

Service Manual

System : SC-VC828

Tuner/Amplifier

Tuner/Amplifier
SA-EH40X

Please file and use this manual together with the service manual for Model No. SA-EH50X, Order No. AD9612218C3

Colour
(K) Black Type

Area
(GK) ... China.

This SA-EH40X is the model with deleting some functions from the SA-EH50X.
Only the difference from SA-EH50X are described in this service manual.

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For other contents, please refer to the SA-EH50X service manual (Order No. AD9612218C3).

Specifications

■ Amplifier Section

Power output:

- DIN 1 kHz, THD 1%, both channels driven ; 2 × 35 W (6 ohm)
- RMS 1 kHz, THD 10%, both channels driven ; 2 × 50 W (6 ohm)
- PMPO 1 kHz ; 1000 W (6 ohm)

Total harmonic distortion :

- Rated power at 1 kHz ; 1 % (6 ohm)
- Half power at 1 kHz ; 0.09 % (6 ohm)

Load impedance :

6 ohm – 8 ohm

S/N (rated power) :

80 dB

Frequency response :

50 Hz–30 kHz (–3 dB)

Input sensitivity/impedance :

EXTERNAL, AUX ; 250 mV/15 kohm

Output level :

EXTERNAL RECOUT ; 250 mV/1.5 kohm

V.BASS mode :

- Center frequency ; 60 Hz
- LEVEL (VOL –30 dB) ; +8 dB

■ AM tuner section

Frequency range :

- AM ; 522–1611 kHz (9 kHz steps)
- 530–1620 kHz (10 kHz steps)

Sensitivity (S/N 20 dB) :

500 µV/m

■ FM tuner section

Frequency range :

87.50–108.00 MHz (0.05 MHz steps)

Sensitivity :

1.8 µV (IHF usable)

S/N 26 dB ;

1.5 µV

S/N:

MONO ;

70 dB (75 dB, IHF)

Stereo separation at 1 kHz :

35 dB

Antenna terminal(s) :

75 ohm (unbalanced)

■ Timer section

Clock :

Quartz-lock type

Function :

Play timer (1 time daily)

REC timer (1 time daily)

Sleep (120 min., 30 min. intervals)

1 minute – 23 hours 59 minutes

(1 min intervals)

Setting :

■ General

Power consumption :

120 W

Power supply :

220 V, AC 50/60 Hz

Dimensions :

287(W)/118.5(H)/343.5(D) mm

Weight :

4.4 kg

Note: Specifications are subject to change without notice.
Weight and dimensions are approximate.

System/SC-VC828:

Sound processor: SH-EH40X, Tuner/Amplifier: SA-EH40X,
Front speakers: SB-VC858 (Made in MESA)

Compact disc changer: SL-EH60X,

Cassette deck: RS-EH60X,

⚠ 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.

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■ Schematic Diagram

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Notes:

- **S901** : Power "STANDBY ϕ /ON" switch (POWER STANDBY ϕ /ON)
- **S902** : Clock/timer switch (CLOCK/TIMER)
- **S903** : Record timer switch ($\oplus$ REC)
- **S904** : Play timer switch ($\oplus$ PLAY)
- **S905** : Tuning mode select switch (TUNING MODE)
- **S906** : Set switch (SET)
- **S907** : FM mode select switch (FM AUTO/MONO)
- **S908** : Source input select switch (INPUT SELECTOR)
- **S909** : Tuning down switch (TUNING ∇)
- **S910** : Tuning up switch (TUNING $\wedge$)
- **S911** : Tuner/band select switch (TUNER/BAND)
- **S912** : V.bass switch (V.BASS)
- **S913** : Karaoke switch (KARAOKE)
- **S914** : Echo switch (ECHO)
- **S915** : Vibrate switch (VIBRATE)
- **S916** : Chorus switch (CHORUS)
- **S917** : Wide switch (WIDE)
- **S918** : Key control on/off switch (KEY CON(CD) ON/OFF)
- **S919** : b switch (b)
- **S920** : $\#$ switch ($\#$)
- **VR401** : Microphone volume control (MIC VOL)
- **VR901** : Volume control (VOLUME)

- This schematic diagram may be modified at any time with the development of new technology.

- Indicated voltage values are the standard values for the unit measured by the DC electronic circuit tester (high-impedance) with the chassis taken as standard. Therefore, there may exist some errors in the voltage values, depending on the internal impedance of the DC circuit tester.

No mark : FM () : AM

- Important safety notice:

Components identified by $\triangle$ 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 and LSI are sensitive to static electricity.

Secondary trouble can be prevented by taking care during repair.

Cover the parts boxes made of plastics with aluminum foil.

Ground the soldering iron.

Put a conductive mat on the work table.

Do not touch the legs of IC or LSI with the fingers directly.

- Voltage and signal line

 : Positive voltage line

 : AM signal Line

 : AM OSC signal line

 : FM OSC signal line

 : Negative voltage line

 : Mic signal Line

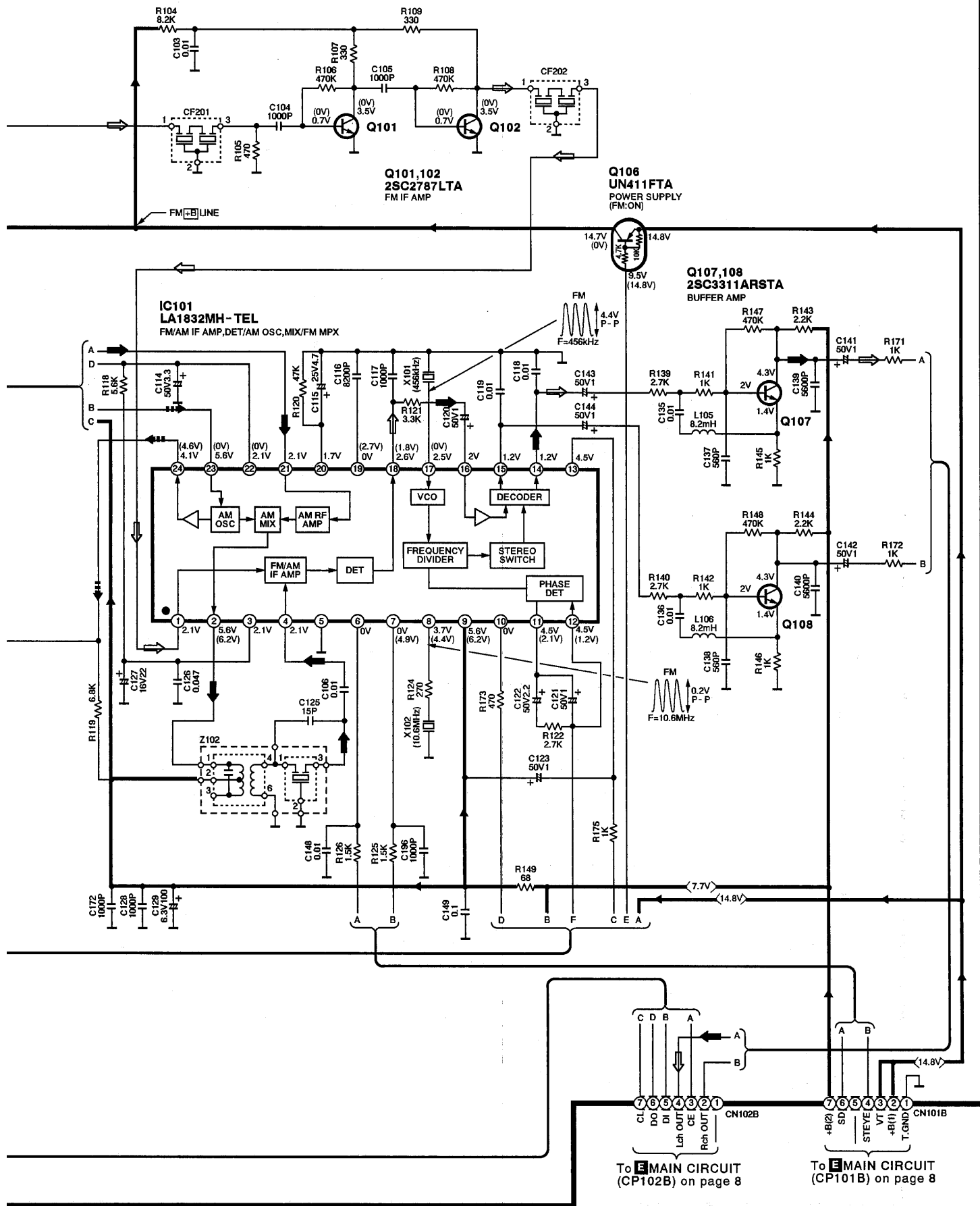
 : FM signal line



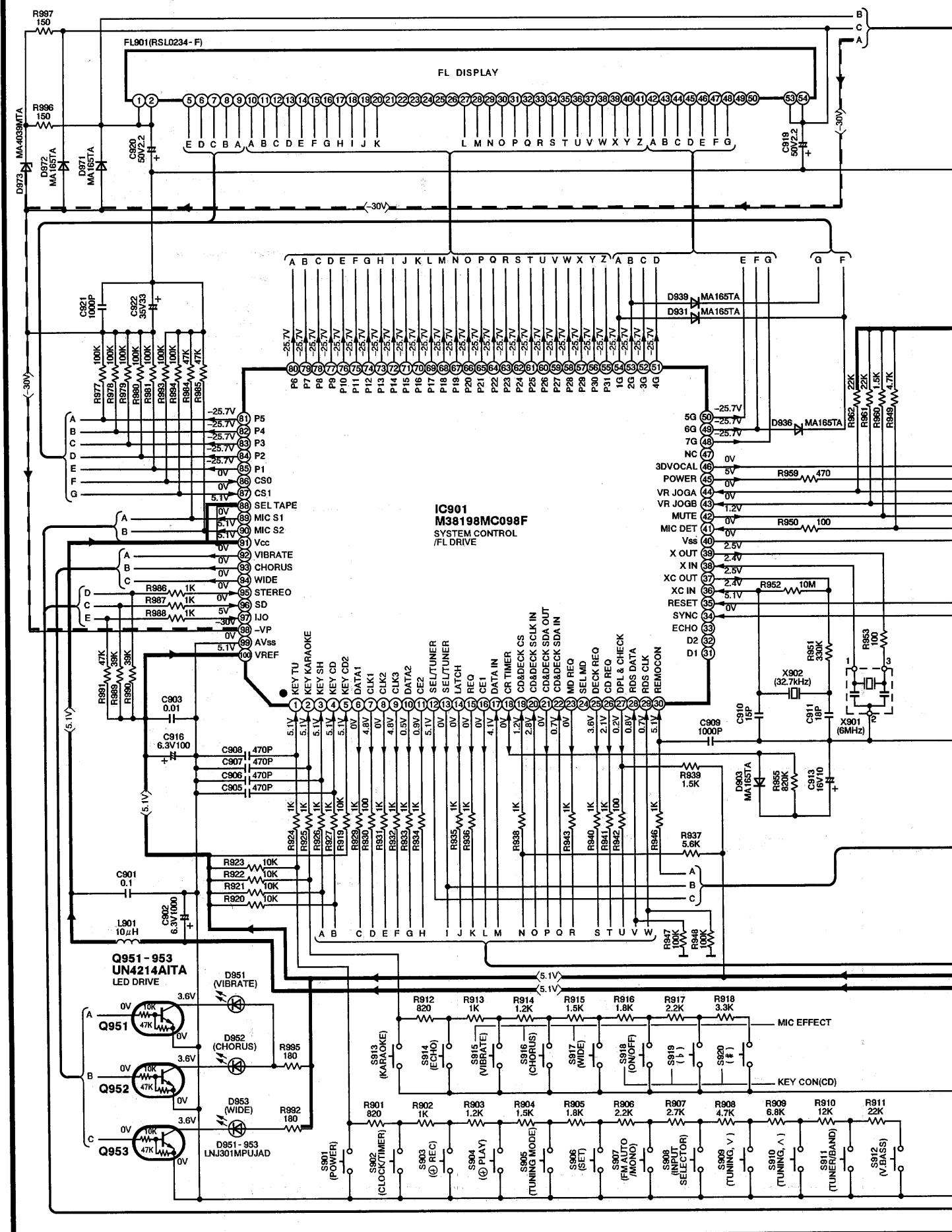
— : Positive voltage line
 ■■■ : AM OSC signal line

--- : Negative voltage line
 □□□ : FM signal line

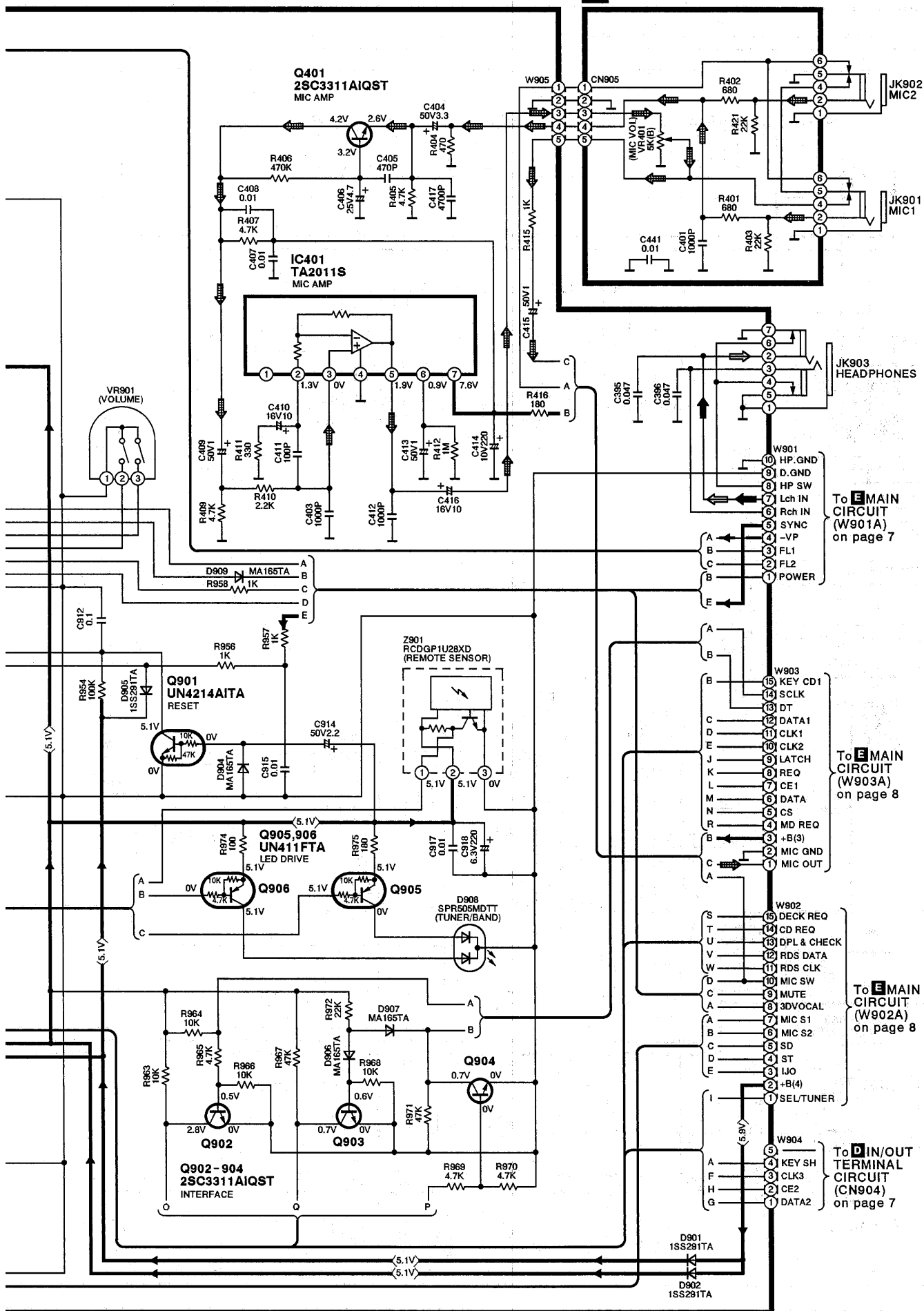
— : AM signal Line
 □□□ : FM OSC signal line

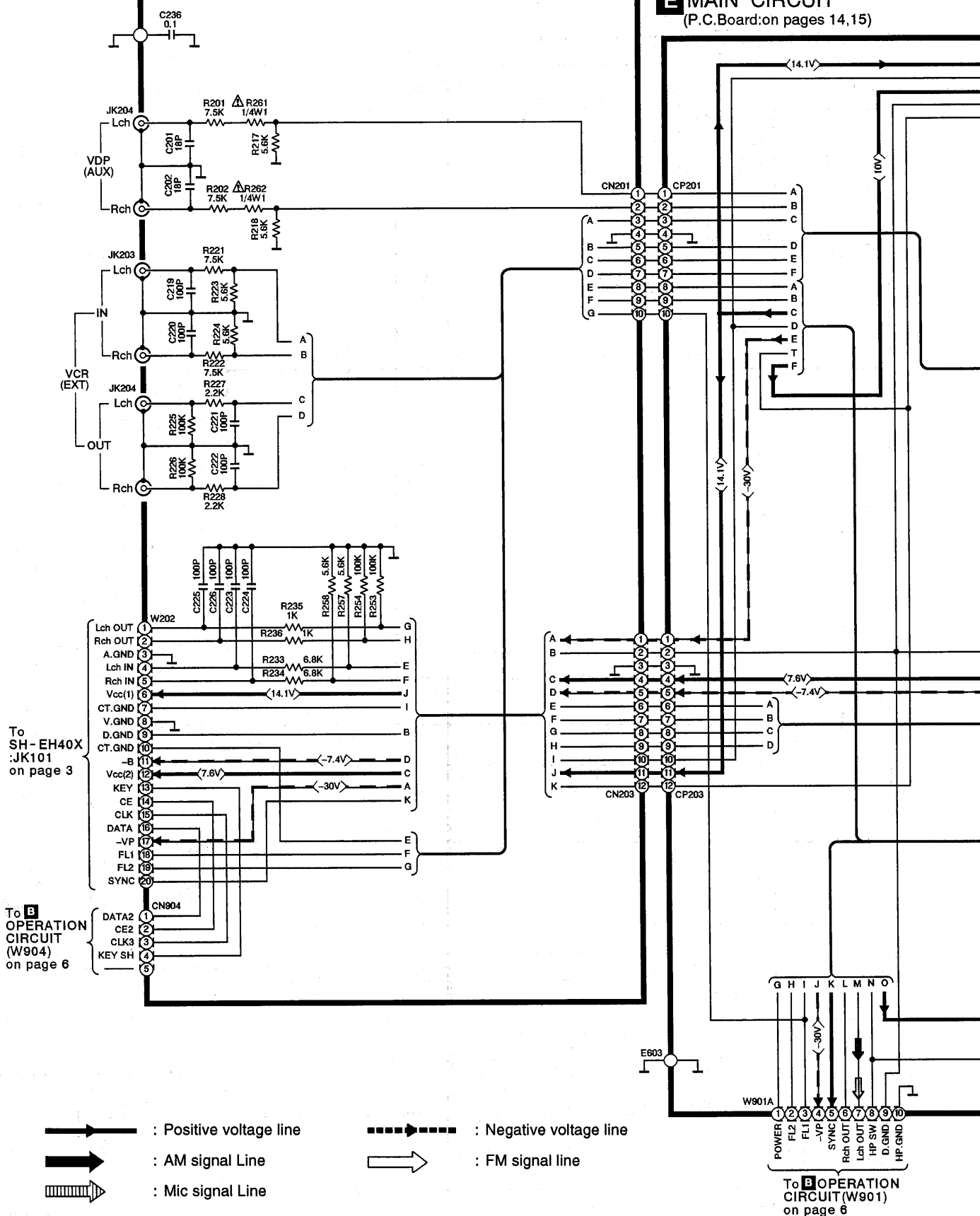


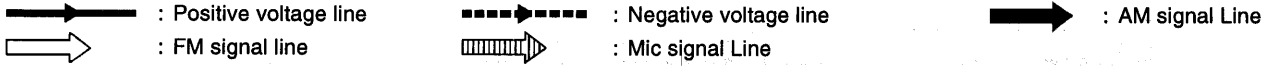
B OPERATION CIRCUIT (P.C.Board: on page 13)



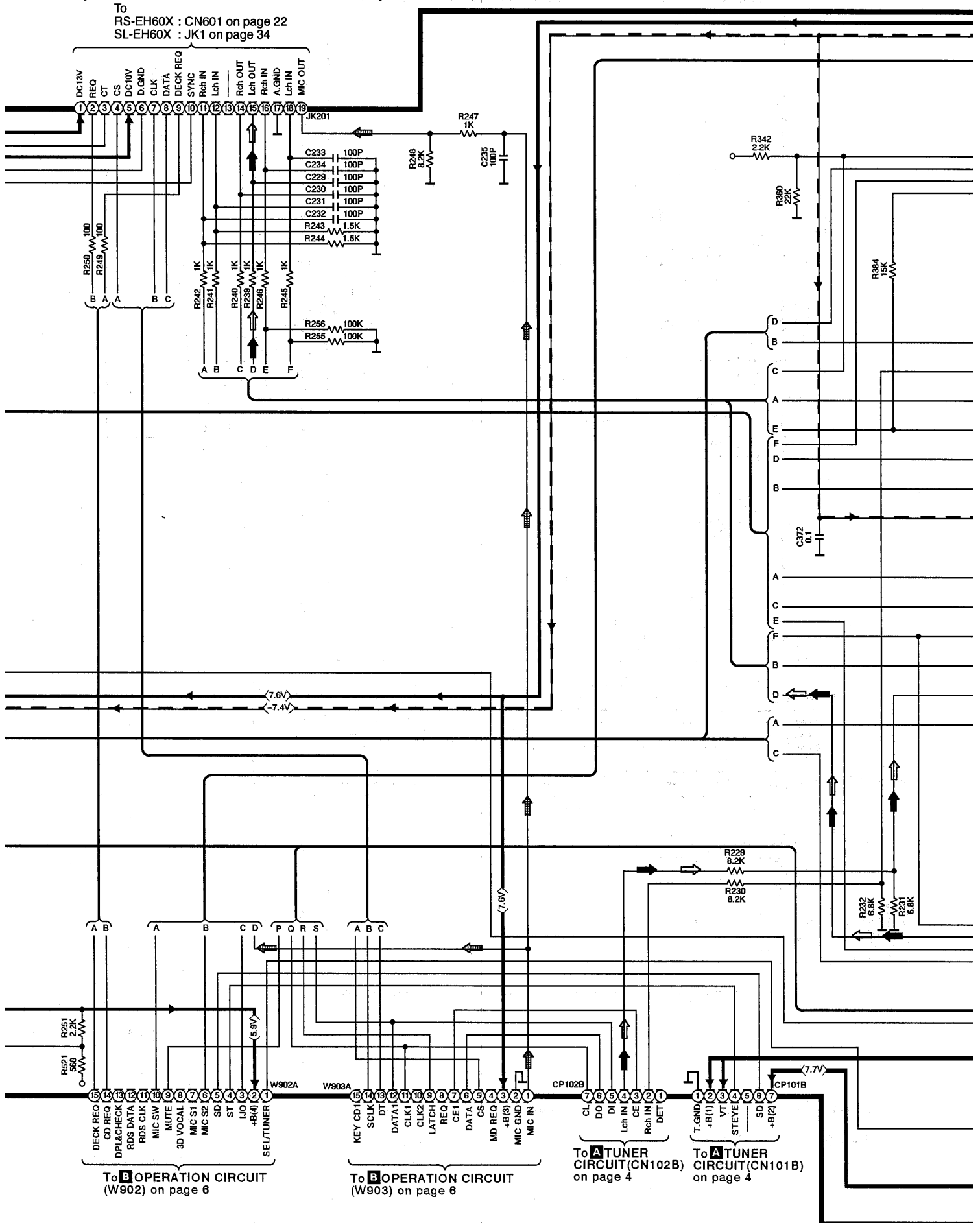
C MIC JACK CIRCUIT (P.C.Board: on page 13)

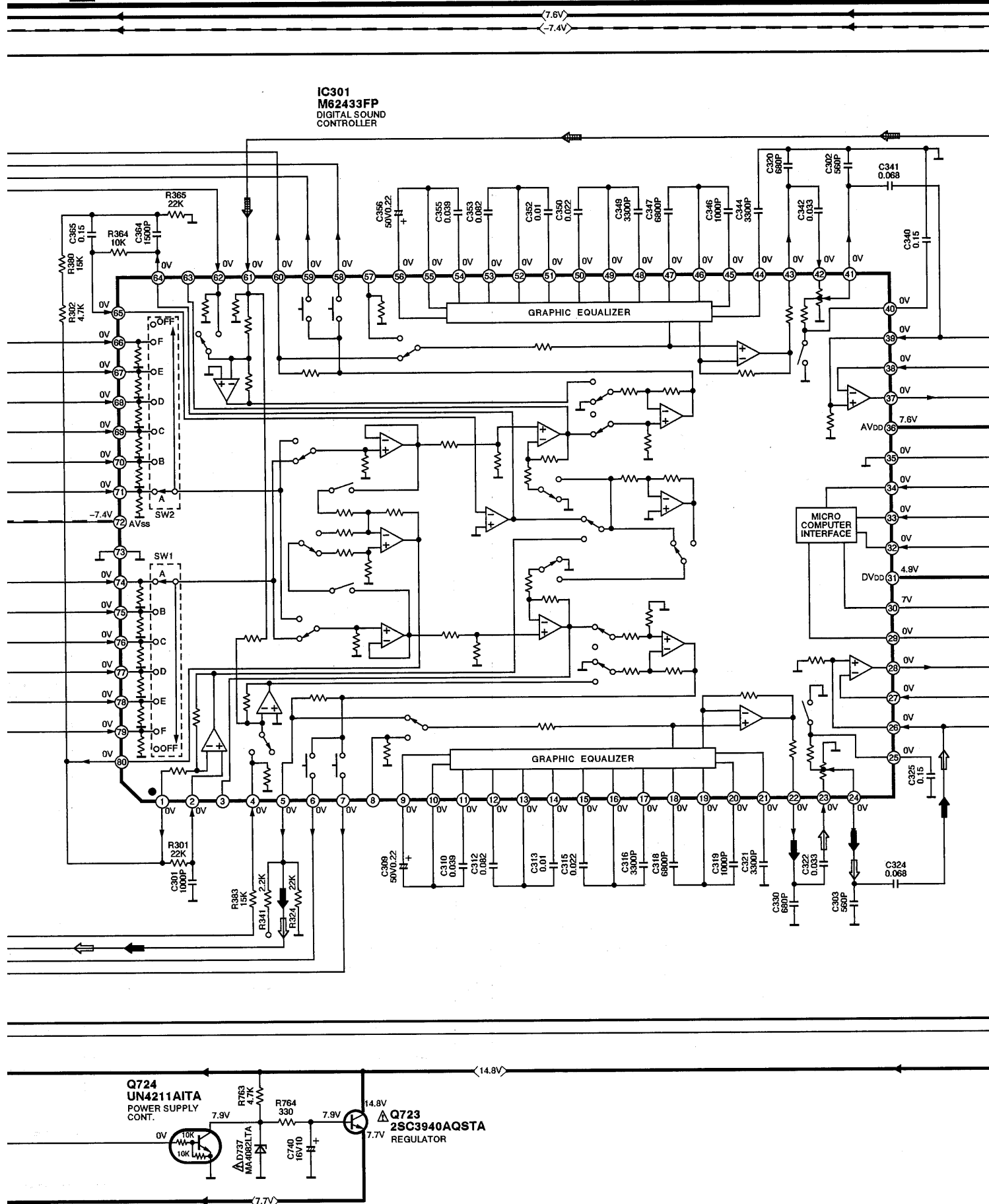


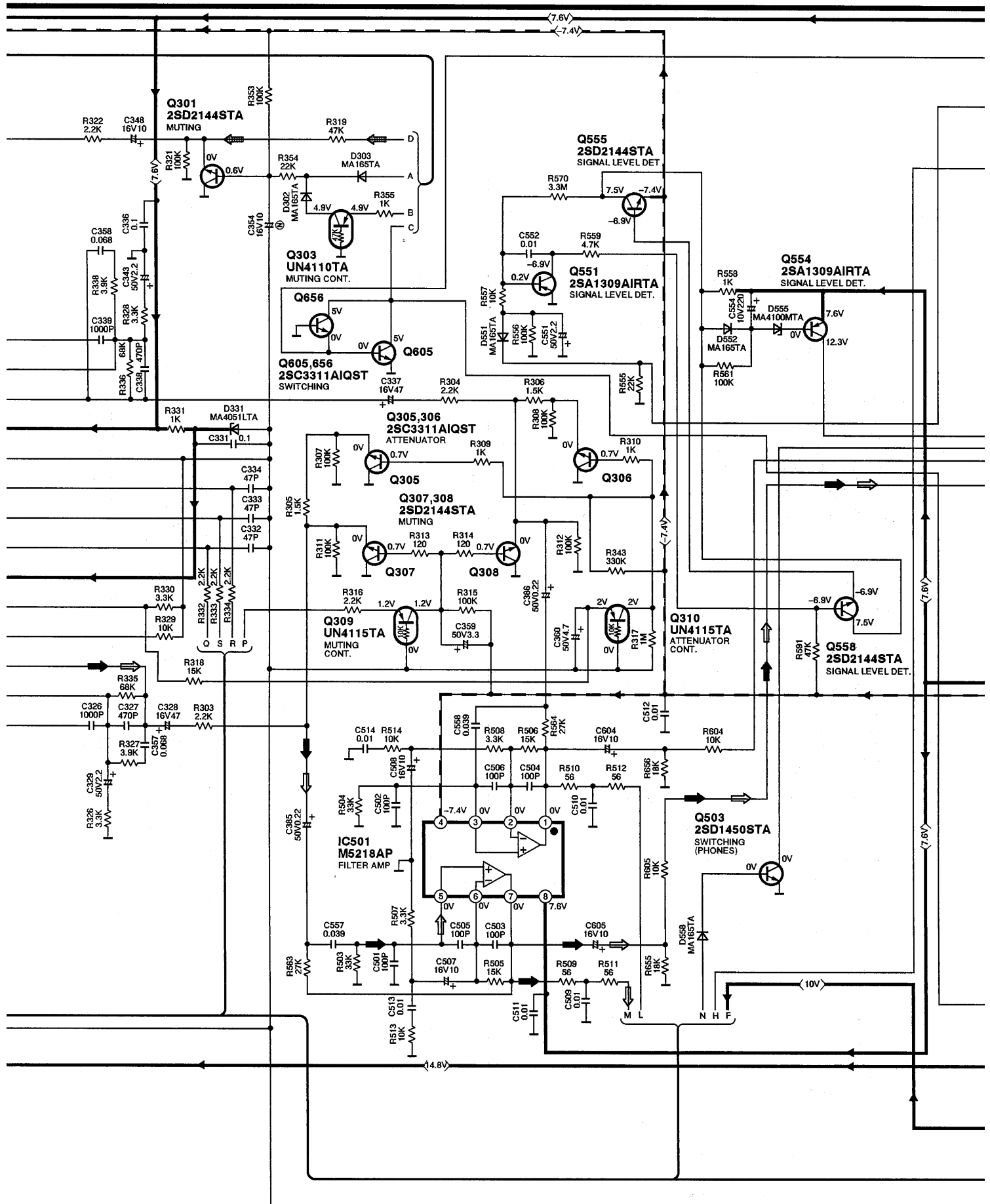
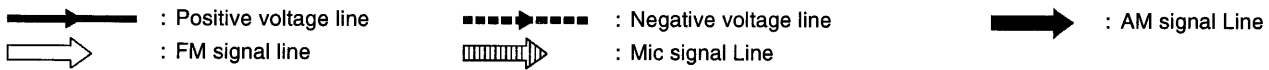
D IN/OUT TERMINAL CIRCUIT (P.C.Board: on page 14)**E** MAIN CIRCUIT
(P.C.Board: on pages 14, 15)



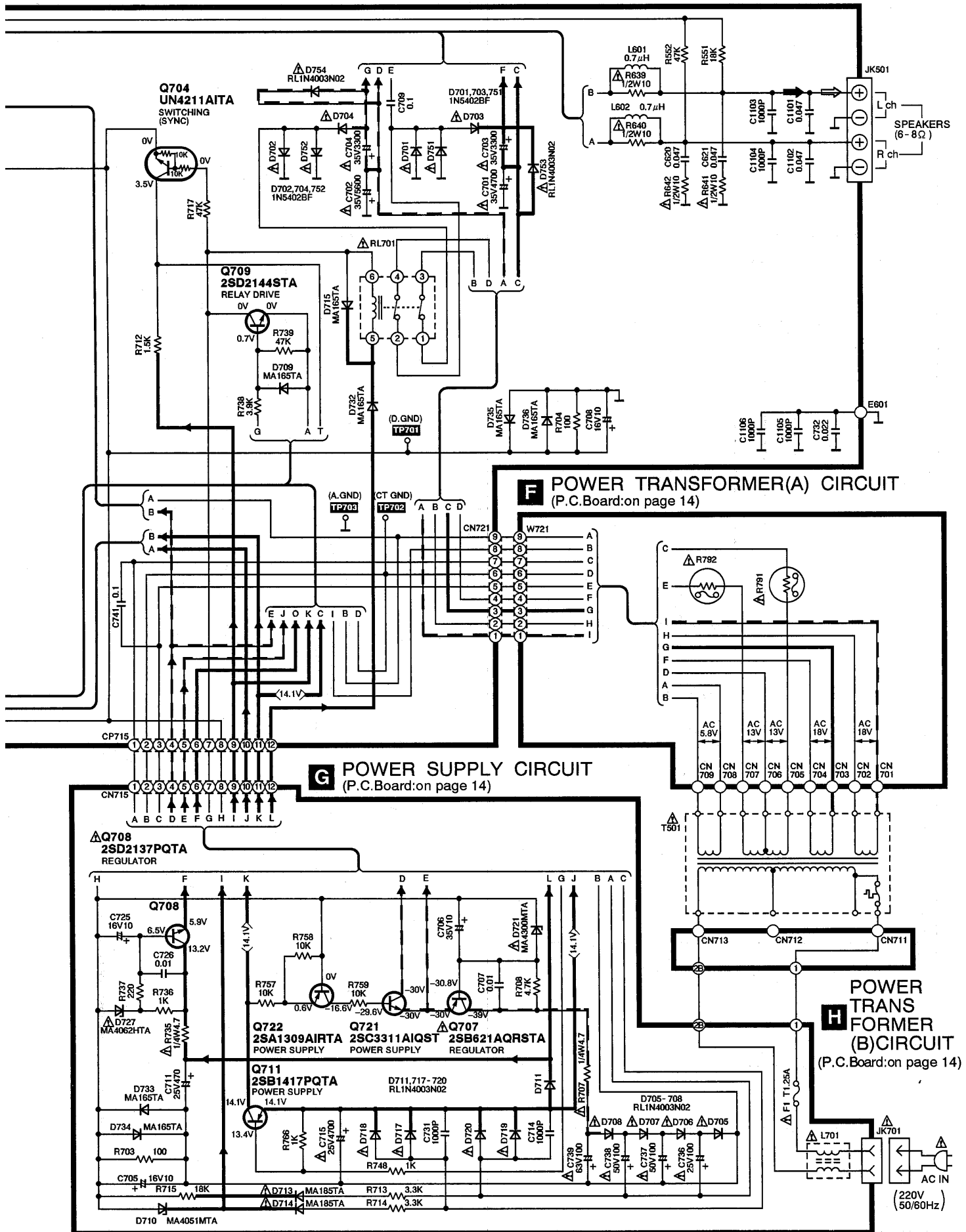
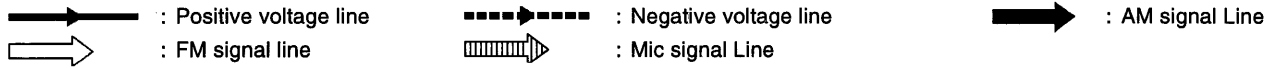
To RS-EH60X : CN601 on page 22
SL-EH60X : JK1 on page 34



E MAIN CIRCUIT (P.C.Board: on pages 14,15)


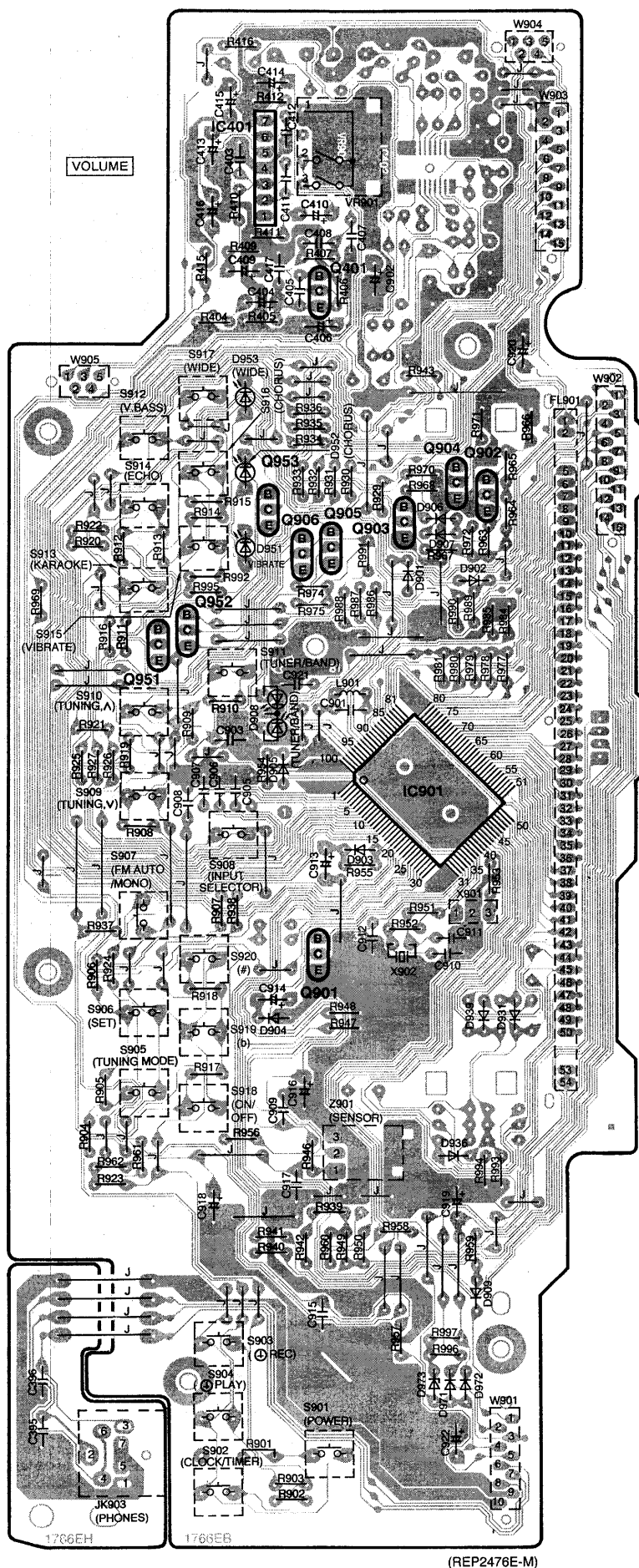






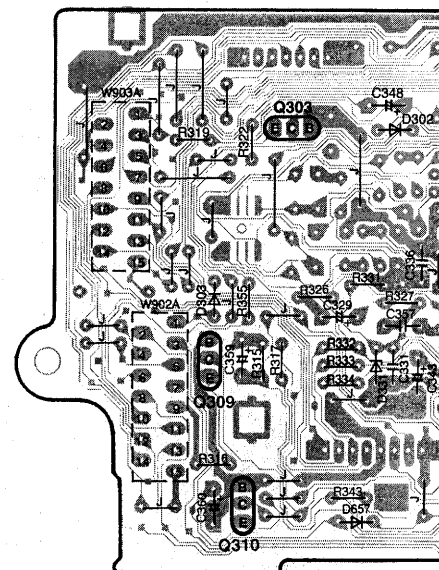
B OPERATION P.C.B.

Microphotograph of the back of the 1766EG chip. The chip is a square integrated circuit with a complex internal circuit pattern. Various components are labeled with callouts: C441, R421, R402, R403, R404, R401, R405, JK902, JK901, and C440. The chip is mounted on a printed circuit board (PCB) with various components labeled with callouts: C441, R421, R402, R403, R404, R401, R405, JK902, JK901, and C440. The chip is labeled 1766EG and (REP2476E-M). The MIC and MIC VOL pins are indicated on the right side of the chip.

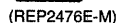


(REP2476E-M)

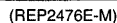
D IN/OUT TERMINAL P.C.B.

**E MAIN P.C.B.**

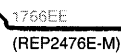
G POWER SUPPLY P.C.B.



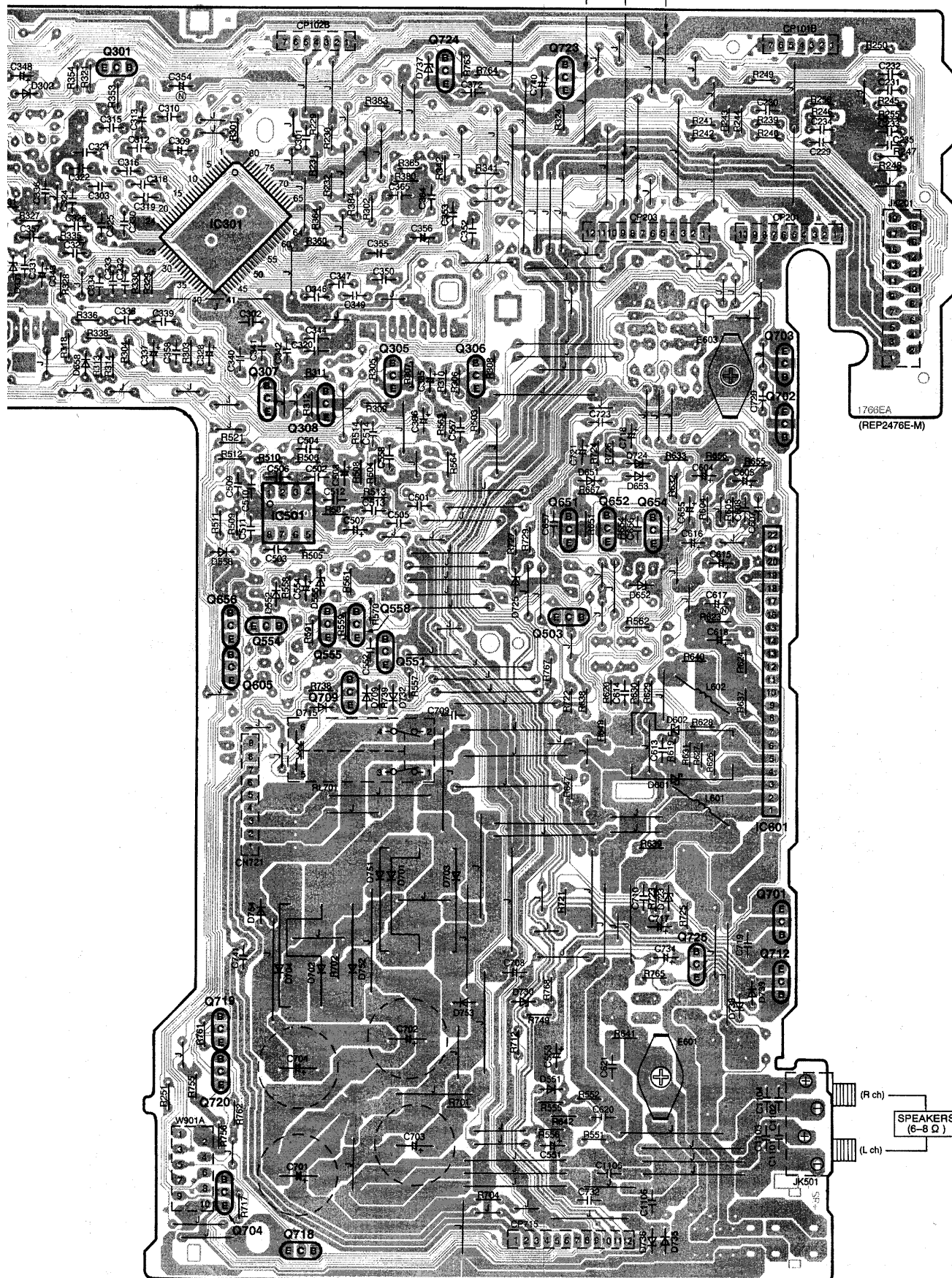
F POWER TRANSFORMER (A) P.C.B.



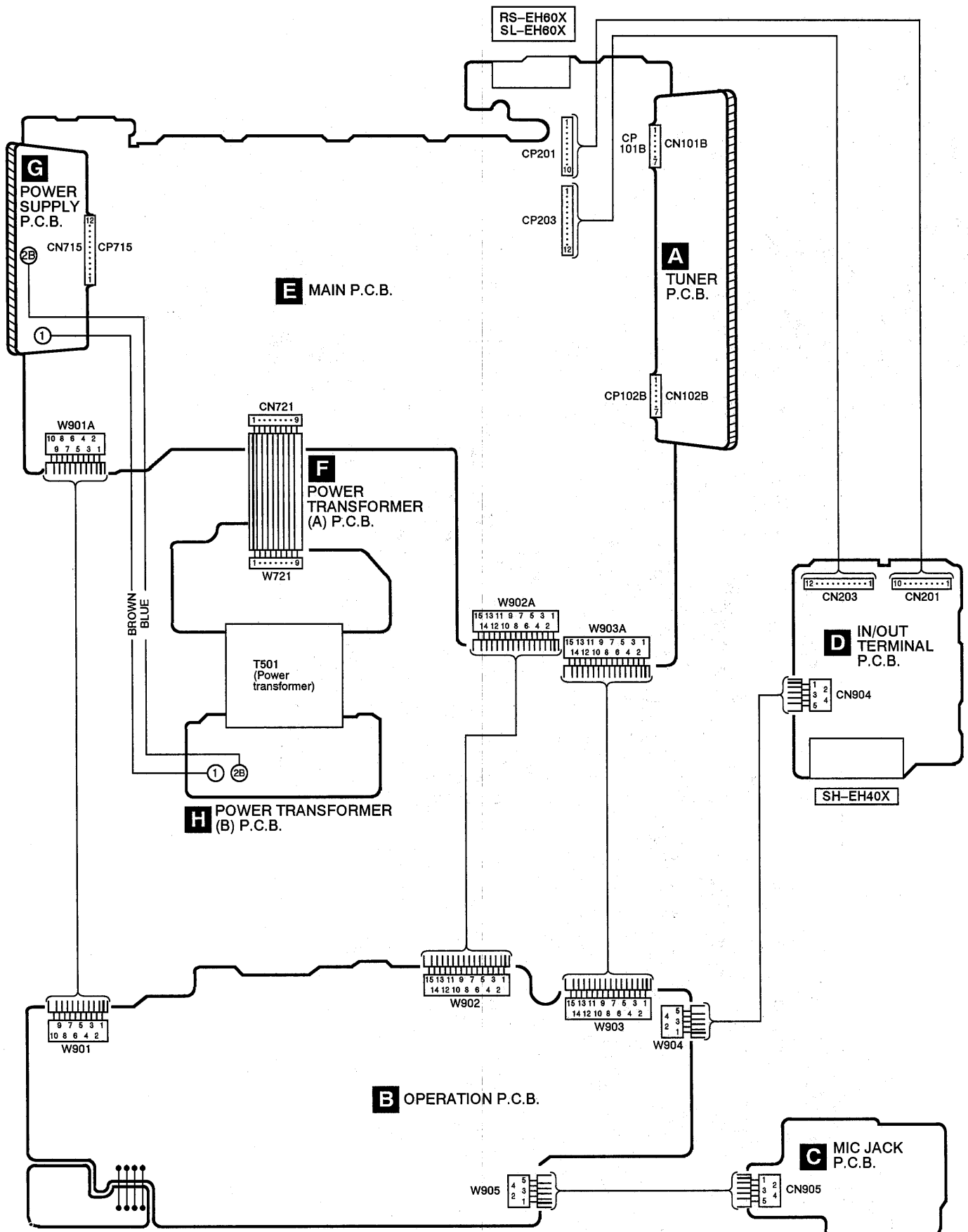
H POWER TRANSFORMER (B) P.C.B.



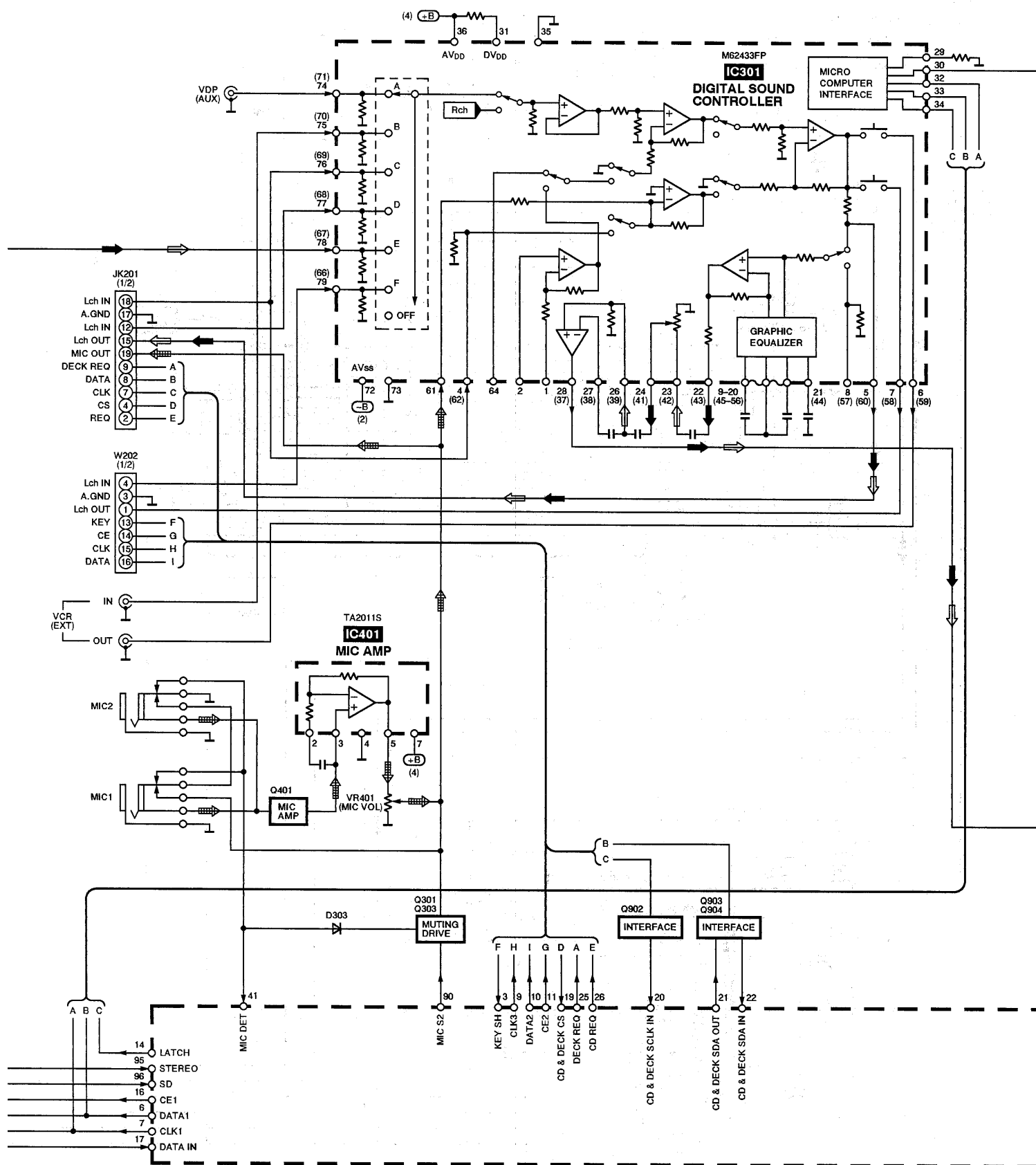
(D.GND)(CTGND)(A.GND)
TP701 TP702 TP703

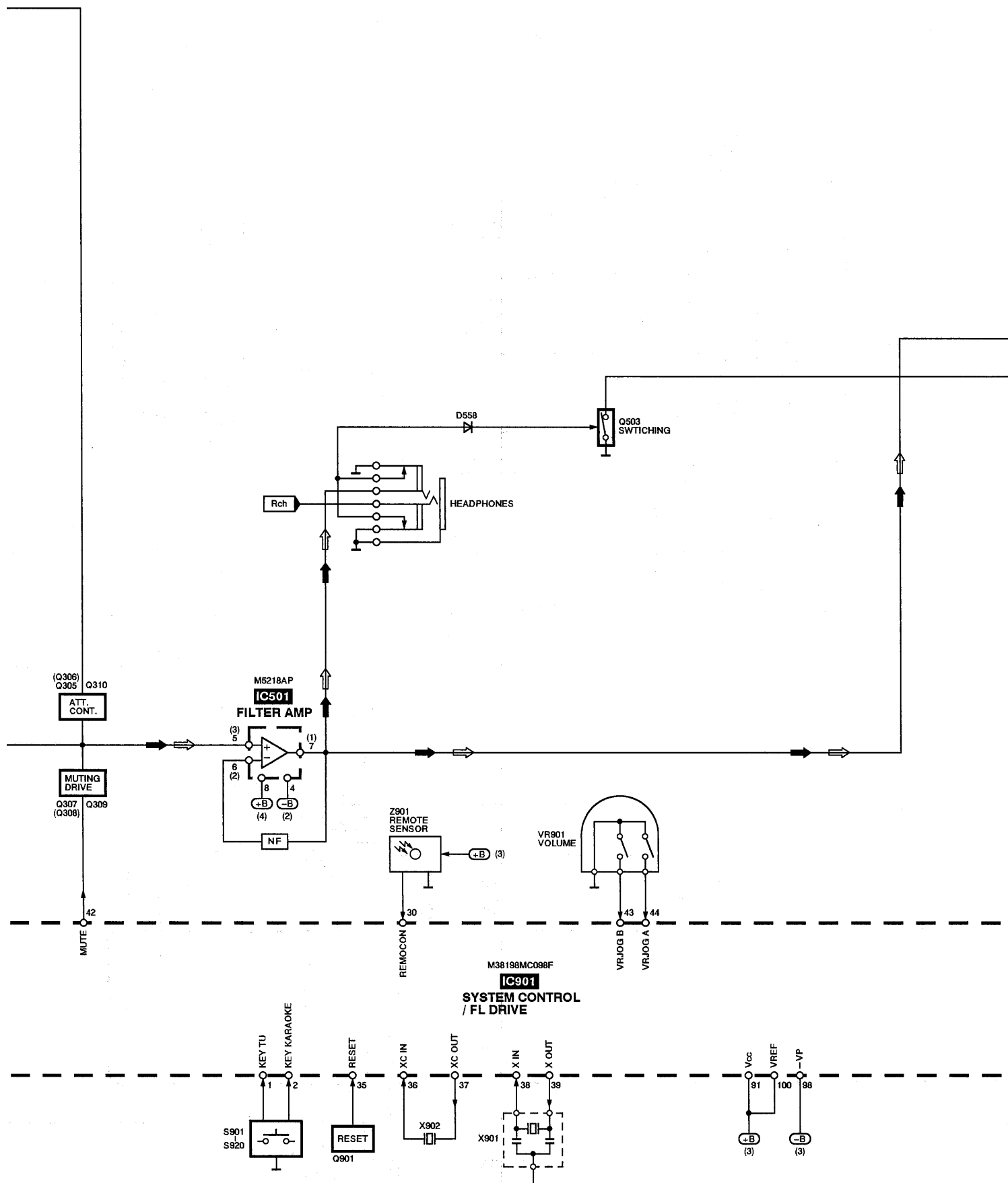


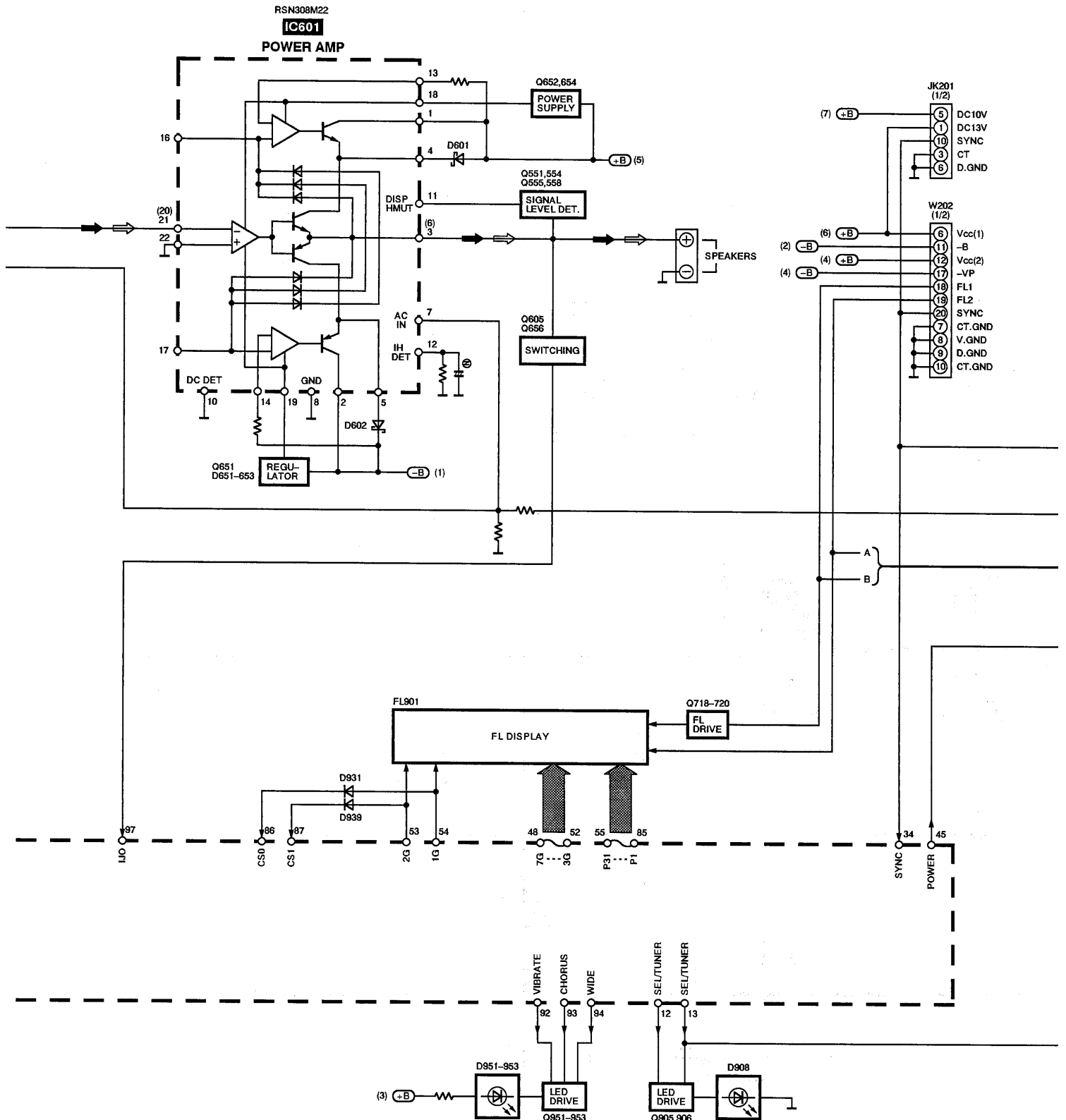
■ Wiring Connection Diagram





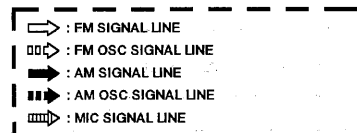




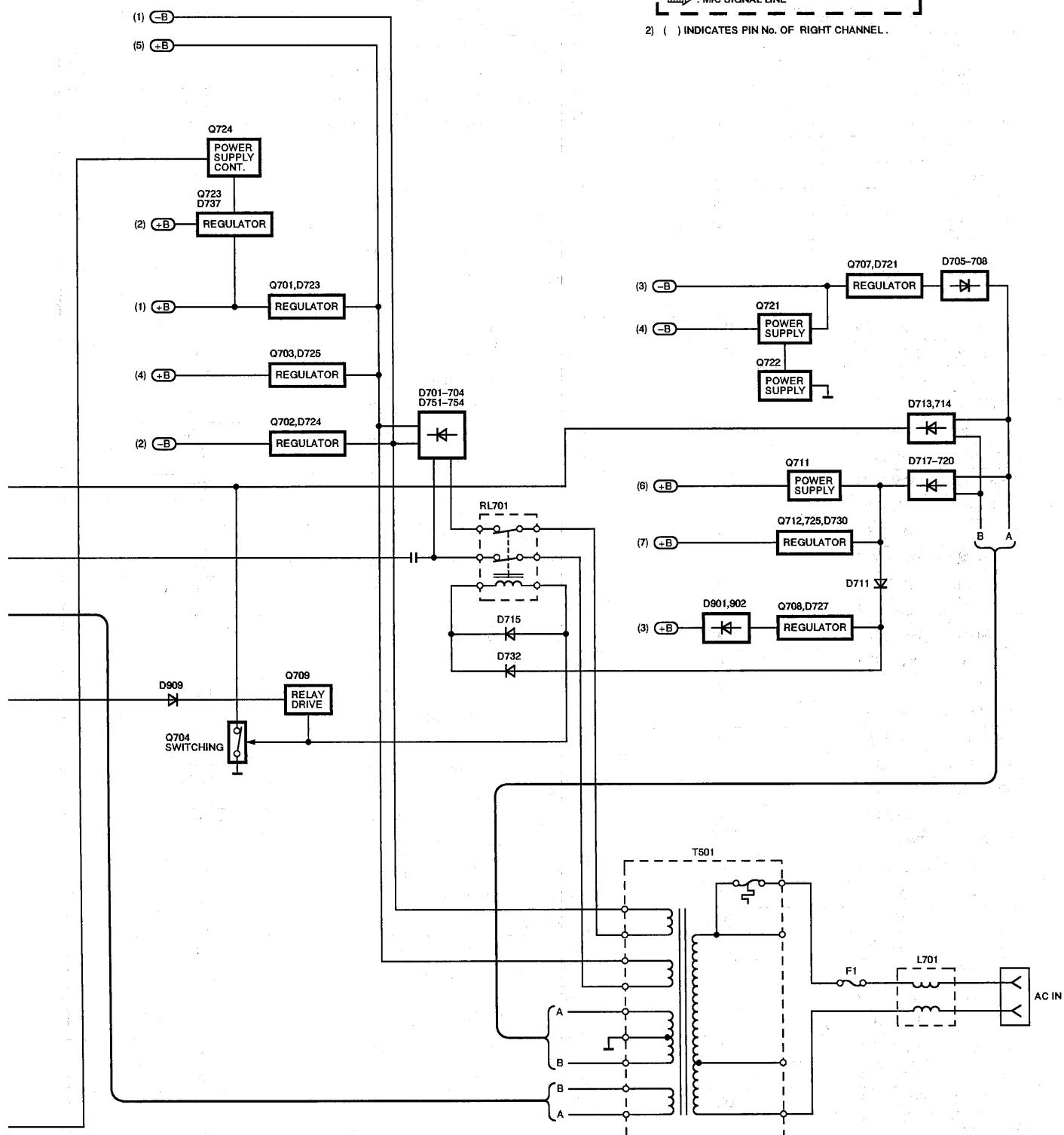


NOTES:

1)



2) () INDICATES PIN No. OF RIGHT CHANNEL.



■ Replacement Parts List (Electrical)

Notes: *Important safety notice:

Components identified by Δ mark have special characteristics important for safety.

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

When replacing any of components, be sure to use only manufacture's specified parts shown in the parts list.

*The parenthesized indications in the Remarks columns specify the areas. (Refer to the cover page for area.)

Parts without these indications can be used for all areas.

*[M] Indicates in Remarks columns parts that are supplied by MESA.

Ref. No.	Part No.	Part Name & Description	Remarks	Ref. No.	Part No.	Part Name & Description	Remarks
		INTEGRATED CIRCUIT(S)		Q723Δ	2SC3940AQSTA	TRANSISTOR	[M]
				Q724	UN4211	TRANSISTOR	[M]
				Q725Δ	2SC3311AIRTA	TRANSISTOR	[M]
IC101	LA1832MH-TEL	IC	[M]	Q901	UN4214TA	TRANSISTOR	[M]
IC102	LC7218M-TE-L	IC	[M]	Q902-904	2SC3311AIRTA	TRANSISTOR	[M]
IC301	M62433FP	IC	[M]	Q905, 906	UN411FTA	TRANSISTOR	[M]
IC401	TA2011S	IC	[M]	Q951-953	UN4214TA	TRANSISTOR	[M]
IC501	M5218AP	IC	[M]				
IC601Δ	RSN308M22	IC	[M]			DIODE (S)	
IC901	M38198MCO98F	IC	[M]				
		TRANSISTOR(S)		D101Δ	MA4051MTA	DIODE	[M]
				D102	MA165	DIODE	[M]
Q101, 102	2SC2787L	TRANSISTOR	[M]	D302, 303	MA165	DIODE	[M]
Q103, 104	2SC2785FE	TRANSISTOR	[M]	D331	MA4051-L	DIODE	[M]
Q106	UN411FTA	TRANSISTOR	[M]	D551, 552	MA165	DIODE	[M]
Q107, 108	2SC3311AR	TRANSISTOR	[M]	D555	MA4100MTA	DIODE	[M]
Q301	2SD2144S	TRANSISTOR	[M]	D558	MA165	DIODE	[M]
Q303	UN4110TA	TRANSISTOR	[M]	D601, 602	SB360L6508	DIODE	[M]
Q305, 306	2SC3311AIRTA	TRANSISTOR	[M]	D651Δ	MA4180L	DIODE	[M]
Q307, 308	2SD2144S	TRANSISTOR	[M]	D652, 653Δ	MA4140M	DIODE	[M]
Q309, 310	UN4115	TRANSISTOR	[M]	D657, 658	MA165	DIODE	[M]
Q401	2SC3311AIRTA	TRANSISTOR	[M]	D701-704Δ	1N5402BF	DIODE	[M]
Q503	2SD1450RTA	TRANSISTOR	[M]	D705-708Δ	RL1N4003N02	DIODE	[M]
Q551	2SA1309AIRTA	TRANSISTOR	[M]	D709	MA165	DIODE	[M]
Q554	2SA1309AIRTA	TRANSISTOR	[M]	D710	MA4051MTA	DIODE	[M]
Q555	2SD2144S	TRANSISTOR	[M]	D711	RL1N4003N02	DIODE	[M]
Q558	2SD2144S	TRANSISTOR	[M]	D713, 714Δ	MA185TA	DIODE	[M]
Q605	2SC3311AIRTA	TRANSISTOR	[M]	D715	MA165	DIODE	[M]
Q651Δ	2SB1238QS	TRANSISTOR	[M]	D717-720Δ	RL1N4003N02	DIODE	[M]
Q652	2SD1859QRTV2	TRANSISTOR	[M]	D721Δ	MA4300M	DIODE	[M]
Q654	2SD1859QRTV2	TRANSISTOR	[M]	D723Δ	MA4150M	DIODE	[M]
Q656	2SC3311AIRTA	TRANSISTOR	[M]	D724, 725Δ	MA4082LTA	DIODE	[M]
Q701Δ	2SD2374PQAU	TRANSISTOR	[M]	D727Δ	MA4062-H	DIODE	[M]
Q702Δ	2SB1548PQAU	TRANSISTOR	[M]	D730Δ	MA4100MTA	DIODE	[M]
Q703Δ	2SD2374PQAU	TRANSISTOR	[M]	D732-736	MA165	DIODE	[M]
Q704	UN4211	TRANSISTOR	[M]	D737Δ	MA4082LTA	DIODE	[M]
Q707Δ	2SB621A-R	TRANSISTOR	[M]	D738, 739	MA165	DIODE	[M]
Q708Δ	2SD2137PQTA	TRANSISTOR	[M]	D751, 752Δ	1N5402BF	DIODE	[M]
Q709	2SD2144S	TRANSISTOR	[M]	D753, 754Δ	RL1N4003N02	DIODE	[M]
Q711	2SB1417PQTA	TRANSISTOR	[M]	D901, 902	1SS291TA	DIODE	[M]
Q712Δ	2SB1548PQAU	TRANSISTOR	[M]	D903, 904	MA165	DIODE	[M]
Q718	UN4111	TRANSISTOR	[M]	D905	1SS291TA	DIODE	[M]
Q719, 720	2SD1450RTA	TRANSISTOR	[M]	D906, 907	MA165	DIODE	[M]
Q721	2SC3311AIRTA	TRANSISTOR	[M]	D908	SPR505MDTT	L. E. D.	[M]
Q722	2SA1309AIRTA	TRANSISTOR	[M]	D909	MA165	DIODE	[M]
				D931	MA165	DIODE	[M]

Ref. No.	Part No.	Part Name & Description	Remarks	Ref. No.	Part No.	Part Name & Description	Remarks
D936	MA165	DIODE	[M]			SWITCH(ES)	
D939	MA165	DIODE	[M]				
D951-953	LNJ301MPUJAD	L. E. D.	[M]	S901-920	EVQ21405R	SW	[M]
D971, 972	MA165	DIODE	[M]			CONNECTOR(S)	
D973	MA4039MTA	DIODE	[M]				
		VARIABLE RESISTOR(S)		CN201	RJU057W010	CONNECTOR(10P)	[M]
				CN203	RJU057W012	CONNECTOR(12P)	[M]
VR401	EVUE27FK3B53	V. R	[M]	CN701-709	RJS1A1101T1	CONNECTOR(1P)	[M]
VR901	EVQVBXFK124B	V. R	[M]	CN711-713	RJS1A1101T1	CONNECTOR(1P)	[M]
		COMPONENT COMBINATION(S)		CN715	RJU057W012	CONNECTOR(12P)	[M]
				CN721	RJS9T5ZA	CONNECTOR(9P)	[M]
Z101	RLA2Z002M-T	COMPONENT COMBINATION	[M]	CN904, 905	RJS2A2105	CONNECTOR(5P)	[M]
Z102	RLI2Z006M-T	COMPONENT COMBINATION	[M]	CN101B	RJU057W007	CONNECTOR(7P)	[M]
Z120	RAL0006	FM FRONT END	[M]	CN102B	RJU057W007	CONNECTOR(7P)	[M]
Z901	RCDGP1U28XD	REMOTE SENSOR	[M]	CP201	RJT057W010-1	CONNECTOR(10P)	[M]
		COIL(S)		CP203	RJT057W012-1	CONNECTOR(12P)	[M]
				CP715	RJT057W012-1	CONNECTOR(12P)	[M]
L101	ELESNR68MA	COIL	[M]	CP101B	RJT057W007-1	CONNECTOR(7P)	[M]
L103	ELEXTR47MA9	COIL	[M]	CP102B	RJT057W007-1	CONNECTOR(7P)	[M]
L105, 106	ELELN822KL	COIL	[M]			EARTH TERMINAL(S)	
L191	ELESNR68MA	COIL	[M]	E601	SNE1004-2	EARTH TERMINAL	[M]
L601, 602	SLQY07G-40	COIL	[M]	E603	SNE1004-2	EARTH TERMINAL	[M]
L701△	RLQZ271M-K	COIL	[M]			FUSE HOLDER	
L901	RLQA100JT-Y	COIL	[M]				
		POWER TRANSFORMER(S)		FC1, 2	EYF52BC	FUSE HOLDER	[M]
						RELAY(S)	
T501△	RTP2M5E013	POWER TRANSFORMER	[M]				
		FILTER(S)		RL701△	RSY0030-C	RELAY	[M]
						JACK(S)	
CF201, 202	RLFFETWND01M	CERAMIC FILTER	[M]				
		OSCILLATOR(S)		JK101	RJH5404M	ANTENNA	[M]
				JK201	RJT065K19	SYSTEM	[M]
X101	RSXZ456KM07M	OSCILLATOR	[M]	JK203	SJF3068-7N	VCR IN	[M]
X102	RLFDGT05DD	OSCILLATOR	[M]	JK204	SJF3069-5N	VDP/VCR OUT	[M]
X103	RSXC7M20S05T	OSCILLATOR	[M]	JK501	RJR0054M	SPEAKERS	[M]
X901	EF0EC6004T4	OSCILLATOR	[M]	JK701△	SJS9236	AC INLET	[M]
X902	RSXD32K7S02	OSCILLATOR	[M]	JK901	RJJ65MA01	MIC 1	[M]
		DISPLAY TUBE		JK902	RJJ65MA01	MIC 2	[M]
				JK903	RJJ37TN01-C	HEADPHONES	[M]
FL901	RSL0234-F	DISPLAY TUBE	[M]				
		FUSE(S)					
F1△	XBA2C12TBOS	FUSE	[M]				

■ Resistors and Capacitors

Notes : * Capacity values are in microfarads (uF) unless specified otherwise, P=Pico-farads (pF) F=Farads (F)
 * Resistance values are in ohms, unless specified otherwise, 1K=1,000 (OHM) , 1M=1,000k (OHM)

Ref. No.	Part No.	Values & Remarks	Ref. No.	Part No.	Values & Remarks	Ref. No.	Part No.	Values & Remarks
		RESISTORS						
R103	ERDS2FJ271	1/4W 270 [M]	R235, 236	ERDS2FJ102	1/4W 1K [M]	R406	ERDS2FJ474	1/4W 470K [M]
R104	ERDS2FJ822	1/4W 8.2K [M]	R239-242	ERDS2FJ102	1/4W 1K [M]	R407	ERDS2FJ472	1/4W 4.7K [M]
R105	ERDS2FJ471	1/4W 470 [M]	R243, 244	ERDS2FJ152	1/4W 1.5K [M]	R409	ERDS2FJ472	1/4W 4.7K [M]
R106	ERDS2FJ474	1/4W 470K [M]	R245-247	ERDS2FJ102	1/4W 1K [M]	R410	ERDS2FJ222	1/4W 2.2K [M]
R107	ERDS2FJ331	1/4W 330 [M]	R248	ERDS2FJ822	1/4W 8.2K [M]	R411	ERDS2FJ331	1/4W 330 [M]
R108	ERDS2FJ474	1/4W 470K [M]	R249, 250	ERDS2FJ101	1/4W 100 [M]	R412	ERDS2FJ105	1/4W 1M [M]
R109	ERDS2FJ331	1/4W 330 [M]	R251	ERDS2FJ222	1/4W 2.2K [M]	R415	ERDS2FJ102	1/4W 1K [M]
R110	ERDS2FJ102	1/4W 1K [M]	R253-256	ERDS2FJ104	1/4W 100K [M]	R416	ERDS2FJ331	1/4W 330 [M]
R112	ERDS2FJ104	1/4W 100K [M]	R257, 258	ERDS2FJ562	1/4W 5.6K [M]	R421	ERDS2FJ223	1/4W 22K [M]
R113	ERDS2FJ103	1/4W 10K [M]	R261, 262△	ERDS2FJ1R0	1/4W 1.0 [M]	R503, 504	ERDS2FJ333	1/4W 33K [M]
R114	ERDS2FJ562	1/4W 5.6K [M]	R301	ERDS2FJ223	1/4W 22K [M]	R505, 506	ERDS2FJ153	1/4W 15K [M]
R115	ERDS2FJ561	1/4W 560 [M]	R302	ERDS2FJ472	1/4W 4.7K [M]	R507, 508	ERDS2FJ332	1/4W 3.3K [M]
R116	ERDS2FJ102	1/4W 1K [M]	R303, 304	ERDS2FJ222	1/4W 2.2K [M]	R509-512	ERDS2FJ560	1/4W 56 [M]
R117	ERDS2FJ273	1/4W 27K [M]	R305, 306	ERDS2FJ152	1/4W 1.5K [M]	R513, 514	ERDS2FJ103	1/4W 10K [M]
R118	ERDS2FJ562	1/4W 5.6K [M]	R307, 308	ERDS2FJ104	1/4W 100K [M]	R521	ERDS2FJ561	1/4W 560 [M]
R119	ERDS2FJ682	1/4W 6.8K [M]	R309, 310	ERDS2FJ102	1/4W 1K [M]	R551	ERDS2FJ183	1/4W 18K [M]
R120	ERDS2FJ473	1/4W 47K [M]	R311, 312	ERDS2FJ104	1/4W 100K [M]	R552	ERDS2FJ473	1/4W 47K [M]
R121	ERDS2FJ332	1/4W 3.3K [M]	R313, 314	ERDS2FJ121	1/4W 120 [M]	R555	ERDS2FJ223	1/4W 22K [M]
R122	ERDS2FJ272	1/4W 2.7K [M]	R315	ERDS2FJ104	1/4W 100K [M]	R556	ERDS2FJ104	1/4W 100K [M]
R124	ERDS2FJ271	1/4W 270 [M]	R316	ERDS2FJ222	1/4W 2.2K [M]	R557	ERDS2FJ103	1/4W 10K [M]
R125, 126	ERDS2FJ152	1/4W 1.5K [M]	R317	ERDS2FJ105	1/4W 1M [M]	R558	ERDS2FJ102	1/4W 1K [M]
R127	ERDS2FJ103	1/4W 10K [M]	R318	ERDS2FJ153	1/4W 15K [M]	R559	ERDS2FJ472	1/4W 4.7K [M]
R128	ERDS2FJ820	1/4W 82 [M]	R319	ERDS2FJ473	1/4W 47K [M]	R561	ERDS2FJ104	1/4W 100K [M]
R129	ERDS2FJ473	1/4W 47K [M]	R321	ERDS2FJ104	1/4W 100K [M]	R562	ERDS2FJ102	1/4W 1K [M]
R130	ERDS2FJ103	1/4W 10K [M]	R322	ERDS2FJ222	1/4W 2.2K [M]	R563, 564	ERDS2FJ273	1/4W 27K [M]
R132	ERDS2FJ103	1/4W 10K [M]	R324	ERDS2FJ223	1/4W 22K [M]	R570	ERDS2FJ335T	1/4W 3.3M [M]
R133-137	ERDS2FJ102	1/4W 1K [M]	R326	ERDS2FJ332	1/4W 3.3K [M]	R591	ERDS2FJ473	1/4W 47K [M]
R138	ERDS2FJ103	1/4W 10K [M]	R327	ERDS2FJ392	1/4W 3.9K [M]	R604, 605	ERDS2FJ103	1/4W 10K [M]
R139, 140	ERDS2FJ272	1/4W 2.7K [M]	R328	ERDS2FJ332	1/4W 3.3K [M]	R619, 620	ERDS2FJ563	1/4W 56K [M]
R141, 142	ERDS2FJ102	1/4W 1K [M]	R329	ERDS2FJ103	1/4W 10K [M]	R623	ERDS2FJ684	1/4W 680K [M]
R143, 144	ERDS2FJ222	1/4W 2.2K [M]	R330	ERDS2FJ332	1/4W 3.3K [M]	R624	ERDS2FJ223	1/4W 22K [M]
R145, 146	ERDS2FJ102	1/4W 1K [M]	R331	ERDS2FJ102	1/4W 1K [M]	R626	ERDS2FJ154	1/4W 150K [M]
R147, 148	ERDS2FJ474	1/4W 470K [M]	R332-334	ERDS2FJ222	1/4W 2.2K [M]	R627	ERDS2FJ124	1/4W 120K [M]
R149	ERDS2FJ680	1/4W 68 [M]	R335, 336	ERDS2FJ683	1/4W 68K [M]	R628	ERDS2FJ184	1/4W 180K [M]
R171, 172	ERDS2FJ102	1/4W 1K [M]	R338	ERDS2FJ392	1/4W 3.9K [M]	R629, 630	ERDS2FJ100	1/4W 10 [M]
R173	ERDS2FJ471	1/4W 470 [M]	R341, 342	ERDS2FJ222	1/4W 2.2K [M]	R631	ERDS2FJ224	1/4W 220K [M]
R175	ERDS2FJ102	1/4W 1K [M]	R343	ERDS2FJ334	1/4W 330K [M]	R632, 633	ERDS2FJ563	1/4W 56K [M]
R176	ERDS2FJ391	1/4W 390 [M]	R353	ERDS2FJ104	1/4W 100K [M]	R637	ERDS2FJ154	1/4W 150K [M]
R201, 202	ERDS2FJ752	1/4W 7.5K [M]	R354	ERDS2FJ223	1/4W 22K [M]	R638	ERDS2FJ684	1/4W 680K [M]
R217, 218	ERDS2FJ562	1/4W 5.6K [M]	R355	ERDS2FJ102	1/4W 1K [M]	R639-642△	ERDS1FJ100	1/2W 10 [M]
R221, 222	ERDS2FJ752	1/4W 7.5K [M]	R360	ERDS2FJ223	1/4W 22K [M]	R647, 648	ERQ16NKR15E	1/6W 0.15 [M]
R223, 224	ERDS2FJ562	1/4W 5.6K [M]	R364	ERDS2FJ103	1/4W 10K [M]	R651	ERDS2FJ222	1/4W 2.2K [M]
R225, 226	ERDS2FJ104	1/4W 100K [M]	R365	ERDS2FJ223	1/4W 22K [M]	R654	ERDS2FJ222	1/4W 2.2K [M]
R227, 228	ERDS2FJ222	1/4W 2.2K [M]	R380	ERDS2FJ153	1/4W 15K [M]	R655, 656	ERDS2FJ183	1/4W 18K [M]
R229, 230	ERDS2FJ822	1/4W 8.2K [M]	R383, 384	ERDS2FJ153	1/4W 15K [M]	R667	ERDS2FJ331	1/4W 330 [M]
R231-234	ERDS2FJ682	1/4W 6.8K [M]	R401, 402	ERDS2FJ681	1/4W 680 [M]	R701, 702	ERDS2FJ273	1/4W 27K [M]
			R403	ERDS2FJ223	1/4W 22K [M]	R703, 704	ERDS2FJ101	1/4W 100 [M]
			R404	ERDS2FJ471	1/4W 470 [M]	R707△	ERDS2FJ477	1/4W 4.7 [M]
			R405	ERDS2FJ472	1/4W 4.7K [M]	R708	ERDS2FJ472	1/4W 4.7K [M]

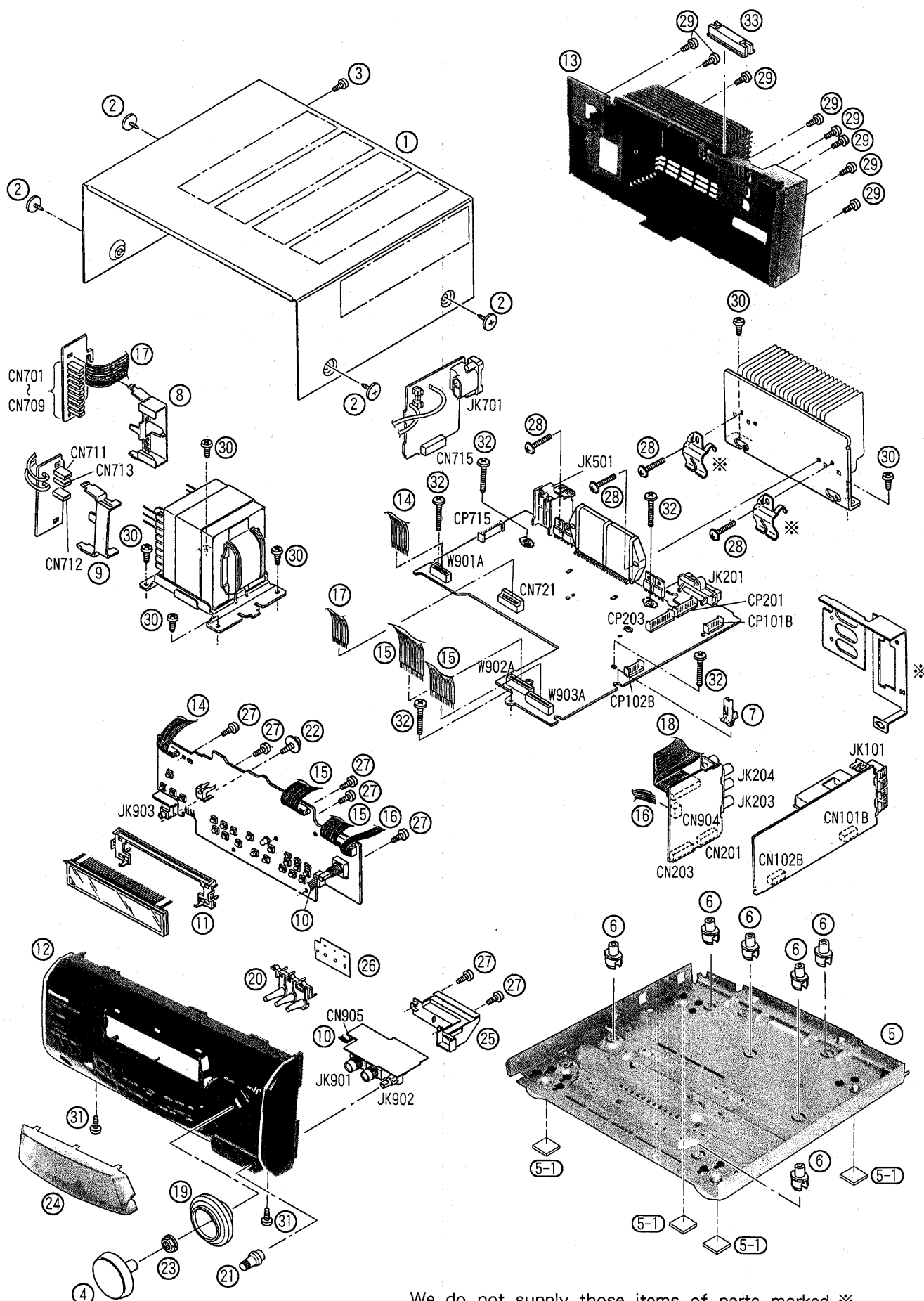
Ref. No.	Part No.	Values & Remarks	Ref. No.	Part No.	Values & Remarks	Ref. No.	Part No.	Values & Remarks
R712	ERDS2FJ152	1/4W 1.5K [M]	R937	ERDS2FJ562	1/4W 5.6K [M]	C115	ECEA1EKA4R7B	25V 4.7U [M]
R713, 714	ERDS2FJ332	1/4W 3.3K [M]	R938	ERDS2FJ102	1/4W 1K [M]	C116	ECBT1C822KS5	16V 8200P [M]
R715	ERDS2FJ183	1/4W 18K [M]	R939	ERDS2FJ152	1/4W 1.5K [M]	C117	ECQB1H102JF3	50V 1000P [M]
R717	ERDS2FJ473	1/4W 47K [M]	R940, 941	ERDS2FJ102	1/4W 1K [M]	C118, 119	ECFR1C103KR	16V 0.01U [M]
R721△	ERD2FCJ4R7	1/4W 4.7 [M]	R942	ERDS2FJ101	1/4W 100 [M]	C120, 121	ECEA1HKA010B	50V 1U [M]
R722△	ERQ16NKW2R2E	1/6W 2.2 [M]	R943	ERDS2FJ102	1/4W 1K [M]	C122	ECEA1HKA2R2B	50V 2.2U [M]
R723	ERDS2FJ562	1/4W 5.6K [M]	R946	ERDS2FJ102	1/4W 1K [M]	C123	ECEA1HKA010B	50V 1U [M]
R724	ERDS2FJ152	1/4W 1.5K [M]	R947, 948	ERDS2FJ104	1/4W 100K [M]	C124	ECBT1H102KB5	50V 1000P [M]
R725, 726	ERDS2FJ100	1/4W 10 [M]	R949	ERDS2FJ472	1/4W 4.7K [M]	C125	ECBT1H150JC5	50V 15P [M]
R727	ERDS2FJ152	1/4W 1.5K [M]	R950	ERDS2FJ101	1/4W 100 [M]	C126	ECBT1H473ZF5	50V 0.047U [M]
R729	ERDS2FJ221	1/4W 220 [M]	R951	ERDS2FJ334	1/4W 330K [M]	C127	ECEA1CKA220B	16V 22U [M]
R735△	ERDS2FJ4R7	1/4W 4.7 [M]	R952	ERDS2TJ106T	1/4W 10M [M]	C128	ECBT1H102KB5	50V 1000P [M]
R736	ERDS2FJ102	1/4W 1K [M]	R953	ERDS2FJ101	1/4W 100 [M]	C129, 130	ECEA1JKA0101B	6.3V 100U [M]
R737	ERDS2FJ221	1/4W 220 [M]	R954	ERDS2FJ104	1/4W 100K [M]	C132	ECBT1H102KB5	50V 1000P [M]
R738	ERDS2FJ392	1/4W 3.9K [M]	R955	ERDS2FJ824	1/4W 820K [M]	C133, 134	ECBT1H270JU5	50V 27P [M]
R739	ERDS2FJ473	1/4W 47K [M]	R956-958	ERDS2FJ102	1/4W 1K [M]	C135, 136	ECBT1C103KS5	16V 0.01U [M]
R748	ERDS2FJ102	1/4W 1K [M]	R959	ERDS2FJ471	1/4W 470 [M]	C137, 138	ECBT1H561KB5	50V 560P [M]
R749	ERDS2FJ271	1/4W 270 [M]	R960	ERDS2FJ152	1/4W 1.5K [M]	C139, 140	ECBT1C562KR5	16V 5600P [M]
R755△	ERDS1FJ8R2	1/2W 8.2 [M]	R961, 962	ERDS2FJ223	1/4W 22K [M]	C141-144	ECEA1HKA010B	50V 1U [M]
R756△	ERDS1FJ4R7	1/2W 4.7 [M]	R963, 964	ERDS2FJ103	1/4W 10K [M]	C145	ECBT1H220JC5	50V 22P [M]
R757-759	ERDS2FJ103	1/4W 10K [M]	R965	ERDS2FJ472	1/4W 4.7K [M]	C148	ECBT1C103NS5	16V 0.01U [M]
R761, 762	ERDS2FJ822	1/4W 8.2K [M]	R966	ERDS2FJ103	1/4W 10K [M]	C149	ECBT1H104ZF5	50V 0.1U [M]
R763	ERDS2FJ472	1/4W 4.7K [M]	R967	ERDS2FJ473	1/4W 47K [M]	C171, 172	ECBT1H102KB5	50V 1000P [M]
R764	ERDS2FJ331	1/4W 330 [M]	R968	ERDS2FJ103	1/4W 10K [M]	C173	ECEA1CKA220B	16V 22U [M]
R765△	ERDS1FJ561	1/2W 560 [M]	R969, 970	ERDS2FJ472	1/4W 4.7K [M]	C174	RCE1CKA100BG	16V 10U [M]
R766	ERDS2FJ102	1/4W 1K [M]	R971	ERDS2FJ473	1/4W 47K [M]	C196	ECBT1H102KB5	50V 1000P [M]
R767△	ERD2FCJ4R7	1/4W 4.7 [M]	R972	ERDS2FJ223	1/4W 22K [M]	C201, 202	ECBT1H180J5	50V 18P [M]
R768	ERDS2FJ101	1/4W 100 [M]	R974	ERDS2FJ101	1/4W 100 [M]	C219-226	ECBT1H101KB5	50V 100P [M]
R791, 792△	RSFMB30KT-L	PROTECTOR [M]	R975	ERDS2FJ181	1/4W 180 [M]	C229-235	ECBT1H101KB5	50V 100P [M]
R901	ERDS2FJ821	1/4W 820 [M]	R977-981	ERDS2FJ104	1/4W 100K [M]	C236	ECBT1H104ZF5	50V 0.1U [M]
R902	ERDS2FJ102	1/4W 1K [M]	R984, 985	ERDS2FJ473	1/4W 47K [M]	C301	ECBT1H102KB5	50V 1000P [M]
R903	ERDS2FJ122	1/4W 1.2K [M]	R986-988	ERDS2FJ102	1/4W 1K [M]	C302, 303	ECBT1H561KB5	50V 560P [M]
R904	ERDS2FJ152	1/4W 1.5K [M]	R989, 990	ERDS2FJ393	1/4W 39K [M]	C309	ECEA1HKAR22B	50V 0.22U [M]
R905	ERDS2FJ182	1/4W 1.8K [M]	R991	ERDS2FJ473	1/4W 47K [M]	C310	ECFR1C393KR	16V 0.039U [M]
R906	ERDS2FJ222	1/4W 2.2K [M]	R992	ERDS2FJ181	1/4W 180 [M]	C312	ECFR1C823MR	16V 0.082U [M]
R907	ERDS2FJ272	1/4W 2.7K [M]	R993, 994	ERDS2FJ104	1/4W 100K [M]	C313	ECFR1C103KR	16V 0.01U [M]
R908	ERDS2FJ472	1/4W 4.7K [M]	R995	ERDS2FJ181	1/4W 180 [M]	C315	ECFR1C223KR	16V 0.022U [M]
R909	ERDS2FJ682	1/4W 6.8K [M]	R996, 997	ERDS2FJ151	1/4W 150 [M]	C316	ECBT1C332KR5	16V 3300P [M]
R910	ERDS2FJ123	1/4W 12K [M]				C318	ECBT1C682KR5	16V 6800P [M]
R911	ERDS2FJ223	1/4W 22K [M]			CAPACITORS	C319	ECBT1H102KB5	50V 1000P [M]
R912	ERDS2FJ821	1/4W 820 [M]				C320	ECBA1H681KB5	50V 680P [M]
R913	ERDS2FJ102	1/4W 1K [M]	C101	ECBT1C103NS5	16V 0.01U [M]	C321	ECBT1C332KR5	16V 3300P [M]
R914	ERDS2FJ122	1/4W 1.2K [M]	C103	ECBT1C103NS5	16V 0.01U [M]	C322	ECQV1H333JM3	50V 0.033U [M]
R915	ERDS2FJ152	1/4W 1.5K [M]	C104, 105	ECBT1H102KB5	50V 1000P [M]	C324	ECFR1C683KR	16V 0.068U [M]
R916	ERDS2FJ182	1/4W 1.8K [M]	C106	ECBT1C103NS5	16V 0.01U [M]	C325	ECQV1H154JM3	50V 0.15U [M]
R917	ERDS2FJ222	1/4W 2.2K [M]	C107	ECBT1H473ZF5	50V 0.047U [M]	C326	ECBT1H102KB5	50V 1000P [M]
R918	ERDS2FJ332	1/4W 3.3K [M]	C108	ECBT1H882KC5	50V 8.2P [M]	C327	ECBT1H471KB5	50V 470P [M]
R919-923	ERDS2FJ103	1/4W 10K [M]	C109, 110	ECBT1C103NS5	16V 0.01U [M]	C328	RCE1CKA470BG	16V 47U [M]
R924-927	ERDS2FJ102	1/4W 1K [M]	C111	ECEA1EKA4R7B	25V 4.7U [M]	C329	ECEA1HKA2R2B	50V 2.2U [M]
R929	ERDS2FJ102	1/4W 1K [M]	C112	ECBT1C103NS5	16V 0.01U [M]	C330	ECBA1H681KB5	50V 680P [M]
R930	ERDS2FJ101	1/4W 100 [M]	C113	ECBT1H102KB5	50V 1000P [M]	C331	ECBT1H104ZF5	50V 0.1U [M]
R931-936	ERDS2FJ102	1/4W 1K [M]	C114	RCE1HKA3R3BG	50V 3.3U [M]	C332-334	ECBT1H470J5	50V 47P [M]

Ref. No.	Part No.	Values & Remarks	Ref. No.	Part No.	Values & Remarks	Ref. No.	Part No.	Values & Remarks
C336	ECBT1H104ZF5	50V 0.1U [M]	C557, 558	ECFR1C393KR	16V 0.039U [M]	C918	ECEA0JKA221B	6.3V 220U [M]
C337	RCE1CKA470BG	16V 47U [M]	C604, 605	RCE1CKA100BG	16V 10U [M]	C919, 920	ECEA1HKS2R2B	50V 2.2U [M]
C338	ECBT1H471KB5	50V 470P [M]	C607, 608	ECBT1C122KR5	16V 1200P [M]	C921	ECBT1H102KB5	50V 1000P [M]
C339	ECBT1H102KB5	50V 1000P [M]	C613, 614	ECBT1H150JC5	50V 15P [M]	C922	ECEA1VKA330B	35V 33U [M]
C340	ECQV1H154JM3	50V 0.15U [M]	C615	ECEA2AU010	100V 1U [M]	C1101, 1102	ECBT1H473ZF5	50V 0.047U [M]
C341	ECFR1C683KR	16V 0.068U [M]	C616	ECA1JM330B	63V 33U [M]	C1103-1106	ECBT1H102KB5	50V 1000P [M]
C342	ECQV1H333JM3	50V 0.033U [M]	C617	ECEA1HN2R2	50V 2.2U [M]			
C343	ECEA1HKA2R2B	50V 2.2U [M]	C618	ECA1HM101B	50V 100U [M]			
C344	ECBT1C332KR5	16V 3300P [M]	C620, 621	ECQV1H473JM3	50V 0.047U [M]			
C346	ECBT1H102KB5	50V 1000P [M]	C655	ECEA2AU3R3B	100V 3.3U [M]			
C347	ECBT1C682KR5	16V 6800P [M]	C656	ECBT1E103ZF	25V 0.01U [M]			
C348	RCE1CKA100BG	16V 10U [M]	C657	ECBT1H104ZF5	50V 0.1U [M]			
C349	ECBT1C332KR5	16V 3300P [M]	C701△	ECA1VM472E	35V 4700U [M]			
C350	ECFR1C223KR	16V 0.022U [M]	C702△	ECA1VM562E	35V 5600U [M]			
C352	ECFR1C103KR	16V 0.01U [M]	C703, 704△	ECA1VM332E	35V 3300U [M]			
C353	ECFR1C823MR	16V 0.082U [M]	C705	RCE1CKA100BG	16V 10U [M]			
C354	ECEA1CN100SB	16V 10U [M]	C706	RCE1VKA100BG	35V 10U [M]			
C355	ECFR1C393KR	16V 0.039U [M]	C707	ECBT1E103ZF	25V 0.01U [M]			
C356	ECEA1HKAR22B	50V 0.22U [M]	C708	RCE1CKA100BG	16V 10U [M]			
C357, 358	ECQV1H683JM3	50V 0.068U [M]	C709	ECBT1H104ZF5	50V 0.1U [M]			
C359	RCE1HKA3R3BG	50V 3.3U [M]	C710	ECBT1E103ZF	25V 0.01U [M]			
C360	RCE1HKA4R7BG	50V 4.7U [M]	C711	RCE1EM471BV	25V 470U [M]			
C364	ECBT1C152KR5	16V 1500P [M]	C714	ECBT1H102KB5	50V 1000P [M]			
C365	ECQV1H154JM3	50V 0.15U [M]	C715△	ECA1EM472E	25V 4700U [M]			
C372	ECBT1H104ZF5	50V 0.1U [M]	C717	ECEA1CKA330B	16V 33U [M]			
C385, 386	ECEA1HKAR22B	50V 0.22U [M]	C718	RCE1AKA101BG	10V 100U [M]			
C395, 396	ECBT1H473ZF5	50V 0.047U [M]	C719, 720	ECBT1E103ZF	25V 0.01U [M]			
C401	ECBT1H102KB5	50V 1000P [M]	C721	RCE1AKA101BG	10V 100U [M]			
C403	ECBT1H102KB5	50V 1000P [M]	C723	ECBT1E103ZF	25V 0.01U [M]			
C404	RCE1HKA3R3BG	50V 3.3U [M]	C725	RCE1CKA100BG	16V 10U [M]			
C405	ECBT1H471KB5	50V 470P [M]	C726	ECBT1E103ZF	25V 0.01U [M]			
C406	ECEA1EU4R7	25V 4.7U [M]	C731	ECBT1H102KB5	50V 1000P [M]			
C407	ECBT1E103ZF	25V 0.01U [M]	C732	ECBT1E223ZF	25V 0.022U [M]			
C408	ECBT1C103MS5	16V 0.01U [M]	C734	RCE1CKA100BG	16V 10U [M]			
C409	ECEA1HKA010B	50V 1U [M]	C736△	ECA1EM101B	25V 100U [M]			
C410	ECEA1CKS100L	16V 10U [M]	C737, 738△	ECA1HM101B	50V 100U [M]			
C411	ECBT1H101KB5	50V 100P [M]	C739△	ECA1JM101B	63V 100U [M]			
C412	ECBT1H102KB5	50V 1000P [M]	C740	RCE1CKA100BG	16V 10U [M]			
C413	ECEA1HKA010B	50V 1U [M]	C741	ECBT1H104ZF5	50V 0.1U [M]			
C414	ECEA1AKA221B	10V 220U [M]	C901	ECBT1H104ZF5	50V 0.1U [M]			
C415	ECEA1HKA010B	50V 1U [M]	C902	ECA0JM102B	6.3V 1000U [M]			
C416	RCE1CKA100BG	16V 10U [M]	C903	ECBT1E103ZF	25V 0.01U [M]			
C417	ECBT1C472KR5	16V 4700P [M]	C905-908	ECBT1H471KB5	50V 470P [M]			
C441	ECBT1E103ZF	25V 0.01U [M]	C909	ECBT1H102KB5	50V 1000P [M]			
C501-506	ECBT1H101KB5	50V 100P [M]	C910	ECBT1H150JC5	50V 15P [M]			
C507, 508	RCE1CKA100BG	16V 10U [M]	C911	ECBT1H180JC5	50V 18P [M]			
C509-512	ECBT1E103ZF	25V 0.01U [M]	C912	ECBT1H104ZF5	50V 0.1U [M]			
C513, 514	ECBT1C103KS5	16V 0.01U [M]	C913	RCE1CKA100BG	16V 10U [M]			
C551	ECEA1HKA2R2B	50V 2.2U [M]	C914	ECEA1HKA2R2B	50V 2.2U [M]			
C552	ECBT1E103ZF	25V 0.01U [M]	C915	ECBT1E103ZF	25V 0.01U [M]			
C553	ECEA1HKAR68B	50V 0.68U [M]	C916	ECA0JKF101B	6.3V 100U [M]			
C554	ECA1AM221B	10V 220U [M]	C917	ECBT1E103ZF	25V 0.01U [M]			

■ Replacement Parts List (Cabinet, Packing and Accessories)

Ref. No.	Part No.	Part Name & Description	Remarks	Ref. No.	Part No.	Part Name & Description	Remarks
		CABINET PARTS				ACCESSORIES	
1	RKM0202E-K	CABINET	[M]	A1	RAK-CH749WH	REMOTE CONTROL TRANSMITTER	[M]
2	RHD30007-K1	SCREW	[M]	A1-1	RKK0020-K	BATTERY COVER	[M]
3	XTBS3+10JFZ1	SCREW	[M]	A2	REE0499	SPEAKER CORD	[M]
4	RGW0183-K	KNOB, VOLUME	[M]	A3△	RJA0019-X	AC POWER CORD	[M]
5	RFKJAEH50E-K	CHASSIS ASS'Y	[M]	A4	RJL1P019B15	PIN CORD (VIDEO)	[M]
5-1	SHG1645	RUBBER	[M]	A5	RQT3804-3G	INSTRUCTION MANUAL	[M]
6	RKQ0089-2	P. C. B. SPACER	[M]	A6	RSA0006	FM INDOOR ANTENNA	[M]
7	RMN0203	P. C. B. HOLDER 1	[M]	A7	RSA0012	AM LOOP ANTENNA	[M]
8	RMN0429	P. C. B. HOLDER 2	[M]	A7-1	RMN0244	ANTENNA HOLDER	[M]
9	RMN0437	P. C. B. HOLDER 3	[M]	A7-2	XTN3+12AFZ	SCREW	[M]
10	REZ0971	FLAT CABLE (W905/5P)	[M]	A8△	SJP5213-1	POWER PLUG ADAPTOR	[M]
11	RMN0426	FL HOLDER	[M]			JIG/TOOL(S)	
12	RFKGAEH40XGK	FRONT PANEL ASS'Y	[M]	SA1	RFX0002	GREASE	[M]
13	RFKHAEH40XGK	REAR PANEL ASS'Y	[M]				
14	RWJ7610260QQ	FLAT CABLE (W901/10P)	[M]				
15	RWJ7615210QQ	FLAT CABLE (W902·W903/15P)	[M]				
16	RWJ6805330QR	FLAT CABLE (W904/5P)	[M]				
17	RWJ1809150KQ	FLAT CABLE (W721A·W721B/9P)	[M]				
18	REX0852	WIRE ASS'Y	[M]				
19	RGK0894-N	ORNAMENT	[M]				
20	RGU1518-C	LENS	[M]				
21	RGW0235-K	KNOB, MIC VOLUME	[M]				
22	RHD26016	SCREW	[M]				
23	RHN90001	NUT	[M]				
24	RKW0506C-Q	FL PANEL	[M]				
25	RMN0425	JACK HOLDER	[M]				
26	RMZ0421	SHEET	[M]				
27	XTBS26+8J	SCREW	[M]				
28	XTW3+15T	SCREW	[M]				
29	XTB3+10JFZ	SCREW	[M]				
30	XTB3+8JFZ	SCREW	[M]				
31	XTBS3+8JFZ1	SCREW	[M]				
32	XTB3+20JFZ	SCREW	[M]				
33	RMN0427	CABLE HOLDER	[M]				
		PACKING MATERIALS					
P1	RPQ0769	SPACER	[M]				
P2	SPP740	SHEET	[M]				
P3	RPG3517	PACKING CASE (SA-EH40X)	[M]				
P3	RPG3515	PACKING CASE (RS-EH60X)	[M]				
P3	RPG3514	PACKING CASE (SH-EH40X)	[M]				
P3	RPG3516	PACKING CASE (SL-EH60X)	[M]				
P4	RPG3450	PACKING CASE (SYSTEM)	[M]				
P5	RPN1036-1	PAD (SA-EH40X)	[M]				
P5	RPN1037	PAD (RS-EH60X)	[M]				
P5	RPN1038	PAD (SH-EH40X)	[M]				
P5	RPN1039	PAD (SL-EH60X)	[M]				
P6	RPF0139	PROTECTION COVER	[M]				

■ Cabinet Parts Location



We do not supply those items of parts marked ※.

■ Packaging

