1412	ECUVNC104ZFV	0.1 16V	[M]
C1413	ECUVNC104ZFV	0.1 16V	[M]
C1414	ECA1CAK330XB	33 16V	[M]
C1415	ECA1CAK330XB	33 16V	[M]
C1416	ECUVNC104ZFV	0.1 16V	[M]
C1417	ECUVNC104ZFV	0.1 16V	[M]
C1451	ECA1HAK4R7XB	4.7 50V	[M]
C1452	ECA1HAK4R7XB	4.7 50V	[M]
C1453	ECJ1VC1H470J	47P 50V	[M]
C1454	ECJ1VC1H470J	47P 50V	[M]
C1455	ECA1CAK330XB	33 16V	[M]
C1456	ECA1CAK330XB	33 16V	[M]
C1457	ECUV1H221KBV	220P 50V	[M]
C1458	ECUV1H221KBV	220P 50V	[M]
C1459	ECA1HAK4R7XB	4.7 50V	[M]
C1460	ECA1HAK4R7XB	4.7 50V	[M]
C1461	ECA1HAK4R7XB	4.7 50V	[M]
C1462	ECA1HAK4R7XB	4.7 50V	[M]
C1463	ECUV1H221KBV	220P 50V	[M]
C1464	ECUV1H221KBV	220P 50V	[M]
C1465	ECA1EAK470XB	47 25V	[M]
C1466	ECA1EAK470XB	47 25V	[M]
C1467	ECUVNC104ZFV	0.1 16V	[M]
C1468	ECUVNC104ZFV	0.1 16V	[M]

C1521	ECA1HAK4R7XB	4.7 50V	[M]
C1522	ECA1HAK4R7XB	4.7 50V	[M]
C1523	ECA1EAK470XB	47 25V	[M]
C1524	ECUV1H103KBV	0.01 50V	[M]
C1527	ECEA1CKN100B	10 16V	[M]
C1528	ECEA1CKN100B	10 16V	[M]
C1529	ECA1HAK100XB	10 50V	[M]
C1530	ECUVNC104ZFV	0.1 16V	[M]
C1543	ECUV1H103KBV	0.01 50V	[M]
C1601	ECUVNC104ZFV	0.1 16V	[M]
C1602	ECA1CAK100XB	10 16V	[M]
C1603	ECUVNC104ZFV	0.1 16V	[M]
C1681	ECBT1H103KB5	0.01 50V	[M]
C1682	ECBT1H103KB5	0.01 50V	[M]
C1683	ECBT1C332KR5	3300P 16V	[M]
C1684	ECBT1C332KR5	3300P 16V	[M]
C1685	ECBT1H103KB5	0.01 50V	[M]
C1701	ECA1AM332E	3300 10V	[M]
C1702	ECA1CAK101XB	100 16V	[M]
C1703	ECUV1H103KBV	0.01 50V	[M]
C1704	ECA1CAK100XB	10 16V	[M]
C1705	ECA1CAK220XB	22 16V	[M]
C1706	ECUV1H391JCV	390P 50V	[M]
C1801	ECUVNC104ZFV	0.1 16V	[M]
C1950	ECUV1H221KBV	220P 50V	[M]
C1951	ECUV1H221KBV	220P 50V	[M]

[TOP](#) [PREVIOUS](#) [NEXT](#)

15.3 Packing Materials& Accessories Parts List

[TOP](#) [PREVIOUS](#) [NEXT](#)

Ref. No.	Part No.	Part Name & Description	Remarks
		PACKING MATERIALS	
P1	RPG5789	PACKING CASE	[M]
P2	RPN1533	POLYFOAM	[M]
P3	RPFX0005	MIRAMAT BAG	[M]
		ACCESSORIES	
A1	EUR7702KF0	REMOTE CONTROL	[M]
A1-1	UR64EC2337D	R/C BATTREY COVER	[M]
A2	RJA0019-2K	AC CORD (SF)	[M]  EG E
A2	VJA0733	AC CORD (SF)	[M]  EB
A3	RQT6203-R	O/I FOR REMOTE CONTR	[M]E
A3	RQT6204-B	O/I FOR REMOTE CONTR	[M]EB E
A3	RQT6206-D	O/I FOR REMOTE CONTR	[M]EG
A3	RQT6210-R	O/I BOOK	[M]E
A3	RQT6211-B	O/I BOOK	[M]EB E
A3	RQT6212-D	O/I BOOK	[M]EG
A3	RQT6475-R	O/I FOR REMOTE CONTR	[M]E
A3	RQT6476-D	O/I FOR REMOTE CONTR	[M]EG
A3	RQT6477-D	O/I FOR REMOTE CONTR	[M]EG
A4	RSA0007-L	FM ANTENNA WIRE	[M]
A5	K1YZ02000013	ANT ADAPTER	[M]EB
A6	N1DAEYA00006	AM LOOP ANT	[M]EG E

[TOP](#) [PREVIOUS](#) [NEXT](#)

15.4 Packaging

[TOP](#) [PREVIOUS](#)



[TOP](#) [PREVIOUS](#)

P2 (RPN1533) — *P2 (A)
— *P2 (B)

ACCESORIES BAG

A1: Remote Control

A2: AC Cord

A3: O/I Book

A4: FM Antenna Wire

A5: AM Loop Ant

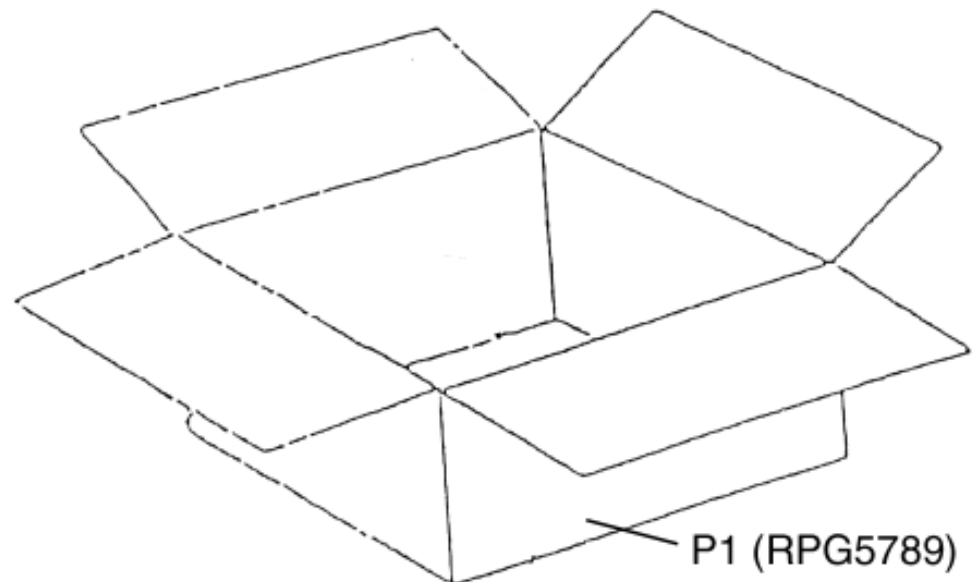
ACCESSORIES
BAG

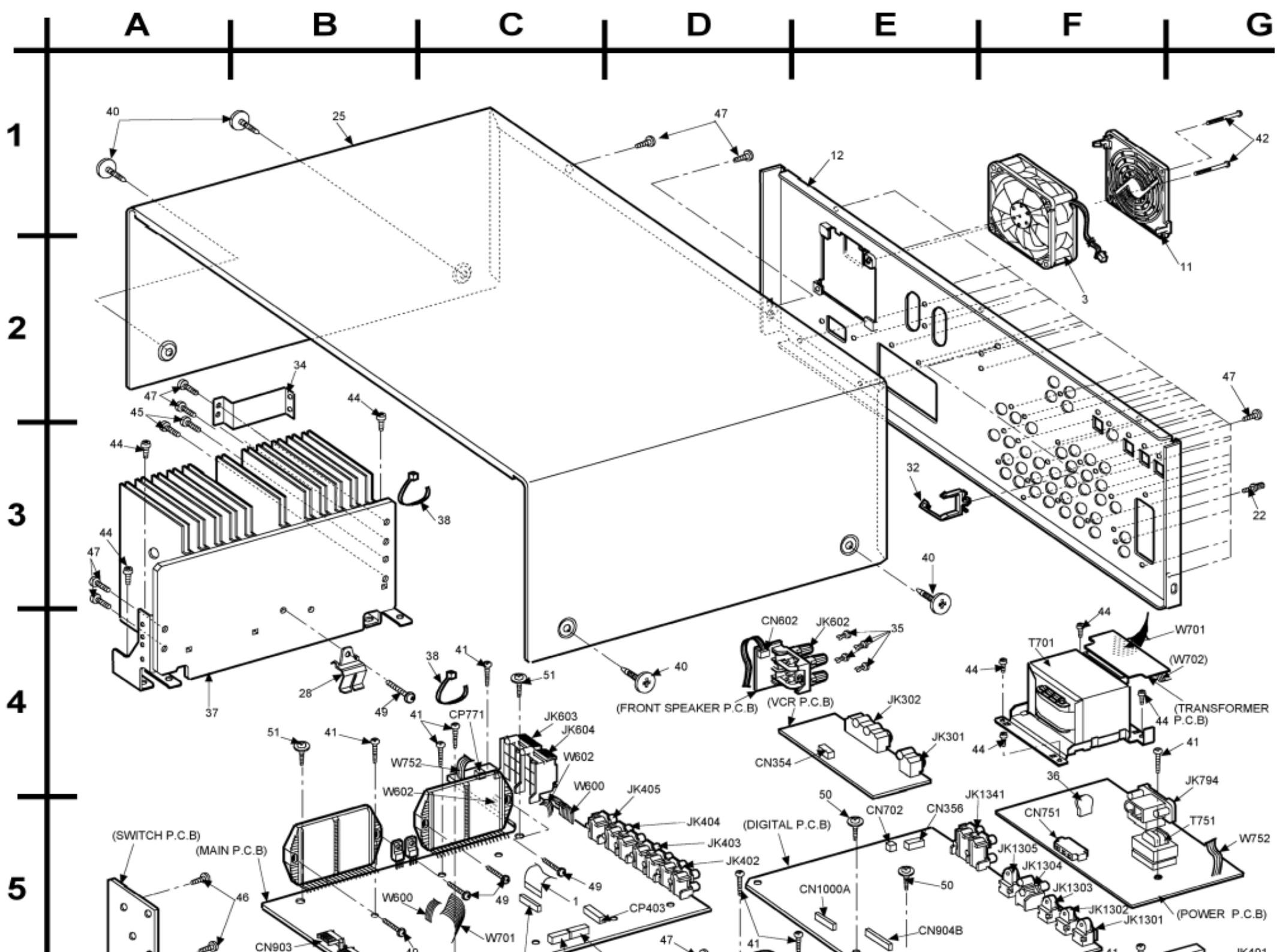
*P2 (A)

P3 (RPFX0005)

* P2 (B)

P1 (RPG5789)



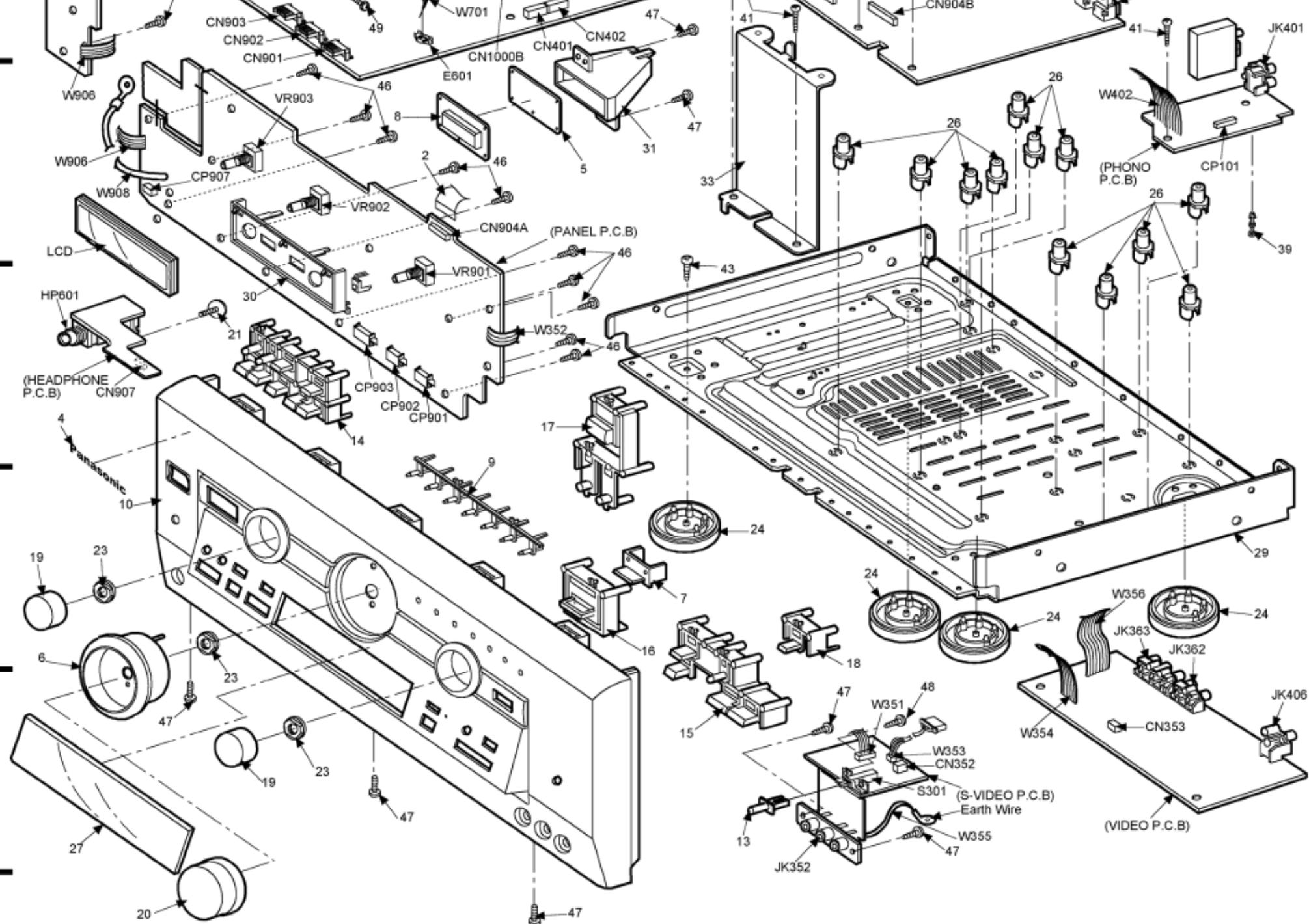


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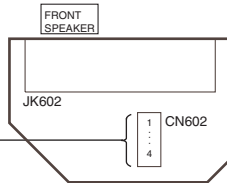
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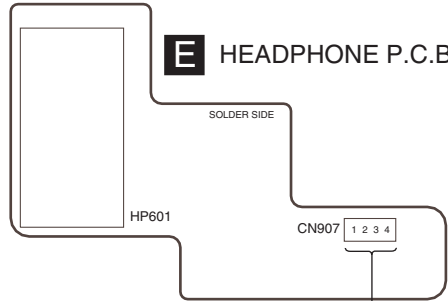


D FRONT SPEAKER A PCB

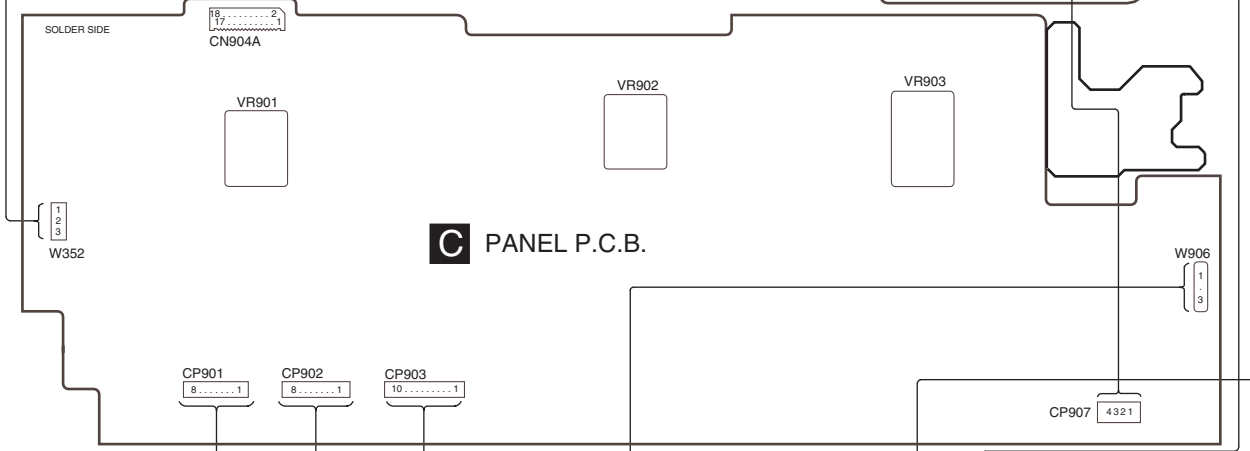


PHONES

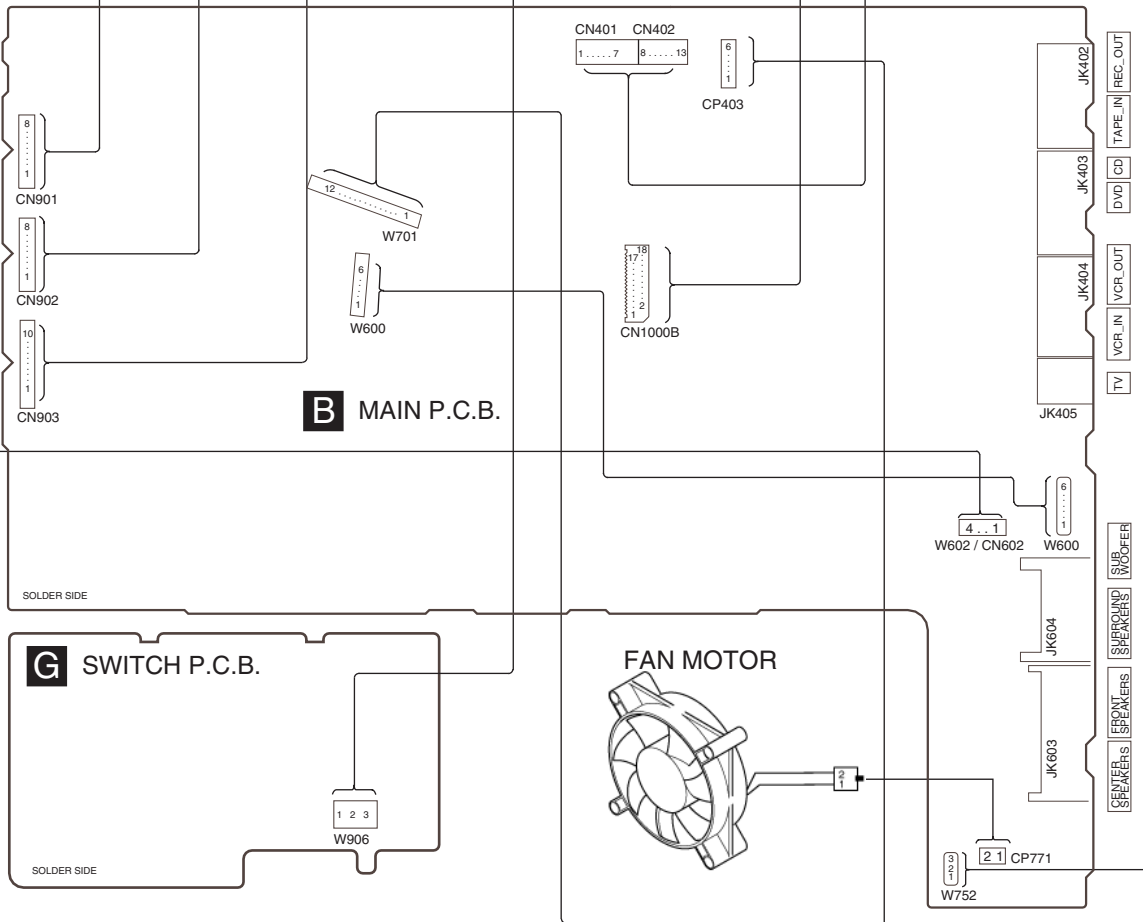
E HEADPHONE P.C.B.



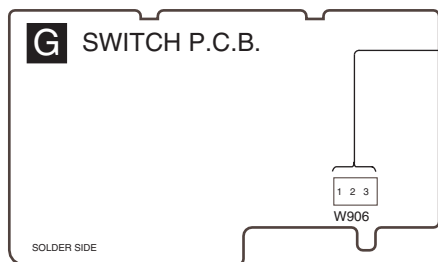
C PANEL P.C.B.



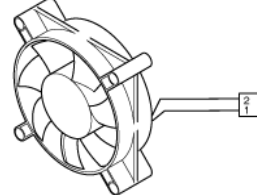
B MAIN P.C.B.

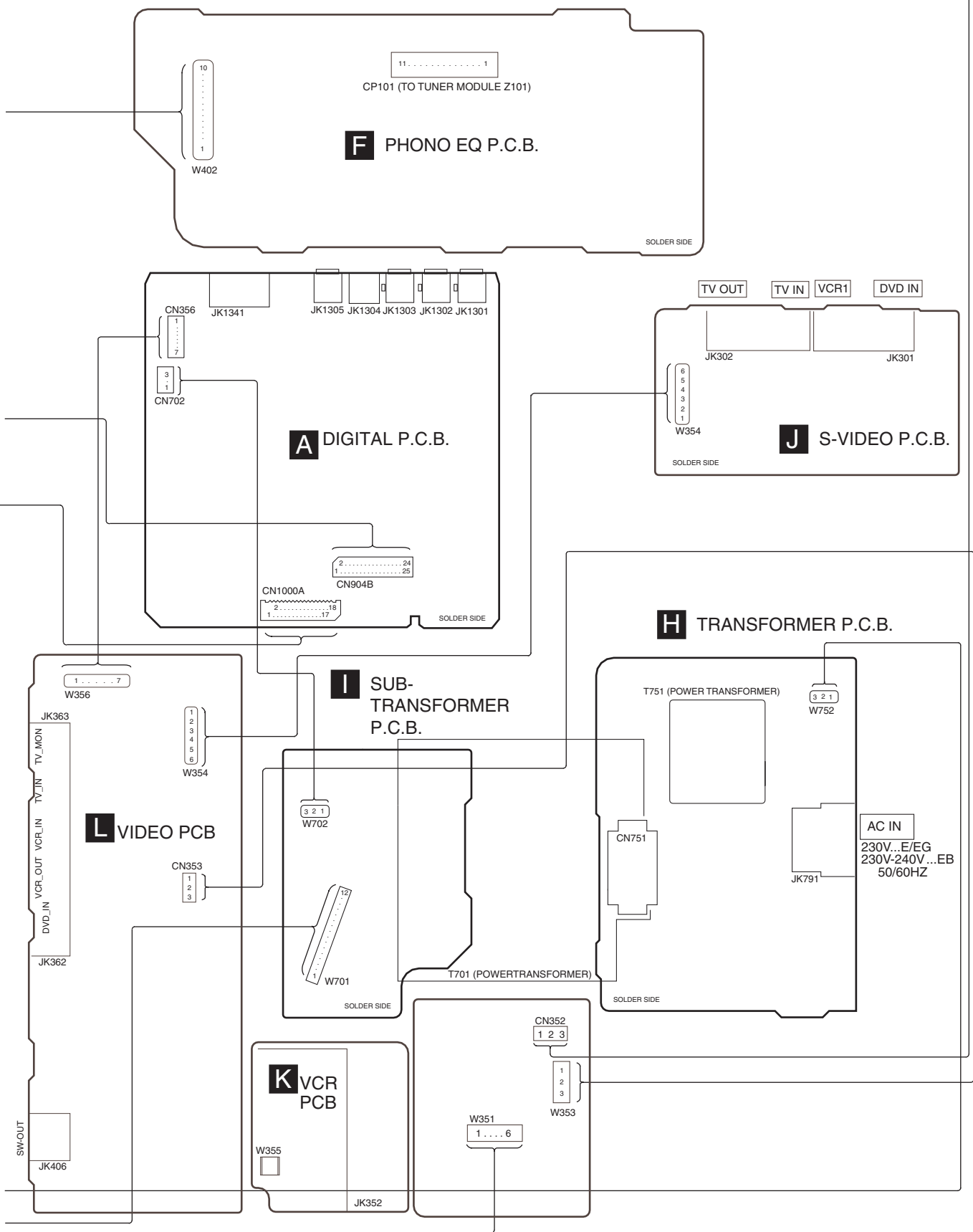


G SWITCH P.C.B.

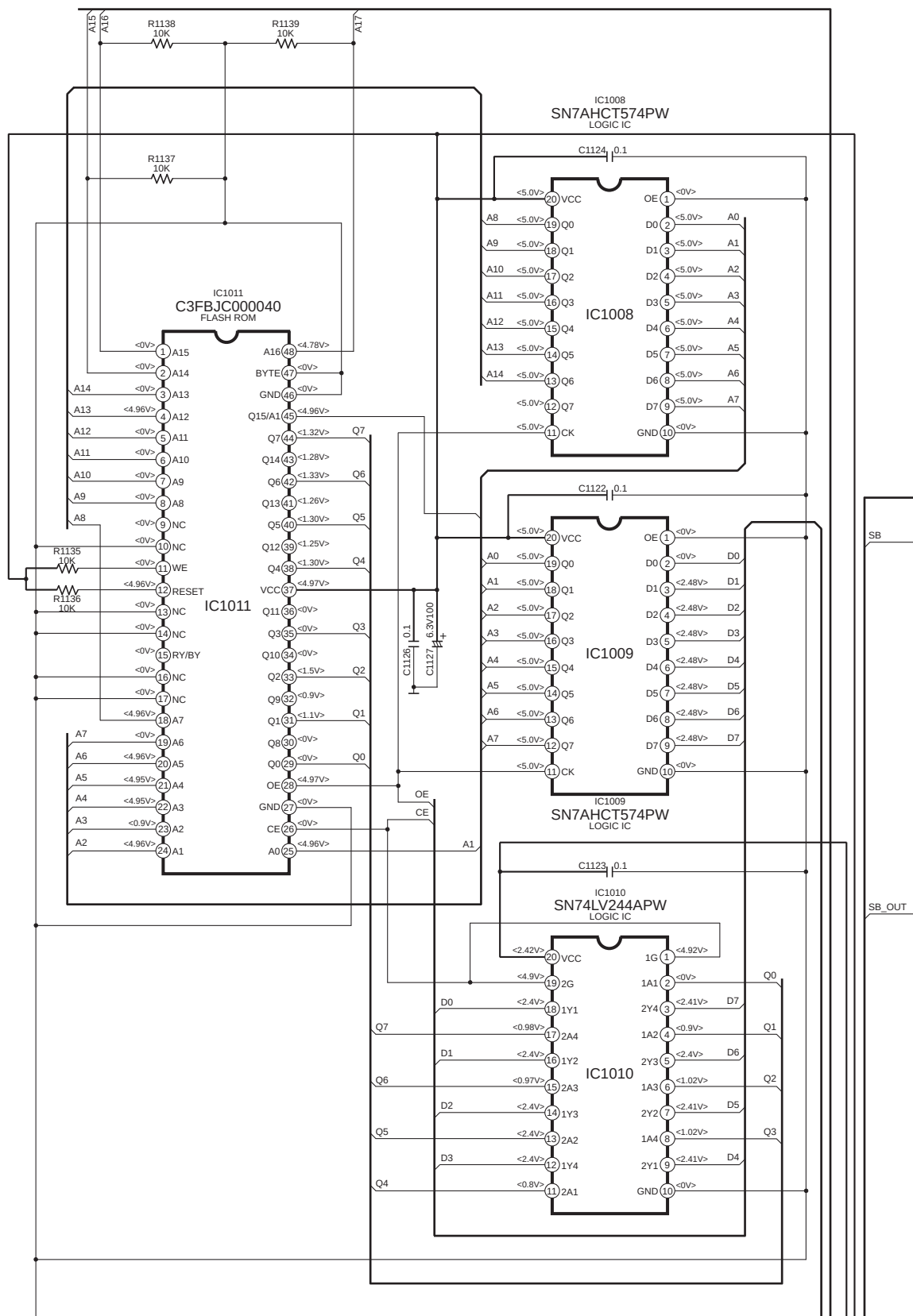


FAN MOTOR









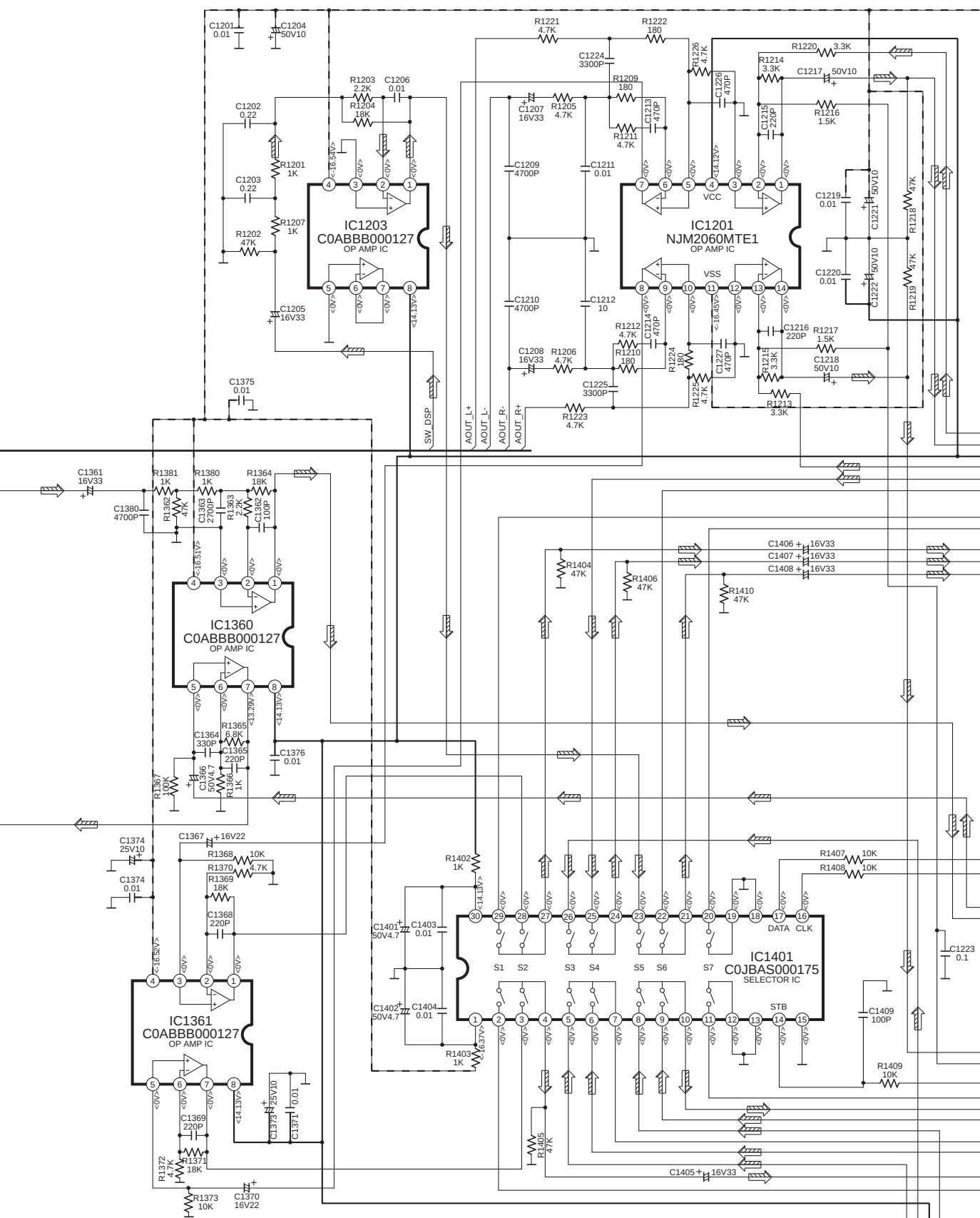
SCHEMATIC DIAGRAM-2

A DIGITAL CIRCUIT

--- : -B SIGNAL LINE

— : +B SIGNAL LINE

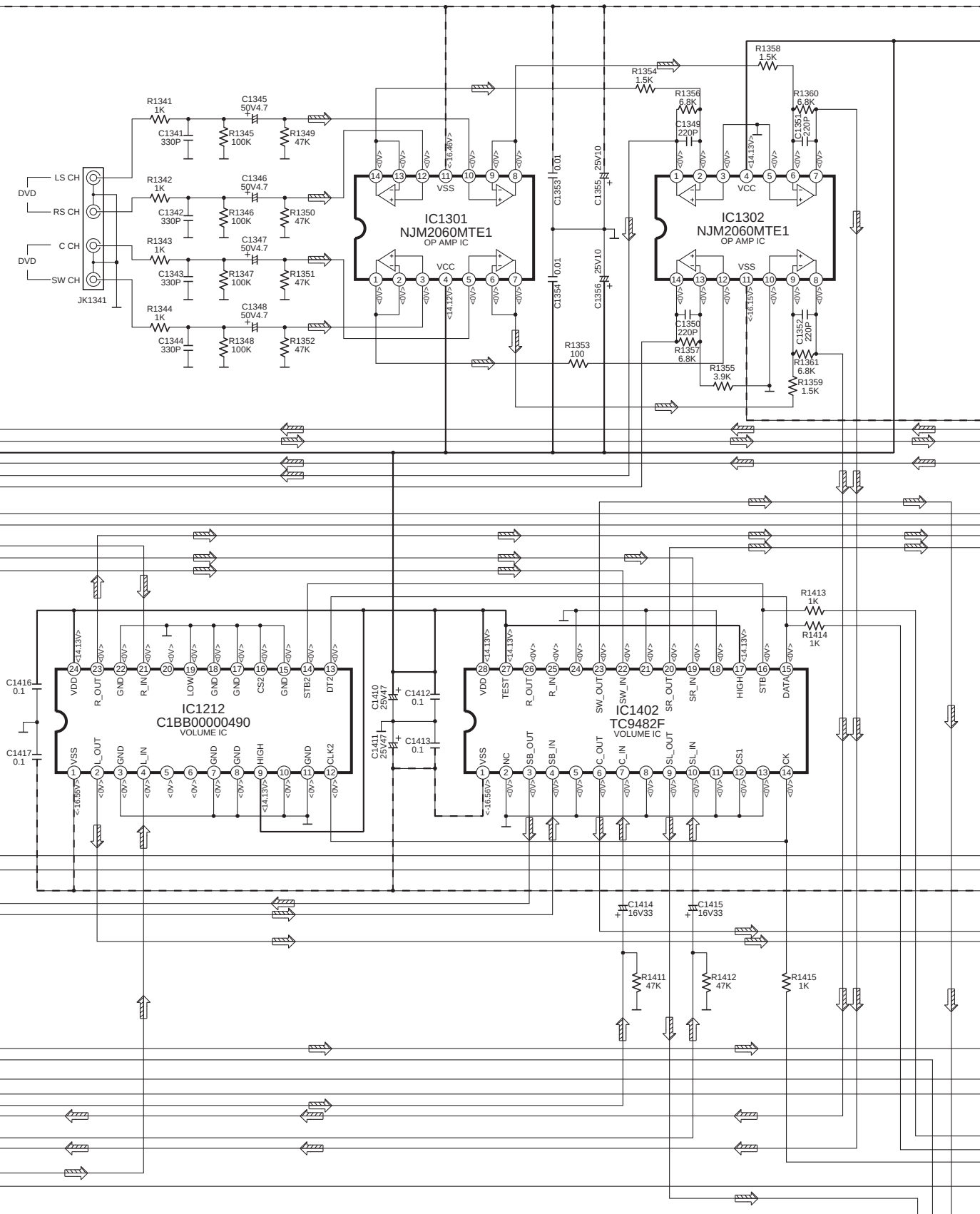
⇒ : MAIN SIGNAL LINE



SCHEMATIC DIAGRAM-3

A DIGITAL CIRCUIT

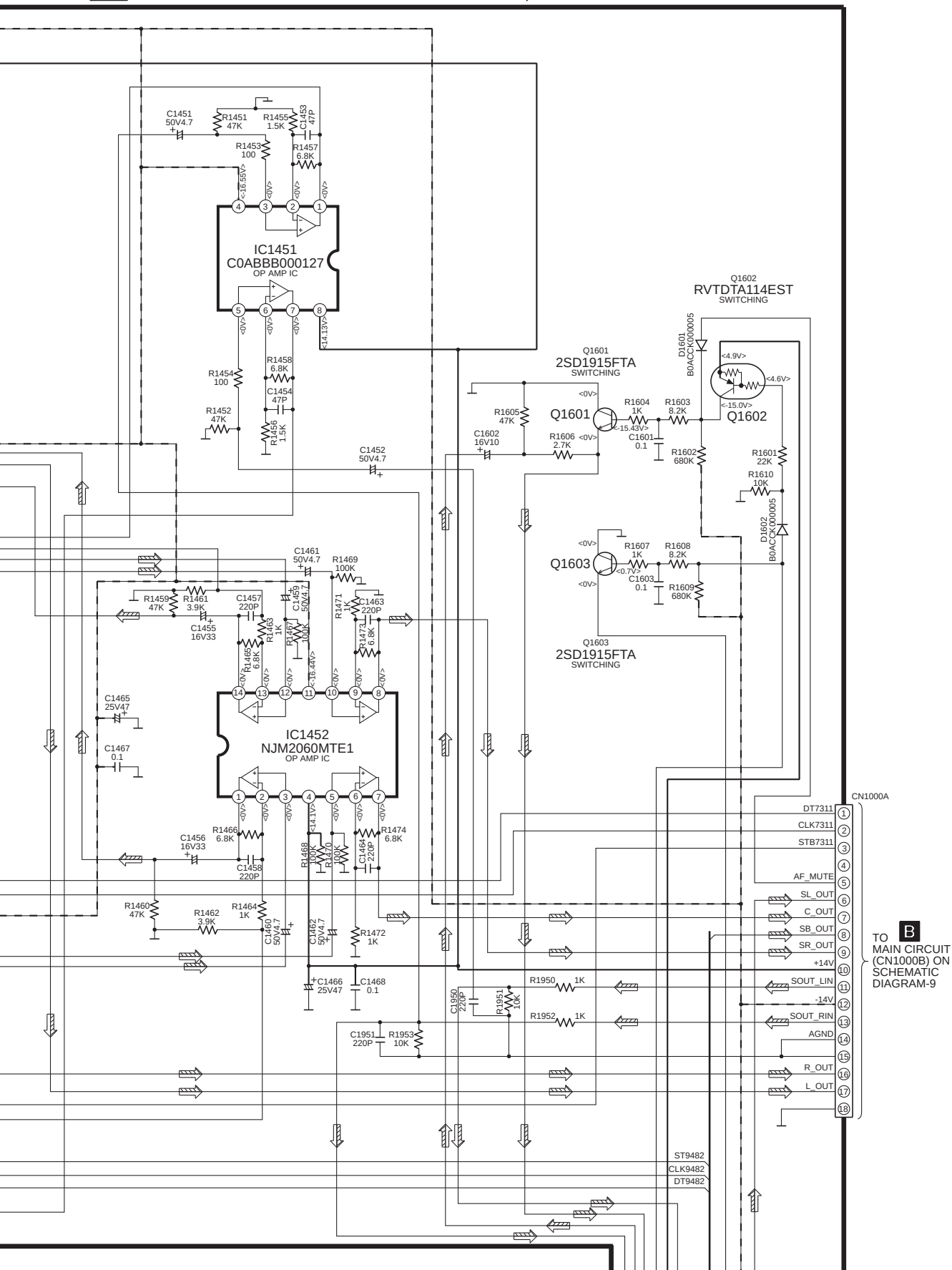
--- : -B SIGNAL LINE
 — : +B SIGNAL LINE ➡ : MAIN SIGNAL LINE



A DIGITAL CIRCUIT

———— : +B SIGNAL LINE

 : MAIN SIGNAL LINE



A DIGITAL CIRCUIT

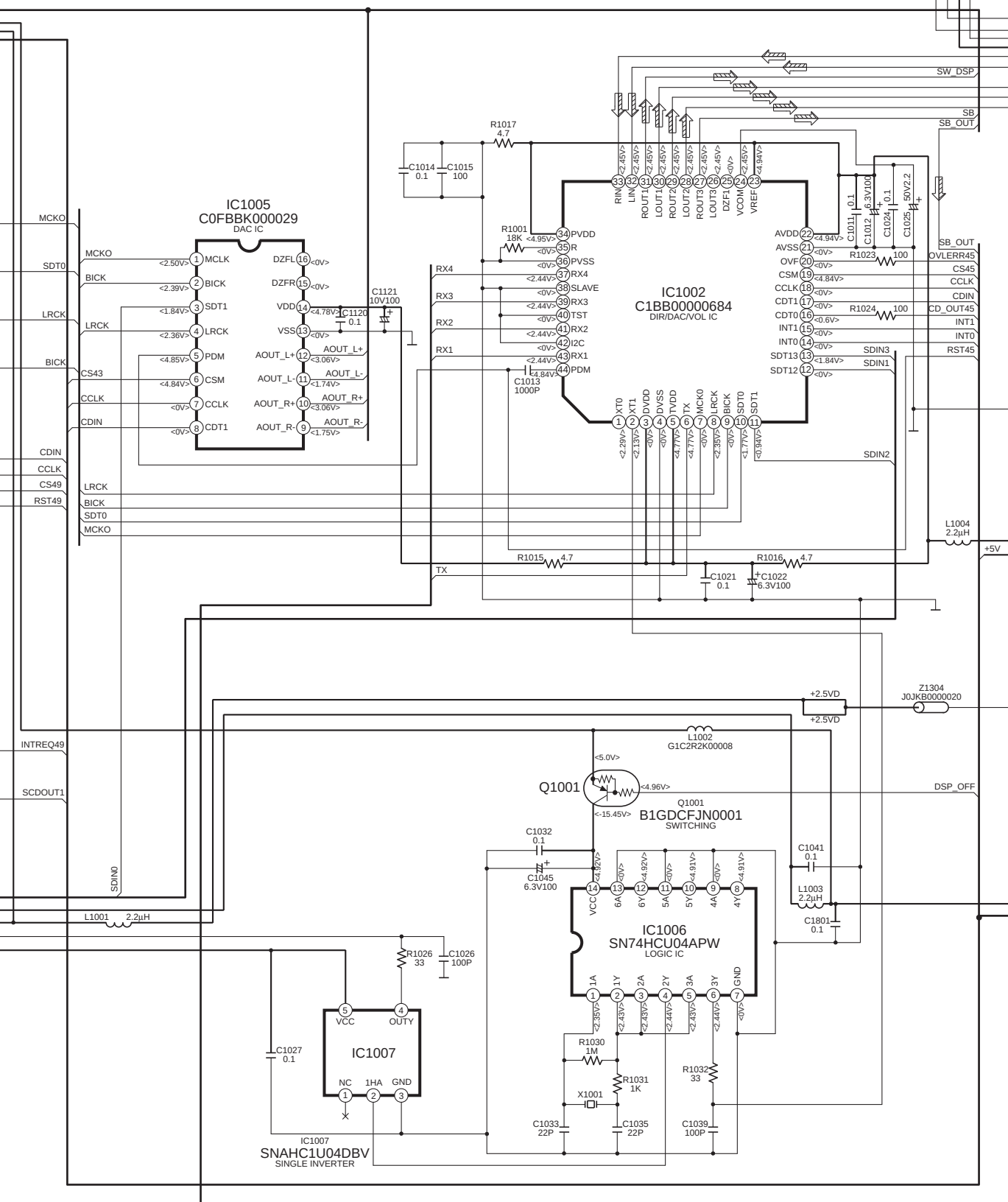
The schematic diagram illustrates the internal circuitry of the IC1001 C2HBZZ000008 AC3/DTS DECODER and its connections to external logic ICs and components.

IC1001 C2HBZZ000008 AC3/DTS DECODER: This central IC features multiple input and output pins. Key inputs include SCCLK, DATA7 through DATA0, and various control signals like CS, SCDOUT, INTREQ, EXTMEM, ABOOT, and EXTMEM. It also includes pins for AGND, VA, FILTER, CLKSEL, CLKIN, and CMPREQ. The decoder is connected to a network of resistors (R1101 through R1122) and capacitors (C1101 through C1117) for signal conditioning and timing.

IC1003 SN74LV244PW LOGIC IC: This buffer IC is connected to the decoder's outputs, including SCCLK, DATA7 through DATA0, and control signals like CS, SCDOUT, INTREQ, EXTMEM, ABOOT, and EXTMEM. It is powered by VCC and GND, with a network of resistors (R1119 through R1122) and capacitors (C1118 through C1125) for signal conditioning and timing.

IC1004 SN74HCT244PW LOGIC IC: This buffer IC is connected to the decoder's outputs, including SCCLK, DATA7 through DATA0, and control signals like CS, SCDOUT, INTREQ, EXTMEM, ABOOT, and EXTMEM. It is powered by VCC and GND, with a network of resistors (R1119 through R1122) and capacitors (C1118 through C1125) for signal conditioning and timing.

Peripheral Components: The circuit includes various passive components such as resistors (R1101 through R1122) and capacitors (C1101 through C1125) for signal conditioning and timing. It also features a network of inductors (L1301 through L1307) and capacitors (C1301 through C1307) for signal conditioning and timing.



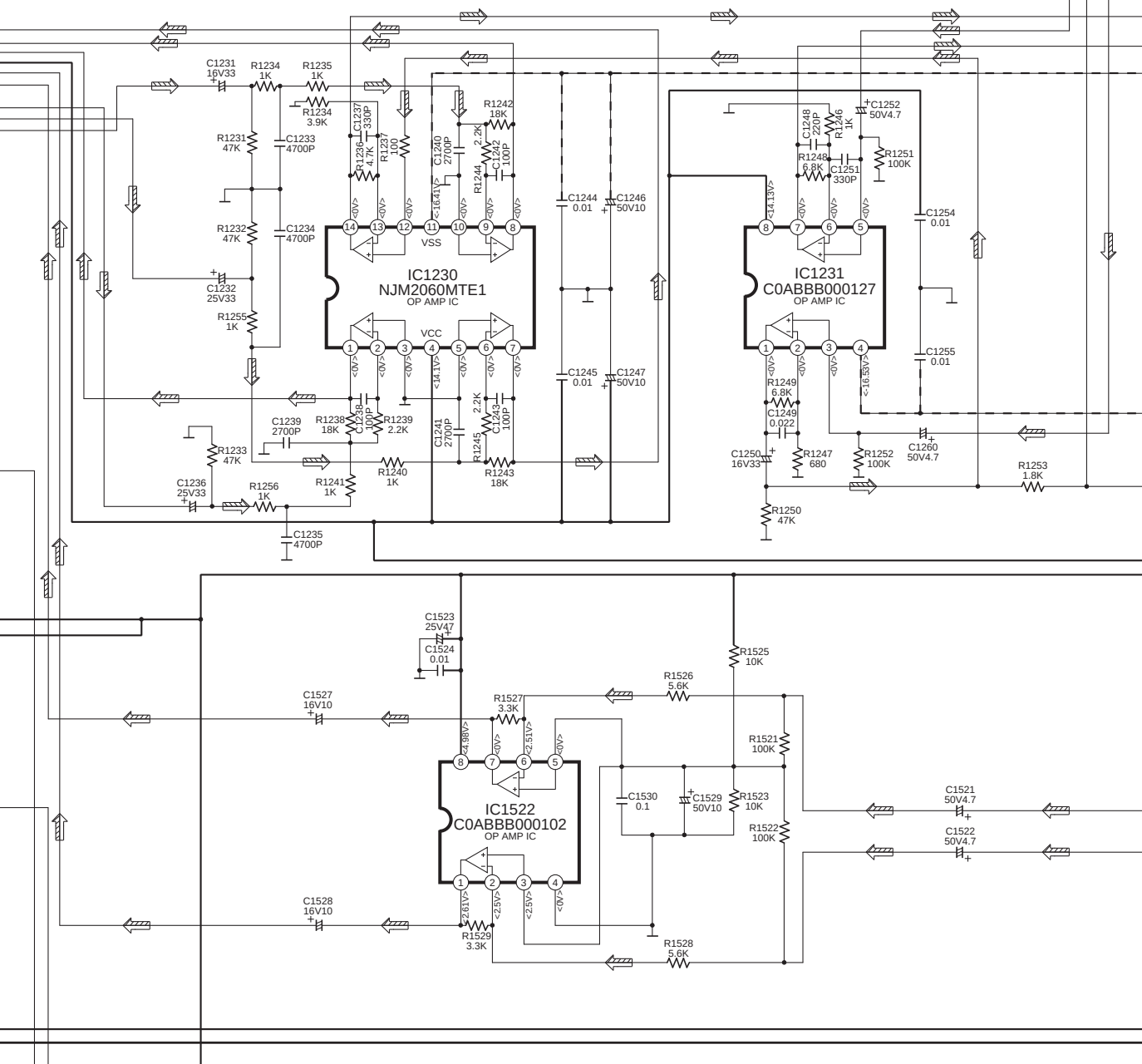
A

DIGITAL CIRCUIT

- - - : -B SIGNAL LINE

— : +B SIGNAL LINE

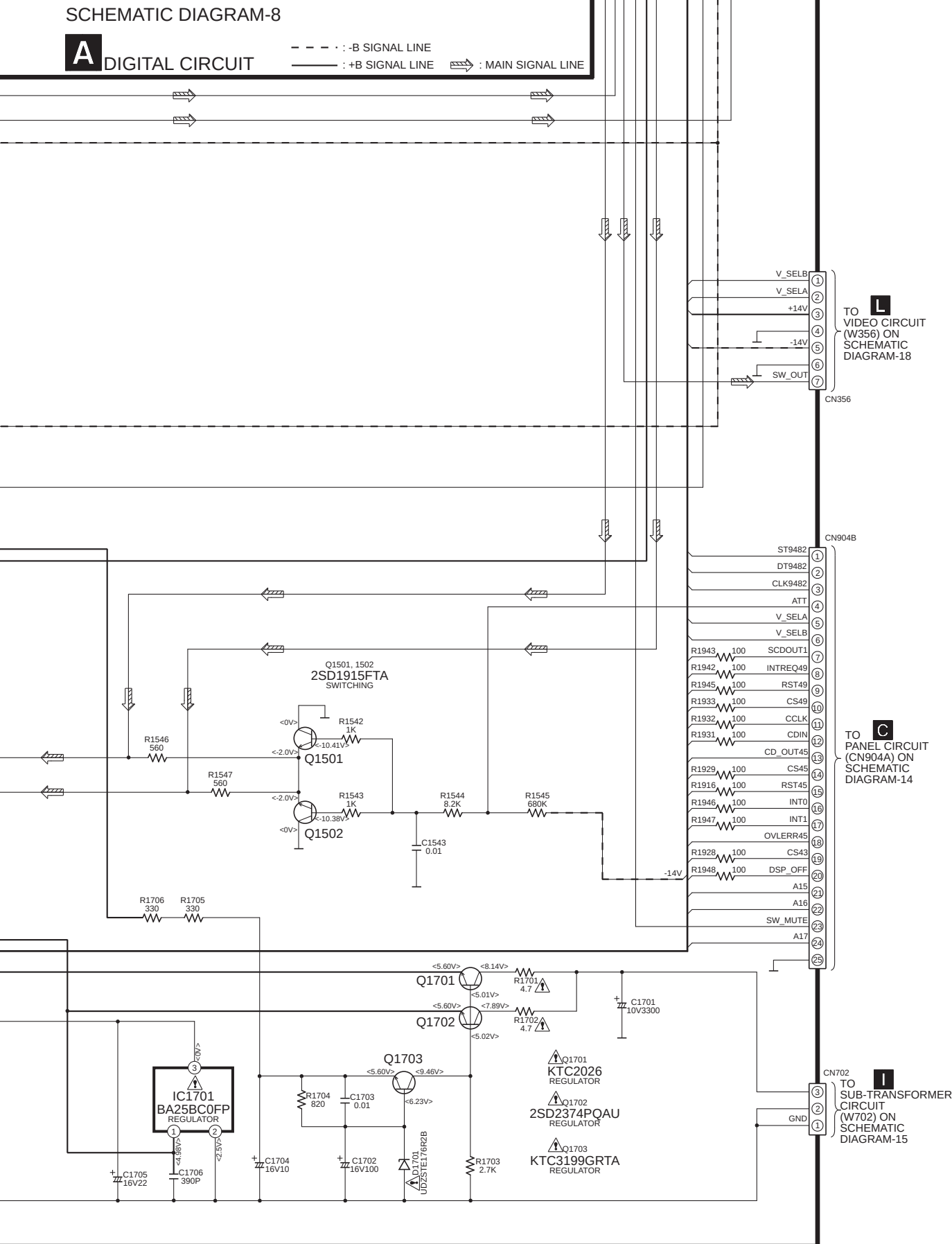
⇒ : MAIN SIGNAL LINE

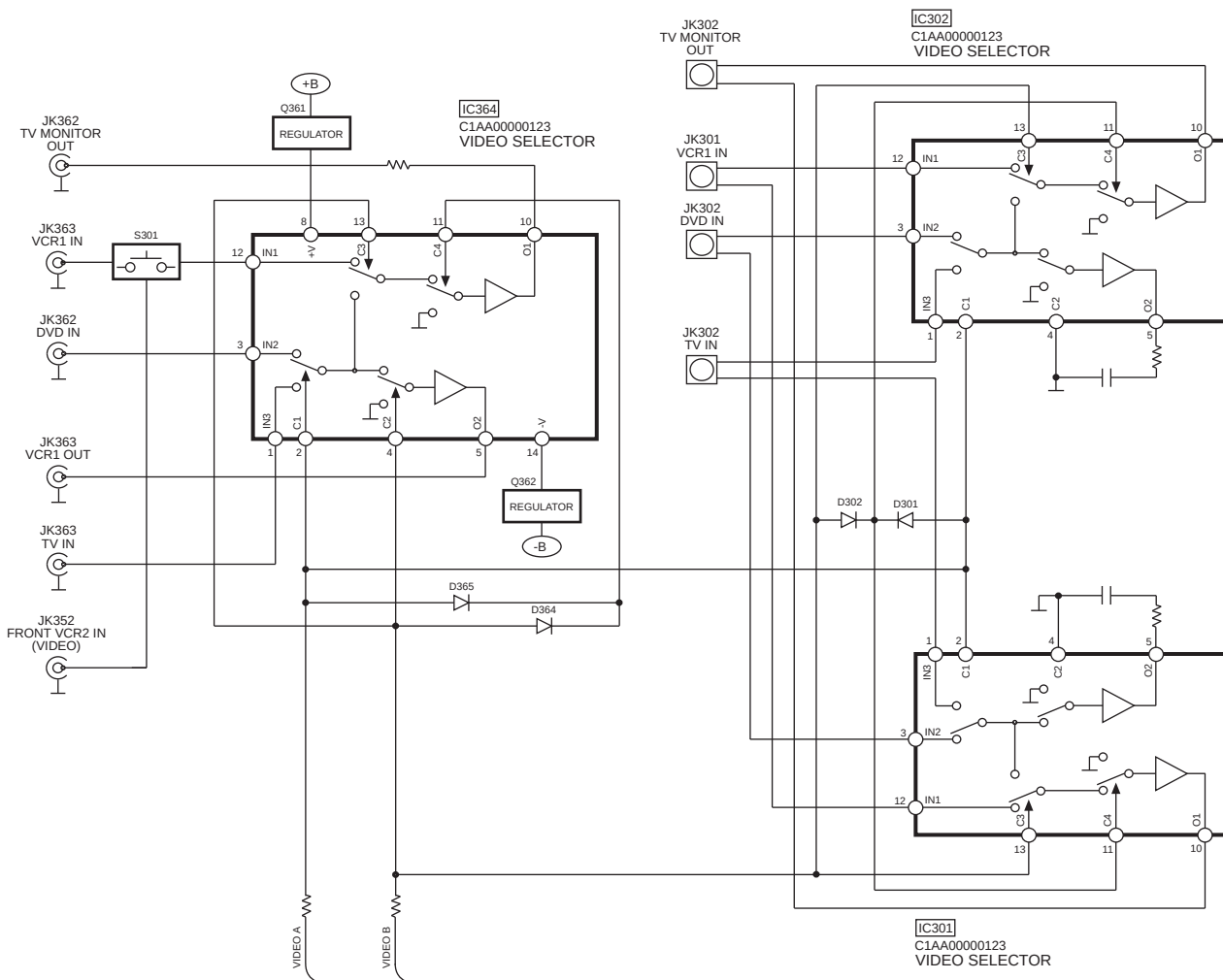
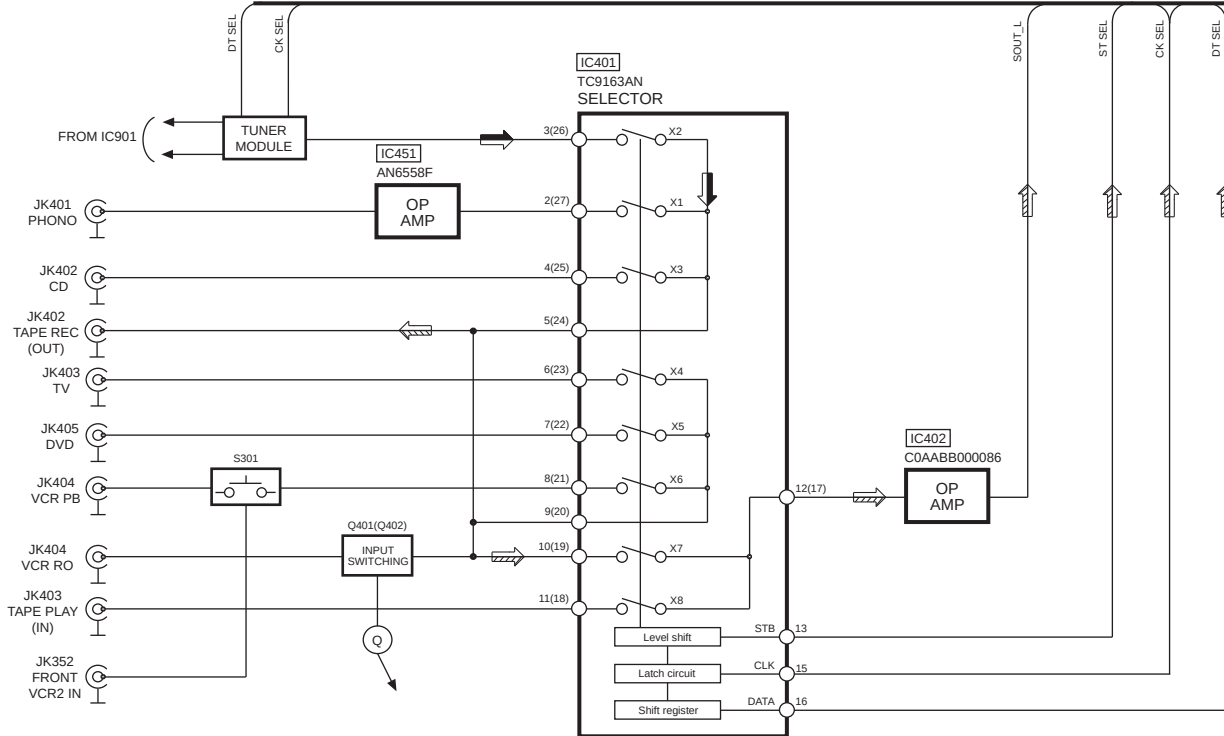


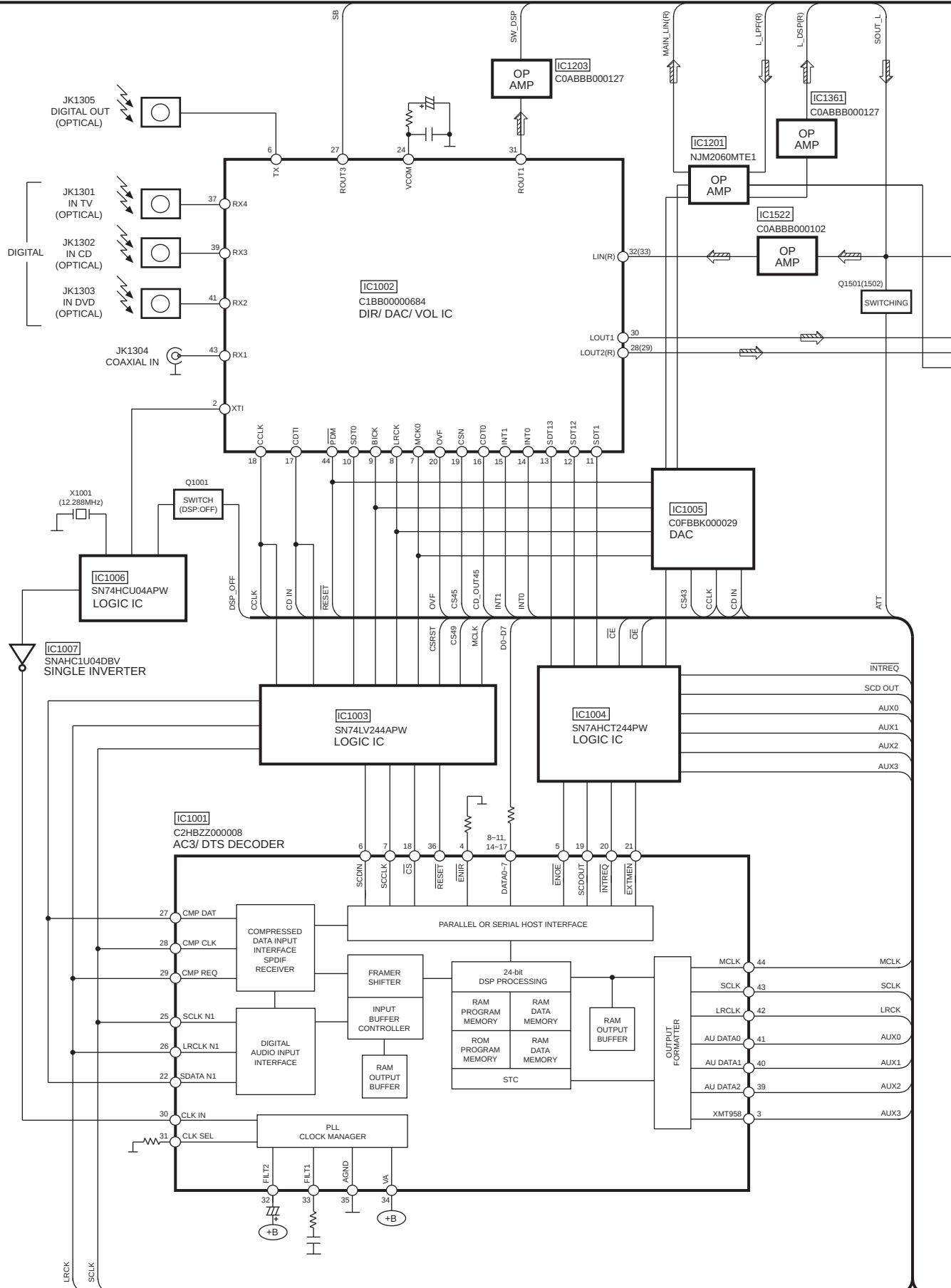
SCHEMATIC DIAGRAM-8

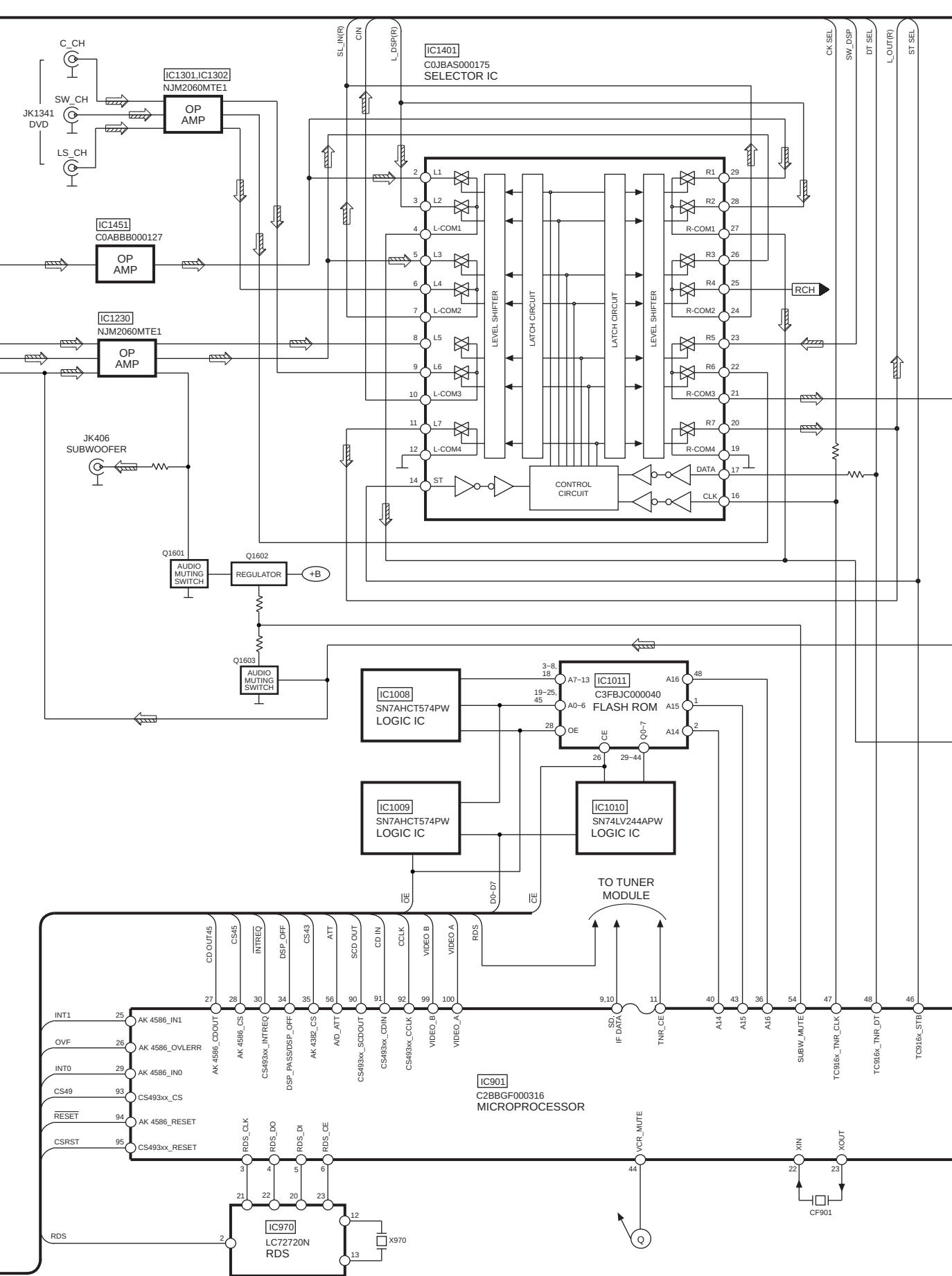
A DIGITAL CIRCUIT

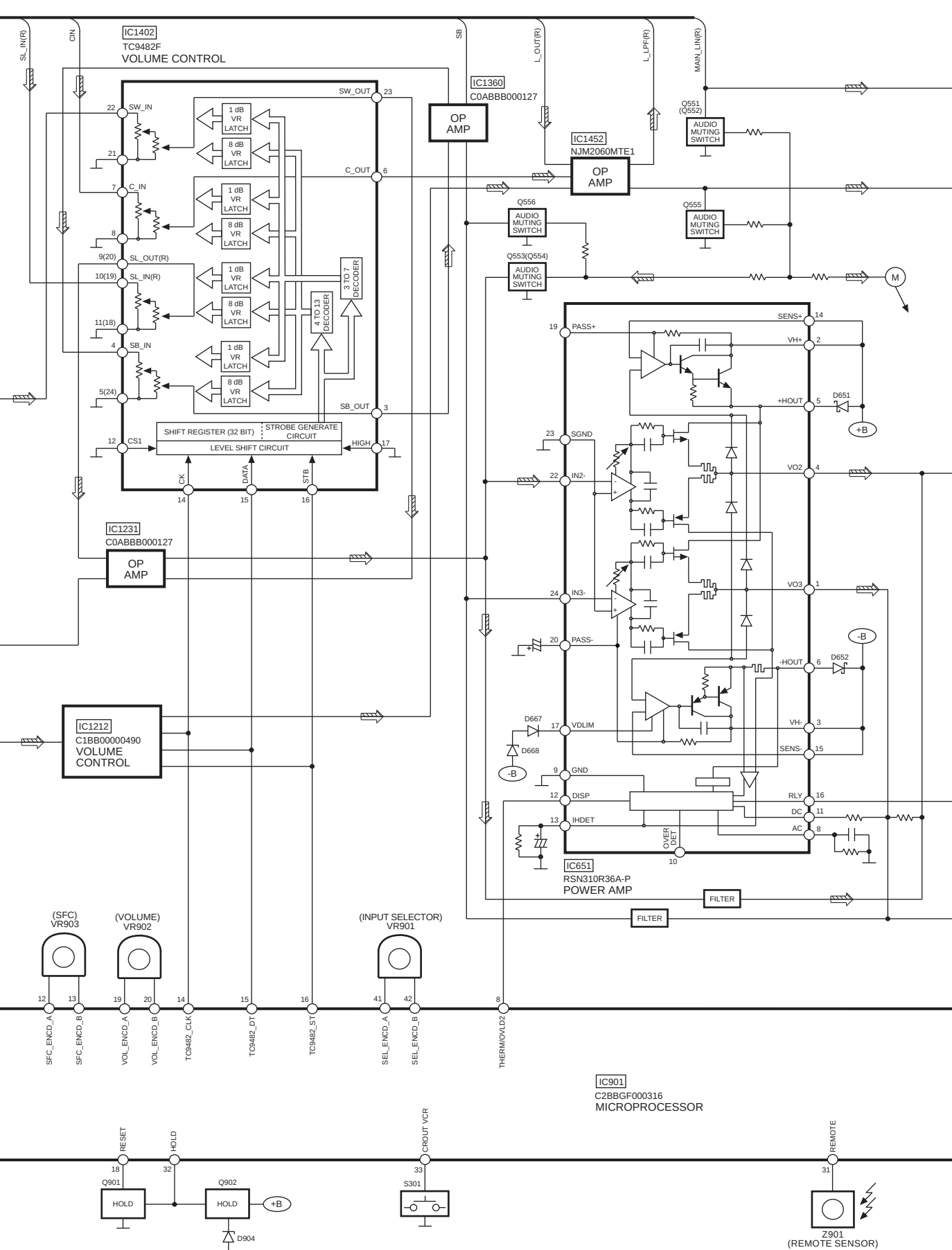
--- : -B SIGNAL LINE
 — : +B SIGNAL LINE ➡ : MAIN SIGNAL LINE

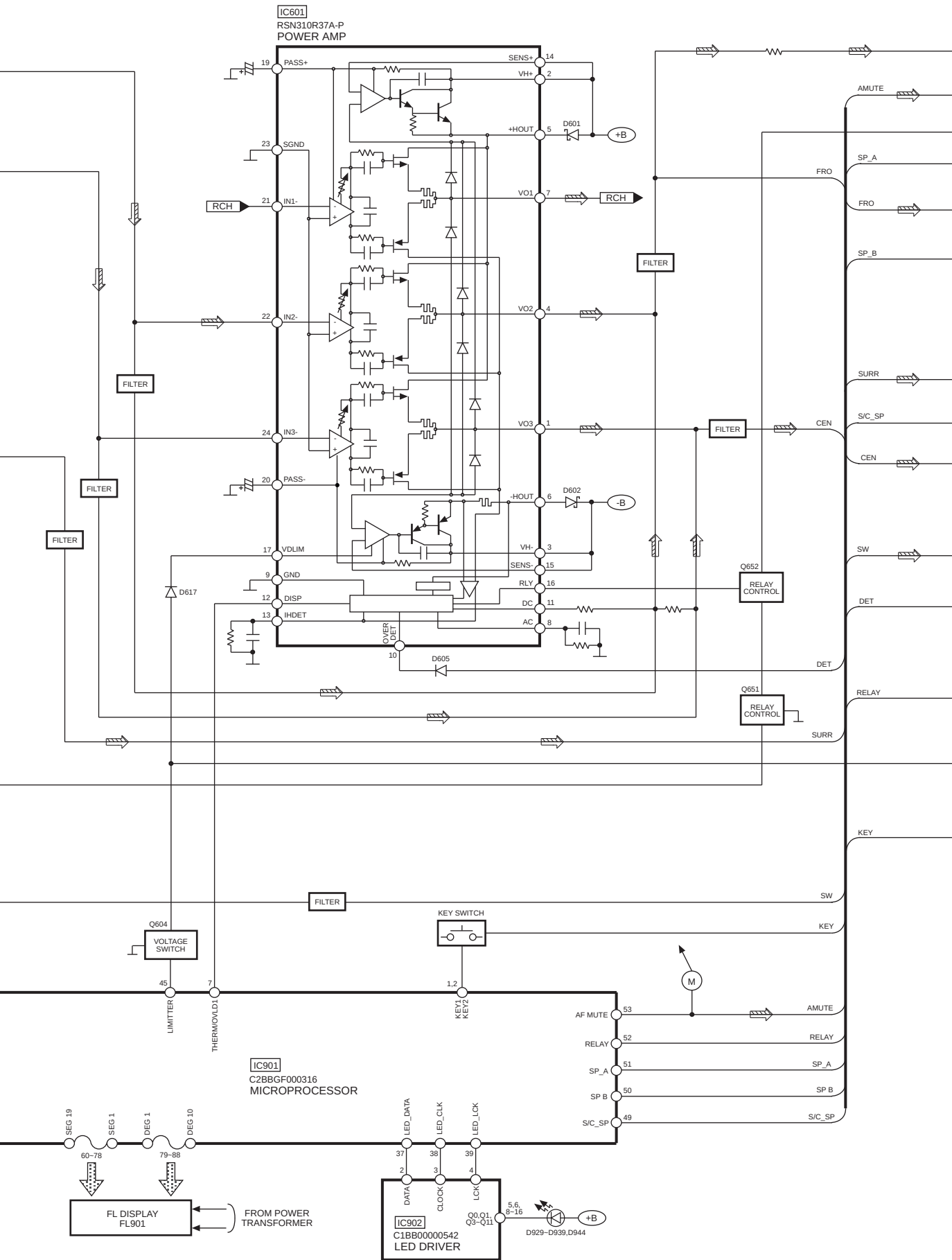


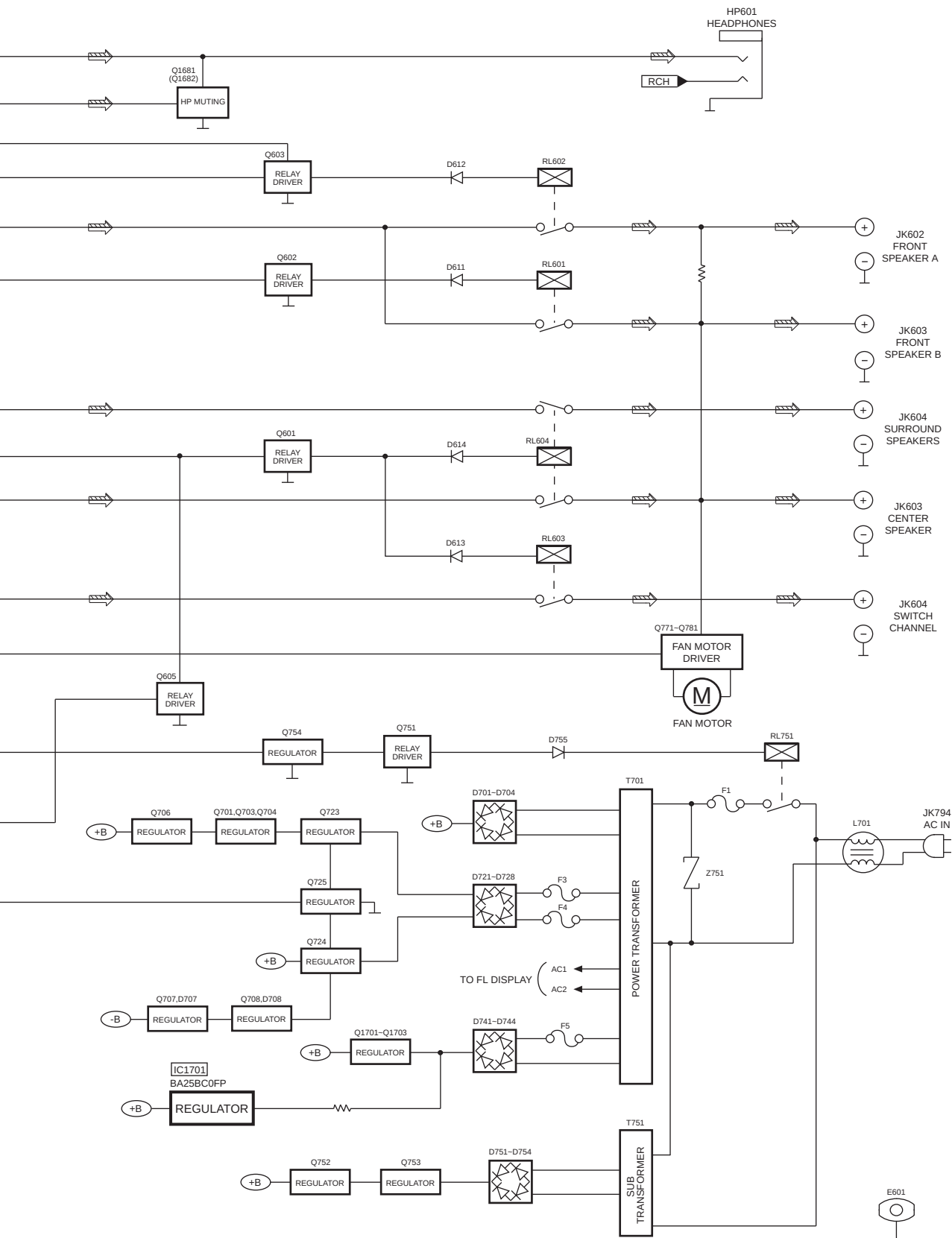




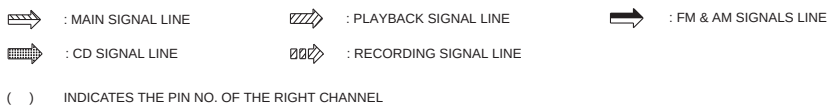








SIGNAL LINES



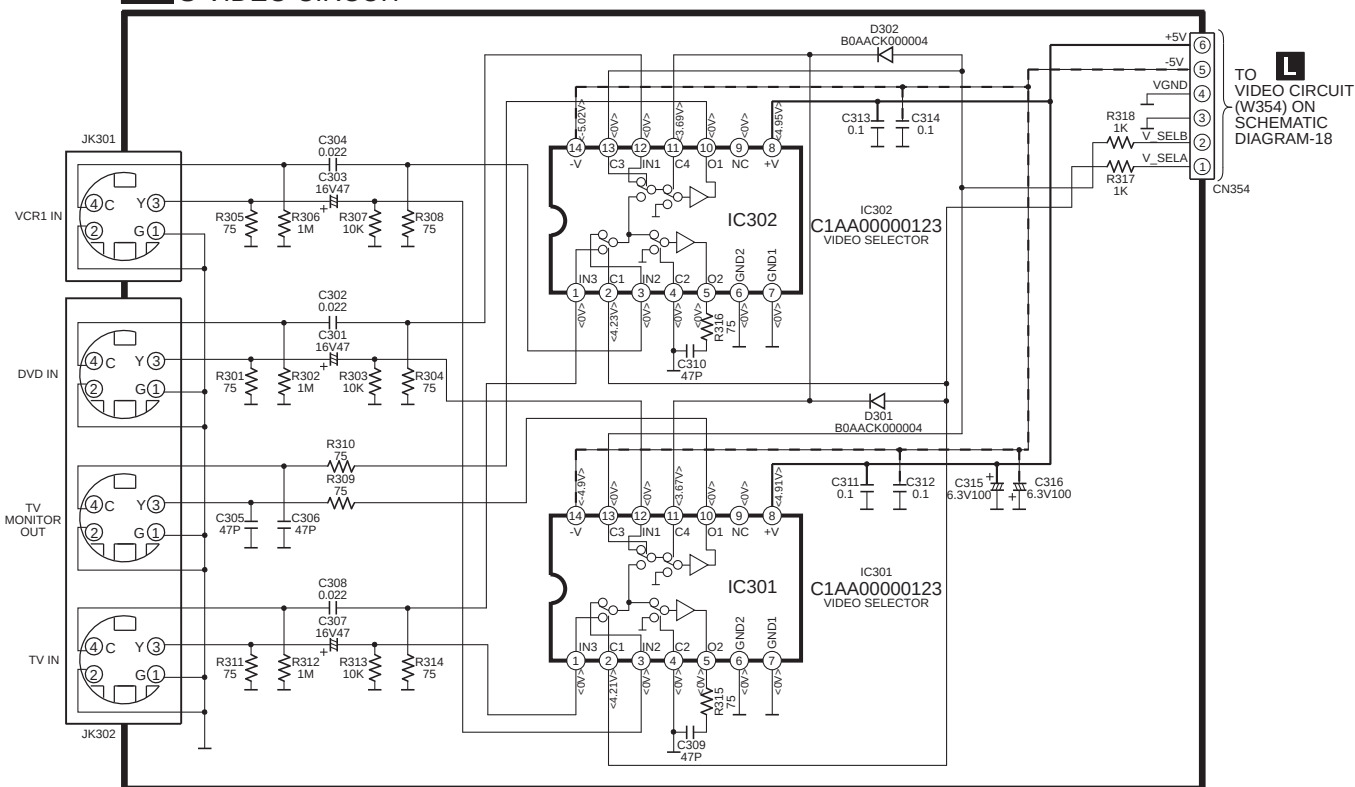
SCHEMATIC DIAGRAM-16

J

S-VIDEO CIRCUIT

— : +B SIGNAL LINE

- - - : -B SIGNAL LINE

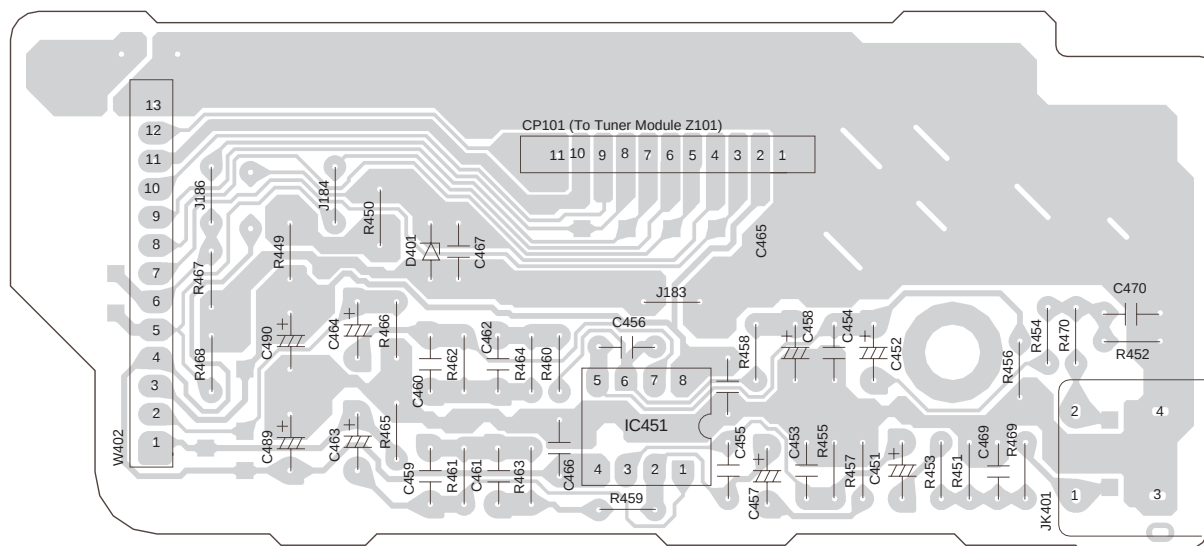


L

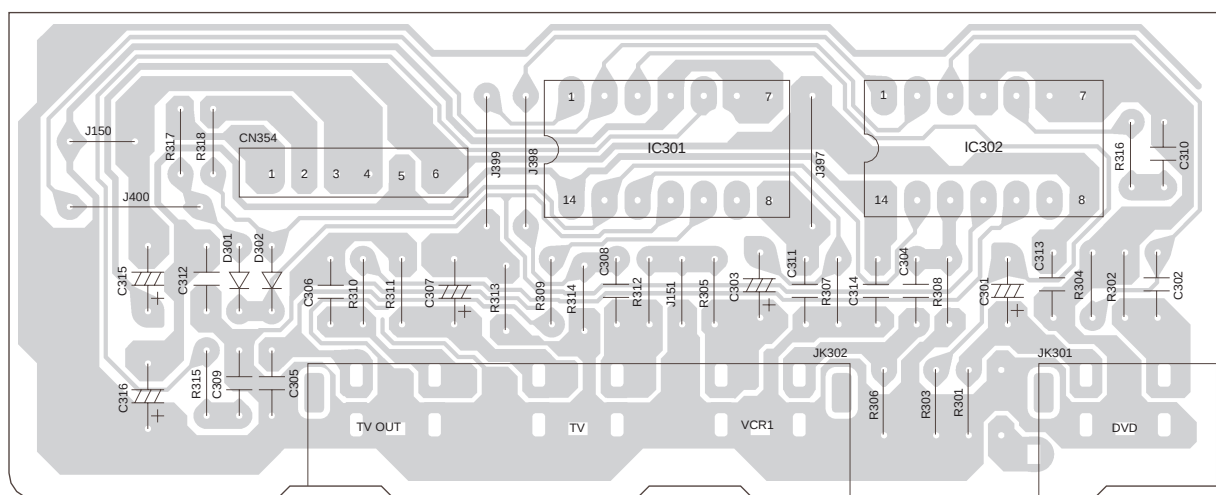
TO VIDEO CIRCUIT (W354) ON SCHEMATIC DIAGRAM-18

1

F PHONO EQ P.C.B (RE3259C-M...E/EG)
(REP3259D-M...EB)



J S-VIDEO P.C.B (REP3260B-S)

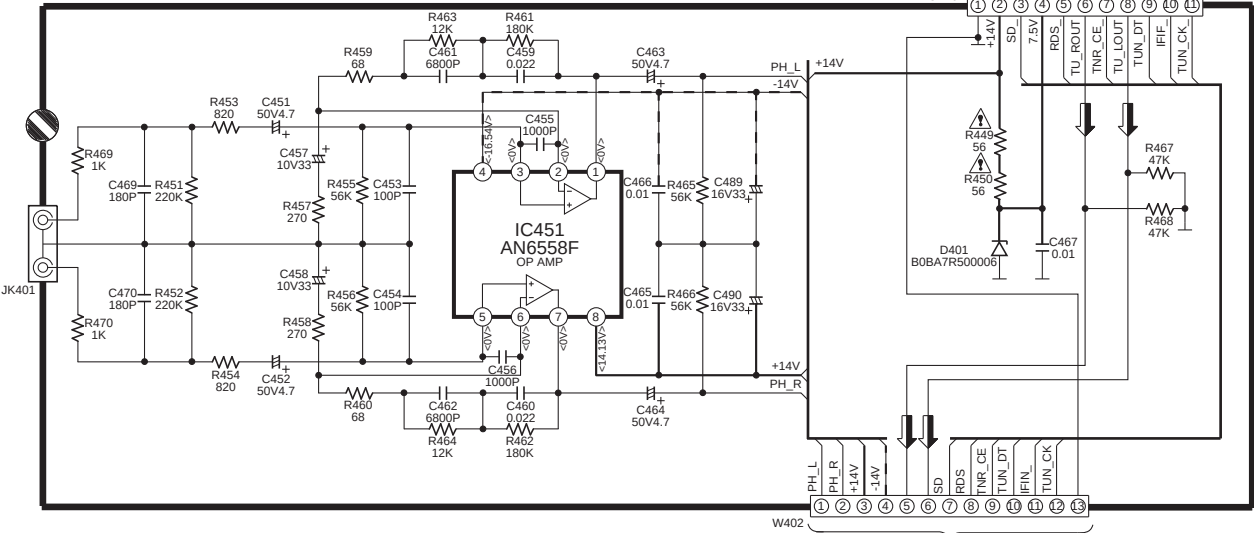


SCHEMATIC DIAGRAM - 15

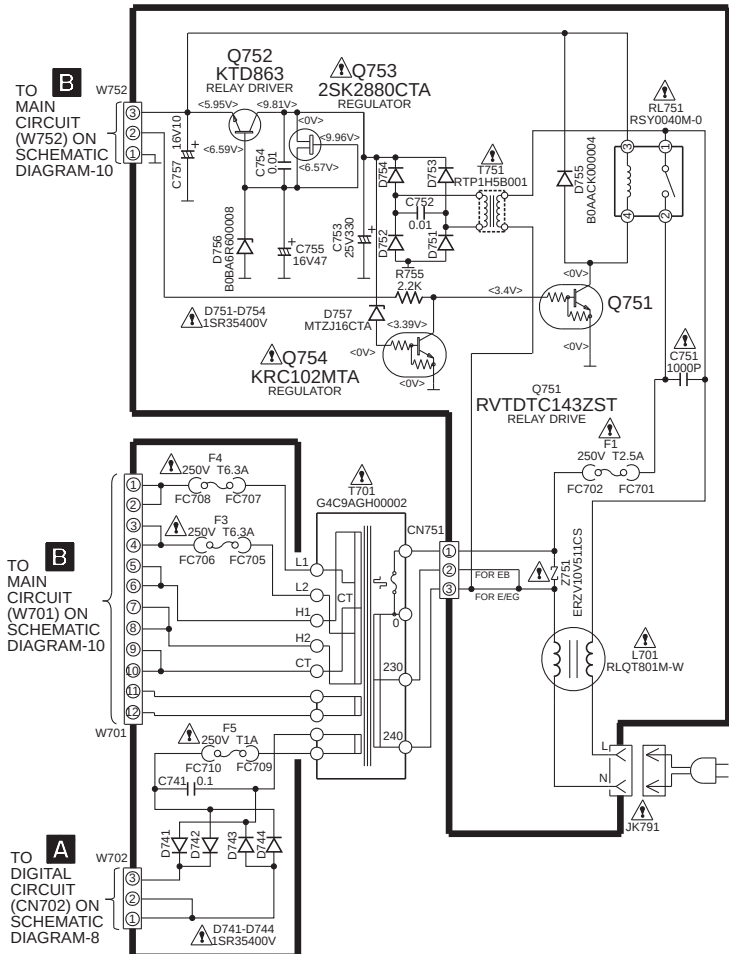
— : +B SIGNAL LINE - - : -B SIGNAL LINE ➡ : FM/AM SIGNAL LINE

TO
TUNER PACK
Z101 (RAN0002EM)

F PHONO EQ CIRCUIT

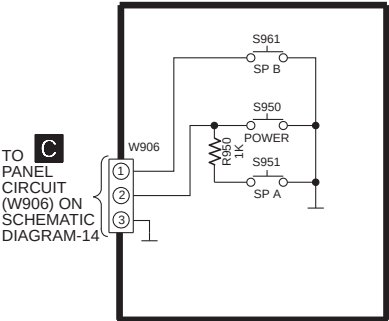


H TRANSFORMER CIRCUIT



TO
MAIN CIRCUIT
(CN401/402) ON
SCHEMATIC
DIAGRAM-9

G SWITCH CIRCUIT



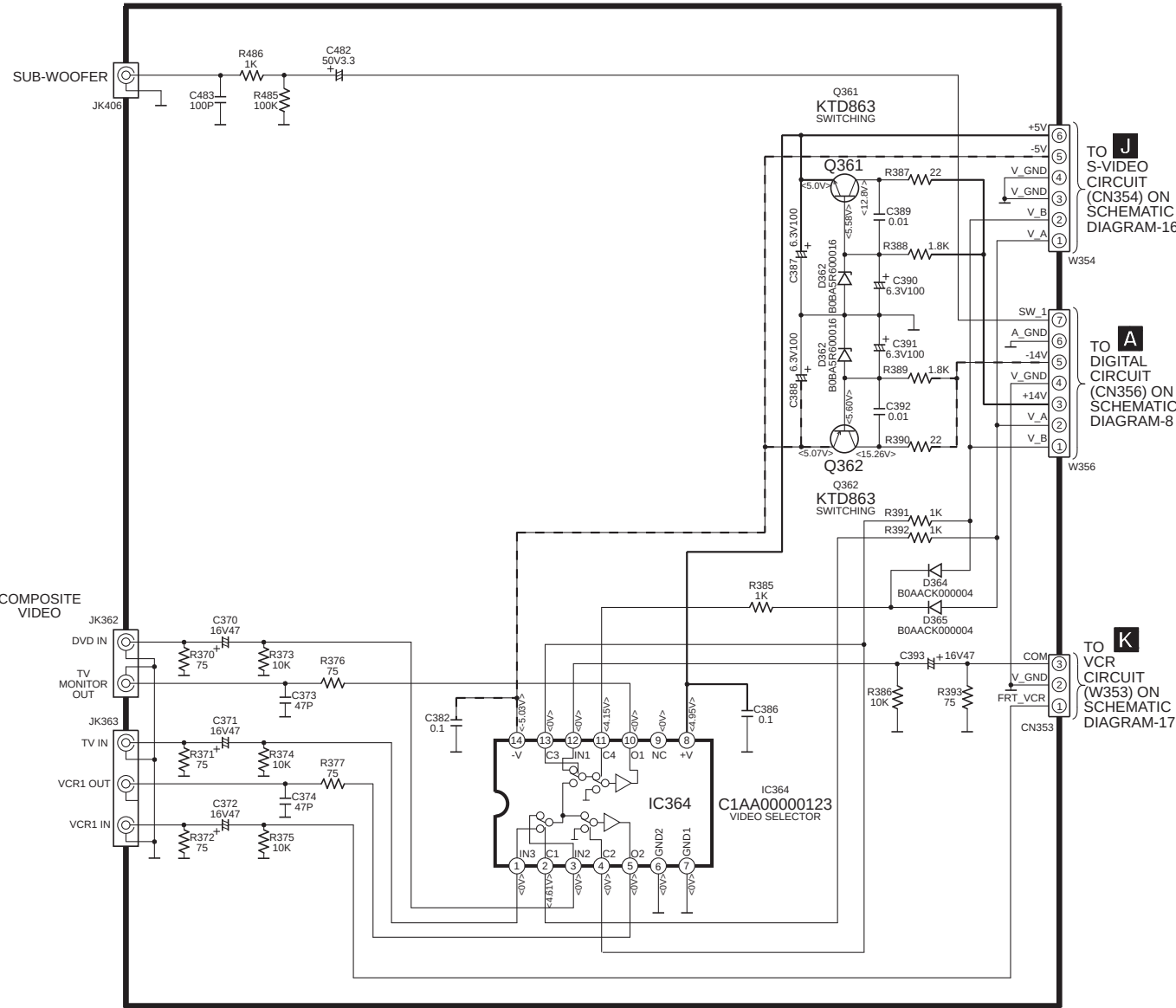
I SUB-TRANSFORMER CIRCUIT

TO
DIGITAL
CIRCUIT
(CN702) ON
SCHEMATIC
DIAGRAM-8

SCHEMATIC DIAGRAM-18

L VIDEO CIRCUIT

— : +B SIGNAL LINE
- - - : -B SIGNAL LINE

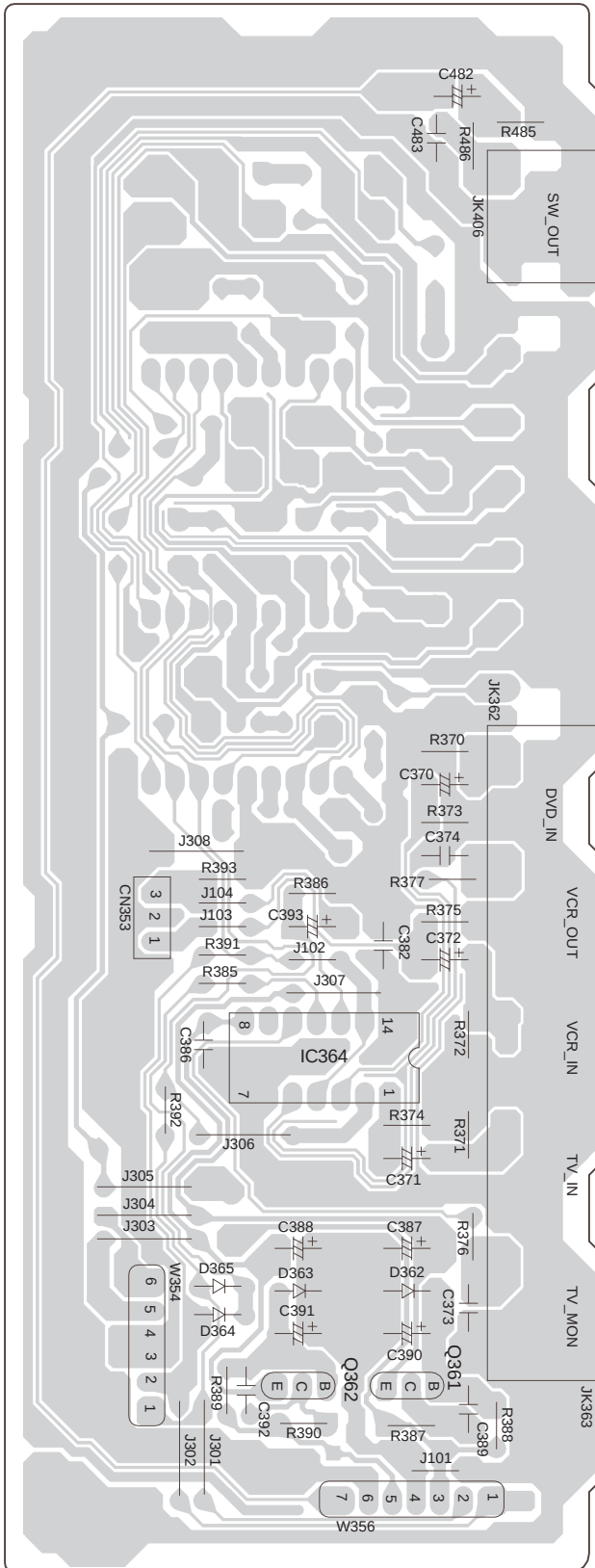


A B C D E F G

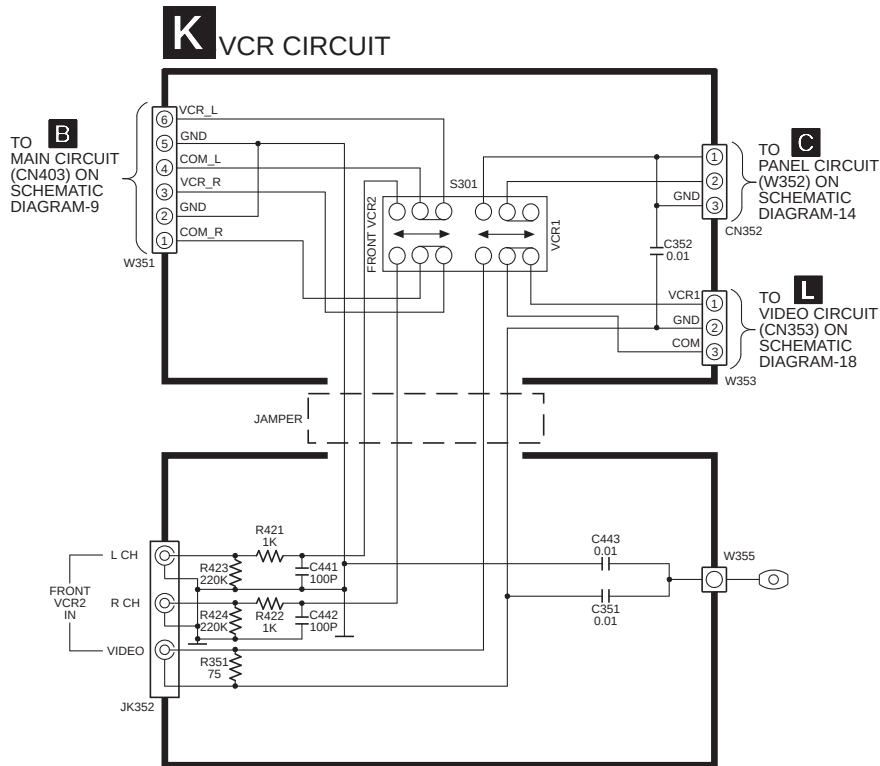
1
2
3
4
5
6
7
8
9



VIDEO P.C.B (REP3262B-T)



SCHEMATIC DIAGRAM-17



A B C D E F G

1

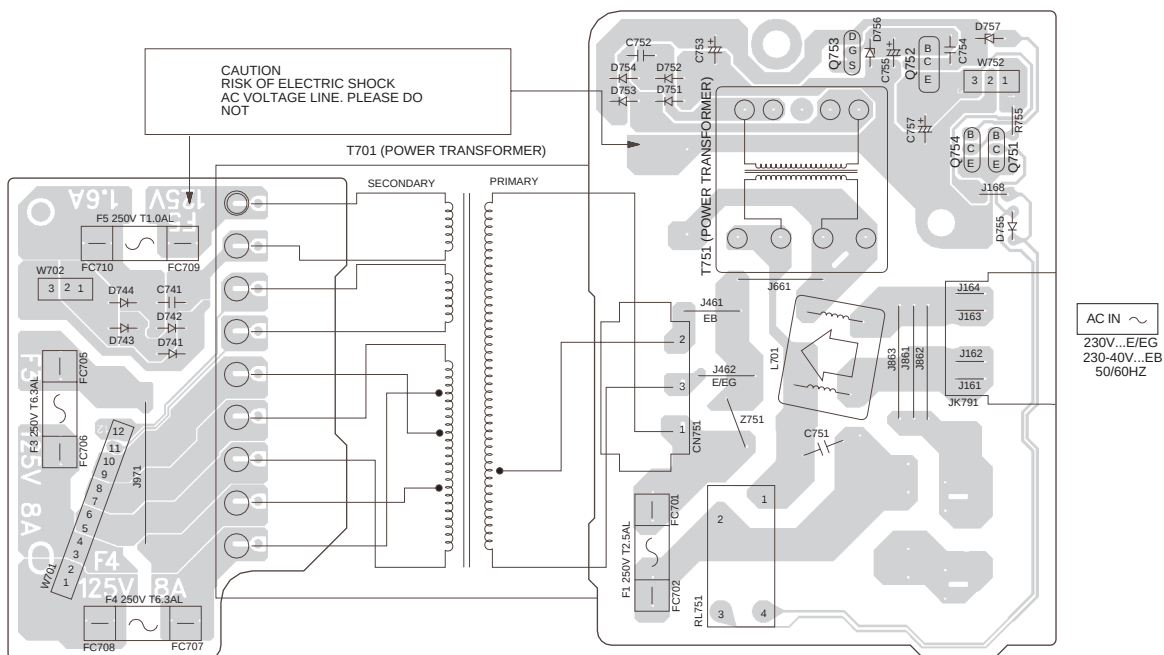
2

3

4

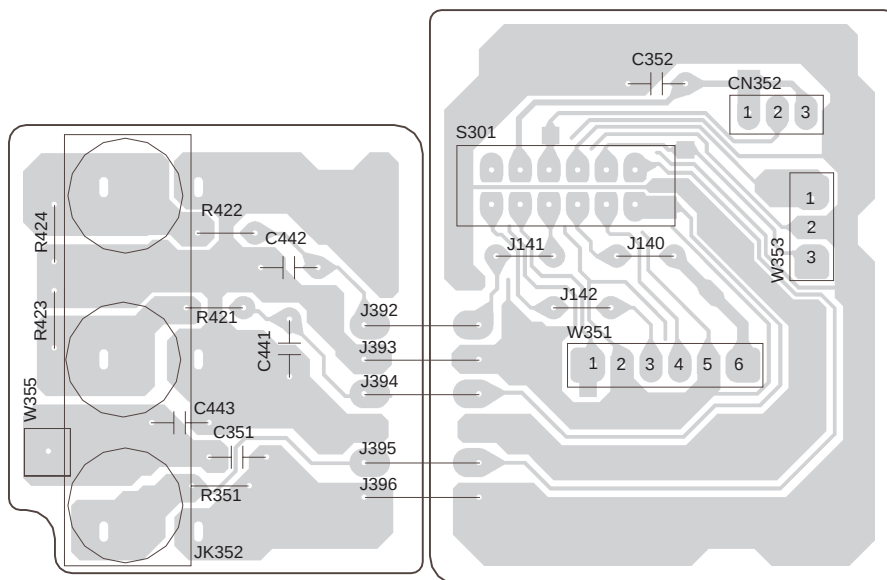
5

H TRANSFORMER P.C.B (REP3259C-M...E/EG) (REP3259D-M...EB)



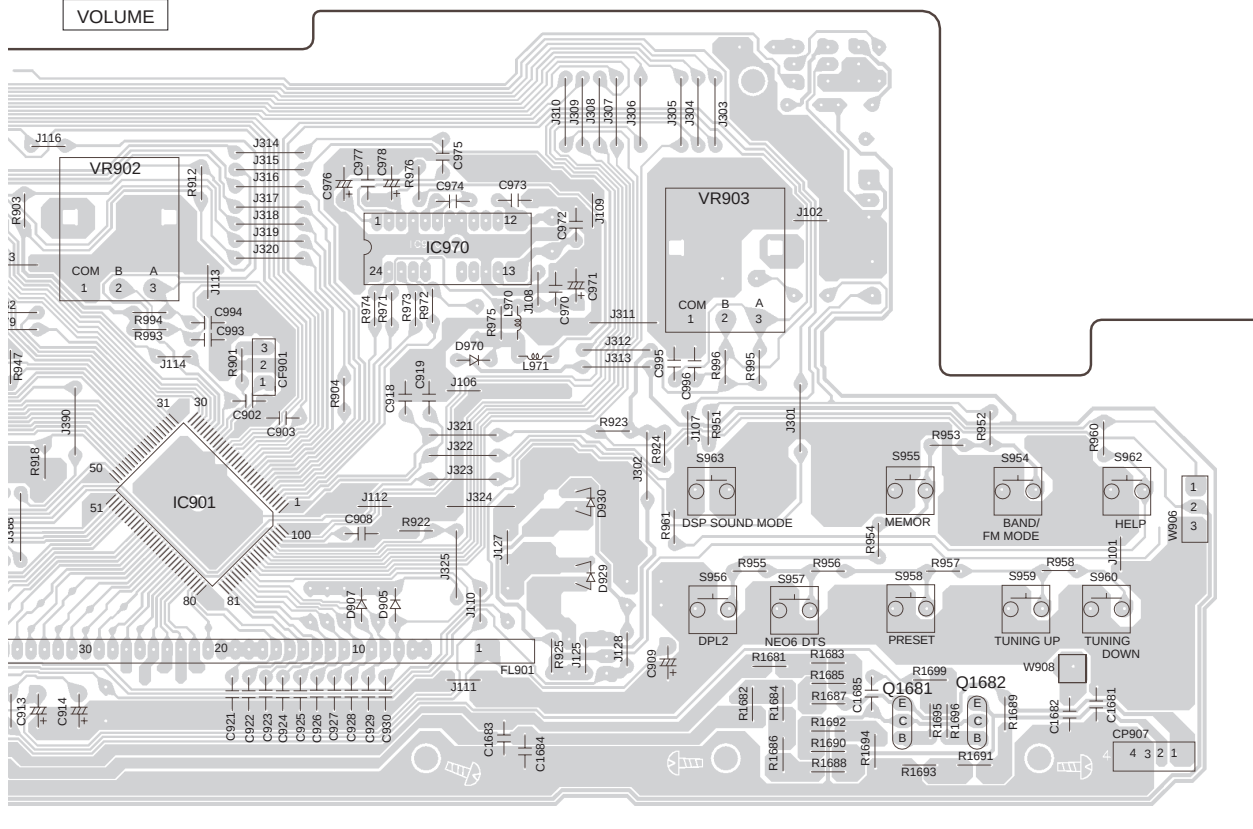
I SUB-TRANSFORMER P.C.B (REP3259C-M...E/EG) (REP3259D-M...EB)

K VCR P.C.B REP32560B-S)



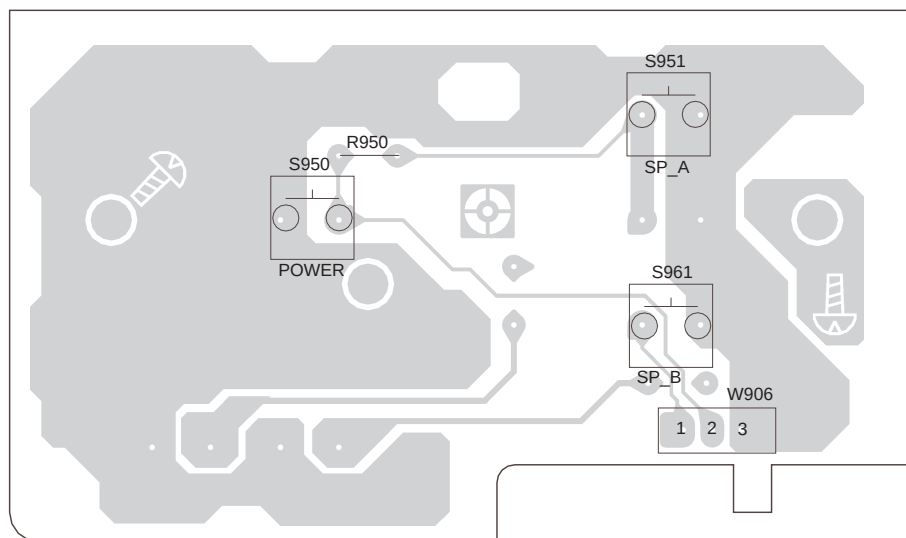
G H I J K L M

VOLUME



G

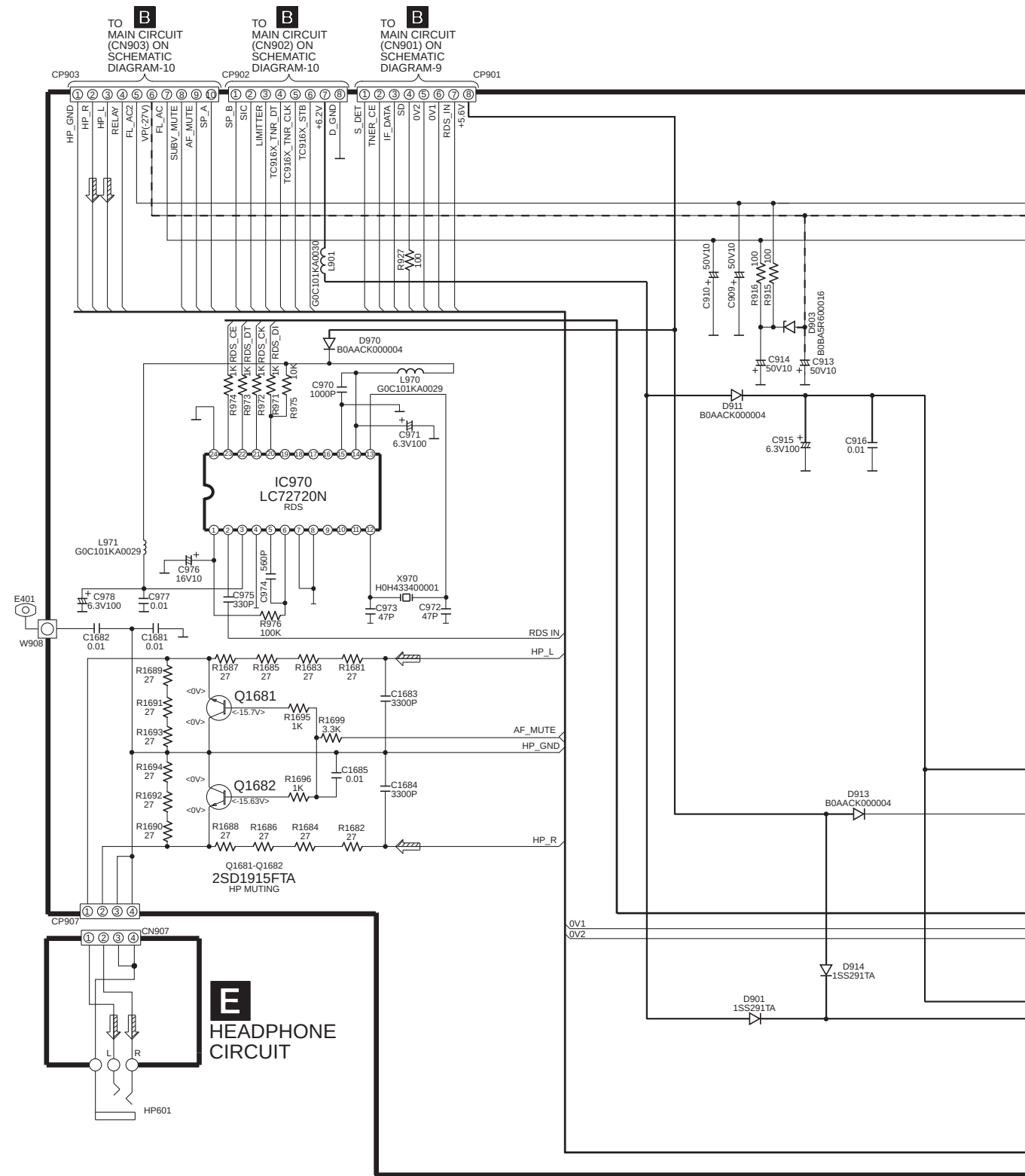
SWITCH P.C.B (REP3260B-S)



SCHEMATIC DIAGRAM - 12

C PANEL CIRCUIT

— : +B SIGNAL LINE - - : -B SIGNAL LINE ➡ : MAIN SIGNAL LINE

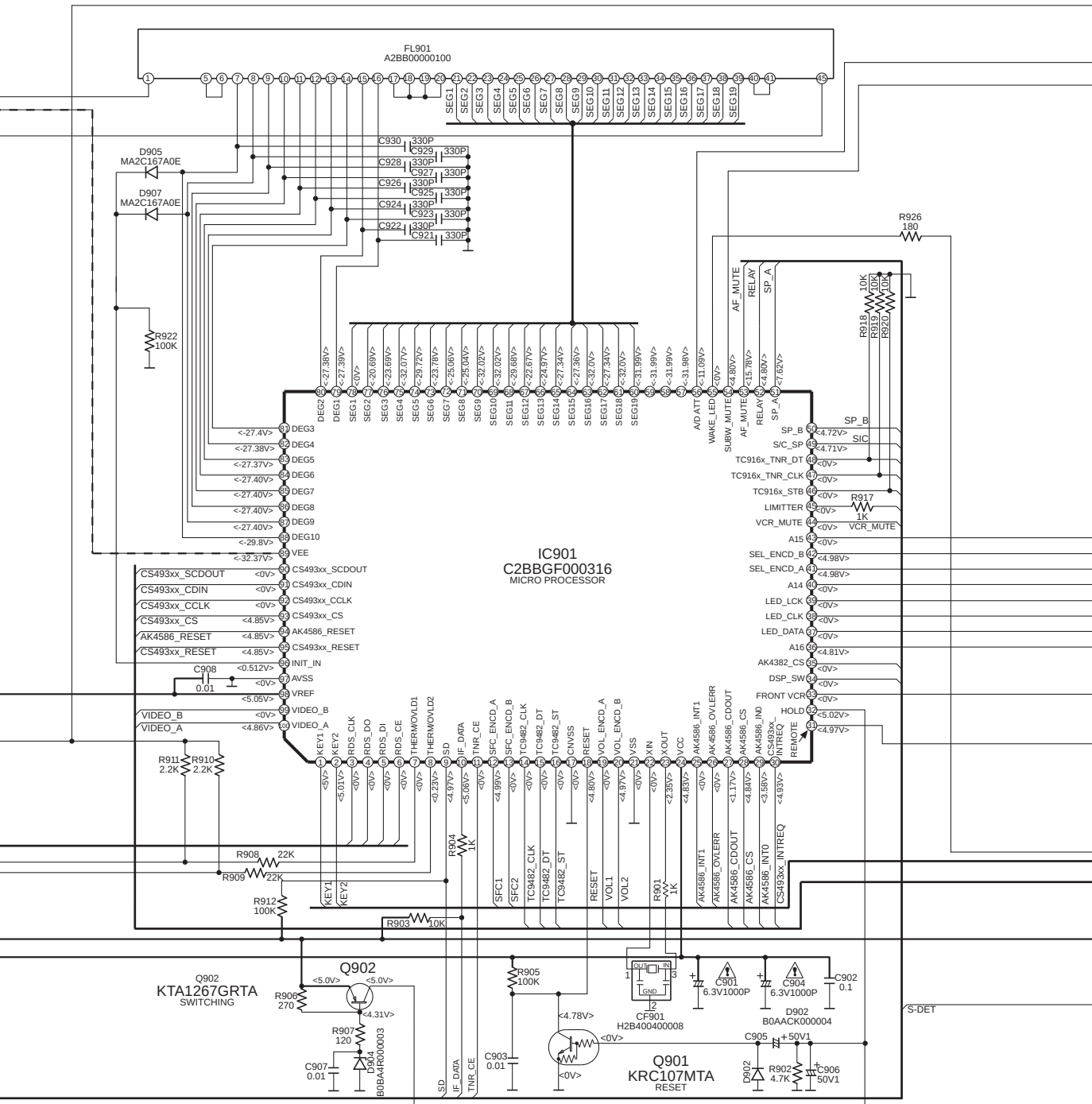


SCHEMATIC DIAGRAM - 13



PANEL CIRCUIT

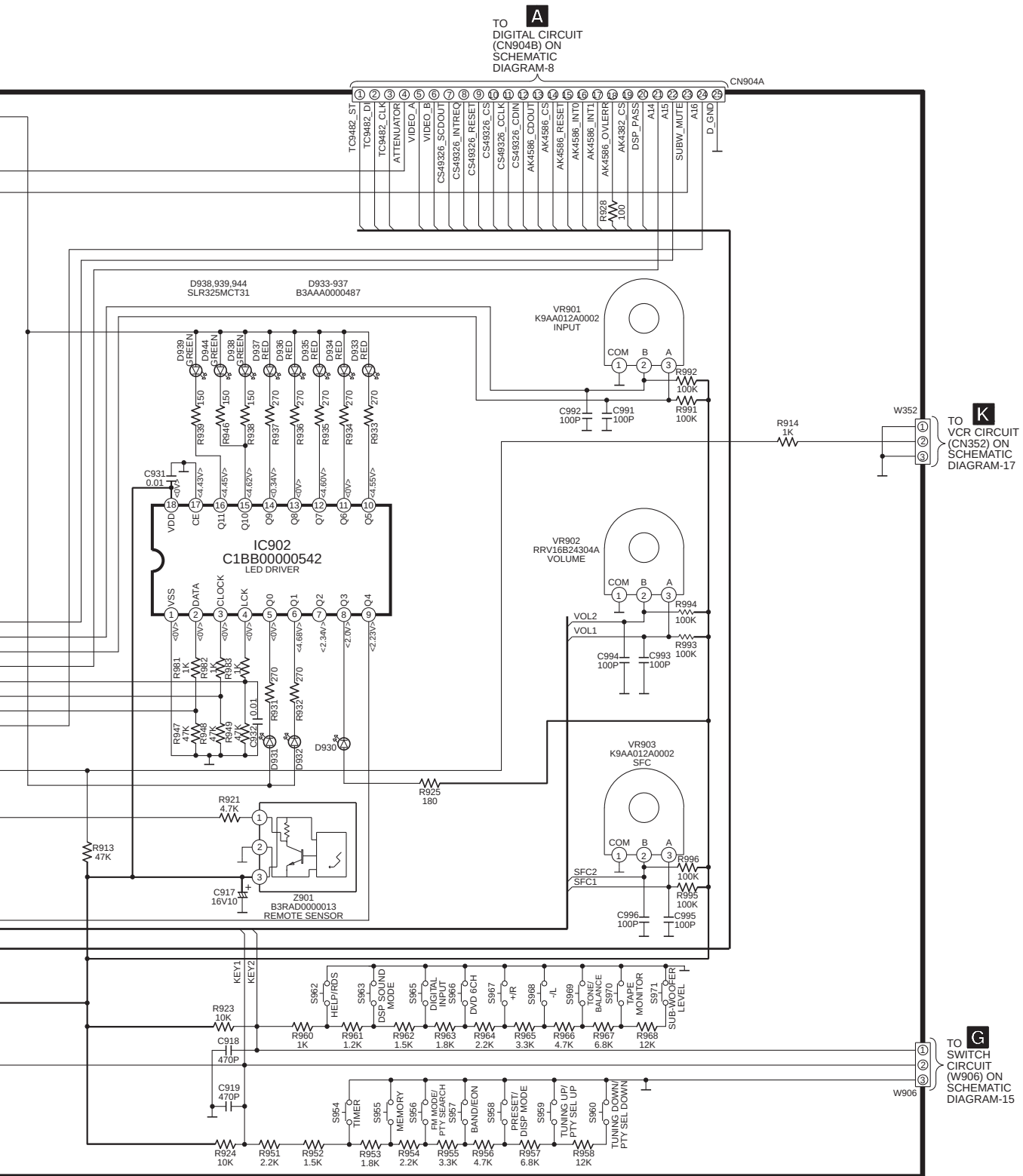
— : +B SIGNAL LINE - - - : -B SIGNAL LINE



SCHEMATIC DIAGRAM - 14

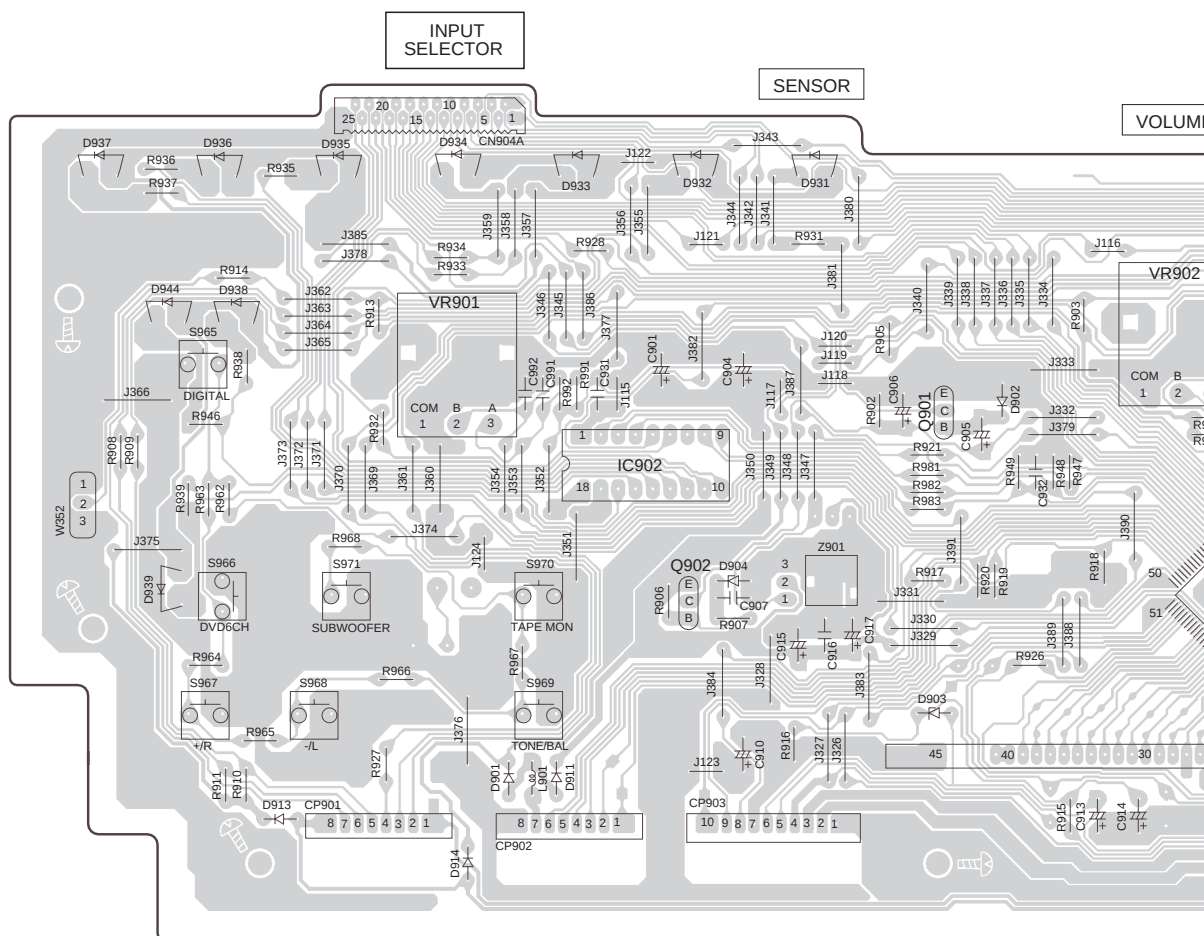
C PANEL CIRCUIT

— : +B SIGNAL LINE

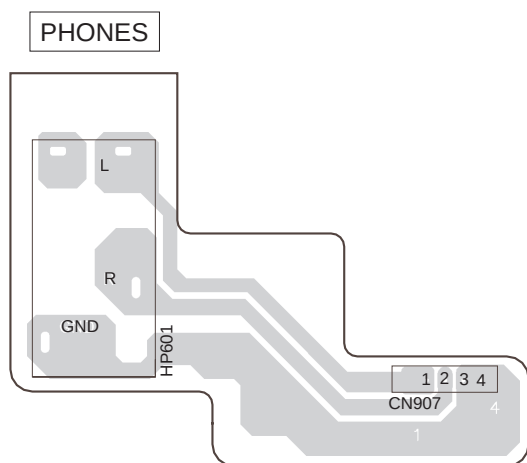


A B C D E F G

C PANEL P.C.B (REP3260B-S)



E HEADPHONE P.C.B (REP3260B-S)



SCHEMATIC DIAGRAM - 9

— : +B SIGNAL LINE

- - : -B SIGNAL LINE

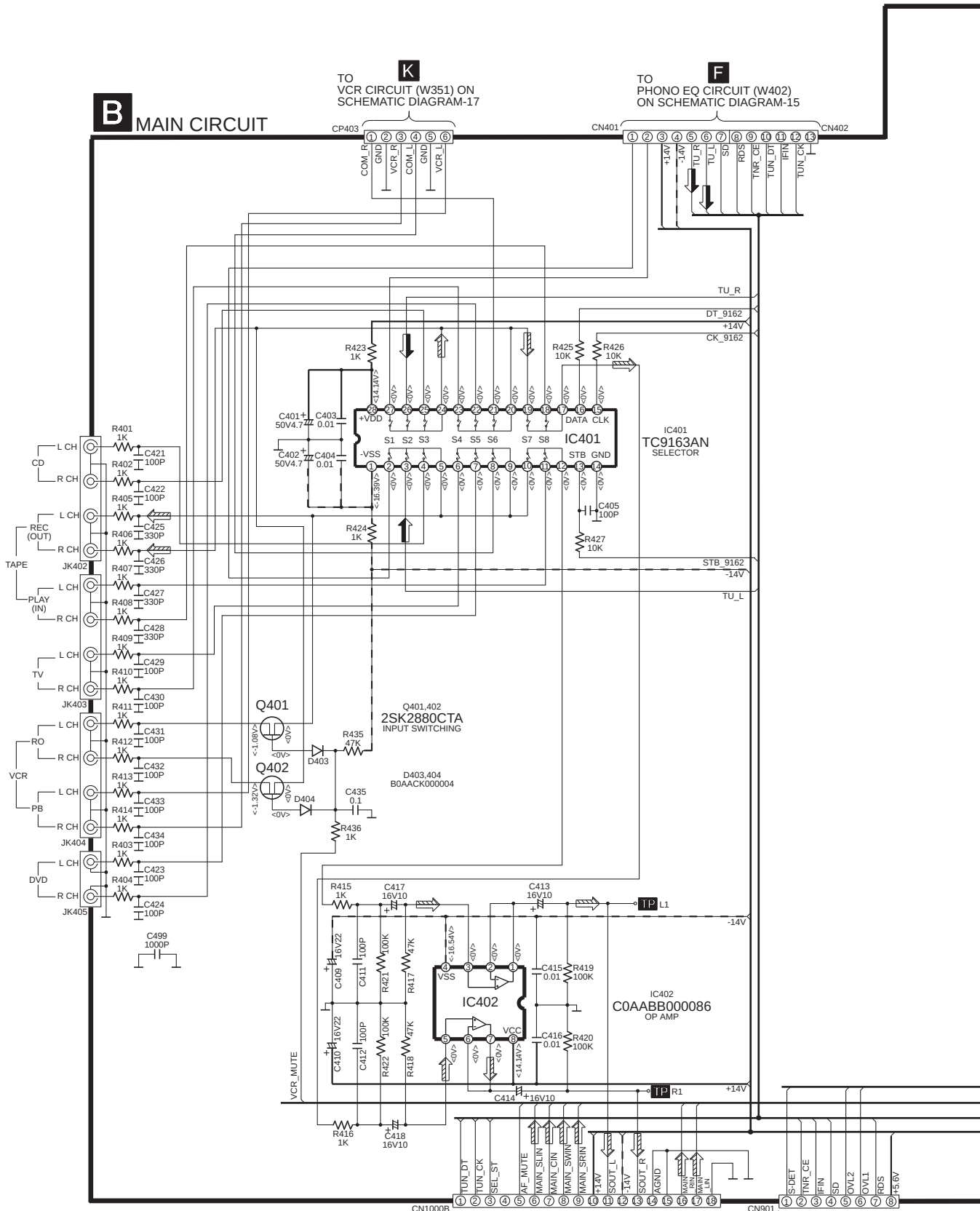
➡ : FM/AM SIGNAL LINE

➡ : MAIN SIGNAL LINE

B MAIN CIRCUIT

TO VCR CIRCUIT (W351) ON SCHEMATIC DIAGRAM-17

TO PHONO EQ CIRCUIT (W402) ON SCHEMATIC DIAGRAM-15



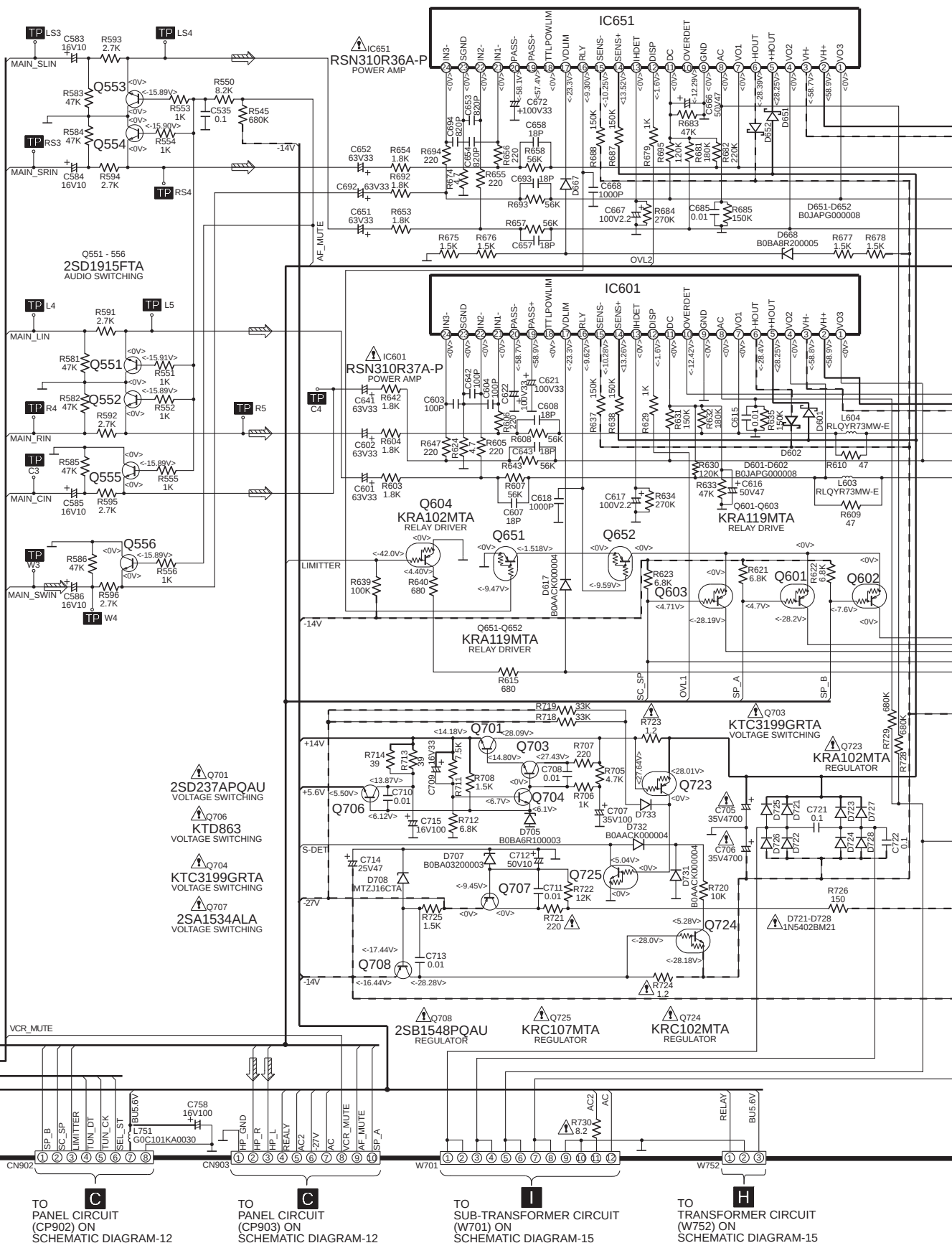
TO DIGITAL CIRCUIT (CN1000A) ON SCHEMATIC DIAGRAM-4

TO PANEL CIRCUIT (CP901) ON SCHEMATIC DIAGRAM-12

SCHEMATIC DIAGRAM - 10

— : +B SIGNAL LINE - - - : -B SIGNAL LINE ➡ : MAIN SIGNAL LINE

B MAIN CIRCUIT



SCHEMATIC DIAGRAM - 11

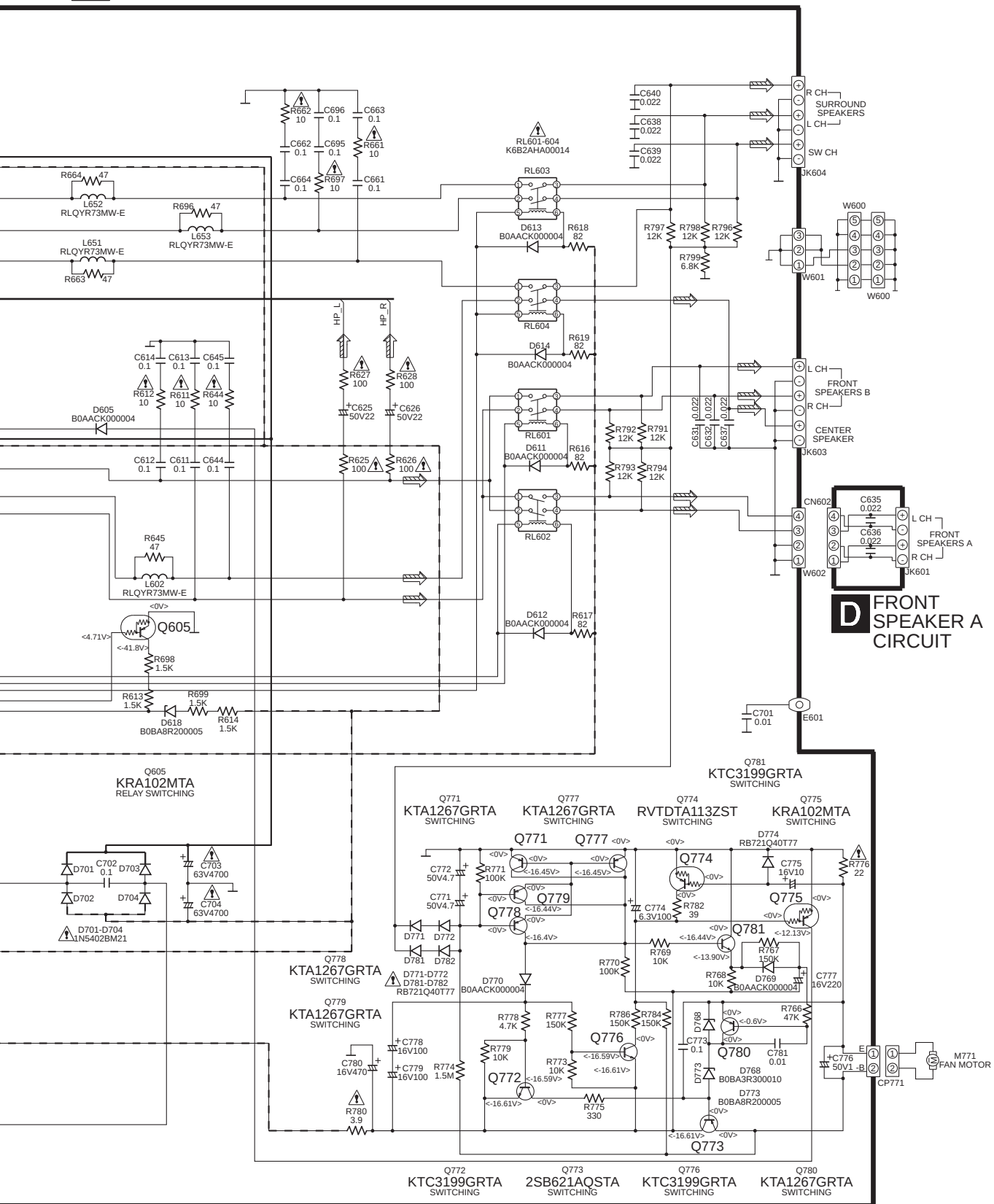
B

MAIN CIRCUIT

— : +B SIGNAL LINE

- - - : -B SIGNAL LINE

⇒ : MAIN SIGNAL LINE



D FRONT SPEAKER A CIRCUIT

G

H

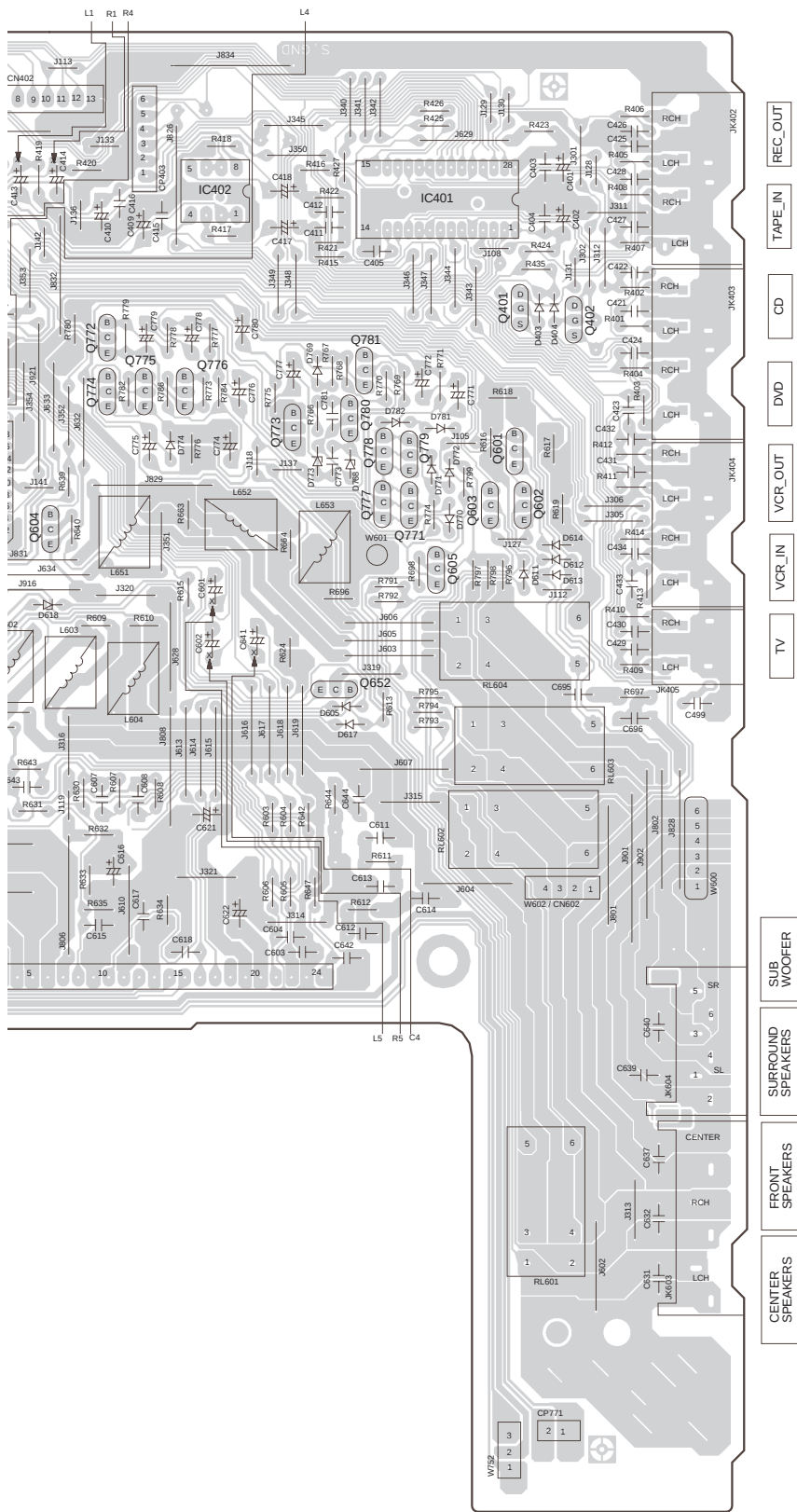
I

J

K

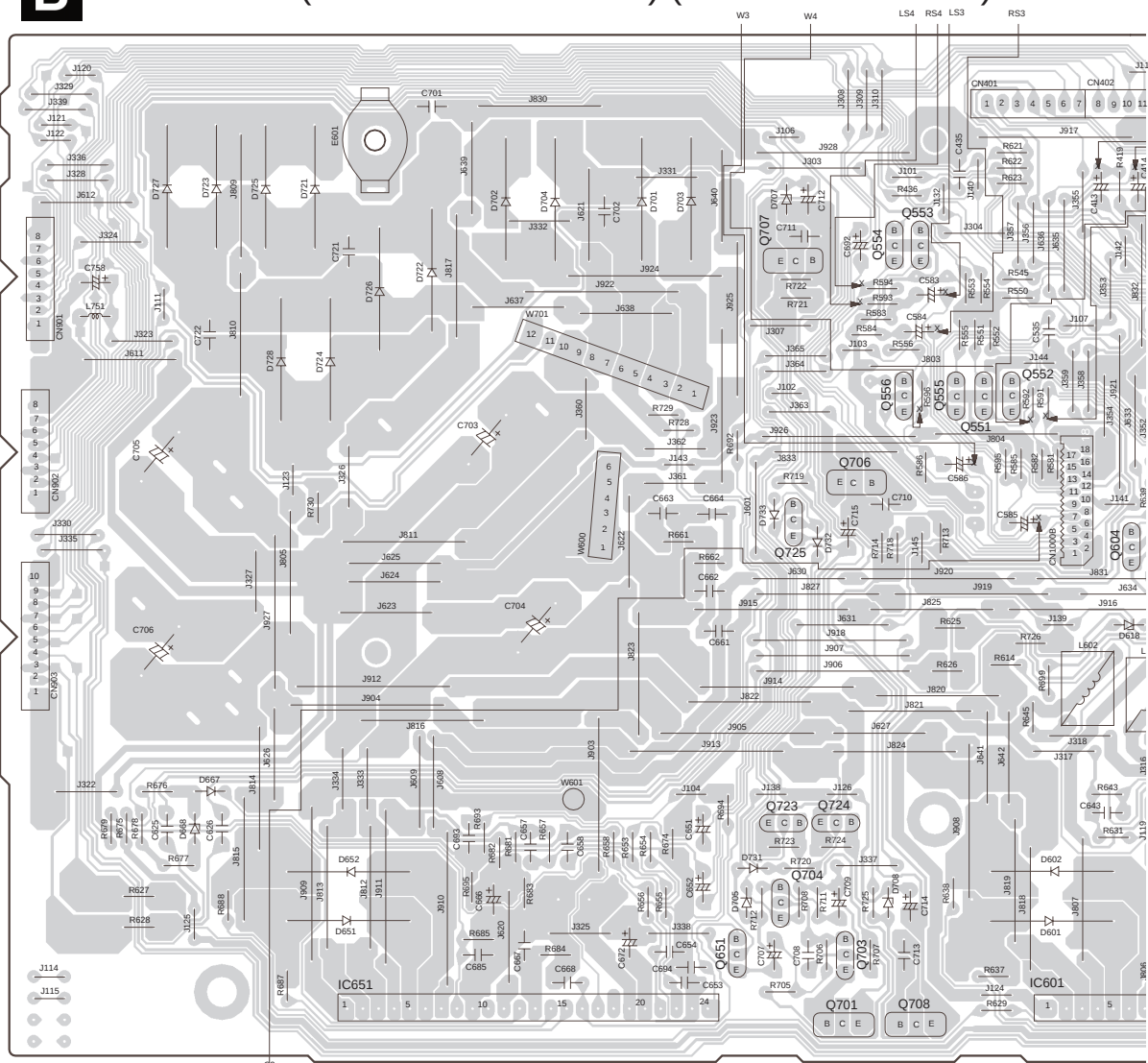
L

M

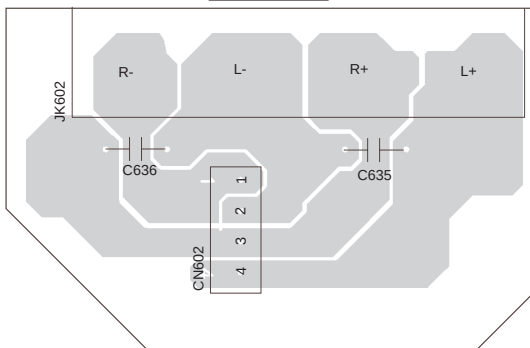


A B C D E F G

B MAIN P.C.B (REP3259C-M...E/EG) (REP3259D-M...EB)

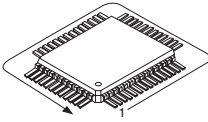
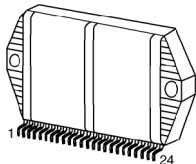
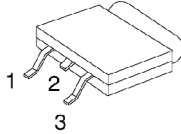
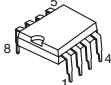
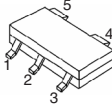
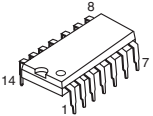
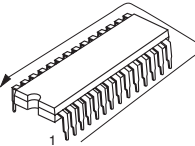
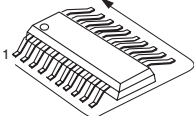
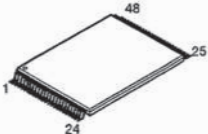
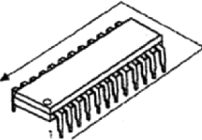
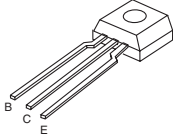
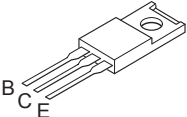
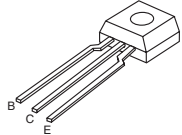
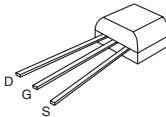
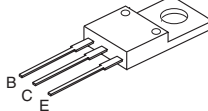
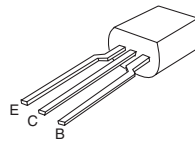
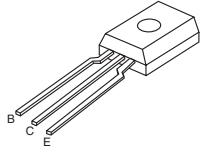
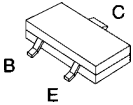
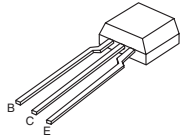
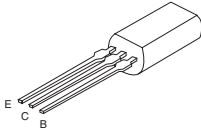
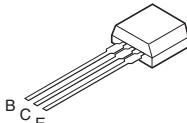
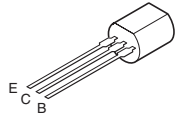
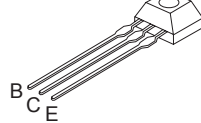
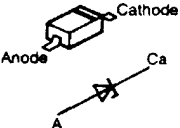
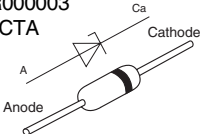
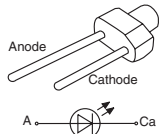
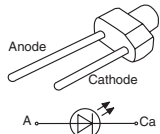
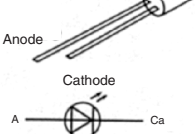


FRONTER
SPEAKER



D Front Speaker A P.C.B (REP3259C-M...E/EG) (REP3259D-M...EB)

(SIDE: B)

C2BBGF000316 (100P) C2HBZZ000008 (44P) C1BB00000684 (44P) 	RSN310R36A-P RSN310R37A-P 	C1AA00000647 (14P) C1BB00000490 (24P) C0FBBK000029 (16P) C0JBAS000175 (30P) TC9482F (28P) 	BA25BC0FP 	AN6558F C0ABBB000102 C0AABB000086 C0ABBB000127 	SNAHC1U04DBV 
NJM2060MTE1 C1AA00000123 	TC9163AN (28P) C1BB00000542 (18P) 	SN74LV244APW (20P) SN7AHT244PW (20P) SN74HCU04APW (14P) SN7AHT574PW (20P) 	C3FBJC000040 	LC72720N (24p) 	KRC107MTA 
KTC2026 	2SD1915FTA KTA1267GRTA 	2SK2880CTA 	2SB1548PQAU 2SD2374PQAU 	2SB621AQSTA 	KTD863 
B1GDCFJN0001 	KTC3199GRTA RVTDTTC143ZST 	2SA1534ALA 	RVTDTA113ZST RVTDTA114EST 	2SB0621ARA 	KRA102MTA KRC102MTA KRA119MTA 
B0ACCK000005 UDZSTE176R2B 	1SS291TA 1SR35400V B0BA5R600016 B0BA3R300010 B0BA6R600008 B0BA6R100003 B0BA7R500006 RB721Q40T77 	B0BAACK000004 B0BA03200003 B0BA8R200005 B0BA4R000003 MTZJ16CTA 	SLR325MCT31 B3AAA0000487 	SLR56YY3FN SLR56VR3FN 	1N5402BM21 B0JAPG000008 MA2C167A0E 