ORDER NO. MD9707074C1
A2

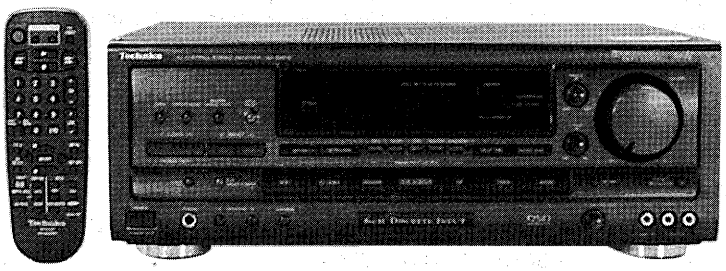
Service Manual

AV Control Stereo Receiver

DOLBY SURROUND PRO • LOGIC *

Receiver

SA-AX810



Colour

(K) . . . . . Black Type

Area

Suffix for Model No.	Area	Colour
(P)	U.S.A.	(K)

* 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 trade marks of Dolby Laboratories Licensing Corporation.

■ Specifications

■ FM Tuner Section

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

■ AM Tuner Section

Frequency range	530 — 1710kHz
Sensitivty	20µV, 330µV/m
Selectivity	55dB
Image rejection at 1000kHz	40dB
IF rejection at 1000kHz	60dB

■ Video Section

Output voltage at 1 V input (unbalanced)	1±0.1Vp-p
Maximum input voltage	1.5Vp-p
Input/output impedance	75Ω

■ Amplifier Section

Rated minimum sine wave RMS power output	
20 Hz–20 kHz both channels driven	
0.05% total harmonic distortion	120W per channel (8Ω)
1 kHz continuous power output,	
both channels driven 0.05% total	
harmonic distortion	125W per channel (8Ω)
Total harmonic distortion	
Rated power at 20 Hz – 20kHz	0.05% (8Ω)
Half power at 1 kHz	0.03% (8Ω)
Power output at the Dolby Pro Logic operation	
0.9% at 1 kHz,	
Front	2X100 W (8Ω)
Center	100 W (8Ω)
Surround	2X100 W (8Ω)
Low frequency damping factor	30 (8Ω)
Load impedance	
Front	
A or B	4-8Ω
A and B	8Ω
Center	8Ω
Surround	8Ω
Dynamic headroom	2dB (8Ω)
SMPTE intermodulation distortion	0.3%
Frequency response	
PHONO	RIAA standard curve ± 0.8dB
CD, TAPE, TV/VCR 2, VCR 1, DVD/DSS	7Hz – 70kHz, ± 3dB
Input sensitivity	
PHONO	0.4mV (3mV, IHF '66)
CD, TAPE, TV/VCR 2, VCR 1, DVD/DSS	27mV (200mV, IHF '66)
S/N (IHF A)	
PHONO	70dB (80dB, IHF '66)
CD, TAPE, TV/VCR 2, VCR 1, DVD/DSS	75dB (85dB, IHF '66)
Input impedance	
PHONO	47kΩ
CD, TAPE, TV/VCR 2, VCR 1, DVD/DSS	22kΩ
Tone controls	
BASS	50Hz, +10 to -10dB
TREBLE	20kHz, +10 to -10dB
Subwoofer frequency responce	7Hz – 100Hz, ±3dB
Loudness control (volume at –30dB)	50Hz, +9dB

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.

■ General

Power consumption	290W (In standby condition : 2W)
Power supply	AC 120V, 60Hz
Dimensions (W x H x D)	430 x 158 x 312 mm ($16^{15}/_{16}$" x $6^{7}/_{32}$" x $12^{9}/_{32}$")
Weight	9.5kg (20.9lb.)

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 Precaution

(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 .

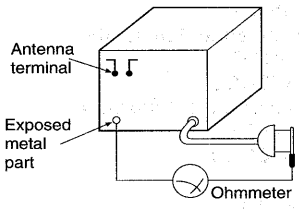


Fig. 1
Resistance = 3MΩ– 5.2MΩ

. 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 .

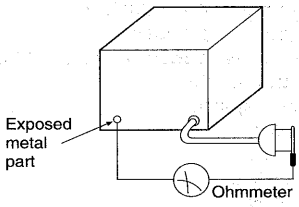


Fig. 2
Resistance = Approx ∞

■ Before Repair and Adjustment

Disconnect AC power, discharge 4 Power Supply Capacitors C703, C704, C705 and 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 AC 120 V, 60Hz in NO SIGNAL mode should be 500 ~ 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.

■ Operation Checks and Main Component Replacement Procedures

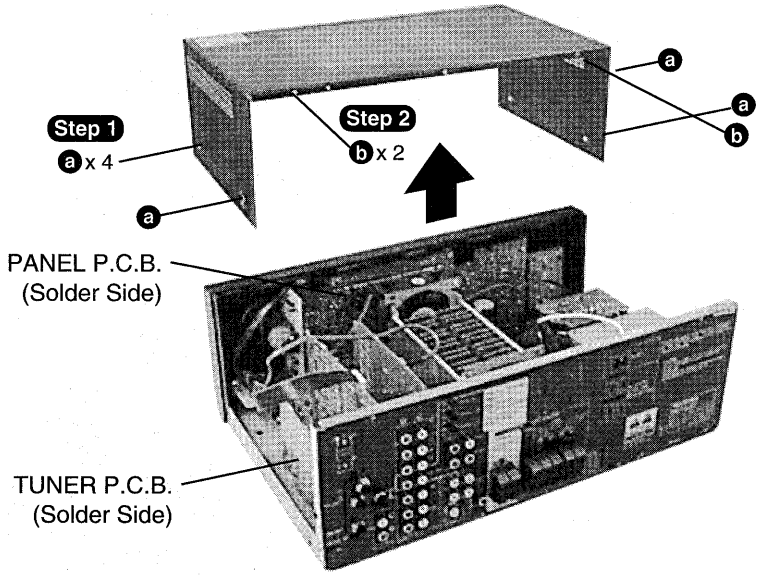
"ATTENTION SERVICER" Some chassis components may have sharp edges. Be careful when disassembling and servicing.

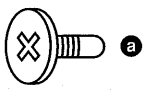
1. **This section describes procedures for checking the operation of the major printed circuit boards and replacing the main components.**
2. **For reassembly after operation checks or replacement, reverse the respective procedures. Special reassembly procedures are described only when required.**
3.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

• Contents

■ Checking Procedure For Each Major P.C.B.

1. Checking of the Panel P.C.B., and Tuner P.C.B.





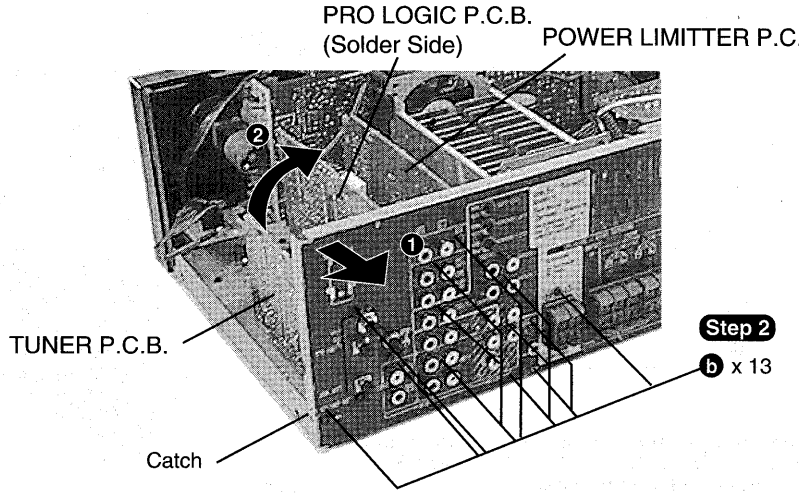
[SNE2129-1] (Black)

[XTBS3+8JFZ1] (Black)

2. Checking of the Pro Logic P.C.B. and Power Limitter P.C.B.

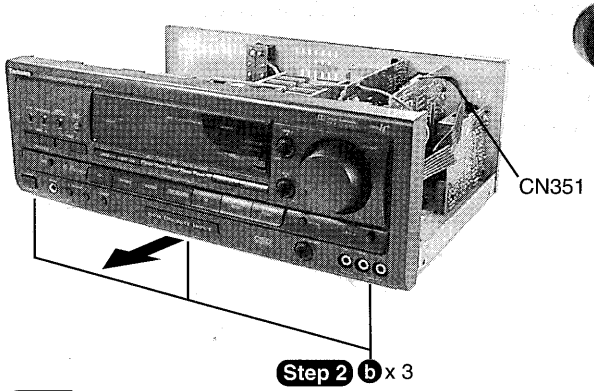
Step 1
Remove the top cabinet.

Step 3
Release the catch, pull the rear panel in the direction of arrow ❶ and simultaniously remove the tuner P.C.B. in the direction of arrow ❷.



To Remove Front Panel, Panel P.C.B., Power Switch P.C.B. and Headphone Jack P.C.B.

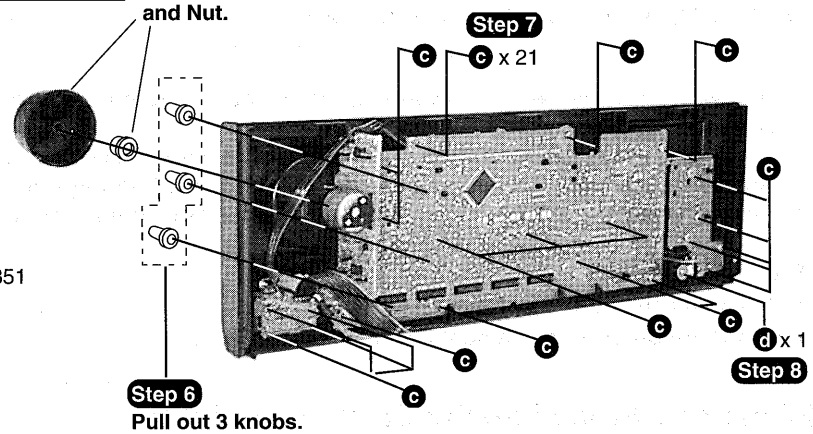
Step 1
Remove the top cabinet.

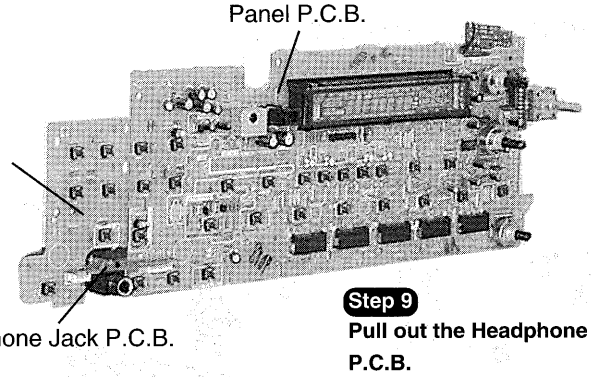


Step 3
Remove the connector CN351.

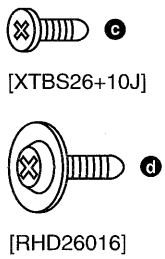
Step 4
Remove the front panel in the direction of arrow.

Step 5
Remove the Volume Knob and Nut.





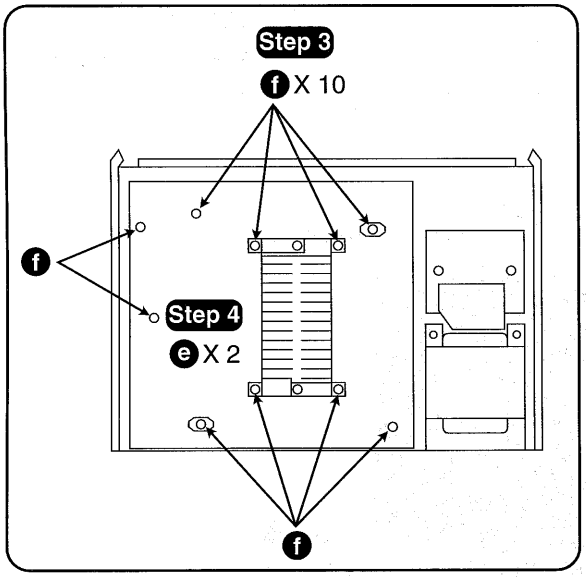
Step 9
Pull out the Headphone Jack P.C.B.

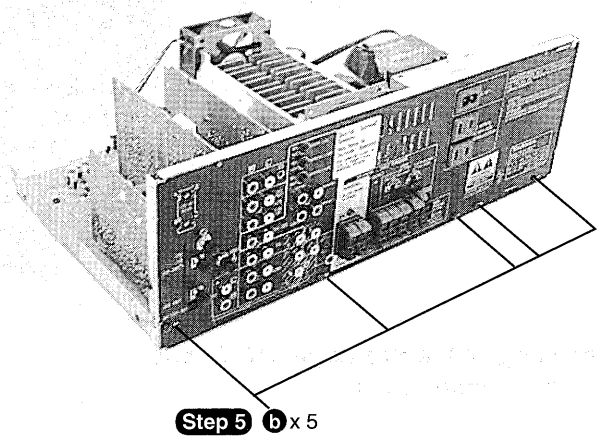


3. Checking of the MAIN P.C.B.

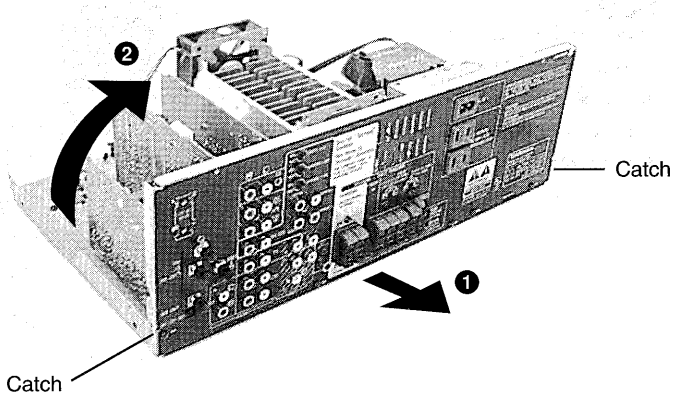
Step 1
Remove the top cabinet.

Step 2
Remove the front panel.





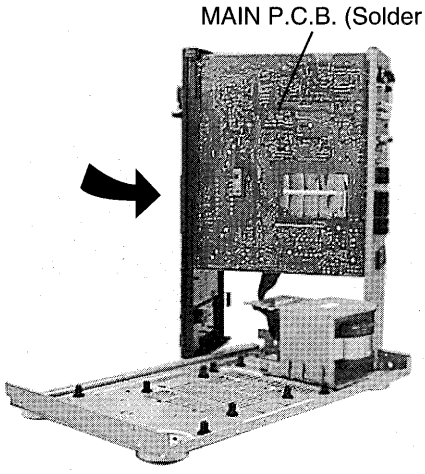
Step 7
Lift the rear panel in the direction of arrow ❷.

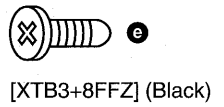


Step 6
Release 2 catches and pull the rear panel in the direction of arrow ❶ for about 10mm. (Note : Main, Tuner and Pro Logic P.C.B. are attach to the rear panel)

Step 8
Connect the front panel to the main P.C.B. as shown.

• Check the Main P.C.B. as shown •





[XTB3+8FFZ] (Black)

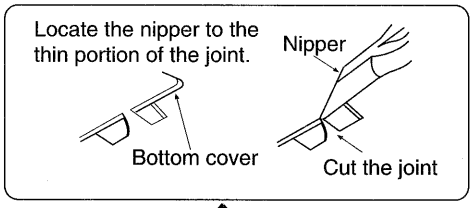
[XTB3+20JFZ] (Black)

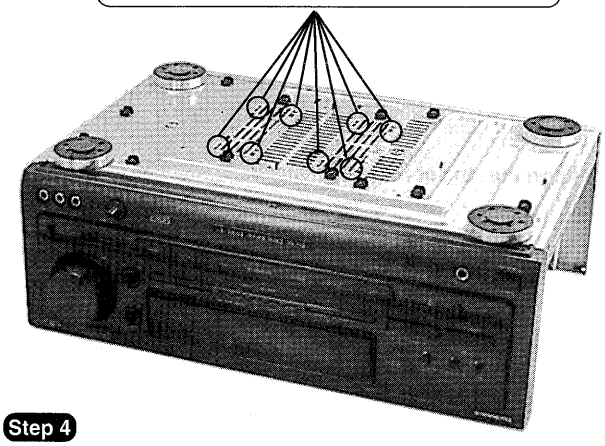
■ Main Component Replacement Procedures

1. Replacement of the Power IC and Regulator Transistor

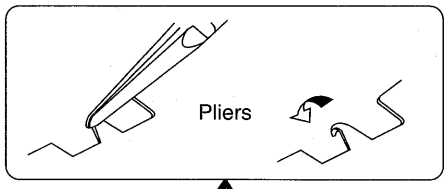
Step 1
Remove the top cabinet.

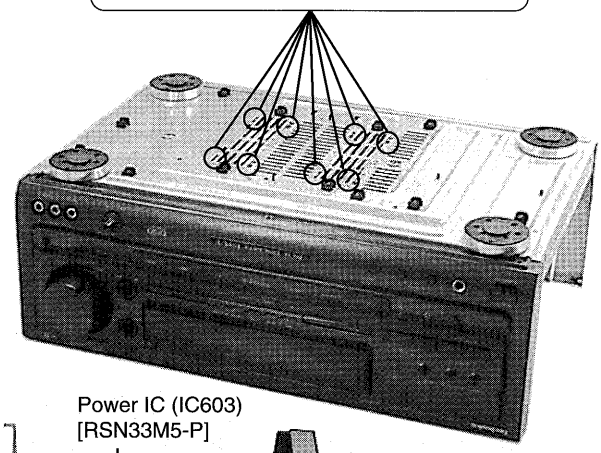
Step 2 **Cut the joints as shown below. (6 joints)**



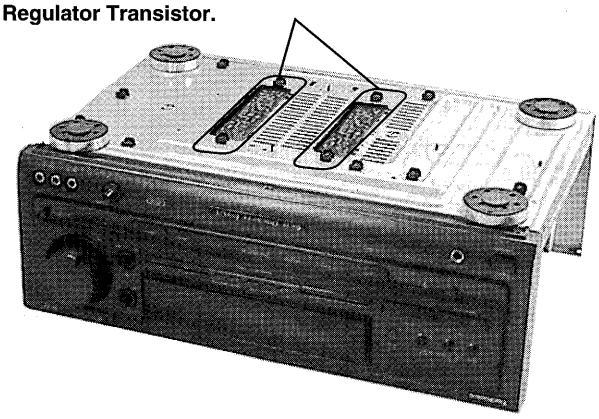


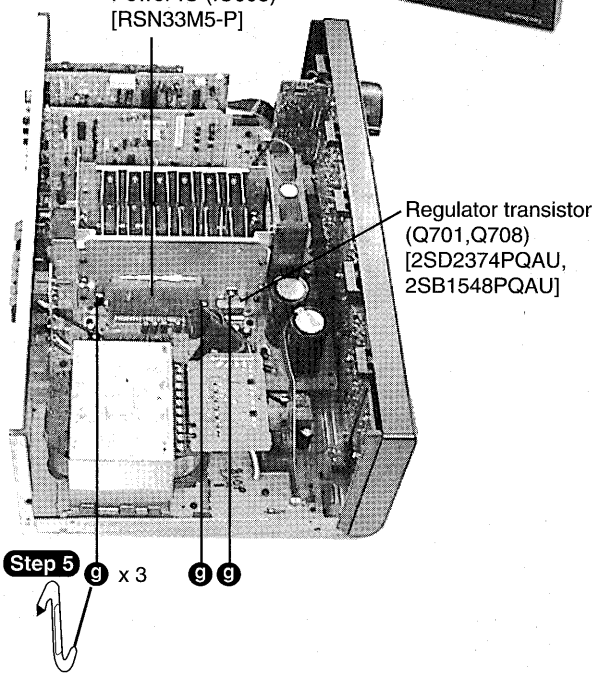
Step 3 **Fold the joints. (6 joints)**

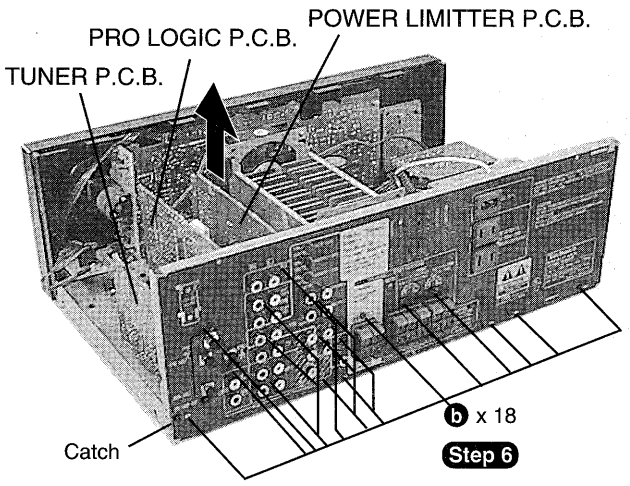


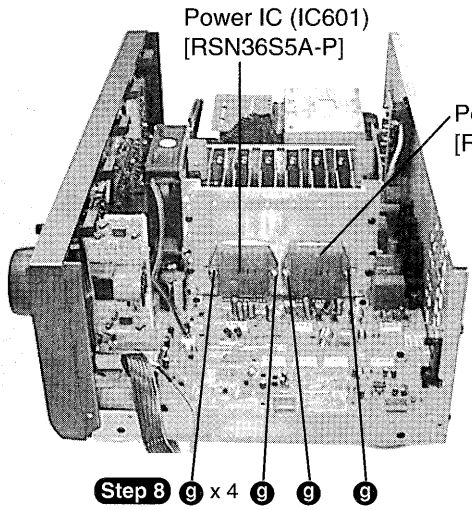


Step 4
Desolder the terminals of Power IC and Regulator Transistor.









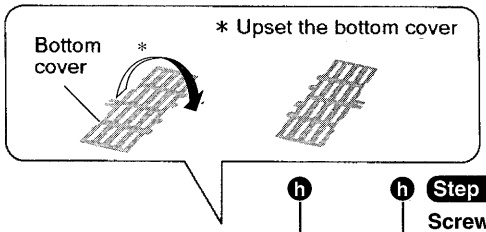
[XTW3+15T]

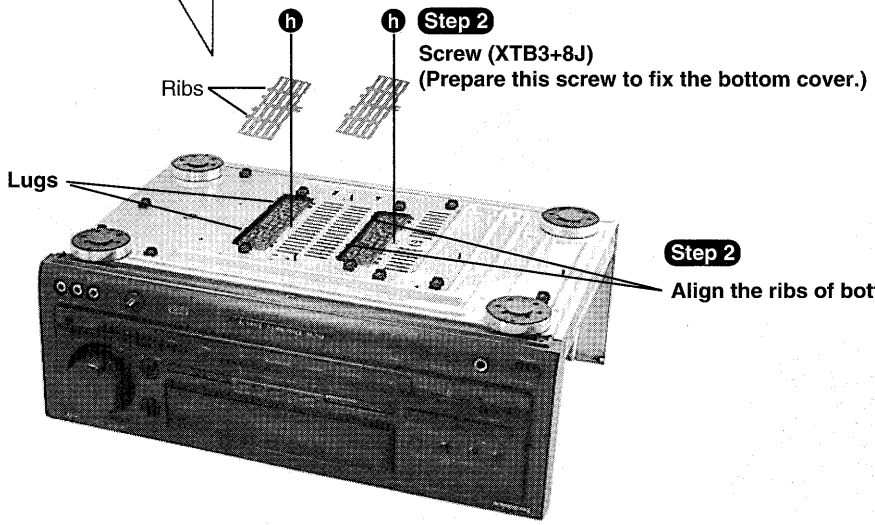
Step 7

Pull out the Power Limitter P.C.B., Pro Logic P.C.B. and Tuner P.C.B.

Installation of the bottom cover after replacement

Step 1





Step 2

Screw (XTB3+8J)

(Prepare this screw to fix the bottom cover.)

Step 2

Align the ribs of bottom cover into the lugs.

[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. and transformer.(See Fig.1 & 3)
- 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)

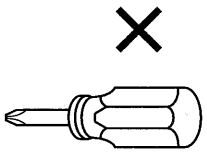


Fig.2

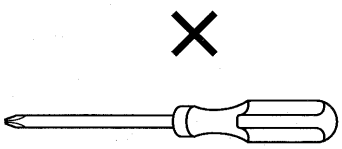


Fig.1

- 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.

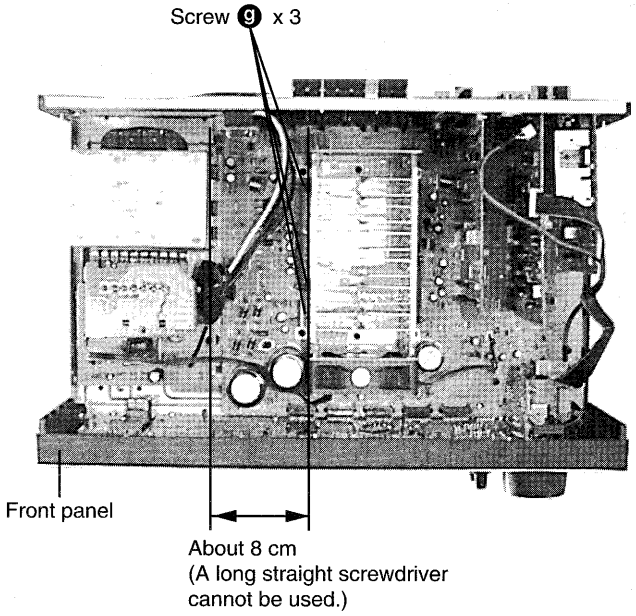
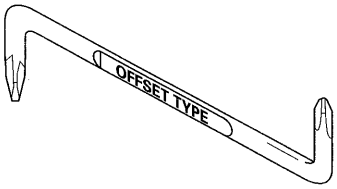


Fig.3

——OFFSET SCREWDRIVER——

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



No.	⊕	← L →
34$^{1}/_{4}$	1 & 2	4$^{1}/_{4}$"

•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
Nunrweding 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 Bangkaew
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, Maxico
Fax: 52-22-494-4880
Phone: 52-22-495-300

South & Central America,
Puerto Rico, The Caribbian
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, Ontorio
Canada, L7L 5R6
Fax: 416-335-0075
Phone: 416-335-0075

Middel East, Mediterranean & Africa
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-AX810 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)

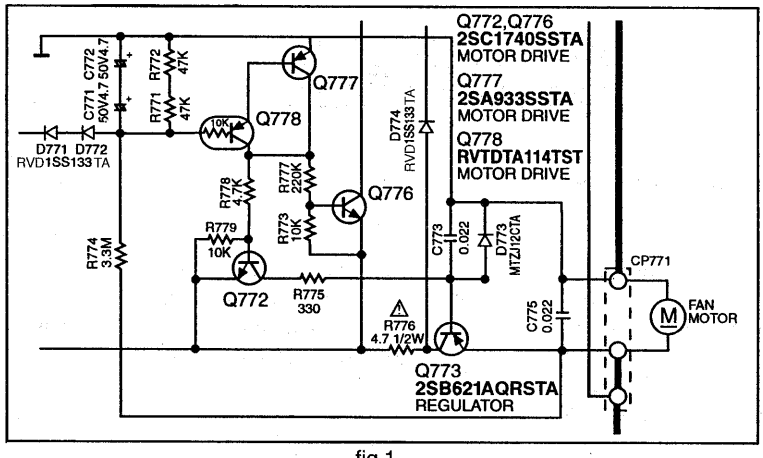


fig.1

Is an audio signal present at pins ① and ④ of IC601 and IC602 or pin ⑦ of IC603

NO → The power IC (IC601 or IC602) is defective.

YES

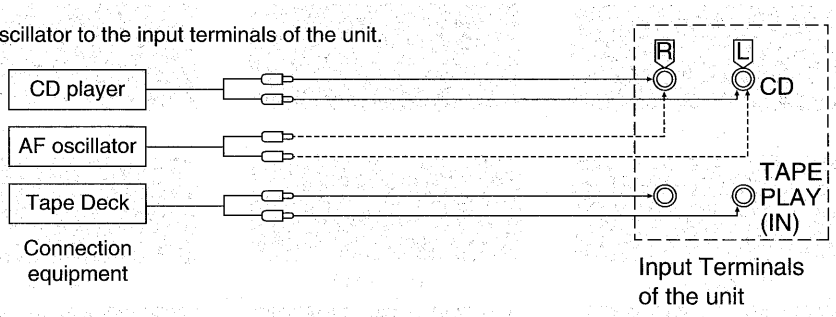
The fan motor, power ICs and fan driver are functioning normally.

■ 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 disc (SZZP1054C / first progarm, 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" postion.
Set the Speaker select buttons of the unit to the "SPEAKERS A" 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:

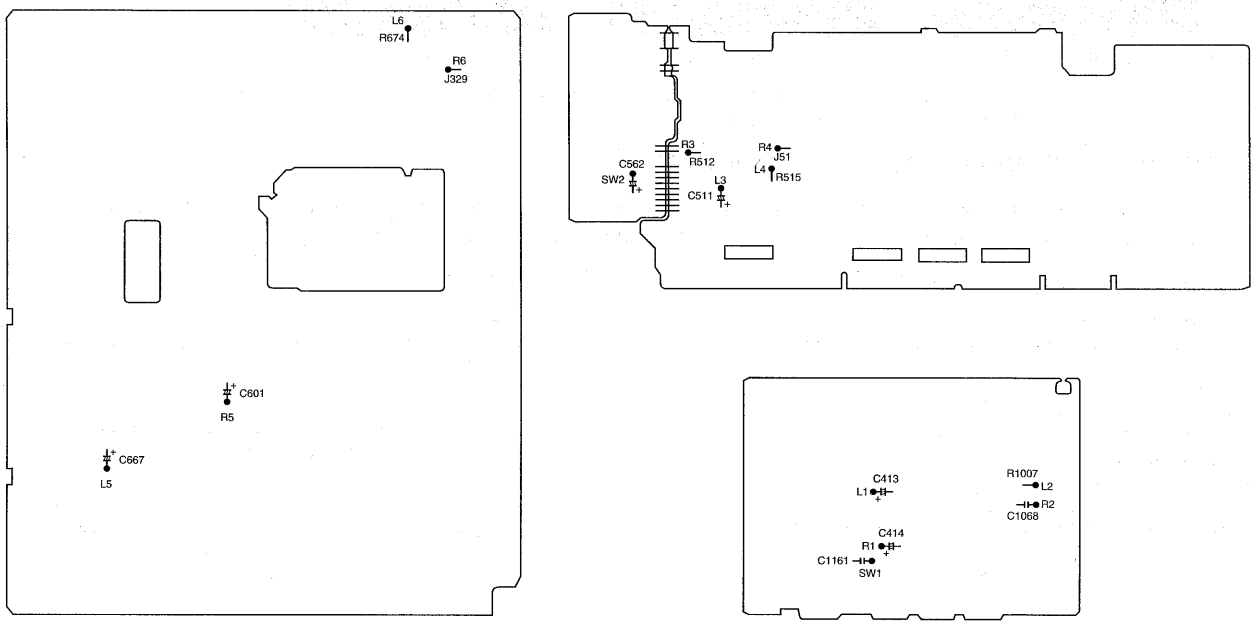
Power on the unit.
Set the input selector button of the unit to the "TAPE MONITOR" postion.
Set the Speaker ON/OFF button of the unit to the SPEAKERS "ON" position.

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

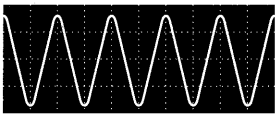
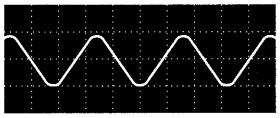
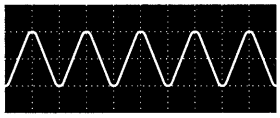
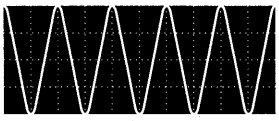
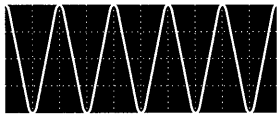
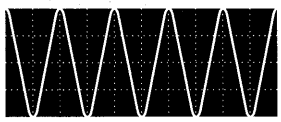
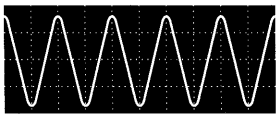
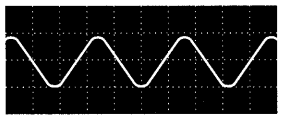
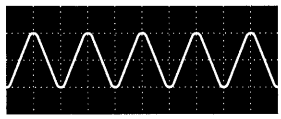
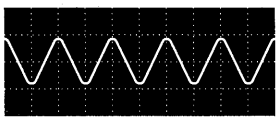
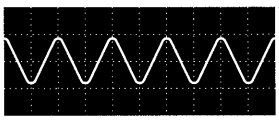
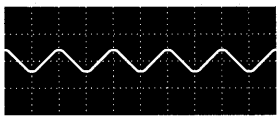
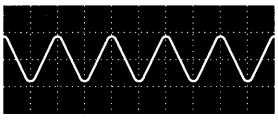
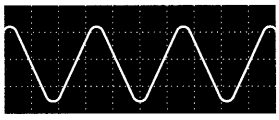
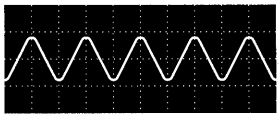
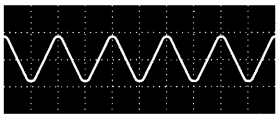
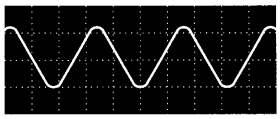
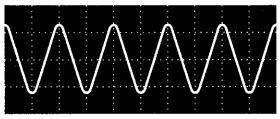
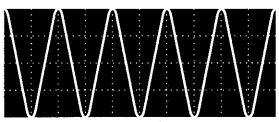
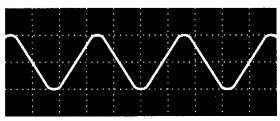
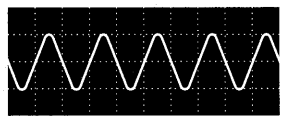
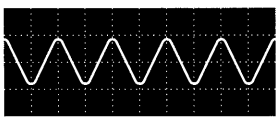
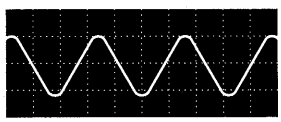
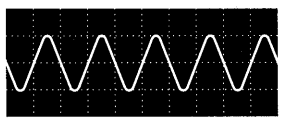
Using the Oscilloscope, check the output waveforms at the test points on the circuit boards of the unit in the following order: (L1,R1)→(L2,R2)→(L3,R3)→(L4,R4)→(L5,R5)→(L6,R6).
Refer to page 10.

Note: Connect the '+' probe of the oscilloscope to each test point and the '–' probe to chassis ground.

TEST POINTS POSITIONS OF AMPLIFIER CIRCUIT



NORMAL WAVEFORMS OF AMPLIFIER CIRCUIT AND LIKELY FAULTY BLOCKS

TP	CD	TAPE	AF oscillator	Likely faulty block if the normal waveform shown at the left is not present.
L1/R1	 0.5msec 2V	 1msec 500mV	 1msec 500mV	Input selector block IC401 & area
SW1	 0.5msec 0.1V	 1msec 20mV	 1msec 20mV	Sub-Woofer amplifier IC1151 & area
L2/R2	 0.5msec 2V	 1msec 500mV	 1msec 500mV	Dolby pro logic block IC1001 and IC1002 & area
SW2	 1msec 25V	 1msec 25mV	 1msec 25mV	Master volume block VR501 & area
L3/R3	 0.5msec 500mV	 1msec 50mV	 1msec 100mV	Master volume block VR501 & area
L4/R4	 0.5msec 500mV	 1msec 1V	 1msec 1V	Tone control block IC511 & area
L5/R5	 0.5msec 100mV*	 1msec 500mV	 1msec 500mV	Power limiter block Q581 to Q584 & area
L6/R6	 0.5msec 5mV*	 1msec 10mV	 1msec 10V	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 signal 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.

When the CD player or AF oscillator is connected :

Power on the unit.
Set the input selector button of the unit to the "CD" position.

↓

While pressing both VCR button and Speakers A button, press the "Power" button.

↓

The letter 「SURROUND」 flash on the FL display.

↓

Ⓐ

When the tape deck is connected :

Power on the unit.
Set the input selector button of the unit to the "TAPE MONITOR" position.

↓

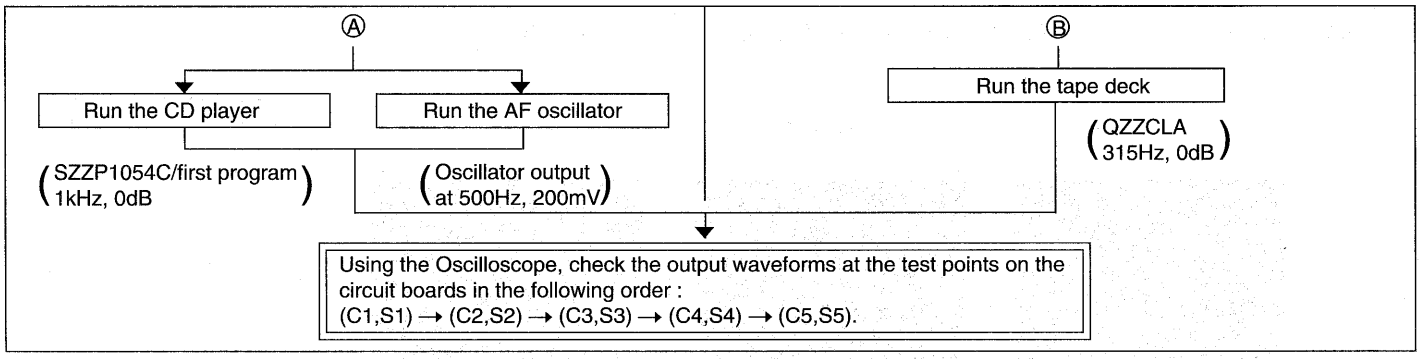
While pressing both VCR button and Speakers A button, press the "Power" button.

↓

The letter 「SURROUND」 flash on the FL display.

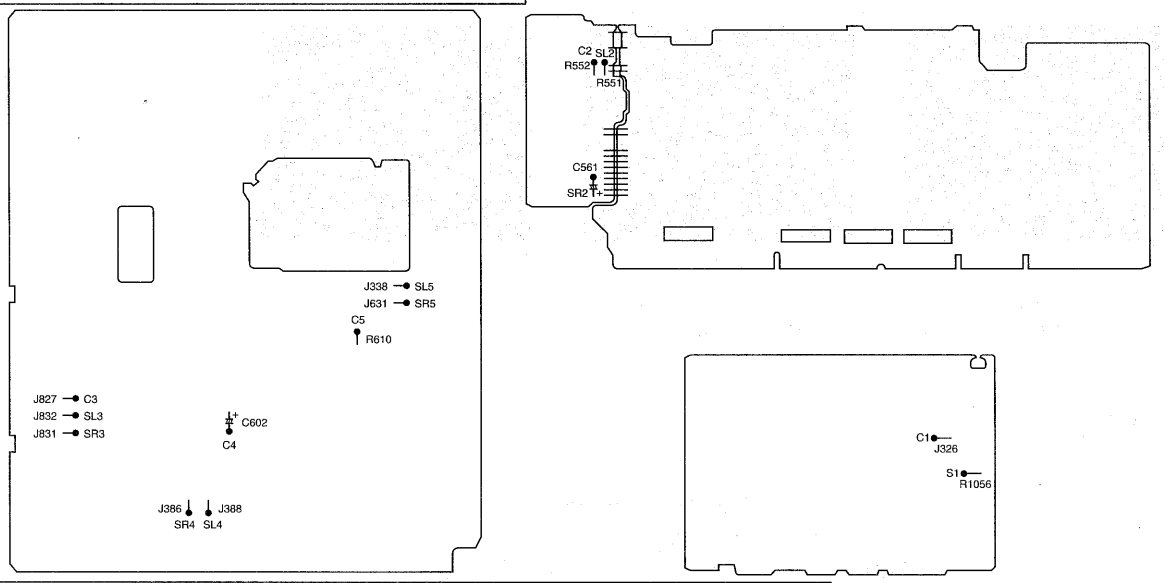
↓

Ⓑ

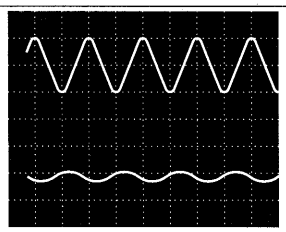
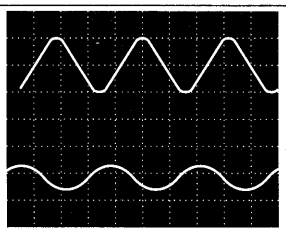
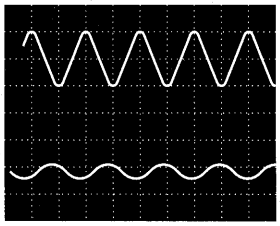
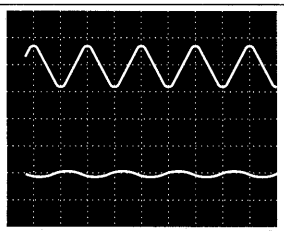
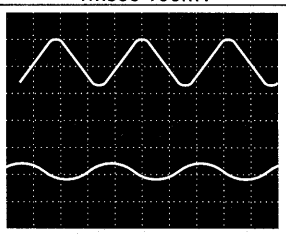
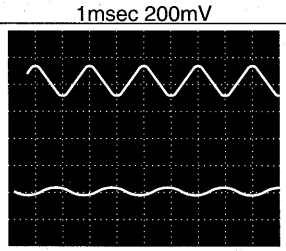
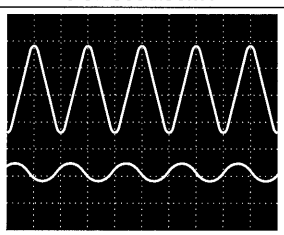
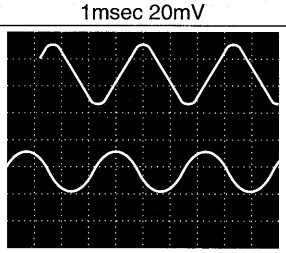
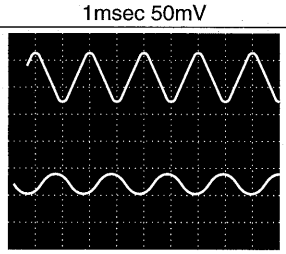


• To exit the service mode, power off the unit.

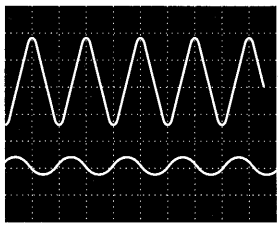
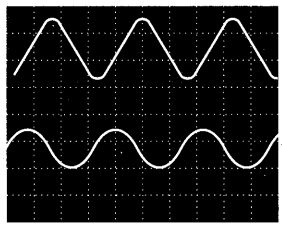
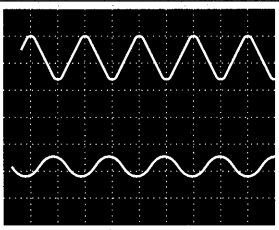
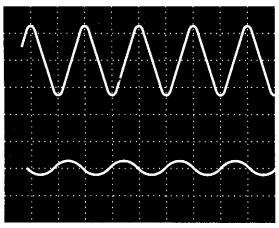
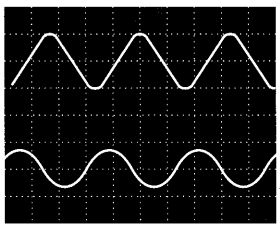
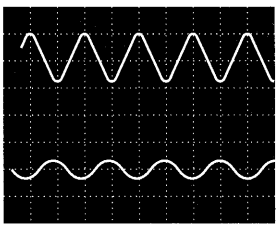
TEST POINTS POSITIONS OF SOURROUND CIRCUIT



NORMAL WAVEFORMS OF AMPLIFIER CIRCUIT AND LIKELY FAULTY BLOCKS

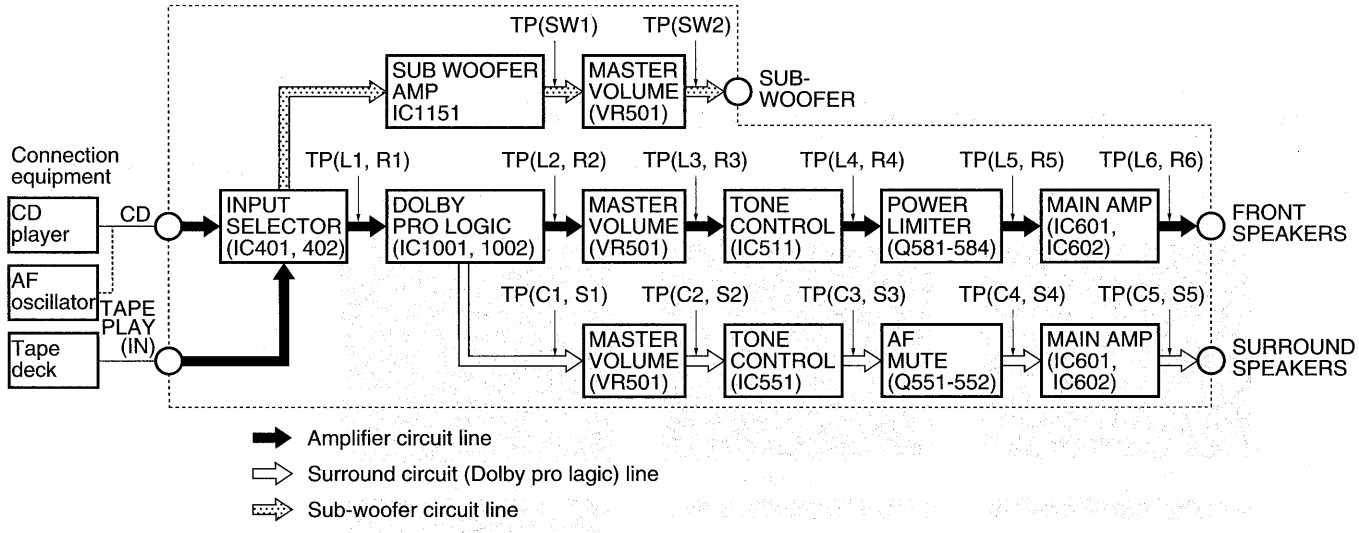
TP	CD player	Tape deck	AF oscillator	Likely faulty block if the normal waveform shown at the left is not present.
C1 S1	 0.5msec 1V	 1msec 100mV	 1msec 200mV	Dolby pro logic block IC1001 and IC1002 & area
C2 SL2/SR2	 0.5msec 200mV	 1msec 20mV	 1msec 50mV	Master volume block VR501 & area
C3 SL3/SR3	 0.5msec 200mV*	 1msec 500mV	 1msec 1V	Tone control block IC551 & area

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.
C4 SL4/SR4	 0.5msec 200mV*	 1msec 500mV	 1msec 1V	Power limiter block Q551 to Q552 & area
C5 SL5/SR5	 0.5msec 5V*	 1msec 10V	 1msec 1V*	Main amplifier block IC601, IC602 & area

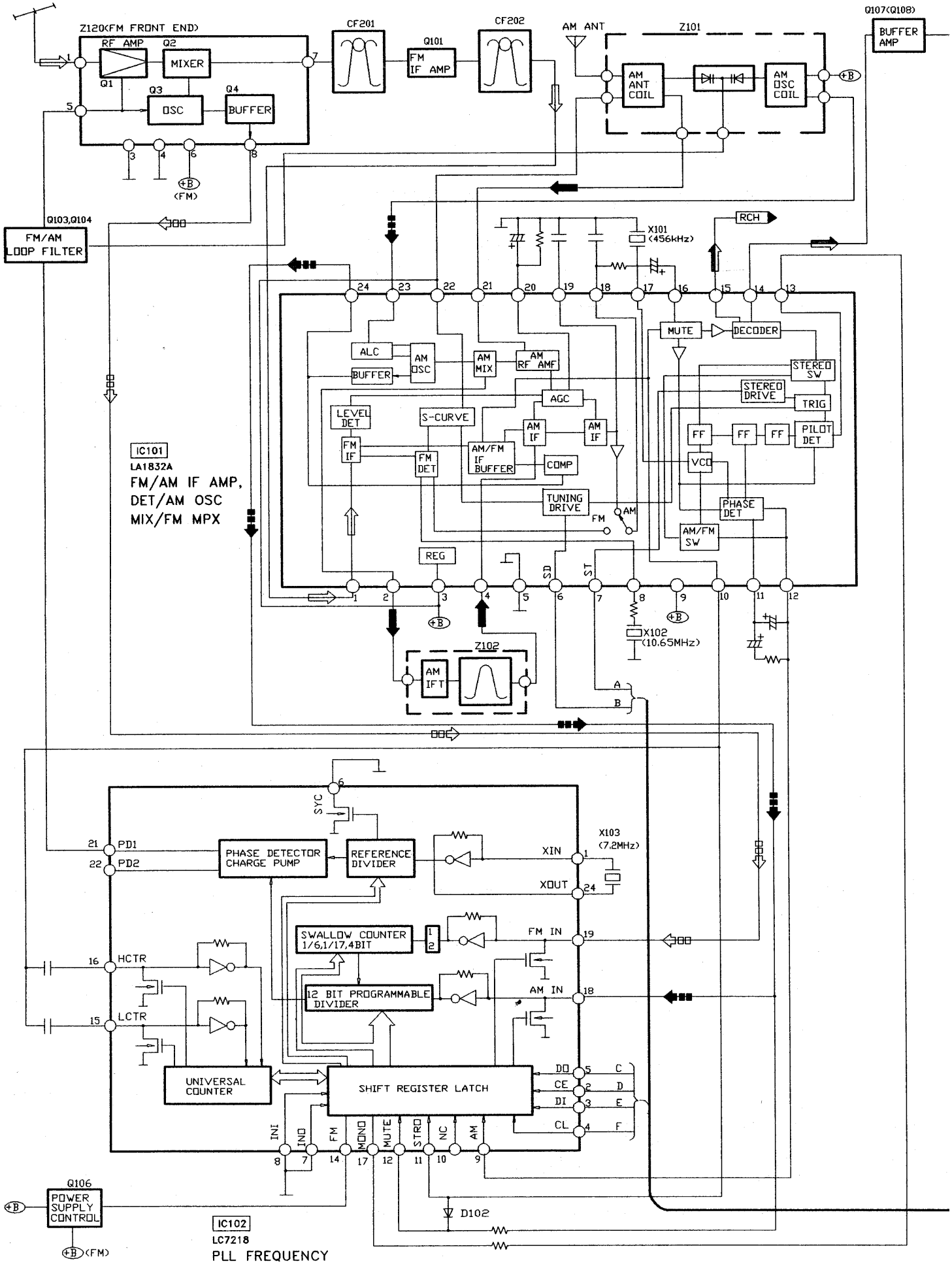
Measurement conditions. Volume control (VR501), Tremble control (VR512) and Bass control (VR511) positions : ⊙
*Volume control position (VR501) for these test : ⊙

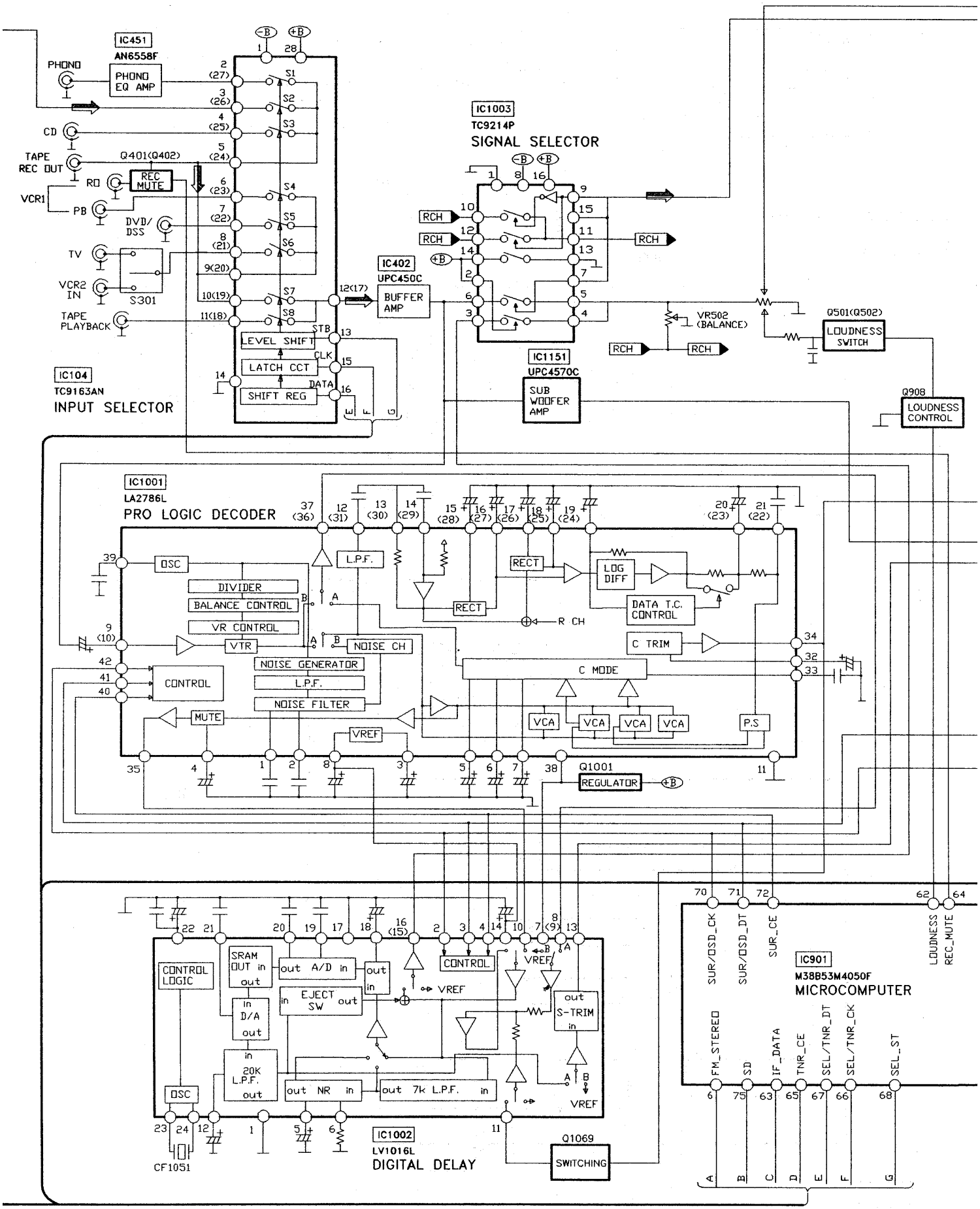
CIRCUIT BLOCKS

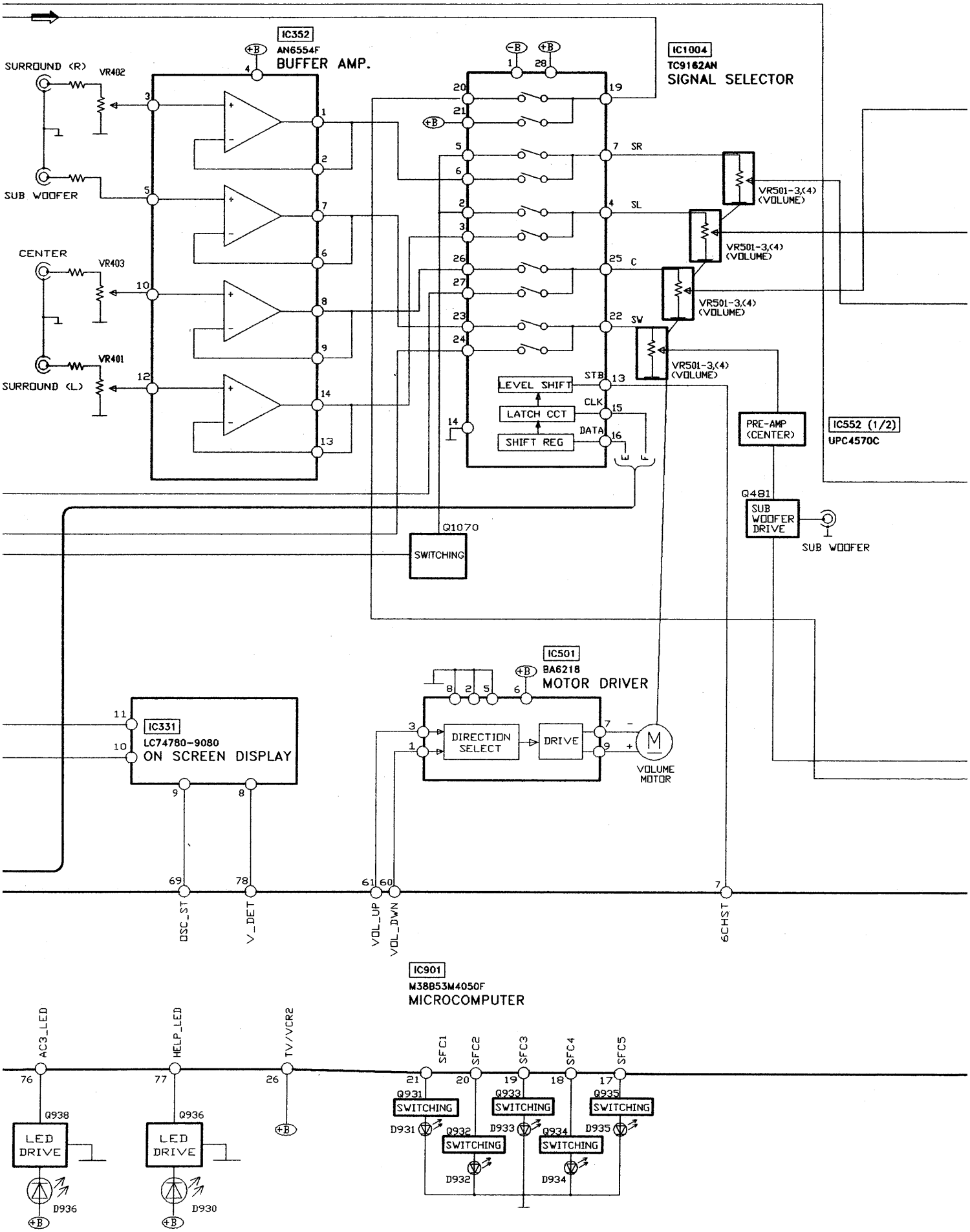


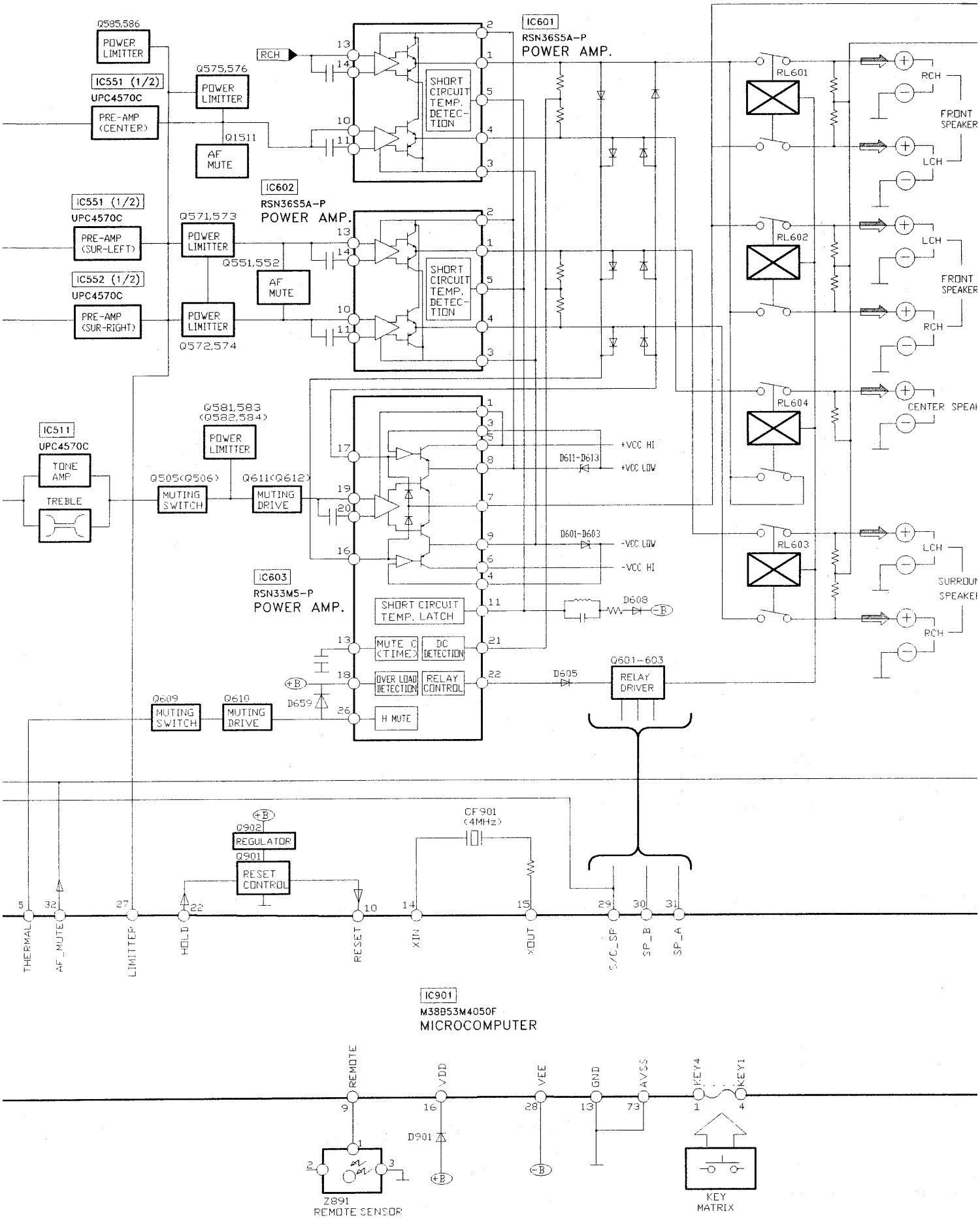
■ OVERLOAD DETECTION FUNCTION

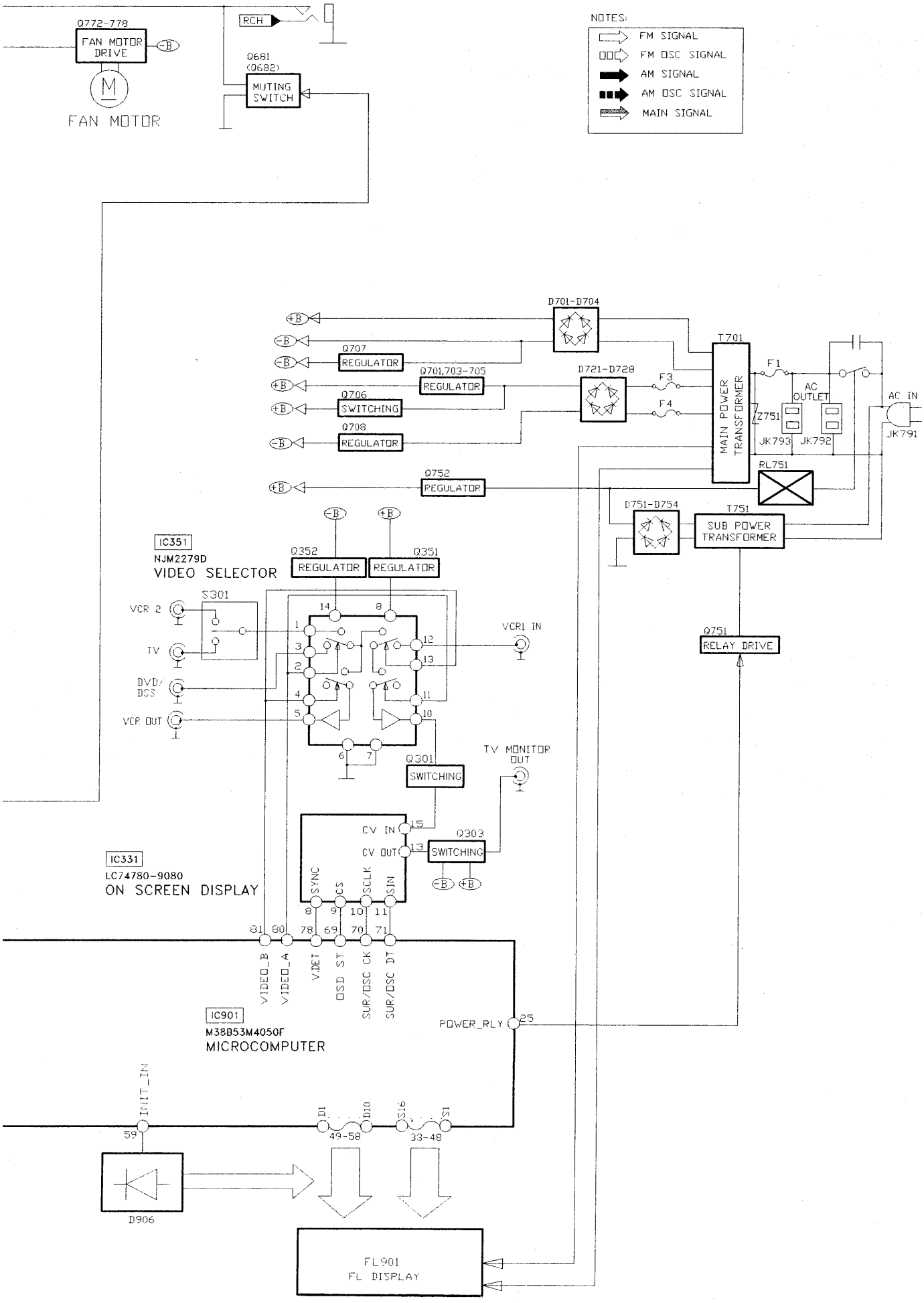
The HIC protection circuit functions if any cord at a speaker terminal is short-circuited or if the unit overheats because of improper operation. At the same time, "OVERLOAD" scrolls across the FL display.
In this state, all keys remain in operative; if any key is pressed, "SWITCH OFF POWER" scrolls across the FL display.
If an overload occurs, immediately power off the unit and check the speaker connection, venting holes and cooling fans. After fixing any faults, power on the unit again and check for proper operation.
If no defects are found, or if the unit remains overload after it is power on again, check the circuit for faults.


Z120(FM FRONT END)
RF AMP
Q2
MIXER
Q1
Q3
OSC
Q4
BUFFER
CF201
Q101
FM IF AMP
CF202
AM ANT
Z101
AM ANT COIL
AM OSC COIL
Q107(Q108)
BUFFER AMP
+B (FM)
Q103,Q104
FM/AM LOOP FILTER
X101 (456kHz)
RCH
IC101
LA1832A
FM/AM IF AMP, DET/AM OSC MIX/FM MPX
ALC
AM OSC
BUFFER
AM MIX
AM RF AMF
AGC
LEVEL DET
S-CURVE
FM IF
FM DET
AM/FM IF BUFFER
AM IF
COMP
TUNING DRIVE
FM
AM
REG
MUTE
DECODER
STEREO SW
STEREO DRIVE
TRIG
FF
PILOT DET
VCO
PHASE DET
AM/FM SW
SB
ST
X102 (10.65MHz)
Z102
AM IFT
A
B
SYC
PD1
PD2
PHASE DETECTOR CHARGE PUMP
REFERENCE DIVIDER
XIN
XOUT
X103 (7.2MHz)
SWALLOW COUNTER 1/6,1/17,4BIT
FM IN
12 BIT PROGRAMMABLE DIVIDER
AM IN
HCTR
LCTR
UNIVERSAL COUNTER
SHIFT REGISTER LATCH
DO
CE
DI
CL
INI
IND
FM
MONO
MUTE
STRO
NC
AM
Q106
POWER SUPPLY CONTROL
+B (FM)
IC102
LC7218
PLL FREQUENCY
D102


IC451
AN6558F
PHONO EQ AMP
PHONO
CD
TAPE REC OUT
Q401(Q402)
REC MUTE
RD
VCR1
PB
DVD/ DSS
TV
VCR2 IN
S301
TAPE PLAYBACK
S1
S2
S3
S4
S5
S6
S7
S8
LEVEL SHIFT
LATCH CCT
SHIFT REG
STB
CLK
DATA
IC104
TC9163AN
INPUT SELECTOR
IC1003
TC9214P
SIGNAL SELECTOR
RCH
IC402
UPC450C
BUFFER AMP
VR502 (BALANCE)
Q501(Q502)
LOUDNESS SWITCH
IC1151
UPC4570C
SUB WOOFER AMP
Q908
LOUDNESS CONTROL
IC1001
LA2786L
PRO LOGIC DECODER
OSC
DIVIDER
BALANCE CONTROL
VR CONTROL
VTR
NOISE CH
NOISE GENERATOR
L.P.F.
NOISE FILTER
CONTROL
MUTE
VREF
L.P.F.
RECT
LOG DIFF
DATA T.C. CONTROL
R CH
C TRIM
C MODE
VCA
P.S
Q1001
REGULATOR
CONTROL LOGIC
SRAM
OUT in
out A/D in
EJECT SW
D/A
20K L.P.F.
out NR in
out 7k L.P.F. in
S-TRIM
CF1051
IC1002
LV1016L
DIGITAL DELAY
Q1069
SWITCHING
IC901
M38B53M4050F
MICROCOMPUTER
SUR/OSD_CK
SUR/OSD_DT
SUR_CE
LOUDNESS
REC_MUTE
FM_STEREO
SD
IF_DATA
TNR_CE
SEL/TNR_DT
SEL/TNR_CK
SEL_ST


IC352
AN6554F
BUFFER AMP.
SURROUND (R)
VR402
SUB WOOFER
CENTER
VR403
VR401
SURROUND (L)
IC1004
TC9162AN
SIGNAL SELECTOR
SR
SL
C
SW
VR501-3,(4)
(VOLUME)
LEVEL SHIFT
LATCH CCT
SHIFT REG
STB
CLK
DATA
Q1070
SWITCHING
PRE-AMP
(CENTER)
IC552 (1/2)
UPC4570C
Q481
SUB
WOOFER
DRIVE
SUB WOOFER
IC501
BA6218
MOTOR DRIVER
DIRECTION
SELECT
DRIVE
VOLUME
MOTOR
IC331
LC74780-9080
ON SCREEN DISPLAY
OSC_ST
V_DET
VOL_UP
VOL_DWN
6CHST
IC901
M38B53M4050F
MICROCOMPUTER
AC3_LED
HELP_LED
TV/VCR2
SFC1
SFC2
SFC3
SFC4
SFC5
Q938
Q936
LED
DRIVE
D936
D930
Q931
Q933
Q935
Q932
Q934
D931
D932
D933
D934
D935


Q585,586
POWER LIMITTER
IC551 (1/2)
UPC4570C
PRE-AMP (CENTER)
Q575,576
POWER LIMITTER
Q1511
AF MUTE
RCH
IC601
RSN36S5A-P
POWER AMP.
SHORT CIRCUIT TEMP. DETEC-TION
IC602
RSN36S5A-P
POWER AMP.
IC551 (1/2)
UPC4570C
PRE-AMP (SUR-LEFT)
Q571,573
POWER LIMITTER
Q551,552
AF MUTE
IC552 (1/2)
UPC4570C
PRE-AMP (SUR-RIGHT)
POWER LIMITTER
Q572,574
RL601
RL602
RL604
RL603
RCH
FRONT SPEAKER
LCH
FRONT SPEAKER
RCH
CENTER SPEAK
LCH
SURROUN SPEAKE
RCH
Q581,583 (Q582,584)
POWER LIMITTER
IC511
UPC4570C
TONE AMP
TREBLE
Q505(Q506)
MUTING SWITCH
Q611(Q612)
MUTING DRIVE
+VCC HI
D611-D613
+VCC LOW
D601-D603
-VCC LOW
-VCC HI
IC603
RSN33M5-P
POWER AMP.
SHORT CIRCUIT TEMP. LATCH
D608
MUTE C (TIME)
DC DETECTION
OVER LOAD DETECTION
RELAY CONTROL
D605
Q601-603
RELAY DRIVER
Q609
MUTING SWITCH
Q610
MUTING DRIVE
D659
H MUTE
+B
Q902
REGULATOR
Q901
RESET CONTROL
CF901 (4MHz)
THERMAL
AF_MUTE
LIMITTER
HOLD
RESET
XIN
XOUT
S/C_SP
SP_B
SP_A
IC901
M38B53M4050F
MICROCOMPUTER
REMOTE
VDD
VEE
GND
AVSS
KEY4
KEY1
D901
Z891
REMOTE SENSOR
KEY MATRIX


Q772-778
FAN MOTOR DRIVE
-B
M
FAN MOTOR
RCH
Q681
(Q682)
MUTING SWITCH
NOTES:
FM SIGNAL
FM OSC SIGNAL
AM SIGNAL
AM OSC SIGNAL
MAIN SIGNAL
D701-D704
+B
-B
Q707
REGULATOR
Q701,703-705
REGULATOR
Q706
SWITCHING
Q708
REGULATOR
Q752
REGULATOR
D721-D728
F3
F4
T701
MAIN POWER TRANSFORMER
F1
AC OUTLET
Z751
JK793
JK792
AC IN
JK791
RL751
D751-D754
T751
SUB POWER TRANSFORMER
Q751
RELAY DRIVE
IC351
NJM2279D
VIDEO SELECTOR
Q352
REGULATOR
Q351
REGULATOR
S301
VCR 2
TV
DVD/ DSS
VCR OUT
VCR1 IN
Q301
SWITCHING
TV MONITOR OUT
IC331
LC74780-9080
ON SCREEN DISPLAY
CV IN
CV OUT
Q303
SWITCHING
SYNC
CS
SCLK
SIN
VIDEO_B
VIDEO_A
V.DET
OSD ST
SUR/DSC CK
SUR/DSC DT
IC901
M38B53M4050F
MICROCOMPUTER
POWER_RLY
INIT_IN
D1
D10
S16
S1
49-58
33-48
D906
FL901
FL DISPLAY

■ Terminal Functions Of ICs

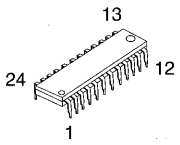
• IC901 (M38B53M4050F) System Microprocessor

Pin No.	Mark	I/O	Function
1~4	KEY4~KEY1	I	Key matrix detect terminal
5	THERM/OVLD	I	Thermal/Over load detect terminal
6	FM_ST	I	Stereo signal detect terminal
7	6CH_ST	O	6 CH discrete signal output
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	(4 MHz)
16	VDD	I	Power supply terminal
17~21	SFC5-SFC1	O	SFC LED indicator output
22	HOLD	I	Power trip detection input
23	STANDEY_LED	–	Not used
24	FAN_STOP	–	Not used
25	RLY	O	Power relay control output
26	TV/DVD	I	TV/DVD select control input
27	LIMITTER	O	Power limitter control output
28	VEE	I	FL driver pull down voltage
29	S/C_SP	O	Surround/center speaker control output
30	SP_B	O	Speaker B control output
31	SP_A	O	Speaker A control output
32	AF_MUTE	O	Muting control output

Pin No.	Mark	I/O	Function
33~48	SEG16~SEG1	O	FL segment signal output
49~58	DEG1~DEG10	O	FL digit signal output
59	INIT_IN	I	Diode input
60	VOL_DOWN	O	Rotate control terminal of volume motor
61	VOL_UP	O	
62	LOUDNESS	O	Loudness control output
63	IF_DATA	I	Serial data signal
64	REC_MUTE	O	Record mute control output
65	TNR_CE	O	Chip enable signal
66	SEL/TNR_CK	O	Senal clock signal
67	SEL/TNR_DT	O	Serial data signal
68	SEL_ST	O	Level shift control terminal
69	OSD_ST	O	OSD control terminal
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	–	GND for A-D conveter
74	VREF	I	Reference voltage for A-D convertion
75	SD	I	SD signal detect input
76	AC3_LED	O	LED drive signal (AC3)
77	HELP_LED	O	LED drive signal (HELP)
78	VIDEO_DET	O	Video selector control output
79	VIDEO_B	O	Video selector control output B
80	VIDEO_A	O	Video selector control output A

■ Terminal Guide Of ICs, Transistors and Diodes

LA1832A
LC7218



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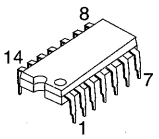
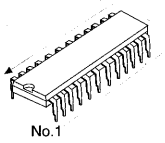
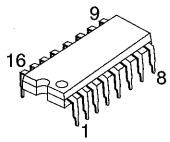


TC9163AN 28Pin
AN6554F 14Pin
TC9162AN 28Pin



TC9214P



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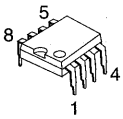
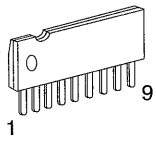
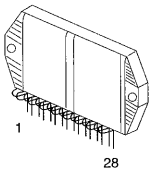
UPC4570C



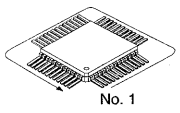
BA6218



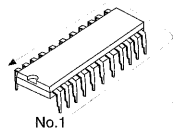
RSN33M5-P



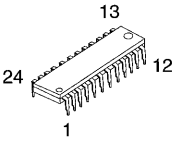
M38B53M4050F
(80Pin)



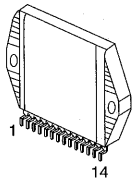
LA2786L (42Pin)



LV1016L
LC74780-9080



RSN36S5A-P



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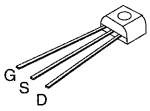

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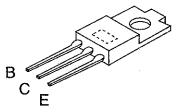
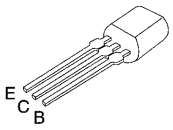
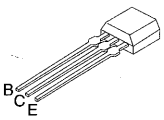


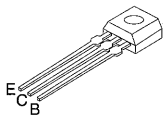
2SD592AQSTA
2SB621AQSTA
2SA1534AQRTA
2SC3940AQSTA
2SB621AQRSTA



2SA933SSTA
2SC1740SSTA

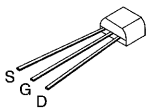


RVTDTA113ZST
RVTDTC114EST
RVTDTA114EST
RVTDTC143XST
RVTDTA114TST
RVTDTC114YST
RVTDTA114YST



2SC2786MTA
2SC2787FL1TA
2SC2787LTA
2SC2785FETA
UN411FTA
2SC3311ARTA
2SD1915FTA
2SC3311AQSTA

2SJ40CTA
2SK381CTA



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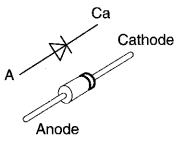
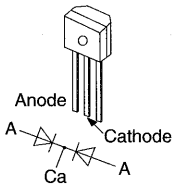
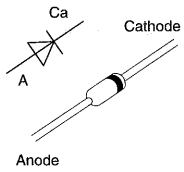
P300DLF



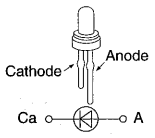
SVC211SPA-AL



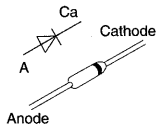


RVD1SS133TA
1SR35200TB
1SS291TA
MA167ATA
MA700ATA

SLR342MC
SLR342DC
SLR342DCTB7



MTZJ5R1BTA
MTZJ5R6BTA
MTZJ7R5CTA



MTZJ3R0ATA
MTZJ6R2BTA
MTZJ15CTA
MTZJ6R8BTA
MTZJ4R7BTA
MTZJ3R9ATA
MTZJ10CTA
MTZJ27DTA
MTZJ12CTA

■ Schematic Diagram

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

Note:

- S301 : TV/VCR2 select switch
- S946 : Power switch
- S948 : Muting switch
- S950 : FM Auto/ Mono switch
- S951 : Band select switch
- S952 : Tuning decrease switch
- S953 : Tuning increase switch
- S954 : Sleep switch
- S955 : Memory manual/auto switch
- S956 : Preset decrease switch
- S957 : Preset increase switch
- S958 : Help switch
- S965 : 6CH discrete switch
- S970 : Simulated switch
- S971 : Theater switch
- S972 : Live switch
- S973 : Club switch
- S974 : Hall switch
- S975 : DVD select switch
- S976 : Delay time switch
- S980 : Speakers A switch
- S981 : Speakers B switch
- S982 : Loudness switch
- S983 : Dolby Pro Logic/SFC off on switch
- S984 : Dolby Pro Logic mode select switch
- S985 : Center mode select switch
- S991 : Phono select switch
- S992 : Tuner select switch
- S993 : CD select switch
- S994 : Tape select switch
- S995 : TV/VCR2 select switch
- S996 : VCR1 select switch
- VR501-1 ~ VR501-6 : Volume control
- VR502 : Balance control
- VR511-1 ~ VR511-2 : Bass control
- VR512-1 ~ VR512-2 : Treble control

- **Signal line**

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

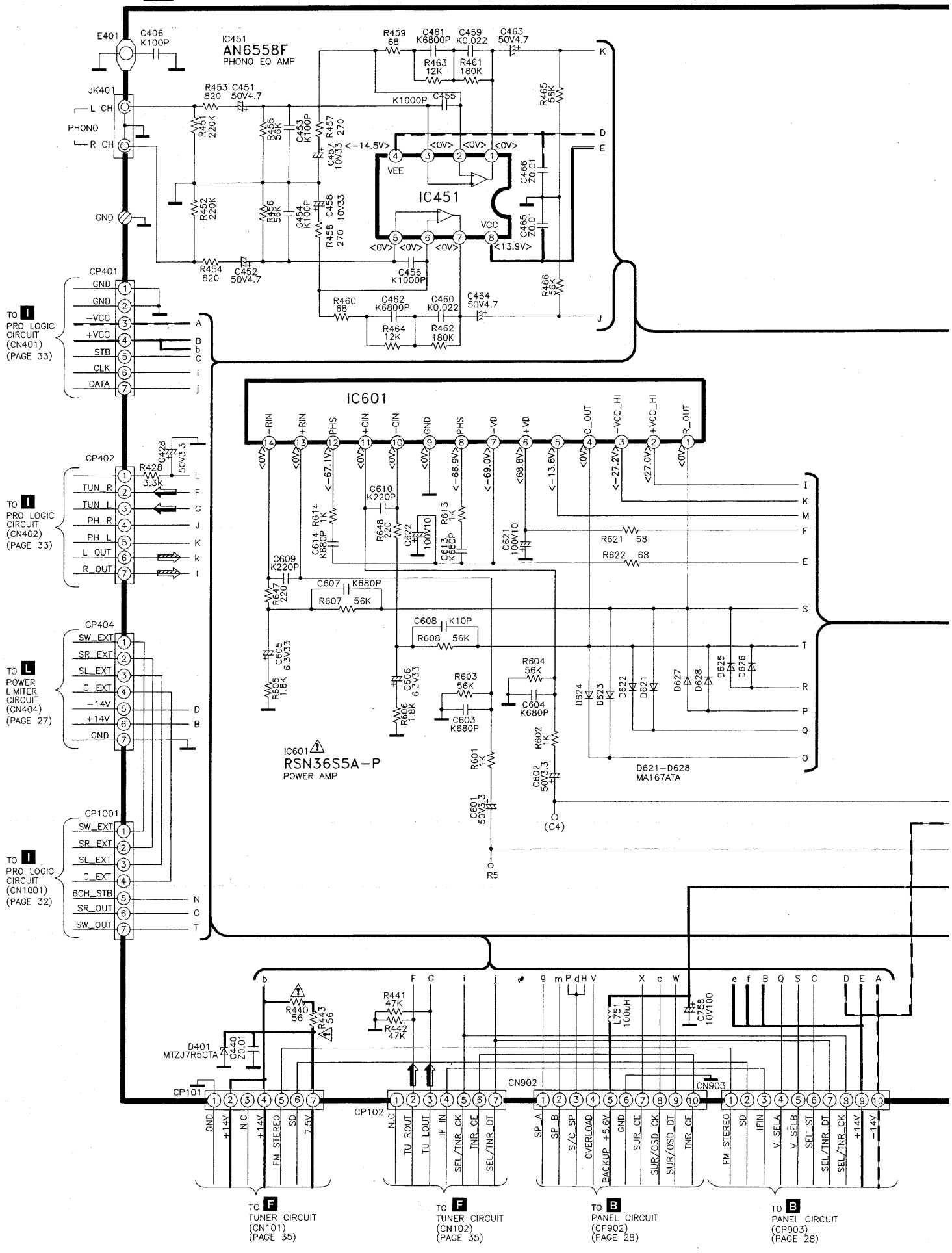
- **Importance safety notice:**
  Components identified by ⚠ mark have special characteristics important for safety. Furthermore, special parts which have purposes of fire retardant (resistors), high-quality sound (capacitors), low-noise (resistors), etc. are used. When replacing any of components, be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

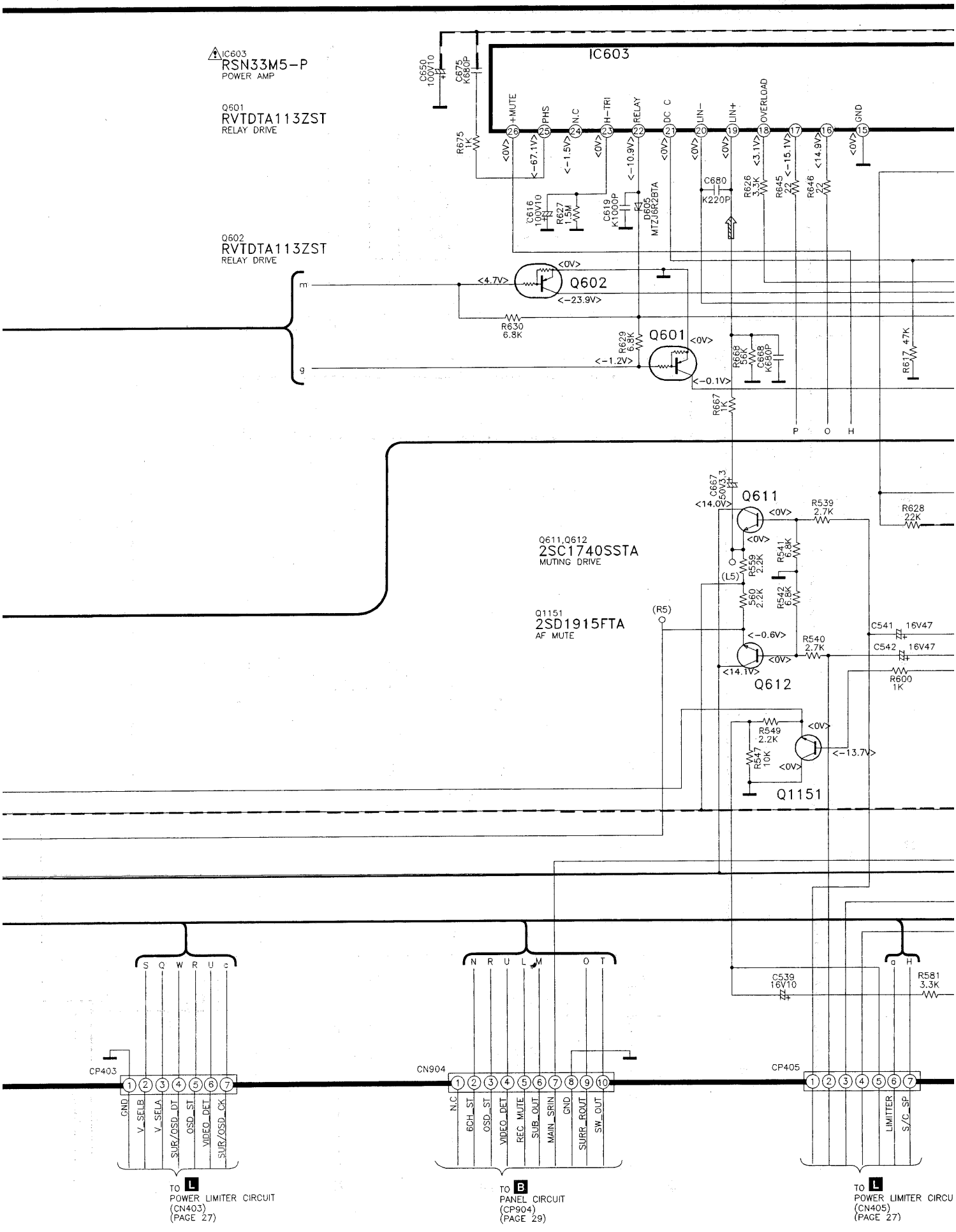
Caution !
IC, LSI and VLSI are sensitive to static electricity.
Secondary trouble can be prevented by taking care during repair.
- Cover the parts boxes made of plastics with aluminium foil.
- Ground the soldenng iron.
- Do not touch the pins of IC, LSI or VLSI with fingers directly.
- Put a conductive mat on the work table.

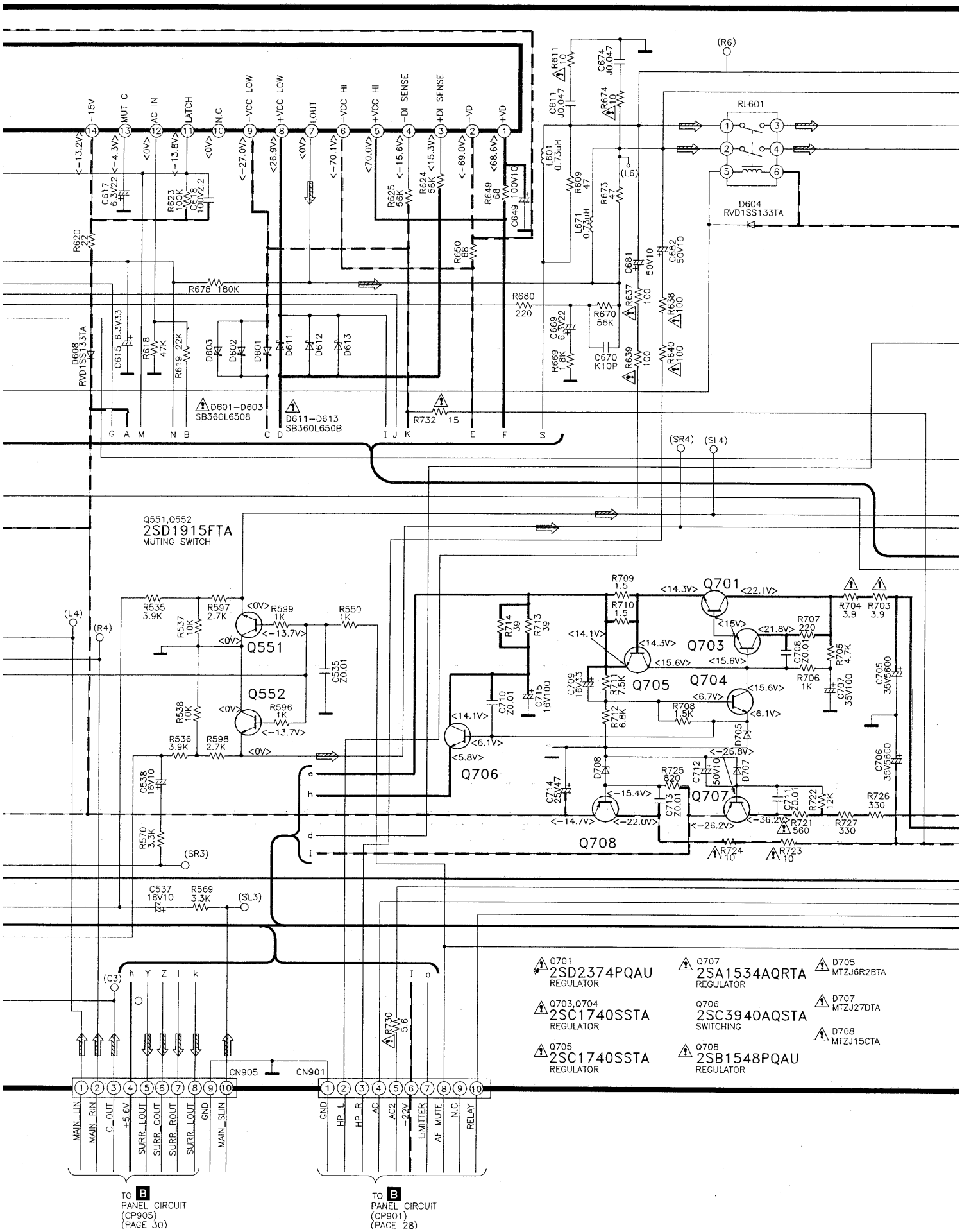
CAUTION: FOR CONTINUED PROTECTION AGAINST FIRE HAZARD, REPLACE ONLY WITH SAME TYPE **F1, F3 & F4 8A 125V FUSE.**

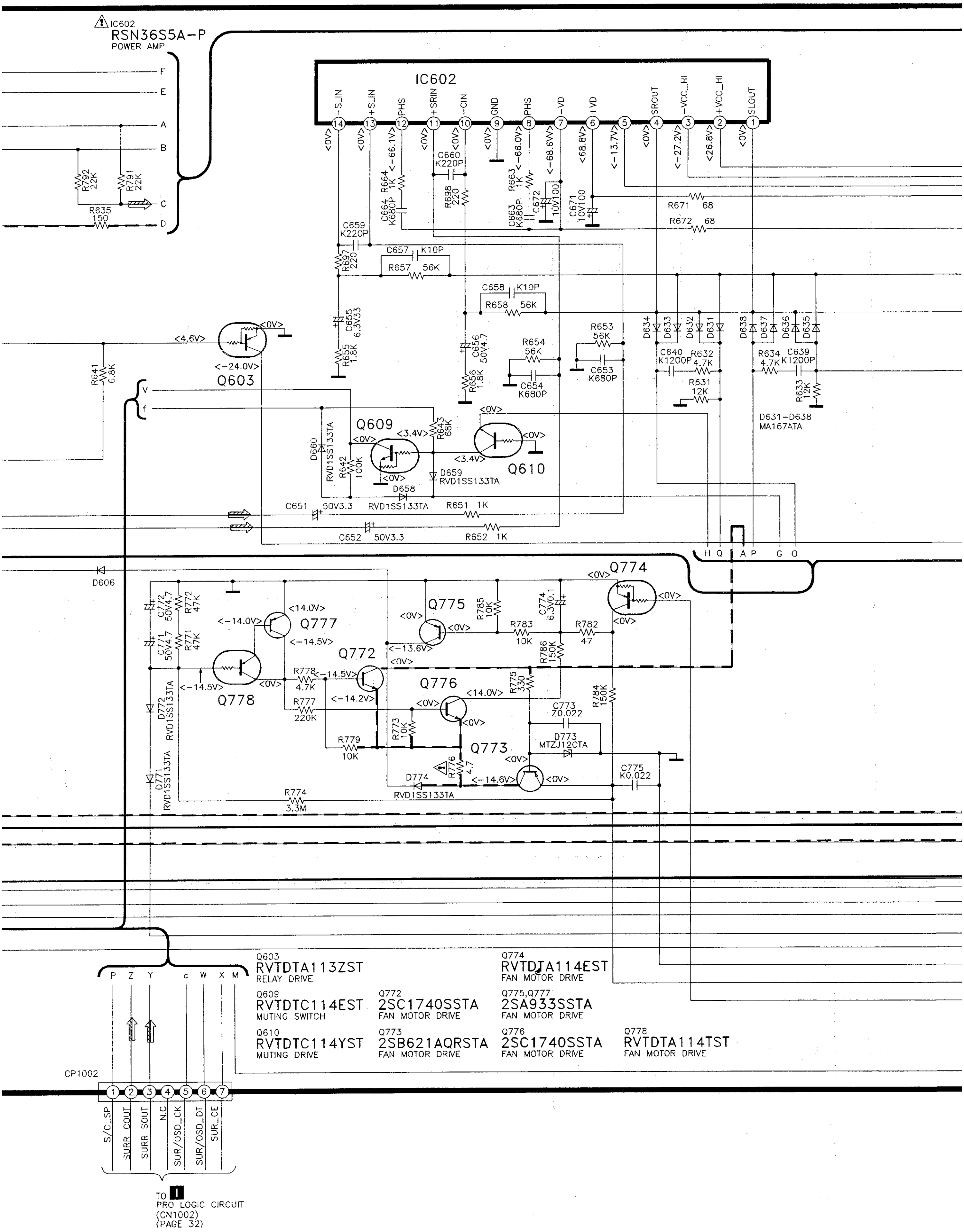
RISK OF FIRE-REPLACE FUSE AS MARKED.

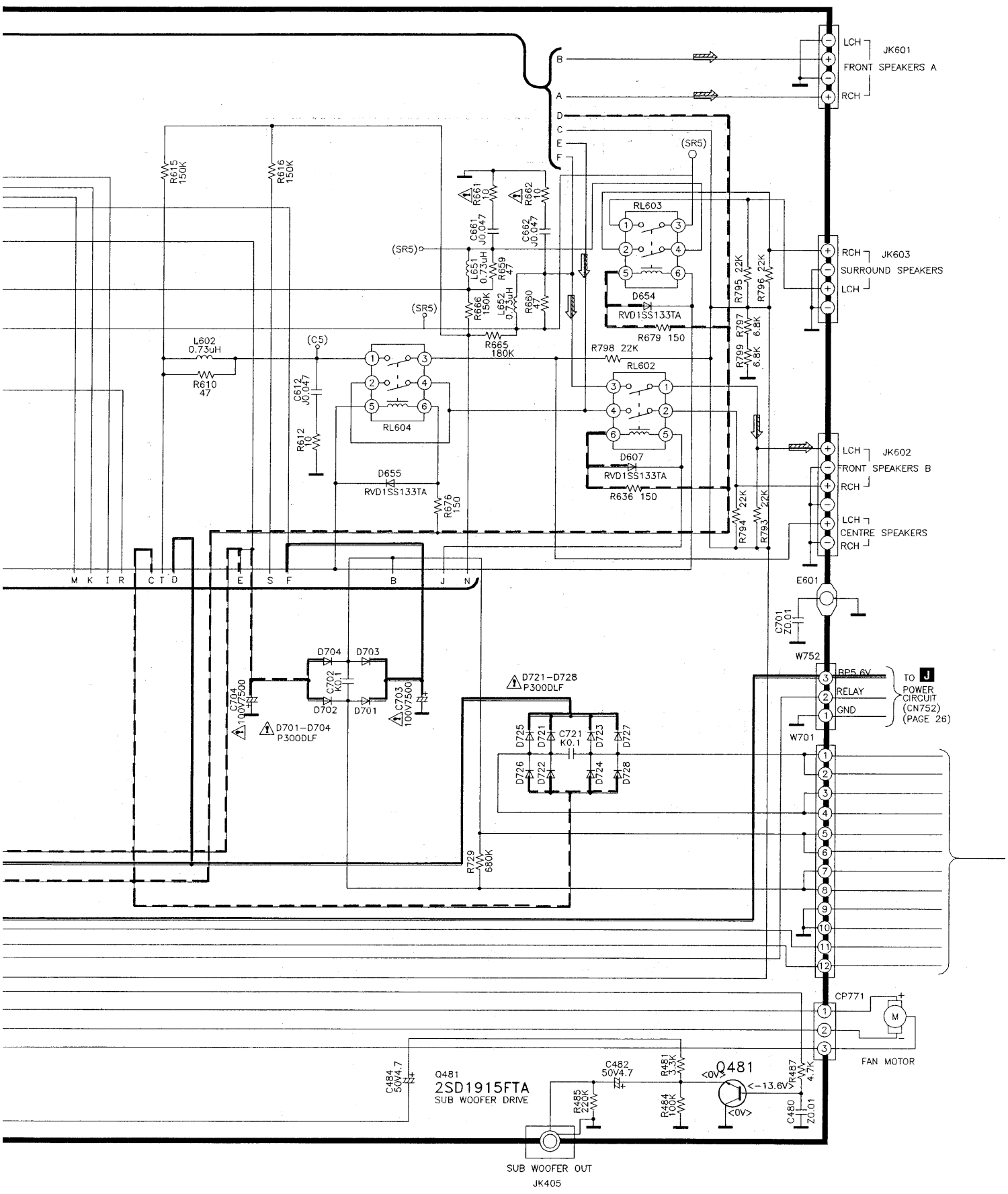
A MAIN CIRCUIT

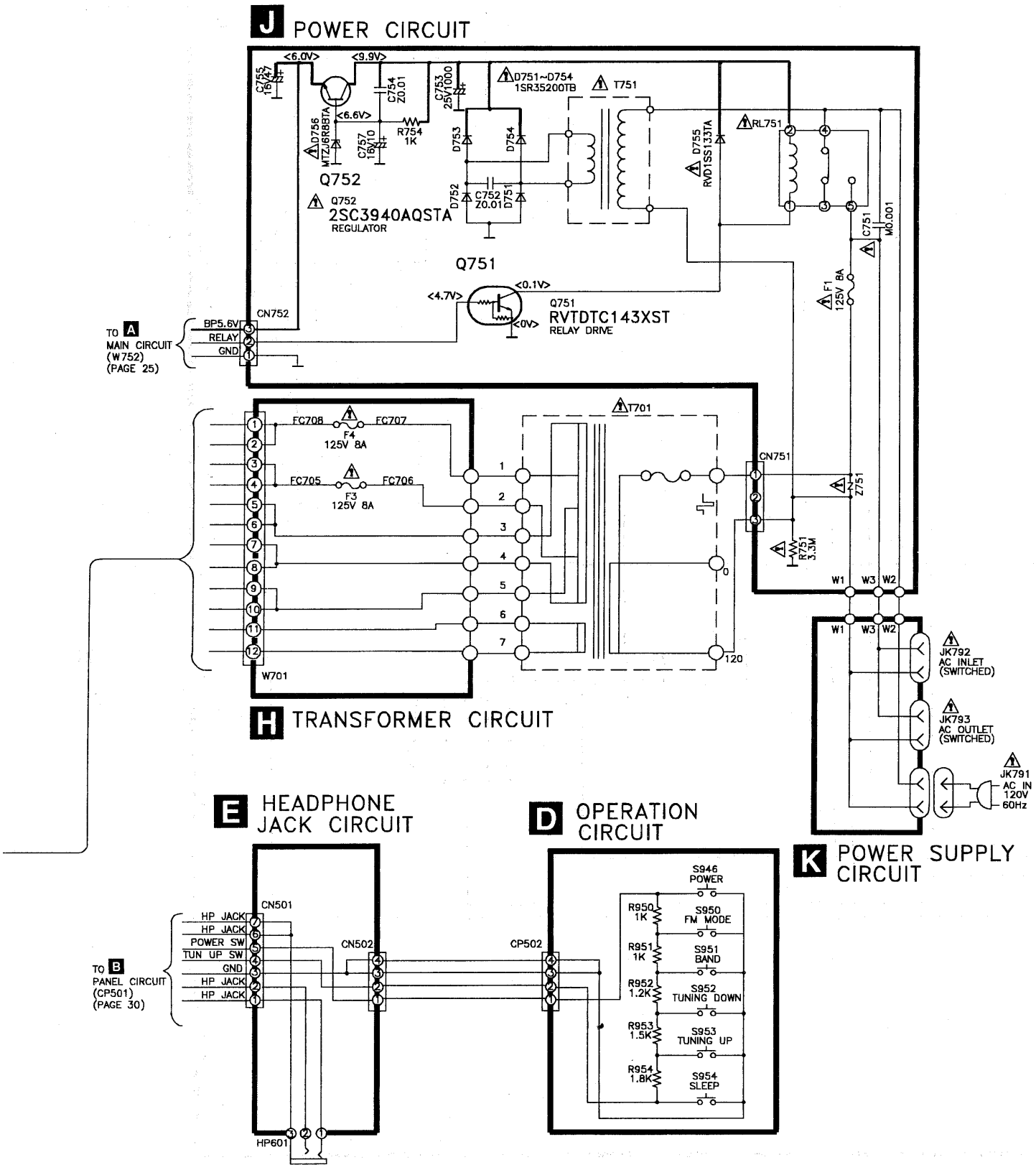



IC603
RSN33M5-P
POWER AMP
Q601
RVTDTA113ZST
RELAY DRIVE
Q602
RVTDTA113ZST
RELAY DRIVE
+MUTE
PHS
N.C
H-TRI
RELAY
DC C
LIN-
LIN+
OVERLOAD
GND
Q602
Q601
Q611
Q612
Q1151
Q611,Q612
2SC1740SSTA
MUTING DRIVE
Q1151
2SD1915FTA
AF MUTE
P O H
CP403
CN904
CP405
GND V_SELB V_SELA SUR/OSD_DT OSD_ST VIDEO_DET SUR/OSD_CK
N.C 6CH_ST OSD_ST VIDEO_DET REC_MUTE SUB_OUT MAIN_SRIN GND SURR_ROUT SW_OUT
LIMITTER S/C_SP
TO L POWER LIMITER CIRCUIT (CN403) (PAGE 27)
TO B PANEL CIRCUIT (CP904) (PAGE 29)
TO L POWER LIMITER CIRCU (CN405) (PAGE 27)

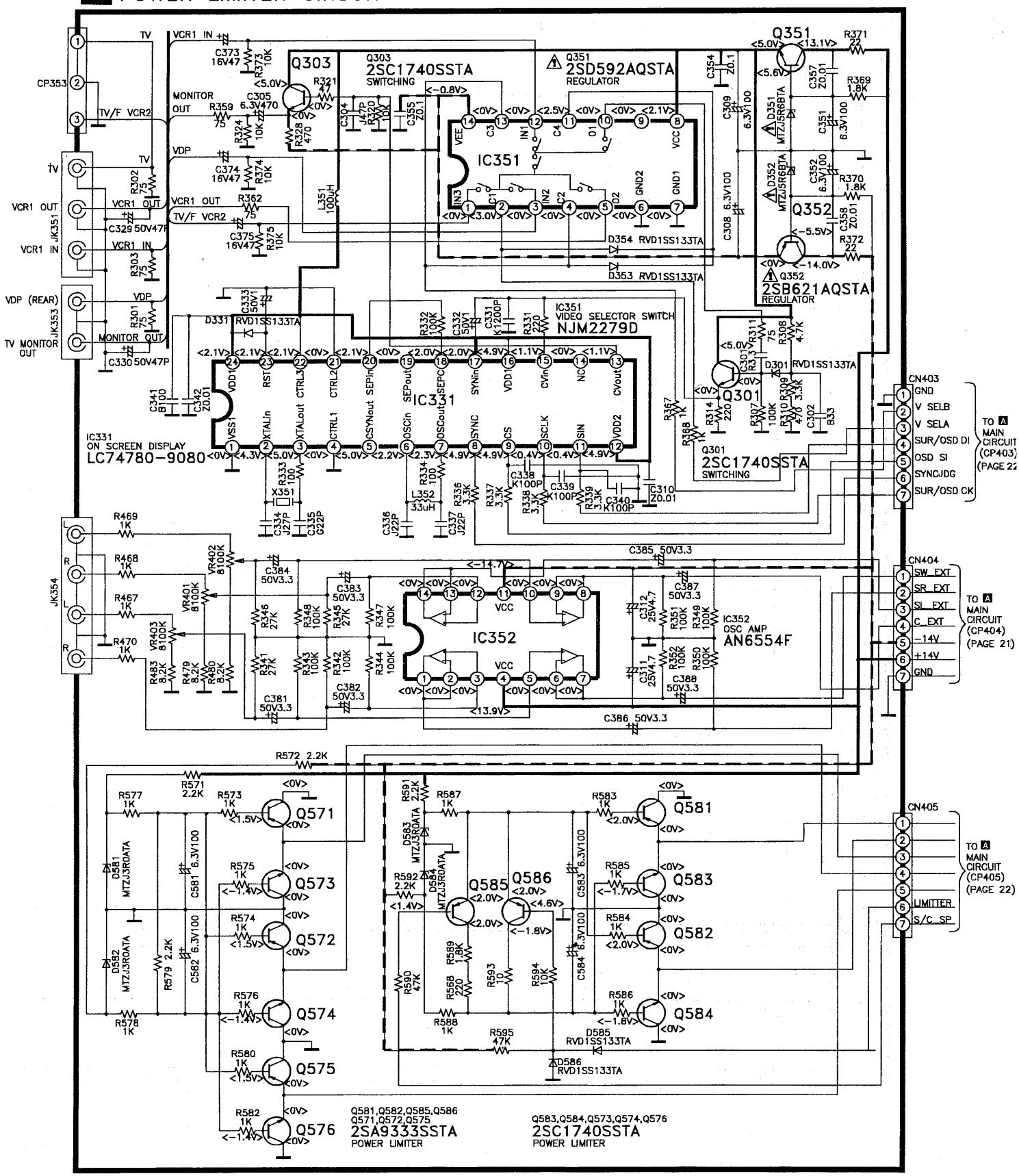

-15V
MUT C
AC IN
LATCH
N.C
-VCC LOW
+VCC LOW
LOUT
-VCC HI
+VCC HI
-DI SENSE
+DI SENSE
-VD
+VD
RL601
D604
RVD1SS133TA
D608
RVD1SS133TA
D601-D603
SB360L6508
D611-D613
SB360L650B
R732 15
G A M N B C D I J K E F S
(R6)
(L6)
(SR4)
(SL4)
(L4)
(R4)
(SR3)
(SL3)
(C3)
Q551,Q552
2SD1915FTA
MUTING SWITCH
Q551
Q552
Q701
Q703
Q704
Q705
Q706
Q707
Q708
CN905
CN901
MAIN_LIN
MAIN_RIN
C_OUT
+5.6V
SURR_LOUT
SURR_COUT
SURR_ROUT
SURR_LOUT
GND
MAIN_SLIN
GND
HP_L
HP_R
AC
AC2
-22V
LIMITTER
AF MUTE
N.C
RELAY
TO B PANEL CIRCUIT (CP905) (PAGE 30)
TO B PANEL CIRCUIT (CP901) (PAGE 28)
Q701 2SD2374PQAU REGULATOR
Q703,Q704 2SC1740SSTA REGULATOR
Q705 2SC1740SSTA REGULATOR
Q707 2SA1534AQRTA REGULATOR
Q706 2SC3940AQSTA SWITCHING
Q708 2SB1548PQAU REGULATOR
D705 MTZJ6R2BTA
D707 MTZJ27DTA
D708 MTZJ15CTA


IC602
RSN36S5A-P
POWER AMP
IC602
-SLIN
+SLIN
PHS
+SRIN
-CIN
GND
PHS
-VD
+VD
SROUT
-VCC_HI
+VCC_HI
SLOUT
Q603
Q609
Q610
Q772
Q773
Q774
Q775
Q776
Q777
Q778
D631-D638
MA167ATA
Q603
RVTDTA113ZST
RELAY DRIVE
Q609
RVTDTC114EST
MUTING SWITCH
Q610
RVTDTC114YST
MUTING DRIVE
Q772
2SC1740SSTA
FAN MOTOR DRIVE
Q773
2SB621AQRSTA
FAN MOTOR DRIVE
Q774
RVTDTA114EST
FAN MOTOR DRIVE
Q775,Q777
2SA933SSTA
FAN MOTOR DRIVE
Q776
2SC1740SSTA
FAN MOTOR DRIVE
Q778
RVTDTA114TST
FAN MOTOR DRIVE
CP1002
S/C_SP
SURR COUT
SURR SOUT
N.C
SUR/OSD_CK
SUR/OSD_DT
SUR_CE
TO I PRO LOGIC CIRCUIT
(CN1002)
(PAGE 32)

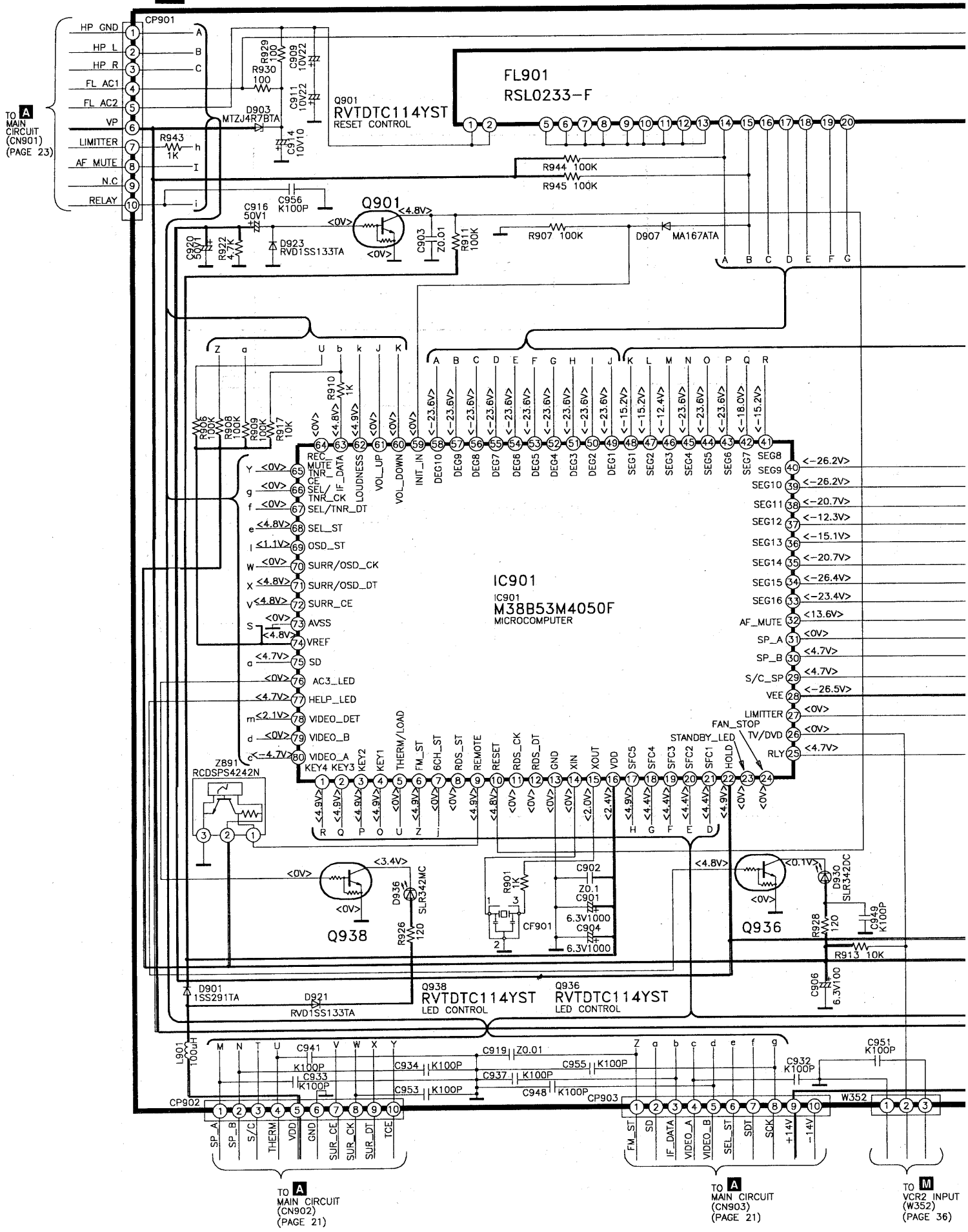

JK601
FRONT SPEAKERS A
LCH
RCH
JK603
SURROUND SPEAKERS
JK602
FRONT SPEAKERS B
CENTRE SPEAKERS
RL603
RL602
RL604
D654
RVD1SS133TA
D607
D655
L602 0.73uH
R610 47
R615 150K
R616 150K
R665 180K
R679 150
R636 150
R798 22K
R795 22K
R796 22K
R797 6.8K
R799 6.8K
R794 22K
R793 22K
R676 150
C612 J0.047
R612 10
C661 J0.047
C662 J0.047
L651 0.73uH
L652 0.73uH
R659 47
R660 47
R666 150K
R661 10
R662 10
(SR5)
(C5)
E601
W752
W701
TO J
POWER CIRCUIT (CN752) (PAGE 26)
BP5.6V
RELAY
GND
C701 Z0.01
D704
D703
D702
D701
C702 K0.1
C704 100V7500
C703 100V7500
D701–D704 P300DLF
D721–D728 P300DLF
D721
D722
D723
D724
D725
D726
D727
D728
C721 K0.1
R729 680K
CP771
FAN MOTOR
Q481
2SD1915FTA
SUB WOOFER DRIVE
C484 50V4.7
C482 50V4.7
R481 3.3K
R484 100K
R485 220K
VR487 4.7K
C480 Z0.01
<0V>
<-13.6V
SUB WOOFER OUT
JK405
M K I R C T D E S F B J N

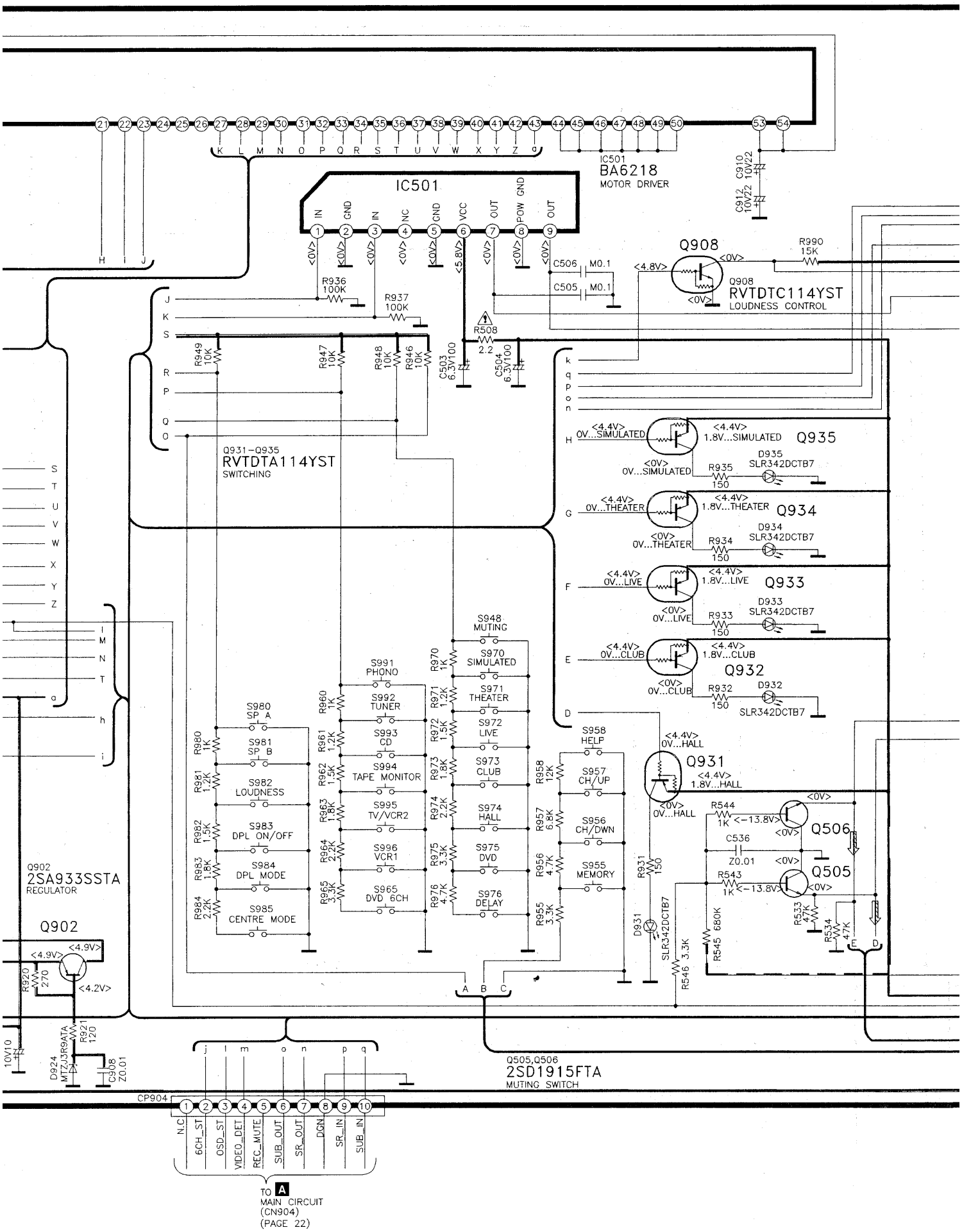

J POWER CIRCUIT
<6.0V>
<9.9V>
<6.6V>
D751~D754
1SR35200TB
T751
RL751
Q752
2SC3940AQSTA
REGULATOR
Q751
RVTDTC143XST
RELAY DRIVE
<4.7V>
<0.1V>
<0V>
CN752
BP5.6V
RELAY
GND
TO A
MAIN CIRCUIT
(W752)
(PAGE 25)
F1
125V 8A
F4
125V 8A
F3
125V 8A
T701
CN751
W701
W1
W3
W2
H TRANSFORMER CIRCUIT
JK792
AC INLET
(SWITCHED)
JK793
AC OUTLET
(SWITCHED)
JK791
AC IN
120V
60Hz
K POWER SUPPLY CIRCUIT
E HEADPHONE
JACK CIRCUIT
D OPERATION
CIRCUIT
CN501
CN502
CP502
HP JACK
HP JACK
POWER SW
TUN UP SW
GND
HP JACK
HP JACK
TO B
PANEL CIRCUIT
(CP501)
(PAGE 30)
HP601
S946
POWER
S950
FM MODE
S951
BAND
S952
TUNING DOWN
S953
TUNING UP
S954
SLEEP
R950
1K
R951
1K
R952
1.2K
R953
1.5K
R954
1.8K

L POWER LIMITER CIRCUIT

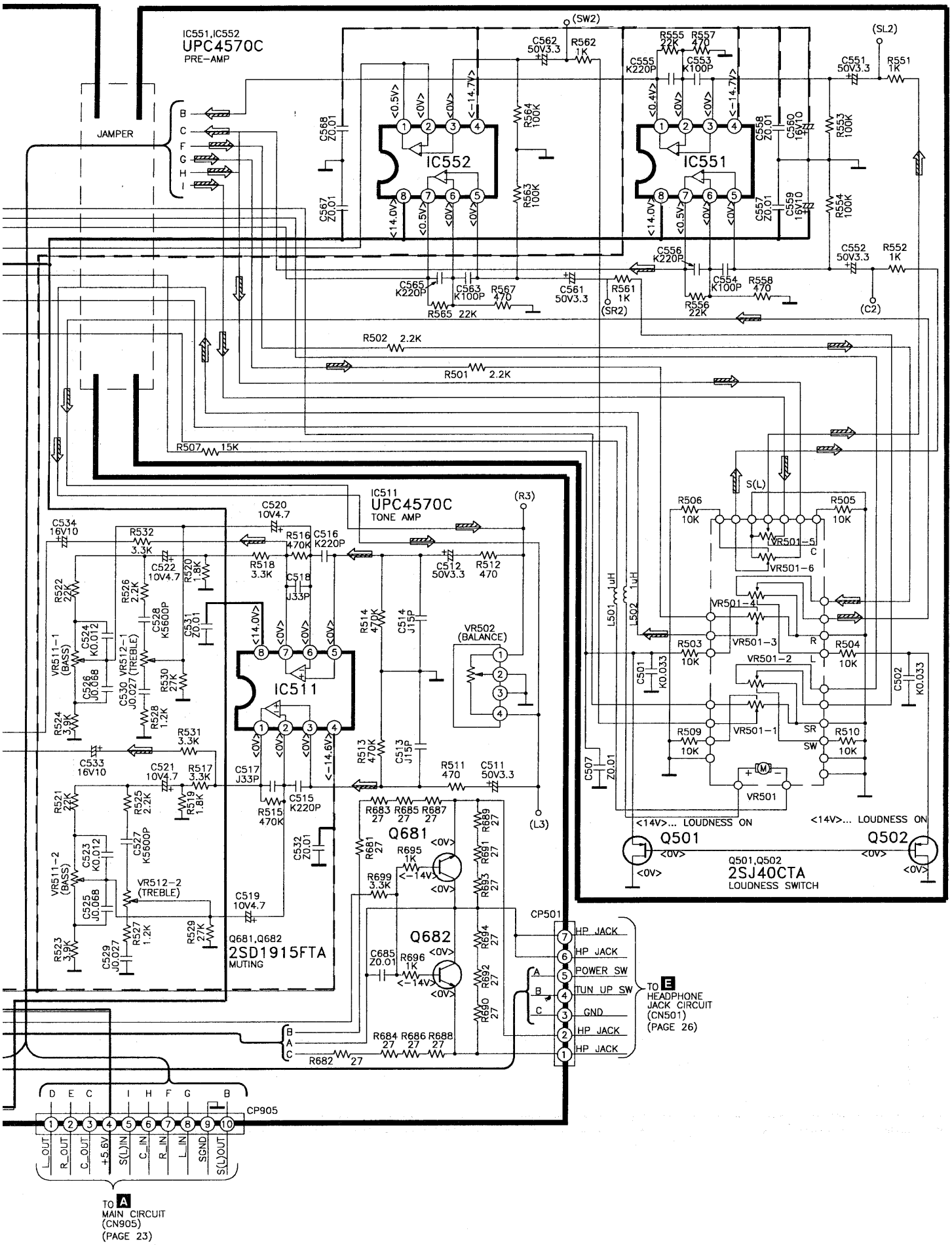


B PANEL CIRCUIT

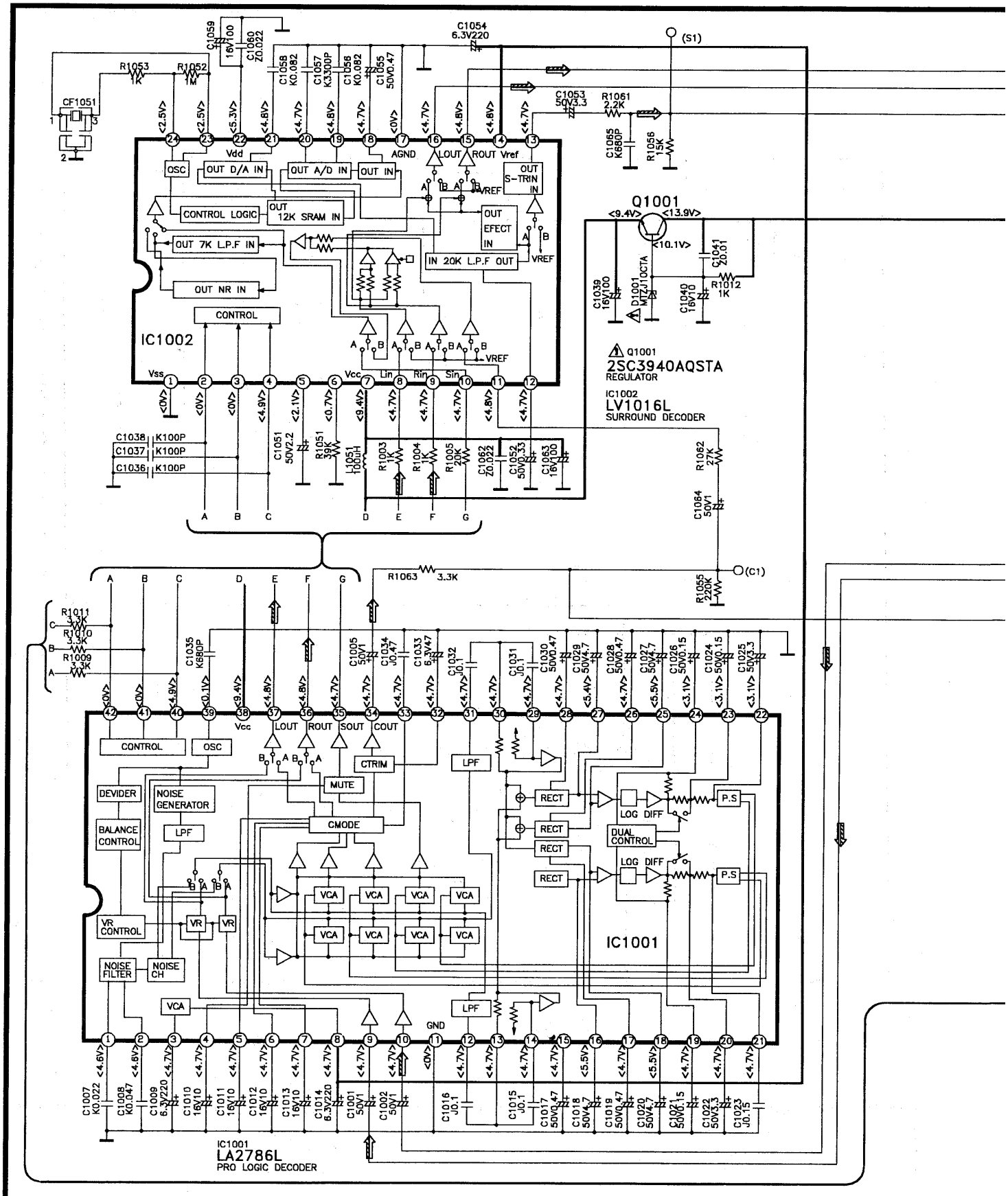


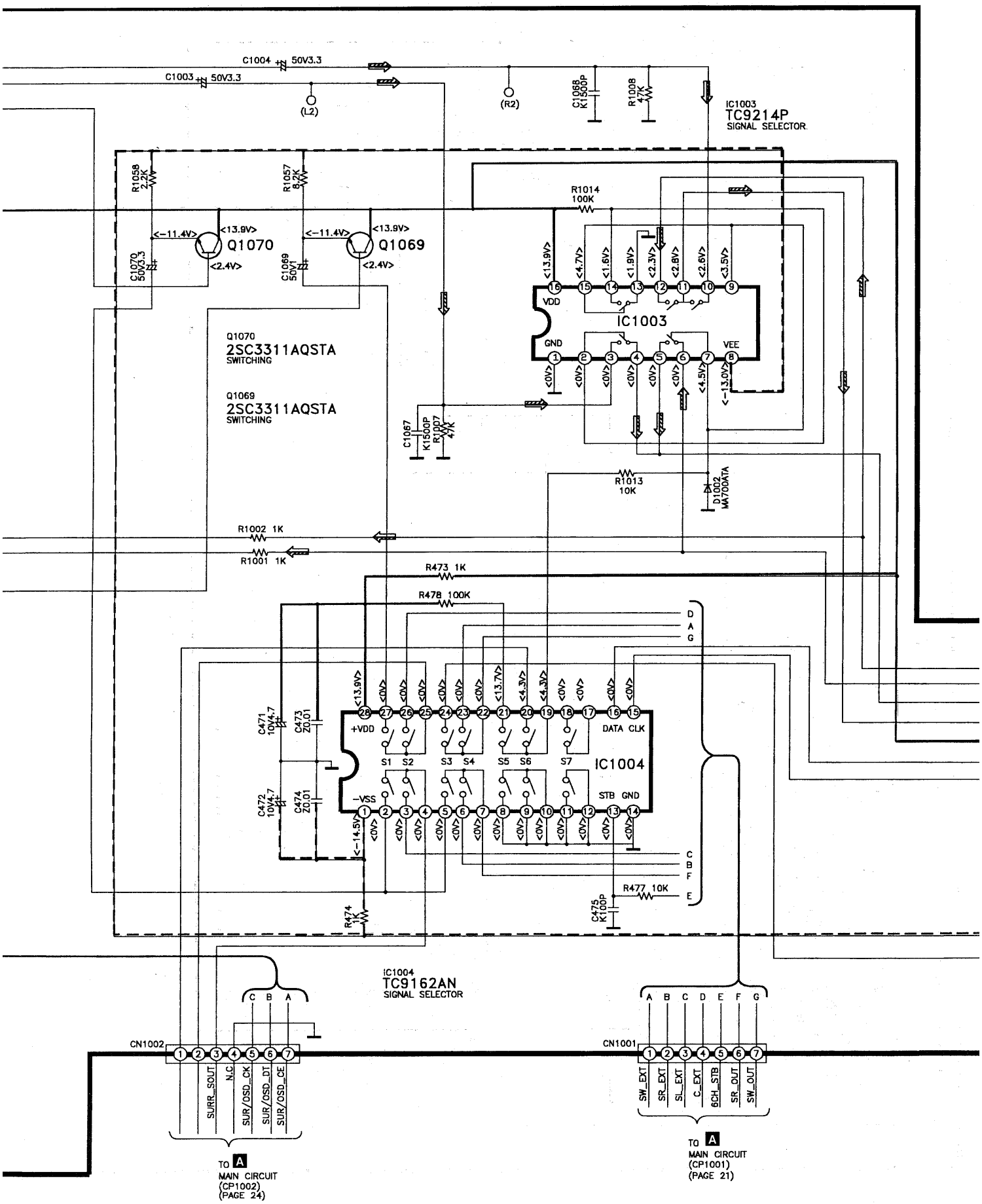

IC501
BA6218
MOTOR DRIVER
IN
GND
IN
NC
GND
VCC
OUT
POW GND
OUT
Q908
RVTDTC114YST
LOUDNESS CONTROL
Q931–Q935
RVTDTA114YST
SWITCHING
Q935
Q934
Q933
Q932
Q931
Q506
Q505
Q902
2SA933SSTA
REGULATOR
Q505,Q506
2SD1915FTA
MUTING SWITCH
S948 MUTING
S970 SIMULATED
S971 THEATER
S972 LIVE
S973 CLUB
S974 HALL
S975 DVD
S976 DELAY
S980 SP A
S981 SP B
S982 LOUDNESS
S983 DPL ON/OFF
S984 DPL MODE
S985 CENTRE MODE
S991 PHONO
S992 TUNER
S993 CD
S994 TAPE MONITOR
S995 TV/VCR2
S996 VCR1
S965 DVD 6CH
S958 HELP
S957 CH/UP
S956 CH/DWN
S955 MEMORY
CP904
N.C
6CH_ST
OSD_ST
VIDEO_DET
REC_MUTE
SUB_OUT
SR_OUT
DGN
SR_IN
SUB_IN
TO A
MAIN CIRCUIT
(CN904)
(PAGE 22)

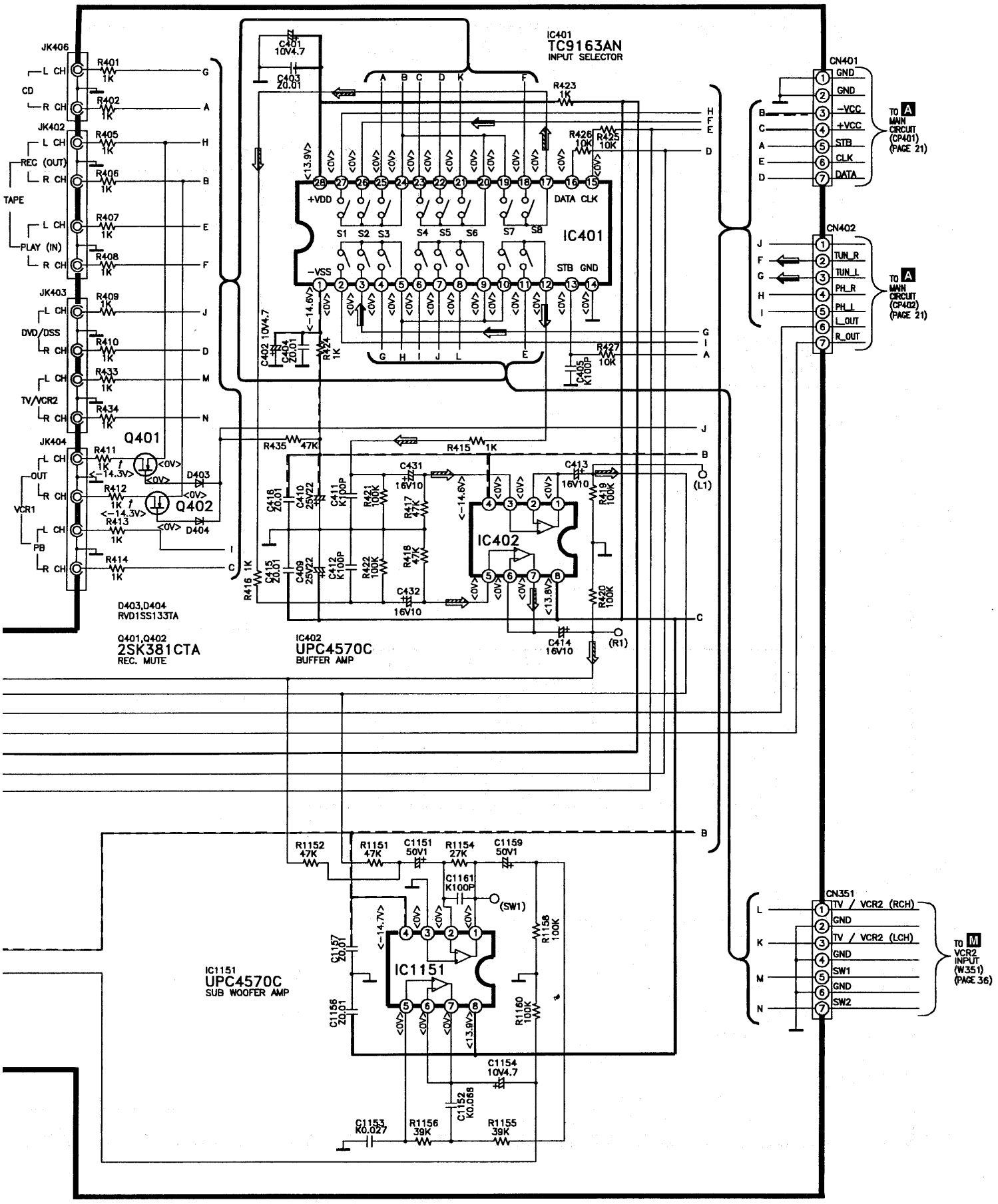
C VOLUME CIRCUIT

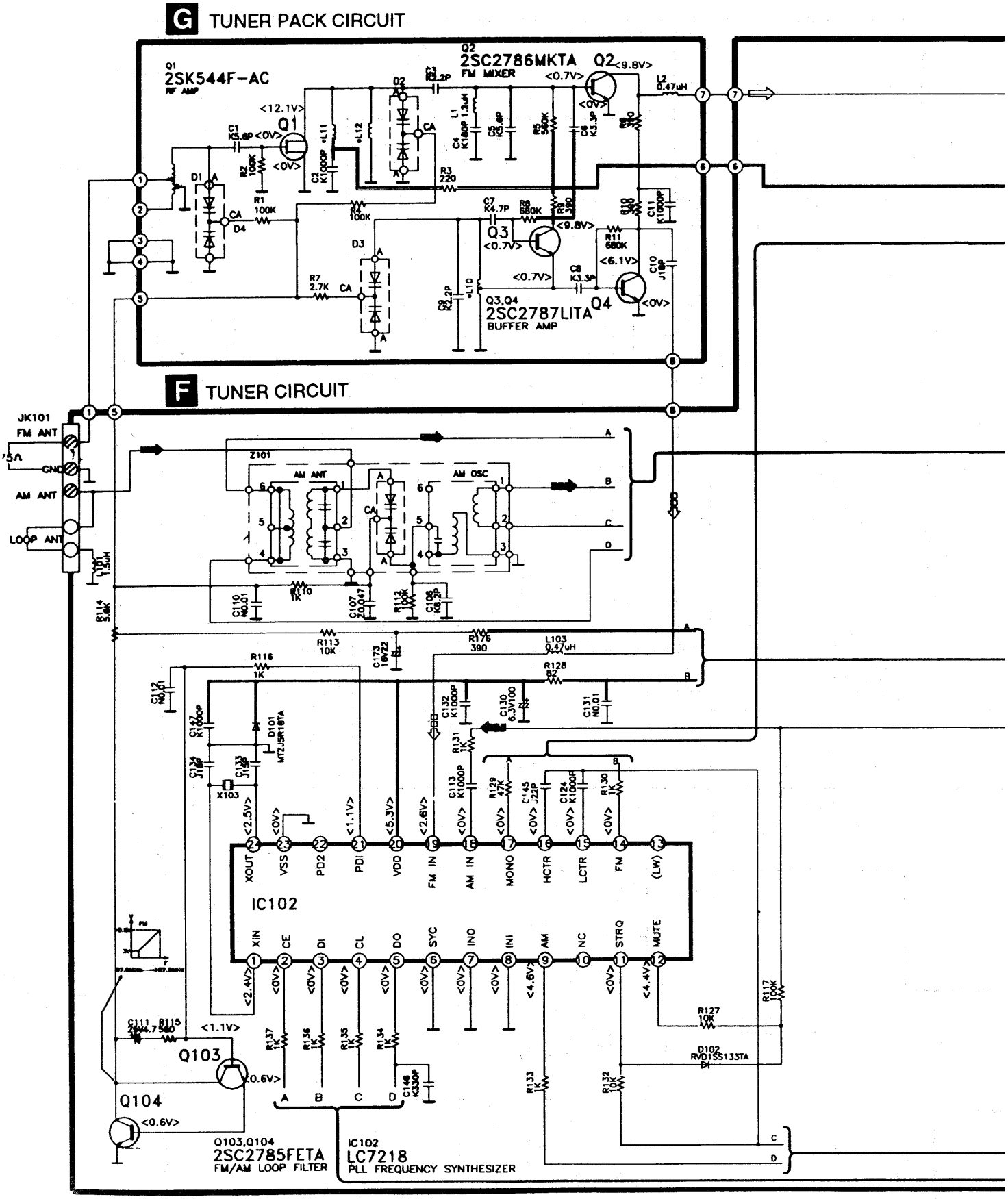


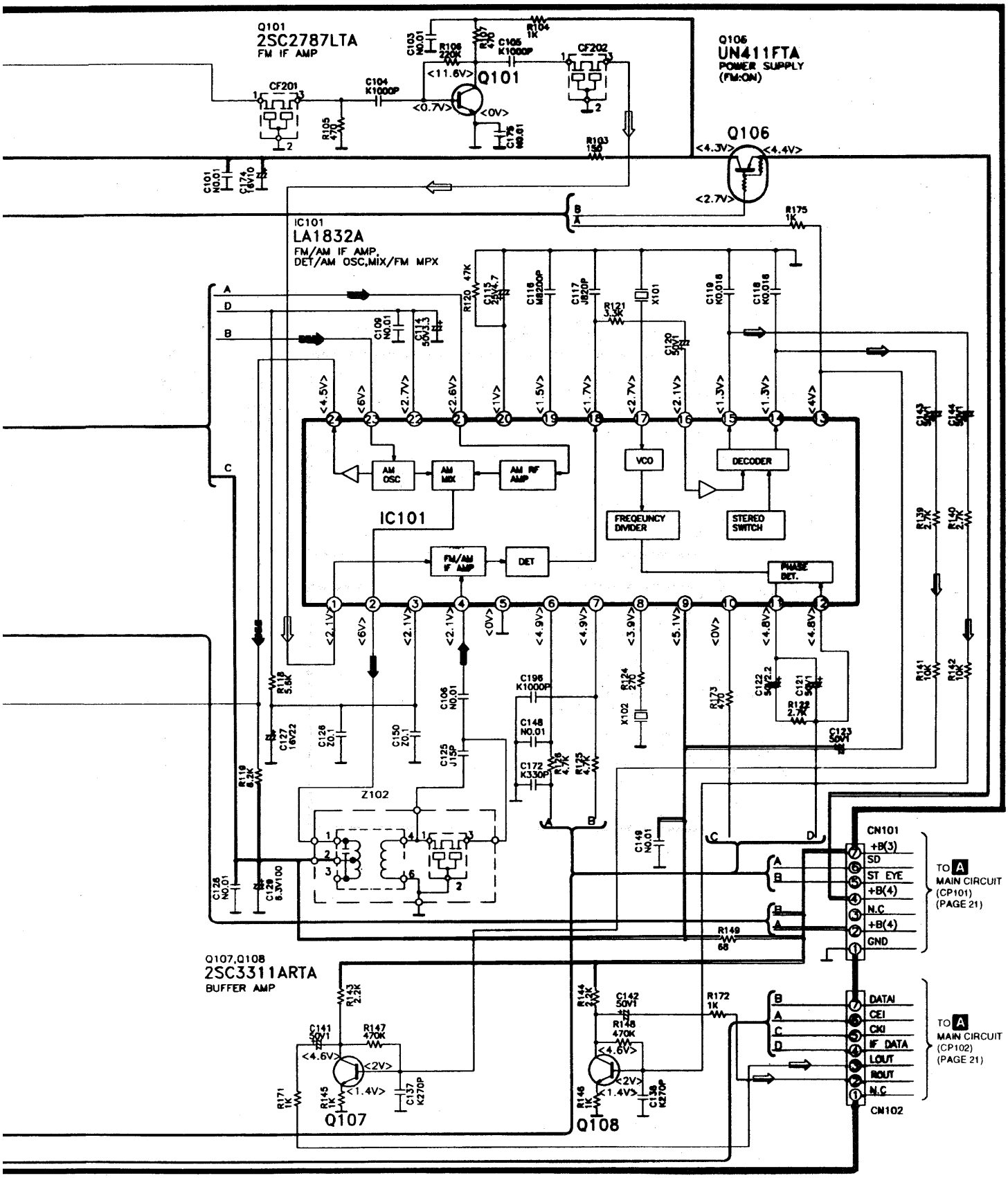
I PRO LOGIC CIRCUIT

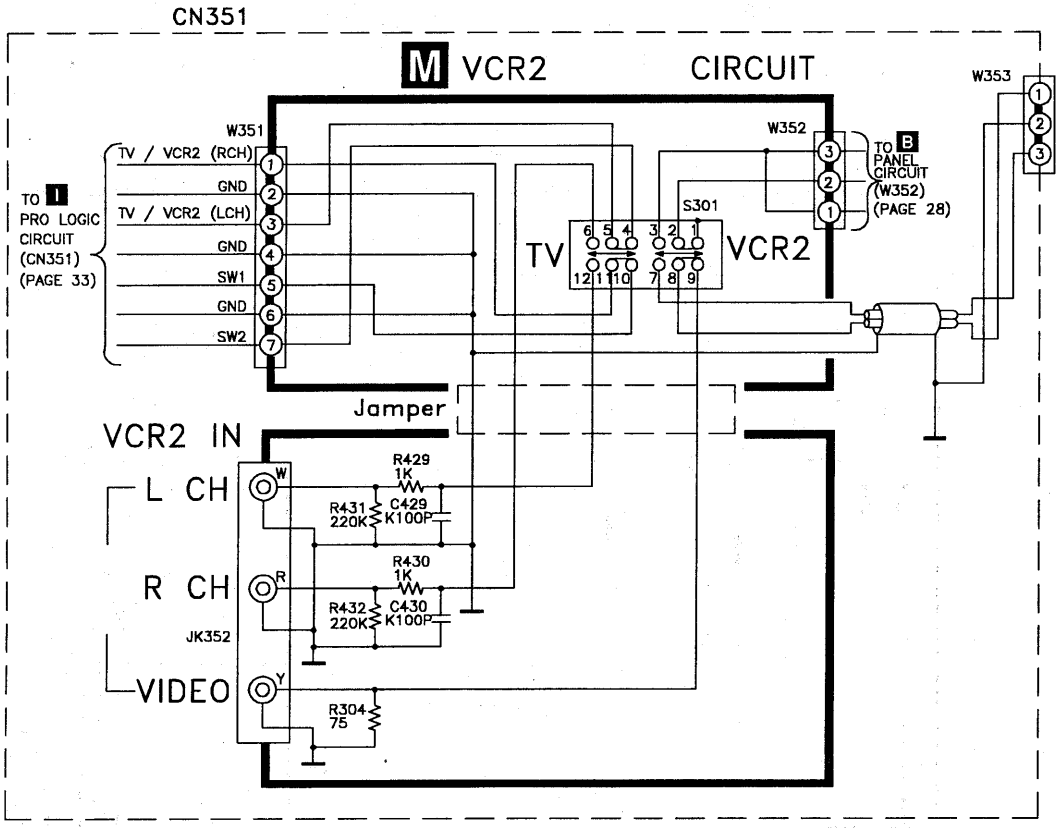



C1004 50V3.3
C1003 50V3.3
(L2)
(R2)
C1068 K1500P
R1008 47K
IC1003
TC9214P
SIGNAL SELECTOR
R1058 2.2K
R1057 8.2K
R1014 100K
<-11.4V>
<13.9V>
Q1070
<2.4V>
C1070 50V3.3
C1069 50V1
Q1069
VDD
GND
VEE
IC1003
Q1070
2SC3311AQSTA
SWITCHING
Q1069
2SC3311AQSTA
SWITCHING
C1067 K1500P
R1007 47K
R1013 10K
D1002 MA700ATA
R1002 1K
R1001 1K
R473 1K
R478 100K
D
A
G
C471 10/4.7
C473 Z0.01
C472 10/4.7
C474 Z0.01
+VDD
DATA CLK
S1 S2 S3 S4 S5 S6 S7
IC1004
-VSS
STB GND
<-14.5V>
C
B
F
E
R477 10K
C475 K100P
R474 1K
IC1004
TC9162AN
SIGNAL SELECTOR
CN1002
C B A
SURR_SOUT
N.C
SUR/OSD_CK
SUR/OSD_DT
SUR/OSD_CE
TO A
MAIN CIRCUIT
(CP1002)
(PAGE 24)
CN1001
A B C D E F G
SW_EXT
SR_EXT
SL_EXT
C_EXT
6CH_STB
SR_OUT
SW_OUT
TO A
MAIN CIRCUIT
(CP1001)
(PAGE 21)


IC401
TC9163AN
INPUT SELECTOR
IC401
IC402
IC1151
Q401
Q402
D403,D404
RVD1SS133TA
Q401,Q402
2SK381CTA
REC. MUTE
IC402
UPC4570C
BUFFER AMP
IC1151
UPC4570C
SUB WOOFER AMP
CN401
CN402
CN351
TO A MAIN CIRCUIT (CP401) (PAGE 21)
TO A MAIN CIRCUIT (CP402) (PAGE 21)
TO M VCR2 INPUT (W351) (PAGE 36)

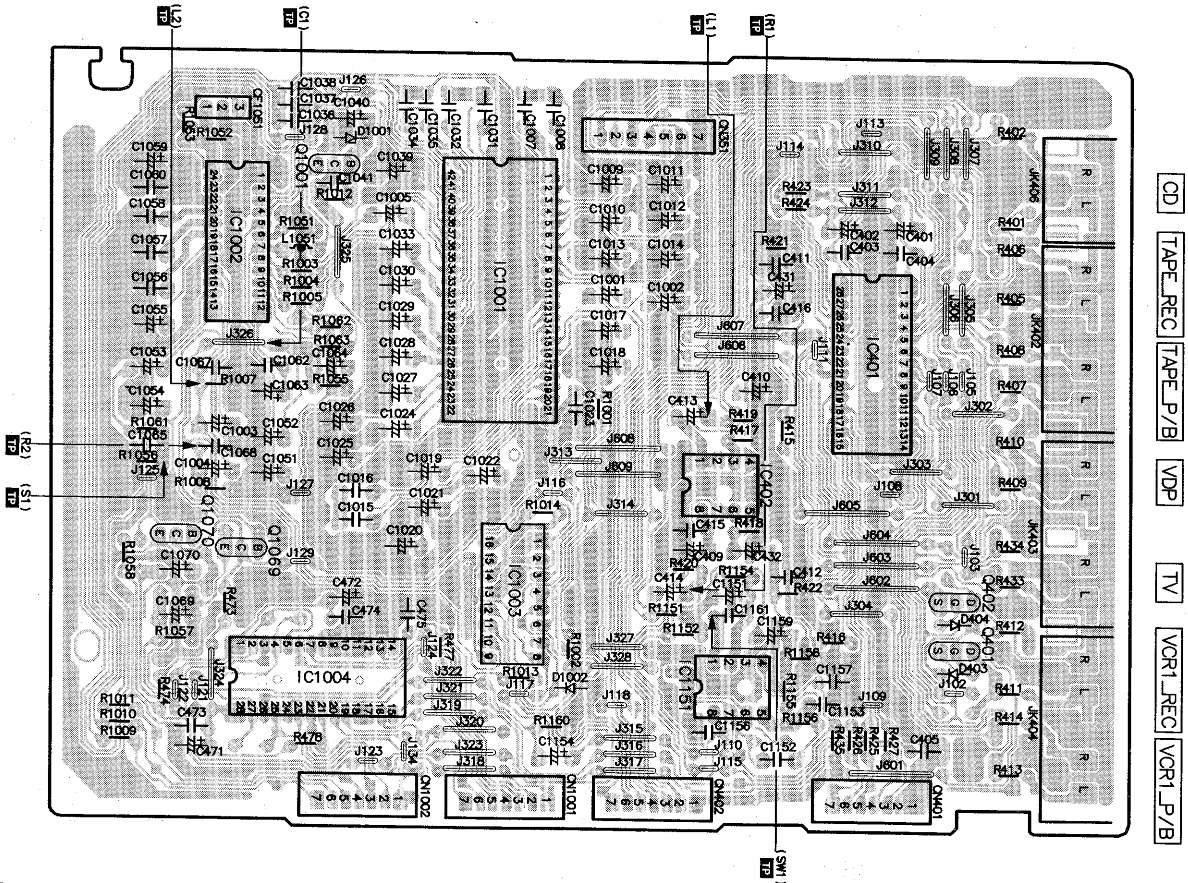

G TUNER PACK CIRCUIT
Q1
2SK544F-AC
RF AMP
Q2
2SC2786MKTA
FM MIXER
Q2 <9.8V>
<12.1V>
Q1
<0V>
<0.7V>
Q3
<0.7V>
<9.8V>
<6.1V>
Q4
<0V>
Q3,Q4
2SC2787LITA
BUFFER AMP
F TUNER CIRCUIT
JK101
FM ANT
GND
AM ANT
LOOP ANT
Z101
AM ANT
AM OSC
IC102
XOUT
VSS
PD2
PDI
VDD
FM IN
AM IN
MONO
HCTR
LCTR
FM
(LW)
XIN
CE
DI
CL
DO
SYC
INO
INI
AM
NC
STRQ
MUTE
Q103
Q104
<0.6V>
<1.1V>
Q103,Q104
2SC2785FETA
FM/AM LOOP FILTER
IC102
LC7218
PLL FREQUENCY SYNTHESIZER
D102
RVD1SS133TA


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 A MAIN CIRCUIT (CP101) (PAGE 21)
DATAI
CEI
CKI
IF DATA
LOUT
ROUT
N.C
CN102
TO A MAIN CIRCUIT (CP102) (PAGE 21)

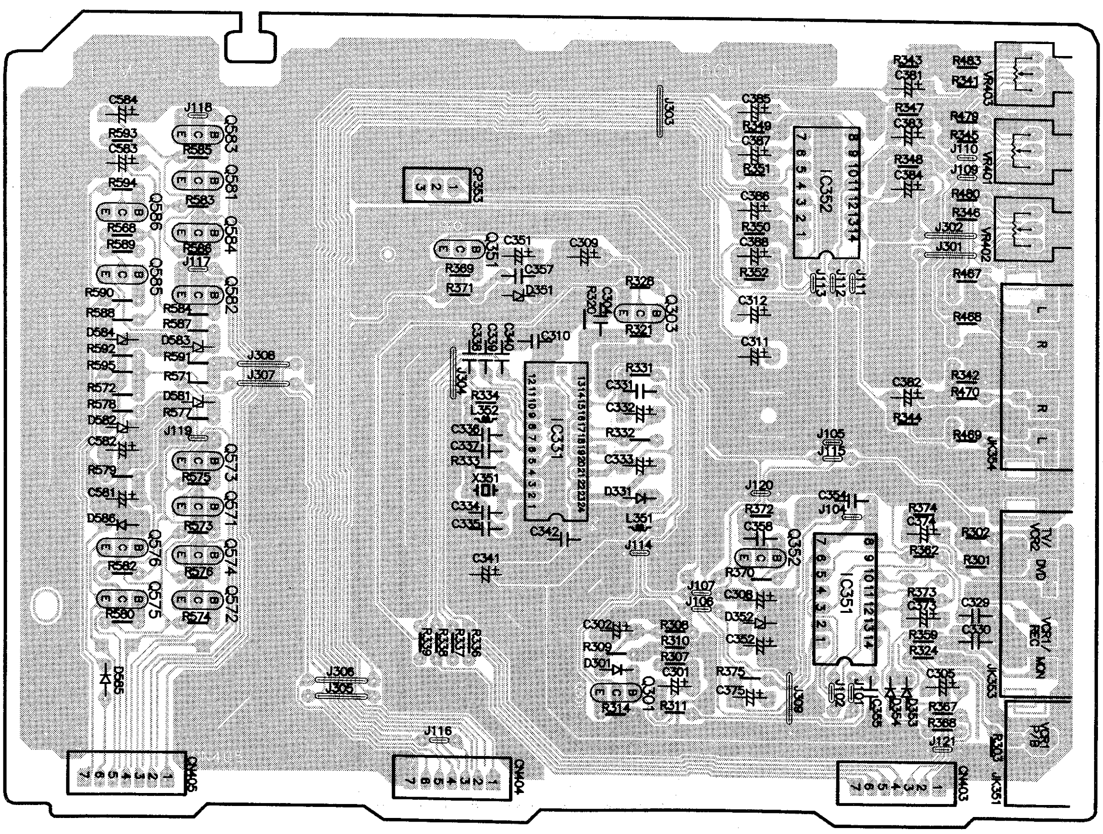

CN351
M VCR2 CIRCUIT
W351
TV / VCR2 (RCH)
GND
TV / VCR2 (LCH)
GND
SW1
GND
SW2
TO I PRO LOGIC CIRCUIT (CN351) (PAGE 33)
W352
TO B PANEL CIRCUIT (W352) (PAGE 28)
W353
S301
TV
VCR2
Jamper
VCR2 IN
L CH
R CH
VIDEO
JK352
R429 1K
R431 220K
C429 K100P
R430 1K
R432 220K
C430 K100P
R304 75

■ Printed Circuit Board

I PRO LOGIC P.C.B. (REP2443E-P)

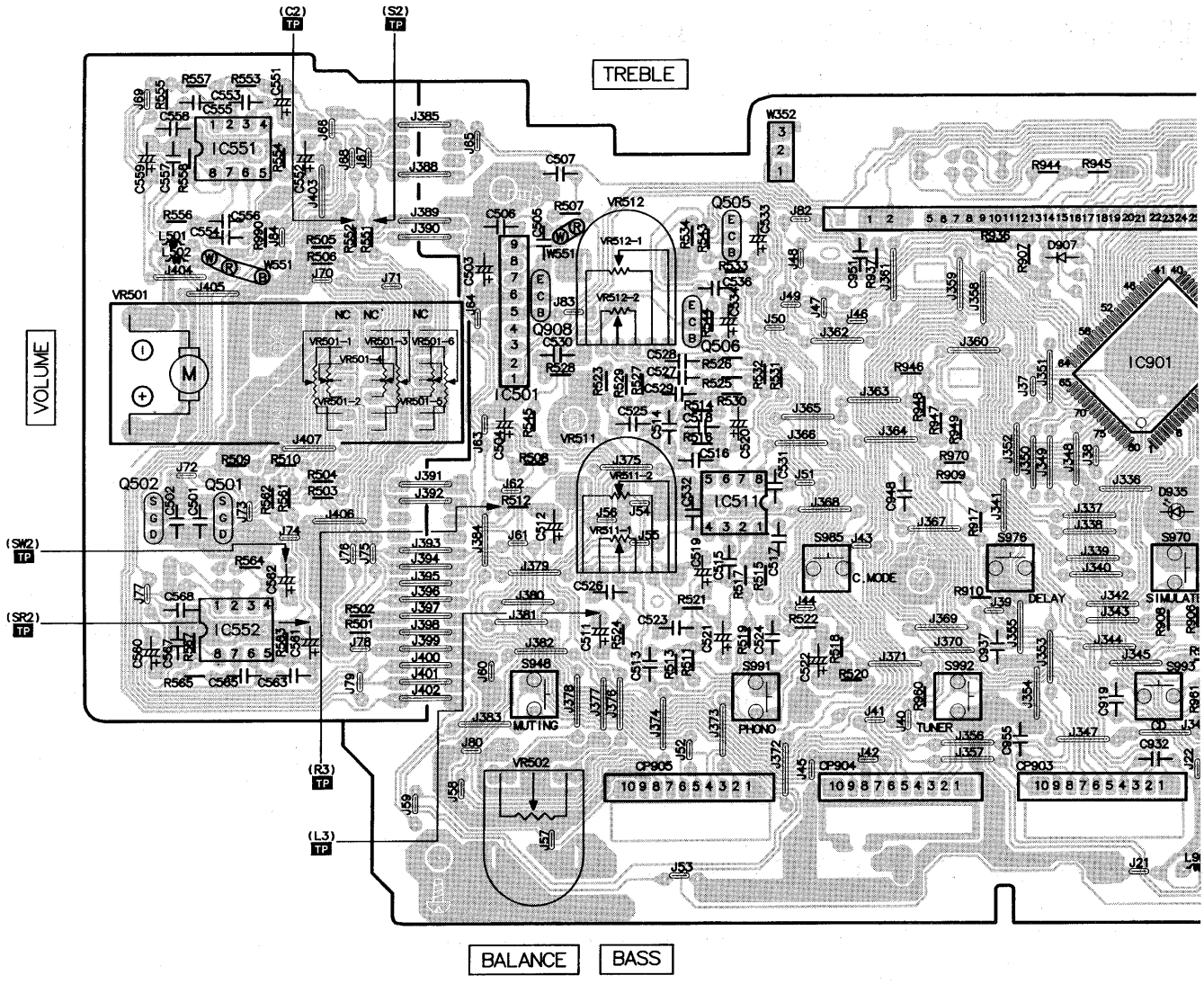


L POWER LIMITER P.C.B. (REP2466A-T)

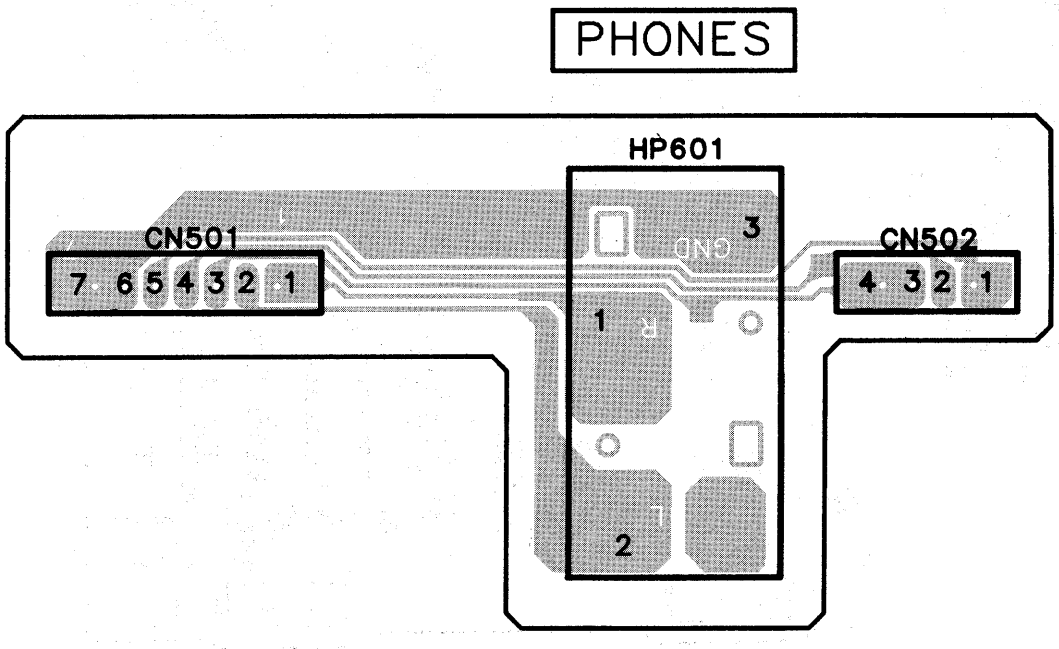


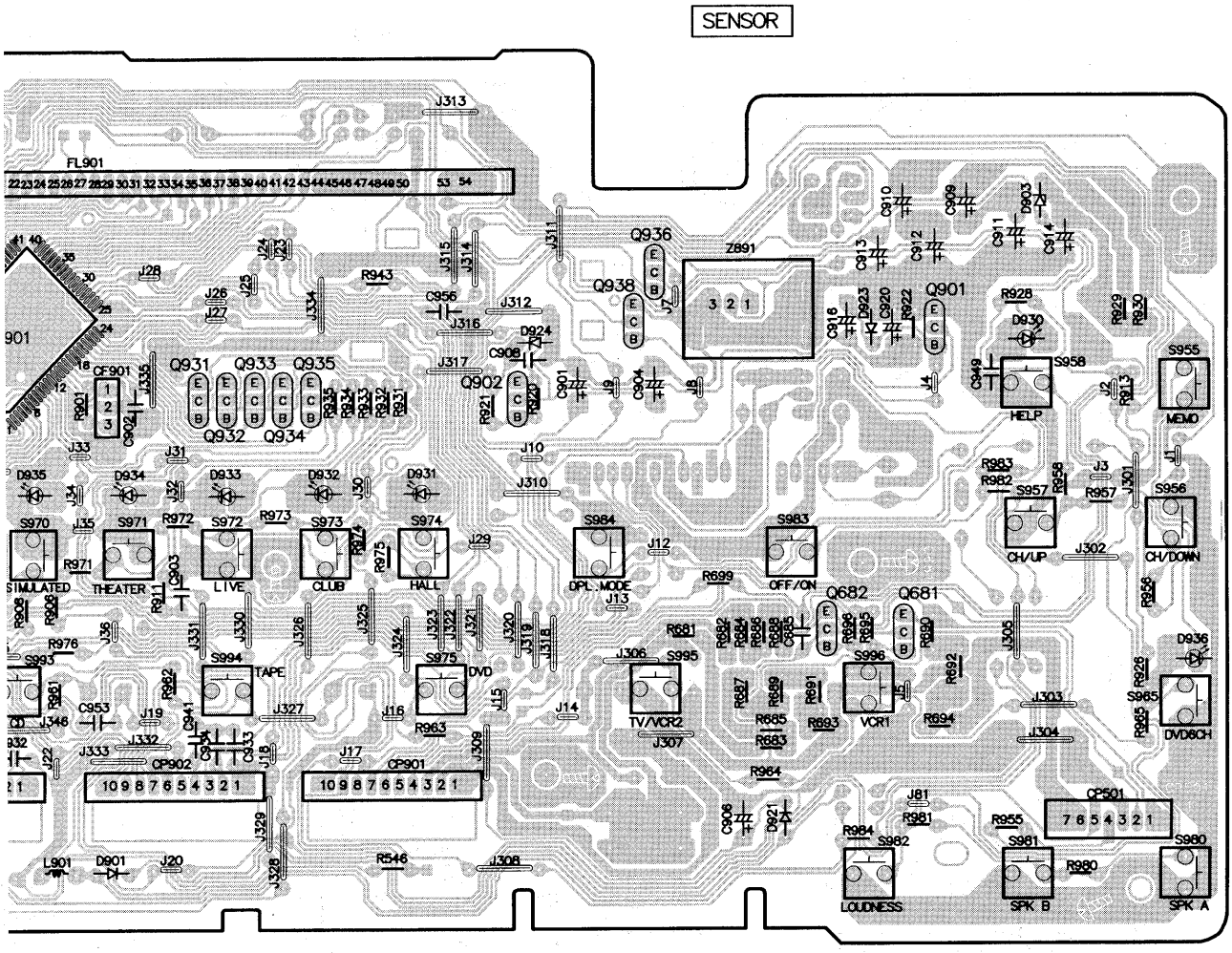
C VOLUME P.C.B. (REP2442B-S)

B PANEL P.C.B. (REP2442B-S)

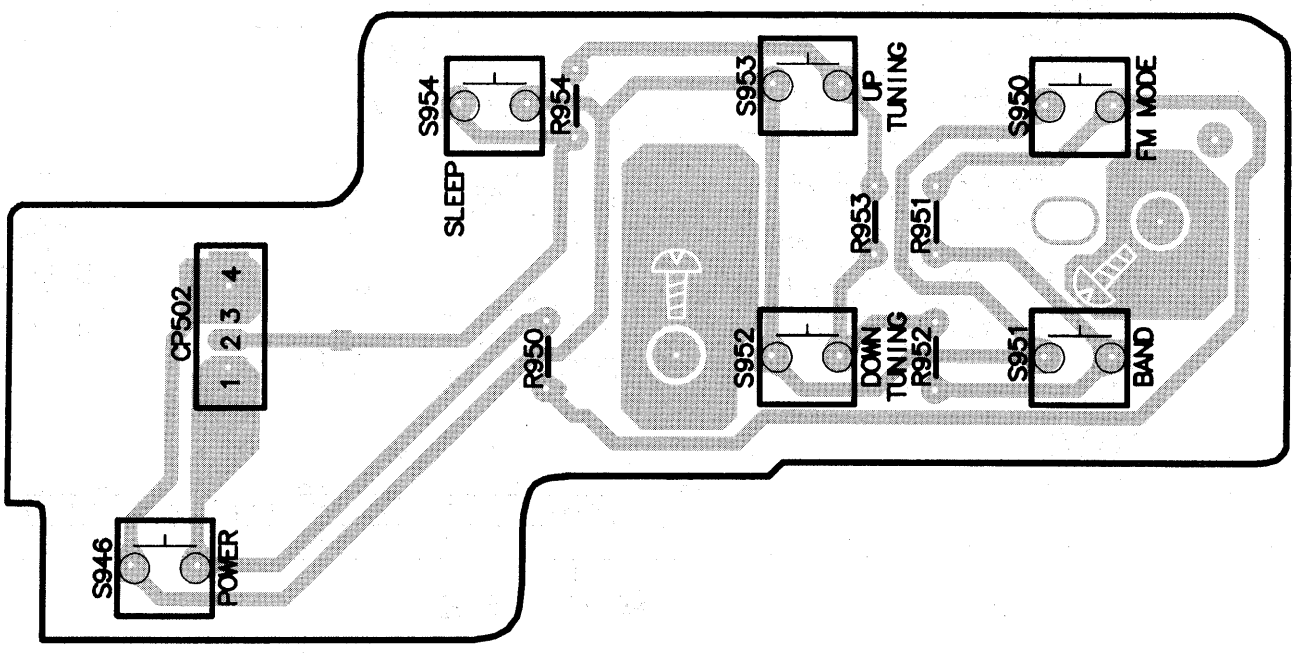


E HEADPHONE JACK P.C.B. (REP2442B-S)

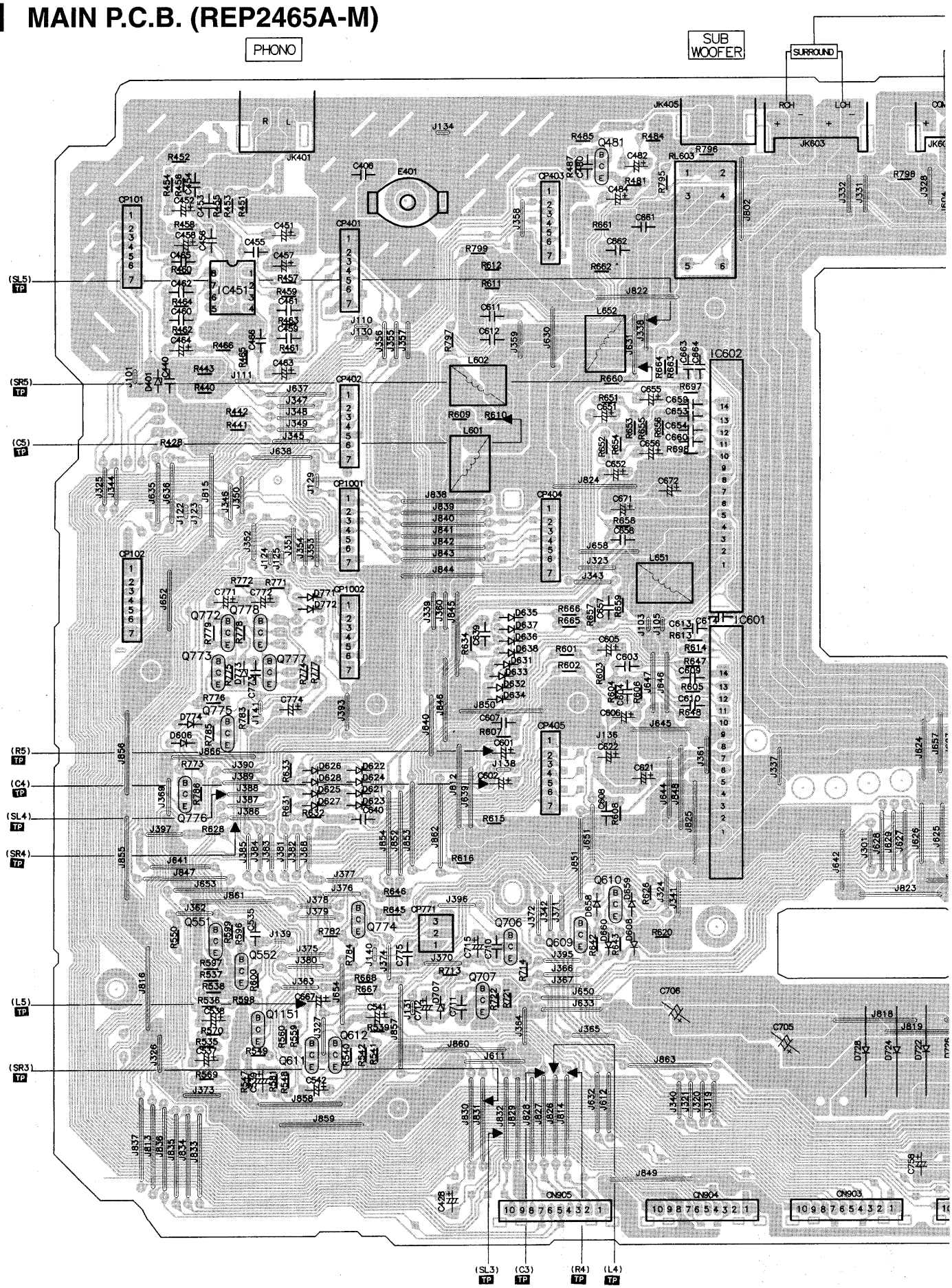


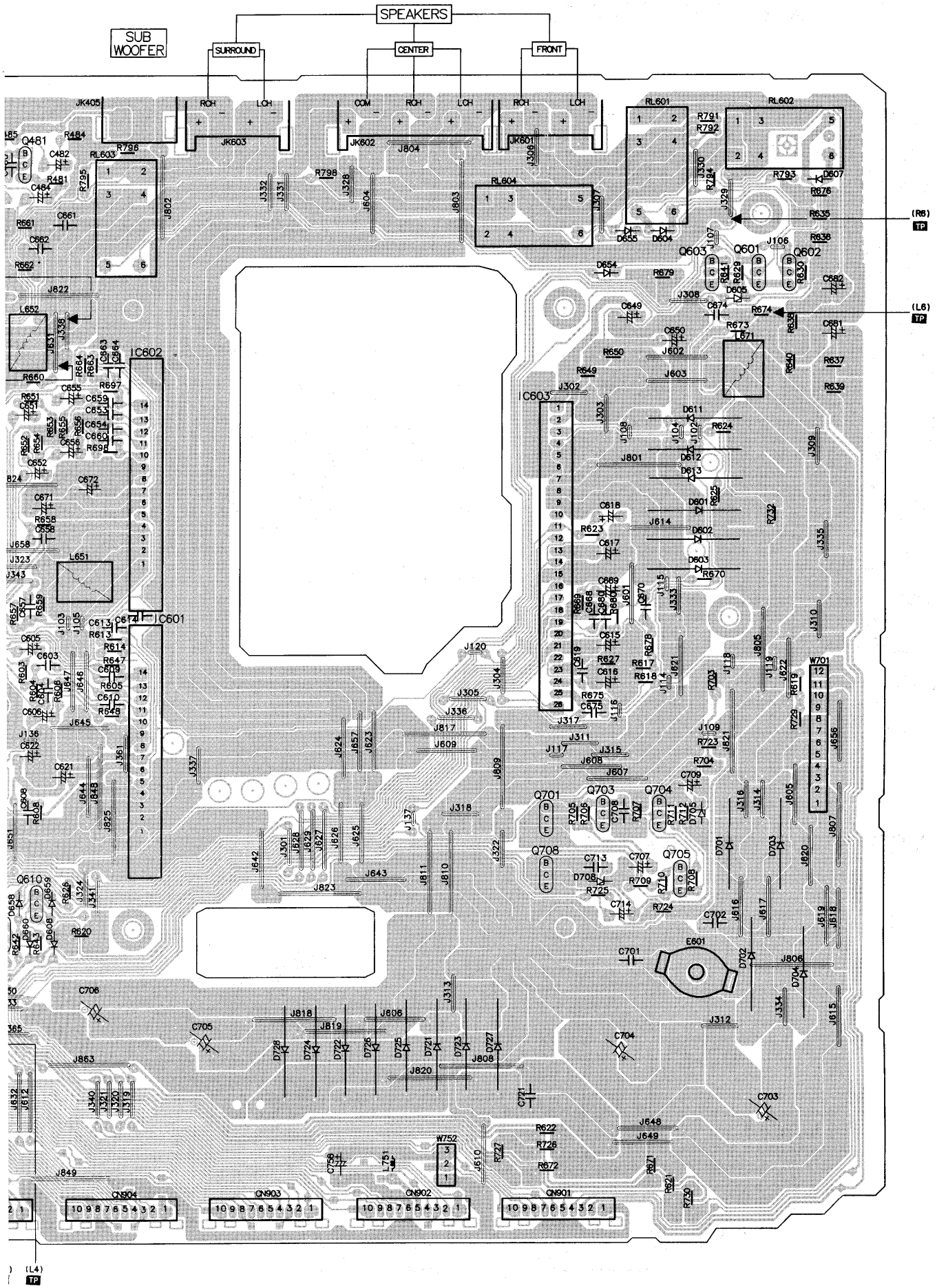


D POWER SWITCH P.C.B. (REP2442B-S)

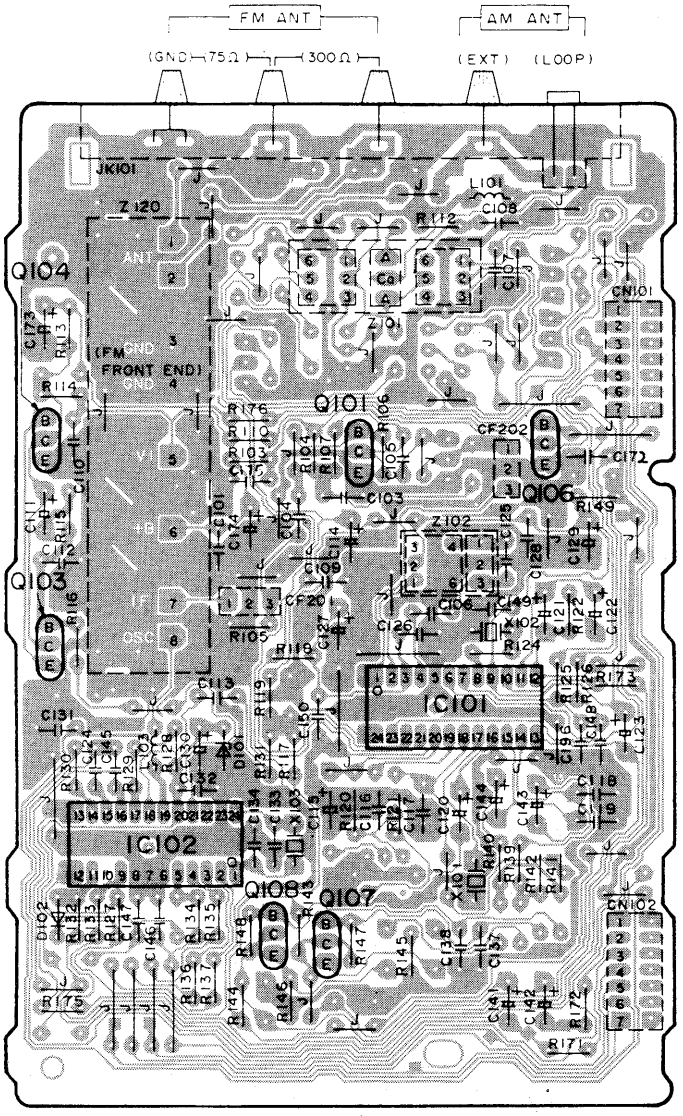


A MAIN P.C.B. (REP2465A-M)

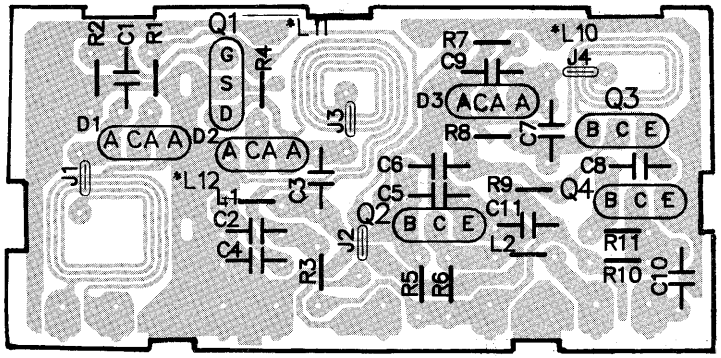



SPEAKERS
SUB WOOFER
SURROUND
CENTER
FRONT
RCH
LCH
COM
(R6) TP
(L6) TP
(L4) TP
IC601
IC602
IC603
CN901
CN902
CN903
CN904

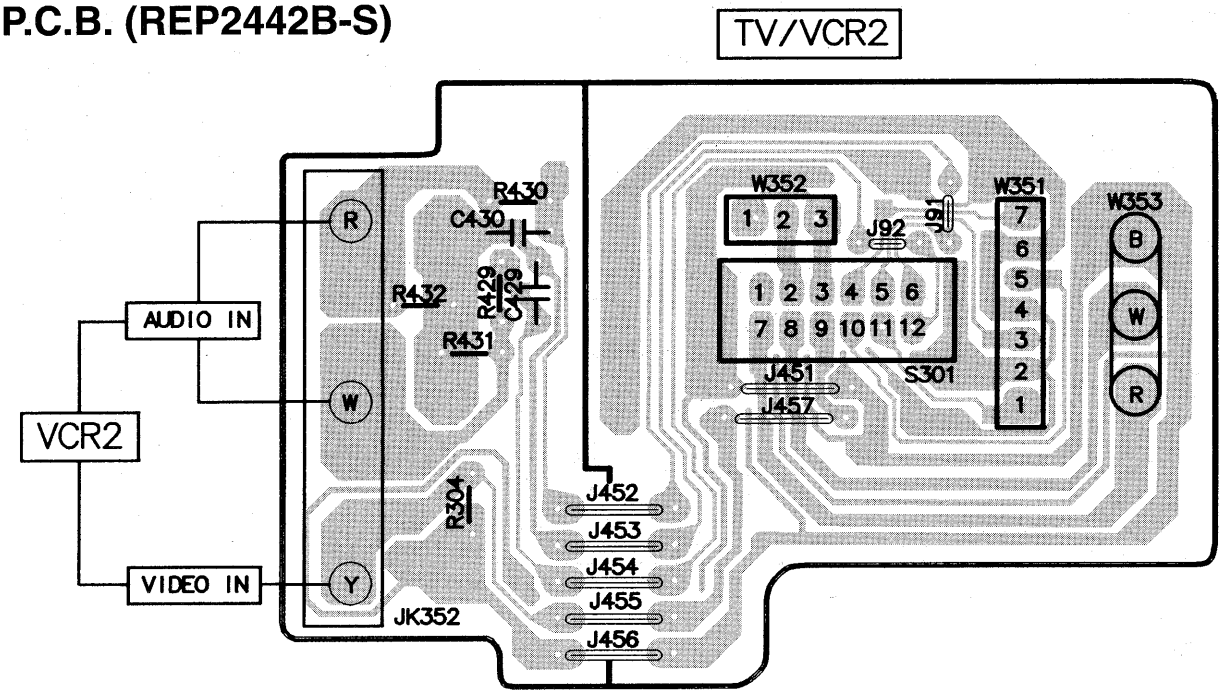
F TUNER P.C.B. (REP2254A-T)



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

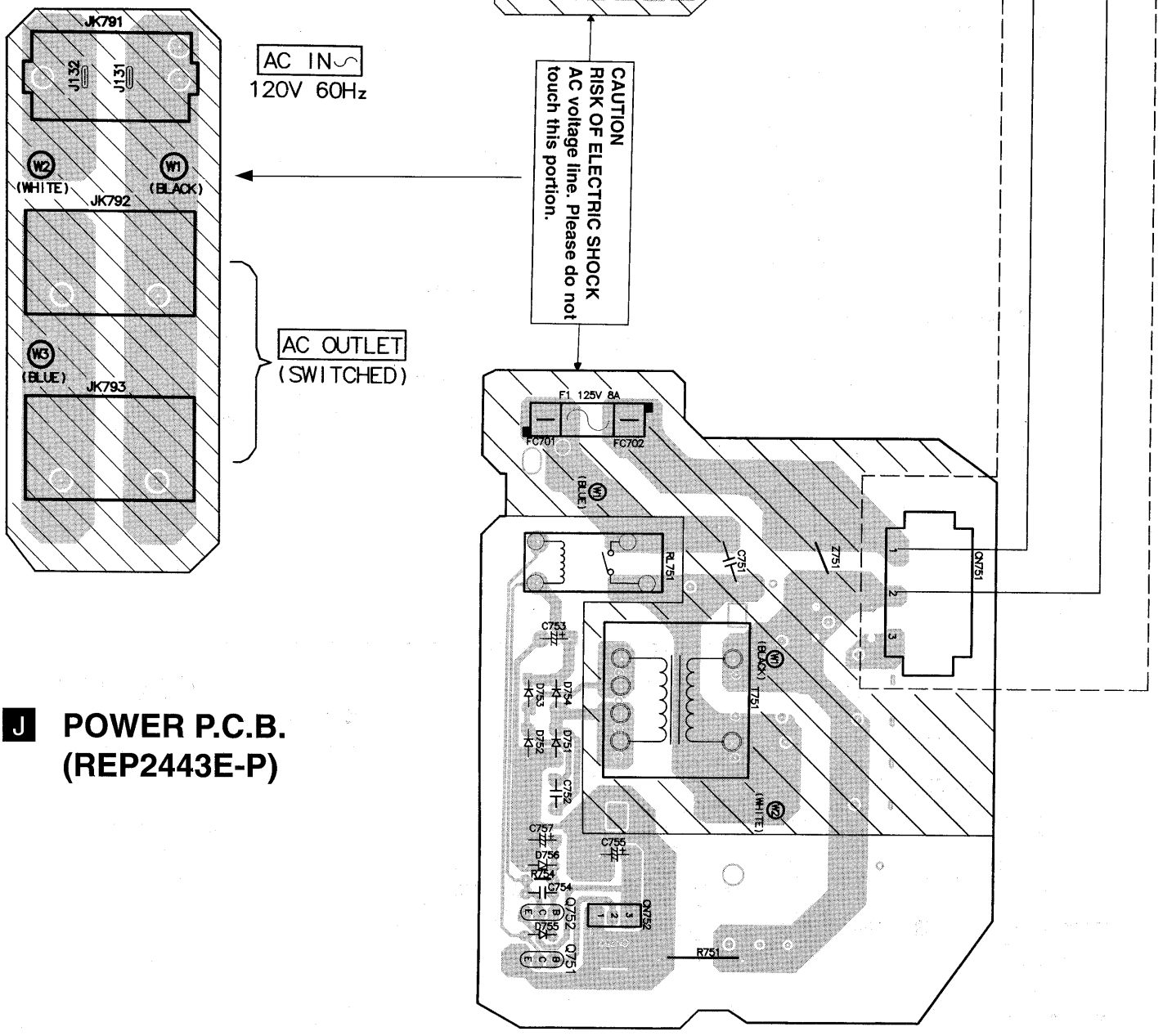


M VCR2 P.C.B. (REP2442B-S)



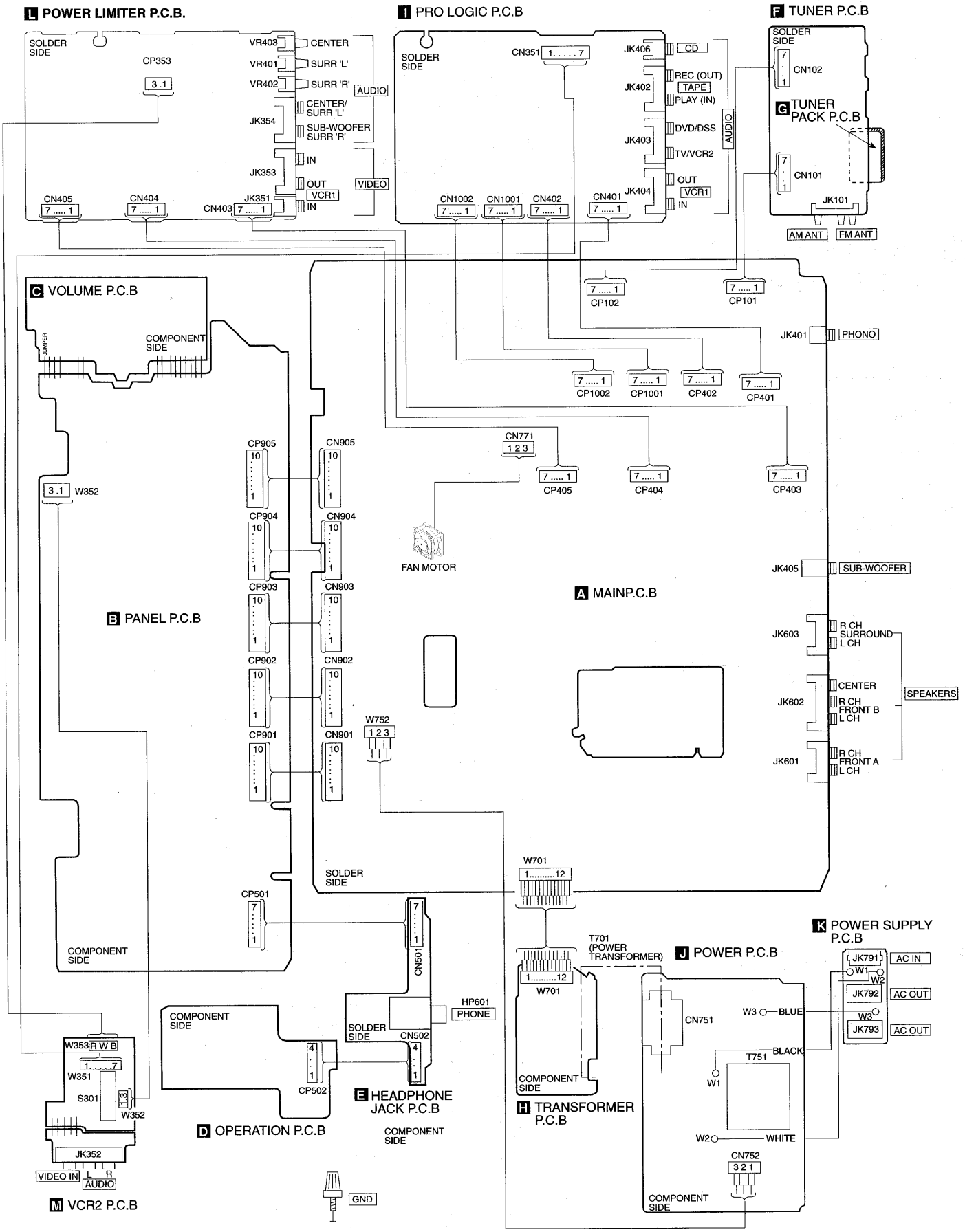
H TRANSFORMER P.C.B. (REP2465A-M)

K POWER SUPPLY P.C.B. (REP2443E-P)

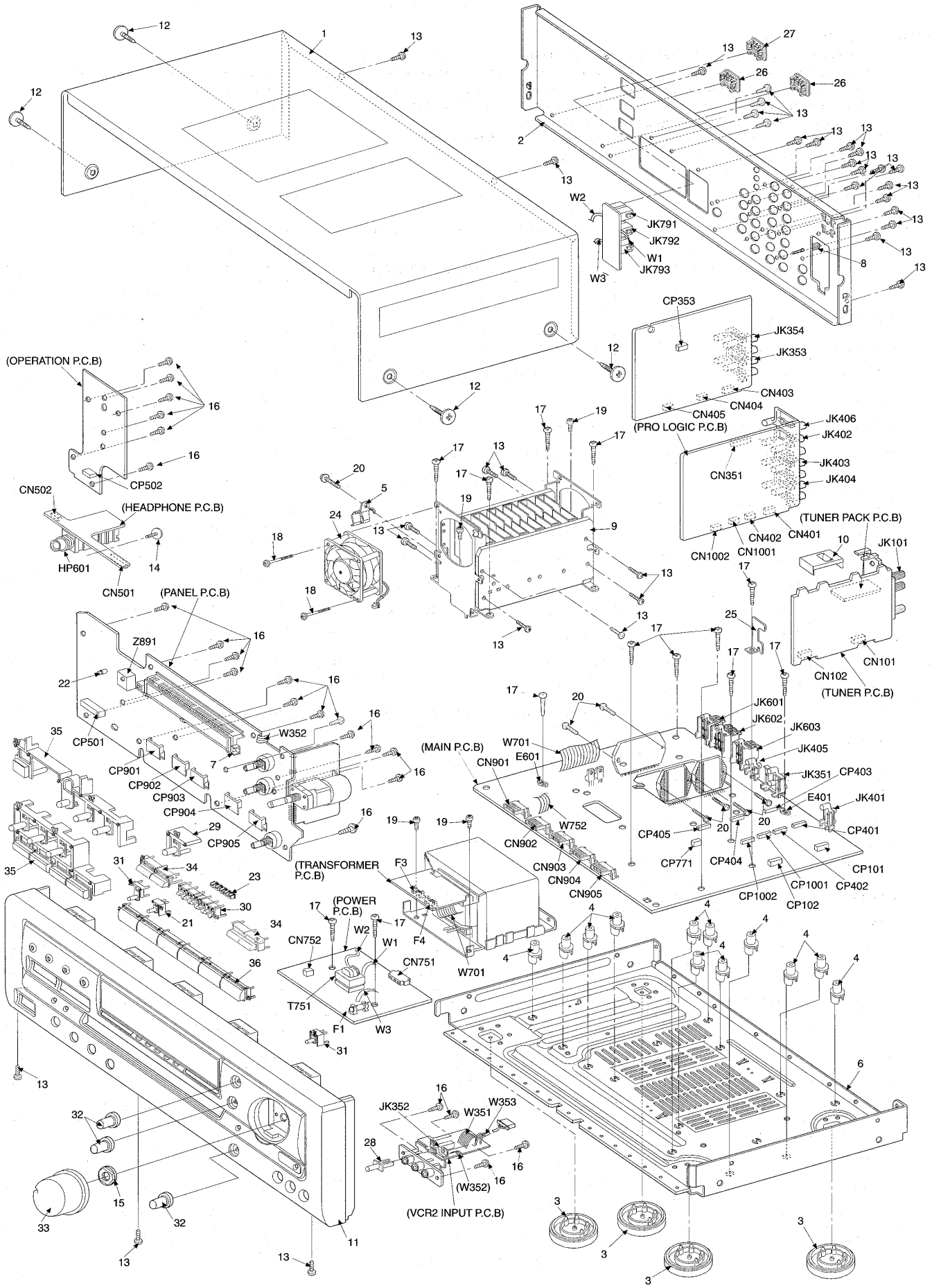


J POWER P.C.B. (REP2443E-P)

■ 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.
* The parenthesized in the Remarks columns specify the areas. (Refer to the cover page for area.)
Parts without these indication can be used for all areas.
* [M] in Remarks column indicates parts that are supplied by **MESA**.
* Remote Control Unit : Supply period for three years from terminal of production.
* The "(SF)" mark denotes the standard part.

Ref No.	Part No.	Part Name & Description	Remarks
		CABINET AND CHASSIS	
1	RKM0342-K	TOP CABINET	[M]
2	RGR0252A-E	REAR PANEL	[M]
3	RKA0079-A	FOOT	[M]
4	RKQ0089	PCB HOLDER	[M]
5	RMC0158-S	TRANSISTOR HOLDER	[M]
6	RMK0350	BOTTOM CHASSIS	[M]
7	RMN0372	FL HOLDER	[M]
8	SNE2123	EARTH TERMINAL	[M]
9	RXX0182	HEAT SINK UNIT	[M]
10	RSC0027-1	SHIELD CASE	[M]
11	RFKGAAX810PK	FRONT CABINET ASS'Y	[M]
12	SNE2129-1	SCREW (CABINET)	[M]
13	XTBS3+8JFZ1	SCREW	[M]
14	RHD26016	SCREW	[M]
15	RHN90001	M9 NUT	[M]
16	XTBS26+10J	SCREW (FRONT)	[M]
17	XTB3+20JFZ	SCREW	[M]
18	XTB3+30J	SCREW	[M]
19	XTB3+8FFZ	SCREW	[M]
20	XTW3+15T	SCREW	[M]
21	RGU1491-Q	6CH INPUT BUTTON	[M]
22	RMN0313	LED SUPPORT	[M]
23	RMN0415	LED COVER	[M]
24	REM0069	FAN UNIT	[M]
25	RMQ0709	TUNER PCB BRACKET	[M]
26	SJS9233A	AC OUTLET COVER	[M]
27	SJS9234A	AC INLET COVER	[M]
28	RGU1390-K	VCR2 BUTTON	[M]
29	RGU1398-Q	HELP BUTTON	[M]
30	RGU1490-Q	SFC (5) BUTTON	[M]
31	RGU1492-K	SLEEP/MUTE BUTTON	[M]
32	RGW0216-K	TONE KNOB	[M]
33	RGW0243A-K	VOLUME KNOB	[M]
34	RGU1352J-K	DOLBY BUTTON	[M]
35	RGU1350E-K	MODE BUTTON	[M]
36	RGU1389A-K	SELECTOR BUTTON	[M]

Ref No.	Part No.	Part Name & Description	Remarks
		INTEGRATED CIRCUITS	
IC101	LA1832A	IF/MPX IC	[M]
IC102	LC7218	PLL IC	[M]
IC331	LC74780-9080	ON SCREEN DISPLAY IC	[M]
IC351	NJM2279D	VIDEO SELECTOR SW IC	[M]
IC352	AN6554F	OSD AMP IC	[M]
IC401	TC9163AN	SELECTOR IC	[M]
IC402	UPC4570C	TONE CONTROL IC	[M]
IC451	AN6558F	OP AMP IC	[M]
IC501	BA6218	MOTOR DRIVER IC	[M]
IC511	UPC4570C	TONE CONTROL IC	[M]
IC551	UPC4570C	TONE CONTROL IC	[M]
IC552	UPC4570C	TONE CONTROL IC	[M]
IC601	RSN36S5A-P	HIC	[M] ⚠
IC602	RSN36S5A-P	HIC	[M] ⚠
IC603	RSN33M5-P	HIC	[M] ⚠
IC901	M38B53M4050F	MICROCOMPUTER	[M]
IC1001	LA2786L	DPL IC	[M]
IC1002	LV1016L	SURR DECODER	[M]
IC1003	TC9214P	SELECTOR IC	[M]
IC1004	TC9162AN	SELECTOR IC	[M]
IC1151	UPC4570C	TONE CONTROL IC	[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	UN411FTA	TRANSISTOR	[M]
Q107	2SC3311ARTA	TRANSISTOR	[M]
Q108	2SC3311ARTA	TRANSISTOR	[M]
Q301	2SC1740SSTA	TRANSISTOR	[M]
Q303	2SC1740SSTA	TRANSISTOR	[M]
Q351	2SD592AQSTA	TRANSISTOR	[M] ⚠

Ref No.	Part No.	Part Name & Description	Remarks
Q352	2SB621AQSTA	TRANSISTOR	[M] ⚠
Q401	2SK381CTA	TRANSISTOR	[M]
Q402	2SK381CTA	TRANSISTOR	[M]
Q481	2SD1915FTA	TRANSISTOR	[M]
Q501	2SJ40CTA	TRANSISTOR	[M]
Q502	2SJ40CTA	TRANSISTOR	[M]
Q505	2SD1915FTA	TRANSISTOR	[M]
Q506	2SD1915FTA	TRANSISTOR	[M]
Q551	2SD1915FTA	TRANSISTOR	[M]
Q552	2SD1915FTA	TRANSISTOR	[M]
Q571	2SA933SSTA	TRANSISTOR	[M]
Q572	2SA933SSTA	TRANSISTOR	[M]
Q573	2SC1740SSTA	TRANSISTOR	[M]
Q574	2SC1740SSTA	TRANSISTOR	[M]
Q575	2SA933SSTA	TRANSISTOR	[M]
Q576	2SC1740SSTA	TRANSISTOR	[M]
Q581	2SA933SSTA	TRANSISTOR	[M]
Q582	2SA933SSTA	TRANSISTOR	[M]
Q583	2SC1740SSTA	TRANSISTOR	[M]
Q584	2SC1740SSTA	TRANSISTOR	[M]
Q585	2SA933SSTA	TRANSISTOR	[M]
Q586	2SA933SSTA	TRANSISTOR	[M]
Q601	RVTDTA113ZST	TRANSISTOR	[M]
Q602	RVTDTA113ZST	TRANSISTOR	[M]
Q603	RVTDTA113ZST	TRANSISTOR	[M]
Q609	RVTDTC114EST	TRANSISTOR	[M]
Q610	RVTDTC114YST	TRANSISTOR	[M]
Q611	2SC1740SSTA	TRANSISTOR	[M]
Q612	2SC1740SSTA	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	2SA1534AQRTA	TRANSISTOR	[M] ⚠
Q708	2SB1548PQAU	TRANSISTOR	[M] ⚠
Q751	RVTDTC143XST	TRANSISTOR	[M]

Ref No.	Part No.	Part Name & Description	Remarks
Q752	2SC3940AQSTA	TRANSISTOR	[M] ⚠
Q772	2SC1740SSTA	TRANSISTOR	[M]
Q773	2SB621AQRSTA	TRANSISTOR	[M]
Q774	RVTDTA114EST	TRANSISTOR	[M]
Q775	2SA933SSTA	TRANSISTOR	[M]
Q776	2SC1740SSTA	TRANSISTOR	[M]
Q777	2SA933SSTA	TRANSISTOR	[M]
Q778	RVTDTA114TST	TRANSISTOR	[M]
Q901	RVTDTC114YST	TRANSISTOR	[M]
Q902	2SA933SSTA	TRANSISTOR	[M]
Q908	RVTDTC114YST	TRANSISTOR	[M]
Q931	RVTDTA114YST	TRANSISTOR	[M]
Q932	RVTDTA114YST	TRANSISTOR	[M]
Q933	RVTDTA114YST	TRANSISTOR	[M]
Q934	RVTDTA114YST	TRANSISTOR	[M]
Q935	RVTDTA114YST	TRANSISTOR	[M]
Q936	RVTDTC114YST	TRANSISTOR	[M]
Q938	RVTDTC114YST	TRANSISTOR	[M]
Q1001	2SC3940AQSTA	TRANSISTOR	[M] ⚠
Q1069	2SC3311AQSTA	TRANSISTOR	[M]
Q1070	2SC3311AQSTA	TRANSISTOR	[M]
Q1151	2SD1915FTA	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]
D301	RVD1SS133TA	DIODE	[M]
D331	RVD1SS133TA	DIODE	[M]
D351	MTZJ5R6BTA	DIODE	[M] ⚠
D352	MTZJ5R6BTA	DIODE	[M] ⚠
D353	RVD1SS133TA	DIODE	[M]
D354	RVD1SS133TA	DIODE	[M]
D401	MTZJ7R5CTA	DIODE	[M]
D403	RVD1SS133TA	DIODE	[M]
D404	RVD1SS133TA	DIODE	[M]
D581	MTZJ3R0ATA	DIODE	[M]
D582	MTZJ3R0ATA	DIODE	[M]
D583	MTZJ3R0ATA	DIODE	[M]
D584	MTZJ3R0ATA	DIODE	[M]
D585	RVD1SS133TA	DIODE	[M]
D586	RVD1SS133TA	DIODE	[M]
D601	SB360L6508	DIODE	[M] ⚠
D602	SB360L6508	DIODE	[M] ⚠
D603	SB360L6508	DIODE	[M] ⚠

Ref No.	Part No.	Part Name & Description	Remarks
D604	RVD1SS133TA	DIODE	[M]
D605	MTZJ6R2BTA	DIODE	[M]
D606	RVD1SS133TA	DIODE	[M]
D607	RVD1SS133TA	DIODE	[M]
D608	RVD1SS133TA	DIODE	[M]
D611	SB360L6508	DIODE	[M] ⚠
D612	SB360L6508	DIODE	[M] ⚠
D613	SB360L6508	DIODE	[M] ⚠
D621	MA167ATA	DIODE	[M]
D622	MA167ATA	DIODE	[M]
D623	MA167ATA	DIODE	[M]
D624	MA167ATA	DIODE	[M]
D625	MA167ATA	DIODE	[M]
D626	MA167ATA	DIODE	[M]
D627	MA167ATA	DIODE	[M]
D628	MA167ATA	DIODE	[M]
D631	MA167ATA	DIODE	[M]
D632	MA167ATA	DIODE	[M]
D633	MA167ATA	DIODE	[M]
D634	MA167ATA	DIODE	[M]
D635	MA167ATA	DIODE	[M]
D636	MA167ATA	DIODE	[M]
D637	MA167ATA	DIODE	[M]
D638	MA167ATA	DIODE	[M]
D654	RVD1SS133TA	DIODE	[M]
D655	RVD1SS133TA	DIODE	[M]
D658	RVD1SS133TA	DIODE	[M]
D659	RVD1SS133TA	DIODE	[M]
D660	RVD1SS133TA	DIODE	[M]
D701	P300DLF	DIODE	[M] ⚠
D702	P300DLF	DIODE	[M] ⚠
D703	P300DLF	DIODE	[M] ⚠
D704	P300DLF	DIODE	[M] ⚠
D705	MTZJ6R2BTA	DIODE	[M] ⚠
D707	MTZJ27DTA	DIODE	[M] ⚠
D708	MTZJ15CTA	DIODE	[M] ⚠
D721	P300DLF	DIODE	[M] ⚠
D722	P300DLF	DIODE	[M] ⚠
D723	P300DLF	DIODE	[M] ⚠
D724	P300DLF	DIODE	[M] ⚠
D725	P300DLF	DIODE	[M] ⚠
D726	P300DLF	DIODE	[M] ⚠
D727	P300DLF	DIODE	[M] ⚠
D728	P300DLF	DIODE	[M] ⚠
D751	1SR35200TB	DIODE	[M] ⚠
D752	1SR35200TB	DIODE	[M] ⚠
D753	1SR35200TB	DIODE	[M] ⚠
D754	1SR35200TB	DIODE	[M] ⚠

Ref No.	Part No.	Part Name & Description	Remarks
D755	RVD1SS133TA	DIODE	[M] ⚠
D756	MTZJ6R8BTA	DIODE	[M] ⚠
D771	RVD1SS133TA	DIODE	[M]
D772	RVD1SS133TA	DIODE	[M]
D773	MTZJ12CTA	DIODE	[M]
D774	RVD1SS133TA	DIODE	[M]
D901	1SS291TA	DIODE	[M]
D903	MTZJ4R7BTA	DIODE	[M]
D907	MA167ATA	DIODE	[M]
D921	RVD1SS133TA	DIODE	[M]
D923	RVD1SS133TA	DIODE	[M]
D924	MTZJ3R9ATA	DIODE	[M]
D930	SLR342DC	DIODE	[M]
D931	SLR342DCTB7	DIODE	[M]
D932	SLR342DCTB7	DIODE	[M]
D933	SLR342DCTB7	DIODE	[M]
D934	SLR342DCTB7	DIODE	[M]
D935	SLR342DCTB7	DIODE	[M]
D936	SLR342MC	DIODE	[M]
D1001	MTZJ10CTA	DIODE	[M]
D1002	MA700ATA	DIODE	[M]
		VARIABLE RESISTORS	
VR401	EVUE3AE20B15	VARIABLE RESISTOR	[M]
VR402	EVUE3AE20B15	VARIABLE RESISTOR	[M]
VR403	EVUE3AE20B15	VARIABLE RESISTOR	[M]
VR501	EUWM6A026B15	MOTOR VOLUME	[M]
VR502	EWC0YAF15G15	BALANCE CONTROL VR	[M]
VR511	EWC1XA020C15	TONE CONTROL VR	[M]
VR512	EWC1XA020C15	TONE CONTROL VR	[M]
		SWITCHES	
S301	RSP2D009-J	SWITCH	[M]
S946	EVQ21405R	TACK SWITCH	[M]
S948	EVQ21405R	TACK SWITCH	[M]
S950	EVQ21405R	TACK SWITCH	[M]
S951	EVQ21405R	TACK SWITCH	[M]
S952	EVQ21405R	TACK SWITCH	[M]
S953	EVQ21405R	TACK SWITCH	[M]
S954	EVQ21405R	TACK SWITCH	[M]
S955	EVQ21405R	TACK SWITCH	[M]
S956	EVQ21405R	TACK SWITCH	[M]
S957	EVQ21405R	TACK SWITCH	[M]
S958	EVQ21405R	TACK SWITCH	[M]
S965	EVQ21405R	TACK SWITCH	[M]
S970	EVQ21405R	TACK SWITCH	[M]

Ref No.	Part No.	Part Name & Description	Remarks
S971	EVQ21405R	TACK SWITCH	[M]
S972	EVQ21405R	TACK SWITCH	[M]
S973	EVQ21405R	TACK SWITCH	[M]
S974	EVQ21405R	TACK SWITCH	[M]
S975	EVQ21405R	TACK SWITCH	[M]
S976	EVQ21405R	TACK SWITCH	[M]
S980	EVQ21405R	TACK SWITCH	[M]
S981	EVQ21405R	TACK SWITCH	[M]
S982	EVQ21405R	TACK SWITCH	[M]
S983	EVQ21405R	TACK SWITCH	[M]
S984	EVQ21405R	TACK SWITCH	[M]
S985	EVQ21405R	TACK SWITCH	[M]
S991	EVQ21405R	TACK SWITCH	[M]
S992	EVQ21405R	TACK SWITCH	[M]
S993	EVQ21405R	TACK SWITCH	[M]
S994	EVQ21405R	TACK SWITCH	[M]
S995	EVQ21405R	TACK SWITCH	[M]
S996	EVQ21405R	TACK SWITCH	[M]
		CONNECTORS	
CN101	RJU057W007	7P CONNECTOR	[M]
CN102	RJU057W007	7P CONNECTOR	[M]
CN351	RJS7T6ZA	7PIN CONNECTOR	[M]
CN401	RJU100W07	7P CONNECTOR	[M]
CN402	RJU100W07	7P CONNECTOR	[M]
CN403	RJU100W07	7P CONNECTOR	[M]
CN404	RJU100W07	7P CONNECTOR	[M]
CN405	RJU100W07	7P CONNECTOR	[M]
CN501	RJU100W07	7P CONNECTOR	[M]
CN502	RJU100W04	4P CONNECTOR	[M]
CN751	SJS305-1	3P CONNECTOR	[M]
CN752	RJS1A6603	3 PIN TAPING CONNECT	[M]
CN901	RJU003K010M1	10P B/B CONNECTOR	[M]
CN902	RJU003K010M1	10P B/B CONNECTOR	[M]
CN903	RJU003K010M1	10P B/B CONNECTOR	[M]
CN904	RJU003K010M1	10P B/B CONNECTOR	[M]
CN905	RJU003K010M1	10P B/B CONNECTOR	[M]
CN1001	RJU100W07	7P CONNECTOR	[M]
CN1002	RJU100W07	7P CONNECTOR	[M]
CP101	RJT057W007-1	7P CONNECTOR	[M]
CP102	RJT057W007-1	7P CONNECTOR	[M]
CP353	RJP3G4YA	CONNECTOR	[M]
CP401	RJT100W07	7P CONNECTOR	[M]
CP402	RJT100W07	7P CONNECTOR	[M]
CP403	RJT100W07	7P CONNECTOR	[M]
CP404	RJT100W07	7P CONNECTOR	[M]
CP405	RJT100W07	7P CONNECTOR	[M]

Ref No.	Part No.	Part Name & Description	Remarks
CP501	RJT100W07	7P CONNECTOR	[M]
CP502	RJT100W04	4P CONNECTOR	[M]
CP771	RJP3G4YA	CONNECTOR	[M]
CP901	RJT003K010M1	10P CONNECTOR	[M]
CP902	RJT003K010M1	10P CONNECTOR	[M]
CP903	RJT003K010M1	10P CONNECTOR	[M]
CP904	RJT003K010M1	10P CONNECTOR	[M]
CP905	RJT003K010M1	10P CONNECTOR	[M]
CP1001	RJT100W07	7P CONNECTOR	[M]
CP1002	RJT100W07	7P 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]
L351	RLQB101KTA-Y	CHOKE COIL	[M]
L352	ELEXT330KA9	CHOKE COIL	[M]
L501	RLQZP1R0KT-Y	AXIAL COIL	[M]
L502	RLQZP1R0KT-Y	AXIAL COIL	[M]
L601	RLQYR73M	CHOKE COIL	[M]
L602	RLQYR73M	CHOKE COIL	[M]
L651	RLQYR73M	CHOKE COIL	[M]
L652	RLQYR73M	CHOKE COIL	[M]
L671	RLQYR73M	CHOKE COIL	[M]
L751	RLQB101KTA-Y	CHOKE COIL	[M]
L901	RLQB101KTA-Y	CHOKE COIL	[M]
L1051	RLQB101KTA-Y	CHOKE COIL	[M]
T701	RTP1Q5C011-V	TRANSFORMER	[M] ⚠
T751	RTP1H5C001-V	POWER TRANSFORMER	[M] ⚠
		COMPONENT COMBINATION	
Z101	RLA2Z002M-T	AM ANT. COIL	[M]
Z102	RLI2Z006M-T	AM IFT	[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]

Ref No.	Part No.	Part Name & Description	Remarks
		OSCILLATORS	
X101	RSXZ456KM07M	CERAMIC OSCILLATOR	[M]
X102	RLFDGTD01I	FM REZONATOR	[M]
X103	SVQ49U722T-S	CRYSTAL 7.2MHZ	[M]
X351	RSXC14M3S01	X'TAL	[M]
		DISPLAY TUBE	
FL901	RSL0233-F	FL	[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]
RL603	RSY0013M-0	RELAY	[M]
RL604	RSY0013M-0	RELAY	[M]
RL751	RSY0019M-0	12V TV-5 RELAY	[M] ⚠
		FUSES	
F1	XBA1C80NBAL	FUSE	[M] ⚠
F3	XBA1C80NBAL	FUSE	[M] ⚠
F4	XBA1C80NBAL	FUSE	[M] ⚠
		FUSE CLIPS	
FC701	EYF52BC	FUSE HOLDER	[M]
FC702	EYF52BC	FUSE HOLDER	[M]
FC705	EYF52BC	FUSE HOLDER	[M]
FC706	EYF52BC	FUSE HOLDER	[M]
FC707	EYF52BC	FUSE HOLDER	[M]
FC708	EYF52BC	FUSE HOLDER	[M]
		JACKS	
JK101	RJH4405	ANT TERMINAL	[M]
JK351	SJFD7-5	RCA TERMINAL	[M]
JK352	SJFK5-2A	VCR IN	[M]
JK353	SJF3069-3N	RCA PIN JACK	[M]
JK354	SJF3069-16N	RCA TERMINAL	[M]
JK401	SJF3068-7N	RCA TERMINAL	[M]
JK402	SJF3069N	LINE IN JACK	[M]

Ref No.	Part No.	Part Name & Description	Remarks
JK403	SJF3069N	LINE IN JACK	[M]
JK404	SJF3069N	LINE IN JACK	[M]
JK405	SJFD7	FM MULTI OUT	[M]
JK406	SJF3068-7N	RCA TERMINAL	[M]
JK601	RJR0054	SP TERMINAL	[M]
JK602	RJH5601	SP TERMINAL	[M]
JK603	RJR0054	SP TERMINAL	[M]
JK791	SJS9234B	AC INLET	[M] ⚠
JK792	SJS9233B	AC OUTLET	[M] ⚠
JK793	SJS9233B	AC OUTLET	[M] ⚠
HP601	RJJ63TA01	HP JACK	[M]

Ref No.	Part No.	Part Name & Description	Remarks
		WIRES	
W1	REE0769	WIRE UNIT	[M]
W2	REE0770	WIRE UNIT	[M]
W3	REE0771	WIRE UNIT	[M]
W353	REX0800	SHIELD WIRE	[M]
		PACKING MATERIALS	
P1	SPSD152	ACCESSORY BOX	[M]
P2	RPFX0005	MIRAMAT BAG	[M]
P3	RPG3354	PACKING CASE	[M]
P4	RPN0966	POLYFOAM	[M]

Ref No.	Part No.	Part Name & Description	Remarks
		ACCESSORIES	
A1	RAK-SA925MK	REMOTE CONTROL	[M]
A1-1	RFKNAAX710PK	REMOTE CONTROL COVER	[M]
A2	RFKSAAX810PK	INSTR. MANUAL ASS'Y	[M]
A3	RSA0006	FM ANTENNA WIRE	[M]
A4	RSA0010	LOOP ANT UNIT	[M]
A5	SJA172	AC CORD	[M] (SF) ⚠

■ Resistors & Capacitors

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.
* 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)

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]

Ref No.	Part No.	Values & Remarks
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]

Ref No.	Part No.	Values & Remarks
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]
R303	ERDS2TJ750T	75 1/4W [M]
R304	ERDS2TJ750T	75 1/4W [M]
R307	ERDS2TJ104T	100K 1/4W [M]
R308	ERDS2TJ472T	4.7K 1/4W [M]
R309	ERDS2TJ332T	3.3K 1/4W [M]
R310	ERDS2TJ471T	470 1/4W [M]
R311	ERDS2TJ750T	75 1/4W [M]
R314	ERDS2TJ221T	220 1/4W [M]
R320	ERDS2TJ103T	10K 1/4W [M]
R321	ERDS2TJ470T	47 1/4W [M]
R324	ERDS2TJ103T	10K 1/4W [M]
R328	ERDS2TJ471T	470 1/4W [M]
R331	ERDS2TJ221T	220 1/4W [M]
R332	ERDS2TJ104T	100K 1/4W [M]
R333	ERDS2TJ101T	100 1/4W [M]
R334	ERDS2TJ101T	100 1/4W [M]

Ref No.	Part No.	Values & Remarks
R336	ERDS2TJ332T	3.3K 1/4W [M]
R337	ERDS2TJ332T	3.3K 1/4W [M]
R338	ERDS2TJ332T	3.3K 1/4W [M]
R339	ERDS2TJ332T	3.3K 1/4W [M]
R341	ERDS2TJ273T	27K 1/4W [M]
R342	ERDS2TJ104T	100K 1/4W [M]
R343	ERDS2TJ104T	100K 1/4W [M]
R344	ERDS2TJ104T	100K 1/4W [M]
R345	ERDS2TJ273T	27K 1/4W [M]
R346	ERDS2TJ273T	27K 1/4W [M]
R347	ERDS2TJ104T	100K 1/4W [M]
R348	ERDS2TJ104T	100K 1/4W [M]
R349	ERDS2TJ104T	100K 1/4W [M]
R350	ERDS2TJ104T	100K 1/4W [M]
R351	ERDS2TJ104T	100K 1/4W [M]
R352	ERDS2TJ104T	100K 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]

Ref No.	Part No.	Values & Remarks
R375	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]
R428	ERDS2TJ332T	3.3K 1/4W [M]
R429	ERDS2TJ102T	1K 1/4W [M]
R430	ERDS2TJ102T	1K 1/4W [M]
R431	ERDS2TJ224T	220K 1/4W [M]
R432	ERDS2TJ224T	220K 1/4W [M]
R433	ERDS2TJ102T	1K 1/4W [M]
R434	ERDS2TJ102T	1K 1/4W [M]
R435	ERDS2TJ473T	47K 1/4W [M]
R440	ERDS1FVJ560T	56 1/2W [M] ⚠
R441	ERDS2TJ473T	47K 1/4W [M]
R442	ERDS2TJ473T	47K 1/4W [M]
R443	ERDS1FVJ560T	56 1/2W [M] ⚠
R451	ERDS2TJ224T	220K 1/4W [M]
R452	ERDS2TJ224T	220K 1/4W [M]
R453	ERDS2TJ821T	820 1/4W [M]
R454	ERDS2TJ821T	820 1/4W [M]
R455	ERDS2TJ563T	56K 1/4W [M]
R456	ERDS2TJ563T	56K 1/4W [M]
R457	ERDS2TJ271T	270 1/4W [M]
R458	ERDS2TJ271T	270 1/4W [M]
R459	ERDS2TJ680T	68 1/4W [M]
R460	ERDS2TJ680T	68 1/4W [M]
R461	ERDS2TJ184T	180K 1/4W [M]
R462	ERDS2TJ184T	180K 1/4W [M]
R463	ERDS2TJ123T	12K 1/4W [M]
R464	ERDS2TJ123T	12K 1/4W [M]
R465	ERDS2TJ563T	56K 1/4W [M]
R466	ERDS2TJ563T	56K 1/4W [M]
R467	ERDS2TJ102T	1K 1/4W [M]
R468	ERDS2TJ102T	1K 1/4W [M]
R469	ERDS2TJ102T	1K 1/4W [M]
R470	ERDS2TJ102T	1K 1/4W [M]
R473	ERDS2TJ102T	1K 1/4W [M]
R474	ERDS2TJ102T	1K 1/4W [M]
R477	ERDS2TJ103T	10K 1/4W [M]
R478	ERDS2TJ104T	100K 1/4W [M]
R479	ERDS2TJ822T	8.2K 1/4W [M]
R480	ERDS2TJ822T	8.2K 1/4W [M]
R481	ERDS2TJ332T	3.3K 1/4W [M]
R483	ERDS2TJ822T	8.2K 1/4W [M]
R484	ERDS2TJ104T	100K 1/4W [M]
R485	ERDS2TJ224T	220K 1/4W [M]
R487	ERDS2TJ472T	4.7K 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]
R507	ERDS2TJ153T	15K 1/4W [M]
R508	ERDS1FVJ2R2T	2.2 1/2W [M] ⚠
R509	ERDS2TJ103T	10K 1/4W [M]
R510	ERDS2TJ103T	10K 1/4W [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	ERDS2TJ182T	1.8K 1/4W [M]
R520	ERDS2TJ182T	1.8K 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	ERDS2TJ473T	47K 1/4W [M]
R534	ERDS2TJ473T	47K 1/4W [M]
R535	ERDS2TJ392T	3.9K 1/4W [M]
R536	ERDS2TJ392T	3.9K 1/4W [M]
R537	ERDS2TJ103T	10K 1/4W [M]
R538	ERDS2TJ103T	10K 1/4W [M]
R539	ERDS2TJ272T	2.7K 1/4W [M]
R540	ERDS2TJ272T	2.7K 1/4W [M]
R541	ERDS2TJ682T	6.8K 1/4W [M]
R542	ERDS2TJ682T	6.8K 1/4W [M]
R543	ERDS2TJ102T	1K 1/4W [M]
R544	ERDS2TJ102T	1K 1/4W [M]
R545	ERDS2TJ684T	680K 1/4W [M]
R546	ERDS2TJ332T	3.3K 1/4W [M]
R547	ERDS2TJ103T	10K 1/4W [M]
R548	ERDS2TJ392T	3.9K 1/4W [M]
R549	ERDS2TJ222T	2.2K 1/4W [M]
R550	ERDS2TJ102T	1K 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	ERDS2TJ471T	470 1/4W [M]
R558	ERDS2TJ471T	470 1/4W [M]
R559	ERDS2TJ222T	2.2K 1/4W [M]
R560	ERDS2TJ222T	2.2K 1/4W [M]
R561	ERDS2TJ102T	1K 1/4W [M]
R562	ERDS2TJ102T	1K 1/4W [M]
R563	ERDS2TJ104T	100K 1/4W [M]
R564	ERDS2TJ104T	100K 1/4W [M]
R565	ERDS2TJ223T	22K 1/4W [M]
R567	ERDS2TJ471T	470 1/4W [M]
R568	ERDS2TJ221T	220 1/4W [M]
R569	ERDS2TJ332T	3.3K 1/4W [M]
R570	ERDS2TJ332T	3.3K 1/4W [M]
R571	ERDS2TJ222T	2.2K 1/4W [M]
R572	ERDS2TJ222T	2.2K 1/4W [M]
R573	ERDS2TJ102T	1K 1/4W [M]
R574	ERDS2TJ102T	1K 1/4W [M]
R575	ERDS2TJ102T	1K 1/4W [M]
R576	ERDS2TJ102T	1K 1/4W [M]
R577	ERDS2TJ102T	1K 1/4W [M]
R578	ERDS2TJ102T	1K 1/4W [M]
R579	ERDS2TJ222T	2.2K 1/4W [M]
R580	ERDS2TJ102T	1K 1/4W [M]
R581	ERDS2TJ332T	3.3K 1/4W [M]
R582	ERDS2TJ102T	1K 1/4W [M]
R583	ERDS2TJ102T	1K 1/4W [M]
R584	ERDS2TJ102T	1K 1/4W [M]
R585	ERDS2TJ102T	1K 1/4W [M]
R586	ERDS2TJ102T	1K 1/4W [M]
R587	ERDS2TJ102T	1K 1/4W [M]
R588	ERDS2TJ102T	1K 1/4W [M]
R589	ERDS2TJ182T	1.8K 1/4W [M]
R590	ERDS2TJ473T	47K 1/4W [M]
R591	ERDS2TJ222T	2.2K 1/4W [M]
R592	ERDS2TJ222T	2.2K 1/4W [M]
R593	ERDS2TJ100T	10 1/4W [M]
R594	ERDS2TJ103T	10K 1/4W [M]
R595	ERDS2TJ473T	47K 1/4W [M]
R596	ERDS2TJ102T	1K 1/4W [M]
R597	ERDS2TJ272T	2.7K 1/4W [M]
R598	ERDS2TJ272T	2.7K 1/4W [M]
R599	ERDS2TJ102T	1K 1/4W [M]
R600	ERDS2TJ102T	1K 1/4W [M]
R601	ERDS2TJ102T	1K 1/4W [M]
R602	ERDS2TJ102T	1K 1/4W [M]
R603	ERDS2TJ563T	56K 1/4W [M]
R604	ERDS2TJ563T	56K 1/4W [M]
R605	ERDS2TJ182T	1.8K 1/4W [M]
R606	ERDS2TJ182T	1.8K 1/4W [M]
R607	ERDS2TJ563T	56K 1/4W [M]
R608	ERDS2TJ563T	56K 1/4W [M]
R609	ERDS2TJ470T	47 1/4W [M]
R610	ERDS2TJ470T	47 1/4W [M]
R611	ERDS1FVJ100T	10 1/2W [M] ⚠
R612	ERDS1FVJ100T	10 1/2W [M]
R613	ERDS2TJ102T	1K 1/4W [M]
R614	ERDS2TJ102T	1K 1/4W [M]
R615	ERDS2TJ184T	180K 1/4W [M]
R616	ERDS2TJ154T	150K 1/4W [M]
R617	ERDS2TJ473T	47K 1/4W [M]
R618	ERDS2TJ473T	47K 1/4W [M]
R619	ERDS2TJ223T	22K 1/4W [M]
R620	ERD25FVJ220T	22 1/4W [M]
R621	ERD25FVJ680T	68 1/4W [M]
R622	ERD25FVJ680T	68 1/4W [M]
R623	ERDS2TJ104T	100K 1/4W [M]
R624	ERDS2TJ563T	56K 1/4W [M]

Ref No.	Part No.	Values & Remarks
R625	ERDS2TJ563T	56K 1/4W [M]
R626	ERDS2TJ332T	3.3K 1/4W [M]
R627	ERDS2TJ155T	1.5M 1/4W [M]
R628	ERDS2TJ223T	22K 1/4W [M]
R629	ERDS2TJ682T	6.8K 1/4W [M]
R630	ERDS2TJ682T	6.8K 1/4W [M]
R631	ERDS2TJ123T	12K 1/4W [M]
R632	ERDS2TJ472T	4.7K 1/4W [M]
R633	ERDS2TJ123T	12K 1/4W [M]
R634	ERDS2TJ472T	4.7K 1/4W [M]
R635	ERD25FVJ151T	150 1/4W [M]
R636	ERD25FVJ151T	150 1/4W [M]
R637	ERG1SJ101E	100 1W [M] ⚠
R638	ERG1SJ101E	100 1W [M] ⚠
R639	ERG1SJ101E	100 1W [M] ⚠
R640	ERG1SJ101E	100 1W [M] ⚠
R641	ERDS2TJ332T	3.3K 1/4W [M]
R642	ERDS2TJ104T	100K 1/4W [M]
R643	ERDS2TJ393T	39K 1/4W [M]
R645	ERD2FCVG220T	22 1/4W [M]
R646	ERD2FCVG220T	22 1/4W [M]
R647	ERDS2TJ221T	220 1/4W [M]
R648	ERDS2TJ221T	220 1/4W [M]
R649	ERD25FVJ680T	68 1/4W [M]
R650	ERD25FVJ680T	68 1/4W [M]
R651	ERDS2TJ102T	1K 1/4W [M]
R652	ERDS2TJ102T	1K 1/4W [M]
R653	ERDS2TJ563T	56K 1/4W [M]
R654	ERDS2TJ563T	56K 1/4W [M]
R655	ERDS2TJ182T	1.8K 1/4W [M]
R656	ERDS2TJ182T	1.8K 1/4W [M]
R657	ERDS2TJ563T	56K 1/4W [M]
R658	ERDS2TJ563T	56K 1/4W [M]
R659	ERDS2TJ470T	47 1/4W [M]
R660	ERDS2TJ470T	47 1/4W [M]
R661	ERDS1FVJ100T	10 1/2W [M] ⚠
R662	ERDS1FVJ100T	10 1/2W [M] ⚠
R663	ERDS2TJ102T	1K 1/4W [M]
R664	ERDS2TJ102T	1K 1/4W [M]
R665	ERDS2TJ184T	180K 1/4W [M]
R666	ERDS2TJ154T	150K 1/4W [M]
R667	ERDS2TJ102T	1K 1/4W [M]
R668	ERDS2TJ563T	56K 1/4W [M]
R669	ERDS2TJ182T	1.8K 1/4W [M]
R670	ERDS2TJ563T	56K 1/4W [M]
R671	ERD25FVJ680T	68 1/4W [M]
R672	ERD25FVJ680T	68 1/4W [M]
R673	ERDS2TJ470T	47 1/4W [M]

Ref No.	Part No.	Values & Remarks
R674	ERDS1FVJ100T	10 1/2W[M] ⚠
R675	ERDS2TJ102T	1K 1/4W [M]
R676	ERD25FVJ151T	150 1/4W [M]
R678	ERDS2TJ184T	180K 1/4W [M]
R679	ERD25FVJ151T	150 1/4W [M]
R680	ERDS2TJ221T	220 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]
R697	ERDS2TJ221T	220 1/4W [M]
R698	ERDS2TJ221T	220 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	ERDS1FVJ561T	560 1/2W [M] ⚠
R722	ERDS2TJ123T	12K 1/4W [M]
R723	ERDS1FVJ100T	10 1/2W[M] ⚠
R724	ERDS1FVJ100T	10 1/2W[M] ⚠
R725	ERDS2TJ821T	820 1/4W [M]
R726	ERD25FVJ331T	330 1/4W [M]
R727	ERD25FVJ331T	330 1/4W [M]
R729	ERDS2TJ684T	680K 1/4W [M]
R730	ERDS1FVJ5R6T	5.6 1/2W [M]
R732	ERDS1FVJ150T	15 1/2W [M] ⚠
R751	ERC12ZGK335D	3.3M 1/2W [M] ⚠

Ref No.	Part No.	Values & Remarks
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 1/2W [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]
R791	ERDS2TJ223T	22K 1/4W [M]
R792	ERDS2TJ223T	22K 1/4W [M]
R793	ERDS2TJ223T	22K 1/4W [M]
R794	ERDS2TJ223T	22K 1/4W [M]
R795	ERDS2TJ223T	22K 1/4W [M]
R796	ERDS2TJ223T	22K 1/4W [M]
R797	ERDS2TJ682T	6.8K 1/4W [M]
R798	ERDS2TJ223T	22K 1/4W [M]
R799	ERDS2TJ682T	6.8K 1/4W [M]
R901	ERDS2TJ102T	1K 1/4W [M]
R906	ERDS2TJ104T	100K 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]
R913	ERDS2TJ103T	10K 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]
R926	ERDS2TJ121T	120 1/4W [M]
R928	ERDS2TJ121T	120 1/4W [M]
R929	ERDS2TJ101T	100 1/4W [M]
R930	ERDS2TJ101T	100 1/4W [M]
R931	ERDS2TJ151T	150 1/4W [M]
R932	ERDS2TJ151T	150 1/4W [M]
R933	ERDS2TJ151T	150 1/4W [M]
R934	ERDS2TJ151T	150 1/4W [M]
R935	ERDS2TJ151T	150 1/4W [M]
R936	ERDS2TJ104T	100K 1/4W [M]
R937	ERDS2TJ104T	100K 1/4W [M]
R943	ERDS2TJ102T	1K 1/4W [M]

Ref No.	Part No.	Values & Remarks
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]
R958	ERDS2TJ123T	12K 1/4W [M]
R960	ERDS2TJ102T	1K 1/4W [M]
R961	ERDS2TJ122T	1.2K 1/4W [M]
R962	ERDS2TJ152T	1.5K 1/4W [M]
R963	ERDS2TJ182T	1.8K 1/4W [M]
R964	ERDS2TJ222T	2.2K 1/4W [M]
R965	ERDS2TJ332T	3.3K 1/4W [M]
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]
R975	ERDS2TJ332T	3.3K 1/4W [M]
R976	ERDS2TJ472T	4.7K 1/4W [M]
R980	ERDS2TJ102T	1K 1/4W [M]
R981	ERDS2TJ122T	1.2K 1/4W [M]
R982	ERDS2TJ152T	1.5K 1/4W [M]
R983	ERDS2TJ182T	1.8K 1/4W [M]
R984	ERDS2TJ222T	2.2K 1/4W [M]
R990	ERDS2TJ153T	15K 1/4W [M]
R1001	ERDS2TJ102T	1K 1/4W [M]
R1002	ERDS2TJ102T	1K 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]
R1013	ERDS2TJ103T	10K 1/4W [M]
R1014	ERDS2TJ104T	100K 1/4W [M]
R1051	ERDS2TJ393T	39K 1/4W [M]

Ref No.	Part No.	Values & Remarks
R1052	ERDS2TJ105T	1M 1/4W [M]
R1053	ERDS2TJ102T	1K 1/4W [M]
R1055	ERDS2TJ224T	220K 1/4W [M]
R1056	ERDS2TJ153T	15K 1/4W [M]
R1057	ERDS2TJ822T	8.2K 1/4W [M]
R1058	ERDS2TJ222T	2.2K 1/4W [M]
R1061	ERDS2TJ222T	2.2K 1/4W [M]
R1062	ERDS2TJ273T	27K 1/4W [M]
R1063	ERDS2TJ332T	3.3K 1/4W [M]
R1151	ERDS2TJ473T	47K 1/4W [M]
R1152	ERDS2TJ473T	47K 1/4W [M]
R1154	ERDS2TJ273T	27K 1/4W [M]
R1155	ERDS2TJ393T	39K 1/4W [M]
R1156	ERDS2TJ393T	39K 1/4W [M]
R1158	ERDS2TJ104T	100K 1/4W [M]
R1160	ERDS2TJ104T	100K 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]

Ref No.	Part No.	Values & Remarks
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]
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]
C301	ECEA1HKA3R3B	3.3 50V [M]
C302	ECEA0JKA330B	33 6.3V [M]
C304	ECBT1H470J5	47P 50V [M]
C305	ECA0JM471B	470 6.3V [M]
C308	ECEA0JKA101B	100 6.3V [M]
C309	ECEA0JKA101B	100 6.3V [M]
C310	ECBT1E103ZF5	0.01 25V [M]
C311	ECEA1EKA4R7B	4.7 25V [M]
C312	ECEA1EKA4R7B	4.7 25V [M]
C329	ECBT1H470J5	47P 50V [M]
C330	ECBT1H470J5	47P 50V [M]
C331	ECBT1C122KR5	1200P 16V [M]
C332	ECEA1HKA010B	1 50V [M]
C333	ECEA1HKA010B	1 50V [M]
C334	ECBT1H270JU5	27P 50V [M]
C335	ECBT1H220GC5	22P 50V [M]

Ref No.	Part No.	Values & Remarks
C336	ECBT1H220JC5	22P 50V [M]
C337	ECBT1H220JC5	22P 50V [M]
C338	ECBT1H101KB5	100P 50V [M]
C339	ECBT1H101KB5	100P 50V [M]
C340	ECBT1H101KB5	100P 50V [M]
C341	ECEA0JKA101B	100 6.3V [M]
C342	ECBT1E103ZF5	0.01 25V [M]
C351	ECEA0JKA101B	100 6.3V [M]
C352	ECEA0JKA101B	100 6.3V [M]
C354	ECBT1H104ZF5	0.1 50V [M]
C355	ECBT1H104ZF5	0.1 50V [M]
C357	ECBT1E103ZF5	0.01 25V [M]
C358	ECBT1E103ZF5	0.01 25V [M]
C373	ECEA1CKA470B	47 16V [M]
C374	ECEA1CKA470B	47 16V [M]
C375	ECEA1CKA470B	47 16V [M]
C381	ECEA1HKA3R3B	3.3 50V [M]
C382	ECEA1HKA3R3B	3.3 50V [M]
C383	ECEA1HKA3R3B	3.3 50V [M]
C384	ECEA1HKA3R3B	3.3 50V [M]
C385	ECEA1HKA3R3B	3.3 50V [M]
C386	ECEA1HKA3R3B	3.3 50V [M]
C387	ECEA1HKA3R3B	3.3 50V [M]
C388	ECEA1HKA3R3B	3.3 50V [M]
C401	ECEA1VKA4R7B	4.7 10V [M]
C402	ECEA1VKA4R7B	4.7 10V [M]
C403	ECBT1E103ZF5	0.01 25V [M]
C404	ECBT1E103ZF5	0.01 25V [M]
C405	ECBT1H101KB5	100P 50V [M]
C406	ECBT1H101KB5	100P 50V [M]
C409	ECA1EM220B	22 25V [M]
C410	ECA1EM220B	22 25V [M]
C411	ECBT1H101KB5	100P 50V [M]
C412	ECBT1H101KB5	100P 50V [M]
C413	ECA1CM100B	10 16V [M]
C414	ECA1CM100B	10 16V [M]
C415	ECBT1E103ZF5	0.01 25V [M]
C416	ECBT1E103ZF5	0.01 25V [M]
C428	ECEA1HKA3R3B	3.3 50V [M]
C429	ECBT1H101KB5	100P 50V [M]
C430	ECBT1H101KB5	100P 50V [M]
C431	ECA1CM100B	10 16V [M]
C432	ECA1CM100B	10 16V [M]
C440	ECBT1E103ZF5	0.01 25V [M]
C451	ECEA1HKA4R7B	4.7 50V [M]
C452	ECEA1HKA4R7B	4.7 50V [M]
C453	ECBT1H101KB5	100P 50V [M]
C454	ECBT1H101KB5	100P 50V [M]

Ref No.	Part No.	Values & Remarks
C455	ECBT1H102KB5	1000P 50V [M]
C456	ECBT1H102KB5	1000P 50V [M]
C457	ECEA1AKA330B	33 10V [M]
C458	ECEA1AKA330B	33 10V [M]
C459	ECFR1E223KR	0.022 25V [M]
C460	ECFR1E223KR	0.022 25V [M]
C461	ECFR1E682KR	6800P 25V [M]
C462	ECFR1E682KR	6800P 25V [M]
C463	ECEA1HKA4R7B	4.7 50V [M]
C464	ECEA1HKA4R7B	4.7 50V [M]
C465	ECBT1E103ZF5	0.01 25V [M]
C466	ECBT1E103ZF5	0.01 25V [M]
C471	ECEA1VKA4R7B	4.7 10V [M]
C472	ECEA1VKA4R7B	4.7 10V [M]
C473	ECBT1E103ZF5	0.01 25V [M]
C474	ECBT1E103ZF5	0.01 25V [M]
C475	ECBT1H101KB5	100P 50V [M]
C480	ECBT1E103ZF5	0.01 25V [M]
C482	ECEA1HKA4R7B	4.7 50V [M]
C484	ECEA1HKA4R7B	4.7 50V [M]
C501	ECFR1E333KR	0.033 25V [M]
C502	ECFR1E333KR	0.033 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]
C507	ECBT1E103ZF5	0.01 25V [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 10V [M]
C520	ECEA1VKA4R7B	4.7 10V [M]
C521	ECEA1VKA4R7B	4.7 10V [M]
C522	ECEA1VKA4R7B	4.7 10V [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]

Ref No.	Part No.	Values & Remarks
C532	ECBT1E103ZF5	0.01 25V [M]
C533	ECEA1CKA100B	10 16V [M]
C534	ECEA1CKA100B	10 16V [M]
C535	ECBT1H104ZF5	0.1 50V [M]
C536	ECBT1E103ZF5	0.01 25V [M]
C537	ECEA1CKA100B	10 16V [M]
C538	ECEA1CKA100B	10 16V [M]
C539	ECEA1CKA100B	10 16V [M]
C541	ECEA1CKA470B	47 16V [M]
C542	ECEA1CKA470B	47 16V [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	ECEA1HKA3R3B	3.3 50V [M]
C562	ECEA1HKA3R3B	3.3 50V [M]
C563	ECBT1H101KB5	100P 50V [M]
C565	ECBT1H221KB5	220P 50V [M]
C567	ECBT1E103ZF5	0.01 25V [M]
C568	ECBT1E103ZF5	0.01 25V [M]
C581	ECEA0JKA101B	100 6.3V [M]
C582	ECEA0JKA101B	100 6.3V [M]
C583	ECEA0JKA101B	100 6.3V [M]
C584	ECEA0JKA101B	100 6.3V [M]
C601	ECEA1HKN3R3B	3.3 50V [M]
C602	ECEA1HKN3R3B	3.3 50V [M]
C603	ECBT1H681KB5	680P 50V [M]
C604	ECBT1H681KB5	680P 50V [M]
C605	ECA1JM330B	33 6.3V [M]
C606	ECA1JM330B	33 6.3V [M]
C607	ECCR1H100K5	10P 50V [M]
C608	ECCR1H100K5	10P 50V [M]
C609	ECBT1H221KB5	220P 50V [M]
C610	ECBT1H221KB5	220P 50V [M]
C611	ECQV1H473JM3	0.047 50V [M]
C612	ECQV1H473JM3	0.047 50V [M]
C613	ECBT1H681KB5	680P 50V [M]
C614	ECBT1H681KB5	680P 50V [M]
C615	ECA1JM330B	33 6.3V [M]
C616	ECEA2AU100B	10 100V [M]
C617	ECEA1JU220B	22 63V [M]
C618	ECEA2AN2R2SB	2.2 100V [M]
C619	ECBT1H102KB5	1000P 50V [M]
C621	ECEA2AU100B	10 100V [M]
C622	ECEA2AU100B	10 100V [M]
C639	ECKR1H122KB5	1200P 50V [M]
C640	ECKR1H122KB5	1200P 50V [M]
C649	ECEA2AU100B	10 100V [M]
C650	ECEA2AU100B	10 100V [M]
C651	ECEA1HKN3R3B	3.3 50V [M]
C652	ECEA1HKN3R3B	3.3 50V [M]
C653	ECBT1H681KB5	680P 50V [M]
C654	ECBT1H681KB5	680P 50V [M]
C655	ECA1JM330B	33 6.3V [M]
C656	ECA1JM330B	33 6.3V [M]
C657	ECCR1H100K5	10P 50V [M]
C658	ECCR1H100K5	10P 50V [M]
C659	ECBT1H221KB5	220P 50V [M]
C660	ECBT1H221KB5	220P 50V [M]
C661	ECQV1H473JM3	0.047 50V [M]
C662	ECQV1H473JM3	0.047 50V [M]
C663	ECBT1H681KB5	680P 50V [M]
C664	ECBT1H681KB5	680P 50V [M]
C667	ECEA1HKN3R3B	3.3 50V [M]
C668	ECBT1H681KB5	680P 50V [M]
C669	ECA1JM330B	33 6.3V [M]
C670	ECCR1H100K5	10P 50V [M]
C671	ECEA2AU100B	10 100V [M]
C672	ECEA2AU100B	10 100V [M]
C674	ECQV1H473JM3	0.047 50V [M]
C675	ECBT1H681KB5	680P 50V [M]
C680	ECBT1H221KB5	220P 50V [M]
C681	ECEA1HN100SB	10 50V [M]
C682	ECEA1HN100SB	10 50V [M]
C685	ECBT1E103ZF5	0.01 25V [M]
C701	ECBT1E103ZF5	0.01 25V [M]
C702	ECQE2104KF3	0.1 250V [M]
C703	ECES1KV752UX	7500 100V [M] ⚠
C704	ECES1KV752UX	7500 100V [M] ⚠
C705	EC0S1VP562BB	5600P 10V [M]
C706	EC0S1VP562BB	5600P 10V [M]
C707	ECA1VM101B	100 10V [M]
C708	ECKR1H103ZF5	0.01 50V [M]
C709	ECEA1CKA330B	33 16V [M]
C710	ECBT1E103ZF5	0.01 25V [M]
C711	ECKR1H103ZF5	0.01 50V [M]
C712	ECEA1HKA100B	10 50V [M]
C713	ECKR1H103ZF5	0.01 50V [M]
C714	ECEA1EKA470B	47 25V [M]
C715	ECEA1CKA101B	100 16V [M]
C721	ECQE2104KF3	0.1 250V [M]
C751	ECKWNS102MBM	0.001 400V [M] ⚠
C752	ECKR1H103ZF5	0.01 50V [M]
C753	ECA1EM102B	1000 25V [M]
C754	ECBT1E103ZF5	0.01 25V [M]
C755	ECEA1CKA470B	47 16V [M]
C757	ECEA1CKA100B	10 16V [M]
C758	ECEA1AKA101B	100 10V [M]
C771	ECEA1HKA4R7B	4.7 50V [M]
C772	ECEA1HKA4R7B	4.7 50V [M]
C773	ECBT1E223ZF5	0.022 25V [M]
C774	ECA0JM101B	01 6.3V [M]
C775	ECFR1E223KR	0.022 25V [M]
C901	ECA0JM102B	02 6.3V [M]
C902	ECBT1H104ZF5	0.1 50V [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	ECEA1VKA220B	22 10V [M]
C910	ECEA1VKA220B	22 10V [M]
C911	ECEA1VKA220B	22 10V [M]
C912	ECEA1VKA220B	22 10V [M]
C913	ECEA1VKA100B	10 10V [M]
C914	ECEA1VKA100B	10 10V [M]
C916	ECEA1HKA010B	1 50V [M]
C919	ECBT1E103ZF5	0.01 25V [M]
C920	ECEA1HKA010B	1 50V [M]
C932	ECBT1H101KB5	100P 50V [M]
C933	ECBT1H101KB5	100P 50V [M]
C934	ECBT1H101KB5	100P 50V [M]
C937	ECBT1H101KB5	100P 50V [M]
C941	ECBT1H101KB5	100P 50V [M]
C948	ECBT1H101KB5	100P 50V [M]
C949	ECBT1H101KB5	100P 50V [M]
C951	ECBT1H101KB5	100P 50V [M]
C953	ECBT1H101KB5	100P 50V [M]
C955	ECBT1H101KB5	100P 50V [M]
C956	ECBT1H101KB5	100P 50V [M]
C1001	ECEA1HKA010B	1 50V [M]
C1002	ECEA1HKA010B	1 50V [M]
C1003	ECEA1HKA3R3B	3.3 50V [M]
C1004	ECEA1HKA3R3B	3.3 50V [M]
C1005	ECEA1HKA010B	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	ECEA1HKAR47B	0.47 50V [M]
C1018	ECEA1HKA4R7B	4.7 50V [M]
C1019	ECEA1HKAR47B	0.47 50V [M]
C1020	ECEA1HKA4R7B	4.7 50V [M]
C1021	ECEA1HKAR15B	0.15 50V [M]
C1022	ECEA1HKA3R3B	3.3 50V [M]
C1023	ECQV1H154JM3	0.15 50V [M]
C1024	ECQV1H154JM3	0.15 50V [M]
C1025	ECEA1HKA3R3B	3.3 50V [M]
C1026	ECEA1HKAR15B	0.15 50V [M]
C1027	ECEA1HKA4R7B	4.7 50V [M]
C1028	ECEA1HKAR47B	0.47 50V [M]
C1029	ECEA1HKA4R7B	4.7 50V [M]
C1030	ECEA1HKAR47B	0.47 50V [M]
C1031	ECQV1H104JM3	0.1 50V [M]
C1032	ECQV1H104JM3	0.1 50V [M]
C1033	ECEA0JKA470B	47 6.3V [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	ECEA1HKA2R2B	2.2 50V [M]
C1052	ECEA1HKAR33B	0.33 50V [M]
C1053	ECEA1HKA3R3B	3.3 50V [M]
C1054	ECEA0JU221B	220 6.3V [M]
C1055	ECEA1HKAR47B	0.47 50V [M]
C1056	ECFR1E823KR	0.082 25V [M]
C1057	ECFR1E332KR	3300P 25V [M]
C1058	ECFR1E823KR	0.082 25V [M]
C1059	ECEA1CKA101B	100 16V [M]
C1060	ECBT1E223ZF5	0.022 25V [M]
C1062	ECBT1E223ZF5	0.022 25V [M]
C1063	ECEA1CKA101B	100 16V [M]
C1064	ECEA1HKA010B	1 50V [M]
C1065	ECBT1H681KB5	680P 50V [M]
C1067	ECBT1C152KR5	1500P 16V [M]
C1068	ECBT1C152KR5	1500P 16V [M]
C1069	ECEA1HKA010B	1 50V [M]

Ref No.	Part No.	Values & Remarks
C1070	ECEA1HKA3R3B	3.3 50V [M]
C1151	ECEA1HKA010B	1 50V [M]
C1152	ECFR1C683KR	0.068 16V [M]
C1153	ECFR1C273KR	0.027 16V [M]
C1154	ECEA1VKA4R7B	4.7 10V [M]
C1156	ECBT1E103ZF5	0.01 25V [M]
C1157	ECBT1E103ZF5	0.01 25V [M]
C1159	ECEA1HKA010B	1 50V [M]
C1161	ECBT1H101KB5	100P 50V [M]

Ref No.	Part No.	Values & Remarks

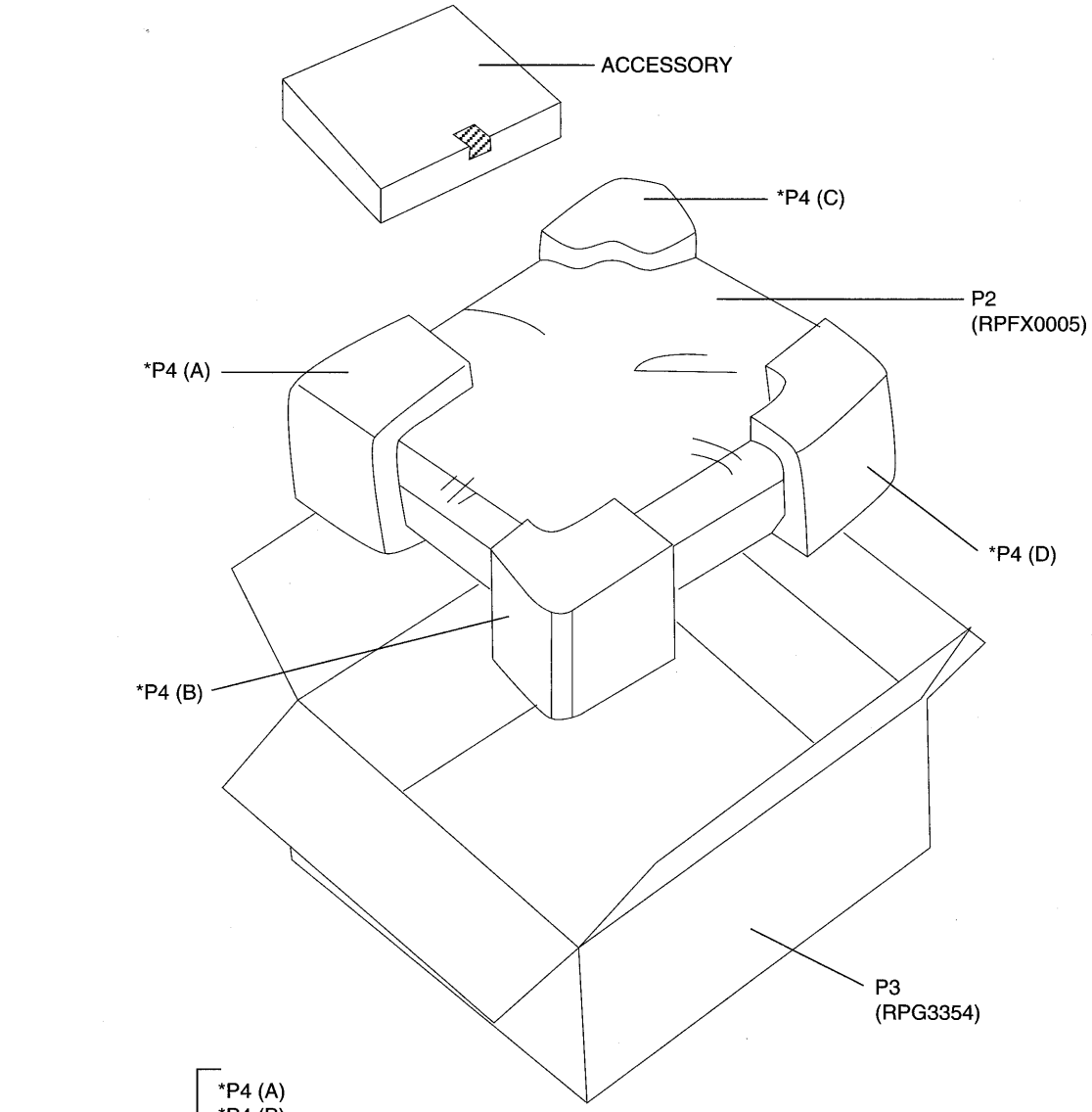
Ref No.	Part No.	Values & Remarks

Ref No.	Part No.	Values & Remarks

■ Packaging

ACCESSORY

P1 (SPSD152)	: ACCESSORY BOX
A1 (RAK-SA925MK)	: REMOTE CONTROL UNIT
A2 (RFKSAAX810PK)	: INSTR. MANUAL ASS'Y
A3 (RSA0006)	: FM ANTENNA
A4 (RSA0010)	: AM LOOP ANT
A5 (SJA172)	: AC CORD



P4 (RPN0966)
- *P4 (A)
- *P4 (B)
- *P4 (C)
- *P4 (D)

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