

Service Manual

AV Control Stereo Receiver

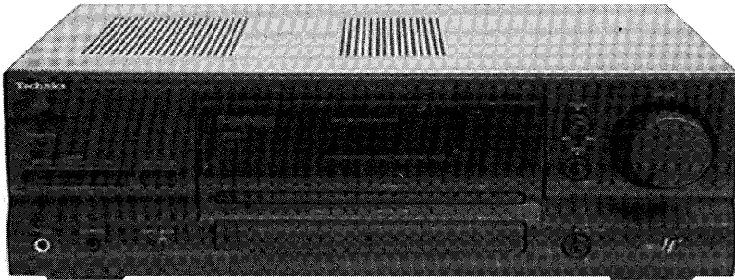
Receiver



SA-G76

Colour

(K) Black Type



Area

Suffix for Model No.	Area	Colour
(PP)	U.S.A. and Canada	(K)

System No. : S175PC-K, S2700P-M, S2750P-K
(Refer to page 3)

* Manufactured under license from Dolby Laboratories Licensing Corporation. Additionally licensed under one or more of the following patents: U.S. numbers 3,632,886, 3,746,792 and 3,959,590; Canadian numbers 1,004,603 and 1,037,877.
"Dolby" and the double-D symbol are trademarks of Dolby Laboratories Licensing Corporation.

Specifications

FM Tuner Section

Frequency range	87.9 – 107.9 MHz
Sensitivity	11.2 dBf (2 μ V, IHF '58)
50 dB quieting sensitivity	
MONO	18.3 dBf (4.5 μ V, IHF '58)
STEREO	38.3 dBf (45 μ V, IHF '58)
Total harmonic distortion	
MONO	0.2%
STEREO	0.3%
S/N	
MONO	75 dB
STEREO	70 dB
Frequency response	20 Hz – 15 kHz, +1 dB, -2 dB
Alternate channel selectivity	65 dB
Capture ratio	1 dB
Image rejection at 98 MHz	44 dB
IF rejection at 98 MHz	80 dB
Spurious response rejection at 98 MHz	75 dB
AM suppression	50 dB
Stereo separation	
1 kHz	40 dB
10 kHz	30 dB
Carrier leak	
19 kHz	-35 dB
38 kHz	-50 dB
Antenna terminal(s)	75 Ω (unbalanced)

AM Tuner Section

Frequency range	530 – 1710 kHz
Sensitivity	20 μ V, 330 μ V/m
Selectivity	55 dB
Image rejection at 1000 kHz	40 dB
IF rejection at 1000 kHz	60 dB

Video Section

Output voltage at 1 V input (unbalanced)	1 \pm 0.1 Vp-p
Maximum input voltage	1.3 Vp-p
Input/output impedance	75 Ω

Amplifier Section

Rated minimum sine wave RMS power output	
40 Hz – 20 kHz both channels driven	
0.9% total harmonic distortion	110 W per channel (8 Ω)
1 kHz continuous power output both channels driven	
0.9% total harmonic distortion	115 W per channel (8 Ω)
Total harmonic distortion	
Rated power at 40 Hz – 20 kHz	0.9% (8 Ω)
Half power at 1 kHz	0.05% (8 Ω)
Power output at the Dolby Pro Logic operation	
0.9% at 1 kHz,	
Front	2 x 100 W (8 Ω)
Center	100 W (8 Ω)
Surround	100 W (8 Ω)
	(Surround speakers' total impedance)
SMPTE intermodulation distortion	0.9% (8 Ω)
Dynamic headroom	2 dB (8 Ω)
Low frequency damping factor	30 (8 Ω)
Load impedance	
Front	8 Ω
Center	8 Ω
Surround	4 – 8 Ω
Input sensitivity	
PHONO	0.3 mV (3 mV, IHF '66)
CD, TAPE MONITOR, VCR 1, TV/VCR 2	18 mV (200 mV, IHF '66)
Input impedance	
PHONO	47 k Ω
CD, TAPE MONITOR, VCR 1, TV/VCR 2	22 k Ω

Technics®

⚠ 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.

S/N (IHF A)	
PHONO	70 dB (80 dB, IHF '66)
CD, TAPE MONITOR, VCR 1, TV/VCR 2	
	75 dB (85 dB, IHF '66)
Frequency response	
PHONO	RIAA standard curve ±0.8 dB
CD, TAPE MONITOR, VCR 1, TV/VCR 2	
	10 Hz – 60 kHz, ±3 dB
Tone controls	
BASS	50 Hz, +10 dB to –10 dB
TREBLE	20 kHz, +10 dB to –10 dB
Super bass	80 Hz, +7 dB

■ General

Power consumption	270 W, 350 VA
Power supply	AC 120 V, 60 Hz
Dimensions (W x H x D)	430 x 153 x 360 mm
	(16 ¹⁵ / ₁₆ " x 6 ¹ / ₃₂ " x 14 ¹¹ / ₆₄ ")
Weight	9.5 kg (20.9 lb.)

Notes :

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

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■ Safety Precautions (This "Safety Precaution" is applied only in U.S.A.)

1. Before servicing, unplug the power cord to prevent an electric shock.
2. When replacing parts, use only manufacturer's recommended components for safety.
3. Check the condition of the power cord. Replace if wear or damage is evident.
4. After servicing, be sure to restore the lead dress, insulation barriers, insulation papers, shields, etc.
5. Before returning the serviced equipment to the customer, be sure to make the following insulation resistance test to prevent the customer from being exposed to a shock hazard.

• Insulation Resistance Test

1. Unplug the power cord and short the two prongs of the plug with a jumper wire.
2. Turn on the power switch.
3. Measure the resistance value with ohmmeter between the jumper AC plug and each exposed metal cabinet part, such as screwheads, antenna, control shafts, handle brackets, etc. Equipment with antenna terminals should read between 3MΩ and 5.2MΩ to all exposed parts*. (Fig. 1) Equipment without antenna terminals should read approximately infinity to all exposed parts. (Fig. 2)
- *Note : Some exposed parts may be isolated from the chassis by design. These will read infinity.
4. If the measurement is outside the specified limits, there is a possibility of a shock hazard. The equipment should be repaired and rechecked before it is returned to the customer.

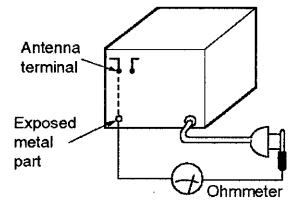


Fig. 1

Resistance = 3MΩ – 5.2MΩ

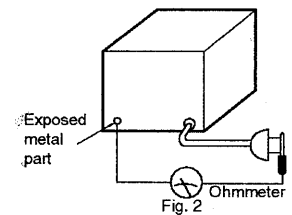


Fig. 2

Resistance = Approx ∞

■ Before Repair and Adjustment

Disconnect AC power, discharge both Power Supply Capacitors (C703 to C706) through a 10Ω, 5W resistor to ground. DO NOT SHORT-CIRCUIT DIRECTLY (with a screwdriver blade, for instance), as this may destroy solid state devices. After repairs are completed, restore power gradually using a variac, to avoid overcurrent. Current consumption at 120V, 60 Hz in NO SIGNAL mode should be 400 ~ 1000 mA.

■ Protection Circuitry

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

- No sound is heard when the power is turned on.
- Sound 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:

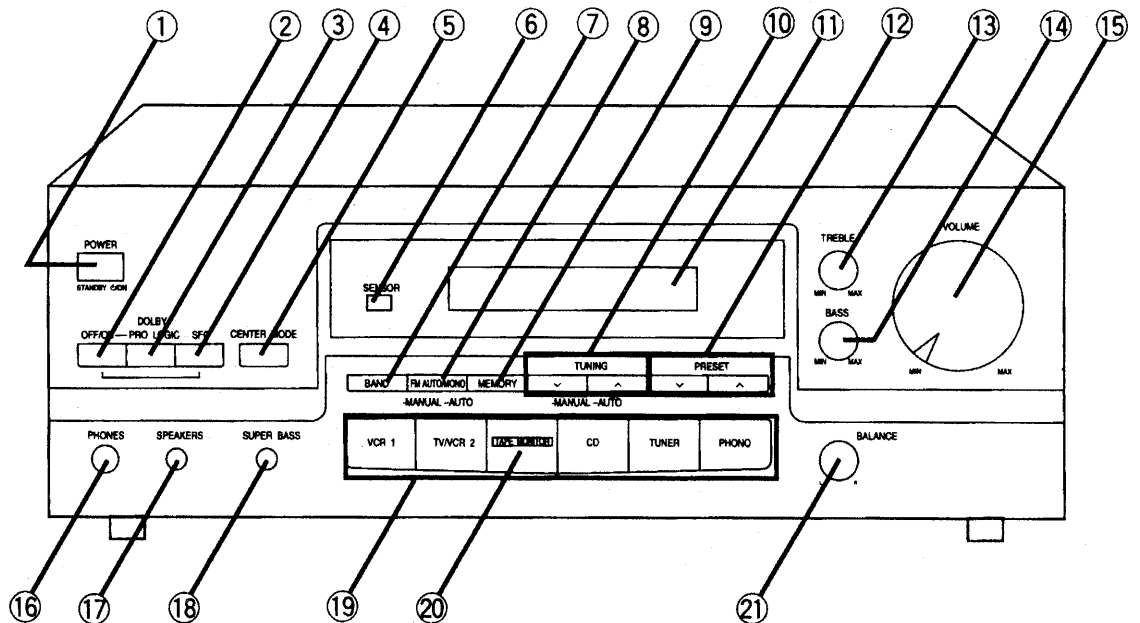
When the protection circuitry functions, the unit will not operate unless the power is first turned off and then on again.

Line-up of Components

System name	Unit
S175PC-K	SA-G76PP-K : Receiver (Made in MAV)
	SD-S917PC-K : Electronics block (Made in MESA)
	RS-TR180PP-K : Cassette deck (Made in MESA)
	SL-MC59PP-K : CD changer (Made in MESA)
	SH-WA17PC-K : Accessories box (Made in MESA)
	— : Speaker block
	— : Center speaker
	— : Surround speaker
SB-A27PP-K : Front speaker (Made in MEP)	
SH-KS27PC-K : Rack (Made in MEP)	
S2700P-M	SA-G76PP-K : Receiver (Made in MAV)
	SD-S927P-K : Electronics block (Made in MESA)
	RS-TR180PP-K : Cassette deck (Made in MESA)
	SL-MC59PP-K : CD changer (Made in MESA)
	SH-WA27P-K : Accessories box (Made in MESA)
	SB-AD370P-M : Speaker block (Made in MEP)
	SB-C937P-M : Center speaker (Made in MEP)
	SB-S937P-M : Surround speaker (Made in MEP)
	SB-A27P-M : Front speaker (Made in MEP)
	SH-KS27P-M : Rack (Made in MEP)
S2750P-K	SA-G76PP-K : Receiver (Made in MAV)
	SD-S927P-K : Electronics block (Made in MESA)
	RS-TR180PP-K : Cassette deck (Made in MESA)
	SL-MC59PP-K : CD changer (Made in MESA)
	SH-WA27P-K : Accessories box (Made in MESA)
	SB-AD370P-K : Speaker block (Made in MEP)
	SB-C937PP-K : Center speaker (Made in MEP)
	SB-S937PP-K : Surround speaker (Made in MEP)
	SB-A27PP-K : Front speaker (Made in MEP)
	SH-KS27P-K : Rack (Made in MEP)

Front Panel Controls

No.	Name
①	Power "STANDBY  ON" switch (POWER, STANDBY  Press to switch the unit from on to standby mode or vice versa. In standby mode, the unit is still consuming a small amount of power.
②	DOLBY PRO LOGIC, SFC OFF/ON button (OFF/ON)
③	DOLBY PRO LOGIC select button (DOLBY PRO LOGIC)
④	Sound field control select button (SFC)
⑤	Center mode select button (CENTER MODE)
⑥	Remote control signal sensor (SENSOR)
⑦	Band select button (BAND)
⑧	FM mode select button (FM AUTO/MONO)
⑨	Memory button (MEMORY)
⑩	Tuning buttons (TUNING)
⑪	Display
⑫	Preset channel buttons (PRESET)
⑬	Treble control (TREBLE)
⑭	Bass control (BASS)
⑮	Volume control (VOLUME)
⑯	Headphone jack (PHONES)
⑰	Speaker ON/OFF button (SPEAKERS)
⑱	Super bass ON/OFF button (SUPER BASS)
⑲	Input select buttons
⑳	Tape monitor button (TAPE MONITOR)
㉑	Balance control (BALANCE)



■ Operation Checks and Main Component Replacement Procedures

"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.

• **Contents**

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• Replacement of Power IC and Regulator Transistor	6 ~ 7

■ Checking Procedure for Major P.C.B.

Step 1
a X 4

Step 2
b X 2

Step 3 Remove the top cabinet.

Panel P.C.B. (Solder side)

Pro Logic P.C.B. (Solder side)

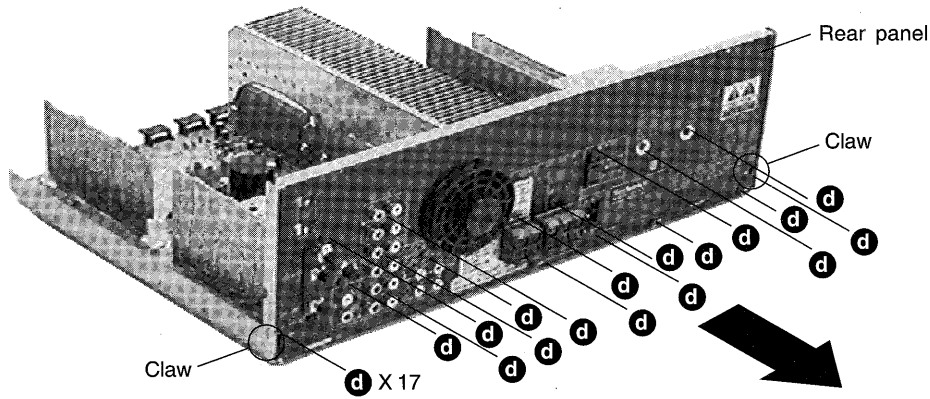
Tuner P.C.B. (Solder side)

Step 4
c X 3

Step 5
Release the two front claws and pull out the front panel assembly. Take note of the connectors as you remove the front panel assembly. (CN901 to CN905)

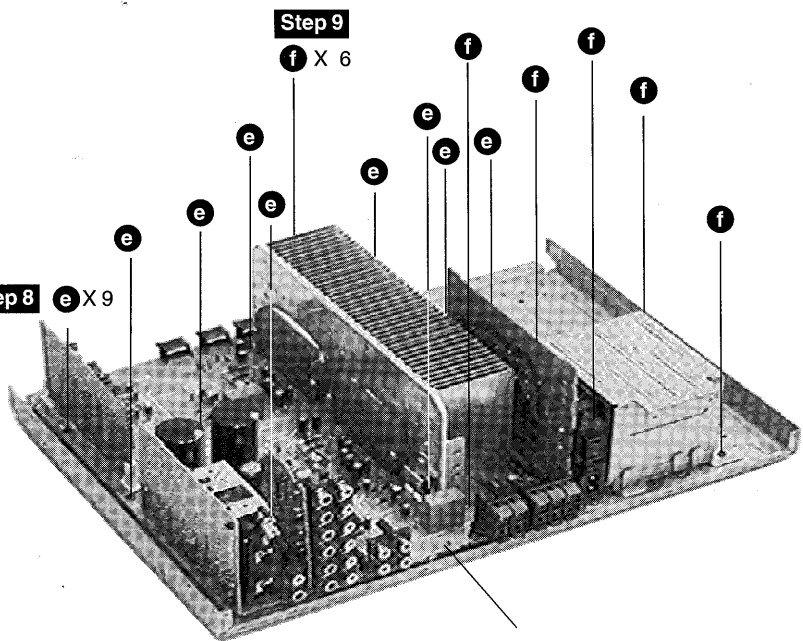
a
[SNE2129-1]
(Black)

b, **c**
[XTBS3+8JFZ1]
(Black)



Step 6

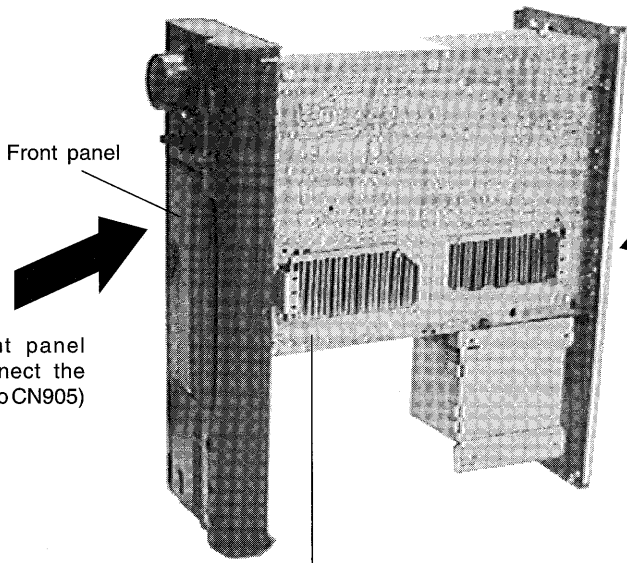
Step 7 Release the claws and then remove the rear panel.



Step 8

Step 9

Step 10 Remove the main P.C.B.



Step 12




Fix back the front panel assembly and connect the connectors. (CN901 to CN905)

Step 13

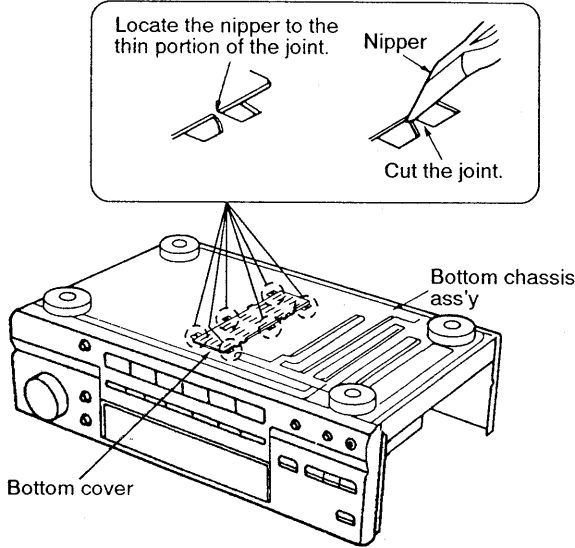
Connect back the transformer to the power P.C.B. and Check the Main P.C.B. as shown on the left.

Step 11

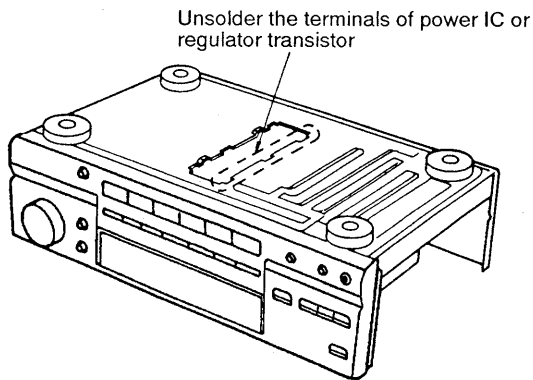
Install the rear panel temporarily on the main P.C.B. again.

	d [XTBS3+8JFZ1] (Black)
	e [XTB3+20JFZ] (Black)
	f [XTB3+8FFZ] (Black)

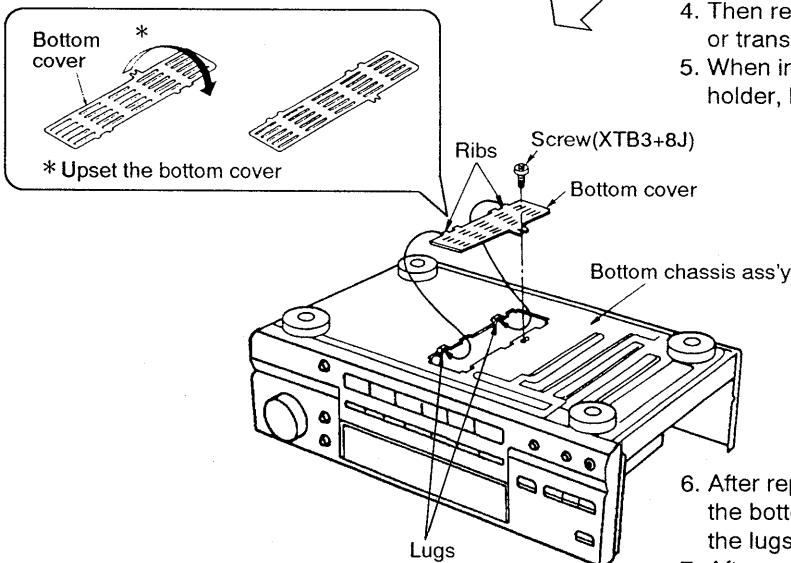
■ Replacement of Power IC and Regulator Transistor



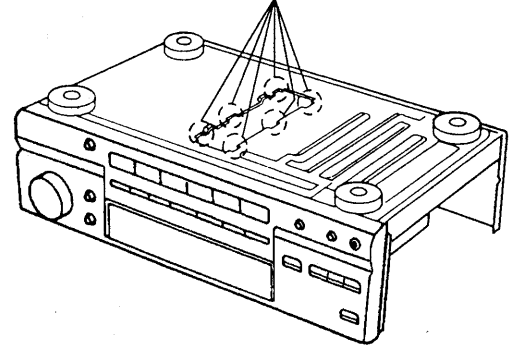
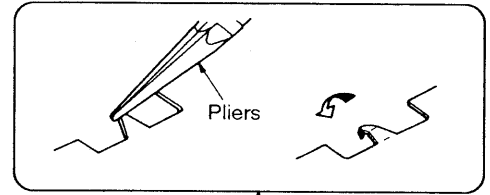
1. Cut the joints(6 portions) between bottom cover and bottom chassis ass'y with nipper.



3. When replacing the power IC or regulator transistor, unsolder the terminals of power IC or regulator transistor on the soldered surface.



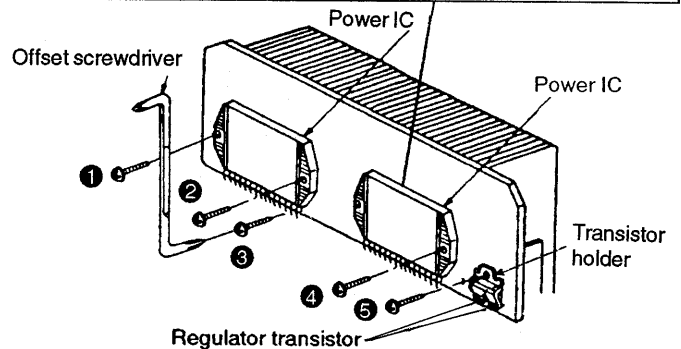
6. After replacing the power IC or regulator transistor, upset the bottom cover and align the ribs of the bottom cover to the lugs on the bottom chassis ass'y.
7. After mounting the bottom cover on the bottom chassis ass'y, fix it with a screw(XTB3+8J).



2. After cutting the joints(6 portions), bend the portions of the bottom chassis ass'y in the direction of arrow with pliers.

CAUTION

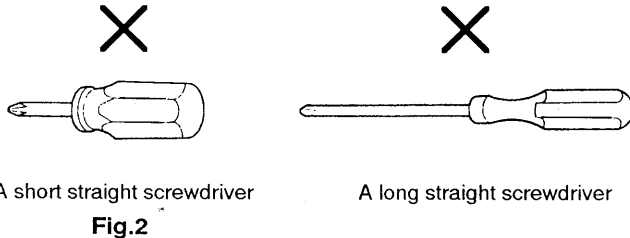
- After replacing the power IC or regulator transistor, apply a sufficient quantity of compound grease (RFKX0002) between the heat sink and the power IC or regulator transistor. (Radiation of power IC & transistor)
- Tighten enough the screws (① ~ ⑤) after replacing the power IC or regulator transistor. Otherwise, the heat radiation works little.



4. Then remove the 3 screws(① ~ ⑤) fixed to the power IC or transistor holder.
5. When installing or removing the power IC or transistor holder, be sure to use an offset screwdriver.

CAUTION:

1. A long straight screwdriver cannot be used for removal or mounting since its long grip interferes with the neighboring P.C.B. (See Fig.1)
2. A short straight screwdriver may be used for removal, but cannot be used for mounting because the limited space in the unit will not allow sufficient tightening torque. (See Fig.2)



3. Insufficient tightening will cause poor heat dissipation from the power IC and regulator transistor and, in the worst case, may lead their thermal breakdown. (See Fig.2)

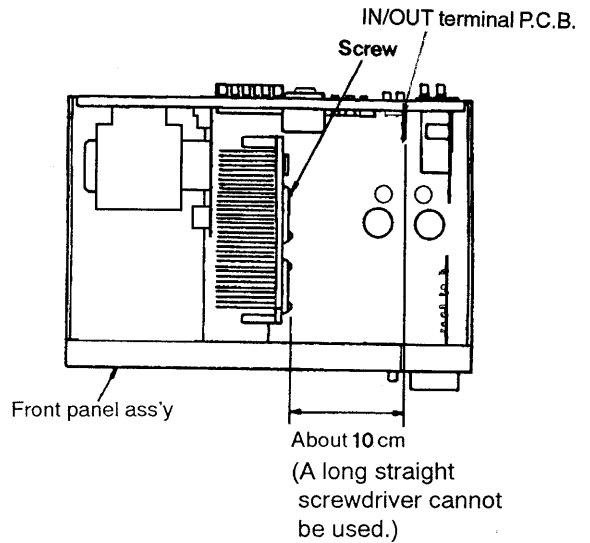
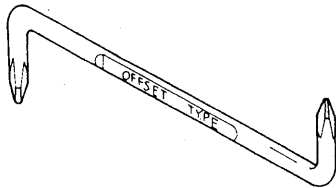


Fig.1

—OFFSET SCREWDRIVER—

- The PROTO offset screwdriver No.34 - 1/4 is recommended for use in the application above.



No.		
34 1/4	1 & 2	4 3/4"

- The address of PROTO International Sales is as follows.



International Sales

International Sales Office
 Stanley-Proto Industrial Tools
 14117 Industrial Park Blvd.
 Covington, GA 30209 U.S.A.
 Fax: 706-786-4387
 Phone: 706-787-3800

Australia, New Zealand &
 South Pacific
 Stanley-Proto Industrial Tools
 P.O.Box 10
 400 Whitehorse Road
 Nunawading 3131
 Victoria, Australia
 Fax: 61-3-894-1173
 Phone: 61-3-878-9244

Singapore, Indonesia,
 Philippines, Korea, Hong
 Kong, Malaysia, China.
 Stanley-Proto Asia Pacific
 12 Gul Drive
 Singapore 2262
 Fax: 65-861-3206
 Phone: 65-862-0883

Thailand
 Stanley-Proto Thailand Ltd.
 1017 Moo 13 Bangnatrad
 Highway, Tambol Bankaew
 Amphur Bangplee
 Samutprakarn, Thailand
 Fax: 66-2-316-6071
 Phone: 66-2-316-8655

Japan
 Stanley Works Japan
 2-7-16 Hyakunin-Cho
 Shinjuku-ku
 Tokyo 160 Japan
 Fax: 81-3-3360-8456
 Phone: 81-3-3360-8458

Mexico
 Herramientas Stanley S.A.
 DE C.V.
 Apartado Postal 675
 72030 Puebla, Pue, Mexico
 Fax: 52-22-494-4880
 Phone: 52-22-495-300

South & Central America,
 Puerto Rico, The Caribbean
 Stanley Inter-America
 2101 N.W. 84th Ave.
 Miami, Florida 33122
 Fax: 305-594-4261
 Phone: 305-591-3828

Europe
 Stanley-Proto Europe
 Woodside, Sheffield
 539PD
 England
 Fax: 44-742-739-038
 Phone: 44-742-768-888

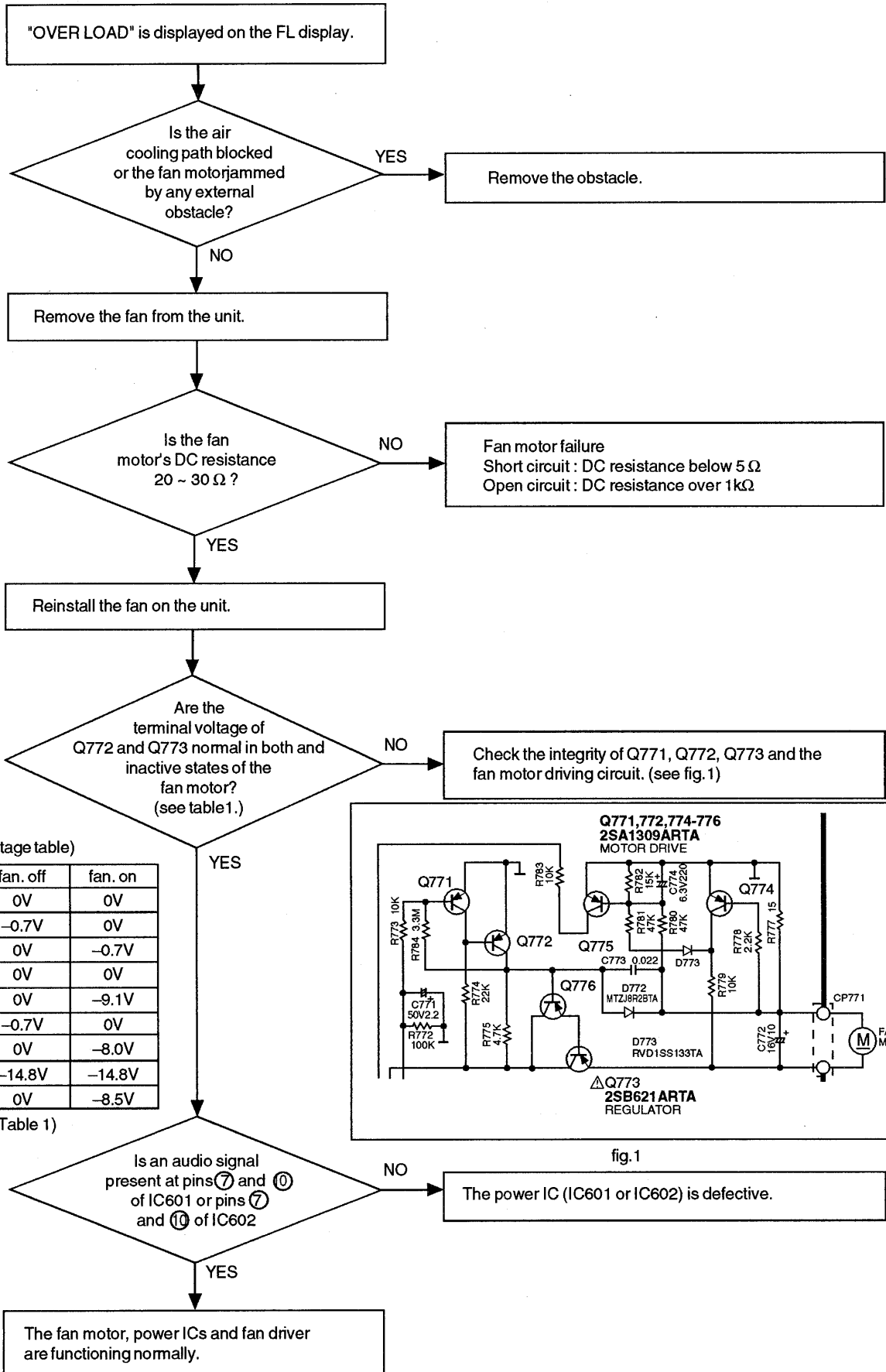
Canada
 Stanley-Proto Canada
 1100 Corporate Drive
 Burlington, Ontario
 Canada, L7L 5R6
 Fax: 416-335-0075
 Phone: 416-335-0075

Middle East, Mediterranean
 & Africa
 Stanley-MEMA
 Cory House The Ring
 Bracknell Berkshire
 RG 12 1A2
 England
 Fax: 44-344-485-526
 Phone: 44-344-51813

Fan Motor Troubleshooting

The Model SA-G76 employ fan motor error sensing electronics.

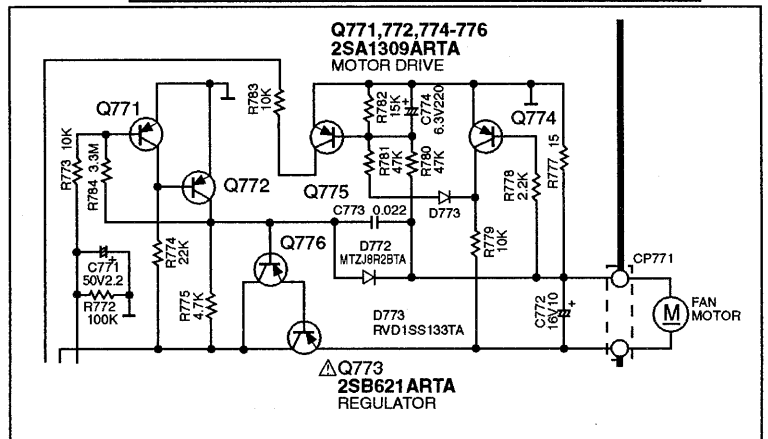
If the cooling fan is not operating and "OVER LOAD" is displayed on the FL display, check the fan motor and its driving circuit.



(Voltage table)

		fan. off	fan. on
Q771	E	0V	0V
	C	-0.7V	0V
	B	0V	-0.7V
Q772	E	0V	0V
	C	0V	-9.1V
	B	-0.7V	0V
Q773	E	0V	-8.0V
	C	-14.8V	-14.8V
	B	0V	-8.5V

(Table 1)

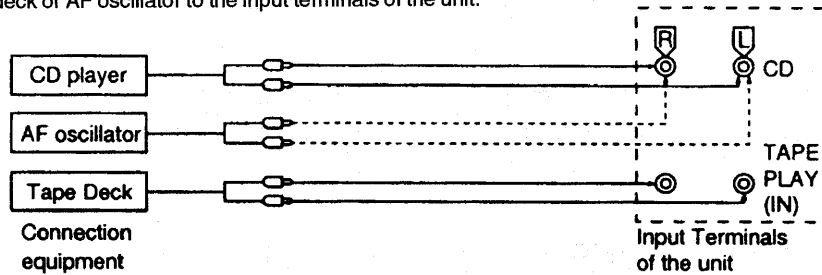


■ Troubleshooting

This unit has test points on each circuit board block for use in troubleshooting.

CONNECTION

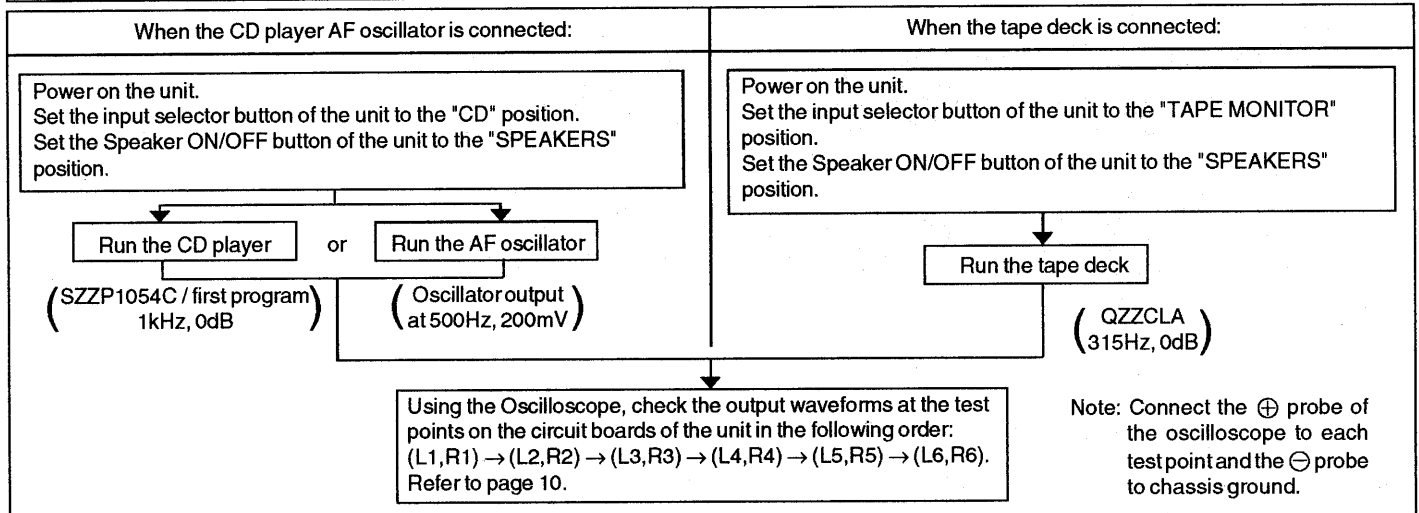
Connect either a CD player, tape deck or AF oscillator to the input terminals of the unit.



REQUIRED ITEMS

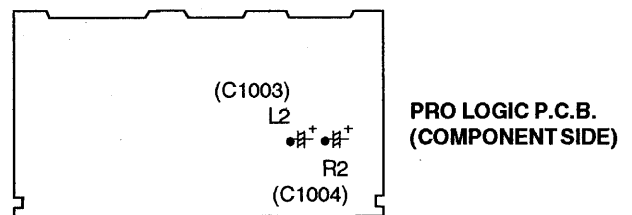
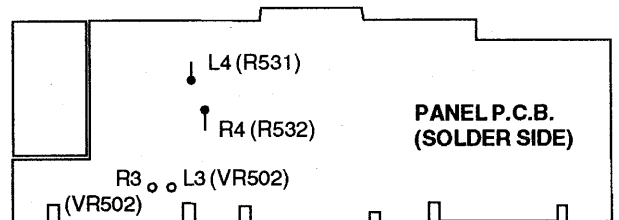
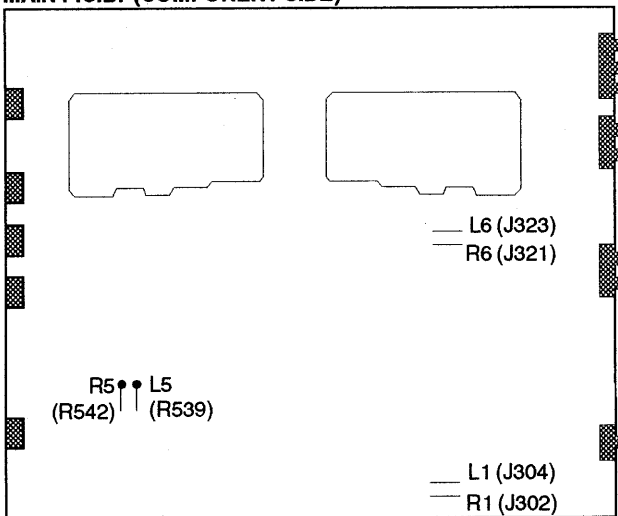
- | | | |
|---------------------------------|-------|--|
| 1. Testing with a CD player | ————— | Test deck (SZZP1054C / first program, 1kHz, 0dB) |
| 2. Testing with a tape deck | ————— | Test tape (QZZCLA / 315Hz, 0dB) |
| 3. Testing with a AF oscillator | ————— | Set the output at 500Hz, 200mV |
| 4. Oscilloscope (min. 10MHz) | ----- | To measure the output waveform at the test points. |

TEST PROCEDURE FOR AMPLIFIER CIRCUIT

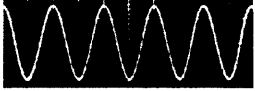
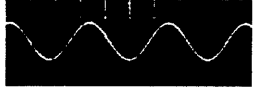

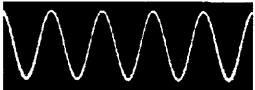

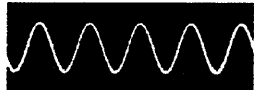
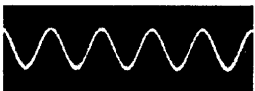
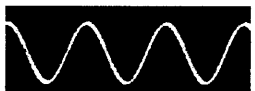
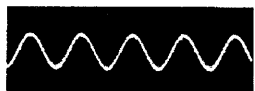

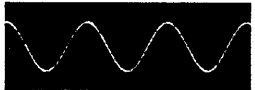
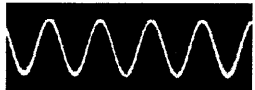



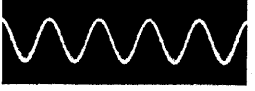
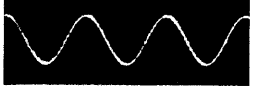
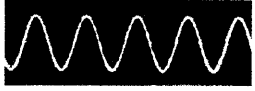


TEST POINTS POSITIONS OF AMPLIFIER CIRCUIT

MAIN P.C.B. (COMPONENT SIDE)



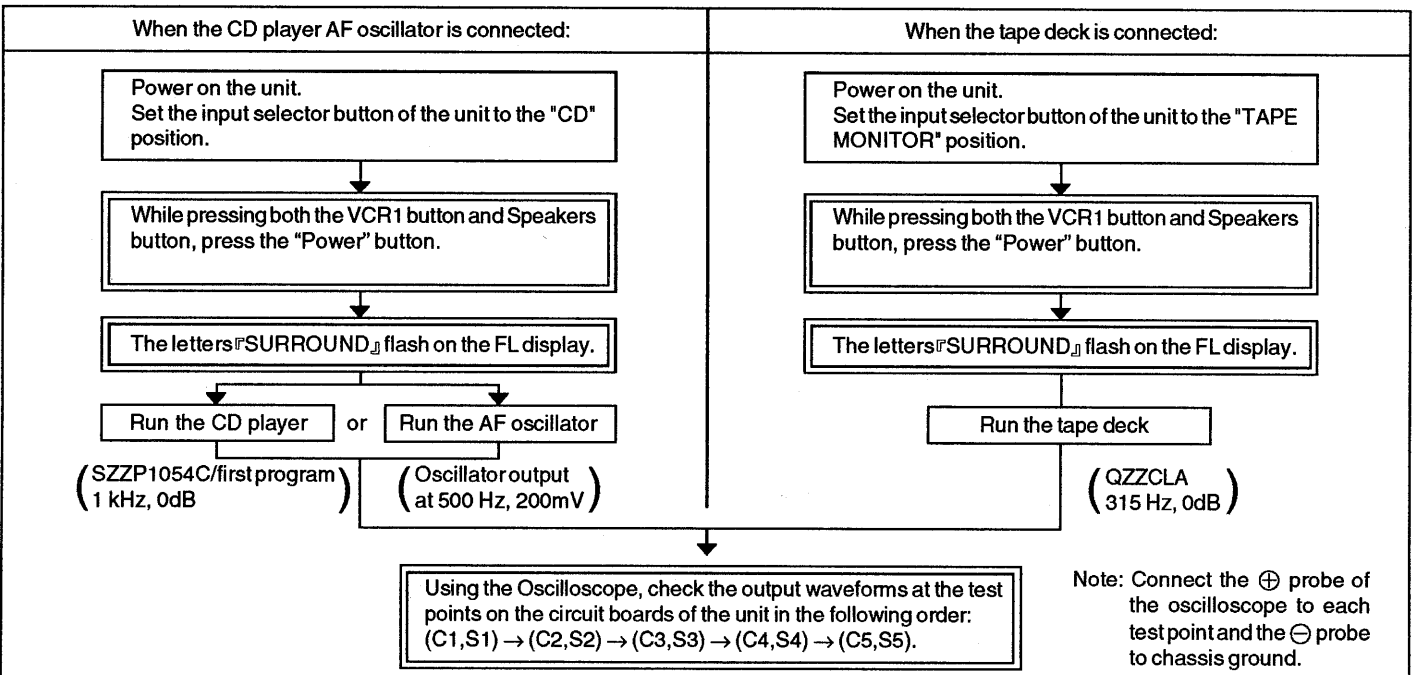
NORMAL WAVEFORMS OF AMPLIFIER CIRCUIT AND LIKELY FAULTY BLOCKS

TP	CD player	Tape deck	AF oscillator	Likely faulty block if the normal waveform shown at the left is not present.
L1/R1	 0.5 msec 2 V	 1 msec 500 mV	 1 msec 500 mV	Input selector block IC402 & area
L2/R2	 0.5 msec 2 V	 1 msec 500 mV	 1 msec 500 mV	Dolby pro logic block IC1001, IC1002 & area
L3/R3	 0.5 msec 500 mV	 1 msec 50 mV	 1 msec 100 mV	Master volume block VR501 & area
L4/R4	 0.5 msec 500 mV	 1 msec 1 V	 1 msec 1 V	Tone control block IC511 & area
L5/R5	 0.5 msec 100 mV*	 1 msec 500 mV	 1 msec 500 mV	Power limiter block Q581 to Q584 & area
L6/R6	 0.5 msec 5 V*	 1 msec 10 V	 1 msec 10 V	Main amplifier block IC601 & area

Measurement conditions. Volume control (VR501), Treble control (VR512) and Bass control (VR511) positions : \odot
 *Volume control position (VR501) for these test : \ominus

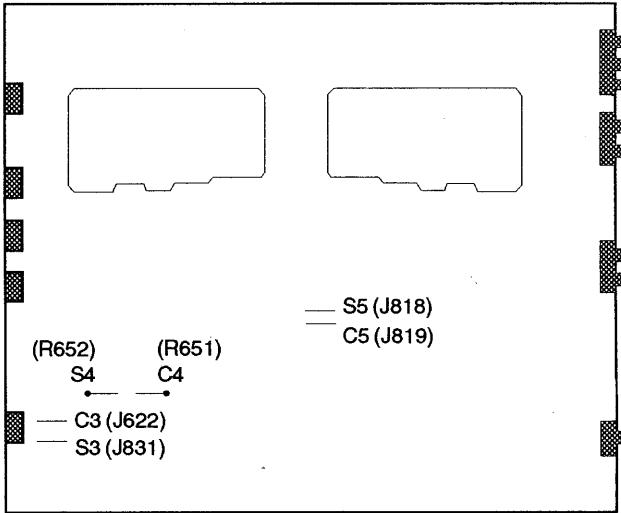
CHECKING PROCEDURE FOR SURROUND CIRCUIT

Outputting surround signals normally requires that opposite phase signals be applied to both the left and right channels. However, this unit incorporates a service mode, allowing the surround circuit to be tested using in-phase signals.

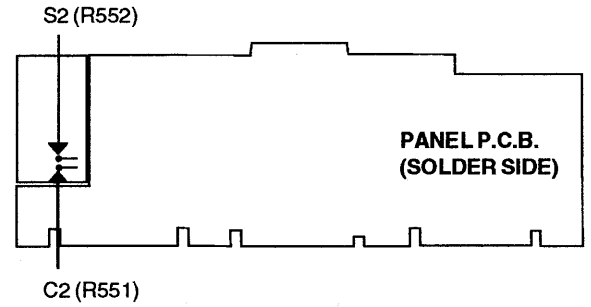


• To Exit the service mode, power off the unit.

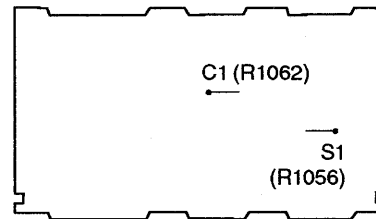
TEST POINTS POSITIONS OF SURROUND CIRCUIT



MAIN P.C.B. (COMPONENT SIDE)



PANEL P.C.B.
(SOLDER SIDE)



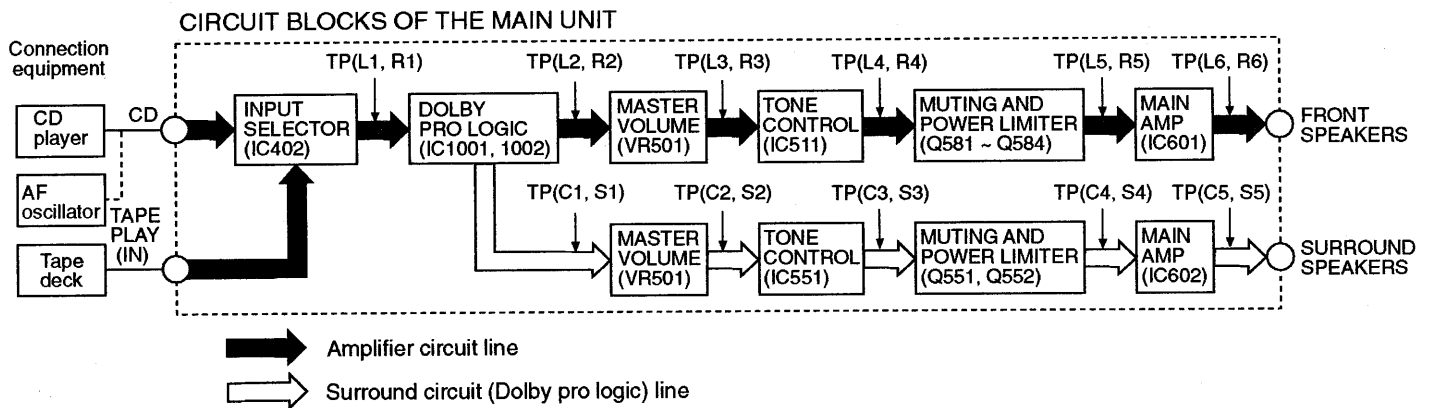
PRO LOGIC P.C.B.
(COMPONENT SIDE)

NORMAL WAVEFORMS OF SURROUND CIRCUIT AND LIKELY FAULTY BLOCKS

TP	CD player	Tape deck	AF oscillator	Likely faulty block if the normal waveform shown at the left is not present.
C1 S1	 0.5 msec 1 V	 1 msec 100 mV	 1 msec 200 mV	Dolby pro logic block IC1001, IC1002 & area
C2 S2	 0.5 msec 200 mV	 1 msec 20 mV	 1 msec 50 mV	Master volume block VR501 & area
C3 S3	 0.5 msec 5 V	 1 msec 500 mV	 1 msec 1 V	Tone control block IC551 & area
C4 S4	 0.5 msec 5 V	 1 msec 10 V	 1 msec 1 V	Power limiter block through Q551, Q552 & area
C5 S5	 0.5 msec 10 V*	 1 msec 10 V	 1 msec 20 V	Main amplifier block IC602 & area

Measurement conditions. Volume control (VR501), Treble control (VR512) and Bass control (VR511) positions : ◯
*Volume control position (VR501) for these test : ⊙

CIRCUIT BLOCKS



OVERLOAD DETECTION FUNCTION

The HIC protection circuit functions if any cord at a speaker terminal is short-circuited or if the unit overheats because of improper operation. At the same time, 『OVERLOAD』 scrolls across the FL display.

In this state, all keys remain inoperative; if any key is pressed, 『SWITCH OFF POWER』 scrolls across the FL display.

If an overload occurs, immediately power off the unit and check the speaker connections, venting holes and cooling fans. After fixing any faults, power on the unit again and check for proper operation.

If no detects are found, or if the unit remains overloaded after it is power on again, check the circuit for faults.

Terminal Function of ICs

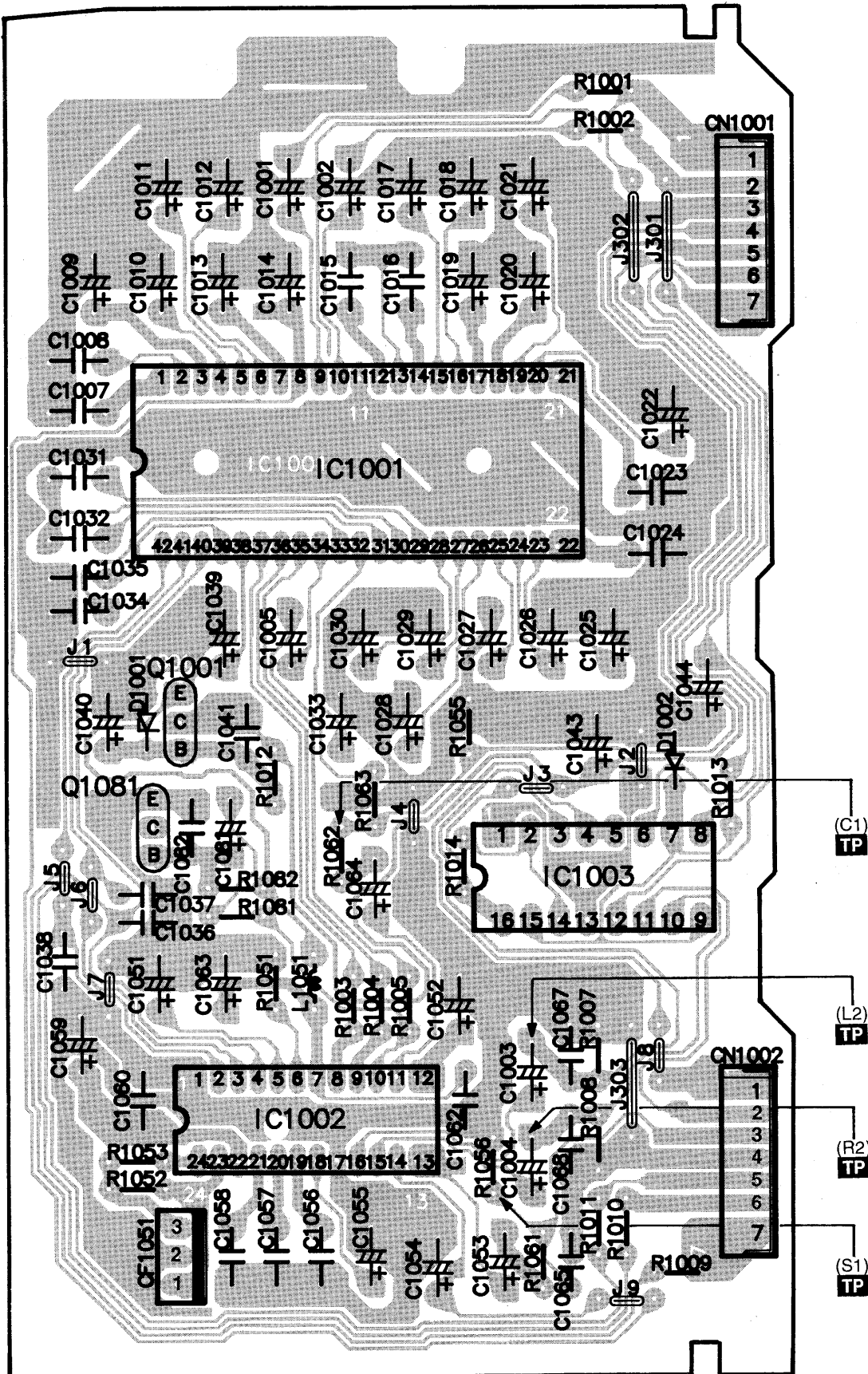
• IC901 (UPD78043A041) System Microprocessor

Pin No	Mark	I/O	Function
1~7	D4~D10	O	Digit signal of FL display
8	VDD	I	Power supply terminal
9	SUR/OSD_CK	O	Serial clock signal
10	SUR/OSD_DT	O	Serial data signal
11	VIDEO_DET	-	Not used
12	SUR_CE	O	Chip enable signal
13	VOL_UP	O	Rotate control terminal of
14	VOL_DWN	O	volume motor
15	LOUDNESS	-	Not used
16	FM_STEREO	I	Stereo signal detect terminal
17	RESET	I	Reset detect terminal
18	SD	I	Received signal detect terminal
19	OSD_ST	-	Not used
20	GND	-	GND terminal
21	VIDEO_B	O	Video selector control terminal
22	VIDEO_A	O	
23	IF_DATA	I	Serial data signal
24	THERMAL	O	Mute control terminal
25~28	KEY1~KEY4	I	Key matrix detect terminal
29	AVDD	I	Power supply terminal
30	AVREF	I	Power supply terminal
31	OVERLOAD	I	Over load detect terminal
32	XT2	-	Not used
33	GND	-	GND terminal
34	XIN	I	Crystal oscillator terminal
35	XOUT	O	(4MHz)

Pin No	Mark	I/O	Function
36~40	SFC1~SFC5	-	Not used
41	TNR_CE	O	Chip enable signal
42	SEL/TNR_DT	O	Serial data signal
43	SEL/TNR_CK	O	Serial clock signal
44	TV/VCR2	-	Not used
45	SUPERBASS	O	Super bass control terminal
46	HOLD	I	Hold signal input terminal
47	REMOTE	I	Remote control terminal
48	GND	-	GND terminal
49	SEL_ST	O	Level shift control terminal
50	HELP_LED	-	Not used
51	STANDBY_LED	-	Not used
52	VDD	I	Power supply terminal
53	REC_MUTE	-	Not used
54	S/C_SP	O	Surround/center speaker select control terminal
55	SP_B	-	Not used
56	SP_A	O	Speaker select control terminal
57	POWER_RLY	O	Relay control terminal
58	AF_MUTE	O	Muting control terminal
59	LIMITTER	-	Not used
60	INIT_IN	-	Not used, connect to resistor
61~70	S16~S7	O	Segment signal of FL display
71	VLOAD	I	Power supply terminal
72~77	S6~S1	O	Segment signal of FL display
78~80	D1~D3	O	Digit signal of FL display

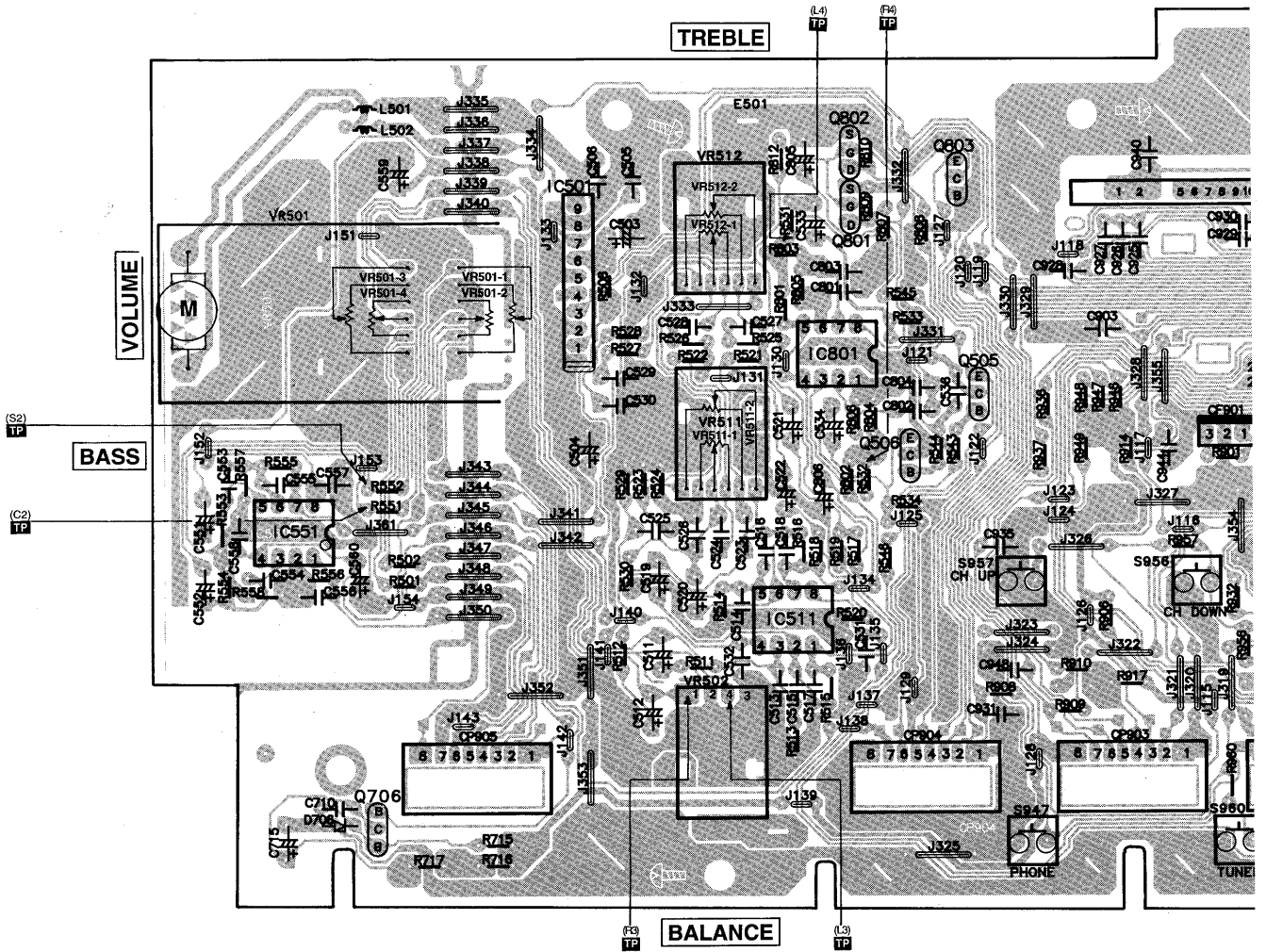
■ Printed Circuit Board

■ PRO LOGIC P.C.B. (REP2241A-T)

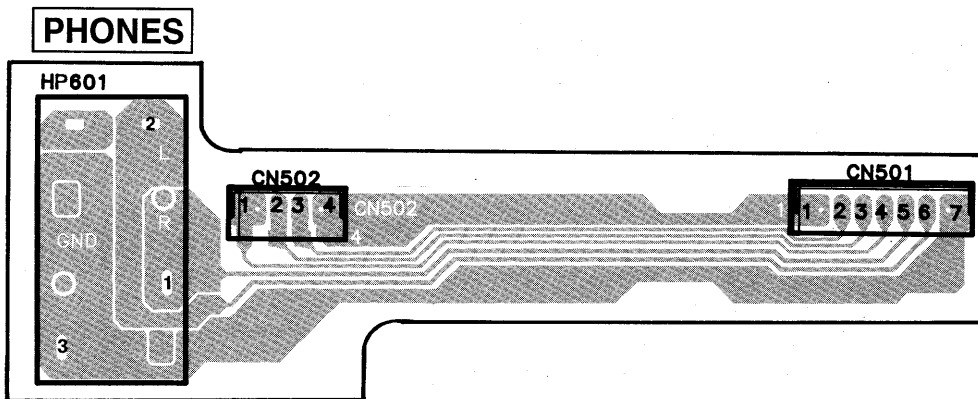


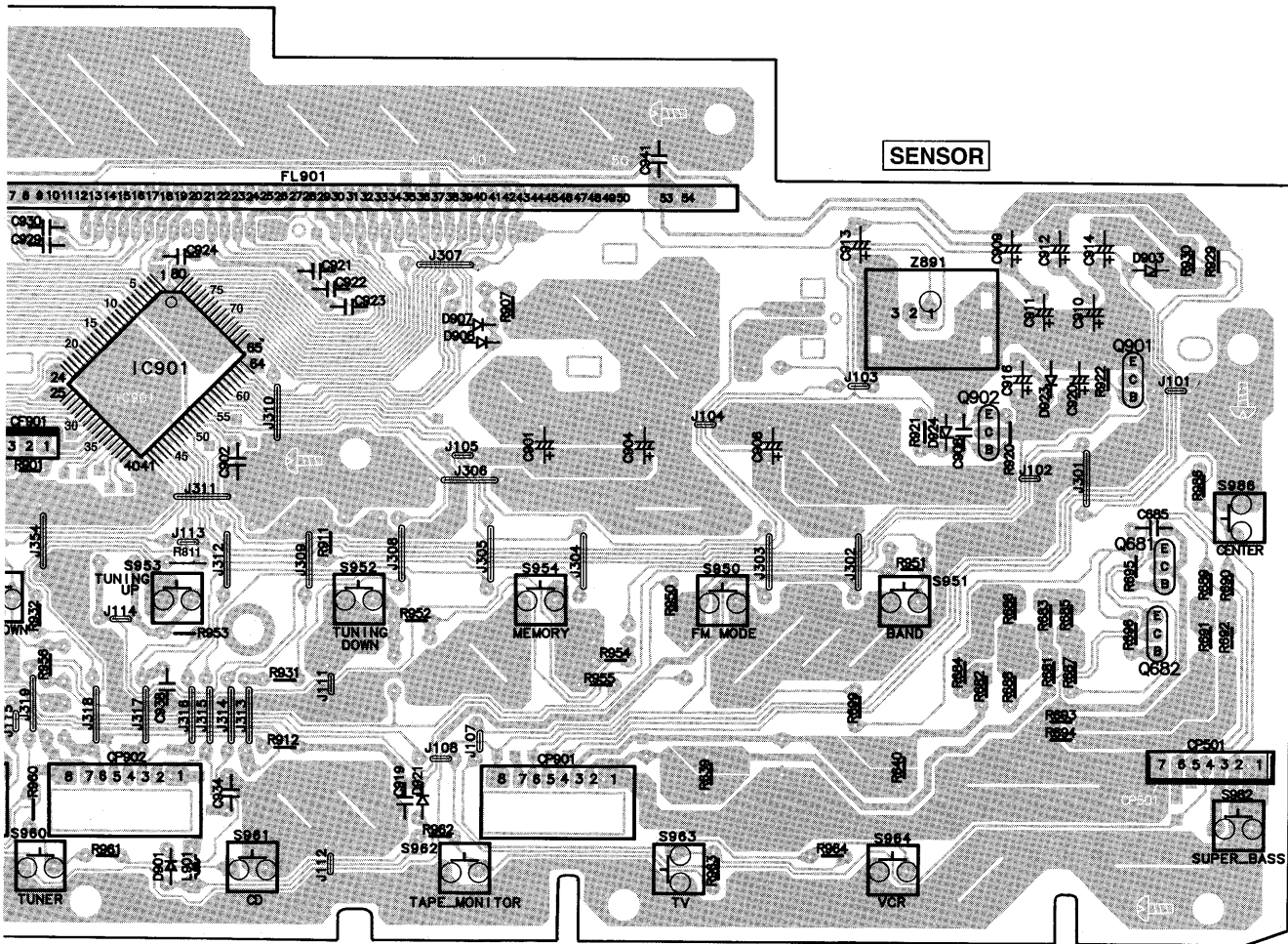
C VOLUME P.C.B. (REP2333A-S)

B PANEL P.C.B. (REP2333A-S)

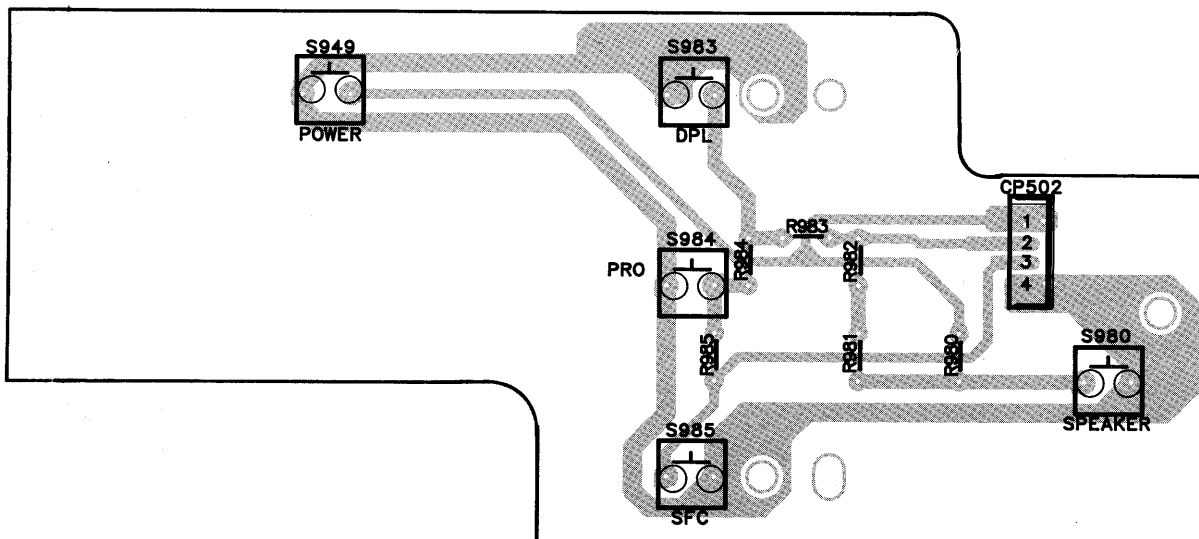


D HEADPHONE JACK P.C.B. (REP2333A-S)

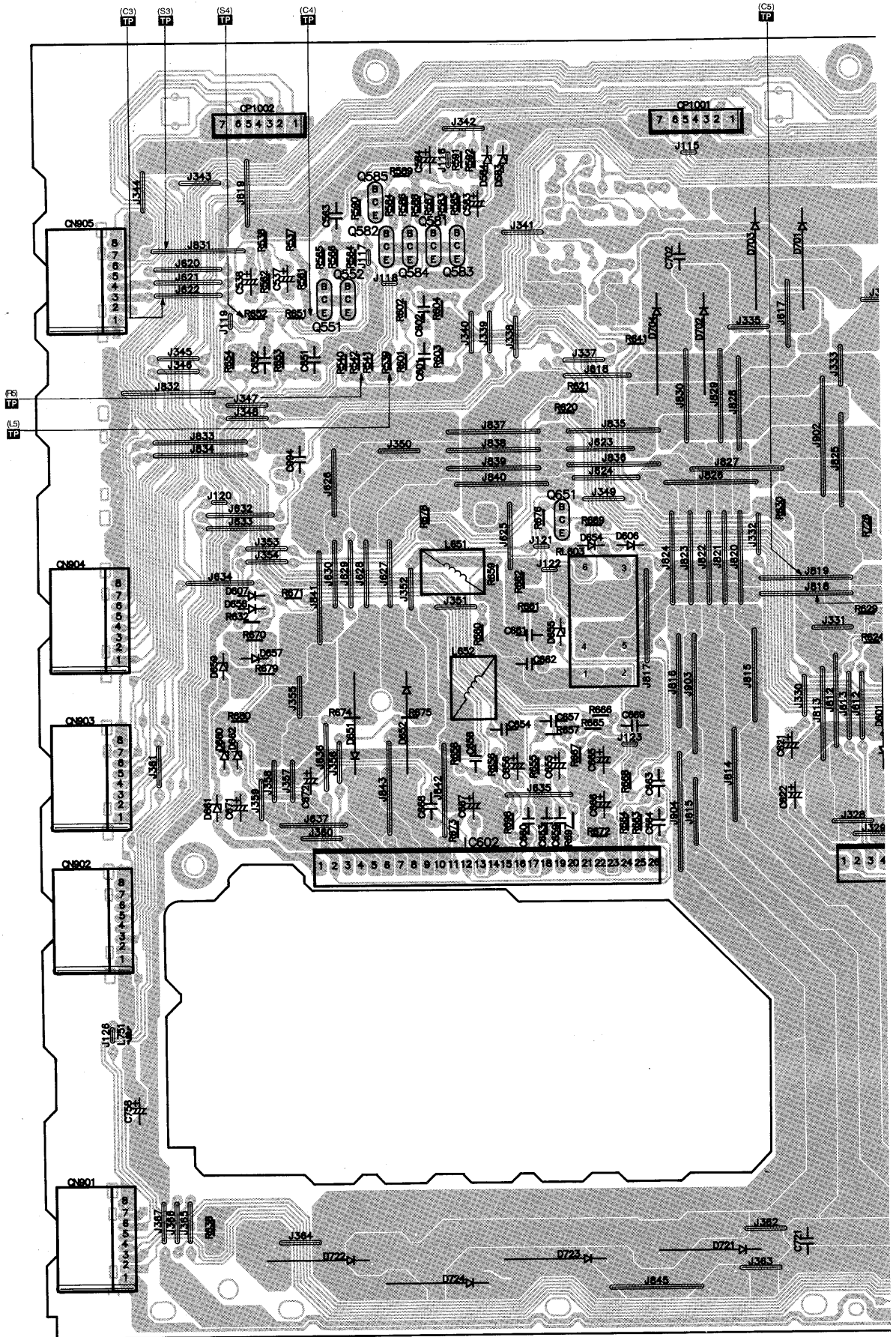


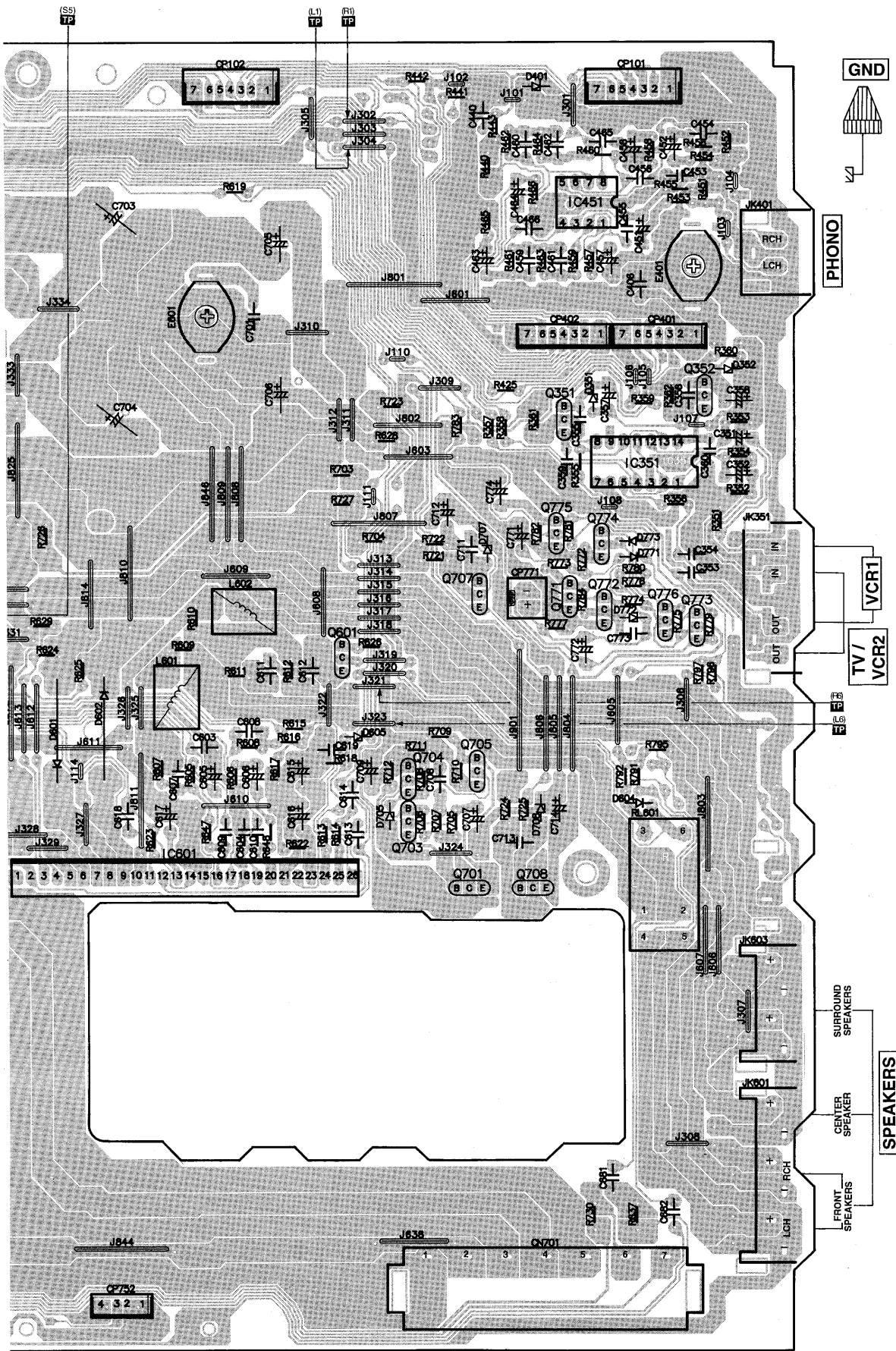


H OPERATION P.C.B.
(REP2333A-S)

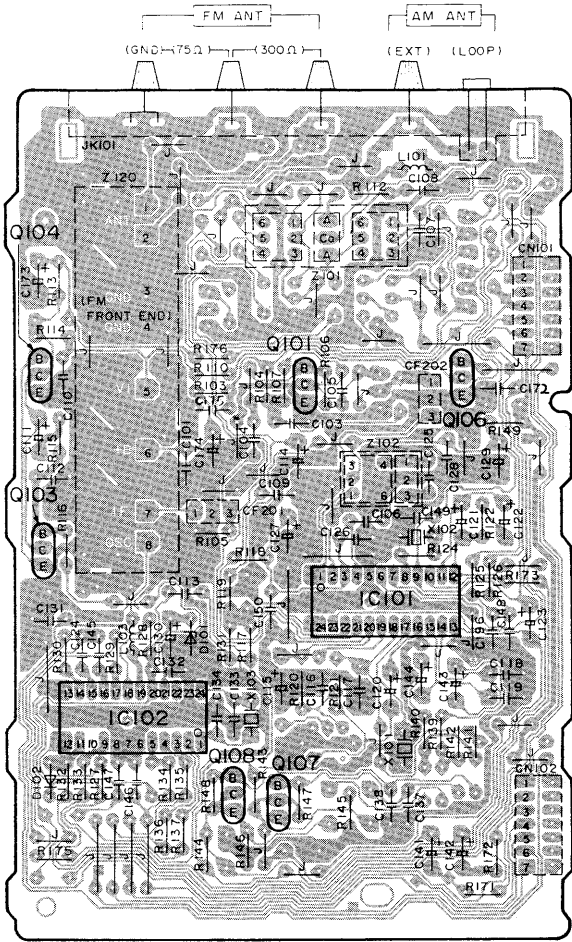


E MAIN P.C.B. (REP2332A-M)

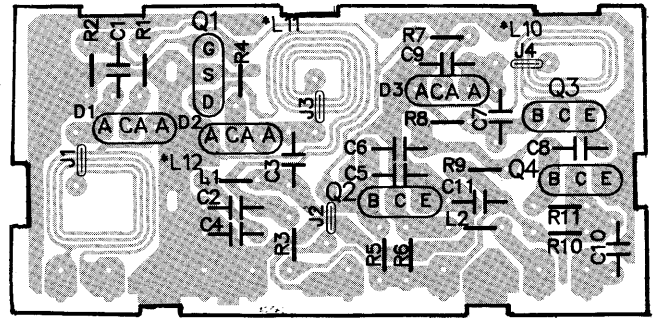




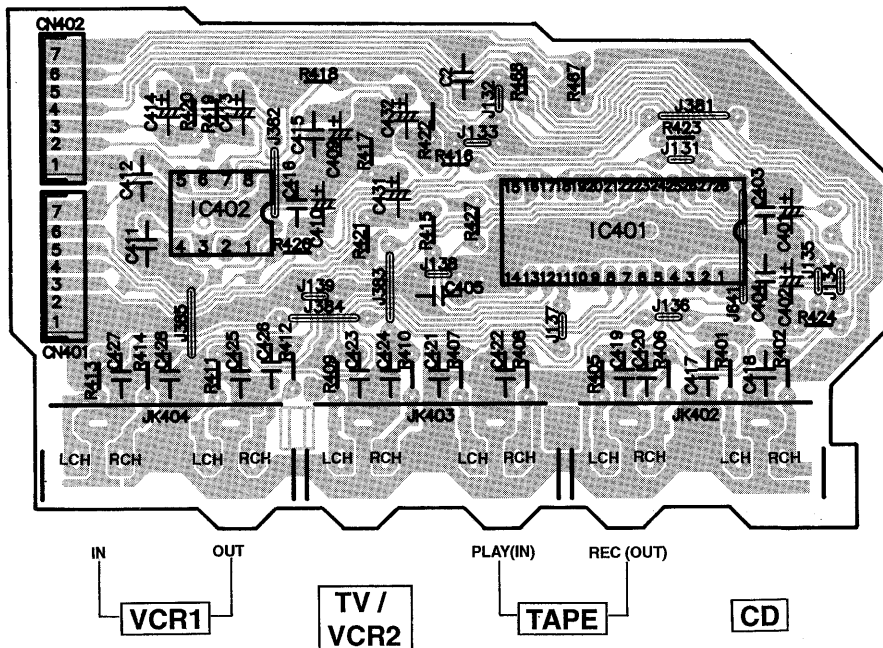
A TUNER P.C.B. (REP2254A-T)



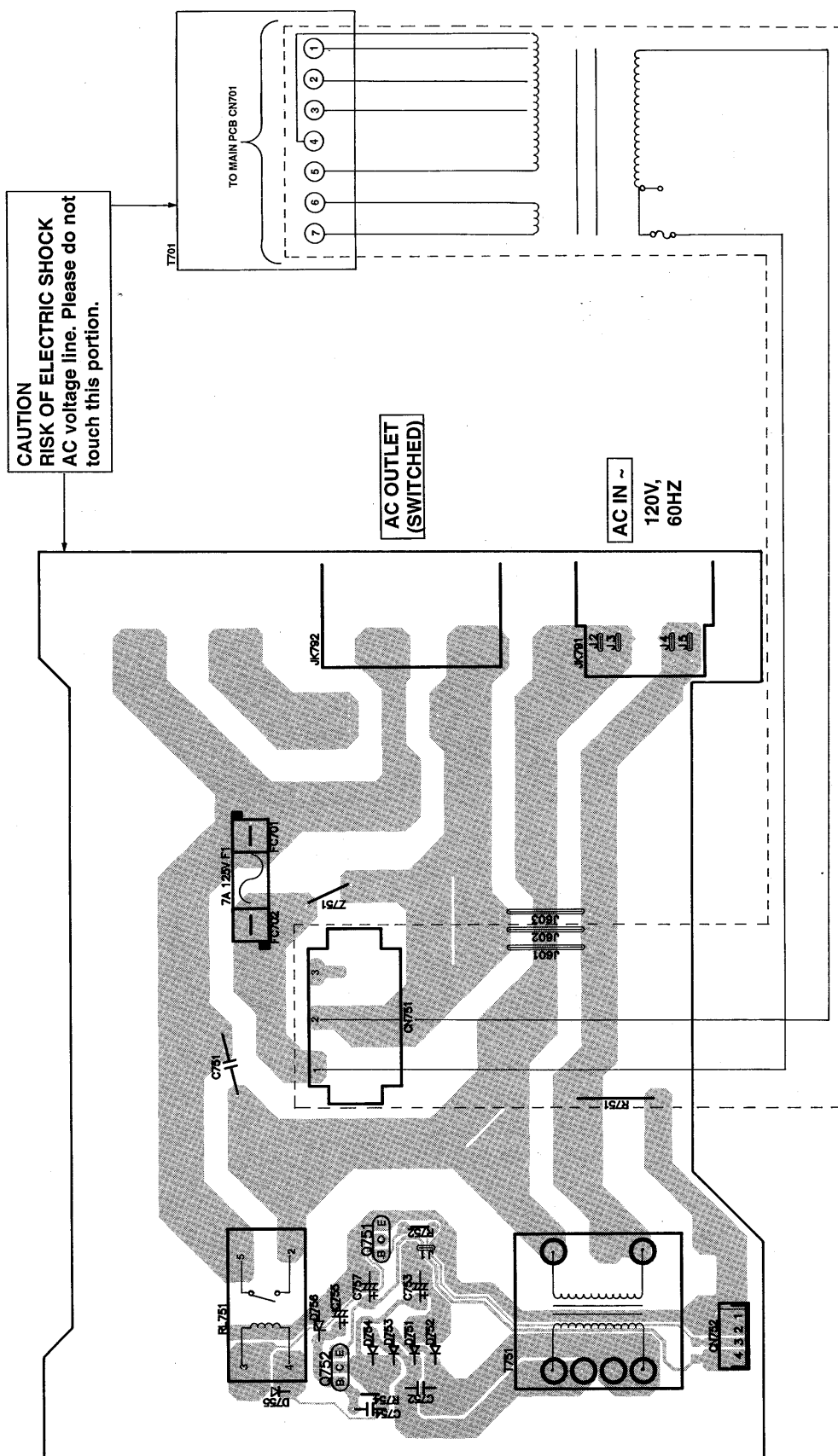
J TUNER PACK P.C.B. (REP1999B)



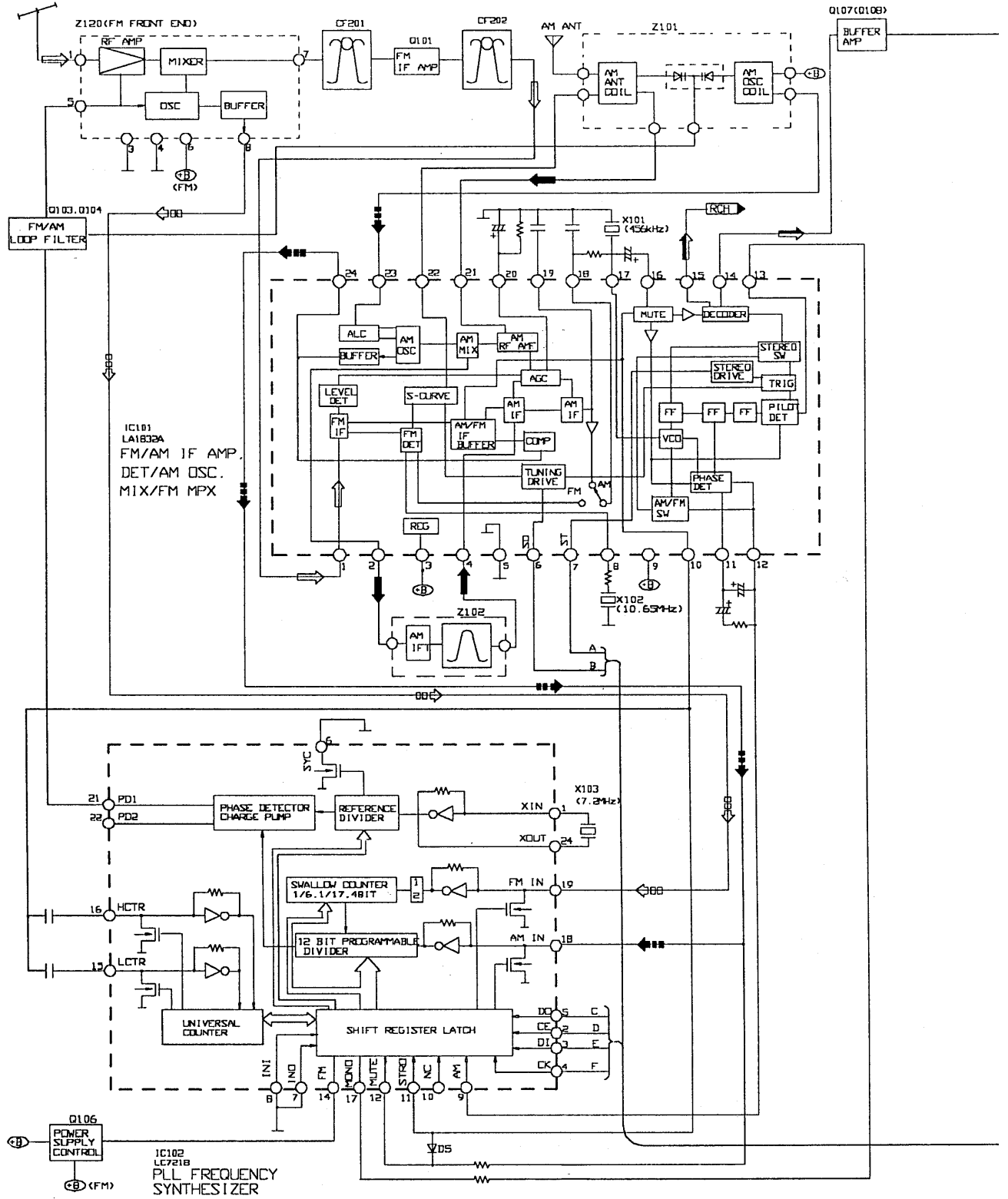
I IN/OUT TERMINAL P.C.B. (REP2332A-M)

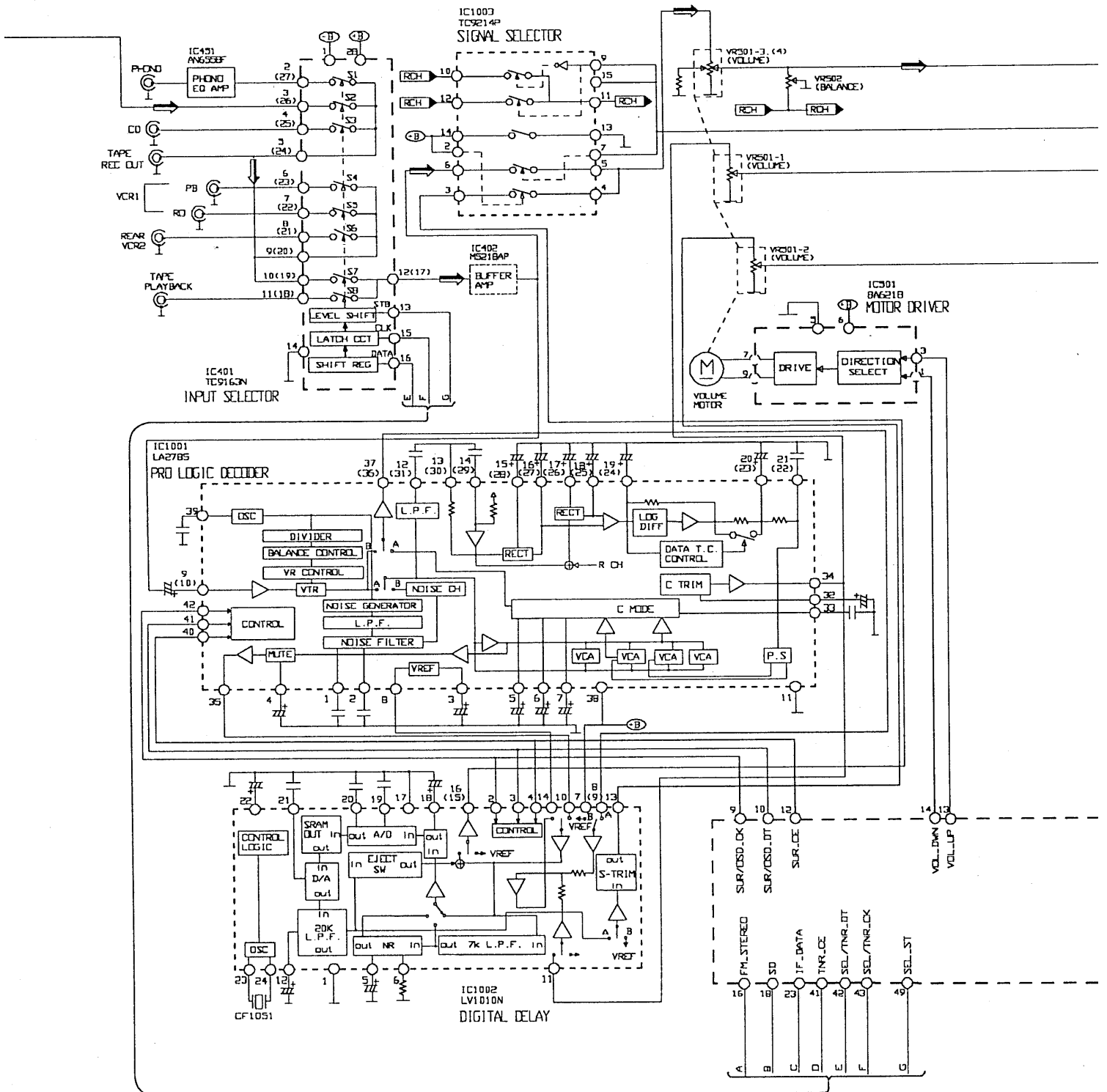


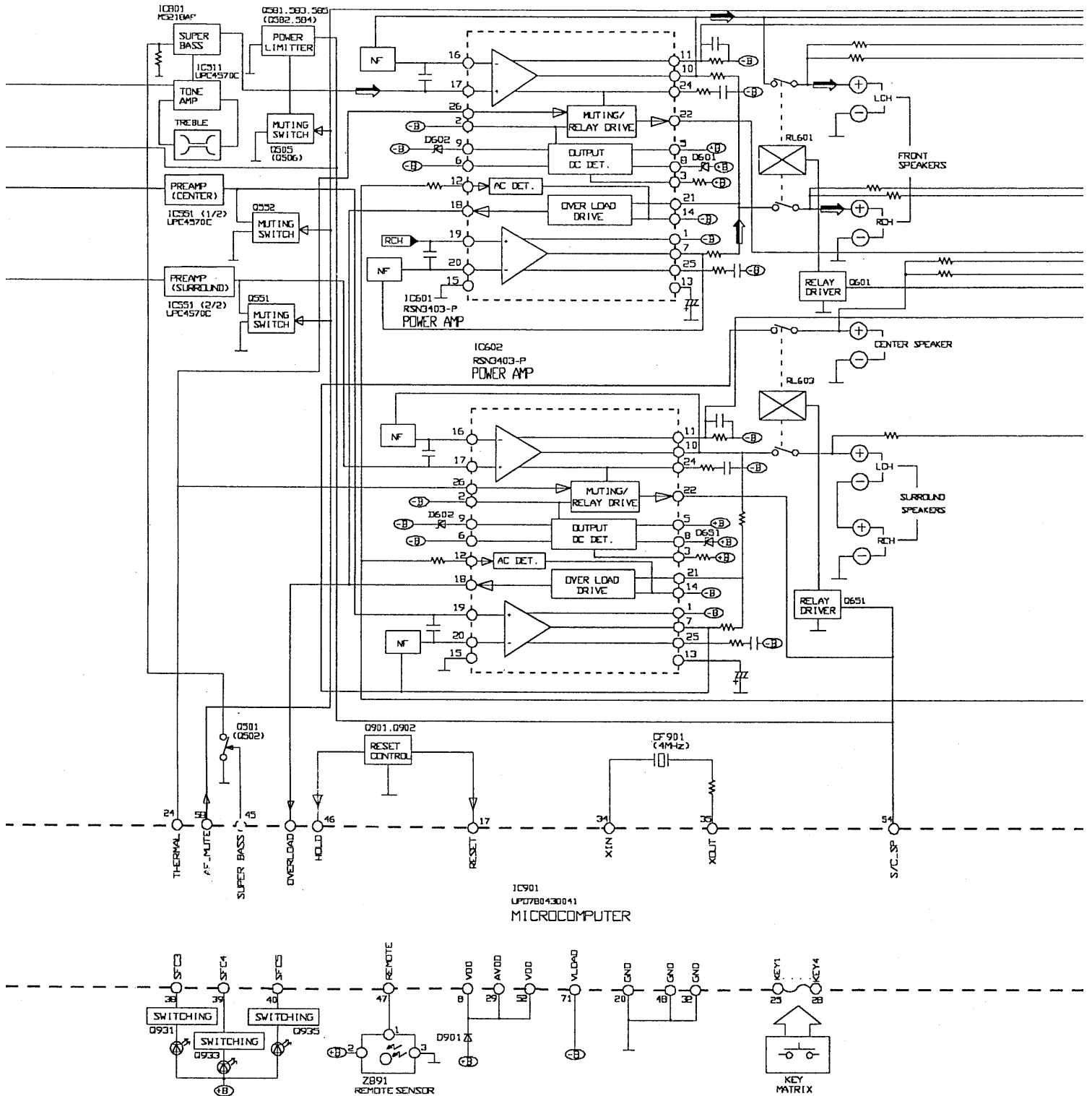
F POWER SUPPLY P.C.B.
(REP2334A-P)

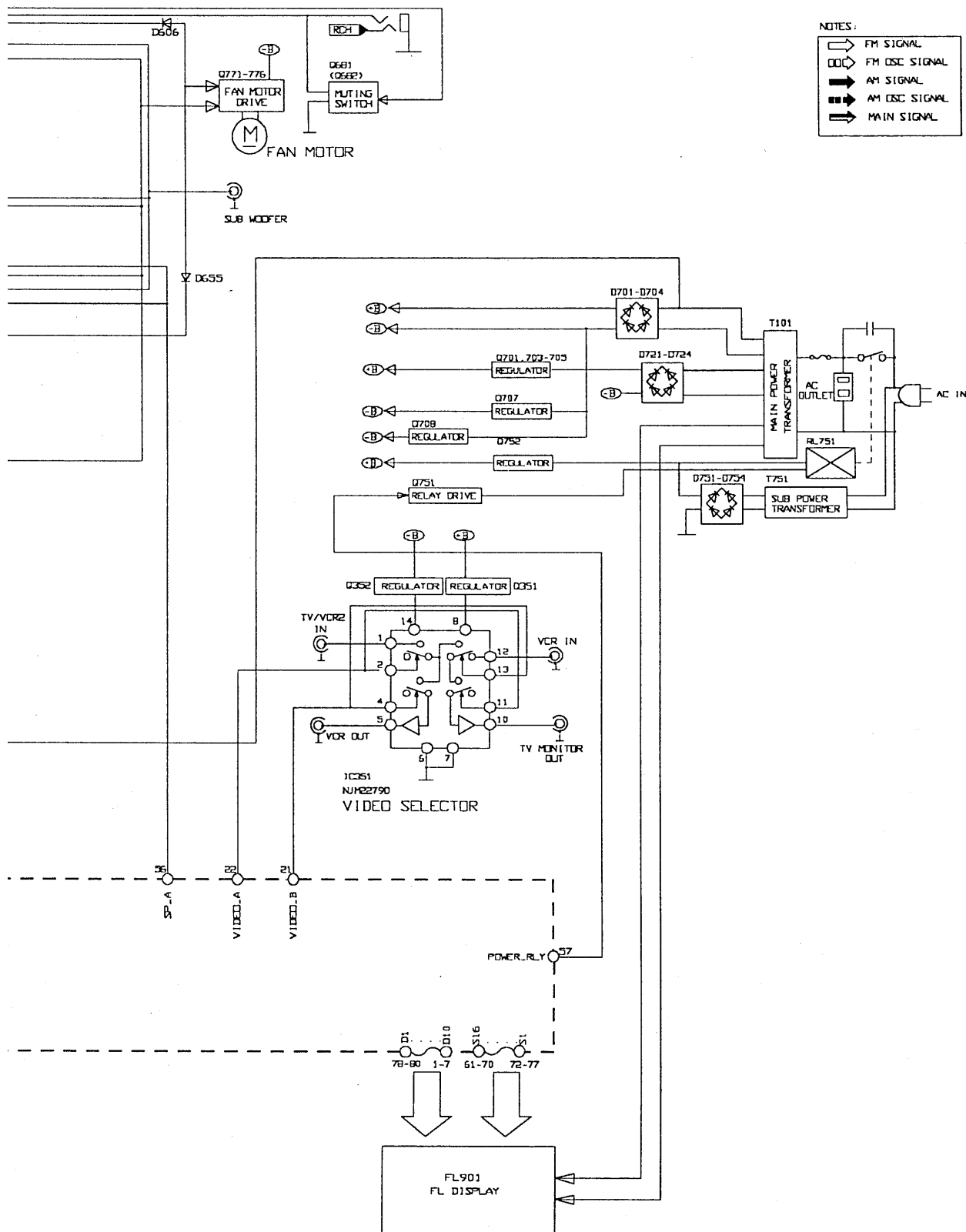


■ Block Diagram

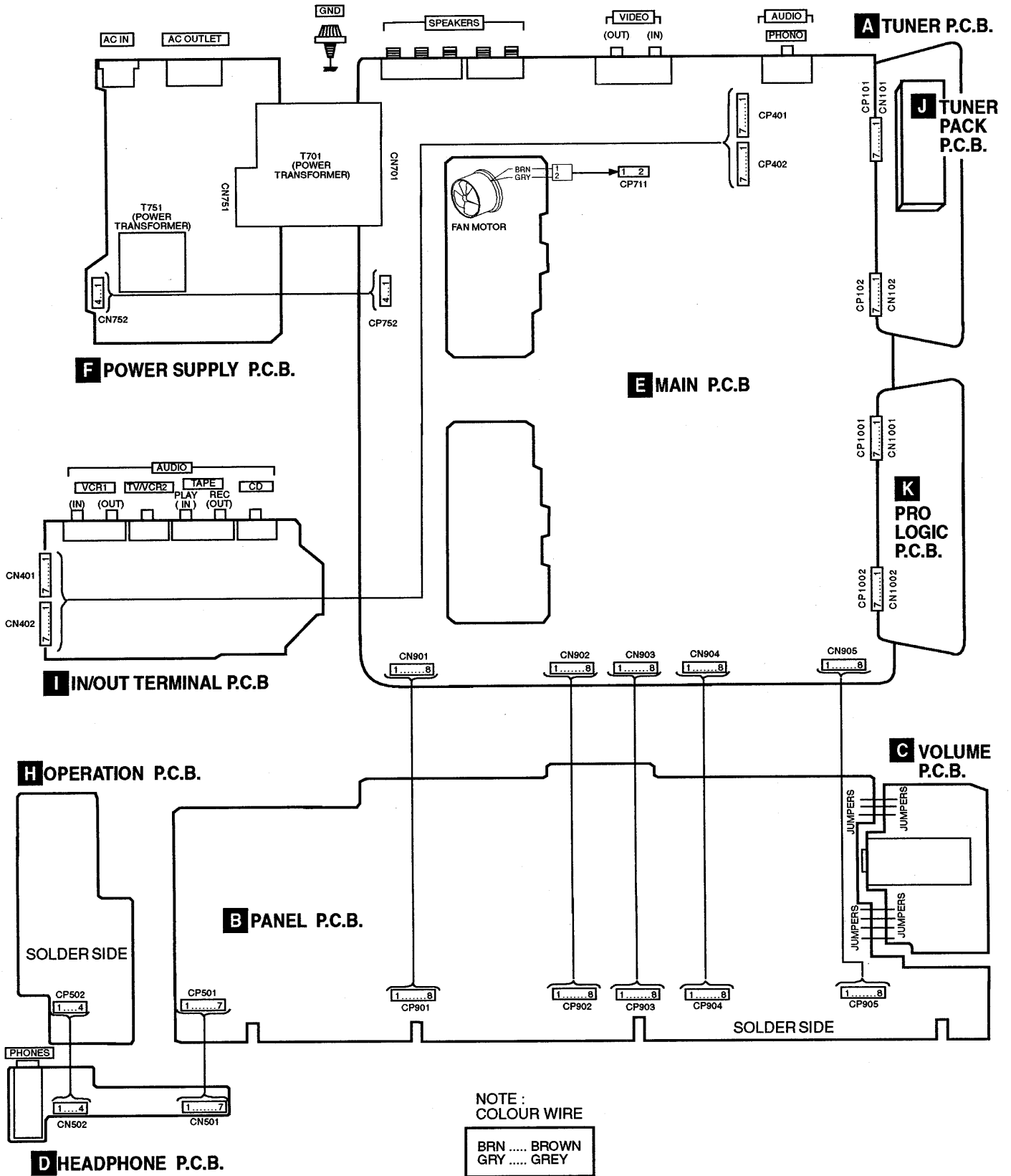








Wiring Connection Diagram



■ Schematic Diagram

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

Note :








< for Operation circuit > (Page 35)

- S949 : Power switch
- S980 : Speakers on/off switch
- S983 : Dolby Pro Logic / SFC on/off switch
- S984 : Dolby Pro Logic mode select switch
- S985 : SFC mode select switch

< for Panel circuit and Volume circuit > (Page 37 ~ 38)

- S947 : Phono select switch
- S950 : FM Auto / Mono switch
- S951 : Band select switch
- S952 : Tuning decrease switch
- S953 : Tuning increase switch
- S954 : Memory manual/auto switch
- S956 : Preset decrease switch
- S957 : Preset increase switch
- S960 : Tuner select switch
- S961 : CD select switch
- S962 : Tape monitor select switch
- S963 : TV / VCR2 select switch
- S964 : VCR1 select switch
- S982 : Super bass select switch
- S986 : Center mode select switch
- VR501-1 ~ VR501-4 : Volume control
- VR502 : Balance control
- VR511-1 ~ VR511-2 : Bass control
- VR512-1 ~ VR512-2 : Treble control

• Signal line

	: +B line		: FM signal line		: FM OSC signal line
	: -B line		: AM signal line		
	: Main signal line		: AM OSC signal line		


•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.

() AM

< > FM

•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.
- Ground the soldering iron.
- Do not touch the pins of IC, LSI or VLSI with fingers directly.
- Put a conductive mat on the work table.


CAUTION : FOR CONTINUED PROTECTION AGAINST FIRE HAZARD, REPLACE ONLY WITH SAME TYPE F1 7.0A 125V FUSE.



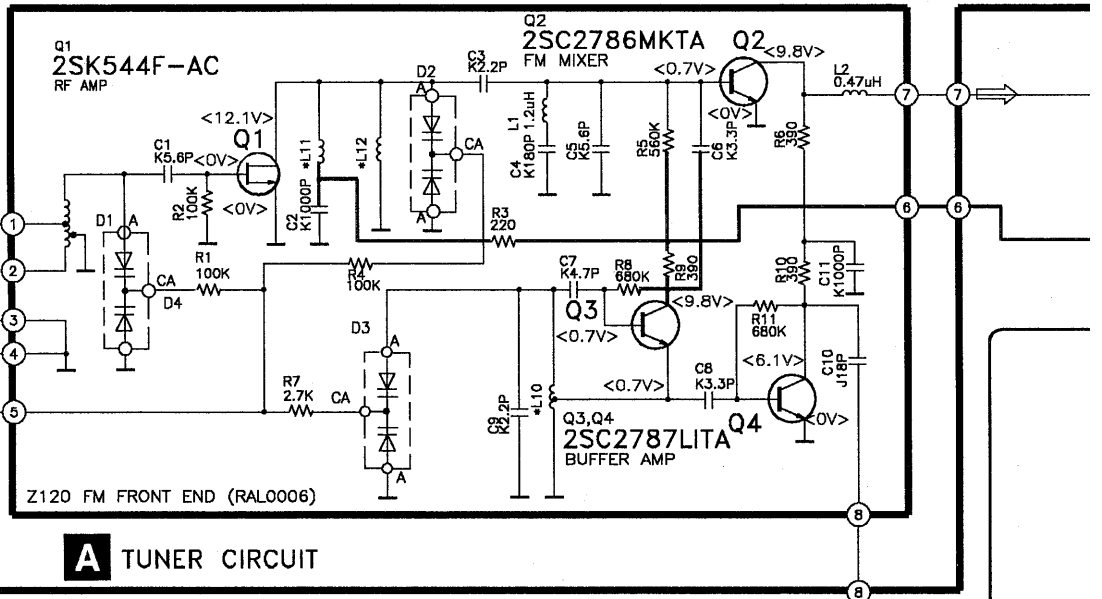
RISK OF FIRE-REPLACE FUSE AS MARKED.

FUSE CAUTION

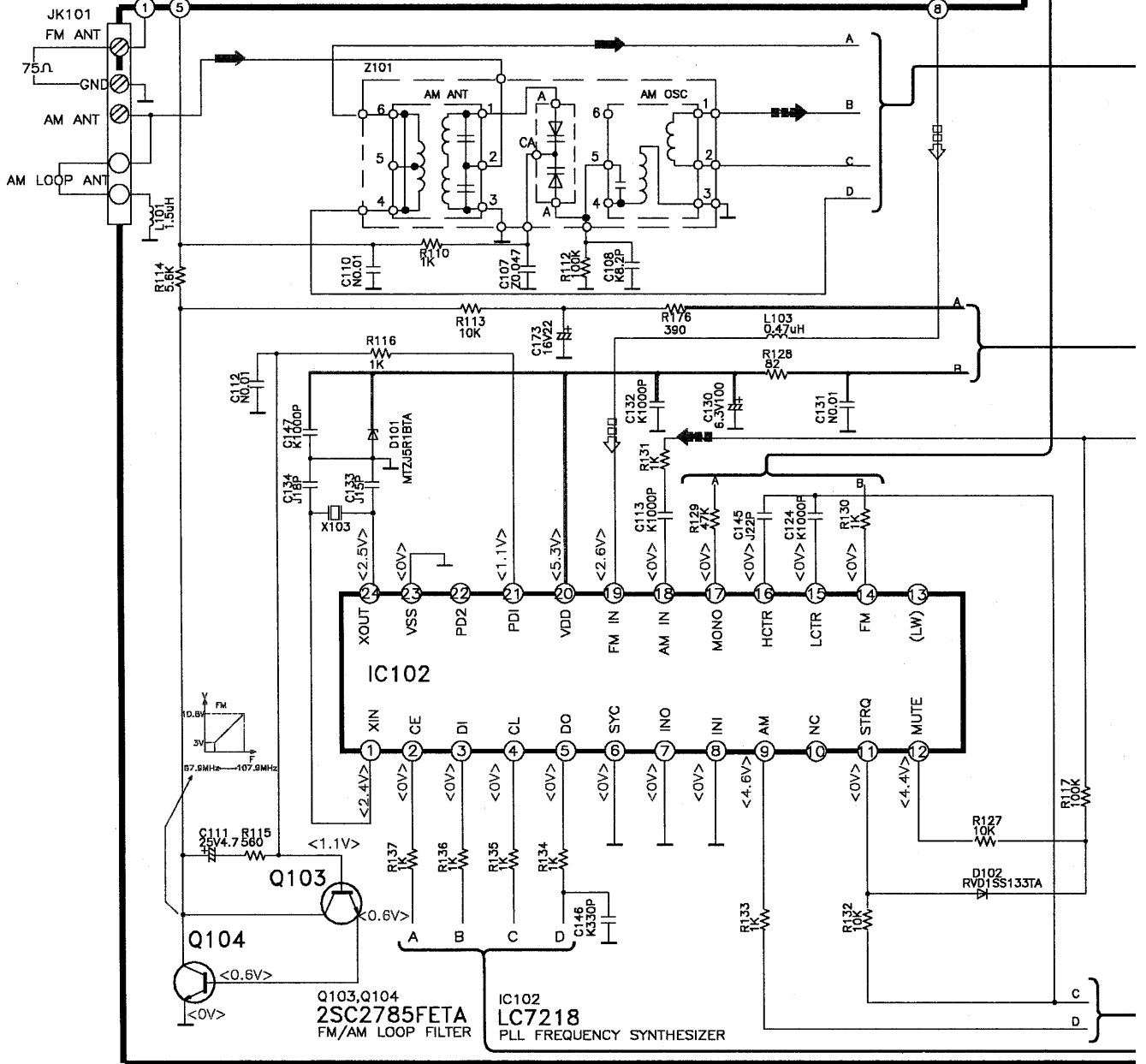
 These symbols located near the fuse indicates that the fuse used is a fast operating type. For continued protection against fire hazard, replace with the same type fuse. For fuse rating, refer to the marking adjacent to the symbol.

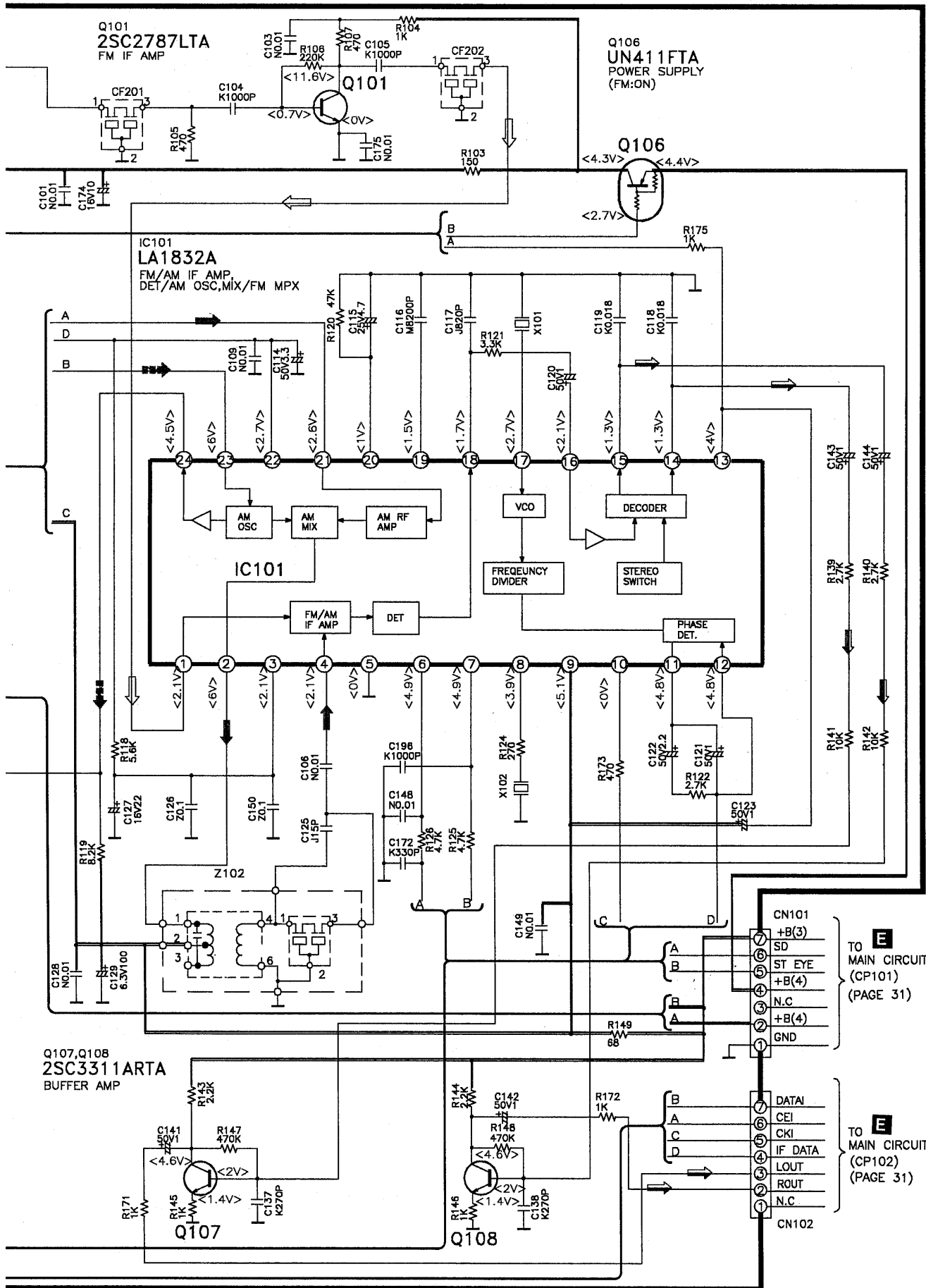
 Ce symbole indique que le fusible utilisé est à rapide. Pour une protection permanente, n' utiliser que des fusibles de même type. Ce dernier est indiqué là où le présent symbole est apposé.

J TUNER PACK CIRCUIT

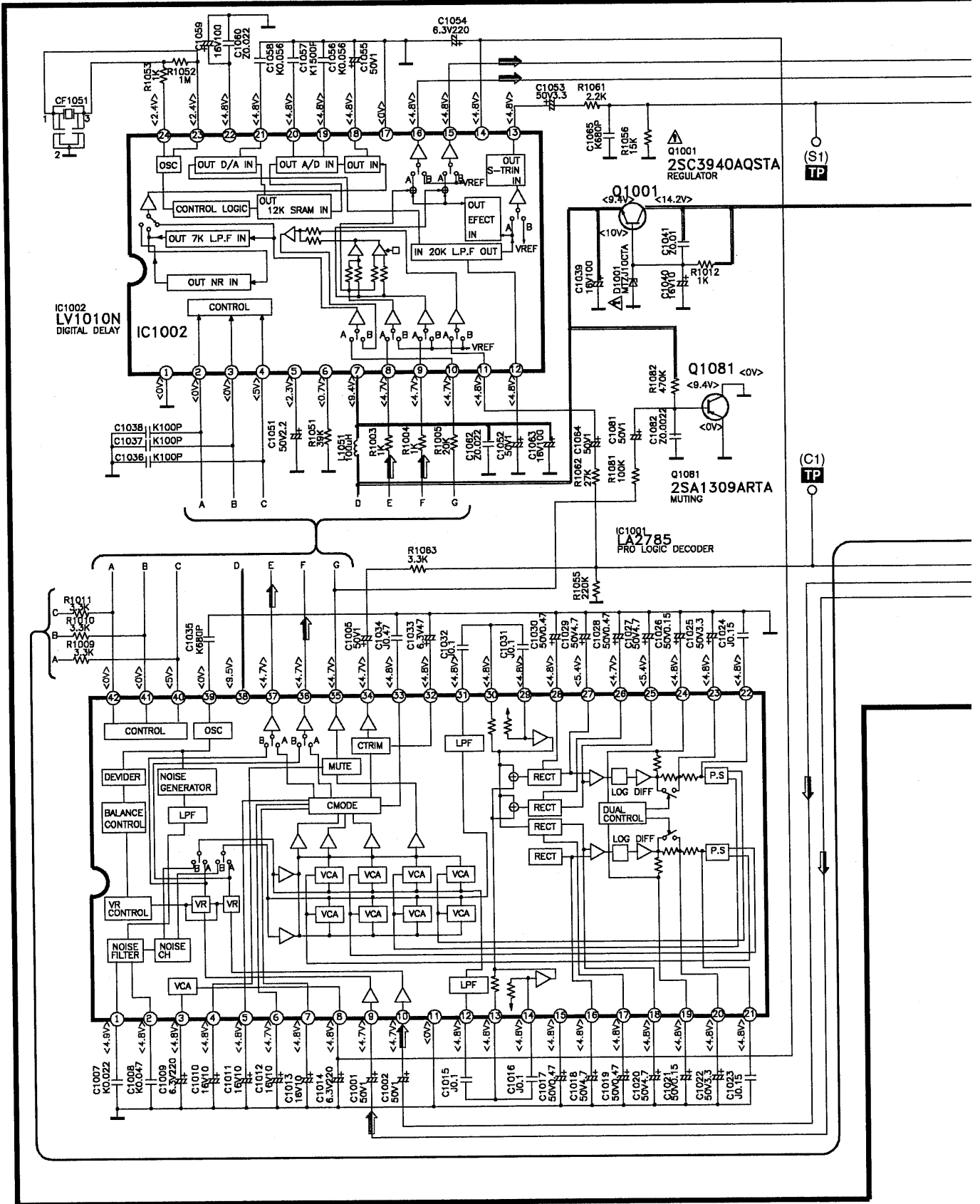


A TUNER CIRCUIT

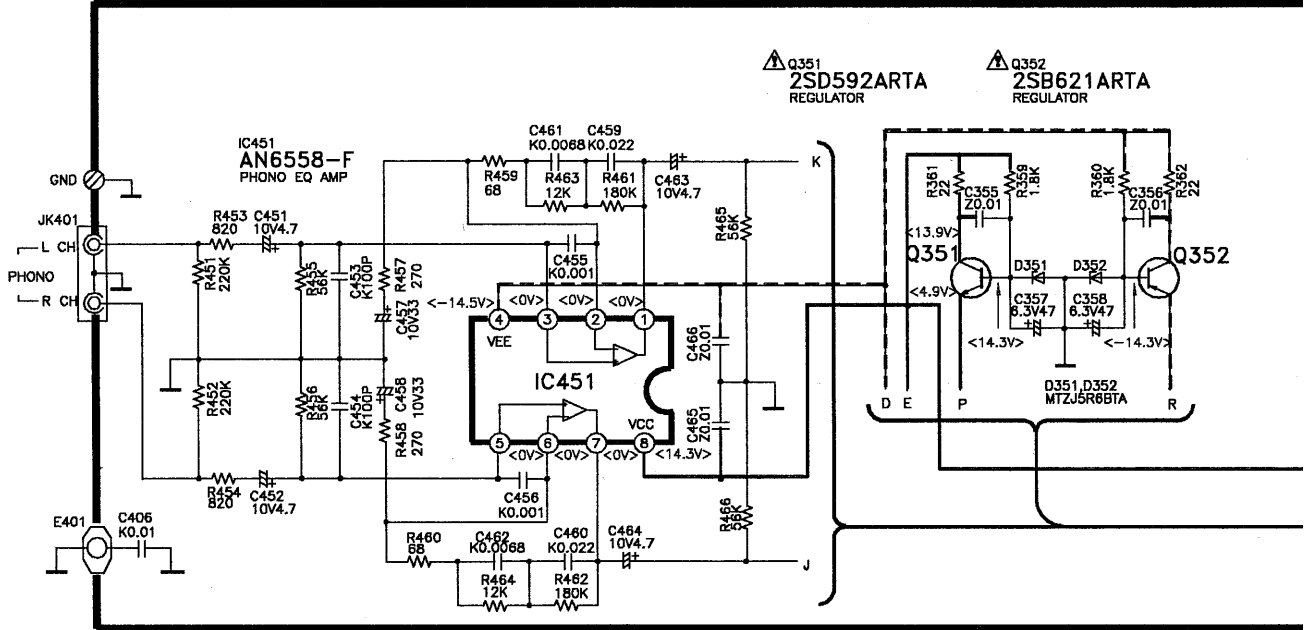




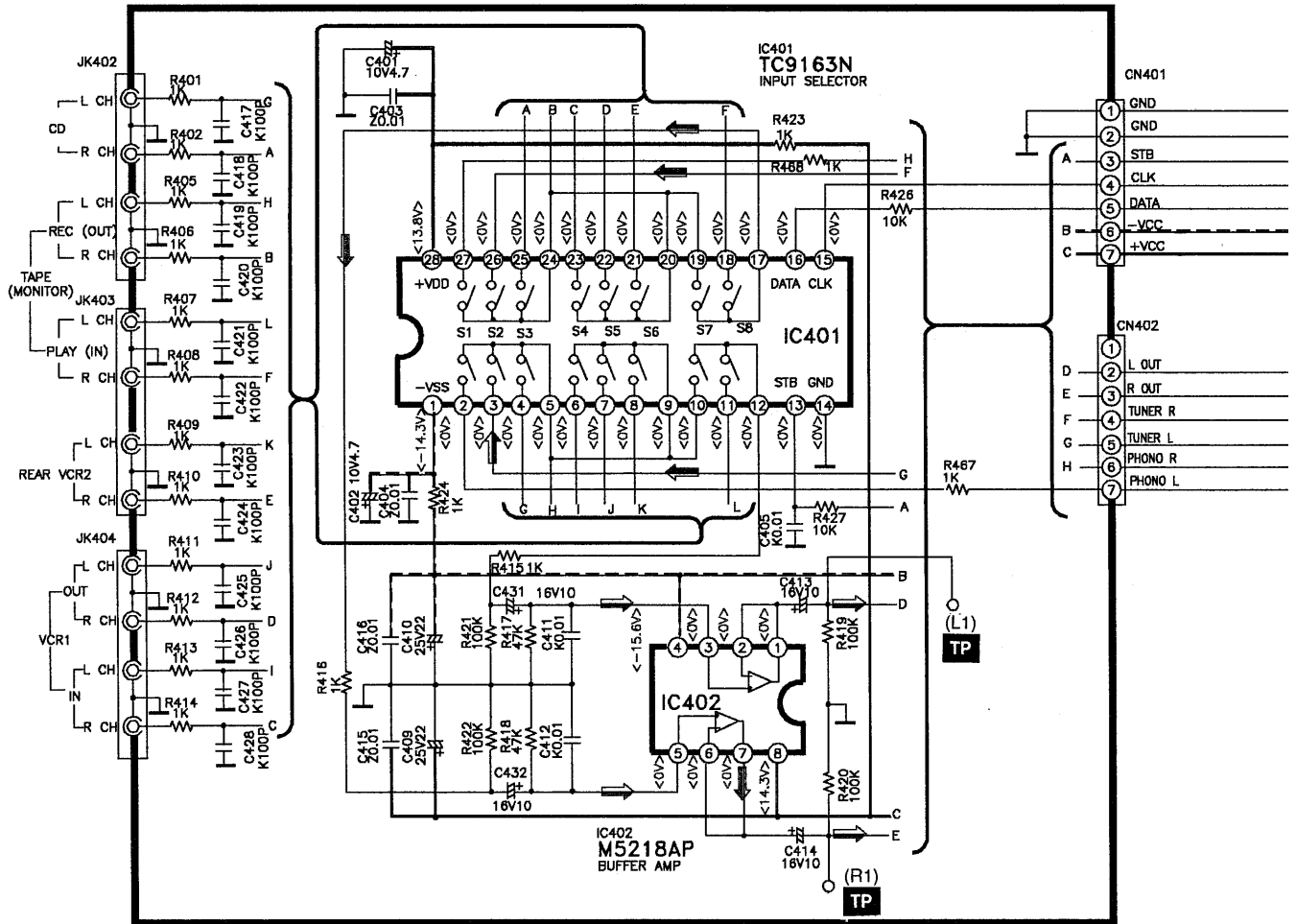
K PRO LOGIC CIRCUIT

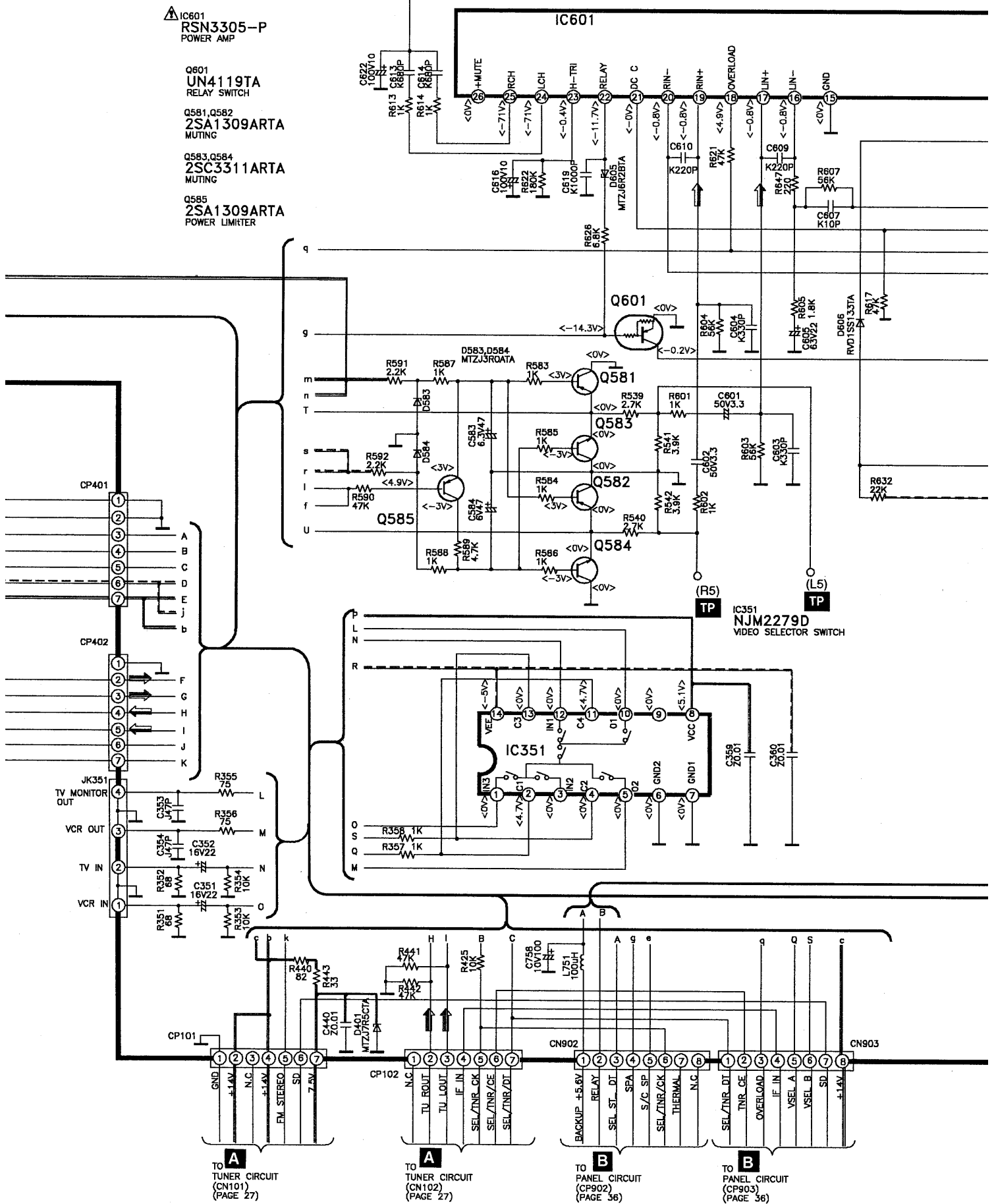


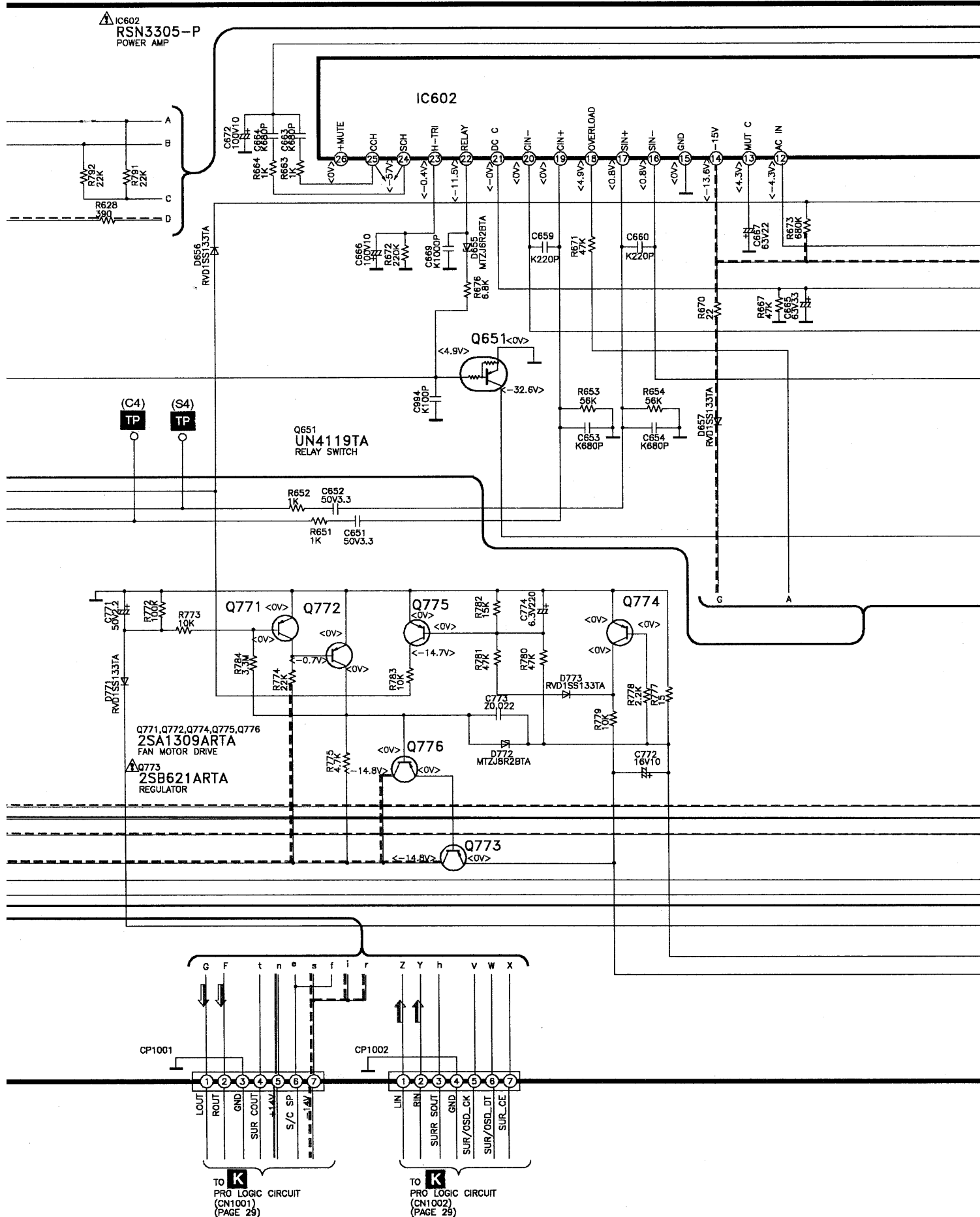
E MAIN CIRCUIT

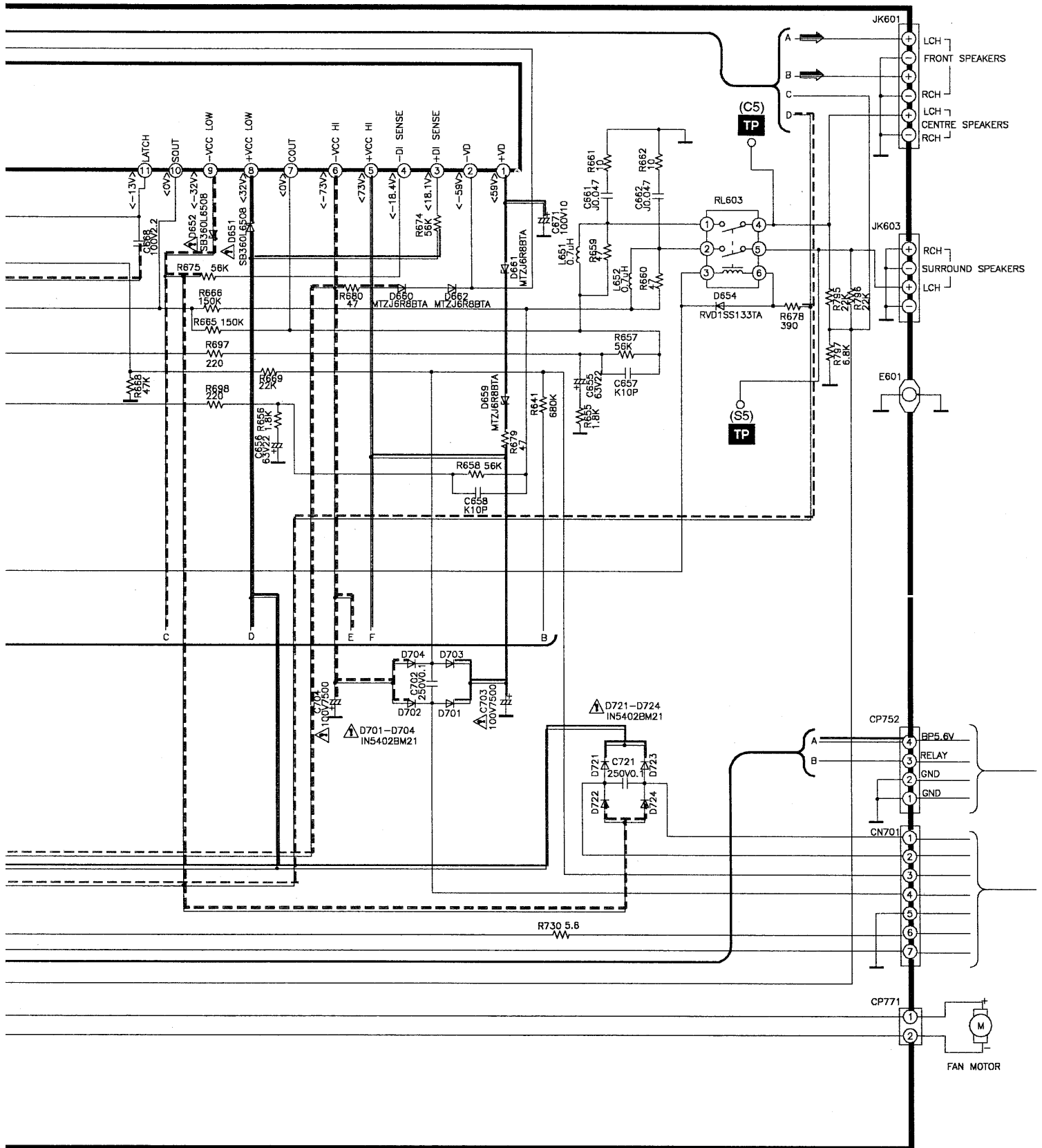


I IN/OUT TERMINAL CIRCUIT

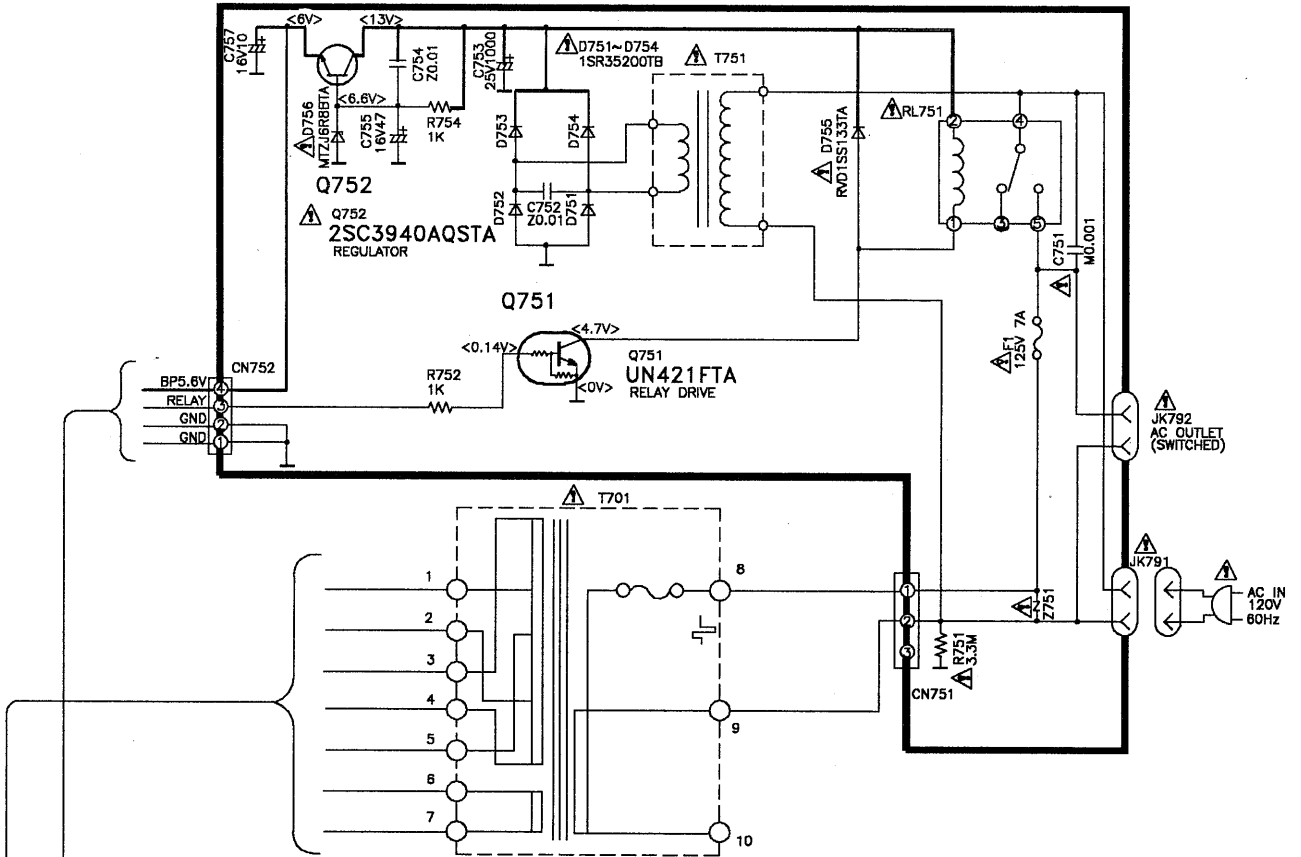




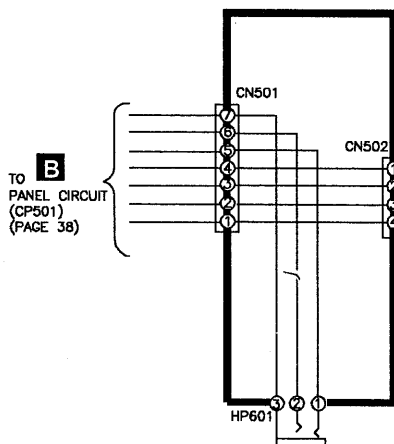




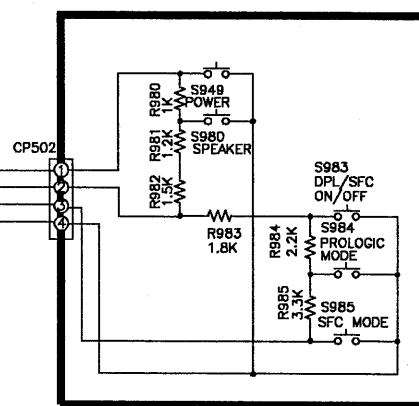
F POWER CIRCUIT



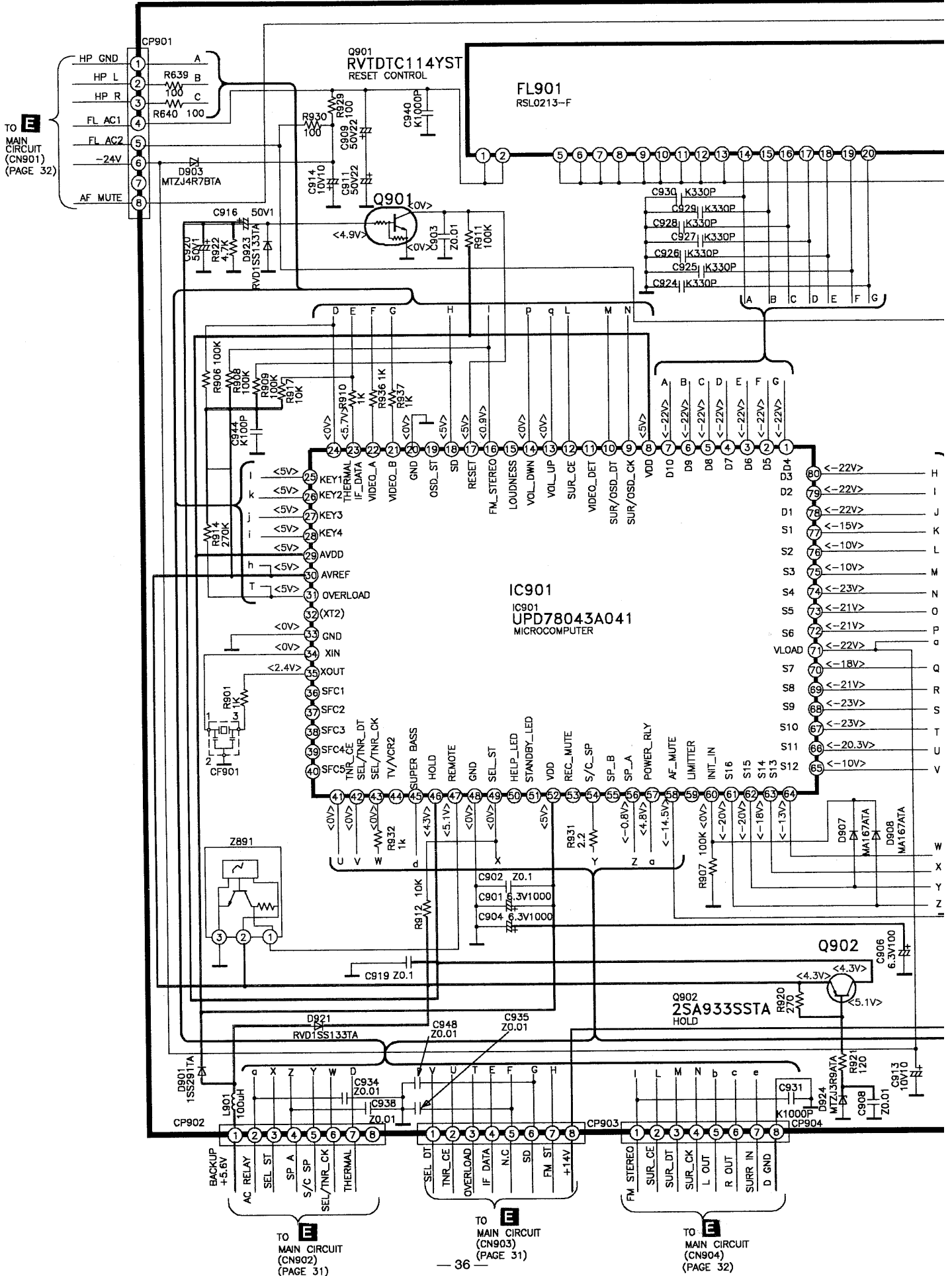
D HEADPHONE CIRCUIT

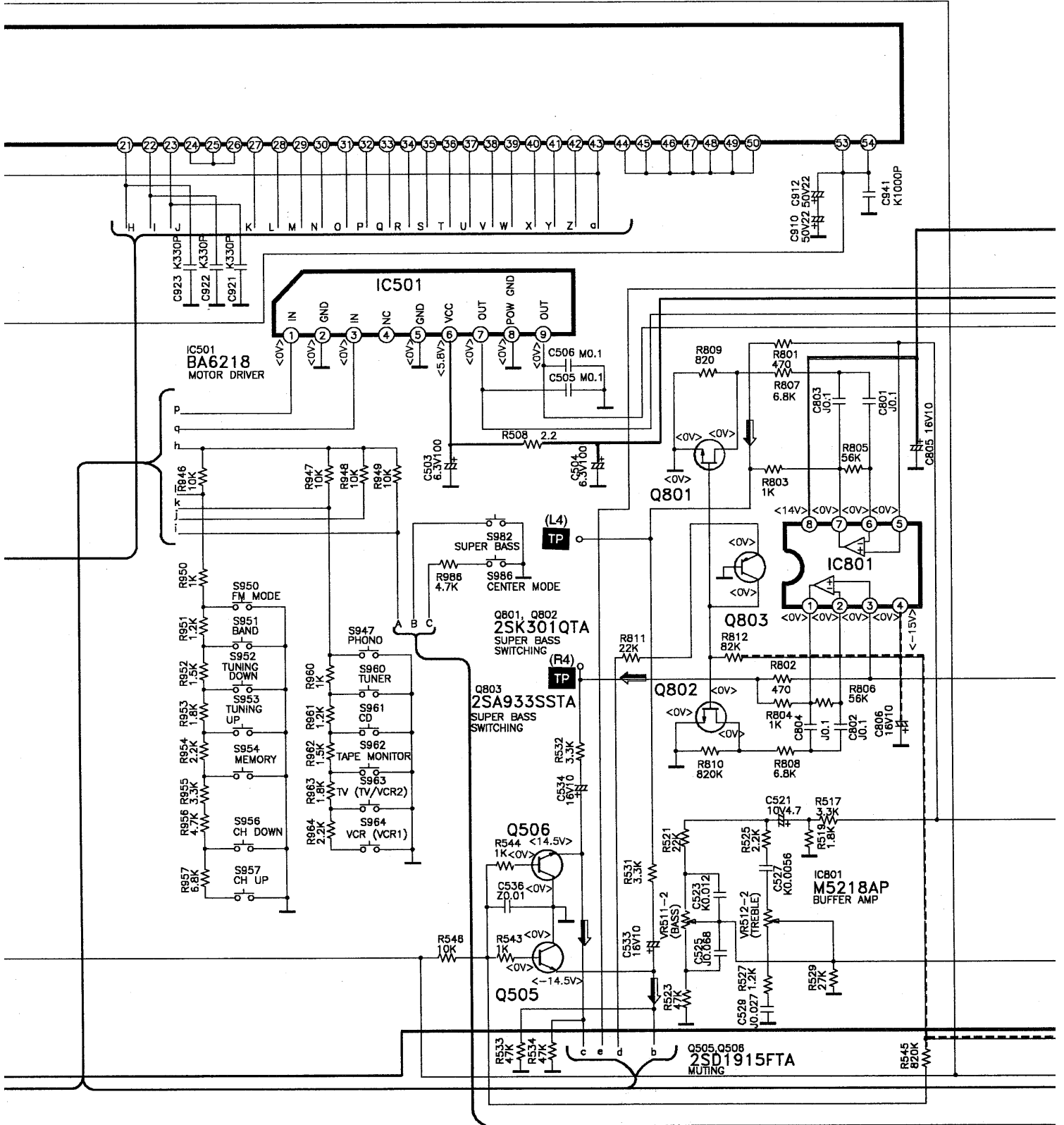


H OPERATION CIRCUIT

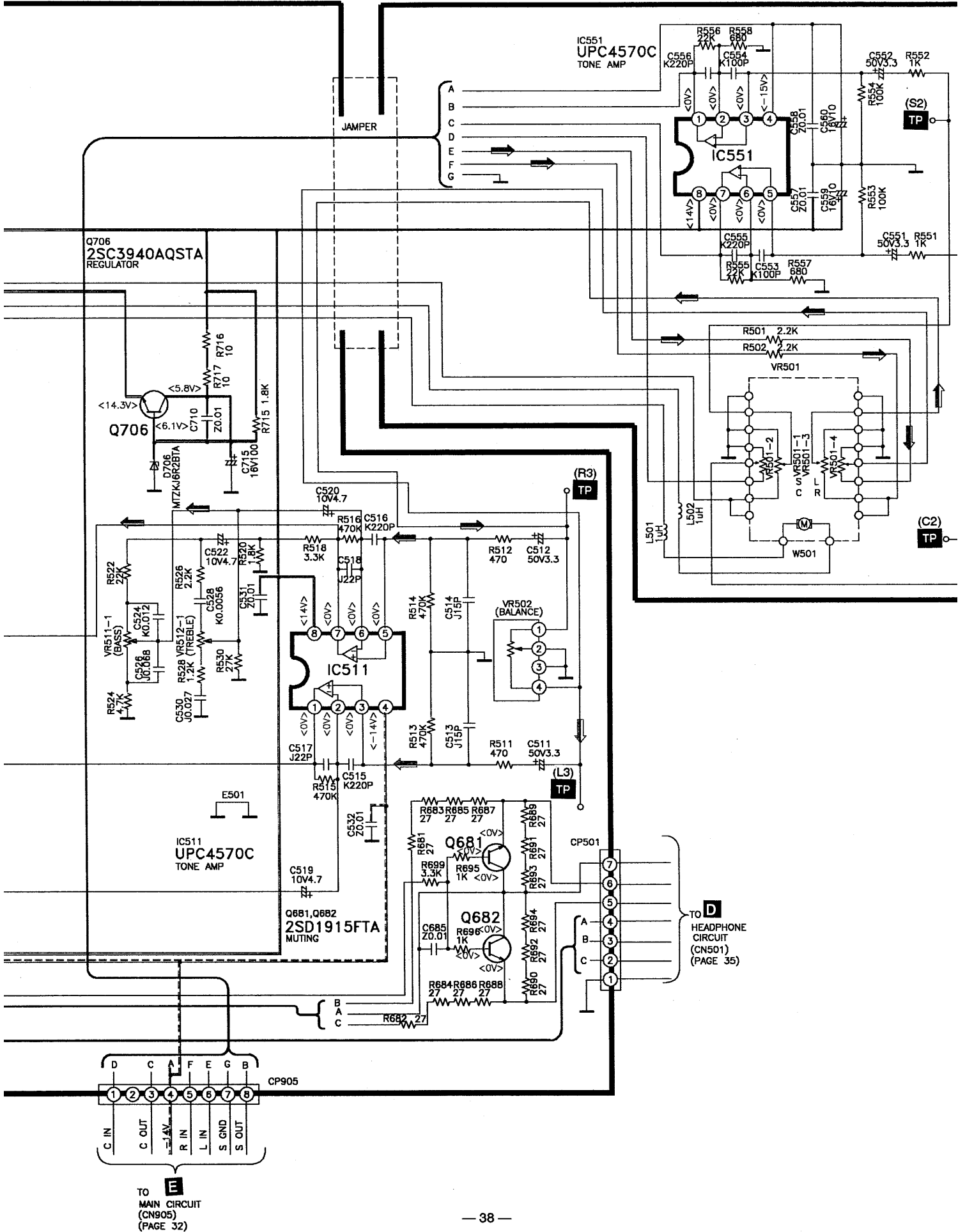


B PANEL CIRCUIT

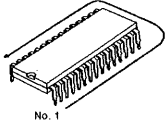
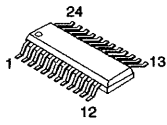
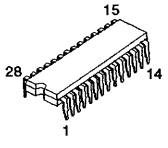
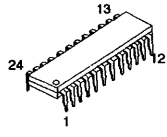
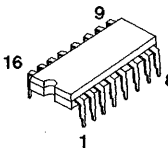
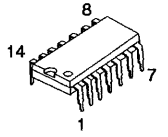
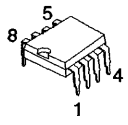
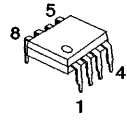
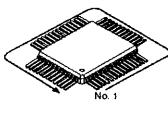
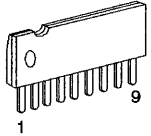
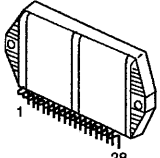
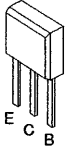
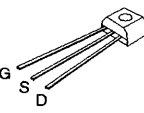
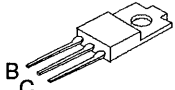
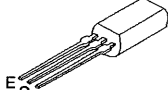
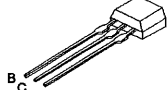
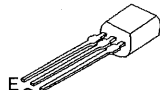
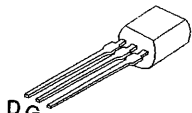
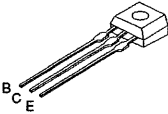
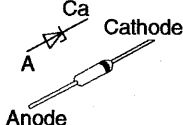
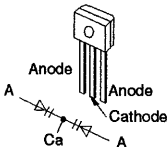
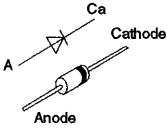
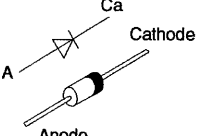
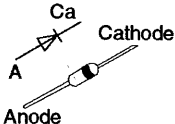




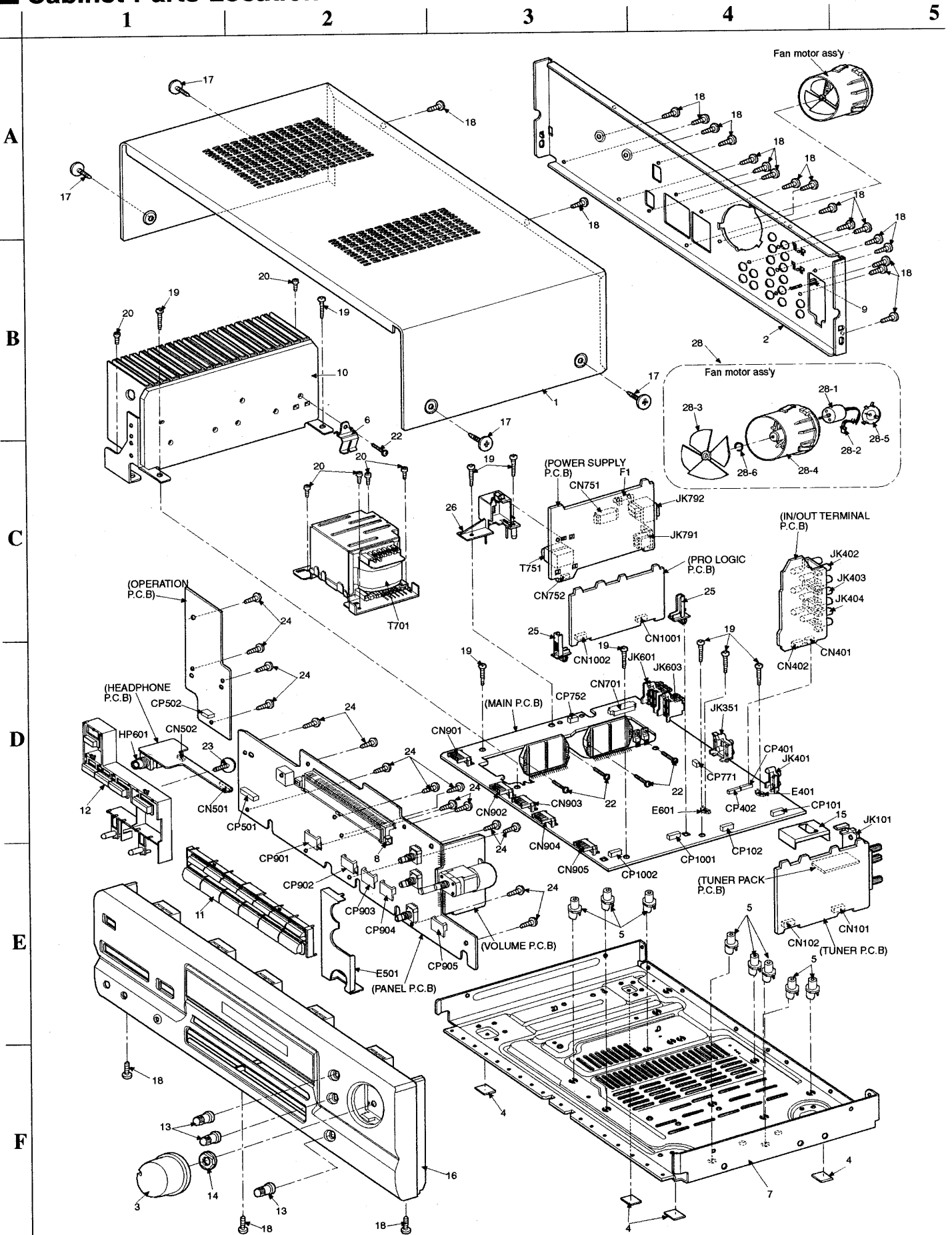
C VOLUME CIRCUIT



Terminal Guide of ICs, Transistors and Diodes


<p>LA2785 (42 PIN)</p> 	<p>LA1832A LC7218</p> 	<p>TC9163N</p> 	<p>LV1010N</p> 	<p>TC9214P</p> 	<p>NJM2279D</p> 
<p>AN6558-F UPC4570C</p> 	<p>M5218AP</p> 	<p>UPD78043A041 (80 PIN)</p> 	<p>BA6218</p> 	<p>RSN3305-P</p> 	<p>2SC3311ARTA</p> 
<p>2SK544F-AC</p> 	<p>2SB1548PQAU 2SD2374PQAU</p> 	<p>2SC3940AQSTA</p> 	<p>2SA933SSTA RVTDTTC114YST</p> 	<p>2SB621ARTA 2SD592ARTA</p> 	<p>2SK301QTA</p> 
	<p>2SC2787LTA 2SD1915FTA UN4119TA UN411FTA UN421FTA</p>	<p>2SA1309ARTA 2SC2785FETA 2SC2786MTA 2SC2787FL1TA</p>		<p>MTZJ10CTA MTZJ15CTA MTZJ30DTA MTZJ3R0ATA MTZJ3R9ATA MTZJ4R7BTA</p>	<p>MTZJ5R1BTA MTZJ5R6BTA MTZJ6R2BTA MTZJ6R8BTA MTZJ7R5CTA MTZJ8R2BTA</p>
<p>SVC211SPA-AL</p> 	<p>1N5402BM21</p> 	<p>SB360L6508</p> 		<p>1SR35200TB 1SS291TA MA167ATA MA700ATA RVD1SS133TA</p>	

Cabinet Parts Location



■ Replacement Parts List

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 components, be sure to use only manufacturer's specified parts shown in the parts list.

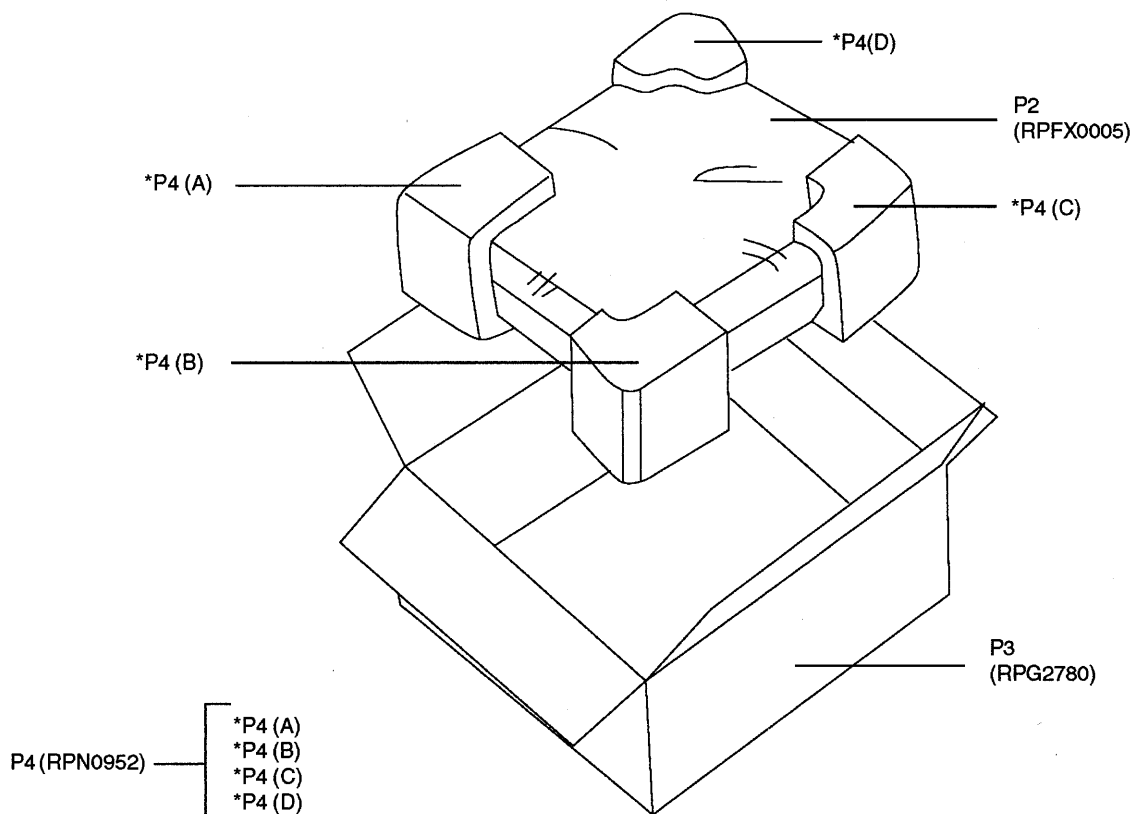
- [M] in Remarks column indicates parts that are supplied by **MESA**.
- [MAV] in Remarks column indicates parts that are supplied by **MAV**.

RefNo.	Part No.	Part Name & Description	Remarks	Ref No.	Part No.	Part Name & Description	Remarks	Ref No.	Part No.	Part Name & Description	Remarks
		CABINET AND CHASSIS		IC451	AN6558-F	IC, PHONO EQ AMP	[M]	Q705	2SC3311ARTA	TRANSISTOR	
				IC501	BA6218	IC, MOTOR DRIVER		Q706	2SC3940AQSTA	TRANSISTOR	
1	RKM0325B-K	CABINET	[MAV]	IC511	UPC4570C	IC, TONE CONTROL		Q707	2SB621ARTA	TRANSISTOR	
2	RGR0237B-A	REAR PANEL	[MAV]	IC551	UPC4570C	IC, TONE CONTROL		Q708	2SB1548PQAU	TRANSISTOR	
3	RGW0243B-K	VOLUME KNOB	[MAV]	IC601	RSN3305-P	IC, HIC	[MAV] 	Q751	UN421FTA	TRANSISTOR	
4	SKL293	LEG CUSHION		IC602	RSN3305-P	IC, HIC	[MAV] 	Q752	2SC3940AQSTA	TRANSISTOR	
5	RKQ0089	PCB HOLDER		IC801	M5218AP	IC, BUFFER AMP		Q771	2SA1309ARTA	TRANSISTOR	
6	RMC0158-S	TR FIXTURE	[M]	IC901	UPD78043A041	IC, MICRO COMPUTER	[MAV]	Q772	2SA1309ARTA	TRANSISTOR	
7	RMK0313	BOTTOM CHASSIS	[MAV]	IC1001	LA2785	IC, P. LOGIC DECODER		Q773	2SB621ARTA	TRANSISTOR	
8	RMN0372	FL HOLDER	[MAV]	IC1002	LV1010N	IC, DIGITAL DELAY		Q774	2SA1309ARTA	TRANSISTOR	
9	SNE2123	EARTH TERMINAL		IC1003	TC9214P	IC, SELECTOR SWITCH		Q775	2SA1309ARTA	TRANSISTOR	
10	RXX0166	HEAT SINK UNIT	[MAV]					Q776	2SA1309ARTA	TRANSISTOR	
11	RGU1365A-K	SELECTOR BUTTON	[MAV]			TRANSISTORS		Q801	2SK301QTA	TRANSISTOR	[M]
12	RGU1366-K	FUNCTION BUTTON	[MAV]					Q802	2SK301QTA	TRANSISTOR	[M]
13	RGW0216-K	TONE KNOB		Q1	2SK544F-AC	TRANSISTOR		Q803	2SA933SSSTA	TRANSISTOR	
14	RHN90001	M9 NUT		Q2	2SC2786MTA	TRANSISTOR		Q901	RVTDC114YST	TRANSISTOR	
15	RSC0027	TUNER PACK		Q3	2SC2787FL1TA	TRANSISTOR		Q902	2SA933SSSTA	TRANSISTOR	
16	RFKGSAG76PPK	FRONT PANEL ASS'Y	[MAV]	Q4	2SC2787FL1TA	TRANSISTOR		Q1001	2SC3940AQSTA	TRANSISTOR	
17	SNE2129-1	SCREW (CABINET)		Q101	2SC2787LTA	TRANSISTOR		Q1081	2SA1309ARTA	TRANSISTOR	
18	XTBS3+8JFZ1	SCREW (REAR PANEL)		Q103	2SC2785FETA	TRANSISTOR					
19	XTB3+20JFZ	SCREW (MAIN PCB)		Q104	2SC2785FETA	TRANSISTOR				DIODES	
20	XTB3+8FFZ	SCREW (HEAT SINK)		Q106	UN411FTA	TRANSISTOR					
22	XTW3+15T	SCREW (HIC FIXTURE)		Q107	2SC3311ARTA	TRANSISTOR		D1	SVC211SPA-AL	DIODE	
23	RHD26016	SCREW (HEADPHONE)		Q108	2SC3311ARTA	TRANSISTOR		D2	SVC211SPA-AL	DIODE	
24	XTBS26+10J	SCREW (PANEL PCB)		Q351	2SD592ARTA	TRANSISTOR		D3	SVC211SPA-AL	DIODE	
25	RMN0203	PCB SUPPORT		Q352	2SB621ARTA	TRANSISTOR		D101	MTZJ5R1BTA	DIODE	
26	RMN0312	TRANS HOLDER		Q505	2SD1915FTA	TRANSISTOR		D102	RVD1SS133TA	DIODE	
28	RYQ0173-K	FAN UNIT	[MAV]	Q506	2SD1915FTA	TRANSISTOR		D351	MTZJ5R6BTA	DIODE	
28-1	MDN-4RB4MRC	MOTOR		Q551	2SD1915FTA	TRANSISTOR		D352	MTZJ5R6BTA	DIODE	
28-2	REX0811	MOTOR WIRE	[MAV]	Q552	2SD1915FTA	TRANSISTOR		D401	MTZJ7R5CTA	DIODE	
28-3	SHE232	64MM PROPELLER		Q581	2SA1309ARTA	TRANSISTOR		D583	MTZJ3R0ATA	DIODE	[MAV]
28-4	SHE233-1	FAN CASE		Q582	2SA1309ARTA	TRANSISTOR		D584	MTZJ3R0ATA	DIODE	[MAV]
28-5	SHE234	FAN CASE COVER		Q583	2SC3311ARTA	TRANSISTOR		D601	SB360L6508	DIODE	
28-6	SUS271	MOTOR SPRING		Q584	2SC3311ARTA	TRANSISTOR		D602	SB360L6508	DIODE	
		INTEGRATED CIRCUITS		Q585	2SA1309ARTA	TRANSISTOR		D604	RVD1SS133TA	DIODE	
				Q601	UN4119TA	TRANSISTOR		D605	MTZJ6R2BTA	DIODE	
				Q651	UN4119TA	TRANSISTOR		D606	RVD1SS133TA	DIODE	
IC101	LA1832A	IC, IF/MPX		Q681	2SD1915FTA	TRANSISTOR		D607	RVD1SS133TA	DIODE	
IC102	LC7218	IC, PLL		Q682	2SD1915FTA	TRANSISTOR		D651	SB360L6508	DIODE	
IC351	NJM2279D	IC, VIDEO SELECTOR		Q701	2SD2374PQAU	TRANSISTOR		D652	SB360L6508	DIODE	
IC401	TC9163N	IC, SELECTOR		Q703	2SC3311ARTA	TRANSISTOR		D654	RVD1SS133TA	DIODE	
IC402	M5218AP	IC, BUFFER AMP		Q704	2SC3311ARTA	TRANSISTOR		D655	MTZJ6R2BTA	DIODE	

Ref No.	Part No.	Part Name & Description	Remarks	Ref No.	Part No.	Part Name & Description	Remarks	Ref No.	Part No.	Part Name & Description	Remarks
D656	RVD1SS133TA	DIODE		S951	EVQ21405R	SW, BAND		CP1001	RJT100W07	CONNECTOR(7P)	[MAV]
D657	RVD1SS133TA	DIODE		S952	EVQ21405R	SW, TUNING DOWN		CP1002	RJT100W07	CONNECTOR(7P)	[MAV]
D659	MTZJ6R8BTA	DIODE		S953	EVQ21405R	SW, TUNING UP					
D660	MTZJ6R8BTA	DIODE		S954	EVQ21405R	SW, MEMORY				COILS & TRANSFORMERS	
D661	MTZJ6R8BTA	DIODE		S956	EVQ21405R	SW, PRESET DOWN					
D662	MTZJ6R8BTA	DIODE		S957	EVQ21405R	SW, PRESET UP		L1	RLQZP1R2KT-Y	INDUCTOR	
D701	1N5402BM21	DIODE	⚠	S960	EVQ21405R	SW, TUNER		L2	RLQZPR47KT-Y	INDUCTOR	
D702	1N5402BM21	DIODE	⚠	S961	EVQ21405R	SW, CD		L101	ELESN1R5MA	CHOKE COIL	
D703	1N5402BM21	DIODE	⚠	S962	EVQ21405R	SW, TAPE		L103	ELEXTR47MA9	CHOKE COIL	
D704	1N5402BM21	DIODE	⚠	S963	EVQ21405R	SW, TV		L501	RLQZP1R0KT-Y	AXIAL COIL	
D705	MTZJ6R2BTA	DIODE	⚠	S964	EVQ21405R	SW, VCR		L502	RLQZP1R0KT-Y	AXIAL COIL	
D706	MTZJ6R2BTA	DIODE		S960	EVQ21405R	SW, SPEAKER		L601	RLQYR73M	CHOKE COIL	
D707	MTZJ30DTA	DIODE	⚠	S982	EVQ21405R	SW, SUPER BASS		L602	RLQYR73M	CHOKE COIL	
D708	MTZJ15CTA	DIODE	⚠	S983	EVQ21405R	SW, DPL		L651	RLQYR73M	CHOKE COIL	
D721	1N5402BM21	DIODE	⚠	S984	EVQ21405R	SW, PRO		L652	RLQYR73M	CHOKE COIL	
D722	1N5402BM21	DIODE	⚠	S985	EVQ21405R	SW, SFC		L751	RLQB101KTA-Y	CHOKE COIL	
D723	1N5402BM21	DIODE	⚠	S986	EVQ21405R	SW, CENTER MODE		L901	RLQB101KTA-Y	CHOKE COIL	
D724	1N5402BM21	DIODE	⚠					L1051	RLQB101KTA-Y	CHOKE COIL	
D751	1SR35200TB	DIODE	⚠			CONNECTORS		T701	RTP1P5C024-V	POWER TRANSFORMER	[MAV] ⚠
D752	1SR35200TB	DIODE	⚠					T751	RTP1H5C001-V	POWER TRANSFORMER	⚠
D753	1SR35200TB	DIODE	⚠	CN101	RJU057W007	CONNECTOR (7P)					
D754	1SR35200TB	DIODE	⚠	CN102	RJU057W007	CONNECTOR (7P)				COMPONENT COMBINATION	
D755	RVD1SS133TA	DIODE	⚠	CN401	RJU100W07	CONNECTOR (7P)	[MAV]	Z101	RLA2Z002M-T	AM ANT. COIL	
D756	MTZJ6R8BTA	DIODE	⚠	CN402	RJU100W07	CONNECTOR (7P)	[MAV]	Z102	RLI2Z006M-T	AM IFT	
D771	RVD1SS133TA	DIODE		CN501	RJU100W07	CONNECTOR (7P)	[MAV]	Z751	ERZV10V511CS	ZNR	⚠
D772	MTZJ8R2BTA	DIODE	[M]	CN502	RJU100W04	SOCKET (4P)	[MAV]	Z891	RCDSPS4242N	REMOTE SENSOR	
D773	RVD1SS133TA	DIODE		CN701	SJS702-1	CONNECTOR (7P)				CERAMIC FILTERS	
D901	1SS291TA	DIODE		CN751	SJS305-1	CONNECTOR (3P)					
D903	MTZJ4R7BTA	DIODE		CN752	RJU100W04	SOCKET (4P)	[MAV]	CF201	RLFFETMGD01L	CERAMIC FILTER	
D907	MA167ATA	DIODE		CN901	RJU003K008M1	BOARD IN CONNECTOR		CF202	RLFFETMGD01L	CERAMIC FILTER	
D908	MA167ATA	DIODE		CN902	RJU003K008M1	BOARD IN CONNECTOR		CF901	RVBCST4R00MT	CERAMIC CAP.	
D921	RVD1SS133TA	DIODE		CN903	RJU003K008M1	BOARD IN CONNECTOR		CF1051	EF0EC8004T4	CERAMIC OSCILLATOR	
D923	RVD1SS133TA	DIODE		CN904	RJU003K008M1	BOARD IN CONNECTOR				OSCILLATORS	
D924	MTZJ3R9ATA	DIODE		CN905	RJU003K008M1	BOARD IN CONNECTOR					
D1001	MTZJ10CTA	DIODE		CN1001	RJU100W07	CONNECTOR (7P)	[MAV]	X101	RSXZ456KM07M	CERAMIC OSCILLATOR	
D1002	MA700ATA	DIODE		CN1002	RJU100W07	CONNECTOR (7P)	[MAV]	X102	RLFDGTD01I	FM RESONATOR	
		VARIABLE RESISTORS		CP101	RJT057W007-1	CONNECTOR (7P)		X103	SVQ49U722T-S	CRYSTAL OSCILLATOR	
				CP102	RJT057W007-1	CONNECTOR (7P)				DISPLAY TUBE	
				CP401	RJT100W07	CONNECTOR (7P)	[MAV]				
VR501	RRV24B02B16A	VR, VOLUME	[MAV]	CP402	RJT100W07	CONNECTOR (7P)	[MAV]	FL901	RSL0213-F	FL DISPLAY	[MAV]
VR502	EVJ02QF04G15	VR, BALANCE		CP501	RJT100W07	CONNECTOR (7P)	[MAV]			FUSE	
VR511	EVJYA1FA5C15	VR, BASS		CP502	RJT100W04	CONNECTOR (4P)	[MAV]				
VR512	EVJYA1FA5C15	VR, TREBLE		CP752	RJT100W04	CONNECTOR (4P)	[MAV]	F1	XBA1C70NBAU	FUSE	[MAV] ⚠
		SWITCHES		CP771	SJT3213	CONNECTOR (FAN)					
				CP901	RJT003K008M1	CONNECTOR (8P)					
S947	EVQ21405R	SW, PHONE		CP902	RJT003K008M1	CONNECTOR (8P)					
S949	EVQ21405R	SW, POWER		CP903	RJT003K008M1	CONNECTOR (8P)					
S950	EVQ21405R	SW, FM MODE		CP904	RJT003K008M1	CONNECTOR (8P)					
				CP905	RJT003K008M1	CONNECTOR (8P)					

Ref No.	Part No.	Part Name & Description	Remarks	Ref No.	Part No.	Part Name & Description	Remarks	Ref No.	Part No.	Part Name & Description	Remarks
		FUSE HOLDERS		JK603	RJR0054	JK, SP TERMINAL					
				JK791	SJS9237	JK, AC INLET	⚠			EARTH TERMINAL	
FC701	EYF52BC	FUSE HOLDER		JK792	RJS2A2302	JK, AC OUTLET	⚠	E401	SNE1004-2	EARTH TERMINAL	
FC702	EYF52BC	FUSE HOLDER						E501	RSC0445	TONESHIELD PLATE	[MAV]
		JACKS				RELAYS		E601	SNE1004-2	EARTH TERMINAL	
				RL601	RSY0013M-0	24V RELAY					
JK101	RJH4405	JK, ANT TERMINAL		RL603	RSY0013M-0	24V RELAY				PACKING MATERIALS	
JK351	SJF3069-3N	JK, RCA PIN		RL751	RSY0019M-0	12V TV-5 RELAY	⚠				
JK401	SJF3068-7N	JK, RCA TERMINAL				HEADPHONE		P2	RPFX0005	MIRAMAT BAG	[M]
JK402	SJF3069N	JK, LINE IN						P3	RPG2780	PACKING CASE	[MAV]
JK403	SJF3069N	JK, LINE IN						P4	RPN0952	POLYFOAM	[MAV]
JK404	SJF3069N	JK, LINE IN		HP601	RJJ63TS01	JK, HEADPHONE					
JK601	RJH5601	JK, SP TERMINAL									

■ Packaging



■ Resistors & Capacitors

Notes : • Important safety notice:

Components identified by Δ 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.

- Capacitor values are in microfarad (μ F) unless specified otherwise, P=Pico-farads (pF) F=Farads (F)
- Resistors values are in ohms, unless specified otherwise, 1K=1,000(OHM), 1M=1,000K(OHM)
- [M] in Remarks column indicates parts that are supplied by MESA.
- [MAV] in Remarks column indicates parts that are supplied by MAV.

Ref No.	Part No.	Values & Remarks	Ref No.	Part No.	Values & Remarks	Ref No.	Part No.	Values & Remarks	Ref No.	Part No.	Values & Remarks
	RESISTORS		R135	ERDS2TJ102T	1K 1/4W	R413	ERDS2TJ102T	1K 1/4W	R512	ERDS2TJ471T	470 1/4W
			R136	ERDS2TJ102T	1K 1/4W	R414	ERDS2TJ102T	1K 1/4W	R513	ERDS2TJ474T	470K 1/4W
R1	ERDS2TJ104T	100K 1/4W	R137	ERDS2TJ102T	1K 1/4W	R415	ERDS2TJ102T	1K 1/4W	R514	ERDS2TJ474T	470K 1/4W
R2	ERDS2TJ104T	100K 1/4W	R139	ERDS2TJ272T	2.7K 1/4W	R416	ERDS2TJ102T	1K 1/4W	R515	ERDS2TJ474T	470K 1/4W
R3	ERDS2TJ221T	220 1/4W	R140	ERDS2TJ272T	2.7K 1/4W	R417	ERDS2TJ473T	47K 1/4W	R516	ERDS2TJ474T	470K 1/4W
R4	ERDS2TJ104T	100K 1/4W	R141	ERDS2TJ103T	10K 1/4W	R418	ERDS2TJ473T	47K 1/4W	R517	ERDS2TJ332T	3.3K 1/4W
R5	ERDS2TJ564T	560K 1/4W	R142	ERDS2TJ103T	10K 1/4W	R419	ERDS2TJ104T	100K 1/4W	R518	ERDS2TJ332T	3.3K 1/4W
R6	ERDS2TJ391T	390 1/4W	R143	ERDS2TJ222T	2.2K 1/4W	R420	ERDS2TJ104T	100K 1/4W	R519	ERDS2TJ182T	1.8K 1/4W
R7	ERDS2TJ272T	2.7K 1/4W	R144	ERDS2TJ222T	2.2K 1/4W	R421	ERDS2TJ104T	100K 1/4W	R520	ERDS2TJ182T	1.8K 1/4W
R8	ERDS2TJ684T	680K 1/4W	R145	ERDS2TJ102T	1K 1/4W	R422	ERDS2TJ104T	100K 1/4W	R521	ERDS2TJ223T	22K 1/4W
R9	ERDS2TJ391T	390 1/4W	R146	ERDS2TJ102T	1K 1/4W	R423	ERDS2TJ102T	1K 1/4W	R522	ERDS2TJ223T	22K 1/4W
R10	ERDS2TJ391T	390 1/4W	R147	ERDS2TJ474T	470K 1/4W	R424	ERDS2TJ102T	1K 1/4W	R523	ERDS2TJ472T	4.7K 1/4W
R11	ERDS2TJ684T	680K 1/4W	R148	ERDS2TJ474T	470K 1/4W	R425	ERDS2TJ103T	10K 1/4W	R524	ERDS2TJ472T	4.7K 1/4W
R103	ERDS2TJ151T	150 1/4W	R149	ERDS2TJ680T	68 1/4W	R426	ERDS2TJ103T	10K 1/4W	R525	ERDS2TJ222T	2.2K 1/4W
R104	ERDS2TJ102T	1K 1/4W	R171	ERDS2TJ102T	1K 1/4W	R427	ERDS2TJ103T	10K 1/4W	R526	ERDS2TJ222T	2.2K 1/4W
R105	ERDS2TJ471T	470 1/4W	R172	ERDS2TJ102T	1K 1/4W	R440	ERDS1FVJ820T	82 1/2W	R527	ERDS2TJ122T	1.2K 1/4W
R106	ERDS2TJ224T	220K 1/4W	R173	ERDS2TJ471T	470 1/4W	R441	ERDS2TJ473T	47K 1/4W	R528	ERDS2TJ122T	1.2K 1/4W
R107	ERDS2TJ471T	470 1/4W	R175	ERDS2TJ102T	1K 1/4W	R442	ERDS2TJ473T	47K 1/4W	R529	ERDS2TJ273T	27K 1/4W
R110	ERDS2TJ102T	1K 1/4W	R176	ERDS2TJ391T	390 1/4W	R443	ERDS2TJ330T	33 1/4W	R530	ERDS2TJ273T	27K 1/4W
R112	ERDS2TJ104T	100K 1/4W	R351	ERDS2TJ680T	68 1/4W	R451	ERDS2TJ224T	220K 1/4W	R531	ERDS2TJ332T	3.3K 1/4W
R113	ERDS2TJ103T	10K 1/4W	R352	ERDS2TJ680T	68 1/4W	R452	ERDS2TJ224T	220K 1/4W	R532	ERDS2TJ332T	3.3K 1/4W
R114	ERDS2TJ562T	5.6K 1/4W	R353	ERDS2TJ103T	10K 1/4W	R453	ERDS2TJ821T	820 1/4W	R533	ERDS2TJ473T	47K 1/4W
R115	ERDS2TJ561T	560 1/4W	R354	ERDS2TJ103T	10K 1/4W	R454	ERDS2TJ821T	820 1/4W	R534	ERDS2TJ473T	47K 1/4W
R116	ERDS2TJ102T	1K 1/4W	R355	ERDS2TJ750T	75 1/4W	R455	ERDS2TJ563T	56K 1/4W	R537	ERDS2TJ224T	220K 1/4W
R117	ERDS2TJ104T	100K 1/4W	R356	ERDS2TJ750T	75 1/4W	R456	ERDS2TJ563T	56K 1/4W	R538	ERDS2TJ224T	220K 1/4W
R118	ERDS2TJ562T	5.6K 1/4W	R357	ERDS2TJ102T	1K 1/4W	R457	ERDS2TJ271T	270 1/4W	R539	ERDS2TJ272T	2.7K 1/4W
R119	ERDS2TJ822T	8.2K 1/4W	R358	ERDS2TJ102T	1K 1/4W	R458	ERDS2TJ271T	270 1/4W	R540	ERDS2TJ272T	2.7K 1/4W
R120	ERDS2TJ473T	47K 1/4W	R359	ERDS2TJ182T	1.8K 1/4W	R459	ERDS2TJ680T	68 1/4W	R541	ERDS2TJ392T	3.9K 1/4W
R121	ERDS2TJ332T	3.3K 1/4W	R360	ERDS2TJ182T	1.8K 1/4W	R460	ERDS2TJ680T	68 1/4W	R542	ERDS2TJ392T	3.9K 1/4W
R122	ERDS2TJ272T	2.7K 1/4W	R361	ERD2FCVG220T	22 1/4W	R461	ERDS2TJ184T	180K 1/4W	R543	ERDS2TJ102T	1K 1/4W
R124	ERDS2TJ271T	270 1/4W	R362	ERD2FCVG220T	22 1/4W	R462	ERDS2TJ184T	180K 1/4W	R544	ERDS2TJ102T	1K 1/4W
R125	ERDS2TJ472T	4.7K 1/4W	R401	ERDS2TJ102T	1K 1/4W	R463	ERDS2TJ123T	12K 1/4W	R545	ERDS2TJ684T	680K 1/4W
R126	ERDS2TJ472T	4.7K 1/4W	R402	ERDS2TJ102T	1K 1/4W	R464	ERDS2TJ123T	12K 1/4W	R546	ERDS2TJ103T	10K 1/4W
R127	ERDS2TJ103T	10K 1/4W	R405	ERDS2TJ102T	1K 1/4W	R465	ERDS2TJ563T	56K 1/4W	R551	ERDS2TJ102T	1K 1/4W
R128	ERDS2TJ820T	82 1/4W	R406	ERDS2TJ102T	1K 1/4W	R466	ERDS2TJ563T	56K 1/4W	R552	ERDS2TJ102T	1K 1/4W
R129	ERDS2TJ473T	47K 1/4W	R407	ERDS2TJ102T	1K 1/4W	R467	ERDS2TJ102T	1K 1/4W	R553	ERDS2TJ104T	100K 1/4W
R130	ERDS2TJ102T	1K 1/4W	R408	ERDS2TJ102T	1K 1/4W	R468	ERDS2TJ102T	1K 1/4W	R554	ERDS2TJ104T	100K 1/4W
R131	ERDS2TJ102T	1K 1/4W	R409	ERDS2TJ102T	1K 1/4W	R501	ERDS2TJ222T	2.2K 1/4W	R555	ERDS2TJ223T	22K 1/4W
R132	ERDS2TJ103T	10K 1/4W	R410	ERDS2TJ102T	1K 1/4W	R502	ERDS2TJ222T	2.2K 1/4W	R556	ERDS2TJ223T	22K 1/4W
R133	ERDS2TJ102T	1K 1/4W	R411	ERDS2TJ102T	1K 1/4W	R508	ERDS1FVJ2R2T	2.2 1/2W	R557	ERDS2TJ681T	680 1/4W
R134	ERDS2TJ102T	1K 1/4W	R412	ERDS2TJ102T	1K 1/4W	R511	ERDS2TJ471T	470 1/4W	R558	ERDS2TJ681T	680 1/4W

Ref No.	Part No.	Values & Remarks	Ref No.	Part No.	Values & Remarks	Ref No.	Part No.	Values & Remarks	Ref No.	Part No.	Values & Remarks
R561	ERDS2TJ332T	3.3K 1/4W	R640	ERG1SJ101E	100 1W	R696	ERDS2TJ102T	1K 1/4W	R804	ERDS2TJ102T	1K 1/4W
R562	ERDS2TJ332T	3.3K 1/4W	R641	ERDS2TJ684T	680K 1/4W	R697	ERDS2TJ221T	220 1/4W	R805	ERDS2TJ563T	56K 1/4W
R564	ERDS2TJ103T	10K 1/4W	R647	ERDS2TJ221T	220 1/4W	R698	ERDS2TJ221T	220 1/4W	R806	ERDS2TJ563T	56K 1/4W
R565	ERDS2TJ102T	1K 1/4W	R648	ERDS2TJ221T	220 1/4W	R699	ERDS2TJ332T	3.3K 1/4W	R807	ERDS2TJ682T	6.8K 1/4W
R566	ERDS2TJ102T	1K 1/4W	R651	ERDS2TJ102T	1K 1/4W	R703	ERDS1FVJ3R9T	3.9 1/2W	R808	ERDS2TJ682T	6.8K 1/4W
R583	ERDS2TJ102T	1K 1/4W	R652	ERDS2TJ102T	1K 1/4W	R704	ERDS1FVJ3R9T	3.9 1/2W	R809	ERDS2TJ824T	820K 1/4W
R584	ERDS2TJ102T	1K 1/4W	R653	ERDS2TJ563T	56K 1/4W	R705	ERDS2TJ472T	4.7K 1/4W	R810	ERDS2TJ824T	820K 1/4W
R585	ERDS2TJ102T	1K 1/4W	R654	ERDS2TJ563T	56K 1/4W	R706	ERDS2TJ102T	1K 1/4W	R811	ERDS2TJ223T	22K 1/4W
R586	ERDS2TJ102T	1K 1/4W	R655	ERDS2TJ182T	1.8K 1/4W	R707	ERD25FVJ221T	220 1/4W	R812	ERDS2TJ823T	82K 1/4W
R587	ERDS2TJ102T	1K 1/4W	R656	ERDS2TJ182T	1.8K 1/4W	R708	ERDS2TJ472T	4.7K 1/4W	R901	ERDS2TJ102T	1K 1/4W
R588	ERDS2TJ102T	1K 1/4W	R657	ERDS2TJ563T	56K 1/4W	R709	ERDS2TJ1R5T	1.5 1/4W	R906	ERDS2TJ104T	100K 1/4W
R589	ERDS2TJ472T	4.7K 1/4W	R658	ERDS2TJ563T	56K 1/4W	R710	ERDS2TJ1R5T	1.5 1/4W	R907	ERDS2TJ104T	100K 1/4W
R590	ERDS2TJ473T	47K 1/4W	R659	ERDS2TJ470T	47 1/4W	R711	ERDS2TJ752T	7.5K 1/4W	R908	ERDS2TJ104T	100K 1/4W
R591	ERDS2TJ222T	2.2K 1/4W	R660	ERDS2TJ470T	47 1/4W	R712	ERDS2TJ682T	6.8K 1/4W	R909	ERDS2TJ104T	100K 1/4W
R592	ERDS2TJ222T	2.2K 1/4W	R661	ERDS1FVJ100T	10 1/2W	R715	ERDS2TJ182T	1.8K 1/4W	R910	ERDS2TJ102T	1K 1/4W
R601	ERDS2TJ102T	1K 1/4W	R662	ERDS1FVJ100T	10 1/2W	R716	ERDS1FVJ100T	10 1/2W	R911	ERDS2TJ104T	100K 1/4W
R602	ERDS2TJ102T	1K 1/4W	R663	ERDS2TJ102T	1K 1/4W	R717	ERDS1FVJ100T	10 1/2W	R912	ERDS2TJ103T	10K 1/4W
R603	ERDS2TJ563T	56K 1/4W	R664	ERDS2TJ102T	1K 1/4W	R721	ERDS1FVJ221T	220 1/2W	R914	ERDS2TJ274T	270K 1/4W
R604	ERDS2TJ563T	56K 1/4W	R665	ERDS2TJ184T	180K 1/4W	R722	ERDS2TJ822T	8.2K 1/4W	R917	ERDS2TJ103T	10K 1/4W
R605	ERDS2TJ182T	1.8K 1/4W	R666	ERDS2TJ154T	150K 1/4W	R723	ERDS1FVJ100T	10 1/2W	R920	ERDS2TJ271T	270 1/4W
R606	ERDS2TJ182T	1.8K 1/4W	R667	ERDS2TJ473T	47K 1/4W	R724	ERDS1FVJ100T	10 1/2W	R921	ERDS2TJ121T	120 1/4W
R607	ERDS2TJ563T	56K 1/4W	R668	ERDS2TJ473T	47K 1/4W	R725	ERDS2TJ122T	1.2K 1/4W	R922	ERDS2TJ472T	4.7K 1/4W
R608	ERDS2TJ563T	56K 1/4W	R669	ERDS2TJ223T	22K 1/4W	R726	ERD25FVJ331T	330 1/4W	R929	ERDS2TJ101T	100 1/4W
R609	ERDS2TJ470T	47 1/4W	R670	ERD25FVJ220T	22 1/4W	R727	ERDS1FVJ681T	680 1/2W	R930	ERDS2TJ101T	100 1/4W
R610	ERDS2TJ470T	47 1/4W	R671	ERDS2TJ473T	47K 1/4W	R730	ERDS1FVJ5R6T	5.6 1/2W	R931	ERDS2TJ221T	220 1/4W
R611	ERDS1FVJ100T	10 1/2W	R672	ERDS2TJ224T	220K 1/4W	R751	ERC12ZGK335D	3.3M 1/2W	R932	ERDS2TJ102T	1K 1/4W
R612	ERDS1FVJ100T	10 1/2W	R673	ERDS2TJ684T	680K 1/4W	R752	ERDS2TJ102T	1K 1/4W	R936	ERDS2TJ102T	1K 1/4W
R613	ERDS2TJ102T	1K 1/4W	R674	ERDS2TJ563T	56K 1/4W	R754	ERDS2TJ102T	1K 1/4W	R937	ERDS2TJ102T	1K 1/4W
R614	ERDS2TJ102T	1K 1/4W	R675	ERDS2TJ563T	56K 1/4W	R772	ERDS2TJ104T	100K 1/4W	R946	ERDS2TJ103T	10K 1/4W
R615	ERDS2TJ184T	180K 1/4W	R676	ERDS2TJ682T	6.8K 1/4W	R773	ERDS2TJ103T	10K 1/4W	R947	ERDS2TJ103T	10K 1/4W
R616	ERDS2TJ154T	150K 1/4W	R678	ERDS1FVJ391T	390 1/2W	R774	ERDS2TJ223T	22K 1/4W	R948	ERDS2TJ103T	10K 1/4W
R617	ERDS2TJ473T	47K 1/4W	R679	ERD25FVJ470T	47 1/4W	R775	ERDS2TJ472T	4.7K 1/4W	R949	ERDS2TJ103T	10K 1/4W
R618	ERDS2TJ473T	47K 1/4W	R680	ERD25FVJ470T	47 1/4W	R777	ERDS2TJ150T	15 1/4W	R950	ERDS2TJ102T	1K 1/4W
R619	ERDS2TJ223T	22K 1/4W	R681	ERDS2TJ270T	27 1/4W	R778	ERDS2TJ222T	2.2K 1/4W	R951	ERDS2TJ122T	1.2K 1/4W
R620	ERD25FVJ220T	22 1/4W	R682	ERDS2TJ270T	27 1/4W	R779	ERDS2TJ103T	10K 1/4W	R952	ERDS2TJ152T	1.5K 1/4W
R621	ERDS2TJ473T	47K 1/4W	R683	ERDS2TJ270T	27 1/4W	R780	ERDS2TJ473T	47K 1/4W	R953	ERDS2TJ182T	1.8K 1/4W
R622	ERDS2TJ184T	180K 1/4W	R684	ERDS2TJ270T	27 1/4W	R781	ERDS2TJ473T	47K 1/4W	R954	ERDS2TJ222T	2.2K 1/4W
R623	ERDS2TJ684T	680K 1/4W	R685	ERDS2TJ270T	27 1/4W	R782	ERDS2TJ153T	15K 1/4W	R955	ERDS2TJ332T	3.3K 1/4W
R624	ERDS2TJ563T	56K 1/4W	R686	ERDS2TJ270T	27 1/4W	R783	ERDS2TJ103T	10K 1/4W	R956	ERDS2TJ472T	4.7K 1/4W
R625	ERDS2TJ563T	56K 1/4W	R687	ERDS2TJ270T	27 1/4W	R784	ERDS2TJ335T	3.3M 1/4W	R957	ERDS2TJ682T	6.8K 1/4W
R626	ERDS2TJ682T	6.8K 1/4W	R688	ERDS2TJ270T	27 1/4W	R791	ERDS2TJ223T	22K 1/4W	R960	ERDS2TJ102T	1K 1/4W
R628	ERDS1FVJ391T	390 1/2W	R689	ERDS2TJ270T	27 1/4W	R792	ERDS2TJ223T	22K 1/4W	R961	ERDS2TJ122T	1.2K 1/4W
R629	ERD25FVJ151T	150 1/4W	R690	ERDS2TJ270T	27 1/4W	R795	ERDS2TJ223T	22K 1/4W	R962	ERDS2TJ152T	1.5K 1/4W
R630	ERD25FVJ121T	120 1/4W	R691	ERDS2TJ270T	27 1/4W	R796	ERDS2TJ223T	22K 1/4W	R963	ERDS2TJ182T	1.8K 1/4W
R632	ERDS2TJ223T	22K 1/4W	R692	ERDS2TJ270T	27 1/4W	R797	ERDS2TJ682T	6.8K 1/4W	R964	ERDS2TJ222T	2.2K 1/4W
R637	ERG1SJ101E	100 1W	R693	ERDS2TJ270T	27 1/4W	R801	ERDS2TJ471T	470 1/4W	R980	ERDS2TJ102T	1K 1/4W
R638	ERG1SJ101E	100 1W	R694	ERDS2TJ270T	27 1/4W	R802	ERDS2TJ471T	470 1/4W	R981	ERDS2TJ122T	1.2K 1/4W
R639	ERG1SJ101E	100 1W	R695	ERDS2TJ102T	1K 1/4W	R803	ERDS2TJ102T	1K 1/4W	R982	ERDS2TJ152T	1.5K 1/4W

Ref No.	Part No.	Values & Remarks	Ref No.	Part No.	Values & Remarks	Ref No.	Part No.	Values & Remarks	Ref No.	Part No.	Values & Remarks
R983	ERDS2TJ182T	1.8K 1/4W	C107	ECBT1H473ZF5	0.047 50V	C354	ECBT1H470J5	47P 50V	C463	ECEA1VKA4R7B	4.7 10V
R984	ERDS2TJ222T	2.2K 1/4W	C108	ECBT1H8R2KC5	8.2P 50V	C355	ECBT1E103ZF5	0.01 25V	C464	ECEA1VKA4R7B	4.7 10V
R985	ERDS2TJ332T	3.3K 1/4W	C109	ECBT1C103NS5	0.01 16V	C356	ECBT1E103ZF5	0.01 25V	C465	ECBT1E103ZF5	0.01 25V
R986	ERDS2TJ472T	4.7K 1/4W	C110	ECBT1C103NS5	0.01 16V	C357	ECEA0JKA470B	47 6.3V	C466	ECBT1E103ZF5	0.01 25V
R1001	ERDS2TJ102T	1K 1/4W	C111	ECEA1EKA4R7B	4.7 25V	C358	ECEA0JKA470B	47 6.3V	C503	ECEA0JKA101B	100 6.3V
R1002	ERDS2TJ102T	1K 1/4W	C112	ECBT1C103NS5	0.01 16V	C359	ECBT1E103ZF5	0.01 25V	C504	ECEA0JKA101B	100 6.3V
R1003	ERDS2TJ102T	1K 1/4W	C113	ECBT1H102KB5	1000P 50V	C360	ECBT1E103ZF5	0.01 25V	C505	ECFR1C104MR	0.1 16V
R1004	ERDS2TJ102T	1K 1/4W	C114	ECEA1HKA3R3B	3.3 50V	C401	ECEA1VKA4R7B	4.7 10V	C506	ECFR1C104MR	0.1 16V
R1005	ERDS2TJ203T	20K 1/4W	C115	ECEA1EKA4R7B	4.7 25V	C402	ECEA1VKA4R7B	4.7 10V	C511	ECEA1HKA3R3B	3.3 50V
R1007	ERDS2TJ473T	47K 1/4W	C116	ECBT1C822MS5	8200P 16V	C403	ECBT1E103ZF5	0.01 25V	C512	ECEA1HKA3R3B	3.3 50V
R1008	ERDS2TJ473T	47K 1/4W	C117	ECQB1H821JF3	820P 50V	C404	ECBT1E103ZF5	0.01 25V	C513	ECBT1H150J5	15P 50V
R1009	ERDS2TJ332T	3.3K 1/4W	C118	ECFR1E183KR	0.018 25V	C405	ECBT1H101KB5	100P 50V	C514	ECBT1H150J5	15P 50V
R1010	ERDS2TJ332T	3.3K 1/4W	C119	ECFR1E183KR	0.018 25V	C406	ECBT1H101KB5	100P 50V	C515	ECBT1H221KB5	220P 50V
R1011	ERDS2TJ332T	3.3K 1/4W	C120	ECEA1HKA010B	1 50V	C409	ECEA1EKA220B	22 25V	C516	ECBT1H221KB5	220P 50V
R1012	ERDS2TJ102T	1K 1/4W	C121	ECEA1HKA010B	1 50V	C410	ECEA1EKA220B	22 25V	C517	ECBT1H220J5	22P 50V
R1013	ERDS2TJ103T	10K 1/4W	C122	ECEA1HKA2R2B	2.2 50V	C411	ECBT1H101KB5	100P 50V	C518	ECBT1H220J5	22P 50V
R1014	ERDS2TJ104T	100K 1/4W	C123	ECEA1HKA010B	1 50V	C412	ECBT1H101KB5	100P 50V	C519	ECEA1VKA4R7B	4.7 10V
R1051	ERDS2TJ393T	39K 1/4W	C124	ECBT1H102KB5	1000P 50V	C413	ECEA1CU100B	10 16V	C520	ECEA1VKA4R7B	4.7 10V
R1052	ERDS2TJ105T	1M 1/4W	C125	ECBT1H150JC5	15P 50V	C414	ECEA1CU100B	10 16V	C521	ECEA1VKA4R7B	4.7 10V
R1053	ERDS2TJ102T	1K 1/4W	C126	ECBT1H104ZF5	0.1 50V	C415	ECBT1E103ZF5	0.01 25V	C522	ECEA1VKA4R7B	4.7 10V
R1055	ERDS2TJ224T	220K 1/4W	C127	ECEA1CKA220B	22 16V	C416	ECBT1E103ZF5	0.01 25V	C523	ECFR1E123KR	0.012 25V
R1056	ERDS2TJ153T	15K 1/4W	C128	ECBT1C103NS5	0.01 16V	C417	ECBT1H101KB5	100P 50V	C524	ECFR1E123KR	0.012 25V
R1061	ERDS2TJ222T	2.2K 1/4W	C129	ECEA0JKA101B	100 6.3V	C418	ECBT1H101KB5	100P 50V	C525	ECQV1H683JZ3	0.068 50V
R1062	ERDS2TJ273T	27K 1/4W	C130	ECEA0JKA101B	100 6.3V	C419	ECBT1H101KB5	100P 50V	C526	ECQV1H683JZ3	0.068 50V
R1063	ERDS2TJ332T	3.3K 1/4W	C131	ECBT1C103NS5	0.01 16V	C420	ECBT1H101KB5	100P 50V	C527	ECBT1C562KR5	5600P 16V
R1081	ERDS2TJ104T	100K 1/4W	C132	ECBT1H102KB5	1000P 50V	C421	ECBT1H101KB5	100P 50V	C528	ECBT1C562KR5	5600P 16V
R1082	ERDS2TJ474T	470K 1/4W	C133	ECBT1H150JC5	15P 50V	C422	ECBT1H101KB5	100P 50V	C529	ECQB1H273JF3	0.027 50V
			C134	ECBT1H180JC5	18P 50V	C423	ECBT1H101KB5	100P 50V	C530	ECQB1H273JF3	0.027 50V
			C137	ECBT1H271KB5	270P 50V	C424	ECBT1H101KB5	100P 50V	C531	ECBT1E103ZF5	0.01 25V
			C138	ECBT1H271KB5	270P 50V	C425	ECBT1H101KB5	100P 50V	C532	ECBT1E103ZF5	0.01 25V
			C141	ECEA1HKA010B	1 50V	C426	ECBT1H101KB5	100P 50V	C533	ECEA1CKA100B	10 16V
C1	ECBT1H5R6KC5	5.6P 50V	C142	ECEA1HKA010B	1 50V	C427	ECBT1H101KB5	100P 50V	C534	ECEA1CKA100B	10 16V
C1	ECKR1H473ZF5	0.047 50V	C143	ECEA1HKA010B	1 50V	C428	ECBT1H101KB5	100P 50V	C536	ECBT1E103ZF5	0.01 25V
C2	ECKR1H473ZF5	0.047 50V	C144	ECEA1HKA010B	1 50V	C431	ECEA1CU100B	10 16V	C537	ECEA1HU3R3B	3.3 50V
C2	RCBS1H102KB5	1000P 50V	C145	ECBT1H220JC5	22P 50V	C432	ECEA1CU100B	10 16V	C538	ECEA1HU3R3B	3.3 50V
C3	ECBT1H2R2KC5	2.2P 50V	C146	ECBT1H331KB5	330P 50V	C440	ECBT1E103ZF5	0.01 25V	C551	ECEA1HKA3R3B	3.3 50V
C4	ECBT1H181KB5	180P 50V	C147	ECBT1H102KB5	1000P 50V	C451	ECEA1VKA4R7B	4.7 10V	C552	ECEA1HKA3R3B	3.3 50V
C5	ECBT1H5R6KC5	5.6P 50V	C148	ECBT1C103NS5	0.01 16V	C452	ECEA1VKA4R7B	4.7 10V	C553	ECBT1H101KB5	100P 50V
C6	ECBT1H3R3KC5	3.3P 50V	C149	ECBT1C103NS5	0.01 16V	C453	ECBT1H101KB5	100P 50V	C554	ECBT1H101KB5	100P 50V
C7	ECBT1H4R7KC5	4.7P 50V	C150	ECBT1H104ZF5	0.1 50V	C454	ECBT1H101KB5	100P 50V	C555	ECBT1H221KB5	220P 50V
C8	ECBT1H3R3KC5	3.3P 50V	C172	ECBT1H331KB5	330P 50V	C455	ECBT1H102KB5	1000P 50V	C556	ECBT1H221KB5	220P 50V
C9	ECBT1H2R2KC5	2.2P 50V	C173	ECEA1CKA220B	22 16V	C456	ECBT1H102KB5	1000P 50V	C557	ECBT1E103ZF5	0.01 25V
C10	ECBT1H180JC5	18P 50V	C174	ECEA1CKA100B	10 16V	C457	ECEA1AKA330B	33 10V	C558	ECBT1E103ZF5	0.01 25V
C11	RCBS1H102KB5	1000P 50V	C175	ECBT1C103NS5	0.01 16V	C458	ECEA1AKA330B	33 10V	C559	ECEA1CKA100B	10 16V
C101	ECBT1C103NS5	0.01 16V	C196	ECBT1H102KB5	1000P 50V	C459	ECFR1E223KR	0.022 25V	C560	ECEA1CKA100B	10 16V
C103	ECBT1C103NS5	0.01 16V	C351	ECEA1CKA220B	22 16V	C460	ECFR1E223KR	0.022 25V	C563	ECBT1E103ZF5	0.01 25V
C104	ECBT1H102KB5	1000P 50V	C352	ECEA1CKA220B	22 16V	C461	ECFR1E682KR	6800P 25V	C583	ECEA0JKA470B	47 6.3V
C105	ECBT1H102KB5	1000P 50V	C353	ECBT1H470J5	47P 50V	C462	ECFR1E682KR	6800P 25V	C584	ECEA0JKA470B	47 6.3V
C106	ECBT1C103NS5	0.01 16V									

Ref No.	Part No.	Values & Remarks	Ref No.	Part No.	Values & Remarks	Ref No.	Part No.	Values & Remarks	Ref No.	Part No.	Values & Remarks
C601	ECEA1HKN3R3B	3.3 50V	C704	ECES1KV752UX	7500 100V[M]AV	C924	ECBT1H331KB5	330P 50V	C1034	ECQV1H474JZ3	0.47 50V
C602	ECEA1HKN3R3B	3.3 50V	C705	ECEA1HM332EV	3300P 50V[M]	C925	ECBT1H331KB5	330P 50V	C1035	ECBT1H681KB5	680P 50V
C603	ECBT1H331KB5	330P 50V	C706	ECEA1HM332EV	3300P 50V[M]	C926	ECBT1H331KB5	330P 50V	C1036	ECBT1H101KB5	100P 50V
C604	ECBT1H331KB5	330P 50V	C707	ECA1VM101B	100 35V	C927	ECBT1H331KB5	330P 50V	C1037	ECBT1H101KB5	100P 50V
C605	ECEA1JU220B	22 63V	C708	ECKR1H103ZF5	0.01 50V	C928	ECBT1H331KB5	330P 50V	C1038	ECBT1H101KB5	100P 50V
C606	ECEA1JU220B	22 63V	C709	ECEA1CKA330B	33 16V	C929	ECBT1H331KB5	330P 50V	C1039	ECEA1CU101B	100 16V
C607	ECCR1H100K5	10P 50V	C710	ECBT1E103ZF5	0.01 25V	C930	ECBT1H331KB5	330P 50V	C1040	ECEA1CKA100B	10 16V
C608	ECCR1H100K5	10P 50V	C711	ECKR1H103ZF5	0.01 50V	C931	ECBT1H102KB5	1000P 50V	C1041	ECBT1E103ZF5	0.01 25V
C609	ECBT1H221KB5	220P 50V	C712	ECEA1HKA100B	10 50V	C934	ECBT1E103ZF5	0.01 25V	C1043	ECEA1CKA100B	10 16V
C610	ECBT1H221KB5	220P 50V	C713	ECBT1E103ZF5	0.01 25V	C935	ECBT1E103ZF5	0.01 25V	C1044	ECEA1CKA100B	10 16V
C611	ECQV1H473JZ3	0.047 50V	C714	ECEA1EKA470B	47 25V	C938	ECBT1E103ZF5	0.01 25V	C1051	ECEA1HKA2R2B	2.2 50V
C612	ECQV1H473JZ3	0.047 50V	C715	ECEA1CKA101B	100 16V	C940	ECBT1H102KB5	1000P 50V	C1052	ECEA1HKA010B	1 50V
C613	ECBT1H681KB5	680P 50V	C721	ECQE2104KF3	0.1 250V	C941	ECBT1H102KB5	1000P 50V	C1053	ECEA1HKA3R3B	3.3 50V
C614	ECBT1H681KB5	680P 50V	C751	ECKWNS102MBM	1000P 400V	C944	ECBT1H101KB5	100P 50V	C1054	ECEA0JU221B	220 6.3V
C615	ECEA1JU330	33 63V	C752	ECKR1H103ZF5	0.01 50V	C948	ECBT1E103ZF5	0.01 25V	C1055	ECEA1HKA010B	1 50V
C616	ECEA2AU100B	10 100V	C753	ECA1EM102B	1000 25V	C994	ECBT1H101KB5	100P 50V	C1056	ECFR1E563KR	0.056 25V
C617	ECEA1JU220B	22 63V	C754	ECBT1E103ZF5	0.01 25V	C1001	ECEA1HKA010B	1 50V	C1057	ECFR1E152KR	1500P 25V
C618	ECEA2AN2R2SB	2.2 100V	C755	ECEA1CU470B	47 16V	C1002	ECEA1HKA010B	1 50V	C1058	ECFR1E563KR	0.056 25V
C619	ECBT1H102KB5	1000P 50V	C757	ECEA1CU100B	10 16V	C1003	ECEA1HKA3R3B	3.3 50V	C1059	ECEA1CKA101B	100 16V
C621	ECEA2AU100B	10 100V	C758	ECEA1AU101B	100 10V	C1004	ECEA1HKA3R3B	3.3 50V	C1060	ECBT1E223ZF5	0.022 25V
C622	ECEA2AU100B	10 100V	C771	ECEA1HKA2R2B	2.2 50V	C1005	ECEA1HKA010B	1 50V	C1062	ECBT1E223ZF5	0.022 25V
C651	ECEA1HKN3R3B	3.3 50V	C772	ECEA1CU100B	10 16V	C1007	ECFR1E223KR	0.022 25V	C1063	ECEA1CKA101B	100 16V
C652	ECEA1HKN3R3B	3.3 50V	C773	ECBT1E223ZF5	0.022 25V	C1008	ECFR1E473KR	0.047 25V	C1064	ECEA1HKA010B	1 50V
C653	ECBT1H681KB5	680P 50V	C774	ECEA0JU221B	220 6.3V	C1009	ECEA0JU221B	220 6.3V	C1065	ECBT1H681KB5	680P 50V
C654	ECBT1H681KB5	680P 50V	C801	ECQV1H104JZ3	0.1 50V	C1010	ECEA1CKA100B	10 16V	C1067	ECBT1C152KR5	1500P 16V
C655	ECEA1JU220B	22 63V	C802	ECQV1H104JZ3	0.1 50V	C1011	ECEA1CKA100B	10 16V	C1068	ECBT1C152KR5	1500P 16V
C656	ECEA1JU220B	22 63V	C803	ECQV1H104JZ3	0.1 50V	C1012	ECEA1CKA100B	10 16V	C1081	ECEA1HKA010B	1 50V
C657	ECCR1H100K5	10P 50V	C804	ECQV1H104JZ3	0.1 50V	C1013	ECEA1CKA100B	10 16V	C1082	ECBT1E223ZF5	0.022 25V
C658	ECCR1H100K5	10P 50V	C805	ECEA1CKA100B	10 16V	C1014	ECEA0JU221B	220 6.3V			
C659	ECBT1H221KB5	220P 50V	C806	ECEA1CKA100B	10 16V	C1015	ECQV1H104JZ3	0.1 50V			
C660	ECBT1H221KB5	220P 50V	C901	ECEA0JU102B	1000 6.3V	C1016	ECQV1H104JZ3	0.1 50V			
C661	ECQV1H473JZ3	0.047 50V	C902	ECBT1H104ZF5	0.1 50V	C1017	ECEA1HKAR47B	0.47 50V			
C662	ECQV1H473JZ3	0.047 50V	C903	ECBT1E103ZF5	0.01 25V	C1018	ECEA1HKA4R7B	4.7 50V			
C663	ECBT1H681KB5	680P 50V	C904	ECEA0JU102B	1000 6.3V	C1019	ECEA1HKAR47B	0.47 50V			
C664	ECBT1H681KB5	680P 50V	C906	ECEA0JKA101B	100 6.3V	C1020	ECEA1HKA4R7B	4.7 50V			
C665	ECEA1JU330	33 63V	C908	ECBT1E103ZF5	0.01 25V	C1021	ECEA1HKAR15B	0.15 50V			
C666	ECEA2AU100B	10 100V	C909	ECEA1HKA220B	22 50V	C1022	ECEA1HKA3R3B	3.3 50V			
C667	ECEA1JU220B	22 63V	C910	ECEA1HKA220B	22 50V	C1023	ECQV1H154JZ3	0.15 50V			
C668	ECEA2AN2R2SB	2.2 100V	C911	ECEA1HKA220B	22 50V	C1024	ECQV1H154JZ3	0.15 50V			
C669	ECBT1H102KB5	1000P 50V	C912	ECEA1HKA220B	22 50V	C1025	ECEA1HKA3R3B	3.3 50V			
C671	ECEA2AU100B	10 100V	C913	ECEA1VKA100B	10 10V	C1026	ECEA1HKAR15B	0.15 50V			
C672	ECEA2AU100B	10 100V	C914	ECEA1VKA100B	10 10V	C1027	ECEA1HKA4R7B	4.7 50V			
C681	ECEA1HN100SB	10 50V	C916	ECEA1HKA010B	1 50V	C1028	ECEA1HKAR47B	0.47 50V			
C682	ECEA1HN100SB	10 50V	C919	ECBT1H104ZF5	0.1 50V	C1029	ECEA1HKA4R7B	4.7 50V			
C685	ECBT1E103ZF5	0.01 25V	C920	ECEA1HKA010B	1 50V	C1030	ECEA1HKAR47B	0.47 50V			
C701	ECBT1E103ZF5	0.01 25V	C921	ECBT1H331KB5	330P 50V	C1031	ECQV1H104JZ3	0.1 50V			
C702	ECQE2104KF3	0.1 250V	C922	ECBT1H331KB5	330P 50V	C1032	ECQV1H104JZ3	0.1 50V			
C703	ECES1KV752UX	7500 100V[M]AV	C923	ECBT1H331KB5	330P 50V	C1033	ECEA0JKA470B	47 6.3V			