ORDER NO. MD9701001C1
A2

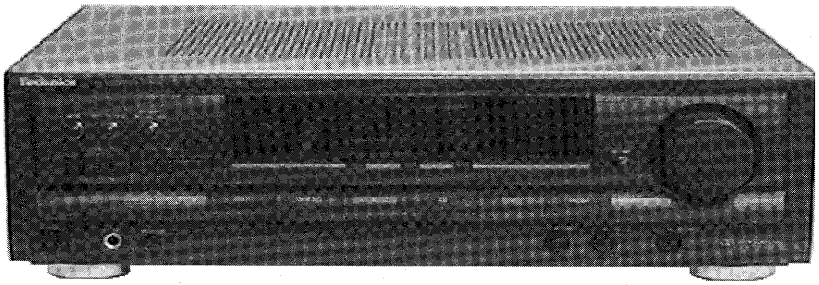
Service Manual

AV Control Stereo Receiver

Receiver

DOLBY SURROUND PRO • LOGIC

SA-G67



Colour

(K) . . . . . Black Type

Area

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

System No. : S085PC-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 µV, IHF '58)
50 dB quieting sensitivity	
MONO	18.3 dBf (4.5 µV, IHF '58)
STEREO	38.3 dBf (45 µV, 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	75 Ω (unbalanced)

■ AM Tuner Section

Frequency range	530 – 1710 kHz
Sensitivity	20 µV, 330 µV/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	1±0.1 Vp-p
Maximum input voltage	1.5 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	70 W per channel (8 Ω)
1 kHz continuous power output both channels driven	
0.9% total harmonic distortion	73 W per channel (8 Ω)
Total harmonic distortion	
Rated power at 40 Hz – 20 kHz	0.9% (8 Ω)
Half power at 1 kHz	0.07% (8 Ω)
Power output at the Dolby Pro Logic operation	
0.9% at 1 kHz,	
Front	2 x 70 W (8 Ω)
Center	70 W (8 Ω)
Surround	70 W (8 Ω)
	(Surround speakers' total impedance)
Low frequency damping factor	30 (8 Ω)
Load impedance	
Front	8 Ω
Center	8 Ω
Surround	4 – 8 Ω
SMPTE intermodulation distortion	0.9%
Input sensitivity	
PHONO	0.4 mV (3 mV, IHF '66)
CD, TAPE MONITOR, VCR , TV/DVD	27 mV (200 mV, IHF '66)
Input impedance	
PHONO	47 kΩ
CD, TAPE MONITOR, VCR , TV/DVD	22 kΩ

Technics®

Contents

⚠ 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 (78 dB, IHF '66)
CD, TAPE MONITOR, VCR, TV/DVD	75 dB (83 dB, IHF '66)
Frequency response	
PHONO	RIAA standard curve ±0.8 dB
CD, TAPE MONITOR, VCR, TV/DVD	10 Hz – 60 kHz, ±3 dB
Tone controls	
BASS	50 Hz, +10 dB to –10 dB
TREBLE	20 kHz, +10 dB to –10 dB

■ General

Power supply	AC 120 V, 60 Hz
Power consumption	175 W (In standby condition : 2W)
Dimensions (W x H x D)	430 x 158 x 309 mm ($16\,^{15}/_{16}$" x $5\,^{11}/_{32}$" x $12\,^{5}/_{32}$")
Weight	6.4 kg (14.2 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.

■ Contents

■ 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.

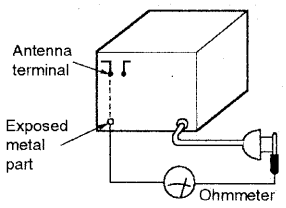


Fig. 1

Resistance = 3MΩ – 5.2MΩ

• 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.

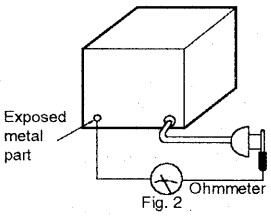


Fig. 2

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:

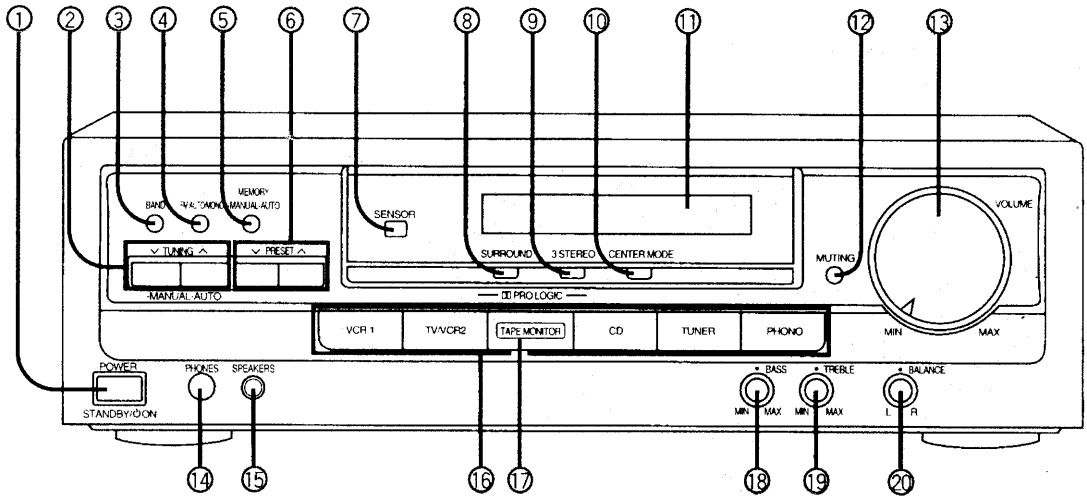
1. Turn off the power.
2. Determine the cause of the problem and correct it.
3. Turn on the power once again after one minute.

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	Sub-system name	Unit		
S085PC-K	SD-S908PC-K	RS-TR180PP-K	:	Cassette Deck (Made in MESA)
		SL-PD665PP9-K	:	CD Changer (Made in MESA)
		SH-WA08PC-K	:	Accessories box (Made in MESA)
		SA-G67PP-K	:	Receiver (Made in MAV)
		SB-A28PP-K	:	Front speaker (Made in MEP)
	SB-CSS380PP-K	SB-C938PP-K	:	Center speaker (Made in MEP)
		SB-S938PP-K	:	Surround speaker (Made in MEP)

■ Front Panel Controls



No.	*Name*
①	**Power "STANDBY ⏻/ON" switch (POWER, STANDBY ⏻/ON)** 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	**Tuning buttons (TUNING)**
③	**Band select button (BAND)**
④	**FM mode select button (FM AUTO/MONO)**
⑤	**Memory button (MEMORY)**
⑥	**Preset channel buttons (PRESET)**
⑦	**Remote control signal sensor (SENSOR)**
⑧	**Surround ON/OFF button (SURROUND)**
⑨	**3 stereo ON/OFF button (3 STEREO)**
⑩	**Center mode select button (CENTER MODE)**

No.	*Name*
⑪	**Display**
⑫	**Muting button (MUTING)**
⑬	**Volume control (VOLUME)**
⑭	**Headphones jack (PHONES)**
⑮	**Speaker ON/OFF button (SPEAKERS)**
⑯	**Input select buttons**
⑰	**Tape monitor button (TAPE MONITOR)**
⑱	**Bass control (BASS)**
⑲	**Treble control (TREBLE)**
⑳	**Balance control (BALANCE)**

■ Operation Checks and Main Component Replacement Procedures

"ATTENTION SERVICER" Some chassis components may have shape edges.
Be careful when disassembling and servicing.

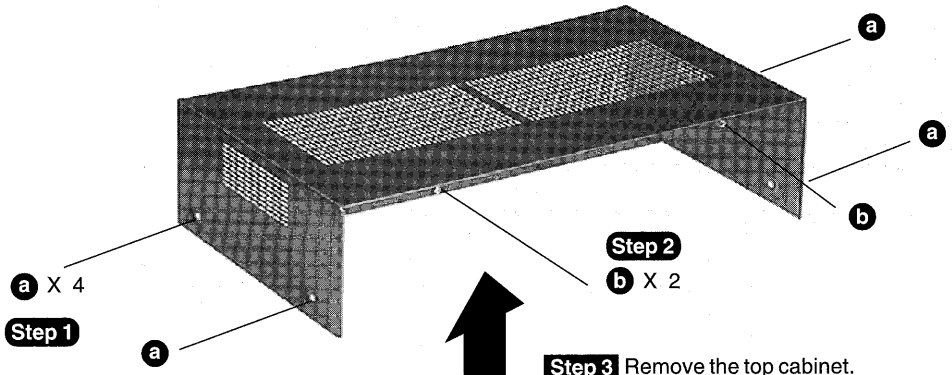
1. **This section describes procedures for checking the operation of the major printed circuit boards and replacing the main components.**
2. **For reassembly after operation checks or replacement, reverse the respective procedures. Special reassembly procedures are described only when required.**
3.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

• Contents

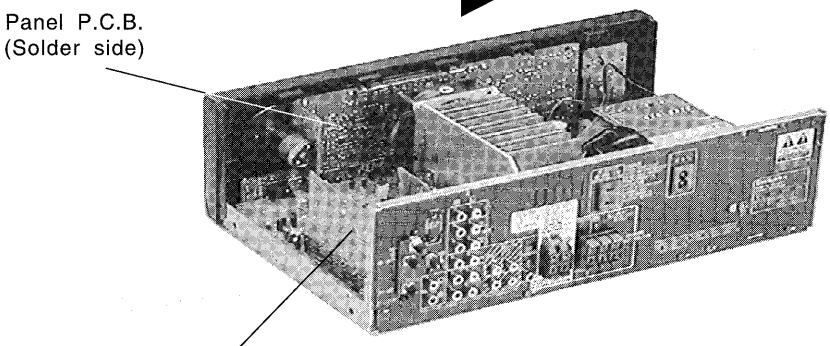
■ Checking Procedure for Major P.C.B.

ⓐ [SNE2129-1] (Black)

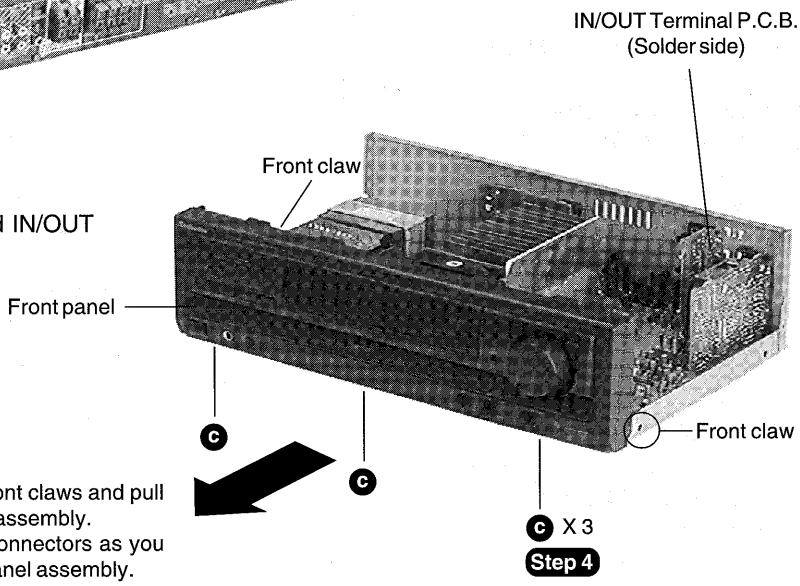
ⓑ , ⓒ [XTBS3+8JFZ1] (Black)



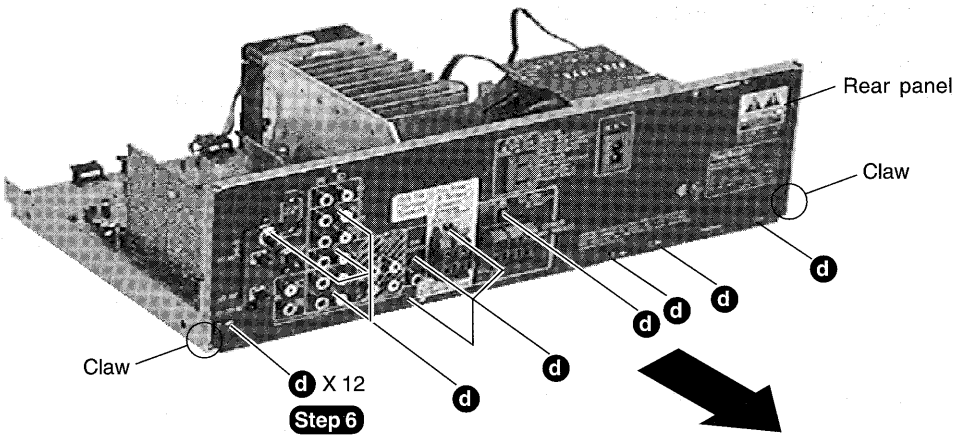
Step 3 Remove the top cabinet.



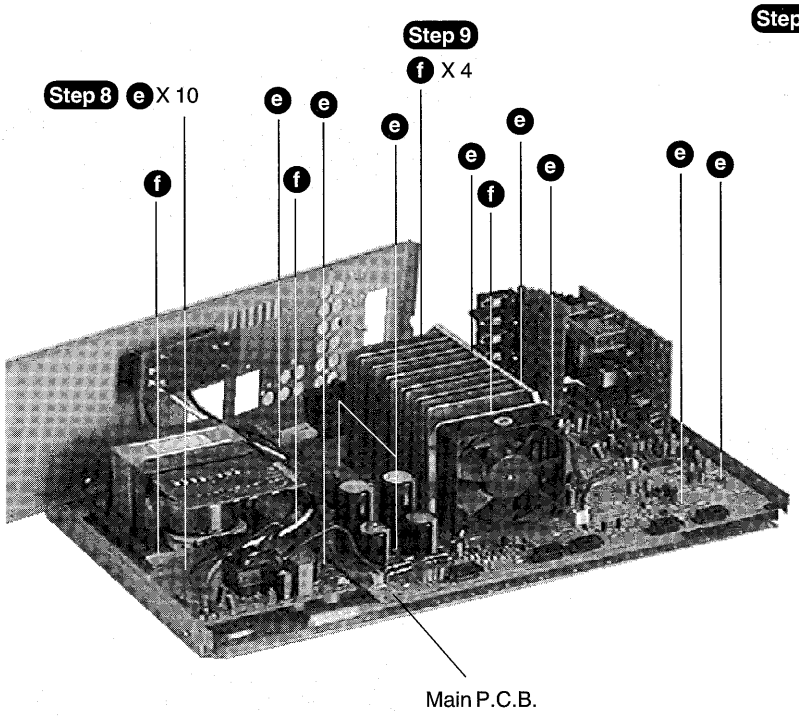
- Check the Panel P.C.B., Tuner P.C.B. and IN/OUT Terminal P.C.B. as shown above.



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)



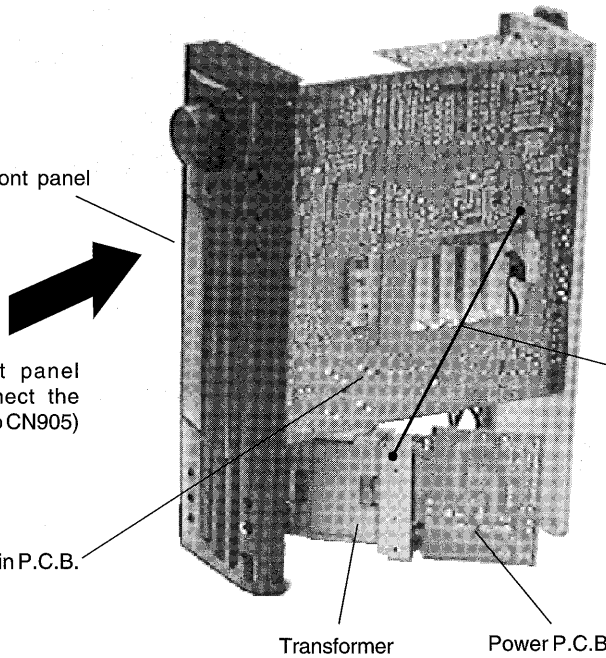
Step 7 Release the claws and then remove the rear panel slowly. (Two wires are connected to the rear panel)



Step 10 Remove the Main P.C.B. and Power P.C.B..

Step 13

Connect back the transformer to the Power P.C.B. and connect a lead wire from the Main P.C.B. ground to the transformer ground plate. Check the Main P.C.B and Power P.C.B. as shown on the left.

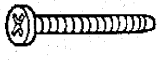


Step 11

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

Step 12

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

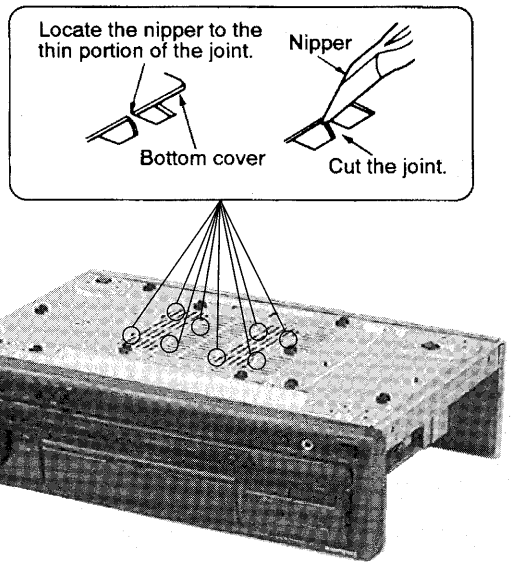
	d [XTBS3+8JFZ1] (Black)
	e [XTB3+20JFZ] (Black)
	f [XTB3+8FFZ] (Black)

■ Main Component Replacement Procedures

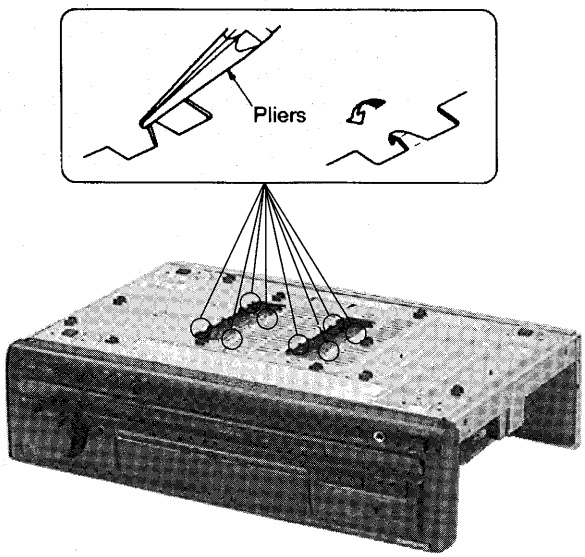
1. Replacement of the Power IC and Regulator Transistor

Step 1
Remove the top cabinet.

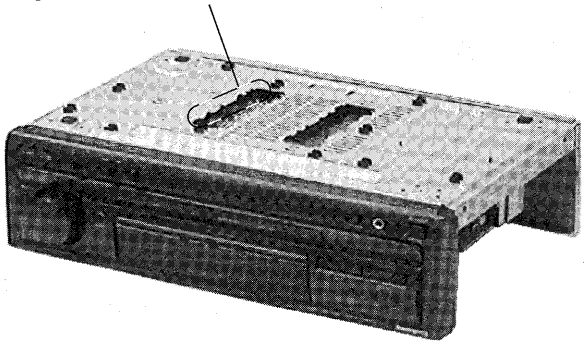
Step 2 **Cut the joints as shown below. (8 joints)**

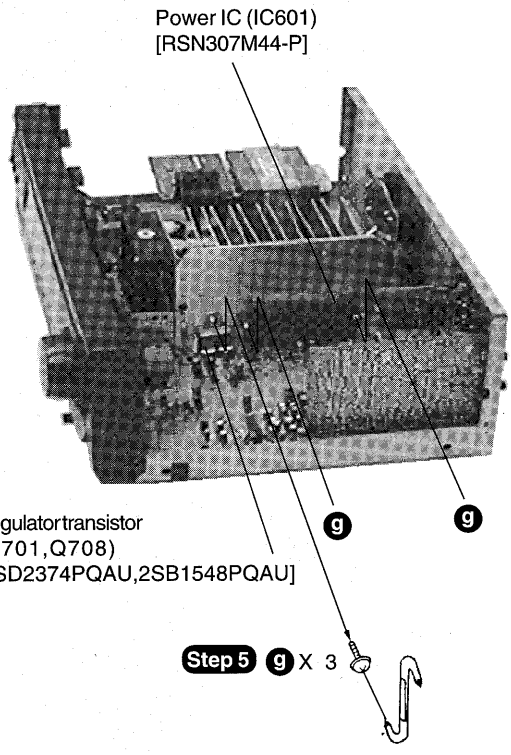


Step 3 **Fold the joints. (8 joints)**



Step 4
Desolder the terminals of Power IC and Regulator Transistor.

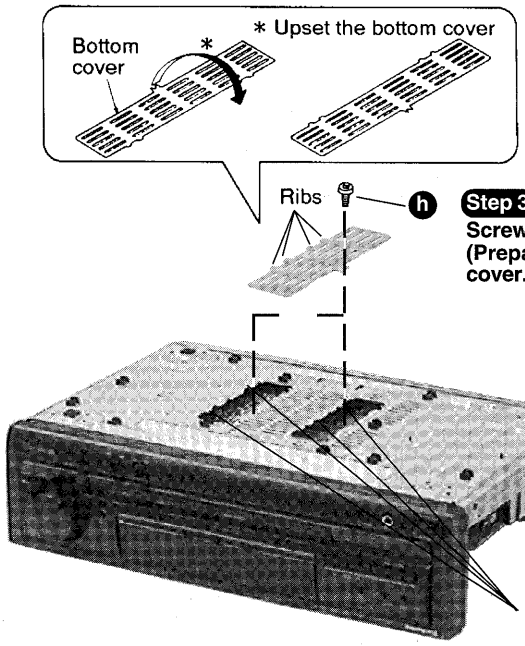




Step 5 g X 3

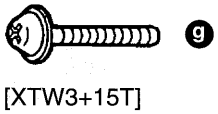
Installation of the bottom cover after replacement

Step 1



Step 3
Screw (XTB3+8J)
(Prepare this screw to fix the bottom cover.)

Step 2
Align the ribs of bottom cover with lugs.



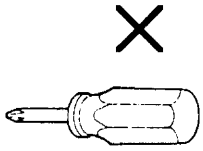
[XTW3+15T]

[XTB3+8J] (Black)

CAUTION

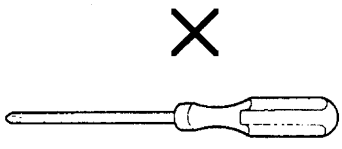
1. After replacing the power IC or regulator transistor, apply a sufficient quantity of compound grease (RFKX0002/SZZ0L15) between the heat sink and the power IC or regulator transistor (Radiation of power IC).
2. Tighten enough the screws (g) after replacing the power IC and regulator transistor. Otherwise, the heat radiation works little.
3. When installing or removing the power IC or transistor holder, be sure to use an offset screwdriver.

- A long straight screwdriver cannot be used for removing or mounting the screws since its long grip interferes with the neighbouring P.C.B. (See Fig.1)
- 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)



A short straight screwdriver

Fig.2



A short straight screwdriver

Fig.1

- Insufficient tightening will cause poor heat dissipation from the power IC and regulator transistor and,in the worst case, may lead to their thermal breakdown.

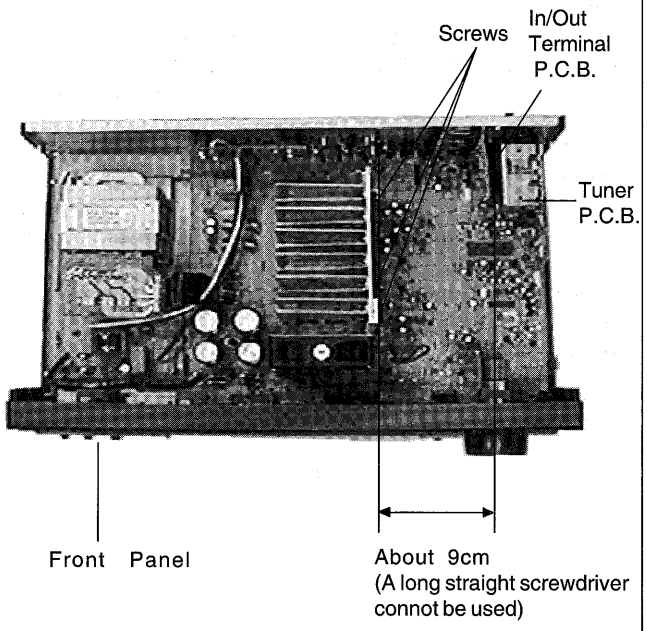
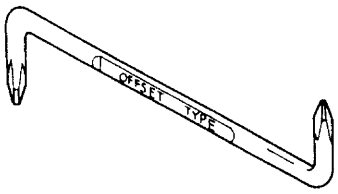


Fig.1

——OFFSET SCREWDRIVER——

•The PROTO offset screwdriver No.34-$^{1}/_{4}$ is recommended for use in the application above.



No.	⊕	⊢ L ⊣
34¼	1 & 2	4¾"

•The address of PROTO International Sales is as follows.

PROTO®

International Sales

International Sales Office
Stanley-Proto Industrial Tools
14117 Industrial Park Blvd.
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Phone: 416-335-0075

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Stanley-MEMA
Cory House The Rlng
Bracknell Berkshire
RG 12 1A2
England
Fax: 44-344-485-526
Phone: 44-344-51813

■ Fan Motor Troubleshooting

The Model SA-G67 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.

"OVER LOAD" is displayed on the FL display.

Is the air cooling path blocked or the fan motorjammed by any external obstacle?

YES → Remove the obstacle.

NO

Remove the fan from the unit.

Is the fan motor's DC resistance 20 ~ 30 Ω ?

NO → Fan motor failure
Short circuit : DC resistance below 5 Ω
Open circuit : DC resistance over 1kΩ

YES

Reinstall the fan on the unit.

Are the terminal voltage of Q772 and Q773 normal in both and inactive states of the fan motor? (see table1.)

NO → Check the integrity of Q772, Q773 and the fan motor driving circuit. (see fig.1)

YES

(Voltage table)

		fan. off	fan. on
Q772	E	-15V	-15V
	C	0V	-14.9V
	B	-14.9V	0V
Q773	E	0V	-8.0V
	C	-15V	-15V
	B	0V	-8.5V

(Table 1)

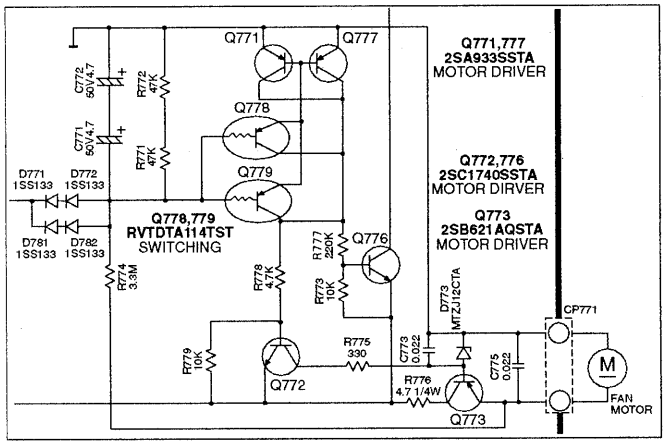


fig.1

Is an audio signal present at pins ⑦ and ⑩ of IC601

NO → The power IC (IC601) is defective.

YES

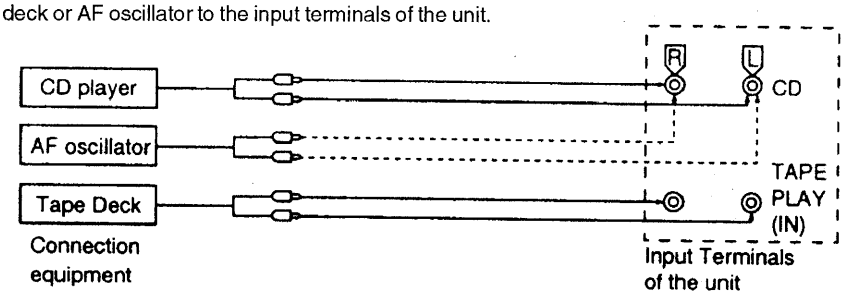
The fan motor, power IC and fan driver are functioning normally.

■ 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

When the CD player AF oscillator is connected:

Power on the unit.
Set the input selector button of the unit to the "CD" position.
Set the Speaker ON/OFF button of the unit to the "SPEAKERS" position.

Run the CD player (SZZP1054C / first program 1kHz, 0dB) or Run the AF oscillator (Oscillator output at 500Hz, 200mV)

When the tape deck is connected:

Power on the unit.
Set the input selector button of the unit to the "TAPE MONITOR" position.
Set the Speaker ON/OFF button of the unit to the "SPEAKERS" position.

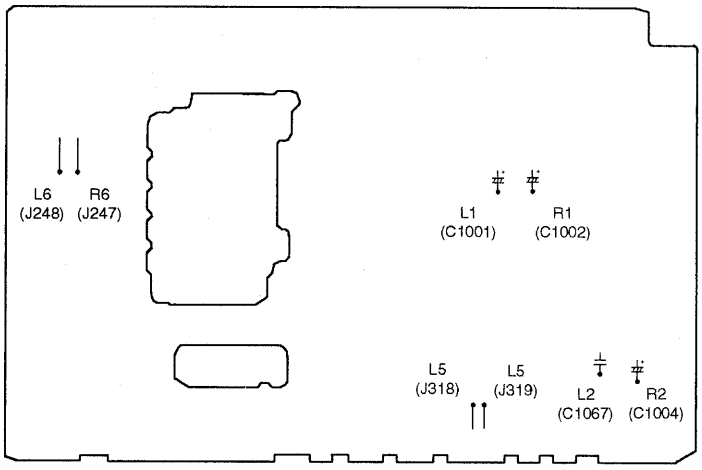
Run the tape deck (QZZCLA 315Hz, 0dB)

Using the Oscilloscope, check the output waveforms at the test points on the circuit boards of the unit in the following order:
(L1,R1) → (L2,R2) → (L3,R3) → (L4,R4) → (L5,R5) → (L6,R6).
Refer to page 10.

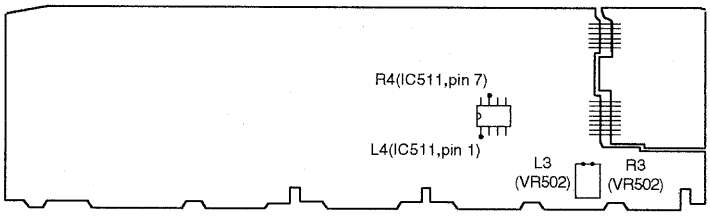
Note: Connect the ⊕ probe of the oscilloscope to each test point and the ⊖ probe to chassis ground.

TEST POINTS POSITIONS OF AMPLIFIER CIRCUIT

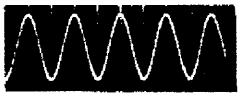
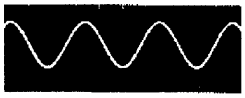
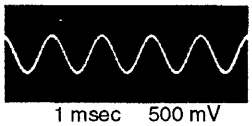
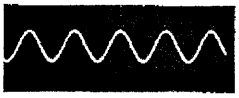
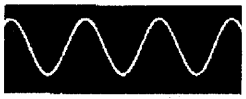
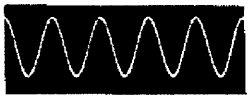
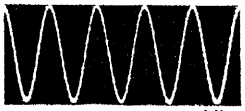
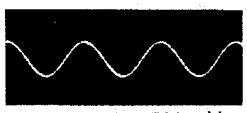
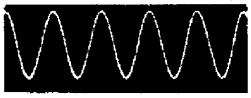
MAIN P.C.B. (COMPONENT SIDE)



PANEL P.C.B. (COMPONENT SIDE)



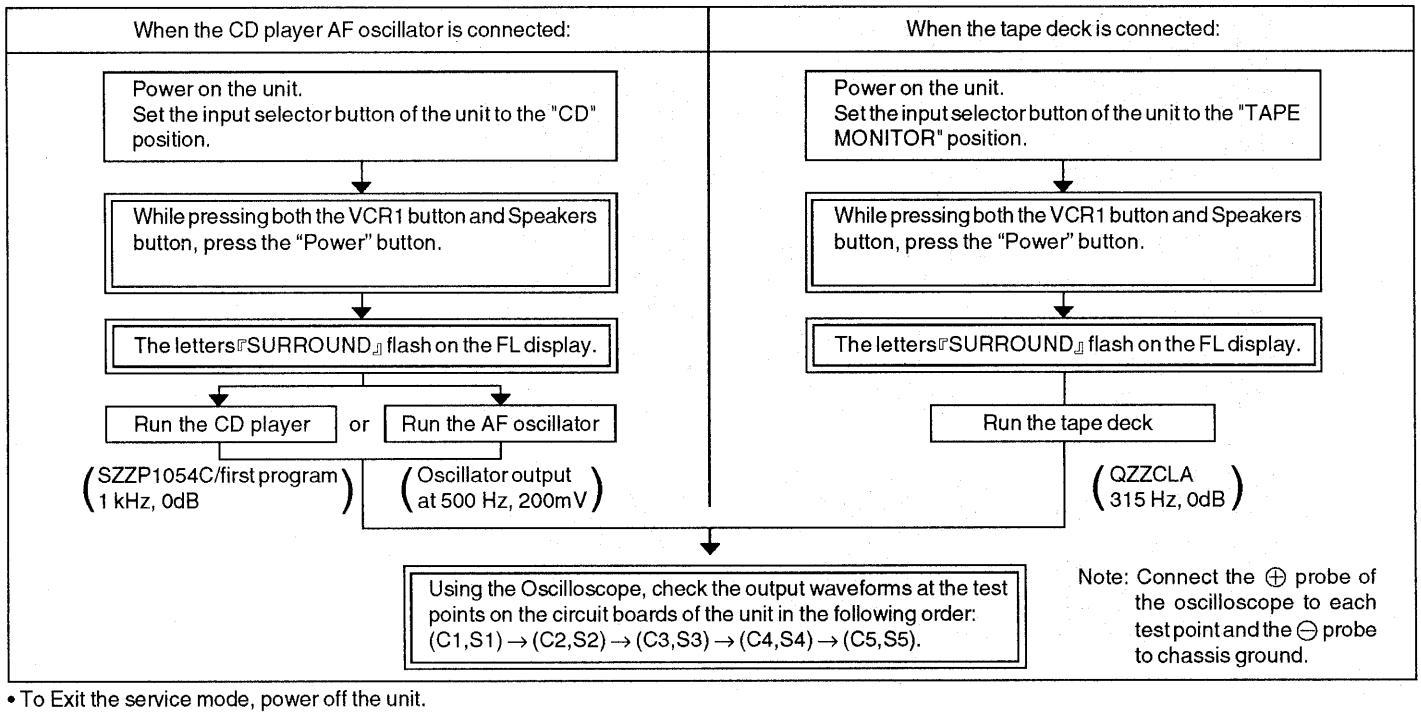
NORMAL WAVEFORMS OF AMPLIFIER CIRCUIT AND LIKELY FAULTY BLOCKS

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 2V	 1 msec 500 mV	 1 msec 500 mV	Input selector block IC402 & area
L2/R2	 0.5 msec 200 mV	 1 msec 500 mV	 1 msec 500 mV	Dolby pro logic block IC1001, IC1002 & area
L3/R3	 0.5 msec 50 mV	 1 msec 100 mV	 1 msec 50 mV	Master volume block VR501 & area
L4/R4	 0.5 msec 500 mV	 1 msec 500 mV	 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 Q561 and Q562 & area
L6/R6	 0.5 msec 5 V	 1 msec 500 mV*	 1 msec 1V*	Main amplifier block IC601 & area

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

CHECKING PROCEDURE FOR SURROUND CIRCUIT

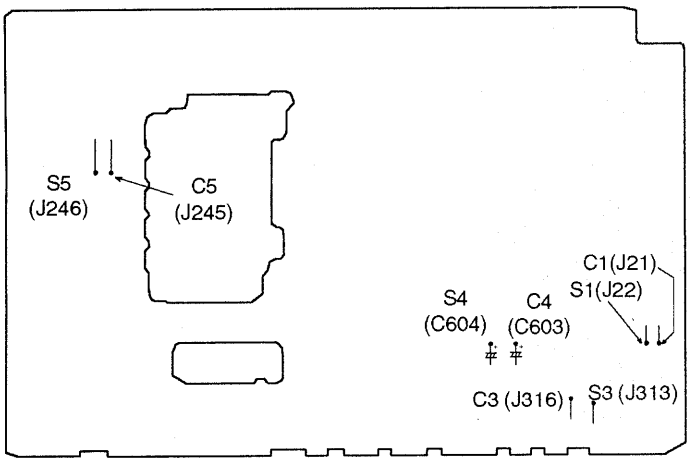
Outputting surround signals normally requires that opposite phase signals be applied to both the left and right channels. However, this unit incorporates a service mode, allowing the surround circuit to be tested using in-phase signals.



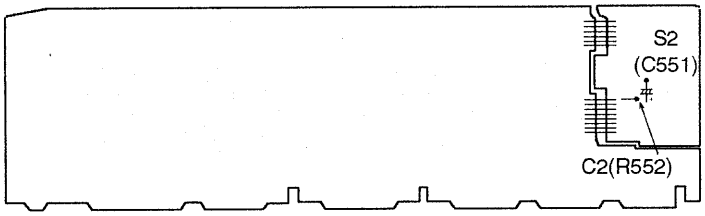
• To Exit the service mode, power off the unit.

TEST POINTS POSITIONS OF SURROUND CIRCUIT

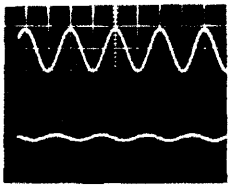
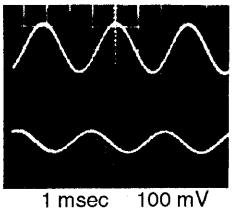
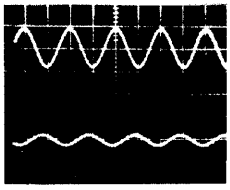
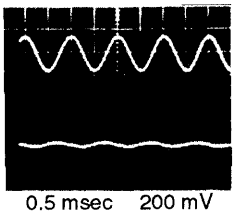
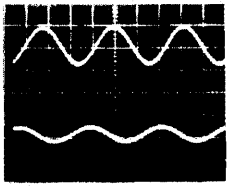
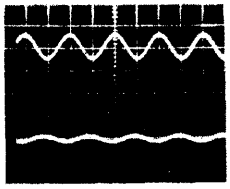
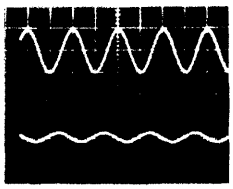
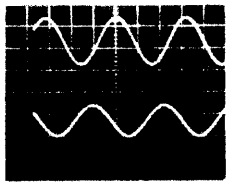
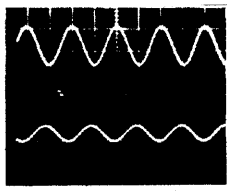
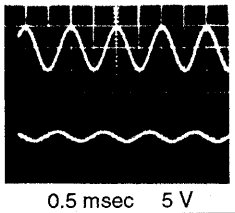
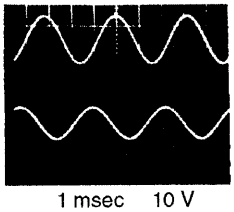
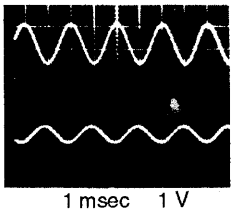
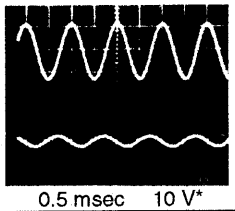
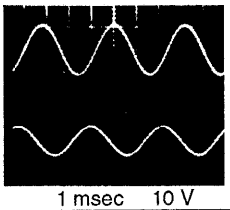
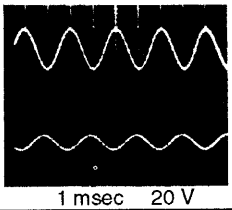
MAIN P.C.B. (COMPONENT SIDE)



PANEL P.C.B. (COMPONENT SIDE)

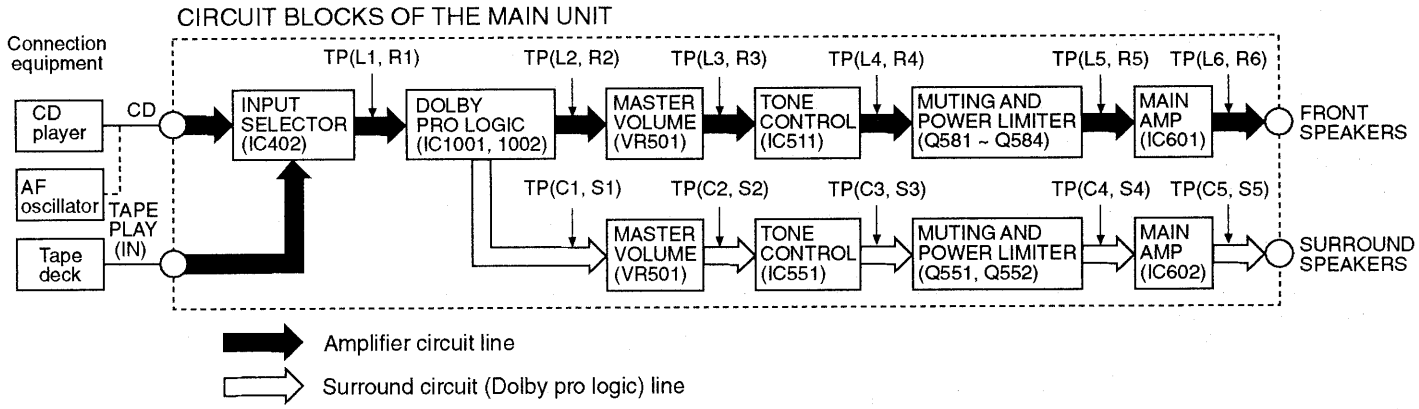


NORMAL WAVEFORMS OF SURROUND CIRCUIT AND LIKELY FAULTY BLOCKS

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 IC's

• IC901 (M38B53M4050F) System Microprocessor

Pin No.	Mark	I/O	Function
1~4	KEY4~KEY1	I	Key matrix detect terminal
5	THERM/OVLD	O/I	Mute control / Overload detect terminal
6	FM_STEREO	I	Stereo signal detect terminal
7	6CH_ST	–	Not used
8	RDS_ST	–	Not used
9	REMOTE	I	Remote control terminal
10	RESET	I	Reset detect terminal
11	RDS_CK	–	Not used
12	RDS_DT	–	Not used
13	GND	–	GND terminal
14	XIN	I	Crystal oscillator terminal
15	XOUT	O	(4MHz)
16	VDD	I	Power supply terminal
17~21	SFC5-SFC1	–	Not used
22	HOLD	I	Hold signal input terminal
23	STANDBY_LED	–	Not used
24	FAN_STOP	–	Not used
25	RLY	O	Relay control terminal
26	TV/VCR2	–	Not used
27	LIMITTER	–	Not used
28	VEE	I	Power supply terminal
29	S/C_SP	O	Surround/center speaker select control terminal
30	SP_B	–	Not used
31	SP_A	O	speaker select control terminal
32	AF_MUTE	O	Mute control terminal
33~48	SEG16-SEG1	O	Segment signal of FL display

Pin No.	Mark	I/O	Function
49~58	DEG1-DEG10	O	Digit signal of FL display
59	INIT_IN	–	Not used, connect to resistor
60	VOL_DOWN	O	Rotate control terminal of
61	VOL_UP	O	volume motor
62	LOUDNESS	–	Not used
63	IF_DATA	I	Serial data signal
64	REC_MUTE	–	Not used
65	TNR_CE	O	Chip enable signal
66	SEL/TNR_CK	O	Serial clock signal
67	SEL/TNR_DT	O	Serial data signal
68	SEL_ST	O	Level shift control terminal
69	OSD_ST	–	Not used
70	SURR/OSD_CK	O	Serial clock signal
71	SURR/OSD_DT	O	Serial data signal
72	SURR_CE	O	Chip enable signal
73	AVSS	I	Power supply terminal
74	VREF	I	Power supply terminal
75	SD	I	Received signal detect terminal
76	AC3_LED	–	Not used
77	HELP_LED	–	Not used
78	VIDEO_DET	–	Not used
79	VIDEO_B	O	Video selector control terminal
80	VIDEO_A	O	

■ Measurements and Adjustments

• AM-IF ALIGNMENT

SIGNAL GENERATOR or SWEEP GENERATOR		RADIO DIAL SETTING	INDICATOR (ELECTRONIC VOLTMETER or OSCILLOSCOPE)	ADJUSTMENT (Shown in Fig. 1)	REMARKS
CONNECTIONS	FREQUENCY				
Fashion a loop of several turns of wire and radiate a signal into the loop ant. of receiver.	450kHz 30 % Mod. at 400 Hz	Point of non-interference.(on/ about 600kHz)	Headphone Jack (32Ω) (Fabricate the plug as shown in Fig.2 and then connect the lead wires of the plug to the measuring instrument.)	Z102 (AM IFT)	Adjust for maximum output.

• AM-RF ALIGNMENT

"	530kHz	Tuning capacitor fully closed.	"	Z101 (AM OSC Coil)	Adjust for maximum output.
"	610kHz	Tune to signal	"	Z101 (AM ANT Coil)	Adjust for maximum output.

• Alignment Points

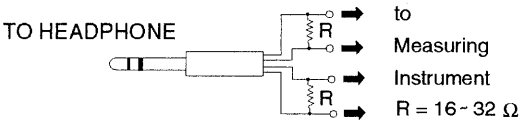


Fig. 2

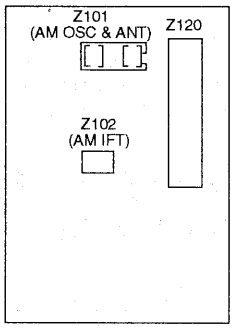
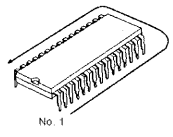
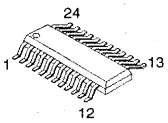
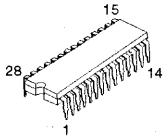
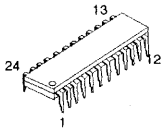
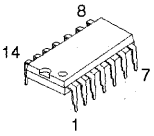
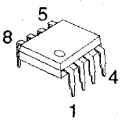
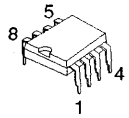
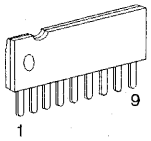
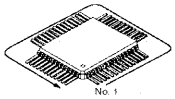
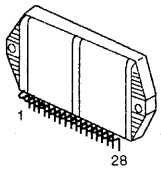
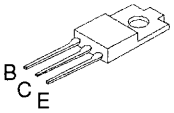
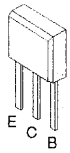
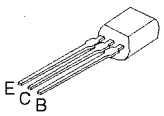
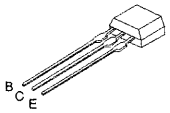
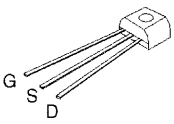
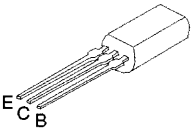
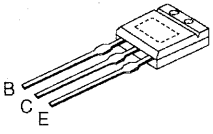
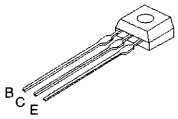
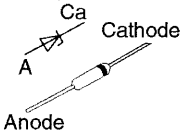
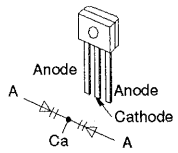
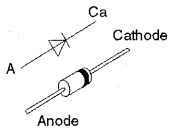
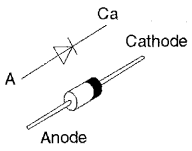
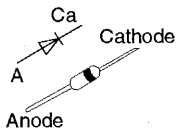


Fig. 1

■ Terminal Guide of IC's, Transistors and Diodes

LA2786L (42 PIN) 	LA1832A LC7218 	TC9163AN 	LV1016L 	NJM2279D 	M5218AP 
AN6558F UPC4570C 	BA6218 	M38B53M4050F (65 PIN) 	RSN307M44-P 	2SB1548PQAU 2SD2374PQAU 	2SC3311ARTA 
2SD592AQRTA 2SA992EFTA 2SB621AQSTA 2SC3311AQSTA 		2SA933SSTA 2SC1740SSTA RVTDTA114EST RVTDTA114TST RVTDTC114YST	2SK544F-AC 	2SC3940AQSTA 	2SC1417PQTA 2SD2137PQTA 
	2SC1740SSTA 2SC2785FETA 2SC2786MTA 2SC2787FL1TA 2SC2785FETA	2SC2786MTA 2SC2787LTA 2SD1915FTA RVTDTC143XST RVTDTA113ZST		MTZJ10CTA MTZJ12CTA MTZJ15CTA MTZJ24DTA MTZJ27DTA MTZJ3R9ATA	MTZJ4R7BTA MTZJ5R1BTA MTZJ5R6BTA MTZJ6R2BTA MTZJ6R8BTA MTZJ7R5CTA

■ Terminal Guide of IC's, Transistors and Diodes (continue)

SVC211SPA-AL	1N5402BM21	SB360L6508	
			 1SR35200TB 1SS291TA MA167ATA RVD1SS133TA

■ Schematic Diagram

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

Note :

< for Power Switch circuit > (Page 25)

- **S946** : Power switch
- **S950** : FM Auto / Mono switch
- **S951** : Band select switch
- **S952** : Tuning decrease switch
- **S953** : Tuning increase switch

< for Panel circuit and Volume circuit > (Page 19 ~ 20)

- **S947** : Phono select switch
- **S948** : Muting switch
- **S955** : 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 / DVD select switch
- **S964** : VCR1 select switch
- **S970** : Center mode select switch
- **S972** : Display mode select switch
- **S974** : Dolby Pro Logic/SFC off on switch
- **S980** : Speaker on/off 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 5.0A 125V FUSE**
F3 8.0A 125V FUSE
F4 8.0A 125V FUSE

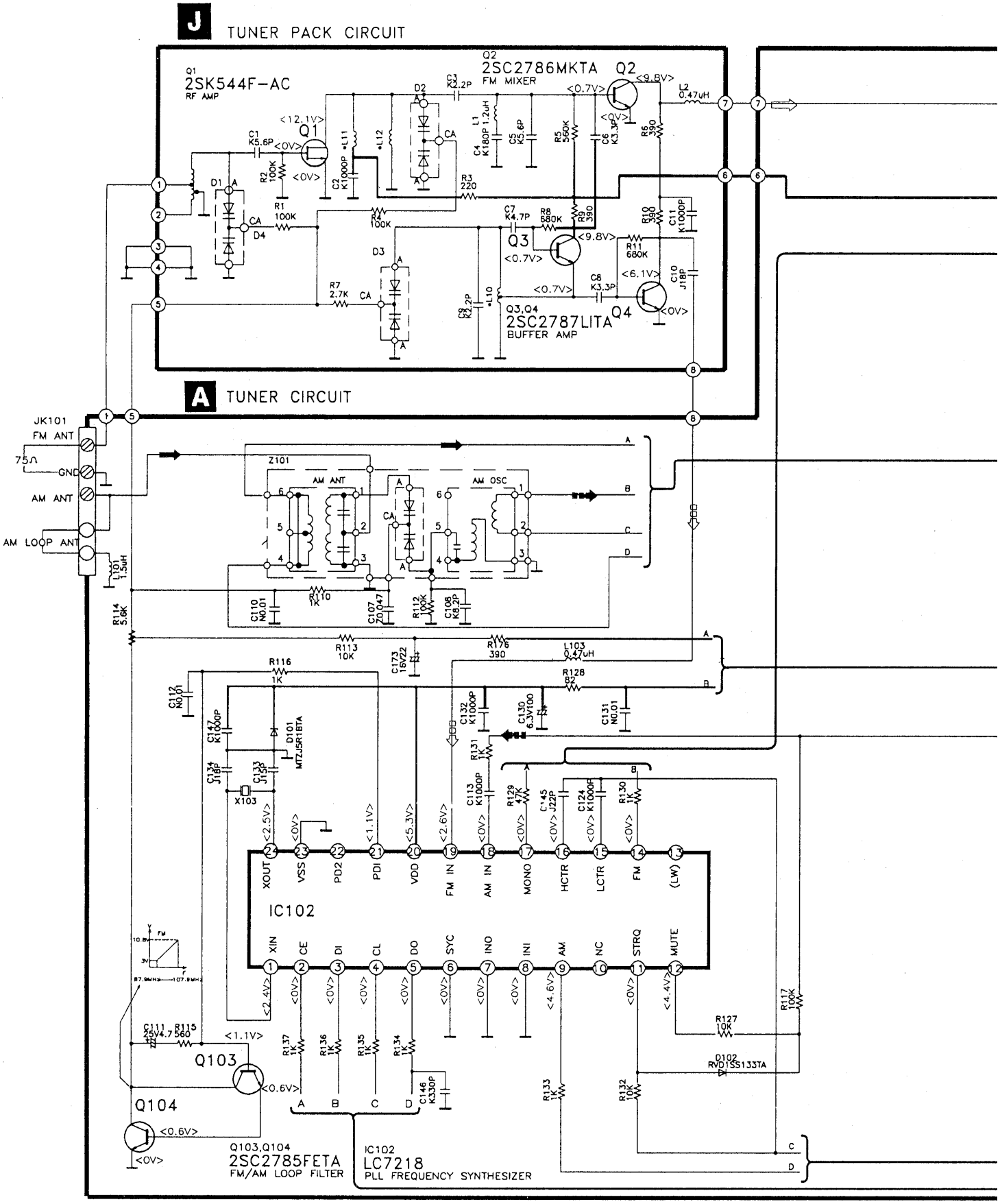
RISK OF FIRE-REPLACE FUSE AS MARKED.

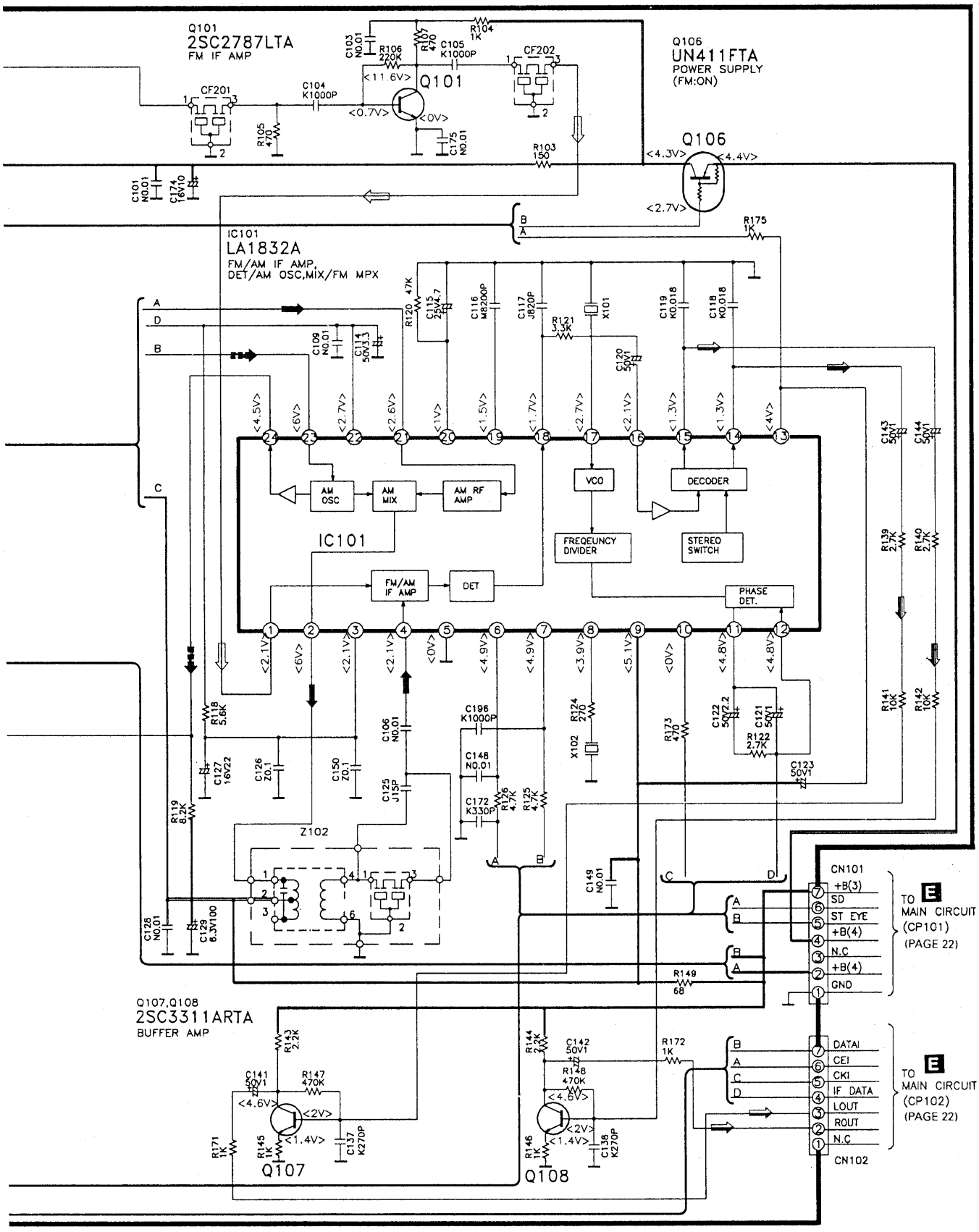
FUSE CAUTION

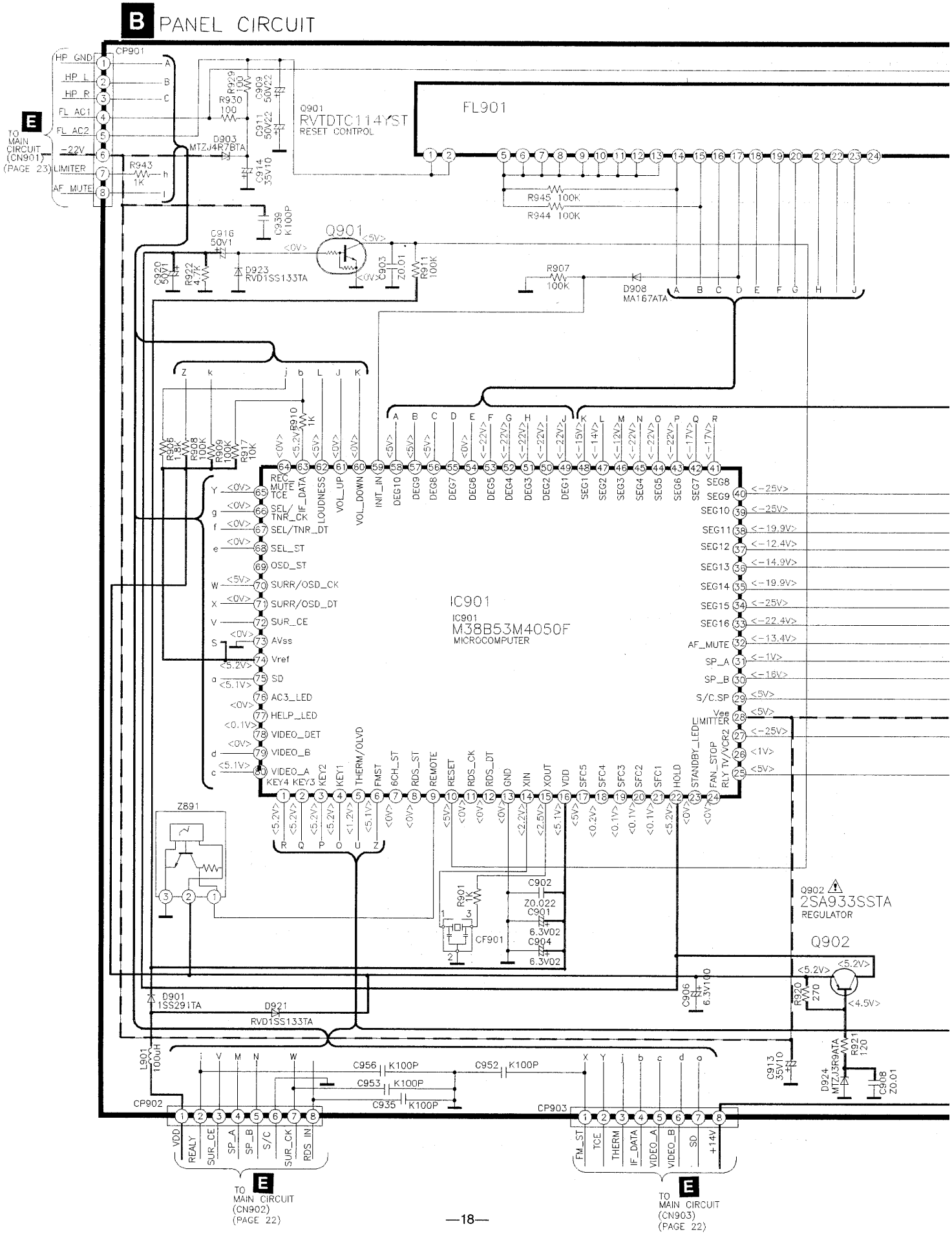
These symbols located near the fuse indicates that the fuse used is a fast operating type. For continued protection against fire harzard, replace with the same type fuse. For fuse rating, refer to the marking adjacent to the symbol.

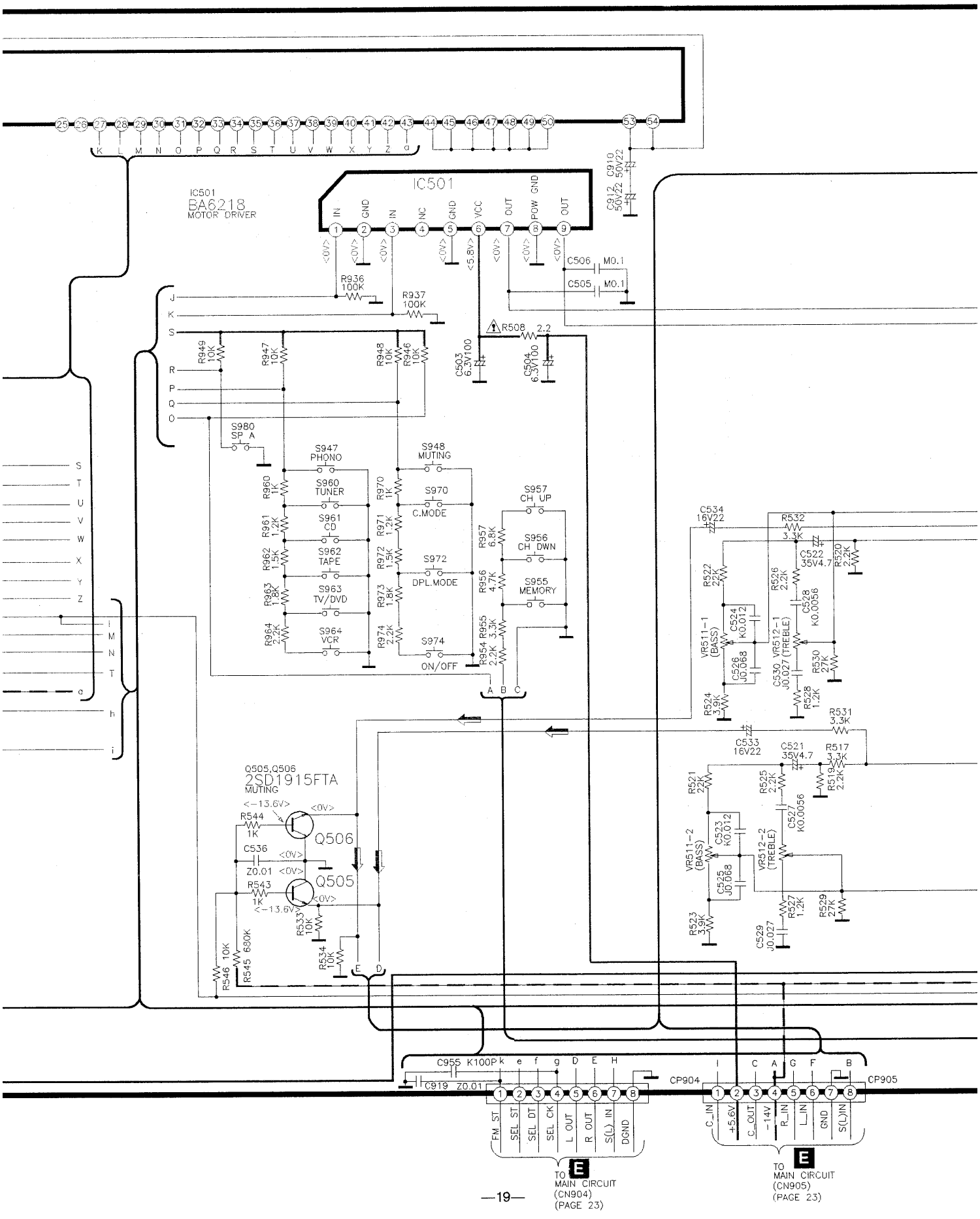
Ce symbole indique que le fusible utilisé est à rapide. Pour une protection permanente, n' utiliser que des fusibles de même type. Ce dernier est indiqué là qù le présent symbole est apposé.

■ Schematic Diagram

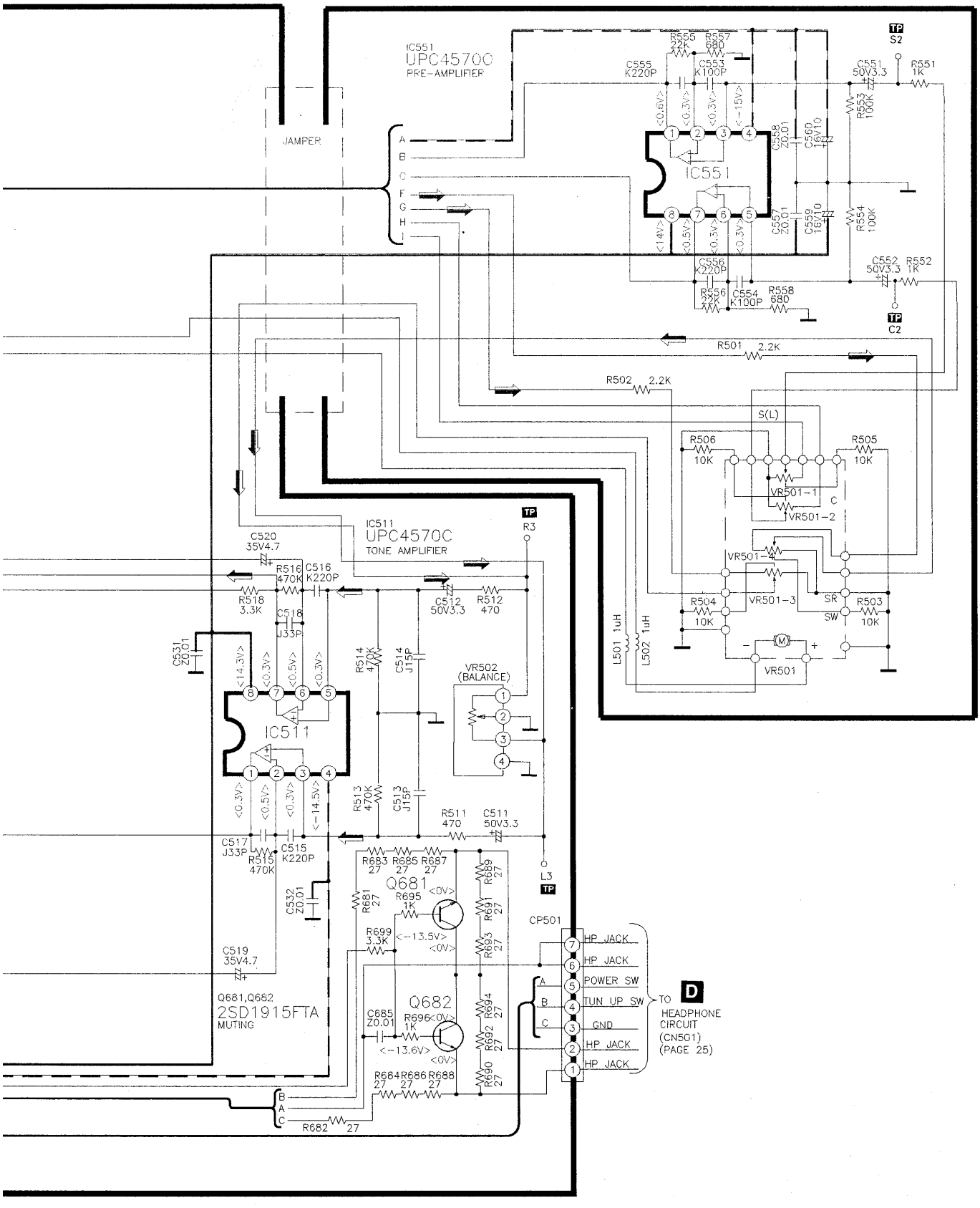



Q101
2SC2787LTA
FM IF AMP
Q106
UN411FTA
POWER SUPPLY
(FM:ON)
IC101
LA1832A
FM/AM IF AMP,
DET/AM OSC,MIX/FM MPX
AM OSC
AM MIX
AM RF AMP
VCO
DECODER
FREQEUNCY DIVIDER
STEREO SWITCH
FM/AM IF AMP
DET
PHASE DET.
Z102
Q107,Q108
2SC3311ARTA
BUFFER AMP
Q107
Q108
CN101
+B(3)
SD
ST EYE
+B(4)
N.C
+B(4)
GND
TO E MAIN CIRCUIT (CP101) (PAGE 22)
DATAI
CEI
CKI
IF DATA
LOUT
ROUT
N.C
CN102
TO E MAIN CIRCUIT (CP102) (PAGE 22)

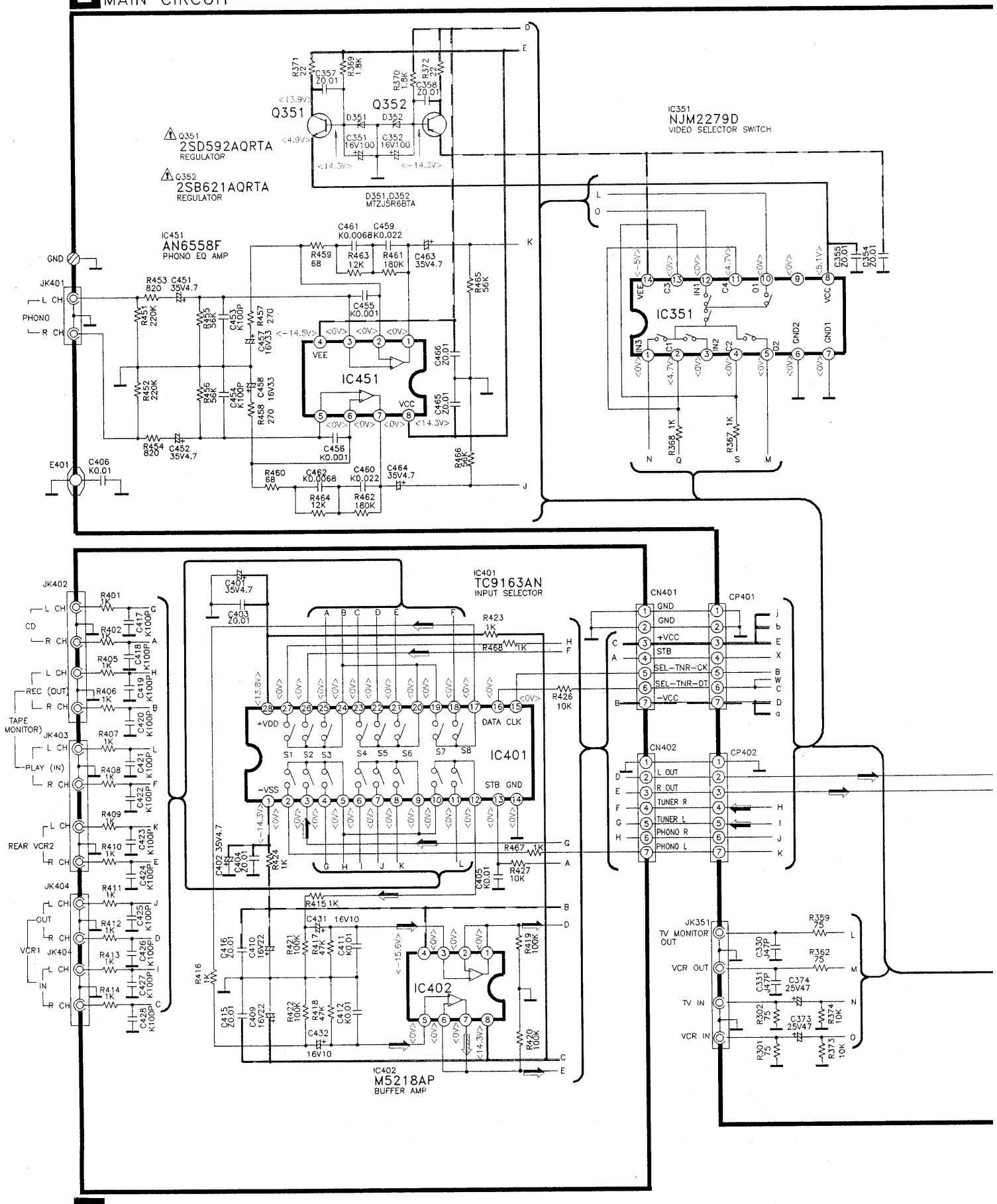

B PANEL CIRCUIT
CP901
HP_GND
HP_L
HP_R
FL_AC1
FL_AC2
-22V
LIMITER
AF_MUTE
TO MAIN CIRCUIT (CN901) (PAGE 23)
Q901
RVTDTC114YST
RESET CONTROL
FL901
D903
MTZJ4R7BTA
D923
RVD1SS133TA
D908
MA167ATA
IC901
IC901
M38B53M4050F
MICROCOMPUTER
REC MUTE
TCE
SEL/ TNR_CK
SEL/TNR_DT
SEL_ST
OSD_ST
SURR/OSD_CK
SURR/OSD_DT
SUR_CE
AVss
Vref
SD
AC3_LED
HELP_LED
VIDEO_DET
VIDEO_B
VIDEO_A
KEY4 KEY3 KEY2 KEY1 THERM/OLVD FMST 6CH_ST RDS_ST REMOTE RESET RDS_CK RDS_DT GND XIN XOUT VDD SFC5 SFC4 SFC3 SFC2 SFC1 HOLD STANDBY_LED FAN_STOP RLY TV/VCR2
LOUDNESS VOL_UP VOL_DOWN INIT_IN
SEG8 SEG9 SEG10 SEG11 SEG12 SEG13 SEG14 SEG15 SEG16
AF_MUTE SP_A SP_B S/C.SP Vee LIMITTER
Z891
CF901
Q902
2SA933SSTA
REGULATOR
D901
1SS291TA
D921
RVD1SS133TA
L901
100uH
CP902
VDD REALY SUR_CE SP_A SP_B S/C SUR_CK RDS_IN
TO MAIN CIRCUIT (CN902) (PAGE 22)
CP903
FM_ST TCE THERM IF_DATA VIDEO_A VIDEO_B SD +14V
TO MAIN CIRCUIT (CN903) (PAGE 22)
D924
MTZJ3R9ATA


IC501
BA6218
MOTOR DRIVER
IC501
IN
GND
IN
NC
GND
VCC
OUT
POW GND
OUT
C910 50V22
C912 50V22
C506 M0.1
C505 M0.1
R936 100K
R937 100K
R508 2.2
C503 6.3V100
C504 6.3V100
R949 10K
R947 10K
R948 10K
R946 10K
S980 SP A
S947 PHONO
S960 TUNER
S961 CD
S962 TAPE
S963 TV/DVD
S964 VCR
S948 MUTING
S970 C.MODE
S972 DPL.MODE
S974 ON/OFF
S957 CH UP
S956 CH DWN
S955 MEMORY
R960 1K
R961 1.2K
R962 1.5K
R963 1.8K
R964 2.2K
R970 1K
R971 1.2K
R972 1.5K
R973 1.8K
R974 2.2K
R957 6.8K
R956 4.7K
R955 3.3K
R954 2.2K
Q505,Q506
2SD1915FTA
MUTING
Q506
Q505
R544 1K
C536 Z0.01
R543 1K
R533 10K
R534 10K
R546 10K
R545 680K
C534 16V22
C533 16V22
C522 35V4.7
C521 35V4.7
R532 3.3K
R531 3.3K
R517 3.3K
R519 2.2K
R520 2.2K
R522 22K
R521 22K
R526 2.2K
R525 2.2K
C528 K0.0056
C527 K0.0056
C524 K0.012
C523 K0.012
VR511-1 (BASS)
VR512-1 (TREBLE)
VR511-2 (BASS)
VR512-2 (TREBLE)
C526 J0.068
C525 J0.068
C530 J0.027
C529 J0.027
R524 3.9K
R523 3.9K
R528 1.2K
R527 1.2K
R530 27K
R529 27K
C955 K100P
C919 Z0.01
CP904
CP905
FM ST
SEL ST
SEL DT
SEL CK
L OUT
R OUT
S(L) IN
DGND
C IN
+5.6V
C OUT
-14V
R IN
L IN
GND
S(L)IN
TO MAIN CIRCUIT (CN904) (PAGE 23)
TO MAIN CIRCUIT (CN905) (PAGE 23)

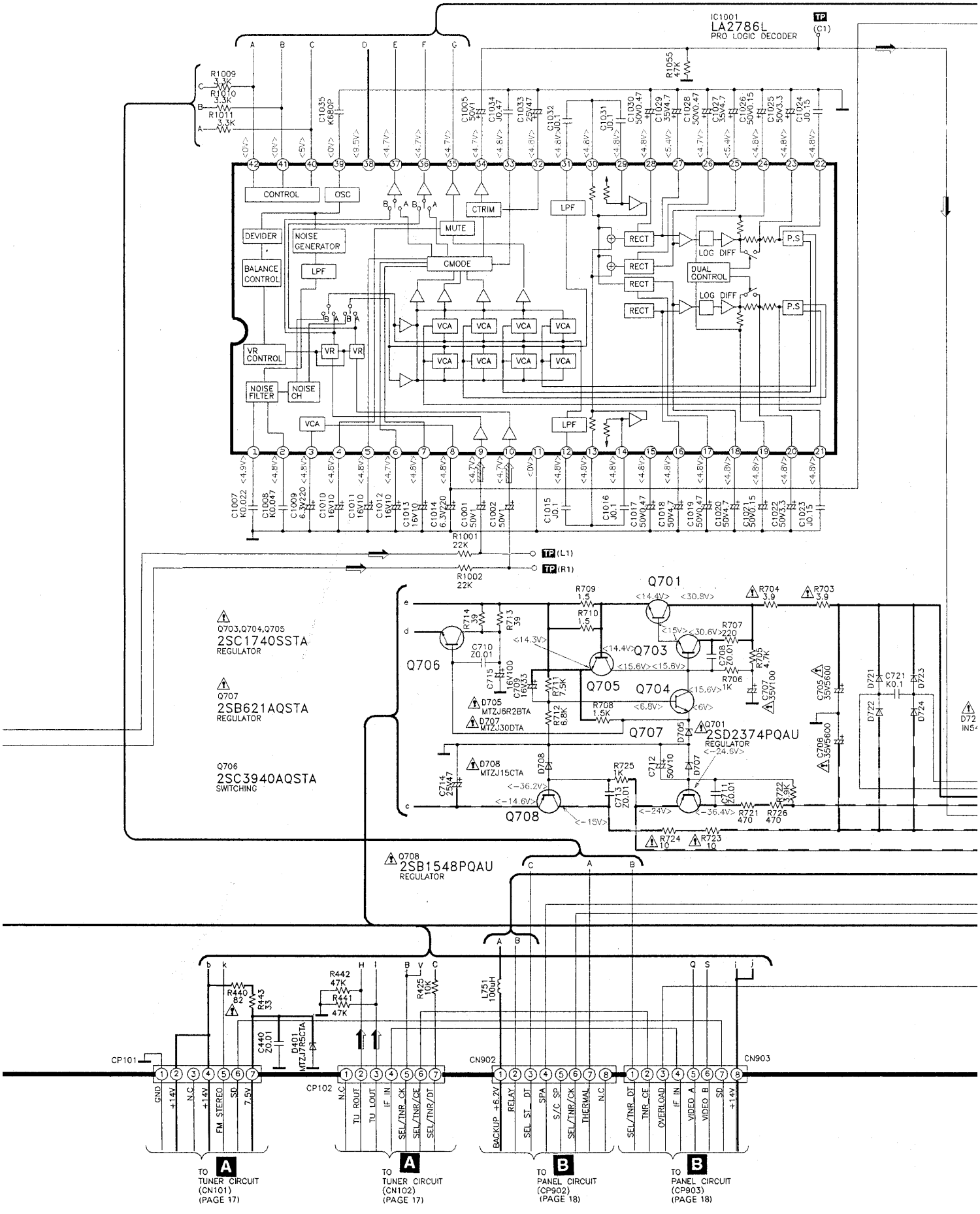
C VOLUME CIRCUIT

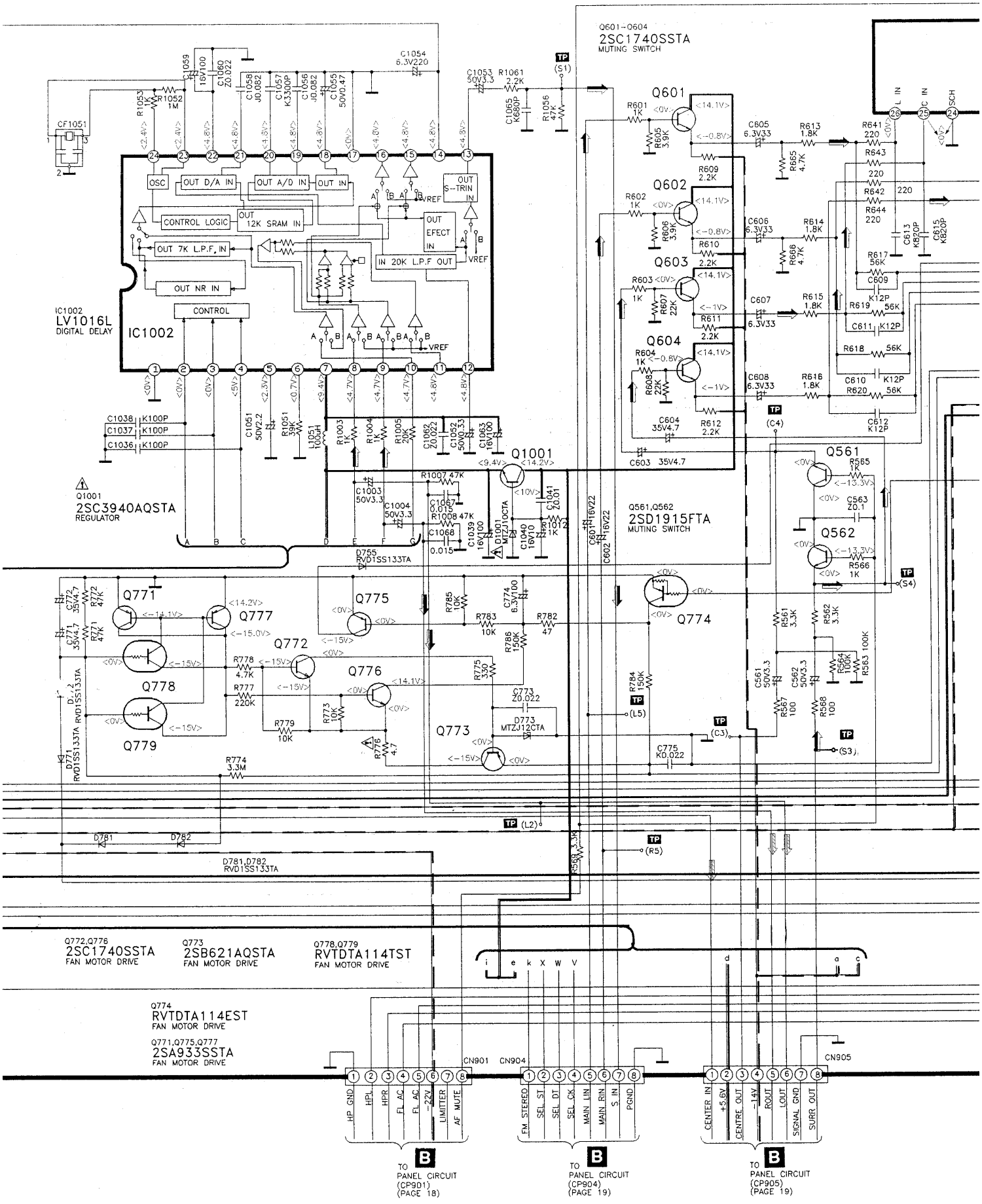


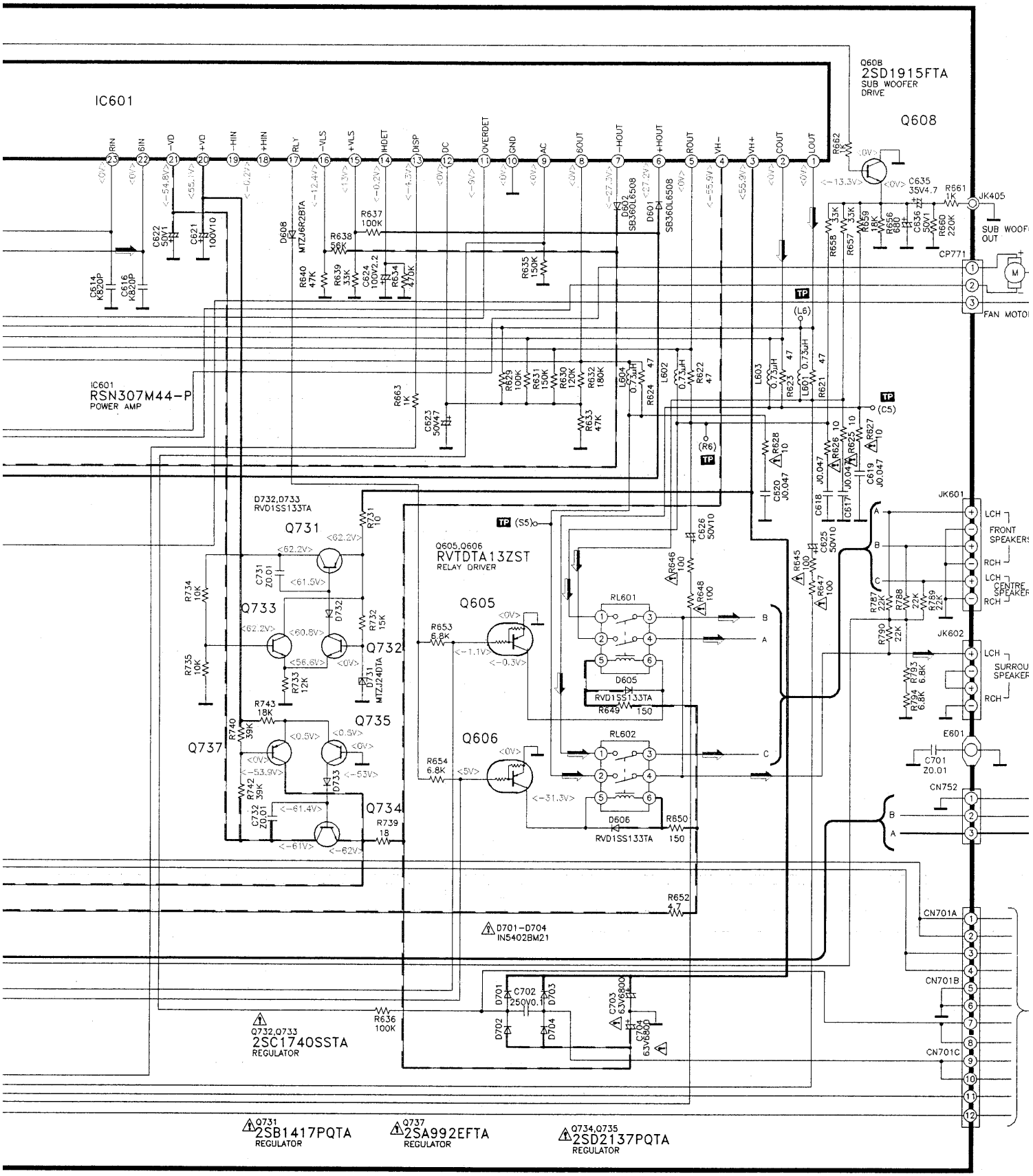
E MAIN CIRCUIT

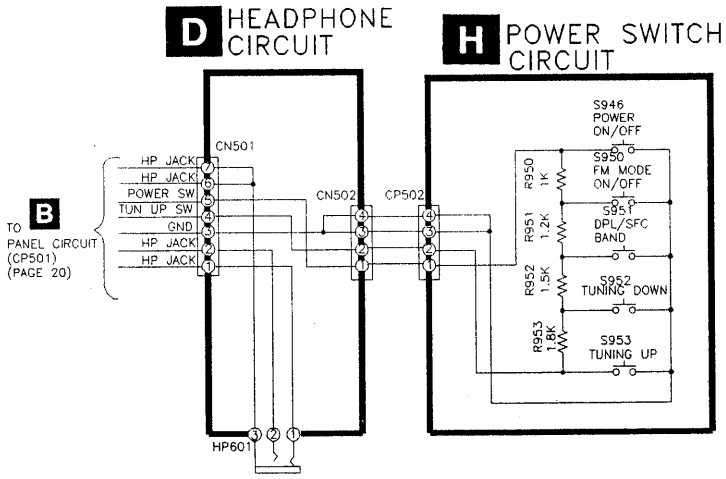


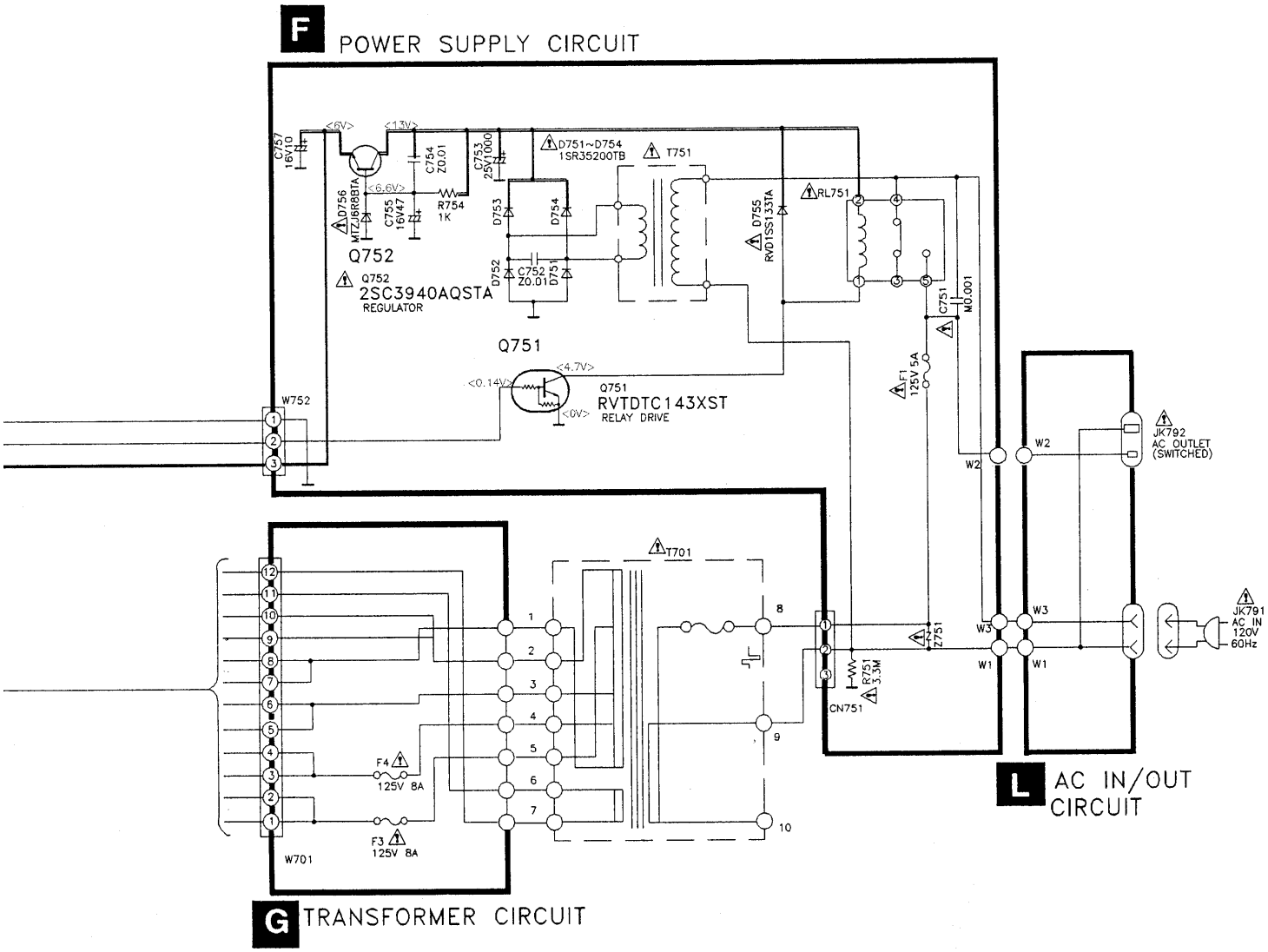
I IN/OUT TERMINAL CIRCUIT


IC1001
LA2786L
PRO LOGIC DECODER
TP (C1)
CONTROL
OSC
CTRIM
MUTE
LPF
DEVIDER
NOISE GENERATOR
BALANCE CONTROL
CMODE
RECT
LOG DIFF
DUAL CONTROL
P.S
VCA
VR CONTROL
VR
NOISE FILTER
NOISE CH
TP (L1)
TP (R1)
Q703,Q704,Q705
2SC1740SSTA
REGULATOR
Q707
2SB621AQSTA
REGULATOR
Q706
2SC3940AQSTA
SWITCHING
Q701
2SD2374PQAU
REGULATOR
Q708
2SB1548PQAU
REGULATOR
D705 MTZJ6R2BTA
D707 MTZJ30DTA
D708 MTZJ15CTA
CP101
CP102
CN902
CN903
GND
+14V
N.C
FM STEREO
SD
7.5V
TU ROUT
TU LOUT
IF IN
SEL/TNR_CK
SEL/TNR/CE
SEL/TNR/DT
BACKUP +6.2V
RELAY
SEL_ST_DT
SFA
S/C SP
THERMAL
TNR_DT
TNR_CE
OVERLOAD
VIDEO A
VIDEO B
TO TUNER CIRCUIT (CN101) (PAGE 17)
TO TUNER CIRCUIT (CN102) (PAGE 17)
TO PANEL CIRCUIT (CP902) (PAGE 18)
TO PANEL CIRCUIT (CP903) (PAGE 18)

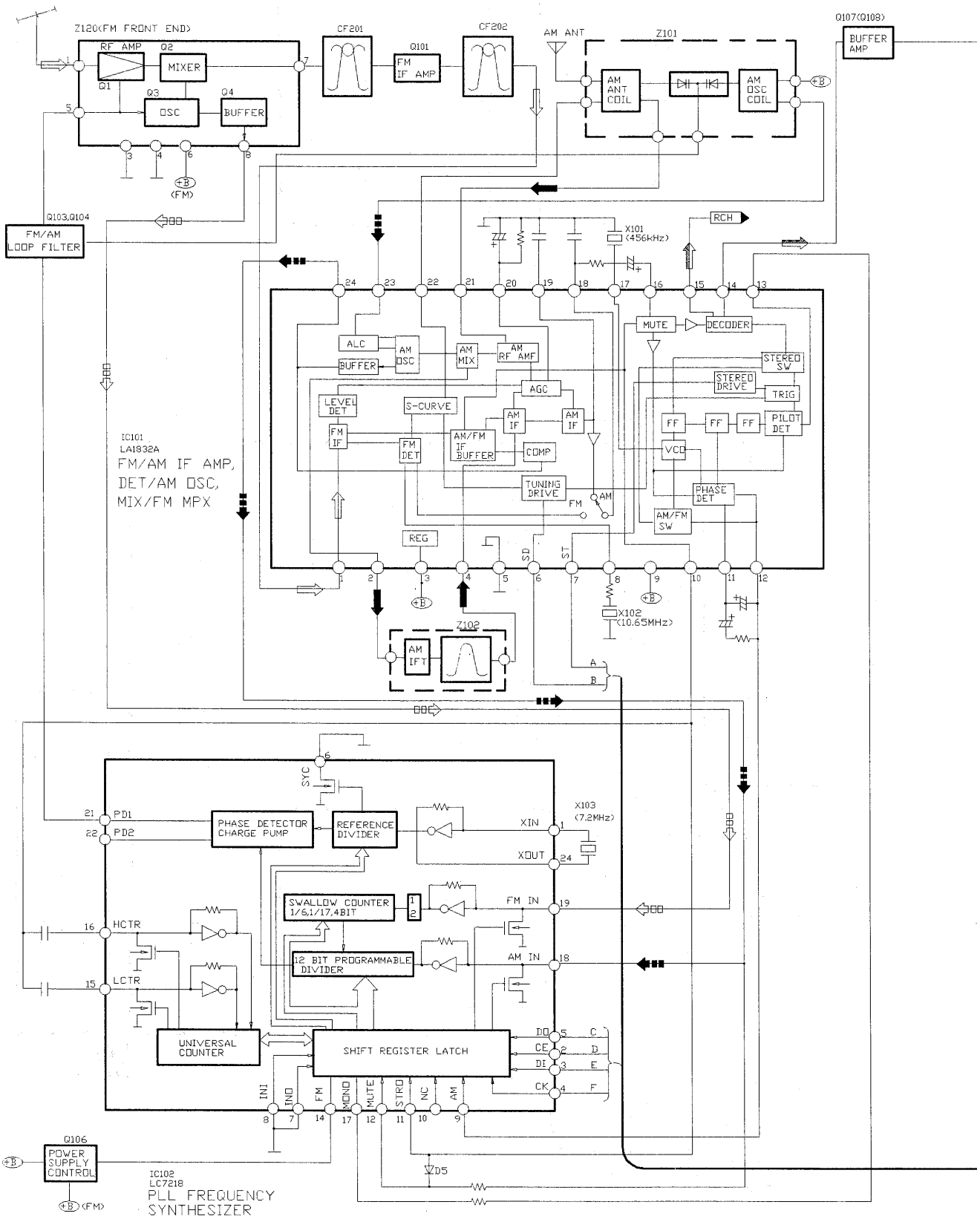

IC1002
LV1016L
DIGITAL DELAY
Q1001
2SC3940AQSTA
REGULATOR
Q601~0604
2SC1740SSTA
MUTING SWITCH
Q561,Q562
2SD1915FTA
MUTING SWITCH
Q772,Q776
2SC1740SSTA
FAN MOTOR DRIVE
Q773
2SB621AQSTA
FAN MOTOR DRIVE
Q778,Q779
RVTDTA114TST
FAN MOTOR DRIVE
Q774
RVTDTA114EST
FAN MOTOR DRIVE
Q771,Q775,Q777
2SA933SSTA
FAN MOTOR DRIVE
D781,D782
RVD1SS133TA
CN901
CN904
CN905
HP GND
HPL
HPR
FL AC
FL AC
-22V
LIMITTER
AF MUTE
FM STEREO
SEL ST
SEL DT
SEL CK
MAIN LIN
MAIN RIN
S IN
PGND
CENTER IN
+5.6V
CENTRE OUT
-14V
ROUT
LOUT
SIGNAL GND
SURR OUT
TO PANEL CIRCUIT (CP901) (PAGE 18)
TO PANEL CIRCUIT (CP904) (PAGE 19)
TO PANEL CIRCUIT (CP905) (PAGE 19)

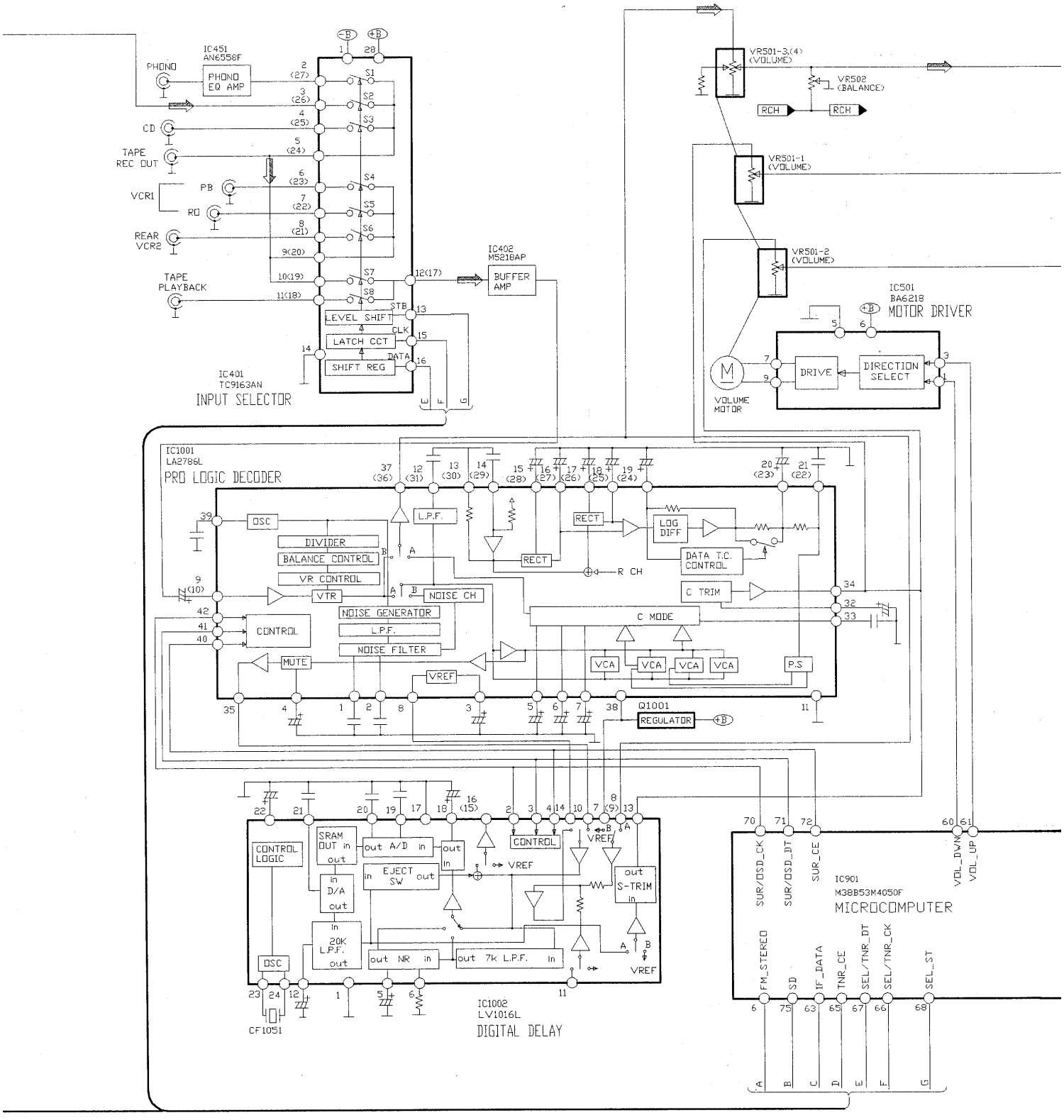

IC601
Q608
2SD1915FTA
SUB WOOFER
DRIVE
IC601
RSN307M44-P
POWER AMP
Q731
Q733
Q732
Q735
Q737
Q734
Q605,Q606
RVTDTA13ZST
RELAY DRIVER
Q605
Q606
RL601
RL602
D605
RVD1SS133TA
D606
RVD1SS133TA
D732,D733
RVD1SS133TA
D701-D704
IN5402BM21
Q732,Q733
2SC1740SSTA
REGULATOR
Q731
2SB1417PQTA
REGULATOR
Q737
2SA992EFTA
REGULATOR
Q734,Q735
2SD2137PQTA
REGULATOR
JK405
SUB WOOF
OUT
CP771
FAN MOTO
JK601
FRONT
SPEAKERS
JK602
SURROU
SPEAKER
E601
CN752
CN701A
CN701B
CN701C
LCH
RCH
CENTRE
SPEAKER

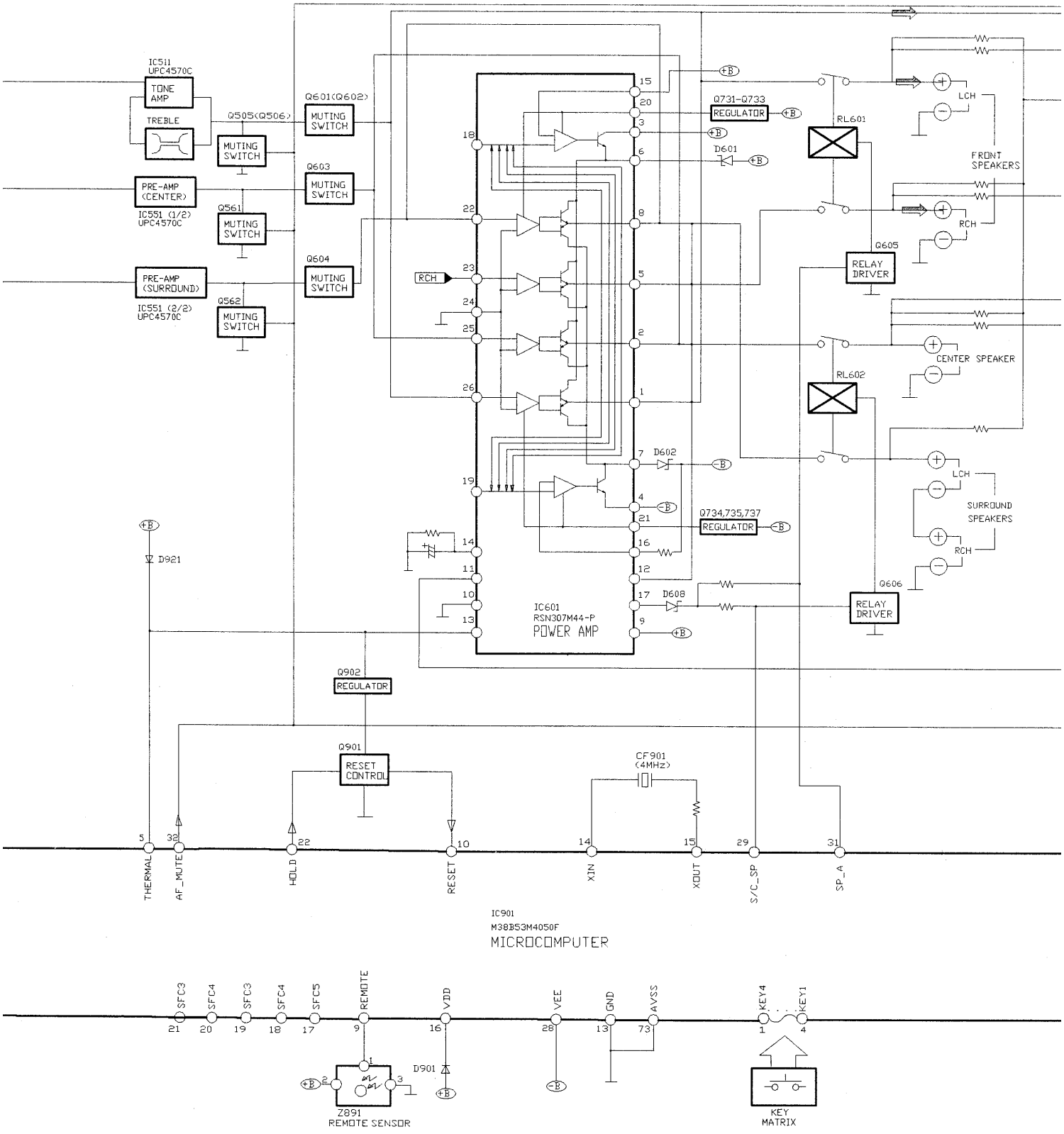

D HEADPHONE CIRCUIT
H POWER SWITCH CIRCUIT
B
TO PANEL CIRCUIT (CP501) (PAGE 20)
HP JACK
HP JACK
POWER SW
TUN UP SW
GND
HP JACK
HP JACK
CN501
CN502
CP502
HP601
S946 POWER ON/OFF
S950 FM MODE ON/OFF
S951 DPL/SFC BAND
S952 TUNING DOWN
S953 TUNING UP
R950 1K
R951 1.2K
R952 1.5K
R953 1.8K

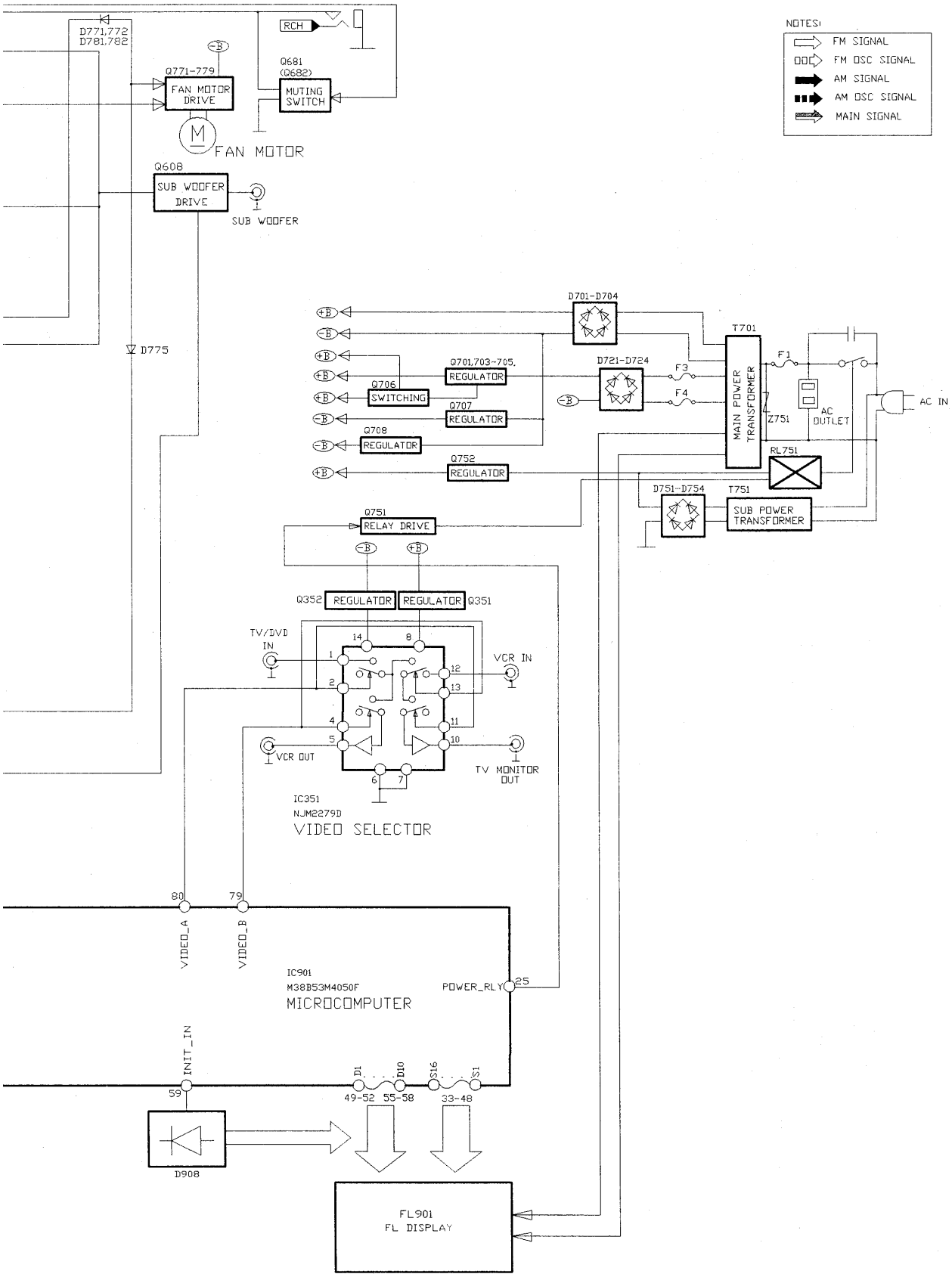

F POWER SUPPLY CIRCUIT
D751~D754 1SR35200TB
T751
RL751
D755 RVD1SS133TA
D756 MTZJ6R8B1TA
Q752
Q752 2SC3940AQSTA REGULATOR
Q751
Q751 RVTDTC143XST RELAY DRIVE
R754 1K
C751 M0.001
F1 125V 5A
W752
T701
F4 125V 8A
F3 125V 8A
W701
CN751
R751 3.3M
Z751
JK792 AC OUTLET (SWITCHED)
JK791 AC IN 120V 60Hz
W1
W2
W3
G TRANSFORMER CIRCUIT
L AC IN/OUT CIRCUIT

■ Block Diagram




IC451
AN6558F
PHONO
PHONO EQ AMP
CD
TAPE REC OUT
VCR1
PB
RD
REAR VCR2
TAPE PLAYBACK
S1
S2
S3
S4
S5
S6
S7
S8
LEVEL SHIFT
LATCH CCT
SHIFT REG
STB
CLK
DATA
IC401
TC9163AN
INPUT SELECTOR
IC402
M5218AP
BUFFER AMP
VR501-3,(4)
(VOLUME)
VR502
(BALANCE)
RCH
VR501-1
(VOLUME)
VR501-2
(VOLUME)
VOLUME MOTOR
IC501
BA6218
MOTOR DRIVER
DRIVE
DIRECTION SELECT
IC1001
LA2786L
PRO LOGIC DECODER
OSC
DIVIDER
BALANCE CONTROL
VR CONTROL
VTR
CONTROL
NOISE GENERATOR
L.P.F.
NOISE FILTER
MUTE
VREF
L.P.F.
RECT
LOG DIFF
DATA T.C. CONTROL
R CH
NOISE CH
C TRIM
C MODE
VCA
P.S
Q1001
REGULATOR
IC1002
LV1016L
DIGITAL DELAY
CONTROL LOGIC
SRAM
out A/D in
D/A
EJECT SW
20K L.P.F.
out NR in
out 7K L.P.F. in
S-TRIM
CF1051
IC901
M38B53M4050F
MICROCOMPUTER
SUR/DSD_CK
SUR/DSD_DT
SUR_CE
VOL_DWN
VOL_UP
FM_STEREO
SD
IF_DATA
TNR_CE
SEL/TNR_DT
SEL/TNR_CK
SEL_ST

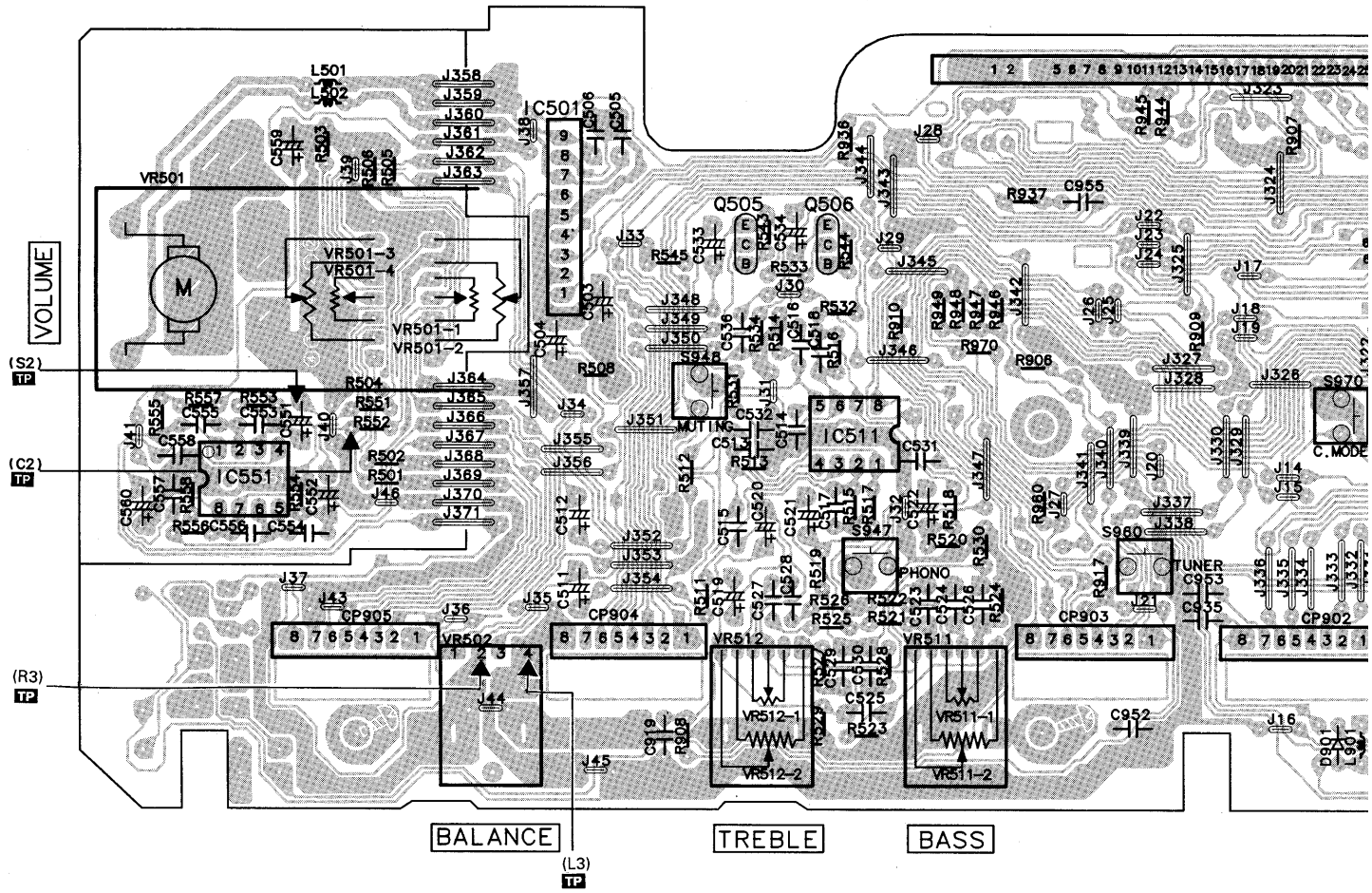

IC511
UPC4570C
TONE AMP
TREBLE
Q505(Q506)
MUTING SWITCH
PRE-AMP (CENTER)
IC551 (1/2)
UPC4570C
Q561
PRE-AMP (SURROUND)
IC551 (2/2)
UPC4570C
Q562
Q601(Q602)
Q603
Q604
RCH
IC601
RSN307M44-P
POWER AMP
Q731-Q733
REGULATOR
D601
RL601
LCH
FRONT SPEAKERS
Q605
RELAY DRIVER
CENTER SPEAKER
RL602
D602
Q734,735,737
REGULATOR
SURROUND SPEAKERS
Q606
D608
D921
Q902
REGULATOR
Q901
RESET CONTROL
CF901
(4MHz)
THERMAL
AF_MUTE
HOLD
RESET
XIN
XOUT
S/C_SP
SP_A
IC901
M38B53M4050F
MICROCOMPUTER
SFC3
SFC4
SFC3
SFC4
SFC5
REMOTE
VDD
VEE
GND
AVSS
KEY4
KEY1
D901
Z891
REMOTE SENSOR
KEY MATRIX


NOTES:
FM SIGNAL
FM OSC SIGNAL
AM SIGNAL
AM OSC SIGNAL
MAIN SIGNAL
D771,772
D781,782
Q771-779
FAN MOTOR DRIVE
FAN MOTOR
RCH
Q681
(Q682)
MUTING SWITCH
Q608
SUB WOOFER DRIVE
SUB WOOFER
D775
D701-D704
T701
MAIN POWER TRANSFORMER
Q701,703-705,
REGULATOR
Q706
SWITCHING
Q707
REGULATOR
Q708
REGULATOR
Q752
REGULATOR
D721-D724
F3
F4
F1
Z751
AC OUTLET
AC IN
RL751
D751-D754
T751
SUB POWER TRANSFORMER
Q751
RELAY DRIVE
Q352
REGULATOR
REGULATOR
Q351
TV/DVD IN
VCR IN
VCR OUT
TV MONITOR OUT
IC351
NJM2279D
VIDEO SELECTOR
VIDEO_A
VIDEO_B
IC901
M38B53M4050F
MICROCOMPUTER
POWER_RLY
INIT_IN
D908
FL901
FL DISPLAY

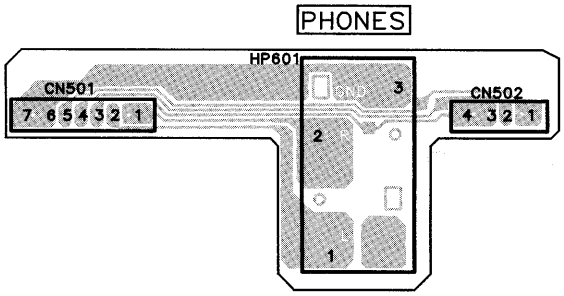
■ Printed Circuit Board

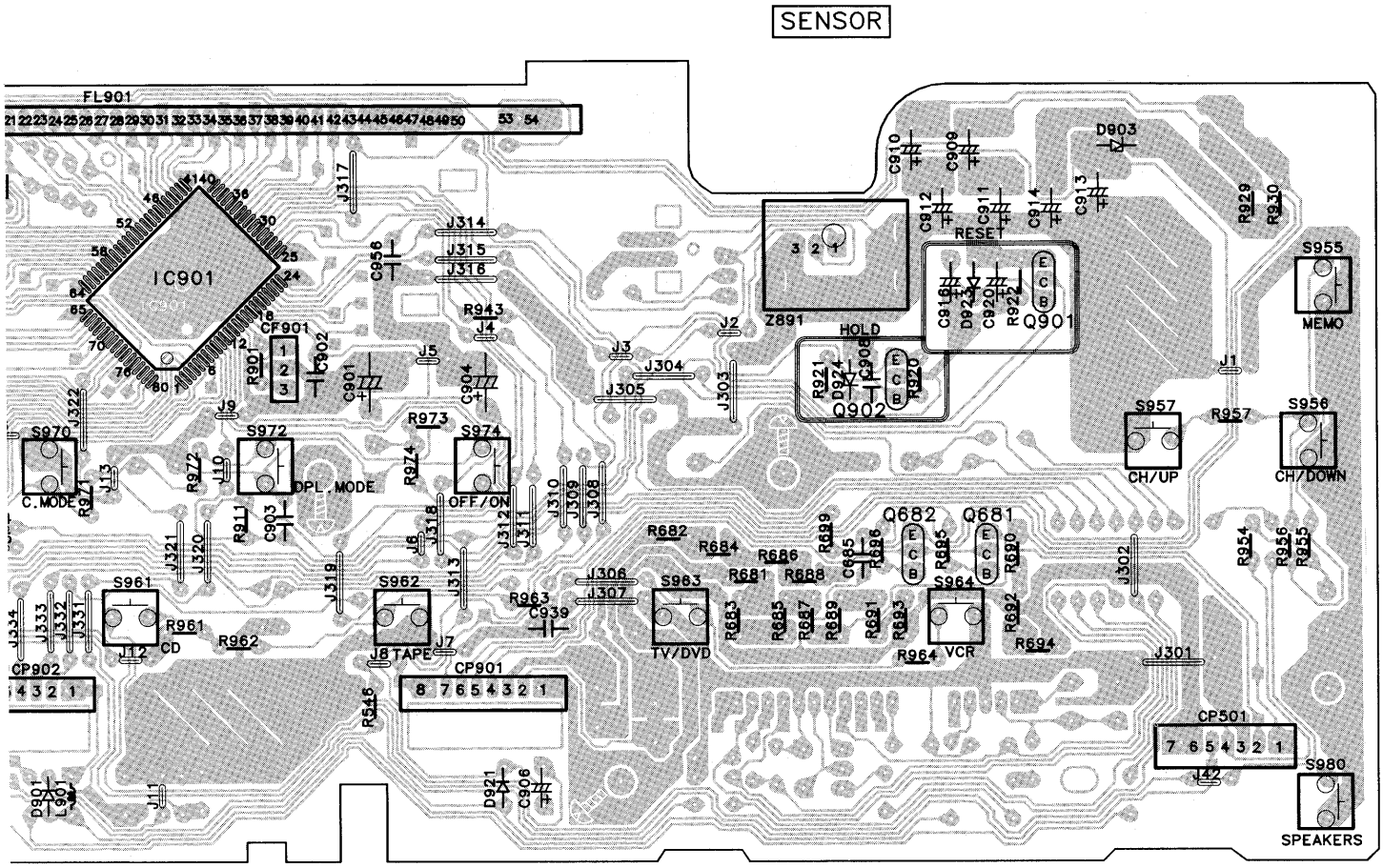
C VOLUME P.C.B. (REP2445B-S)

B PANEL P.C.B. (REP2445B-S)

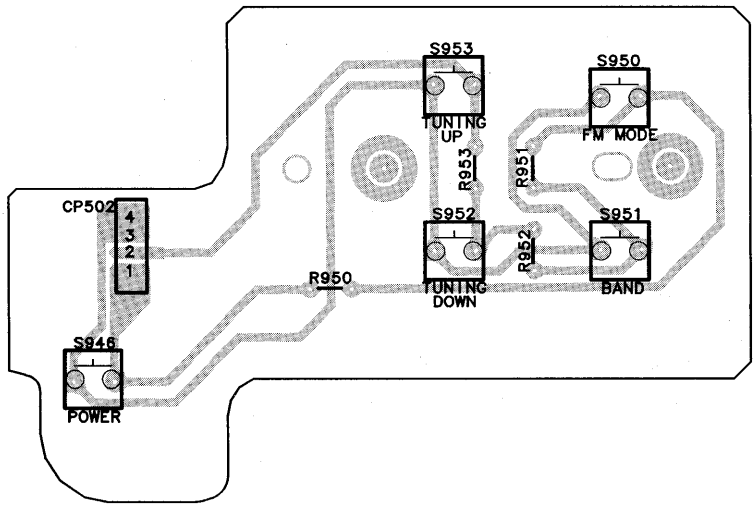


D HEADPHONE JACK P.C.B. (REP2445B-S)

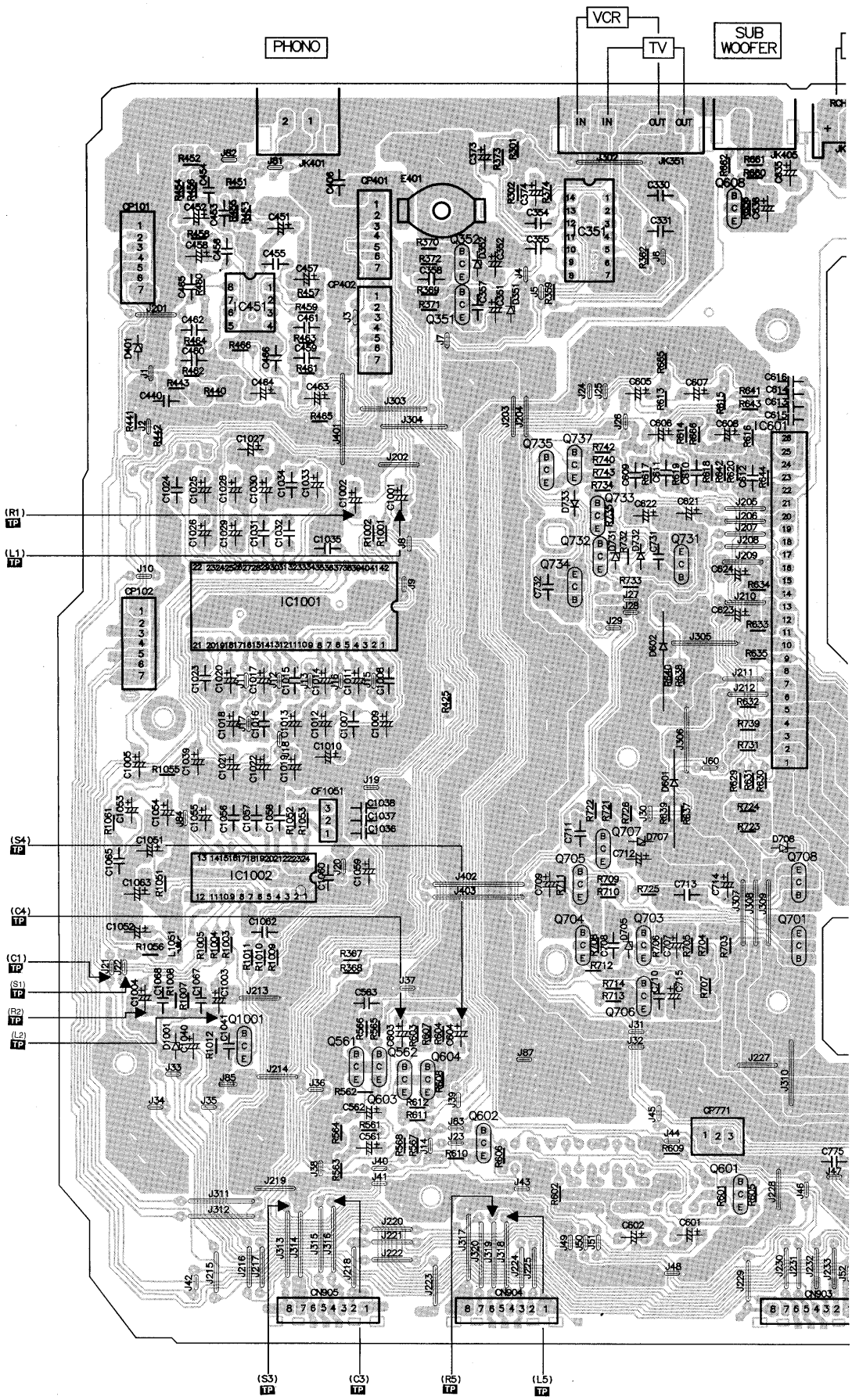


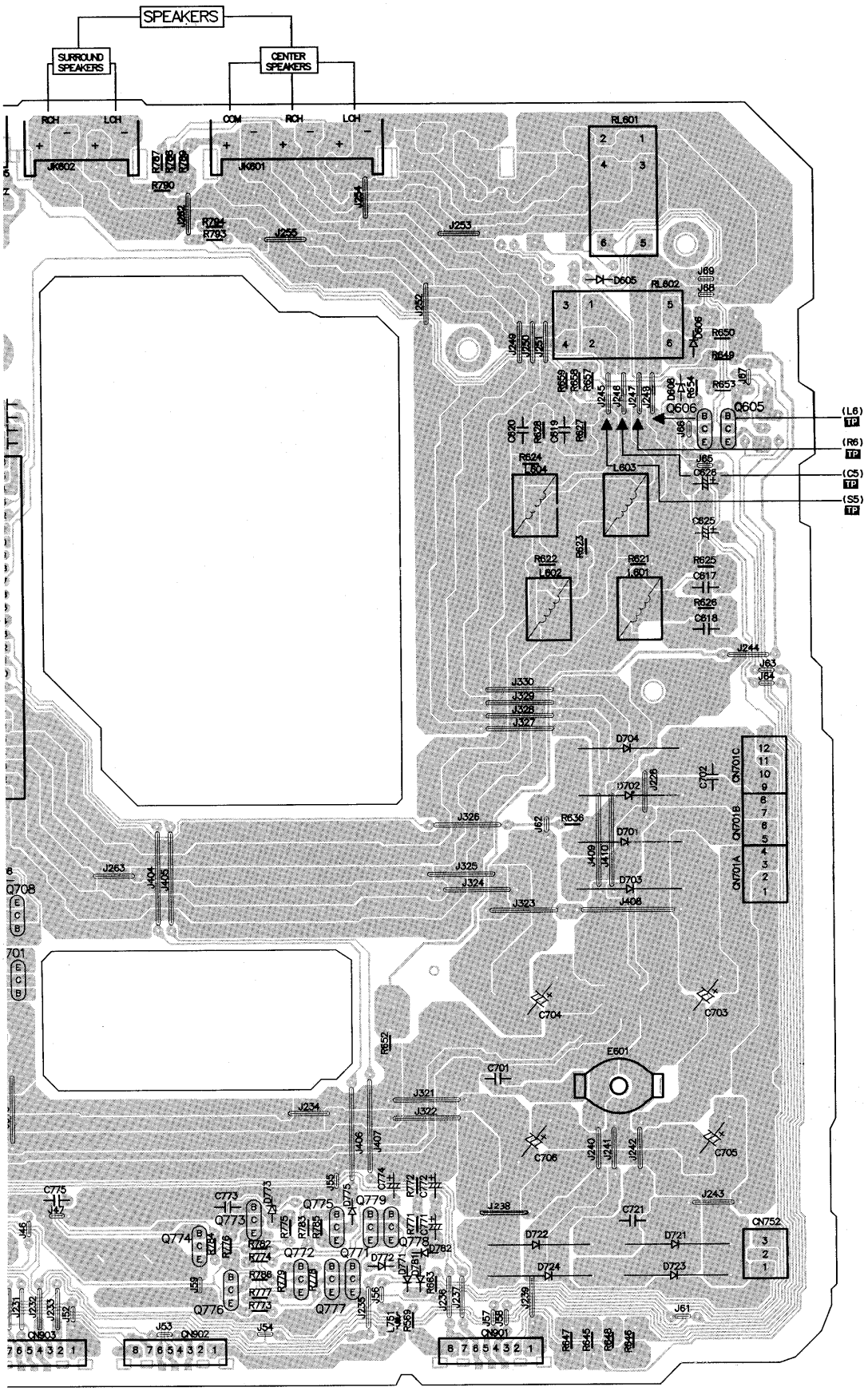


H POWER SWITCH P.C.B. (REP2445B-S)



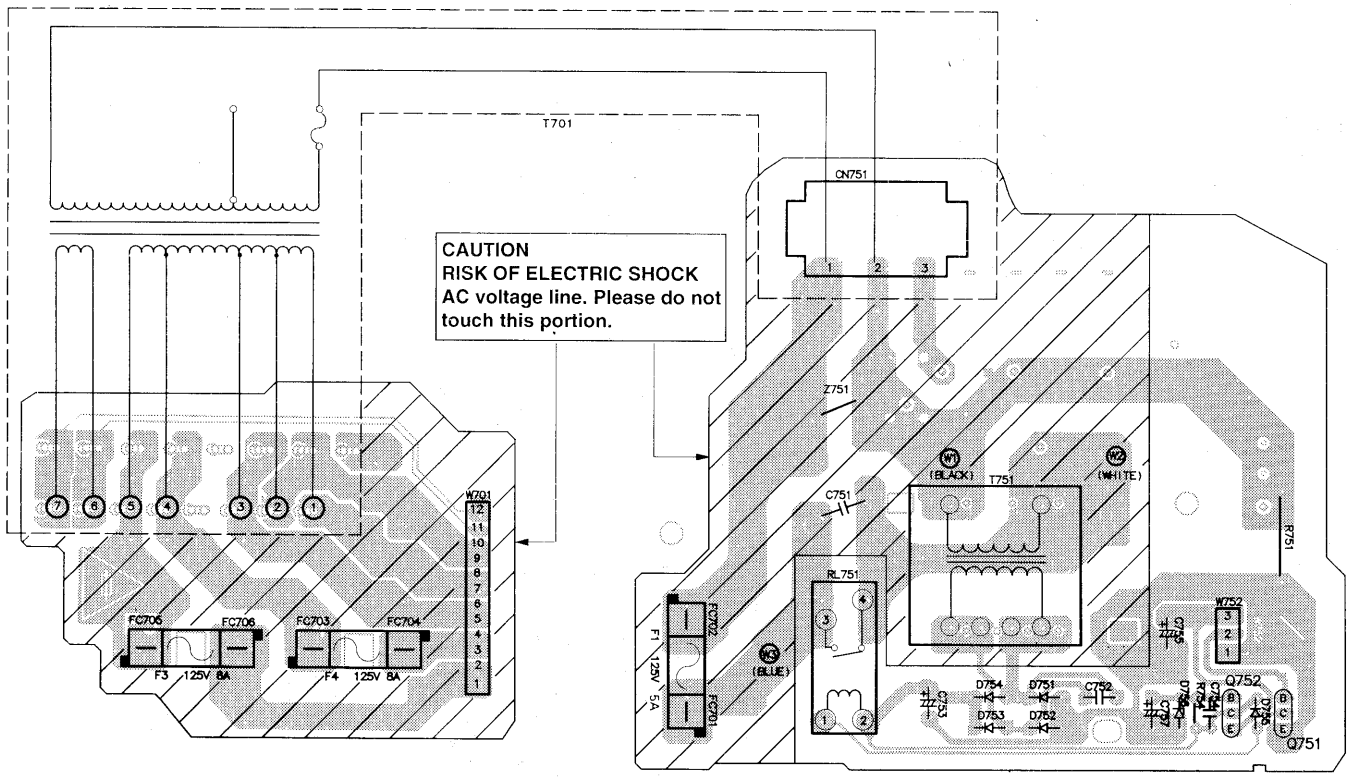
E MAIN P.C.B. (REP2444B-M)



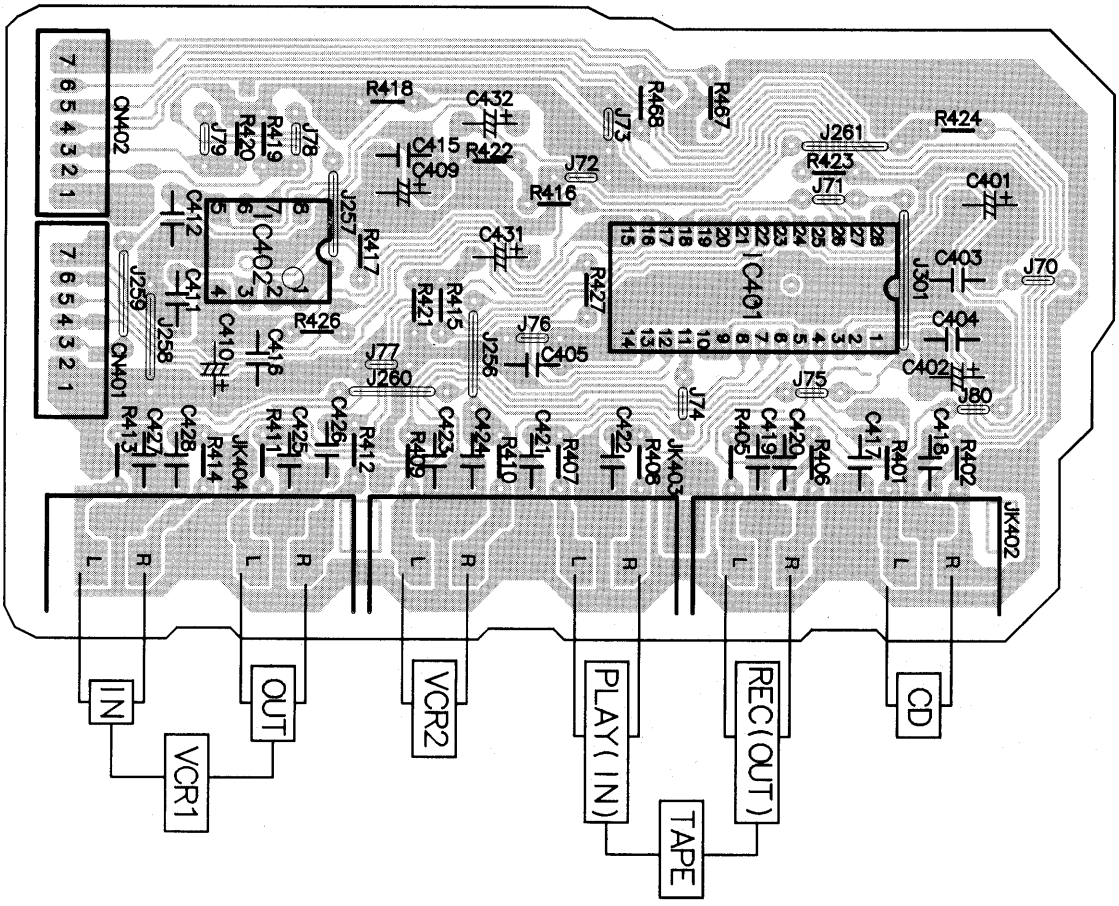

SPEAKERS
SURROUND SPEAKERS
CENTER SPEAKERS
RCH
LCH
COM
RCH
LCH
JK602
JK601
RL601
RL602
D605
D606
Q605
Q606
(L6) TP
(R6) TP
(C5) TP
(S5) TP
L603
L604
L602
L601
E601
C704
C703
C706
C705
C701
QN701C
QN701B
QN701A
QN752
QN803
QN802
QN801
Q708
Q701
Q774
Q773
Q775
Q779
Q778
Q772
Q771
Q776
Q777

G TRANSFORMER P.C.B. (REP2446F-P)

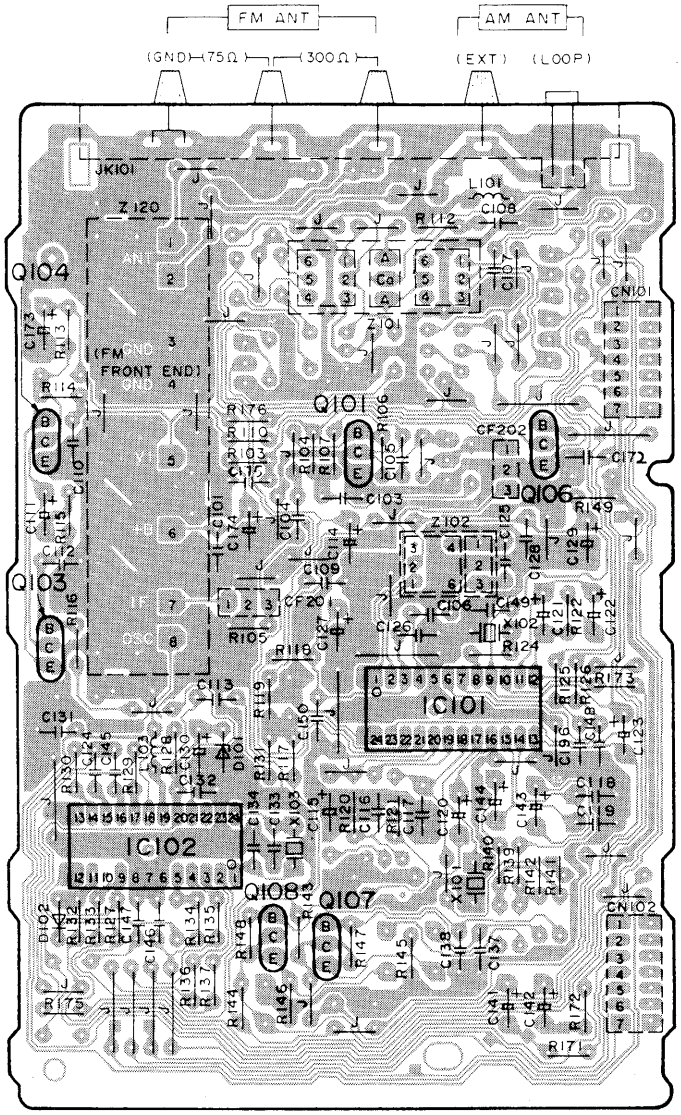
F POWER SUPPLY P.C.B. (REP2446F-P)



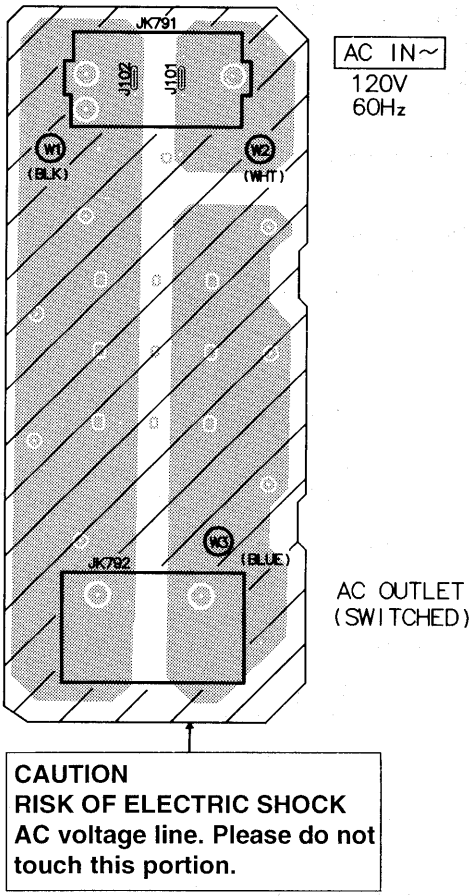
I IN/OUT TERMINAL P.C.B. (REP2444B-M)



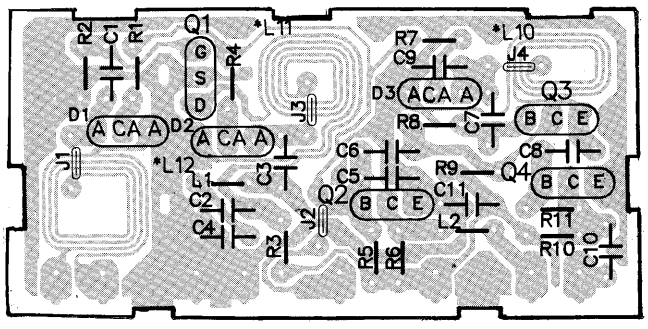
A TUNER P.C.B. (REP2254A-T)



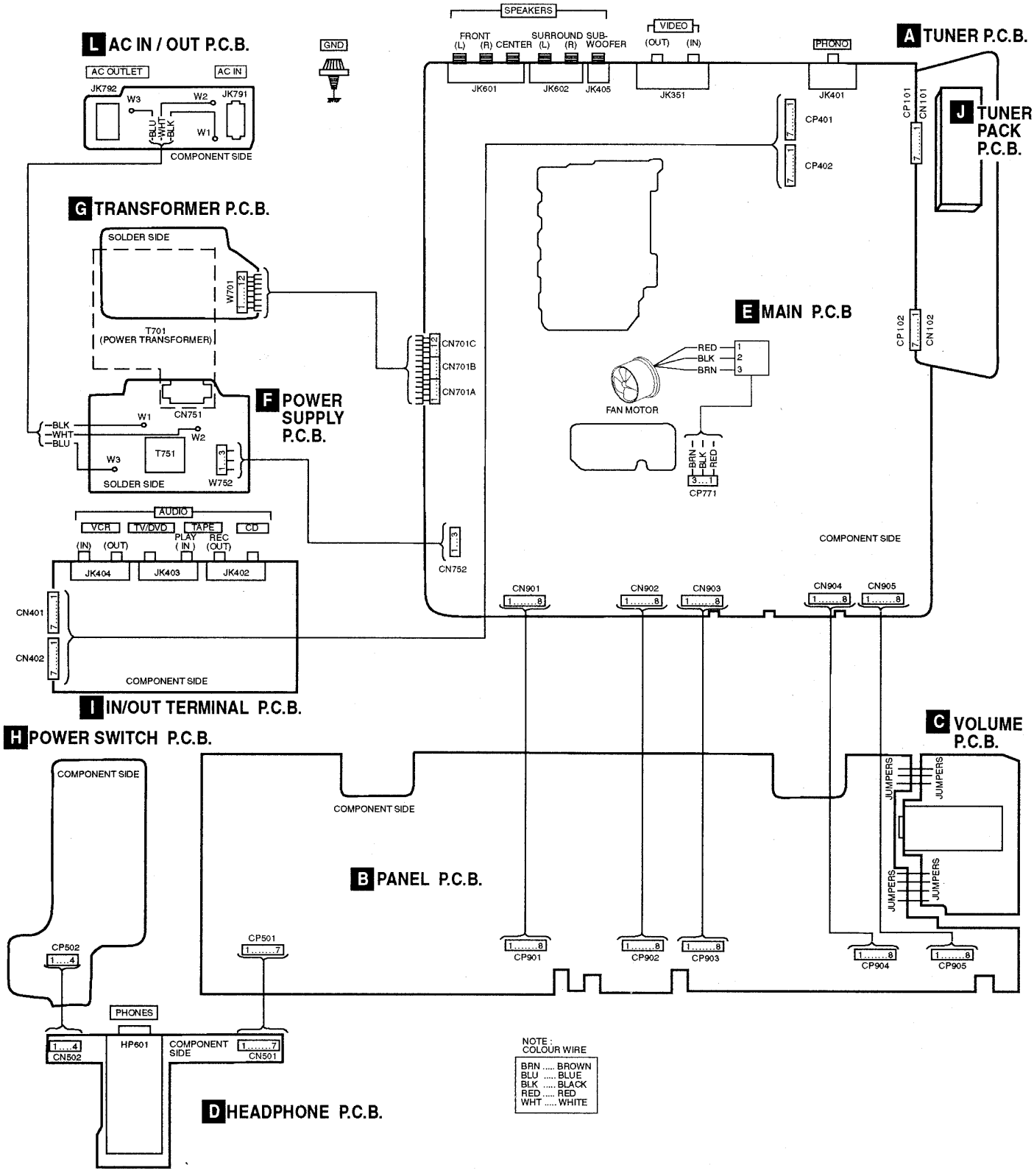
L AC IN / OUT P.C.B. (REP2446F-P)



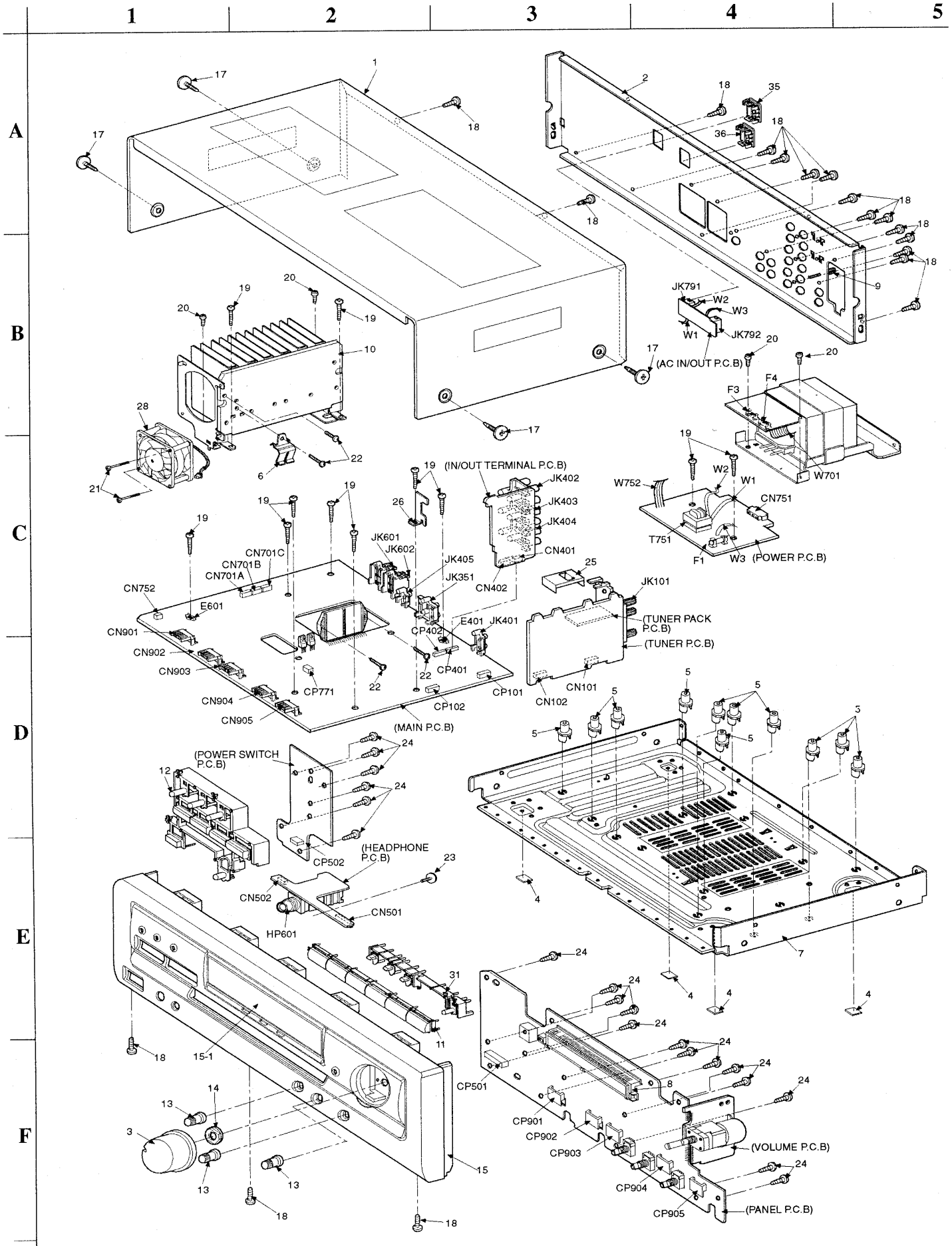
J TUNER PACK P.C.B. (REP1999B)



■ Wiring Connection Diagram



■ 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**.

Ref No.	Part No.	Part Name & Description	Remarks
		CABINET AND CHASSIS	
1	RKM0260D-K	TOP CABINET	[M]
2	RGR0251A-C	REAR PANEL	[M]
3	RGW0243B-K	VOLUME KNOB	[M]
4	SKL293	LEG CUSHION	[M]
5	RKQ0089	PCB HOLDER	[M]
6	RMC0158-S	TRANSISTOR HOLDER	[M]
7	RMK0350	BOTTOM CHASSIS	[M]
8	RMN0372	FL HOLDER	[M]
9	SNE2123	EARTH TERMINAL	[M]
10	RXX0186	HEAT SINK UNIT	[M]
11	RGU1493A-K	SELECTOR BUTTON	[M]
12	RGU1350-K	MODE BUTTON	[M]
13	RGW0244-K1	BASS TREBLE KNOB	[M]
14	RHN90001	M9 NUT	[M]
15	RFKGSAG67PPK	FRONT PANEL ASS'Y	[M]
15-1	RKW0436C-Q	FL WINDOW	[M]
17	SNE2129-1	SCREW (CABINET)	[M]
18	XTBS3+8JFZ1	SCREW	[M]
19	XTB3+20JFZ	SCREW	[M]
20	XTB3+8FFZ	SCREW	[M]
21	XTB3+30J	SCREW	[M]
22	XTW3+15T	SCREW	[M]
23	RHD26016	SCREW	[M]
24	XTBS26+10J	SCREW (FRONT)	[M]
25	RSC0027-1	SHIELD CASE	[M]
26	RMQ0709	TUNER PCB BRACKET	[M]
28	REM0069	FAN UNIT	[M]
31	RGU1352A-K	DOLBY BUTTON	[M]
35	SJS9234A	AC INLET COVER	[M]
36	SJS9233A	AC OUTLET COVER	[M]
		INTEGRATED CIRCUITS	
IC101	LA1832A	IC, IF/MPX	[M]
IC102	LC7218	IC, PLL	[M]
IC351	NJM2279D	IC, VIDEO SELECTOR SW	[M]
IC401	TC9163AN	IC, SELECTOR	[M]
IC402	M5218AP	IC, BUFFER AMP	[M]
IC451	AN6558F	IC, OP AMP	[M]
IC501	BA6218	IC, MOTOR DRIVER	[M]
IC511	UPC4570C	IC, TONE CONTROL	[M]
IC551	UPC4570C	IC, TONE CONTROL	[M]
IC601	RSN307M44-P	IC, HIC	[M]
IC901	M38B53M4050F	IC, MICROCOMPUTER	[M]
IC1001	LA2786L	IC, DPL	[M]
IC1002	LV1016L	IC, SURR DECODER	[M]
		TRANSISTORS	
Q1	2SK544F-AC	TRANSISTOR	[M]
Q2	2SC2786MTA	TRANSISTOR	[M]
Q3	2SC2787FL1TA	TRANSISTOR	[M]
Q4	2SC2787FL1TA	TRANSISTOR	[M]
Q101	2SC2787LTA	TRANSISTOR	[M]
Q103	2SC2785FETA	TRANSISTOR	[M]
Q104	2SC2785FETA	TRANSISTOR	[M]
Q106	RVTDTA143XST	TRANSISTOR	[M]
Q107	2SC3311ARTA	TRANSISTOR	[M]
Q108	2SC3311ARTA	TRANSISTOR	[M]
Q351	2SD592AQRSTA	TRANSISTOR	[M]⚠
Q352	2SB621AQSTA	TRANSISTOR	[M]⚠
Q505	2SD1915FTA	TRANSISTOR	[M]
Q506	2SD1915FTA	TRANSISTOR	[M]
Q561	2SD1915FTA	TRANSISTOR	[M]
Q562	2SD1915FTA	TRANSISTOR	[M]
Q601	2SC1740SSTA	TRANSISTOR	[M]
Q602	2SC1740SSTA	TRANSISTOR	[M]
Q603	2SC1740SSTA	TRANSISTOR	[M]
Q604	2SC1740SSTA	TRANSISTOR	[M]
Q605	RVTDTA113ZST	TRANSISTOR	[M]
Q606	RVTDTA113ZST	TRANSISTOR	[M]
Q608	2SD1915FTA	TRANSISTOR	[M]
Q681	2SD1915FTA	TRANSISTOR	[M]
Q682	2SD1915FTA	TRANSISTOR	[M]
Q701	2SD2374PQAU	TRANSISTOR	[M]⚠
Q703	2SC1740SSTA	TRANSISTOR	[M]⚠
Q704	2SC1740SSTA	TRANSISTOR	[M]⚠
Q705	2SC1740SSTA	TRANSISTOR	[M]⚠
Q706	2SC3940AQSTA	TRANSISTOR	[M]
Q707	2SB621AQSTA	TRANSISTOR	[M]⚠
Q708	2SB1548PQAU	TRANSISTOR	[M]⚠
Q731	2SB1417PQTA	TRANSISTOR	[M]⚠
Q732	2SC1740SSTA	TRANSISTOR	[M]⚠
Q733	2SC1740SSTA	TRANSISTOR	[M]⚠
Q734	2SD2137PQTA	TRANSISTOR	[M]⚠
Q735	2SA992EFTA	TRANSISTOR	[M]⚠
Q737	2SA992EFTA	TRANSISTOR	[M]⚠
Q751	RVTDTC143XST	TRANSISTOR	[M]
Q752	2SC3940AQSTA	TRANSISTOR	[M]⚠
Q771	2SA933SSTA	TRANSISTOR	[M]
Q772	2SC1740SSTA	TRANSISTOR	[M]
Q773	2SB621AQSTA	TRANSISTOR	[M]
Q774	RVTDTA114EST	TRANSISTOR	[M]
Q775	2SA933SSTA	TRANSISTOR	[M]
Q776	2SC1740SSTA	TRANSISTOR	[M]
Q777	2SA933SSTA	TRANSISTOR	[M]
Q778	RVTDTA114TST	TRANSISTOR	[M]
Q779	RVTDTA114TST	TRANSISTOR	[M]
Q901	RVTDTC114YST	TRANSISTOR	[M]
Q902	2SA933SSTA	TRANSISTOR	[M]⚠
Q1001	2SC3940AQSTA	TRANSISTOR	[M]⚠
		DIODES	
D1	SVC211SPA-AL	DIODE	[M]
D2	SVC211SPA-AL	DIODE	[M]
D3	SVC211SPA-AL	DIODE	[M]
D101	MTZJ5R1BTA	DIODE	[M]
D102	RVD1SS133TA	DIODE	[M]
D351	MTZJ5R6BTA	DIODE	[M]
D352	MTZJ5R6BTA	DIODE	[M]
D401	MTZJ7R5CTA	DIODE	[M]
D601	SB360L6508	DIODE	[M]
D602	SB360L6508	DIODE	[M]
D605	RVD1SS133TA	DIODE	[M]
D606	RVD1SS133TA	DIODE	[M]
D608	MTZJ6R2BTA	DIODE	[M]
D701	1N5402BM21	DIODE	[M]⚠
D702	1N5402BM21	DIODE	[M]⚠
D703	1N5402BM21	DIODE	[M]⚠
D704	1N5402BM21	DIODE	[M]⚠
D705	MTZJ6R2BTA	DIODE	[M]⚠
D707	MTZJ27DTA	DIODE	[M]⚠
D708	MTZJ15CTA	DIODE	[M]⚠

Ref No.	Part No.	Part Name & Description	Remarks
D721	1N5402BM21	DIODE	[M]⚠
D722	1N5402BM21	DIODE	[M]⚠
D723	1N5402BM21	DIODE	[M]⚠
D724	1N5402BM21	DIODE	[M]⚠
D731	MTZJ24DTA	DIODE	[M]
D732	RVD1SS133TA	DIODE	[M]
D733	RVD1SS133TA	DIODE	[M]
D751	1SR35200TB	DIODE	[M]⚠
D752	1SR35200TB	DIODE	[M]⚠
D753	1SR35200TB	DIODE	[M]⚠
D754	1SR35200TB	DIODE	[M]⚠
D755	RVD1SS133TA	DIODE	[M]⚠
D756	MTZJ6R8BTA	DIODE	[M]⚠
D771	RVD1SS133TA	DIODE	[M]
D772	RVD1SS133TA	DIODE	[M]
D773	MTZJ12CTA	DIODE	[M]
D775	RVD1SS133TA	DIODE	[M]
D781	RVD1SS133TA	DIODE	[M]
D782	RVD1SS133TA	DIODE	[M]
D901	1SS291TA	DIODE	[M]
D903	MTZJ4R7BTA	DIODE	[M]
D908	MA167ATA	DIODE	[M]
D921	RVD1SS133TA	DIODE	[M]
D923	RVD1SS133TA	DIODE	[M]
D924	MTZJ3R9ATA	DIODE	[M]
D1001	MTZJ10CTA	DIODE	[M]⚠
		VARIABLE RESISTORS	
VR501	EUWMRH026B15	VR, VOLUME	[M]
VR502	EVJ02QF01G15	VR, BALANCE	[M]
VR511	EVJYA1F01C15	VR, BASS	[M]
VR512	EVJYA1F01C15	VR, TREBLE	[M]
		SWITCHES	
S946	EVQ21405R	SW, POWER	[M]
S947	EVQ21405R	SW, PHONE	[M]
S948	EVQ21405R	SW, MUTING	[M]
S950	EVQ21405R	SW, FM MODE	[M]
S951	EVQ21405R	SW, BAND	[M]
S952	EVQ21405R	SW, TUNING UP	[M]
S953	EVQ21405R	SW, TUNING DOWN	[M]
S955	EVQ21405R	SW, MEMO	[M]
S956	EVQ21405R	SW, PRESET DOWM	[M]
S957	EVQ21405R	SW, PRESET UP	[M]
S960	EVQ21405R	SW, TUNER	[M]
S961	EVQ21405R	SW, CD	[M]
S962	EVQ21405R	SW, TAPE	[M]

Ref No.	Part No.	Part Name & Description	Remarks
S963	EVQ21405R	SW, TV/DVD	[M]
S964	EVQ21405R	SW, VCR1	[M]
S970	EVQ21405R	SW, CENTER MODE	[M]
S972	EVQ21405R	SW, DISPLAY MODE	[M]
S974	EVQ21405R	SW, OFF/ON	[M]
S980	EVQ21405R	SW, SPEAKER	[M]
		CONNECTORS	
CN101	RJU057W007	7P CONNECTOR	[M]
CN102	RJU057W007	7P CONNECTOR	[M]
CN401	RJU100W07	7P CONNECTOR	[M]
CN402	RJU100W07	7P CONNECTOR	[M]
CN501	RJU100W07	7P CONNECTOR	[M]
CN502	RJU100W04	4P CONNECTOR	[M]
CN701A	RJS1A6604T1	4P TAPING CONNECTOR	[M]
CN701B	RJS1A6604T1	4P TAPING CONNECTOR	[M]
CN701C	RJS1A6604T1	4P TAPING CONNECTOR	[M]
CN751	SJS305-1	3P CONNECTOR	[M]
CN752	RJS1A6603T1	3P TAPING CONNECTOR	[M]
CN901	RJU003K008M1	BOAD IN CONNECTOR	[M]
CN902	RJU003K008M1	BOAD IN CONNECTOR	[M]
CN903	RJU003K008M1	BOAD IN CONNECTOR	[M]
CN904	RJU003K008M1	BOAD IN CONNECTOR	[M]
CN905	RJU003K008M1	BOAD IN CONNECTOR	[M]
CP101	RJT057W007-1	7P CONNECTOR	[M]
CP102	RJT057W007-1	7P CONNECTOR	[M]
CP401	RJT100W07	7P CONNECTOR	[M]
CP402	RJT100W07	7P CONNECTOR	[M]
CP501	RJT100W07	7P CONNECTOR	[M]
CP502	RJT100W04	4P CONNECTOR	[M]
CP771	RJP3G4YA	CONNECTOR	[M]
CP901	RJT003K008-1	8P CONNECTOR	[M]
CP902	RJT003K008-1	8P CONNECTOR	[M]
CP903	RJT003K008-1	8P CONNECTOR	[M]
CP904	RJT003K008-1	8P CONNECTOR	[M]
CP905	RJT003K008-1	8P CONNECTOR	[M]
		COILS & TRANSFORMERS	
L1	RLQZP1R2JT-Y	RF CHOKE COIL	[M]
L2	RLQZPR47KT-Y	RF CHOKE COIL	[M]
L101	ELESN1R5MA	CHOKE COIL	[M]
L103	ELEXTR47MA9	CHOKE COIL	[M]
L501	RLQZP1R0KT-Y	AXIAL COIL	[M]
L502	RLQZP1R0KT-Y	AXIAL COIL	[M]
L601	RLQYR73MW-E	CHOKE COIL	[M]
L602	RLQYR73MW-E	CHOKE COIL	[M]
L603	RLQYR73MW-E	CHOKE COIL	[M]

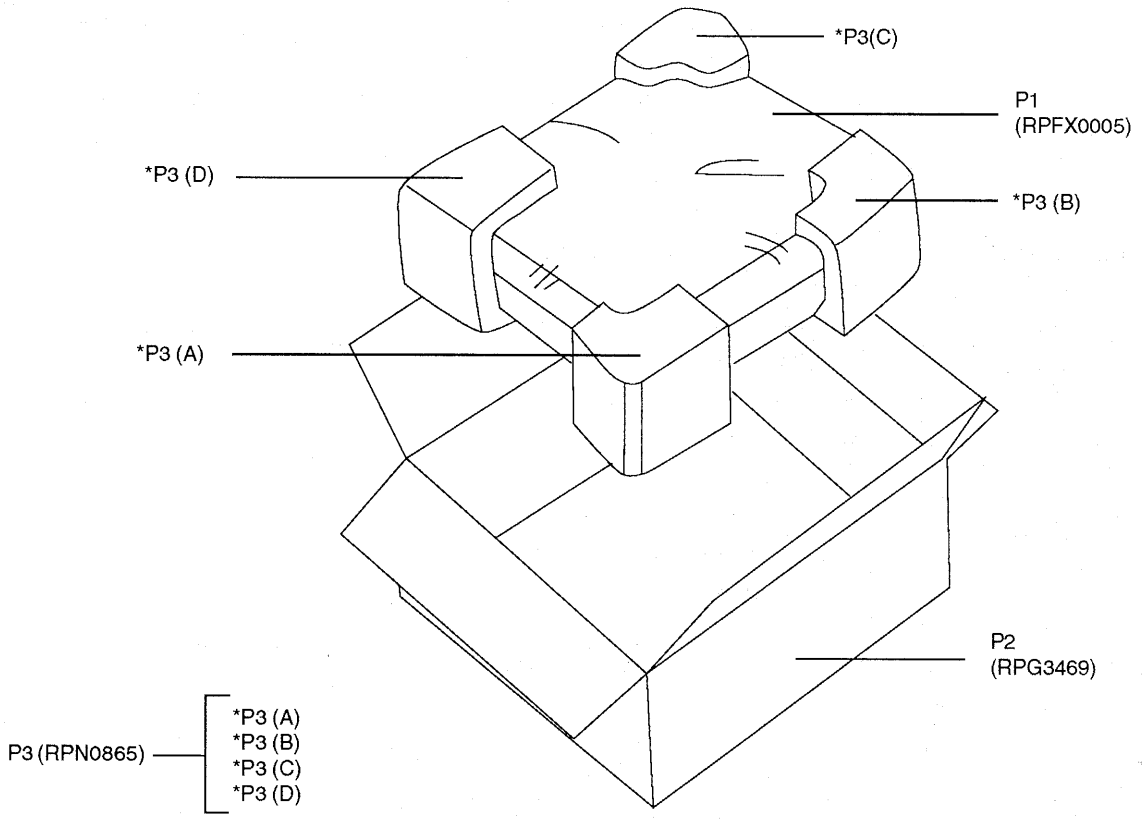
Ref No.	Part No.	Part Name & Description	Remarks
L604	RLQYR73MW-E	CHOKE COIL	[M]
L751	ELESN101KA	CHOKE COIL	[M]
L901	RLQB101KTA-Y	CHOKE COIL	[M]
L1051	ELESN101KA	CHOKE COIL	[M]
T701	RTP2N5C008	POWER TRANSFORMER	[M]⚠
T751	RTP1H5C001-V	POWER TRANSFORMER	[M]⚠
		COMPONENT COMBINATION	
Z101	RLA2Z002M-T	AM ANT. COIL	[M]
Z102	RLI2Z006M-T	AM IFT	[M]
Z120	RAL0029	TUNER PACK	[M]
Z751	ERZV10V511CS	ZNR	[M]⚠
Z891	RCDSPS4242N	REMOTE SENSOR	[M]
		CERAMIC FILTERS	
CF201	RLFFETMGD01L	CERAMIC FILTER	[M]
CF202	RLFFETMGD01L	CERAMIC FILTER	[M]
CF901	RVBCST4R00MT	CERAMIC OSCILLATOR	[M]
CF1051	EF0EC8004T4	CERAMIC OSCILLATOR	[M]
		OSCILLATORS	
X101	RSXZ456KM07M	CERAMIC OSCILLATOR	[M]
X102	RLFDGTD011	FM REZONATOR	[M]
X103	SVQ49U722T-S	CRYSTAL 7.2MHZ	[M]
		DISPLAY TUBE	
FL901	RSL0233-F	FL DISPLAY	[M]
		EARTH TERMINAL	
E401	SNE1004-2	EARTH TERMINAL	[M]
E601	SNE1004-2	EARTH TERMINAL	[M]
		RELAYS	
RL601	RSY0013M-0	RELAY	[M]
RL602	RSY0013M-0	RELAY	[M]
RL751	RSY0019M-0	12V TV-5 RELAY	[M] ⚠
		FUSES	
F1	XBA1C50NBAL	FUSE	[M]⚠
F3	XBA1C80NBAL	FUSE	[M]⚠
F4	XBA1C80NBAL	FUSE	[M]⚠
		FUSE CLIPS	

Ref No.	Part No.	Part Name & Description	Remarks
FC701	EYF52BC	FUSE HOLDER	[M]
FC702	EYF52BC	FUSE HOLDER	[M]
FC703	EYF52BC	FUSE HOLDER	[M]
FC704	EYF52BC	FUSE HOLDER	[M]
FC705	EYF52BC	FUSE HOLDER	[M]
FC706	EYF52BC	FUSE HOLDER	[M]
		JACKS	
JK101	RJH4405	JK, ANT TERMINAL	[M]
JK351	SJF3069-3N	JK, RCA PIN	[M]
JK401	SJF3068-7N	JK, RCA TERMINAL	[M]
JK402	SJF3069N	JK, LINE IN	[M]

Ref No.	Part No.	Part Name & Description	Remarks
JK403	SJF3069N	JK, LINE IN	[M]
JK404	SJF3069N	JK, LINE IN	[M]
JK405	SJFD7	JK, FM MULTI OUT	[M]
JK601	RJH5601	JK, SP TERMINAL	[M]
JK602	RJR0054	JK, SP TERMINAL	[M]
JK791	SJS9234B	JK, AC INLET	[M]⚠
JK792	SJS9233B	JK, AC OUTLET	[M]⚠
HP601	RJJ63TS01	JK, HEADPHONES	[M]
		WIRES	
W1	REE0769	WIRE UNIT	[M]
W2	REE0770	WIRE UNIT	[M]
W3	REE0771	WIRE UNIT	[M]

Ref No.	Part No.	Part Name & Description	Remarks
		PACKING MATERIALS	
P1	RPFX0005	MIRAMAT BAG	[M]
P2	RPG3469	GIFT BOX	[M]
P3	RPN0865	POLYFOAM	[M]

■ Packaging



■ Resistors & Capacitors

Notes : • Important safety notice:
Components identified by ⚠ m ark 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 (μF) 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**.

Ref No.	Part No.	Values & Remarks
	RESISTORS	
R1	ERDS2TJ104T	100K 1/4W [M]
R2	ERDS2TJ104T	100K 1/4W [M]
R3	ERDS2TJ221T	220 1/4W [M]
R4	ERDS2TJ104T	100K 1/4W [M]
R5	ERDS2TJ564T	560K 1/4W [M]
R6	ERDS2TJ391T	390 1/4W [M]
R7	ERDS2TJ272T	2.7K 1/4W [M]
R8	ERDS2TJ684T	680K 1/4W [M]
R9	ERDS2TJ391T	390 1/4W [M]
R10	ERDS2TJ391T	390 1/4W [M]
R11	ERDS2TJ684T	680K 1/4W [M]
R103	ERDS2TJ151T	150 1/4W [M]
R104	ERDS2TJ102T	1K 1/4W [M]
R105	ERDS2TJ471T	470 1/4W [M]
R106	ERDS2TJ224T	220K 1/4W [M]
R107	ERDS2TJ471T	470 1/4W [M]
R110	ERDS2TJ102T	1K 1/4W [M]
R112	ERDS2TJ104T	100K 1/4W [M]
R113	ERDS2TJ103T	10K 1/4W [M]
R114	ERDS2TJ562T	5.6K 1/4W [M]
R115	ERDS2TJ561T	560 1/4W [M]
R116	ERDS2TJ102T	1K 1/4W [M]
R117	ERDS2TJ104T	100K 1/4W [M]
R118	ERDS2TJ562T	5.6K 1/4W [M]
R119	ERDS2TJ822T	8.2K 1/4W [M]
R120	ERDS2TJ473T	47K 1/4W [M]
R121	ERDS2TJ332T	3.3K 1/4W [M]
R122	ERDS2TJ272T	2.7K 1/4W [M]
R124	ERDS2TJ271T	270 1/4W [M]
R125	ERDS2TJ472T	4.7K 1/4W [M]
R126	ERDS2TJ472T	4.7K 1/4W [M]
R127	ERDS2TJ103T	10K 1/4W [M]
R128	ERDS2TJ820T	82 1/4W [M]
R129	ERDS2TJ473T	47K 1/4W [M]
R130	ERDS2TJ102T	1K 1/4W [M]
R131	ERDS2TJ102T	1K 1/4W [M]
R132	ERDS2TJ103T	10K 1/4W [M]
R133	ERDS2TJ102T	1K 1/4W [M]
R134	ERDS2TJ102T	1K 1/4W [M]
R135	ERDS2TJ102T	1K 1/4W [M]
R136	ERDS2TJ102T	1K 1/4W [M]
R137	ERDS2TJ102T	1K 1/4W [M]
R139	ERDS2TJ272T	2.7K 1/4W [M]
R140	ERDS2TJ272T	2.7K 1/4W [M]
R141	ERDS2TJ103T	10K 1/4W [M]
R142	ERDS2TJ103T	10K 1/4W [M]
R143	ERDS2TJ222T	2.2K 1/4W [M]
R144	ERDS2TJ222T	2.2K 1/4W [M]
R145	ERDS2TJ102T	1K 1/4W [M]
R146	ERDS2TJ102T	1K 1/4W [M]
R147	ERDS2TJ474T	470K 1/4W [M]
R148	ERDS2TJ474T	470K 1/4W [M]
R149	ERDS2TJ680T	68 1/4W [M]
R171	ERDS2TJ102T	1K 1/4W [M]
R172	ERDS2TJ102T	1K 1/4W [M]
R173	ERDS2TJ471T	470 1/4W [M]
R175	ERDS2TJ102T	1K 1/4W [M]
R176	ERDS2TJ391T	390 1/4W [M]
R301	ERDS2TJ750T	75 1/4W [M]
R302	ERDS2TJ750T	75 1/4W [M]
R359	ERDS2TJ750T	75 1/4W [M]
R362	ERDS2TJ750T	75 1/4W [M]
R367	ERDS2TJ102T	1K 1/4W [M]
R368	ERDS2TJ102T	1K 1/4W [M]
R369	ERDS2TJ182T	1.8K 1/4W [M]
R370	ERDS2TJ182T	1.8K 1/4W [M]
R371	ERD2FCVG220T	22 1/4W [M]
R372	ERD2FCVG220T	22 1/4W [M]
R373	ERDS2TJ103T	10K 1/4W [M]
R374	ERDS2TJ103T	10K 1/4W [M]
R401	ERDS2TJ102T	1K 1/4W [M]
R402	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	ERDS2TJ104T	100K 1/4W [M]
R422	ERDS2TJ104T	100K 1/4W [M]
R423	ERDS2TJ102T	1K 1/4W [M]
R424	ERDS2TJ102T	1K 1/4W [M]
R425	ERDS2TJ103T	10K 1/4W [M]
R426	ERDS2TJ103T	10K 1/4W [M]
R427	ERDS2TJ103T	10K 1/4W [M]
R440	ERDS1FVJ820T	82 1/2W [M] ⚠
R441	ERDS2TJ473T	47K 1/4W [M]
R442	ERDS2TJ473T	47K 1/4W [M]
R443	ERDS2TJ330T	33 1/4W [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	ERDS2TJ102T	1K 1/4W [M]
R468	ERDS2TJ102T	1K 1/4W [M]
R501	ERDS2TJ222T	2.2K 1/4W [M]
R502	ERDS2TJ222T	2.2K 1/4W [M]
R503	ERDS2TJ103T	10K 1/4W [M]
R504	ERDS2TJ103T	10K 1/4W [M]
R505	ERDS2TJ103T	10K 1/4W [M]
R506	ERDS2TJ103T	10K 1/4W [M]
R508	ERDS1FVJ2R2T	2.2 1/2W[M] ⚠
R511	ERDS2TJ471T	470 1/4W [M]
R512	ERDS2TJ471T	470 1/4W [M]
R513	ERDS2TJ474T	470K 1/4W [M]
R514	ERDS2TJ474T	470K 1/4W [M]
R515	ERDS2TJ474T	470K 1/4W [M]
R516	ERDS2TJ474T	470K 1/4W [M]
R517	ERDS2TJ332T	3.3K 1/4W [M]
R518	ERDS2TJ332T	3.3K 1/4W [M]
R519	ERDS2TJ222T	2.2K 1/4W [M]
R520	ERDS2TJ222T	2.2K 1/4W [M]
R521	ERDS2TJ223T	22K 1/4W [M]
R522	ERDS2TJ223T	22K 1/4W [M]
R523	ERDS2TJ392T	3.9K 1/4W [M]
R524	ERDS2TJ392T	3.9K 1/4W [M]
R525	ERDS2TJ222T	2.2K 1/4W [M]
R526	ERDS2TJ222T	2.2K 1/4W [M]
R527	ERDS2TJ122T	1.2K 1/4W [M]
R528	ERDS2TJ122T	1.2K 1/4W [M]
R529	ERDS2TJ273T	27K 1/4W [M]
R530	ERDS2TJ273T	27K 1/4W [M]
R531	ERDS2TJ332T	3.3K 1/4W [M]
R532	ERDS2TJ332T	3.3K 1/4W [M]
R533	ERDS2TJ103T	10K 1/4W [M]
R534	ERDS2TJ103T	10K 1/4W [M]
R543	ERDS2TJ102T	1K 1/4W [M]
R544	ERDS2TJ102T	1K 1/4W [M]
R545	ERDS2TJ684T	680K 1/4W [M]
R546	ERDS2TJ103T	10K 1/4W [M]
R551	ERDS2TJ102T	1K 1/4W [M]
R552	ERDS2TJ102T	1K 1/4W [M]
R553	ERDS2TJ104T	100K 1/4W [M]
R554	ERDS2TJ104T	100K 1/4W [M]
R555	ERDS2TJ223T	22K 1/4W [M]
R556	ERDS2TJ223T	22K 1/4W [M]
R557	ERDS2TJ681T	680 1/4W [M]
R558	ERDS2TJ102T	1K 1/4W [M]
R561	ERDS2TJ332T	3.3K 1/4W [M]
R562	ERDS2TJ332T	3.3K 1/4W [M]

Ref No.	Part No.	Values & Remarks
R563	ERDS2TJ104T	100K 1/4W [M]
R564	ERDS2TJ104T	100K 1/4W [M]
R565	ERDS2TJ102T	1K 1/4W [M]
R566	ERDS2TJ102T	1K 1/4W [M]
R567	ERDS2TJ101T	100 1/4W [M]
R568	ERDS2TJ101T	100 1/4W [M]
R569	ERDS2TJ332T	3.3K 1/4W [M]
R601	ERDS2TJ102T	1K 1/4W [M]
R602	ERDS2TJ102T	1K 1/4W [M]
R603	ERDS2TJ102T	1K 1/4W [M]
R604	ERDS2TJ102T	1K 1/4W [M]
R605	ERDS2TJ392T	3.9K 1/4W [M]
R606	ERDS2TJ392T	3.9K 1/4W [M]
R607	ERDS2TJ223T	22K 1/4W [M]
R608	ERDS2TJ223T	22K 1/4W [M]
R609	ERDS2TJ222T	2.2K 1/4W [M]
R610	ERDS2TJ222T	2.2K 1/4W [M]
R611	ERDS2TJ222T	2.2K 1/4W [M]
R612	ERDS2TJ222T	2.2K 1/4W [M]
R613	ERDS2TJ182T	1.8K 1/4W [M]
R614	ERDS2TJ182T	1.8K 1/4W [M]
R615	ERDS2TJ182T	1.8K 1/4W [M]
R616	ERDS2TJ182T	1.8K 1/4W [M]
R617	ERDS2TJ563T	56K 1/4W [M]
R618	ERDS2TJ563T	56K 1/4W [M]
R619	ERDS2TJ563T	56K 1/4W [M]
R620	ERDS2TJ563T	56K 1/4W [M]
R621	ERDS2TJ470T	47 1/4W [M]
R622	ERDS2TJ470T	47 1/4W [M]
R623	ERDS2TJ470T	47 1/4W [M]
R624	ERDS2TJ470T	47 1/4W [M]
R625	ERDS1FVJ100T	10 1/2W [M] ⚠
R626	ERDS1FVJ100T	10 1/2W [M] ⚠
R627	ERDS1FVJ100T	10 1/2W [M] ⚠
R628	ERDS1FVJ100T	10 1/2W [M] ⚠
R629	ERDS2TJ104T	100K 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	ERDS2TJ684T	680K 1/4W [M]
R635	ERDS2TJ154T	150K 1/4W [M]
R636	ERDS2TJ684T	680K 1/4W [M]
R637	ERDS2TJ104T	100K 1/4W [M]
R638	ERDS2TJ563T	56K 1/4W [M]
R639	ERDS2TJ333T	33K 1/4W [M]
R640	ERDS2TJ473T	47K 1/4W [M]
R641	ERDS2TJ221T	220 1/4W [M]
R642	ERDS2TJ221T	220 1/4W [M]
R643	ERDS2TJ221T	220 1/4W [M]
R644	ERDS2TJ221T	220 1/4W [M]
R645	ERG1SJ101E	100 1W [M] ⚠
R646	ERG1SJ101E	100 1W [M] ⚠
R647	ERG1SJ101E	100 1W [M] ⚠
R648	ERG1SJ101E	100 1W [M] ⚠
R649	ERD25FVJ151T	150 1/4W [M]
R650	ERD25FVJ151T	150 1/4W [M]
R652	ERD25FVJ4R7T	4.7 1/4W [M]
R653	ERDS2TJ682T	6.8K 1/4W [M]
R654	ERDS2TJ682T	6.8K 1/4W [M]
R656	ERDS2TJ681T	680 1/4W [M]
R657	ERDS2TJ333T	33K 1/4W [M]
R658	ERDS2TJ333T	33K 1/4W [M]
R659	ERDS2TJ183T	18K 1/4W [M]
R660	ERDS2TJ224T	220K 1/4W [M]
R661	ERDS2TJ102T	1K 1/4W [M]
R662	ERDS2TJ102T	1K 1/4W [M]
R663	ERDS2TJ102T	1K 1/4W [M]
R665	ERDS2TJ472T	4.7K 1/4W [M]
R666	ERDS2TJ472T	4.7K 1/4W [M]
R681	ERDS2TJ270T	27 1/4W [M]
R682	ERDS2TJ270T	27 1/4W [M]
R683	ERDS2TJ270T	27 1/4W [M]
R684	ERDS2TJ270T	27 1/4W [M]
R685	ERDS2TJ270T	27 1/4W [M]
R686	ERDS2TJ270T	27 1/4W [M]
R687	ERDS2TJ270T	27 1/4W [M]
R688	ERDS2TJ270T	27 1/4W [M]
R689	ERDS2TJ270T	27 1/4W [M]
R690	ERDS2TJ270T	27 1/4W [M]
R691	ERDS2TJ270T	27 1/4W [M]
R692	ERDS2TJ270T	27 1/4W [M]
R693	ERDS2TJ270T	27 1/4W [M]
R694	ERDS2TJ270T	27 1/4W [M]
R695	ERDS2TJ102T	1K 1/4W [M]
R696	ERDS2TJ102T	1K 1/4W [M]
R699	ERDS2TJ332T	3.3K 1/4W [M]
R703	ERDS1FVJ3R9T	3.9 1/2W [M] ⚠
R704	ERDS1FVJ3R9T	3.9 1/2W [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]
R709	ERDS2TJ1R5T	1.5 1/4W [M]
R710	ERDS2TJ1R5T	1.5 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]
R721	ERDS1FVJ471T	470 1/2W [M] ⚠
R722	ERDS2TJ392T	3.9K 1/4W [M]
R723	ERDS1FVJ100T	10 1/2W [M] ⚠
R724	ERDS1FVJ100T	10 1/2W [M] ⚠
R725	ERDS2TJ102T	1K 1/4W [M]
R726	ERDS1FVJ471T	470 1/2W [M] ⚠
R731	ERD25FVJ100T	10 1/4W [M]
R732	ERDS2TJ153T	15K 1/4W [M]
R733	ERDS2TJ123T	12K 1/4W [M]
R734	ERDS2TJ103T	10K 1/4W [M]
R735	ERDS2TJ103T	10K 1/4W [M]
R739	ERD25FVJ180T	18 1/4W [M]
R740	ERDS2TJ393T	39K 1/4W [M]
R742	ERDS2TJ393T	39K 1/4W [M]
R743	ERDS2TJ183T	18K 1/4W [M]
R751	ERC12UGK335D	3.3M 1/2W[M] ⚠
R754	ERDS2TJ102T	1K 1/4W [M]
R771	ERDS2TJ473T	47K 1/4W [M]
R772	ERDS2TJ473T	47K 1/4W [M]
R773	ERDS2TJ103T	10K 1/4W [M]
R774	ERDS2TJ335T	3.3M 1/4W [M]
R775	ERDS2TJ331T	330 1/4W [M]
R776	ERDS1FVJ4R7T	4.7 1/4W [M]
R777	ERDS2TJ224T	220K 1/4W [M]
R778	ERDS2TJ472T	4.7K 1/4W [M]
R779	ERDS2TJ103T	10K 1/4W [M]
R782	ERDS2TJ470T	47 1/4W [M]
R783	ERDS2TJ103T	10K 1/4W [M]
R784	ERDS2TJ154T	150K 1/4W [M]
R785	ERDS2TJ103T	10K 1/4W [M]
R786	ERDS2TJ154T	150K 1/4W [M]
R787	ERDS2TJ223T	22K 1/4W [M]
R788	ERDS2TJ223T	22K 1/4W [M]
R789	ERDS2TJ223T	22K 1/4W [M]
R790	ERDS2TJ223T	22K 1/4W [M]
R793	ERDS2TJ682T	6.8K 1/4W [M]
R794	ERDS2TJ682T	6.8K 1/4W [M]
R901	ERDS2TJ102T	1K 1/4W [M]
R906	ERDS2TJ182T	1.8K 1/4W [M]
R907	ERDS2TJ104T	100K 1/4W [M]
R908	ERDS2TJ104T	100K 1/4W [M]
R909	ERDS2TJ104T	100K 1/4W [M]
R910	ERDS2TJ102T	1K 1/4W [M]
R911	ERDS2TJ104T	100K 1/4W [M]
R917	ERDS2TJ103T	10K 1/4W [M]
R920	ERDS2TJ271T	270 1/4W [M]
R921	ERDS2TJ121T	120 1/4W [M]
R922	ERDS2TJ472T	4.7K 1/4W [M]
R929	ERDS2TJ101T	100 1/4W [M]
R930	ERDS2TJ101T	100 1/4W [M]
R936	ERDS2TJ104T	100K 1/4W [M]
R937	ERDS2TJ104T	100K 1/4W [M]
R943	ERDS2TJ102T	1K 1/4W [M]
R944	ERDS2TJ104T	100K 1/4W [M]
R945	ERDS2TJ104T	100K 1/4W [M]
R946	ERDS2TJ103T	10K 1/4W [M]
R947	ERDS2TJ103T	10K 1/4W [M]
R948	ERDS2TJ103T	10K 1/4W [M]
R949	ERDS2TJ103T	10K 1/4W [M]
R950	ERDS2TJ102T	1K 1/4W [M]
R951	ERDS2TJ122T	1.2K 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]
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]
R970	ERDS2TJ102T	1K 1/4W [M]
R971	ERDS2TJ122T	1.2K 1/4W [M]
R972	ERDS2TJ152T	1.5K 1/4W [M]
R973	ERDS2TJ182T	1.8K 1/4W [M]
R974	ERDS2TJ222T	2.2K 1/4W [M]
R1001	ERDS2TJ223T	22K 1/4W [M]
R1002	ERDS2TJ223T	22K 1/4W [M]
R1003	ERDS2TJ102T	1K 1/4W [M]
R1004	ERDS2TJ102T	1K 1/4W [M]
R1005	ERDS2TJ203T	20K 1/4W [M]
R1007	ERDS2TJ473T	47K 1/4W [M]
R1008	ERDS2TJ473T	47K 1/4W [M]
R1009	ERDS2TJ332T	3.3K 1/4W [M]
R1010	ERDS2TJ332T	3.3K 1/4W [M]
R1011	ERDS2TJ332T	3.3K 1/4W [M]
R1012	ERDS2TJ102T	1K 1/4W [M]
R1051	ERDS2TJ393T	39K 1/4W [M]
R1052	ERDS2TJ105T	1M 1/4W [M]
R1053	ERDS2TJ102T	1K 1/4W [M]
R1055	ERDS2TJ473T	47K 1/4W [M]
R1056	ERDS2TJ473T	47K 1/4W [M]

Ref No.	Part No.	Values & Remarks
R1061	ERDS2TJ222T	2.2K 1/4W [M]
	CAPACITORS	
C1	ECBT1H5R6KC5	5.6P 50V [M]
C2	RCBS1H102KBY	1000P 50V [M]
C3	ECBT1H2R2KC5	2.2P 50V [M]
C4	ECBT1H181KB5	180P 50V [M]
C5	ECBT1H5R6KC5	5.6P 50V [M]
C6	ECBT1H3R3KC5	3.3P 50V [M]
C7	ECBT1H4R7KC5	4.7P 50V [M]
C8	ECBT1H3R3KC5	3.3P 50V [M]
C9	ECBT1H2R2KC5	2.2P 50V [M]
C10	ECBT1H180JC5	18P 50V [M]
C11	RCBS1H102KBY	1000P 50V [M]
C101	ECBT1C103NS5	0.01 16V [M]
C103	ECBT1C103NS5	0.01 16V [M]
C104	ECBT1H102KB5	1000P 50V [M]
C105	ECBT1H102KB5	1000P 50V [M]
C106	ECBT1C103NS5	0.01 16V [M]
C107	ECBT1H473ZF5	0.047 50V [M]
C108	ECBT1H8R2KC5	8.2P 50V [M]
C109	ECBT1C103NS5	0.01 16V [M]
C110	ECBT1C103NS5	0.01 16V [M]
C111	ECEA1EKA4R7B	4.7 25V [M]
C112	ECBT1C103NS5	0.01 16V [M]
C113	ECBT1H102KB5	1000P 50V [M]
C114	ECEA1HKA3R3B	3.3 50V [M]
C115	ECEA1EKA4R7B	4.7 25V [M]
C116	ECBT1C822MS5	8200P 16V [M]
C117	ECQB1H821JF3	820P 50V [M]
C118	ECFR1E183KR	0.018 25V [M]
C119	ECFR1E183KR	0.018 25V [M]
C120	ECEA1HKA010B	1 50V [M]
C121	ECEA1HKA010B	1 50V [M]
C122	ECEA1HKA2R2B	2.2 50V [M]
C123	ECEA1HKA010B	1 50V [M]
C124	ECBT1H102KB5	1000P 50V [M]
C125	ECBT1H150JC5	15P 50V [M]
C126	ECBT1H104ZF5	0.1 50V [M]
C127	ECEA1CKA220B	22 16V [M]
C128	ECBT1C103NS5	0.01 16V [M]
C129	ECEA0JKA101B	100 6.3V [M]
C130	ECEA0JKA101B	100 6.3V [M]
C131	ECBT1C103NS5	0.01 16V [M]
C132	ECBT1H102KB5	1000P 50V [M]
C133	ECBT1H150JC5	15P 50V [M]
C134	ECBT1H180JC5	18P 50V [M]

Ref No.	Part No.	Values & Remarks
C137	ECBT1H271KB5	270P 50V [M]
C138	ECBT1H271KB5	270P 50V [M]
C141	ECEA1HKA010B	1 50V [M]
C142	ECEA1HKA010B	1 50V [M]
C143	ECEA1HKA010B	1 50V [M]
C144	ECEA1HKA010B	1 50V [M]
C145	ECBT1H220JC5	22P 50V [M]
C146	ECBT1H331KB5	330P 50V [M]
C147	ECBT1H102KB5	1000P 50V [M]
C148	ECBT1C103NS5	0.01 16V [M]
C149	ECBT1C103NS5	0.01 16V [M]
C150	ECBT1H104ZF5	0.1 50V [M]
C172	ECBT1H331KB5	330P 50V [M]
C173	ECEA1CKA220B	22 16V [M]
C174	ECEA1CKA100B	10 16V [M]
C175	ECBT1C103NS5	0.01 16V [M]
C196	ECBT1H102KB5	1000P 50V [M]
C330	ECBT1H470J5	47P 50V [M]
C331	ECBT1H470J5	47P 50V [M]
C351	ECA1CM101B	100 16V [M]
C352	ECA1CM101B	100 16V [M]
C354	ECBT1E103ZF5	0.01 25V [M]
C355	ECBT1E103ZF5	0.01 25V [M]
C357	ECBT1E103ZF5	0.01 25V [M]
C358	ECBT1E103ZF5	0.01 25V [M]
C373	ECA1EM470B	47 25V [M]
C374	ECA1EM470B	47 25V [M]
C401	ECEA1VKA4R7B	4.7 35V [M]
C402	ECEA1VKA4R7B	4.7 35V [M]
C403	ECBT1E103ZF5	0.01 25V [M]
C404	ECBT1E103ZF5	0.01 25V [M]
C405	ECBT1H101KB5	100P 50V [M]
C406	ECBT1H101KB5	100P 50V [M]
C409	ECEA1CKA220B	22 16V [M]
C410	ECEA1CKA220B	22 16V [M]
C411	ECBT1H101KB5	100P 50V [M]
C412	ECBT1H101KB5	100P 50V [M]
C415	ECBT1E103ZF5	0.01 25V [M]
C416	ECBT1E103ZF5	0.01 25V [M]
C417	ECBT1H101KB5	100P 50V [M]
C418	ECBT1H101KB5	100P 50V [M]
C419	ECBT1H101KB5	100P 50V [M]
C420	ECBT1H101KB5	100P 50V [M]
C421	ECBT1H101KB5	100P 50V [M]
C422	ECBT1H101KB5	100P 50V [M]
C423	ECBT1H101KB5	100P 50V [M]
C424	ECBT1H101KB5	100P 50V [M]
C425	ECBT1H101KB5	100P 50V [M]

Ref No.	Part No.	Values & Remarks
C426	ECBT1H101KB5	100P 50V [M]
C427	ECBT1H101KB5	100P 50V [M]
C428	ECBT1H101KB5	100P 50V [M]
C431	ECEA1CKA100B	10 16V [M]
C432	ECEA1CKA100B	10 16V [M]
C440	ECBT1E103ZF5	0.01 25V [M]
C451	ECEA1VKA4R7B	4.7 35V [M]
C452	ECEA1VKA4R7B	4.7 35V [M]
C453	ECBT1H101KB5	100P 50V [M]
C454	ECBT1H101KB5	100P 50V [M]
C455	ECBT1H102KB5	1000P 50V [M]
C456	ECBT1H102KB5	1000P 50V [M]
C457	ECA1CM330B	33 16V [M]
C458	ECA1CM330B	33 16V [M]
C459	ECFR1E223KR	0.022 25V [M]
C460	ECFR1E223KR	0.022 25V [M]
C461	ECFR1E682KR	6800P 25V [M]
C462	ECFR1E682KR	6800P 25V [M]
C463	ECEA1VKA4R7B	4.7 35V [M]
C464	ECEA1VKA4R7B	4.7 35V [M]
C465	ECBT1E103ZF5	0.01 25V [M]
C466	ECBT1E103ZF5	0.01 25V [M]
C503	ECEA0JKA101B	100 6.3V [M]
C504	ECEA0JKA101B	100 6.3V [M]
C505	ECFR1C104MR	0.1 16V [M]
C506	ECFR1C104MR	0.1 16V [M]
C511	ECEA1HKA3R3B	3.3 50V [M]
C512	ECEA1HKA3R3B	3.3 50V [M]
C513	ECBT1H150J5	15P 50V [M]
C514	ECBT1H150J5	15P 50V [M]
C515	ECBT1H221KB5	220P 50V [M]
C516	ECBT1H221KB5	220P 50V [M]
C517	ECBT1H330J5	33P 50V [M]
C518	ECBT1H330J5	33P 50V [M]
C519	ECEA1VKA4R7B	4.7 35V [M]
C520	ECEA1VKA4R7B	4.7 35V [M]
C521	ECEA1VKA4R7B	4.7 35V [M]
C522	ECEA1VKA4R7B	4.7 35V [M]
C523	ECFR1E123KR	0.012 25V [M]
C524	ECFR1E123KR	0.012 25V [M]
C525	ECQV1H683JM3	0.068 50V [M]
C526	ECQV1H683JM3	0.068 50V [M]
C527	ECBT1C562KR5	5600P 16V [M]
C528	ECBT1C562KR5	5600P 16V [M]
C529	ECQB1H273JF3	0.027 50V [M]
C530	ECQB1H273JF3	0.027 50V [M]
C531	ECBT1E103ZF5	0.01 25V [M]
C532	ECBT1E103ZF5	0.01 25V [M]

Ref No.	Part No.	Values & Remarks
C533	ECEA1CKA220B	22 16V [M]
C534	ECEA1CKA220B	22 16V [M]
C536	ECBT1E103ZF5	0.01 25V [M]
C551	ECEA1HKA3R3B	3.3 50V [M]
C552	ECEA1HKA3R3B	3.3 50V [M]
C553	ECBT1H101KB5	100P 50V [M]
C554	ECBT1H101KB5	100P 50V [M]
C555	ECBT1H221KB5	220P 50V [M]
C556	ECBT1H221KB5	220P 50V [M]
C557	ECBT1E103ZF5	0.01 25V [M]
C558	ECBT1E103ZF5	0.01 25V [M]
C559	ECEA1CKA100B	10 16V [M]
C560	ECEA1CKA100B	10 16V [M]
C561	ECA1HM3R3B	3.3 50V [M]
C562	ECA1HM3R3B	3.3 50V [M]
C563	ECBT1H104ZF5	0.1 50V [M]
C601	ECEA1CKA220B	22 16V [M]
C602	ECEA1CKA220B	22 16V [M]
C603	ECEA1VKA4R7B	4.7 35V [M]
C604	ECEA1VKA4R7B	4.7 35V [M]
C605	ECA1JM330B	33 6.3V [M]
C606	ECA1JM330B	33 6.3V [M]
C607	ECA1JM330B	33 6.3V [M]
C608	ECA1JM330B	33 6.3V [M]
C609	ECCR1H120KC5	12P 50V [M]
C610	ECCR1H120KC5	12P 50V [M]
C611	ECCR1H120KC5	12P 50V [M]
C612	ECCR1H120KC5	12P 50V [M]
C613	ECBT1H821KB5	820P 50V [M]
C614	ECBT1H821KB5	820P 50V [M]
C615	ECBT1H821KB5	820P 50V [M]
C616	ECBT1H821KB5	820P 50V [M]
C617	ECQV1H473JZ3	0.047 50V [M]
C618	ECQV1H473JZ3	0.047 50V [M]
C619	ECQV1H473JZ3	0.047 50V [M]
C620	ECQV1H473JZ3	0.047 50V [M]
C621	ECEA2AU100B	10 100V [M]
C622	ECEA1HN010SB	1 50V [M]
C623	ECA1HM470B	47 50V [M]
C624	ECEA2AN2R2SB	2.2 100V [M]
C625	ECEA1HN100SB	10 50V [M]
C626	ECEA1HN100SB	10 50V [M]
C635	ECEA1VKA4R7B	4.7 35V [M]
C636	ECEA1HN010SB	1 50V [M]
C685	ECBT1E103ZF5	0.01 25V [M]
C701	ECBT1E103ZF5	0.01 25V [M]
C702	ECQE2104KF3	0.1 250V [M]
C703	EC0S1JP682CB	6800 63V[M] ⚠

Ref No.	Part No.	Values & Remarks
C704	EC0S1JP682CB	6800 63V[M]⚠
C705	EC0S1VP562BB	5600 35V[M]⚠
C706	EC0S1VP562BB	5600 35V[M]⚠
C707	ECA1VM101B	100 35V[M]⚠
C708	ECKR1H103ZF5	0.01 50V [M]
C709	ECA1CM330B	33 16V [M]
C710	ECBT1E103ZF5	0.01 25V [M]
C711	ECKR1H103ZF5	0.01 50V [M]
C712	ECA1HM100B	10 50V [M]
C713	ECKR1H103ZF5	0.01 50V [M]
C714	ECA1EM470B	47 25V [M]
C715	ECEA1CU101B	100 16V [M]
C721	ECQE2104KF3	0.1 250V [M]
C731	ECKR1H103ZF5	0.01 50V [M]
C732	ECKR1H103ZF5	0.01 50V [M]
C751	ECKWNS102MBM	1000P⚠400V[M]
C752	ECKR1H103ZF5	0.01 50V [M]
C753	ECA1EM102B	1000 25V[M]⚠
C754	ECBT1E103ZF5	0.01 25V [M]
C755	ECA1CM470B	47 16V [M]
C757	ECA1CM100B	10 16V [M]
C771	ECEA1VKA4R7B	4.7 35V [M]
C772	ECEA1VKA4R7B	4.7 35V [M]
C773	ECBT1E223ZF5	0.022 25V [M]
C774	ECEA0JKA101B	100 6.3V [M]
C775	ECBT1E223ZF5	0.022 25V [M]
C901	ECA0JM102B	02 6.3V [M]
C902	ECBT1E223ZF5	0.022 25V [M]
C903	ECBT1E103ZF5	0.01 25V [M]
C904	ECA0JM102B	02 6.3V [M]
C906	ECEA0JKA101B	100 6.3V [M]
C908	ECBT1E103ZF5	0.01 25V [M]
C909	ECEA1HKA220B	22 50V [M]
C910	ECEA1HKA220B	22 50V [M]
C911	ECEA1HKA220B	22 50V [M]
C912	ECEA1HKA220B	22 50V [M]
C913	ECEA1VKA100B	10 35V [M]
C914	ECEA1VKA100B	10 35V [M]
C916	ECEA1HKA010B	1 50V [M]
C919	ECBT1E103ZF5	0.01 25V [M]
C920	ECEA1HKA010B	1 50V [M]
C935	ECBT1H101KB5	100P 50V [M]
C939	ECBT1H101KB5	100P 50V [M]
C952	ECBT1H101KB5	100P 50V [M]
C953	ECBT1H101KB5	100P 50V [M]
C955	ECBT1H101KB5	100P 50V [M]
C956	ECBT1H101KB5	100P 50V [M]
C1001	ECA1HM010B	1 50V [M]

Ref No.	Part No.	Values & Remarks
C1002	ECA1HM010B	1 50V [M]
C1003	ECA1HM3R3B	3.3 50V [M]
C1004	ECA1HM3R3B	3.3 50V [M]
C1005	ECA1HM010B	1 50V [M]
C1007	ECFR1E223KR	0.022 25V [M]
C1008	ECFR1E473KR	0.047 25V [M]
C1009	ECEA0JU221B	220 6.3V [M]
C1010	ECEA1CKA100B	10 16V [M]
C1011	ECEA1CKA100B	10 16V [M]
C1012	ECEA1CKA100B	10 16V [M]
C1013	ECEA1CKA100B	10 16V [M]
C1014	ECEA0JU221B	220 6.3V [M]
C1015	ECQV1H104JM3	0.1 50V [M]
C1016	ECQV1H104JM3	0.1 50V [M]
C1017	ECA1HMR47B	0.47 50V [M]
C1018	ECEA1VKA4R7B	4.7 35V [M]
C1019	ECA1HMR47B	0.47 50V [M]
C1020	ECEA1VKA4R7B	4.7 35V [M]
C1021	ECEA1HKAR15B	0.15 50V [M]
C1022	ECA1HM3R3B	3.3 50V [M]
C1023	ECQV1H154JZ3	0.15 50V [M]
C1024	ECQV1H154JZ3	0.15 50V [M]
C1025	ECA1HM3R3B	3.3 50V [M]
C1026	ECEA1HKAR15B	0.15 50V [M]
C1027	ECEA1VKA4R7B	4.7 35V [M]
C1028	ECA1HMR47B	0.47 50V [M]
C1029	ECEA1VKA4R7B	4.7 35V [M]
C1030	ECA1HMR47B	0.47 50V [M]
C1031	ECQV1H104JM3	0.1 50V [M]
C1032	ECQV1H104JM3	0.1 50V [M]
C1033	ECA1EM470B	47 25V [M]
C1034	ECQV1H474JM3	0.47 50V [M]
C1035	ECBT1H681KB5	680P 50V [M]
C1036	ECBT1H101KB5	100P 50V [M]
C1037	ECBT1H101KB5	100P 50V [M]
C1038	ECBT1H101KB5	100P 50V [M]
C1039	ECEA1CU101B	100 16V [M]
C1040	ECEA1CKA100B	10 16V [M]
C1041	ECBT1E103ZF5	0.01 25V [M]
C1051	ECA1HM2R2B	2.2 50V [M]
C1052	ECA1HMR33B	0.33 50V [M]
C1053	ECA1HM3R3B	3.3 50V [M]
C1054	ECEA0JU221B	220 6.3V [M]
C1055	ECA1HMR47B	0.47 50V [M]
C1056	ECQV1H823JZ3	0.082 50V [M]
C1057	ECFR1E332KR	3300P 25V [M]
C1058	ECQV1H823JZ3	0.082 50V [M]
C1059	ECEA1CU101B	100 16V [M]

Ref No.	Part No.	Values & Remarks
C1060	ECBT1E223ZF5	0.022 25V [M]
C1062	ECBT1E223ZF5	0.022 25V [M]
C1063	ECEA1CU101B	100 16V [M]
C1065	ECBT1H681KB5	680P 50V [M]
C1067	ECBT1C152KR5	1500P 16V [M]
C1068	ECBT1C152KR5	1500P 16V [M]

Ref No.	Part No.	Values & Remarks

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