

Service
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Service Manual

Contents

Page

Specification	2
Controls & Connections	3
Alignment & Adjustments	8
Mainboard Test Point	10
Wiring Diagram	11
Schematic Diagram - Tuner	12
Schematic Diagram - Function Selector	13
PC Board - Component Side - Main PCB	14
PC Board - Solder Side - Main PCB	15
Schematic Diagram - Font	16
Schematic Diagram - Surround	17
PC Board - Component Side - Front PCB	18
PC Board - Solder Side - Front PCB	19
Schematic Diagram - Power	20
PC Board - Component Side / Solder Side	21
Mechanical Exploded View	22
Mechanical Parts List	23
Replacement Parts List	24



PHILIPS

Specifications

STANDARD TEST CONDITIONS

SUPPLY VOLTAGE: AC 230V, 50 Hz
REFERENCE OUTPUT: 500 mW (Into 8 ohm Load)
AM ANTENNA: IRE Loop
AM STANDARD SIGNAL: 400 Hz, 30% Modulation at 1MHz
FM ANTENNA: 75 ohm Unbalanced
FM STANDARD SIGNAL: 1 kHz, 45 kHz Deviation at 98 MHz

AM BAND

NOMINAL

Frequency Range	522-1611 kHz
IF Frequency	450 kHz
Usable Sensitivity S/N @20dB	800 uV/m
IF Rejection at 603 kHz	50 dB
Image Rejection at 1404 kHz	40 dB
AGC Figure of Merit (Ref: 100 mV/m)	45 dB

FM BAND

Frequency Range	87.5-108 MHz
IF Frequency	10.7 MHz
Mono 26 dB/St. 46 dB Quieting Sensitivity	4/100 uV
IF Rejection at 90 MHz	70 dB
Image Rejection at 106 MHz	45 dB
AM Suppression	40 dB

AMPLIFIER SECTION

Speaker Impedance: 8 ohms front Channel.
Reference Level: 500 m Watt each Channel.
0.5% THD Power at 20~20 kHz 55 Watts
Total Harmonic Distortion 0.2% @ Reference level
S/N Ratio 95 dB
Channel Separation (at 1 kHz) 50 dB
Graphic Equalizer Effect:
Base 1 (at 100 Hz)
 Boost +10 dB±3 dB
 Cut -10 dB±3 dB
Treble 1 (at 10 kHz)
 Boost +10 dB±3 dB
 Cut -10 dB±3 dB

Controls & Connections

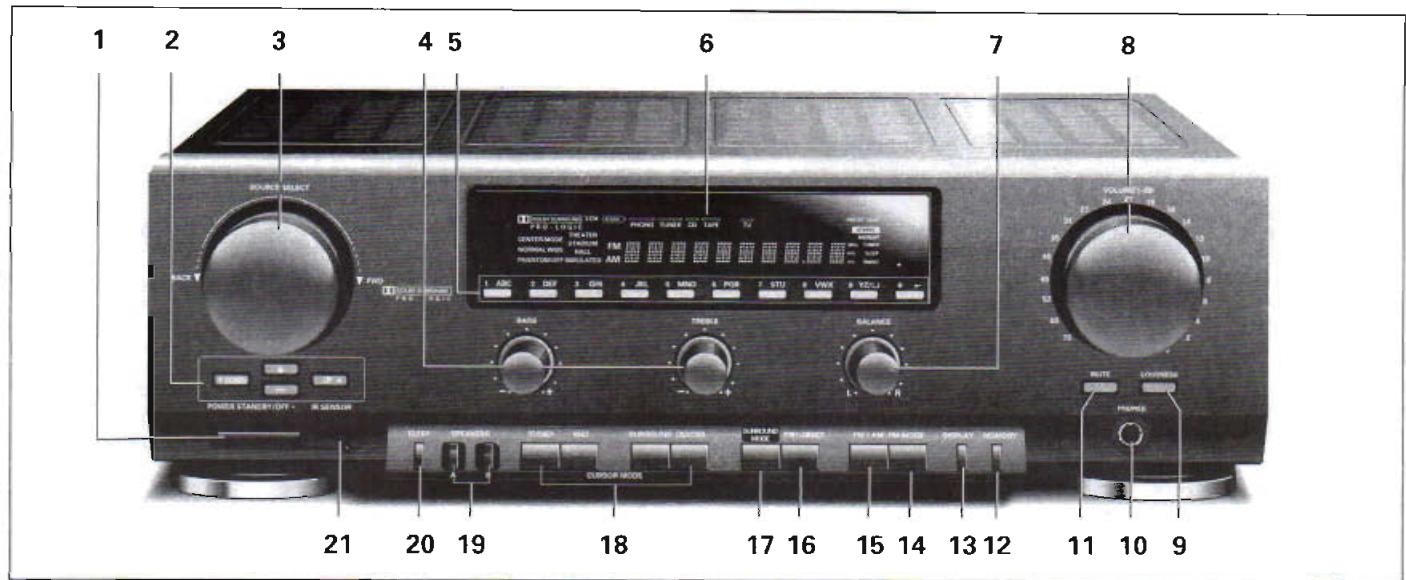


Figure 1

CONTROLS

- ① **POWER STANDBY/OFF** – for switching on to standby mode and for switching off.
- ② **CURSOR KEYS**
 - ▽ DOWN, △ UP, -, + – to be used in combination with the CURSOR MODE keys 20.
 - to adjust the surround modes.
 - frequency up/down.
 - preset selection.
 - selecting a name when using the SND function.
- ③ **SOURCE SELECT** – for selecting the desired listening source
- ④ **BASS** – for adjusting the bass tones.
TREBLE – for adjusting the high tones.
- ⑤ **DIGIT KEYS**
 - for selecting 30 preset stations.
 - for entering data when programming station name and when using the direct tuning function.
- ⑥ **DISPLAY**
- ⑦ **BALANCE** – for adjusting the balance of the volume between the left and right channels.
- ⑧ **VOLUME** – for adjusting the volume.
- ⑨ **LOUDNESS** – for increasing the treble and bass response at low volume setting to match human perception.
- ⑩ **PHONES** – socket for stereo headphones.
 - You may connect a pair of stereo headphones with 6.3 mm plug to this socket.
 - Inserting the plug will **not** disconnect the speakers.
- ⑪ **MUTE** – for decreasing the volume by 20 dB (= factor 10).
- ⑫ **MEMORY** – for opening and closing the memory when programming preset stations.
- ⑬ **DISPLAY** – for selecting the frequency or the station name to be shown on the display.
- ⑭ **FM MODE** – for selecting mono or stereo reception.
- ⑮ **FM/AM** – selecting reception of FM or AM stations
- ⑯ **FREQ. DIRECT** – for direct tuning to the station frequency
- ⑰ **SURROUND MODE** – for selecting the surround modes:
□ PRO LOGIC, ...3 CH, HALL, STADIUM, THEATER, SIMULATED, OFF.
 - Manufactured under license from Dolby Laboratories Licensing Corporation. 'Dolby' and the double D symbol □ are trademarks of Dolby Laboratories Licensing Corporation.
- ⑱ **CURSOR MODE**
 - For selecting different cursor modes which can then be manipulated with the CURSOR keys 2 (▽ DOWN, △ UP, -, +).
- **CENTER**
 - Use the ▽ DOWN, △ UP keys to select the center channel mode: **NORMAL, PHANTOM, WIDE** or **CENTER OFF**.
 - Use the -, + keys to adjust the center level (related to the front level).
- **SURROUND**
 - Use the ▽ DOWN, △ UP keys to adjust the delay time of the rear channel.
 - Use the -, + keys to adjust the rear level (related to the front level).
- **SND** – for entering a station name for a tuner preset.
 - Use the ▽ DOWN, △ UP keys to move the cursor in the display to the next or previous position.
 - Use the -, + keys to select the desired character (A-Z, |, +, -, *).
- **TUNER**
 - Use the ▽ DOWN, △ UP keys to adjust the station frequency received down/up.
 - Use the -, + keys to select the next or previous tuner preset.
- ⑲ **SPEAKERS**
 - A** – for switching on and off a pair of speakers connected to the SPEAKER A terminals.
 - B** – for switching on and off a pair of speakers connected to the SPEAKER B terminals.
- ⑳ **SLEEP** – to set a time period after which the system will automatically be switched to standby.
- ㉑ **I(nfra) R(ed) SENSOR** – infrared remote control eye. For receiving signals from the remote control.

The display shows:



- the selected source: **PHONO, TUNER, CD, TAPE, TV**.
- **DOLBY PRO LOGIC, 3 CH, THEATER, STADIUM, HALL, SIMULATED, OFF** – indicate the selected surround mode.
- **CENTER MODE, NORMAL, WIDE, PHANTOM** – light up during the DOLBY PRO LOGIC, DOLBY 3 CH and THEATER mode.
- **FM, AM** – indicate the selected waveband.
- The frequency of the tuned station is indicated in **MHz** (for FM) or in **kHz** (for AM).
- **PRESET SCAN** – appears when the scanning function on the remote control is used.
- **STEREO** – lights up when an FM stereo transmission is received
- **MEMORY** – flashes when the memory has been opened to store a preferred station.
- **TUNED** – lights up when a station is found and tuned in correctly.
- **SLEEP** – lights up when the sleep timer is active.
- **MONO** – lights up when the FM MODE key has been pressed to receive a mono signal.

POWER STANDBY/OFF

- Press the POWER STANDBY/OFF key ① to switch on the power. The receiver will enter the standby mode and the indicator above this key will light up.
When the receiver is switched to active mode (as described below in the chapters 'Wake-up from standby' and 'SOURCE SELECTION'), the respective indicators light up and the standby indicator is switched off. When a remote control command is received, this standby indicator flashes.
- To switch the receiver off press the POWER STANDBY/OFF ① key again.

STANDBY

- Switching the FR 931 or your whole system to standby can only be done via the remote control.
- To switch a single source (e.g. CD) to standby:
 - Select the source using the source keys on the remote control.
 - The selected source will be switched to standby if the standby key is pressed briefly.
- If the standby key is kept pressed for more than approx. 1 second, the whole system will be switched to standby. All light indicators will be switched off with the exception of the standby indicator on the receiver.
- **Note:** If the whole system is switched to standby when a recording is active, the recording (or CD-dubbing) will be cancelled.

Wake-up from standby

There are several options to switch your system from standby back to the operating mode:

- turning the rotary SOURCE SELECT knob ③;
- pressing one of the following keys: SLEEP ⑩, FM/AM ⑯ or digit keys ⑤.
- selecting a source with your remote control.
- Several keys on equipment connected via the ESI BUS sockets that activate a play function may also be used as wake-up keys (e.g. PLAY, SCAN, PRESET).

SOUND CONTROL

- Adjust the sound volume with VOLUME ⑪.
 - Adjust the stereo balance between the left and the right channels with BALANCE ⑦.
 - Adjust the bass tones with BASS ④ and the high tones with TREBLE ④.
- Warning:** Extreme settings at high volume may damage your loudspeakers!
- Press LOUDNESS ⑨ if you want to increase the bass & treble response at low volume settings.
 - Press SPEAKERS A ⑯ if you want to switch on the pair of speakers connected to the SPEAKERS A terminals and/or SPEAKERS B ⑯ to switch on the second pair connected to the SPEAKERS B terminals .
 - Use the SURROUND MODE keys ⑯ to select the desired sound effect: DOLBY PRO LOGIC, ... 3 CH, HALL, STADIUM, THEATER, SIMULATED, OFF.
 - Press MUTE ⑪ if you want to decrease the volume by 20 dB.
 - Press FM MODE ⑭ if you want to receive mono reception

SOURCE SELECTION



- When the receiver is in standby mode, it will be switched directly to operating mode as soon as the SOURCE SELECT knob ③ is turned.
 - The receiver and the selected source (indicated on the display) will become active.
- Note:** A selection is only made when you have stopped turning the knob ③ for more than one second (to prevent all sources becoming active while the knob is turning).
- By turning the SOURCE SELECT knob ③ one step to the left, you select the source to the left of the current source.
 - By turning the SOURCE SELECT knob ③ one step to the right, you select the source to the right of the current source.
 - You can also switch both the source and the receiver to the active mode by simply pressing 'PLAY' on CD or Deck or one of the tuner preset keys.

The sources that are selected at your receiver are indicated by the lighting of an indicator above the source name.
When a source is not selected, only the source name appears on the display.

Source selection via the remote-control handset

- Press (**for more than 1 second**) the respective source key on the remote control.
The selected source and the receiver will become active.

Note: When VCR or LD is selected, the source indication TV will light up.

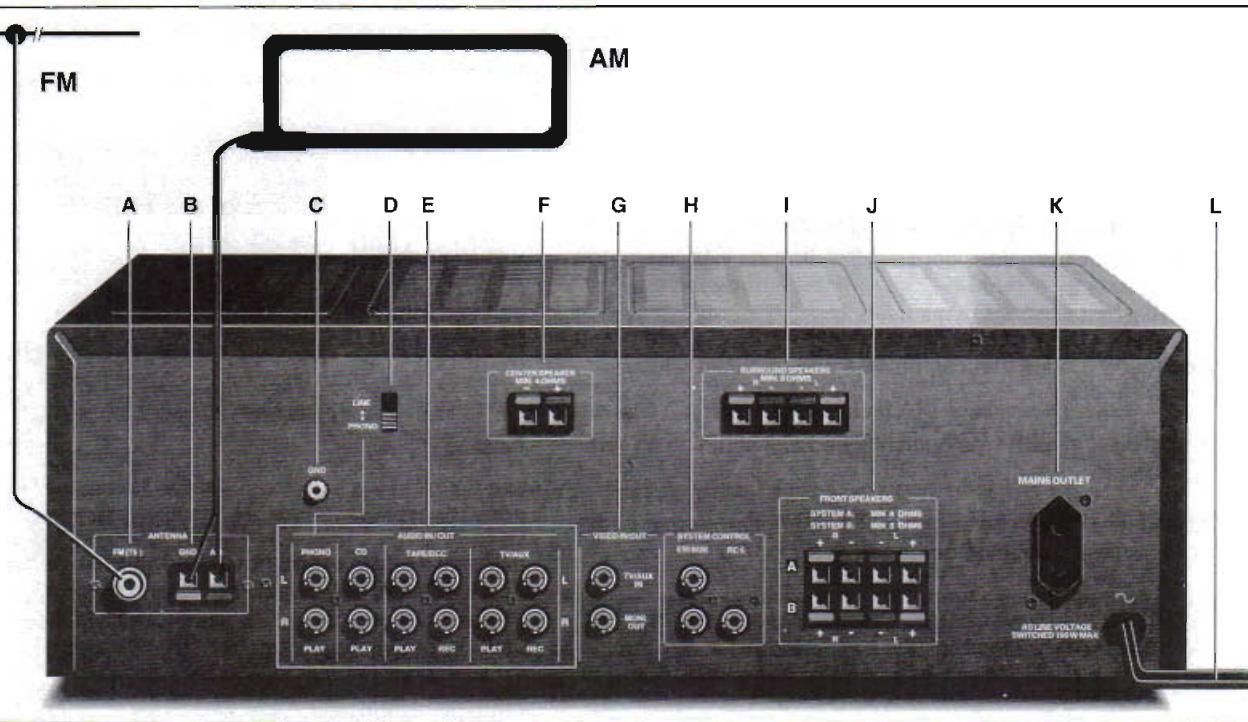


Figure 2

ALWAYS SWITCH OFF THE RECEIVER BEFORE MAKING ANY CONNECTIONS !

CONNECTIONS

(A) FM (75 Ω)

The FM (75 Ω) socket is used for connection to the Community or Cable Antenna System or to a roof-mounted FM antenna with an impedance of 75 ohms. If none of these are available, you may use the wire supplied for nearby stations (reception could be poor).

(B) GND/AM

For AM reception, connect the supplied wires to the GND and AM antenna terminals (one wire to GND and one wire to the AM terminal) and position the antenna for best reception.

Note: Do **not** place the AM loop antenna on the unit, as this unit employs a computing device which could cause interference.

(C) GND -

for connecting the ground wire of a record player.

(D) PHONO/LINE

– input selector for the PHONO/LINE input sockets.

(E) AUDIO IN/OUT

- PHONO/LINE – input sockets for connecting:

- PHONO: a record player with an 'MM' (Moving Magnet) cartridge (set the PHONO/LINE input selector (D) to PHONO); or
- LINE: other equipment provided with a LINE output (set the PHONO/LINE input selector (D) to LINE).

- CD – input sockets for connecting a CD player.

- TAPE/DCC – input and output sockets for connecting a cassette deck or a Digital Compact Cassette deck.

- TV/AUX – input and output sockets:

- input for connecting the sound channel of a TV set;
- input and output for connecting e.g. a video recorder or another cassette or tape deck (recording and playback).

(F) CENTER SPEAKER – terminals for connecting a center speaker, impedance 4 to 6 Ohms (Ω).

(G) VIDEO IN/OUT

- **TV/AUX IN** – input socket for connecting the video output of a TV set.
- **MONI. OUT** – output socket for connecting to the video input of a TV set.

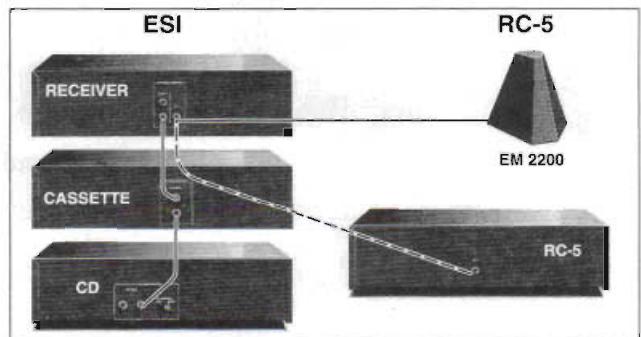
(H) SYSTEM CONTROL

- **ESI BUS** (Enhanced System Intelligence)(coloured green) Remote-control input/output sockets for connection to the corresponding ESI sockets of other components in your HiFi system (e.g. the Philips 900 series)
Connect the ESI socket to the ESI socket of external equipment which use the ESI remote control system.
By using the ESI Bus, you can operate other components via the FR 931's I(nfra) R(ed) sensor.

- **RC-5 BUS** (coloured orange) – remote-control input/output socket for connection to the corresponding RC-5 socket of a CD (Compact Disc) player or remote control receiver (e.g. EM 2200).

Connect the RC-5 socket to the RC-5 socket of the external equipment that uses the RC-5 remote control system.
(see figure below)

This socket has been added to maintain compatibility with older Philips Audio equipment.



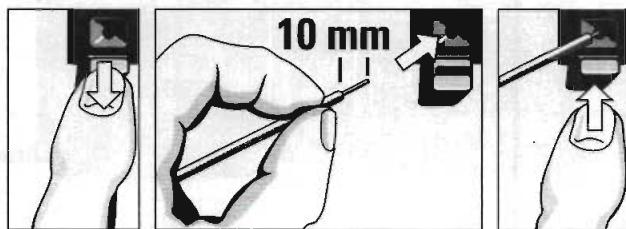
I SURROUND SPEAKERS – terminals for connecting a pair of surround speakers, impedance 8 to 16 Ohms (Ω) each, to obtain a surround sound effect.

NOTE: Always connect **two** speakers to these terminals

J FRONT SPEAKERS A/B – terminals for connecting two pairs of speakers, impedance 8-16 ohms (L = left, R = right).

SPEAKER CONNECTION

- One of the wires of a loudspeaker cable is marked with a color or rib. Connect the marked wire to the red terminal, the non-marked wire to the black one.
Make sure that all loudspeakers are connected in the same way.



SPEAKER POSITIONING

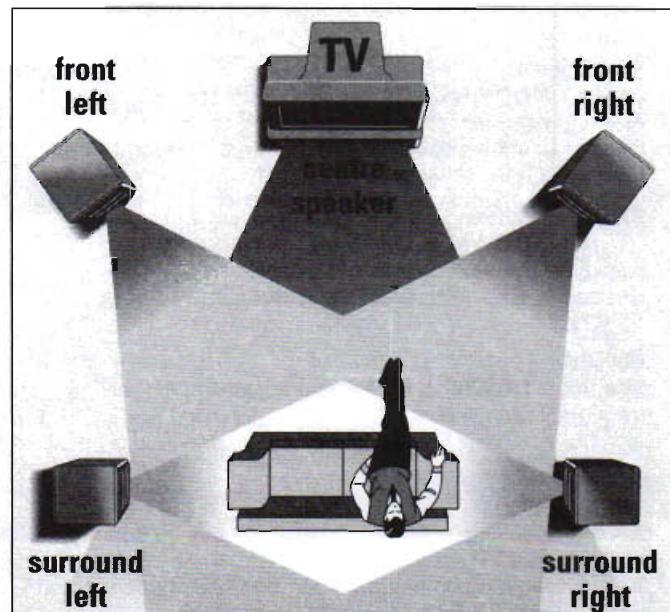
To get the best surround sound effect in your home, place the speakers as shown below.

The left and right speakers should be about 1 metre from the TV set.

The center speaker should be above or below the TV set.

The rear speakers should be placed at approx. 1 metre above normal listening ear level.

Note: to avoid interference with the TV picture, use only magnetically shielded speaker systems.



POWER

K MAINS OUTLET – switched mains output for connecting mains plugs from various units such as cassette deck, CD player, etc. (maximum capacity is 100 W).

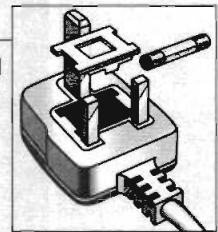
L MAINS LEAD

Important notes for users in the U.K.

Mains plug

This apparatus is fitted with an approved moulded 13 Amp plug. To change a fuse in this type of plug proceed as follows:

- Remove fuse cover and fuse.
- Fix new fuse which should be a BS1362 5 Amp, A.S.T.A. or BSI approved type.
- Refit the fuse cover.



If the fitted plug is not suitable for your socket outlets, it should be cut off and an appropriate plug fitted in its place. If the mains plug contains a fuse, this should have a value of 5 Amp. If a plug without a fuse is used, the fuse at the distribution board should not be greater than 5 Amp.

Note: The severed plug must be disposed to avoid a possible shock hazard should it be inserted into a 13 Amp socket elsewhere.

How to connect a plug

The wires in the mains lead are coloured with the following code: blue = neutral (N), brown = live (L).

As these colours may not correspond with the colour markings identifying the terminals in your plug, proceed as follows:

- Connect the blue wire to the terminal marked N or coloured black.
- Connect the brown wire to the terminal marked L or coloured red.
- Do not connect either wire to the earth terminal in the plug, marked E (or $\frac{1}{2}$) or coloured green (or green and yellow).

Before replacing the plug cover, make certain that the cord grip is clamped over the sheath of the lead - not simply over the two wires.

GB

Safety regulations require that the set be restored to its original condition and that parts which are identical with those specified, be used.

NL

Veiligheidsbepalingen vereisen, dat het apparaat bij reparatie in zijn oorspronkelijke toestand wordt teruggebracht en dat onderdelen, identiek aan de gespecificeerde, worden toegepast.

F

Les normes de sécurité exigent que l'appareil soit remis à l'état d'origine et que soient utilisées les pièces de rechange identiques à celles spécifiées.

D

Bei jeder Reparatur sind die geltenden Sicherheitsvorschriften zu beachten. Der Original zustand des Geräts darf nicht verändert werden; für Reparaturen sind Original-Ersatzteile zu verwenden.

I

Le norme di sicurezza esigono che l'apparecchio venga rimesso nelle condizioni originali e che siano utilizzati i pezzi di ricambio identici a quelli specificati.

"After servicing and before returning set to customer perform a leakage current measurement test from all exposed metal parts to earth ground to assure no shock hazard exist. The leakage current must not exceed 0.5mA."

S Varning!

Osynlig laserstrålning när apparaten är öppnad och spärren är urkopplad.
Betrakta ej strålen.

SF Varo!

Avatussa laitteessa ja suojaalukituksen ohitettaessa olet alittiina näkymättömälle lasersäteilylle. Älä katso sääteen!
Aviso: En elas laitteen ja suojaalukituksen avautua, olet alittuina näkymättömälle lasersäteilylle. Älä katso sääteen!

GB WARNING

All ICs and many other semi-conductors are susceptible to electrostatic discharges (ESD). Careless handling during repair can reduce life drastically. When repairing, make sure that you are connected with the same potential as the mass of the set via a wrist wrap with resistance. Keep components and tools also at this potential.

ESD**NL** WAARSCHUWING

Alle IC's en vele andere halfgeleiders zijn gevoelig voor electrostatische ontladingen (ESD). Onzorgvuldig behandelen tijdens reparatie kan de levensduur drastisch doen verminderen. Zorg ervoor dat u tijdens reparatie via een polsband met weerstand verbonden bent met hetzelfde potentiaal als de massa van het apparaat. Houd componenten en hulpmiddelen ook op ditzelfde potentiaal.

F ATTENTION

Tous les IC et beaucoup d'autres semi-conducteurs sont sensibles aux décharges statiques (ESD). Leur longévité pourrait être considérablement écourtée par le fait qu'aucune précaution n'est prise à leur manipulation. Lors de réparations, s'assurer de bien être relié au même potentiel que la masse de l'appareil et enfile le bracelet serré d'une résistance de sécurité. Veiller à ce que les composants ainsi que les outils que l'on utilise soient également à ce potentiel.

D WARNUNG

Alle ICs und viele andere Halbleiter sind empfindlich gegenüber elektrostatischen Entladungen (ESD). Unsorgfältige Behandlung im Reparaturfall kann die Lebensdauer drastisch reduzieren. Verlassen Sie, dass Sie im Reparaturfall über ein Pulsarmband mit Widerstand verbunden sind mit dem gleichen Potential wie die Masse des Gerätes. Bauteile und Hilfsmittel auch auf dieses gleiche Potential halten.

I AVVERTIMENTO

Tutti IC e parecchi semi-conduttori sono sensibili alle scariche statiche (ESD). La loro longevità potrebbe essere fortemente ridotta in caso di non osservazione della più grande cautela alla loro manipolazione. Durante le riparazioni occorre quindi essere collegato allo stesso potenziale che quello della massa dell'apparecchio tramite un braccialetto a resistenza. Assicurarsi che i componenti e anche gli utensili con quali si lavora siano anche a questo potenziale.

Alignment & Adjustments

SK...							
IF Alignment IF Align							
AM	450kHz	A	450kHz	T102	*2		MAX
FM	10.7MHz	B	10.7MHz	T103	*2		0.0V
RF Alignment							
AM	522kHz	A	522kHz	L105	*1		1.2V ± 0.05V
AM	1611kHz	A	1611kHz	—	*1		CHECK 7.5V
FM	87.5MHz	B	87.5MHz	—	*1		CHECK 1.5V
FM	108MHz	B	108MHz	—	*1		CHECK 8.0V
Sensitivity Alignment							
AM	603kHz	A	603kHz	L104	*2		MAX.
AM	1404kHz	A	1404kHz	TC104	*2		MAX.

SK...							
T. H. D. Adjustment							
FM	98MHz MOD. = 1kHz DEV. = 45kHz	B #1		T103	*3	0.0V	
FM	98MHz MOD. = 1kHz DEV. = 45kHz	B #1		FE417-G02 IFT	*3	T.H.D. MIN.	
Auto Tuning Sensitivity Adjustment							
FM	98MHz/20dB	B	98MHz	SFR101	*3	LOCK AT 26dB	
AM	999kHz/60dB	A	999kHz	SFR102	*2	LOCK AT 60dB	
MPX Separation Adjustment							
FM	98MHz	B	98MHz	SFR103	*2	SEPARATION OVER 35dB	

*1 Across TP1 & TP2

*2 Across Tape Out

*3 Across CN101

#1 See Fig. 3

Repeat ↑

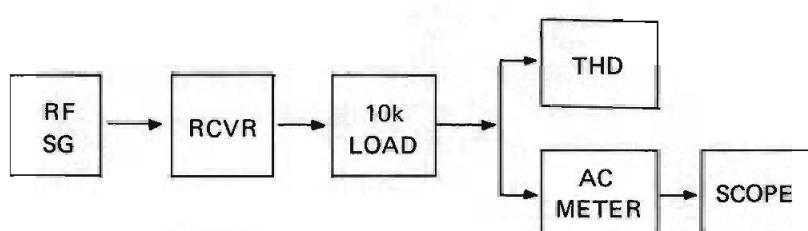
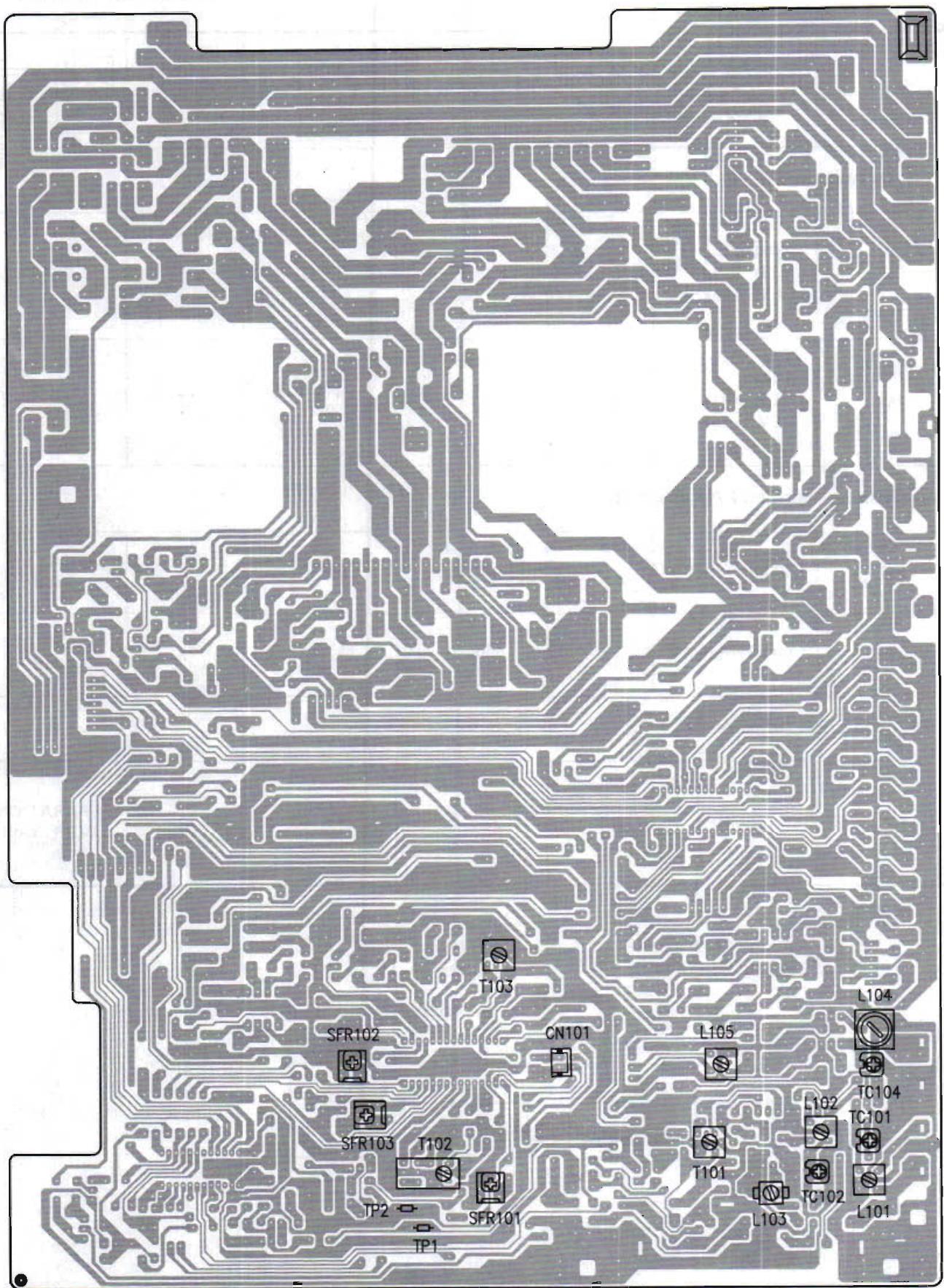


Figure 3

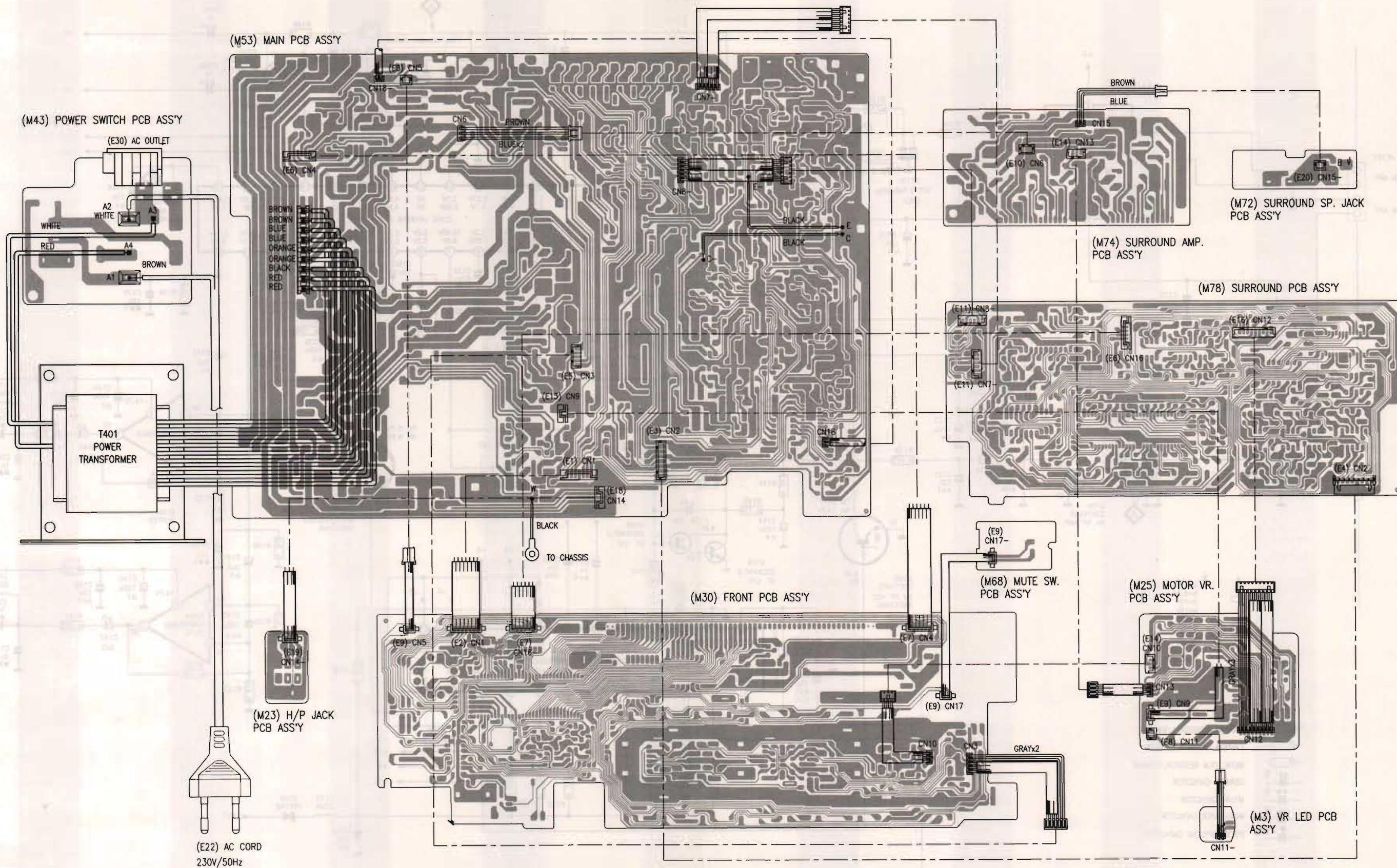
Main Board Test Point

Main P C Board

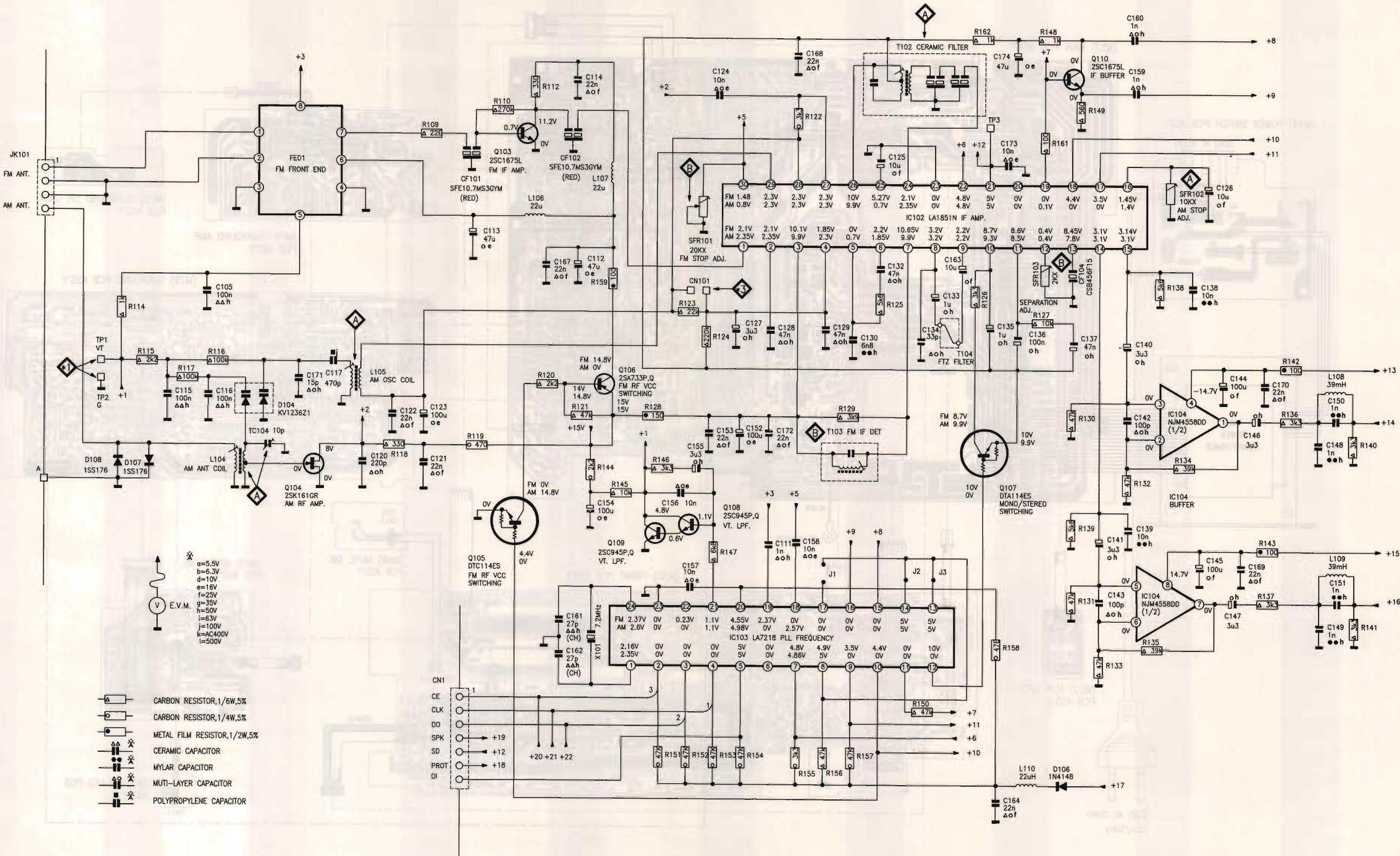


Wiring Diagram-Component Side

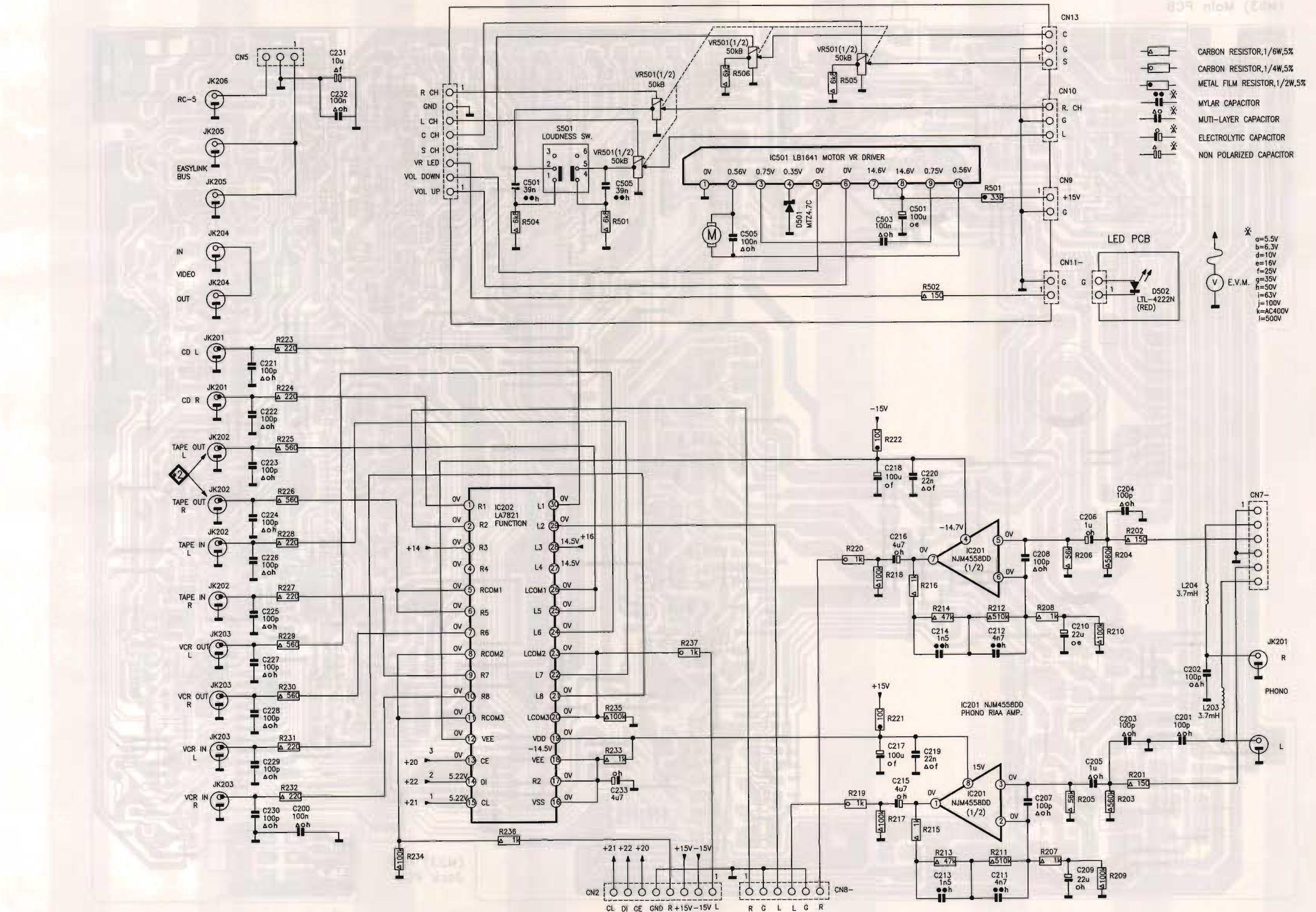
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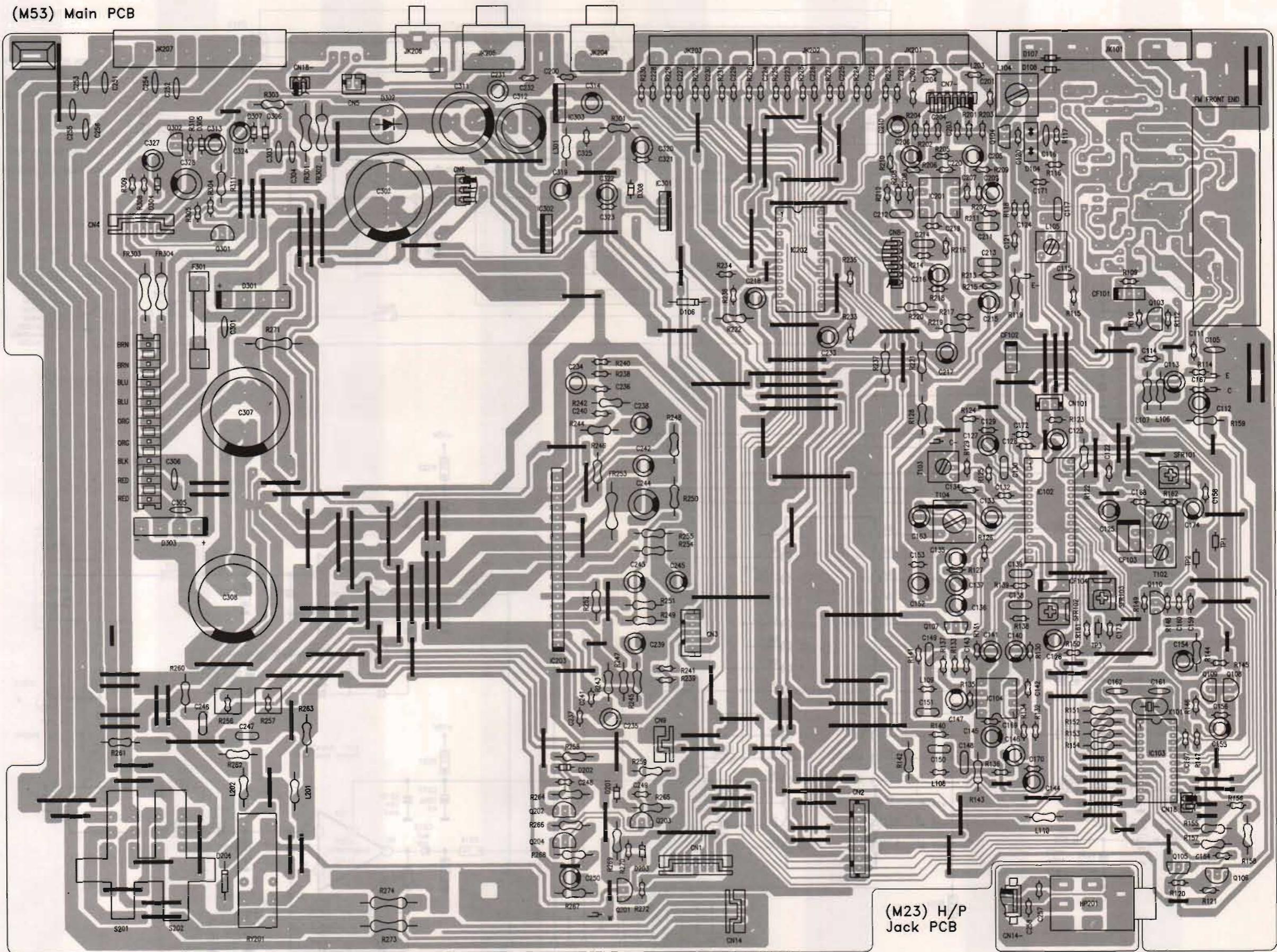
Schematic Diagram – Tuner



Schematic Diagram - Function Selector

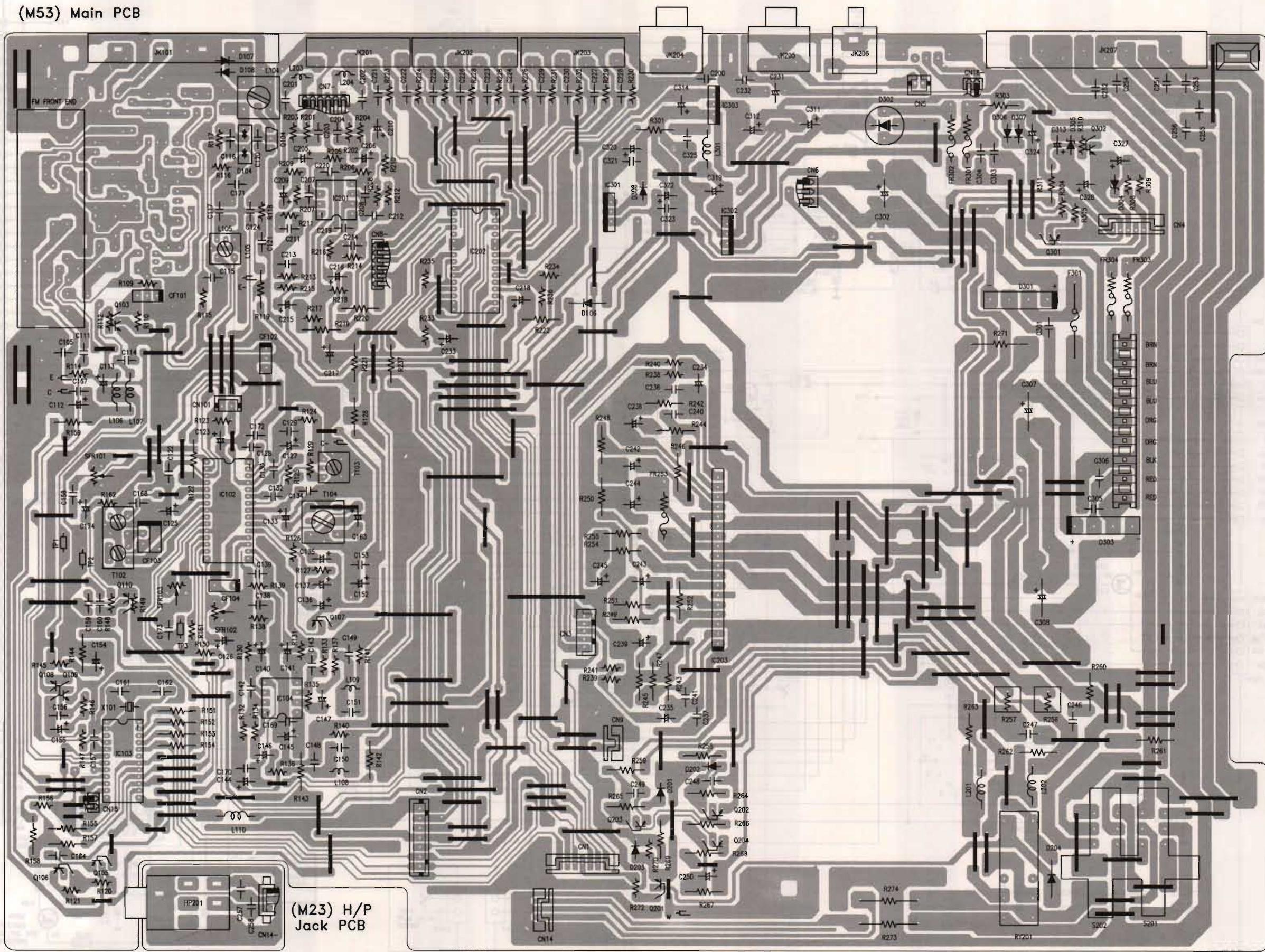


(M53) Main PCB

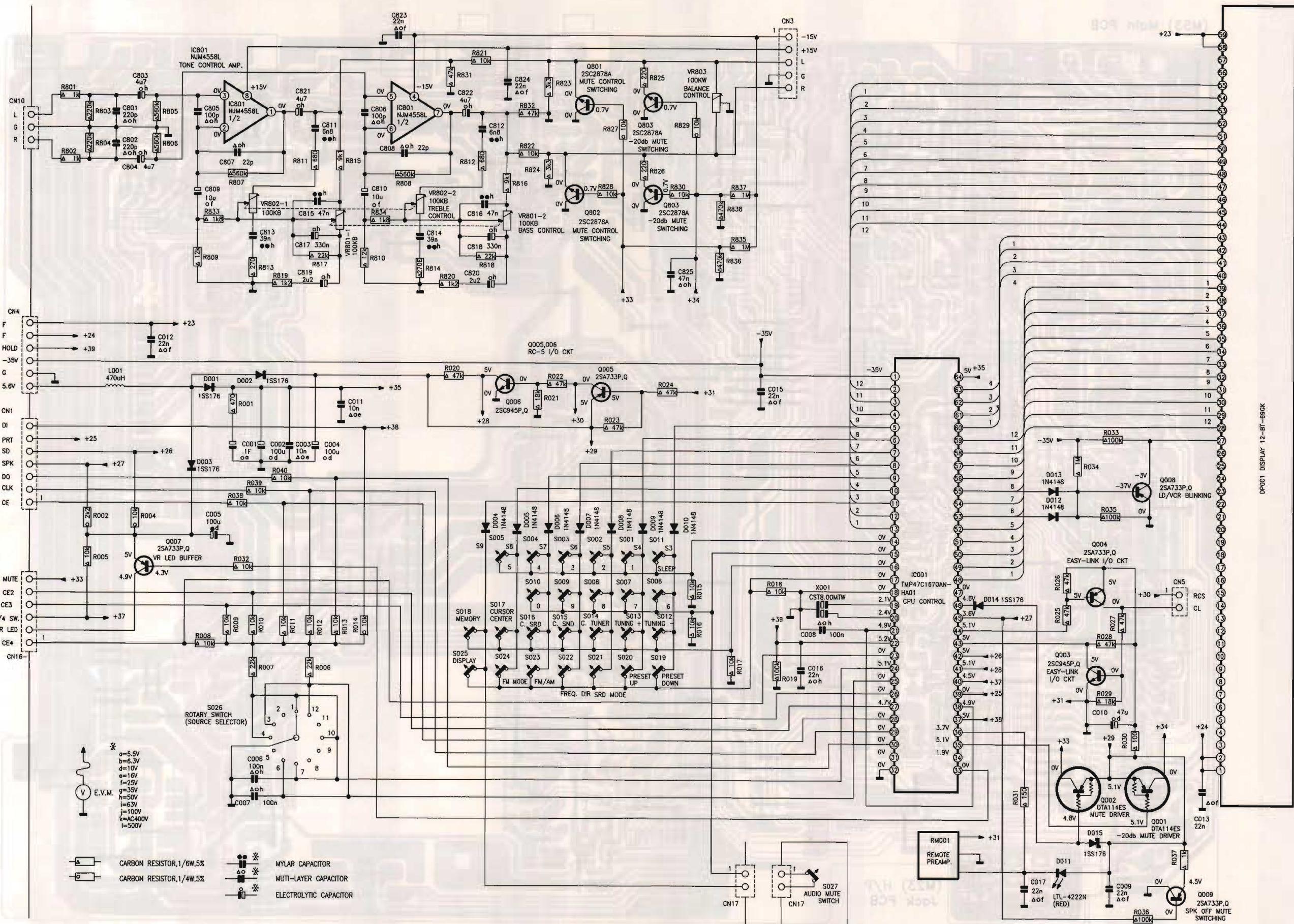


(M23) H/P Jack PCB

(M53) Main PCB



Schematic Diagram-Front

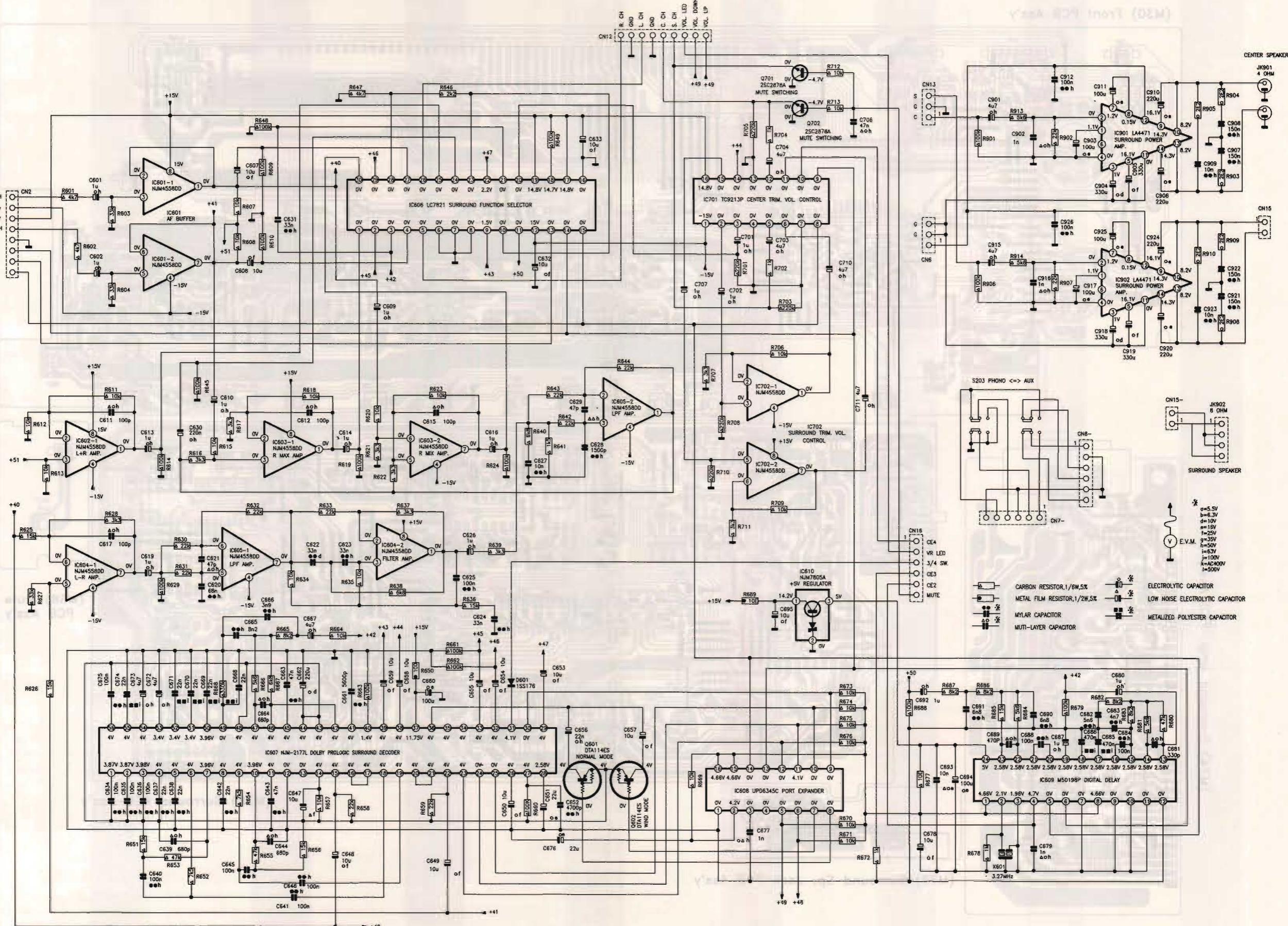


*
a=5.5V
b=6.3V
d=10V
e=16V
f=25V
g=35V
h=50V
i=63V
j=100V
k=AC400V
l=500V

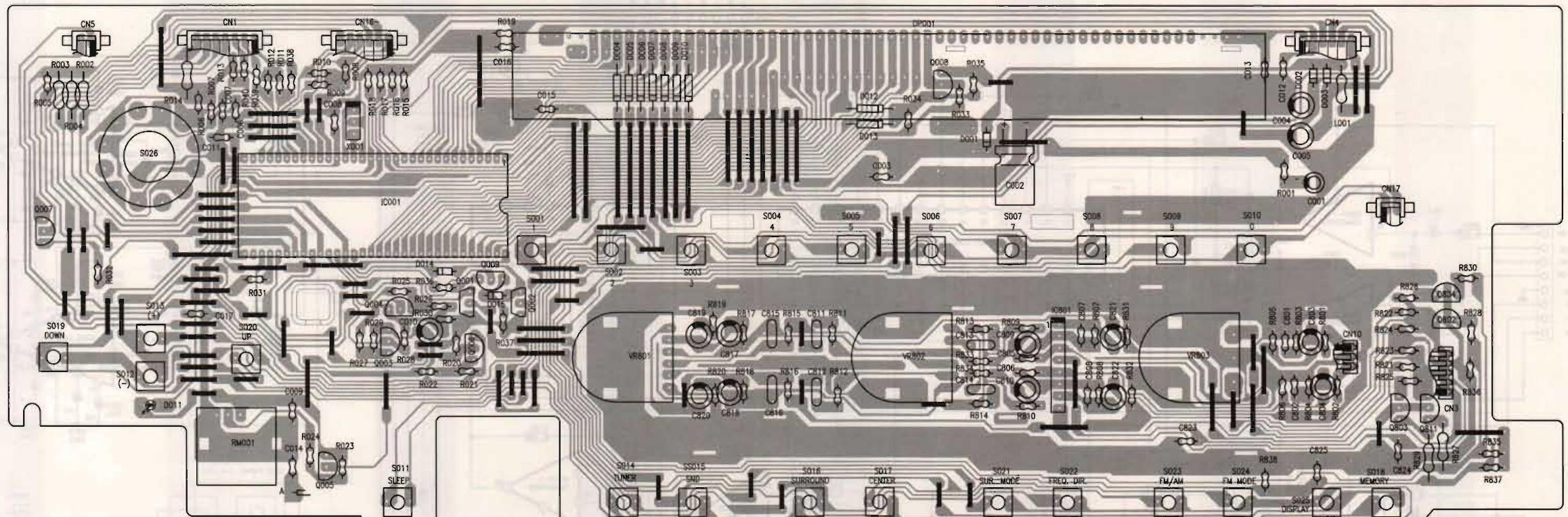
CARBON RESISTOR, 1/6W, 5%
CARBON RESISTOR, 1/4W, 5%

MYLAR CAPACITOR
MULTI-LAYER CAPACITOR
ELECTROLYTIC CAPACITOR

Schematic Diagram-Surround



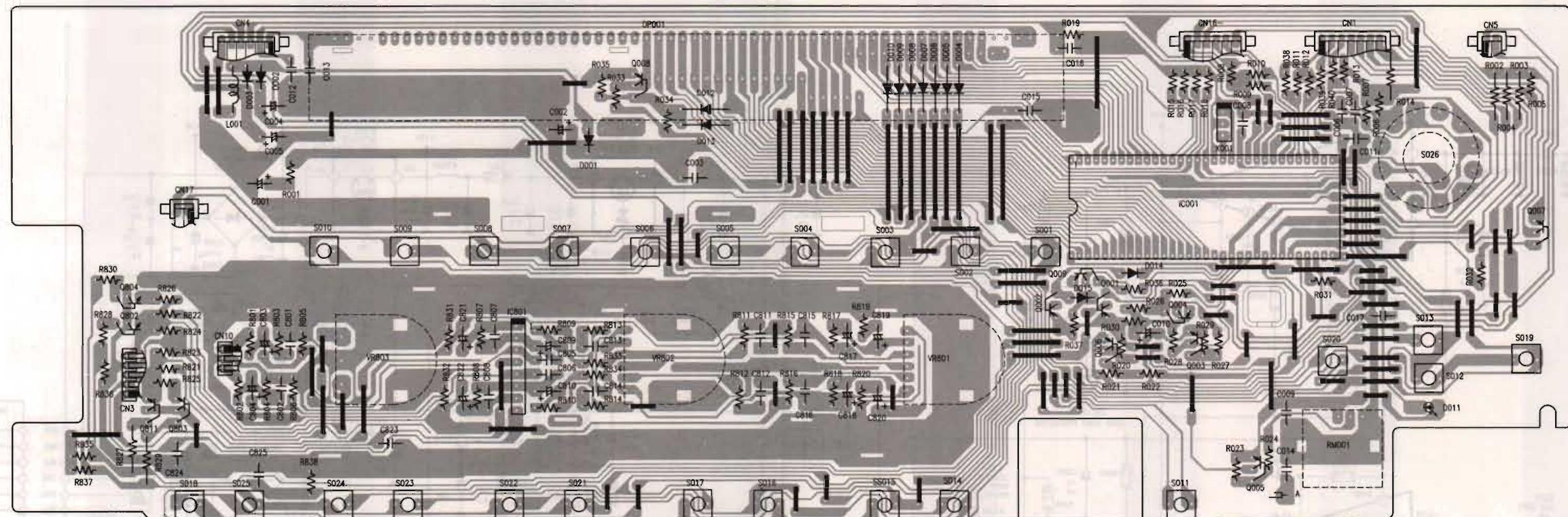
(M30) Front PCB Ass'y



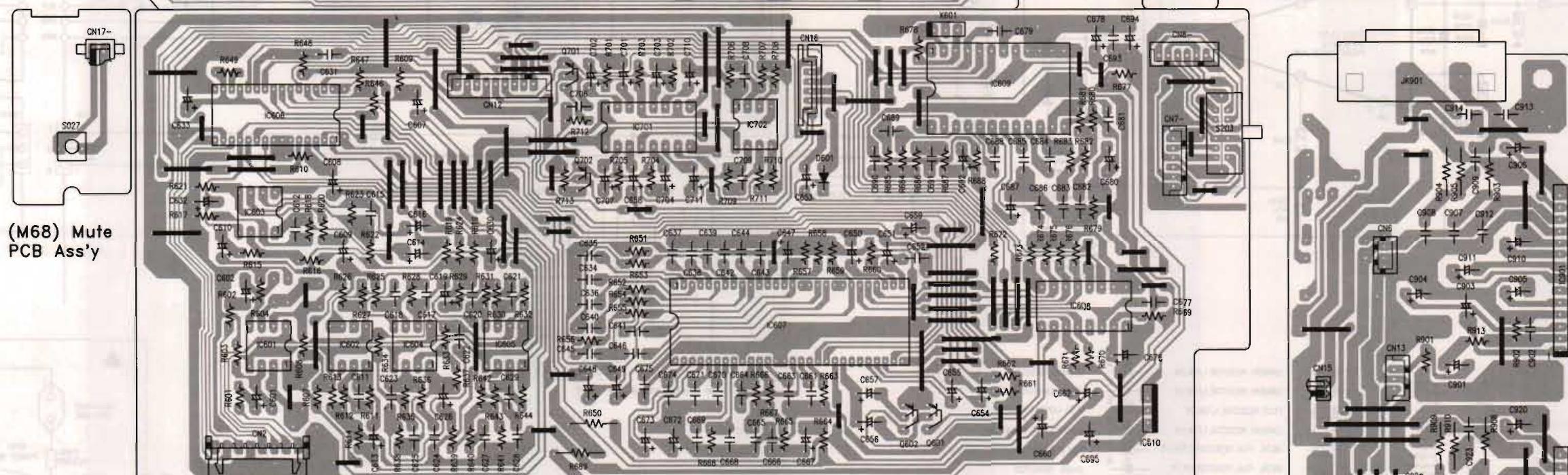
P C Board-Solder Side

Speaker-Driver-Power

(M30) Front PCB Ass'y



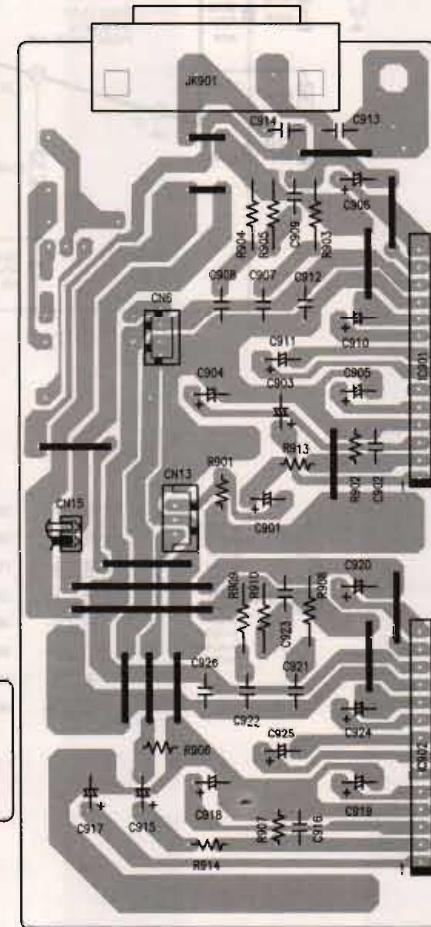
(M68) Mute
PCB Ass'y



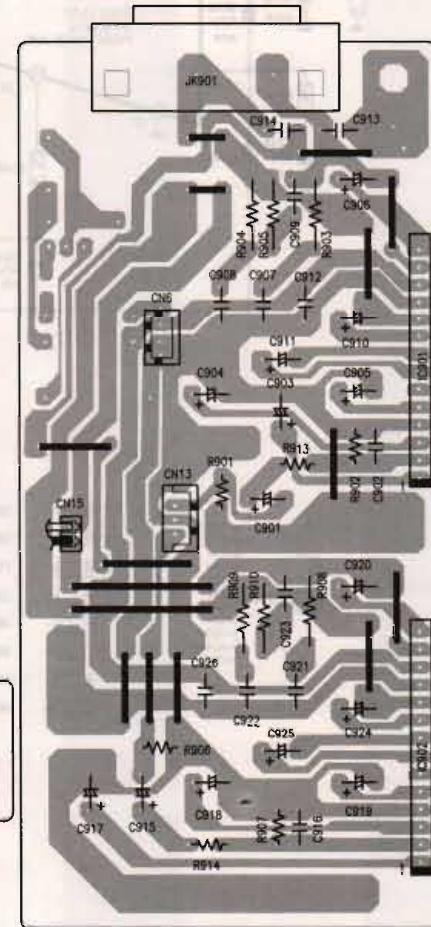
(M78) Surround PCB Ass'y



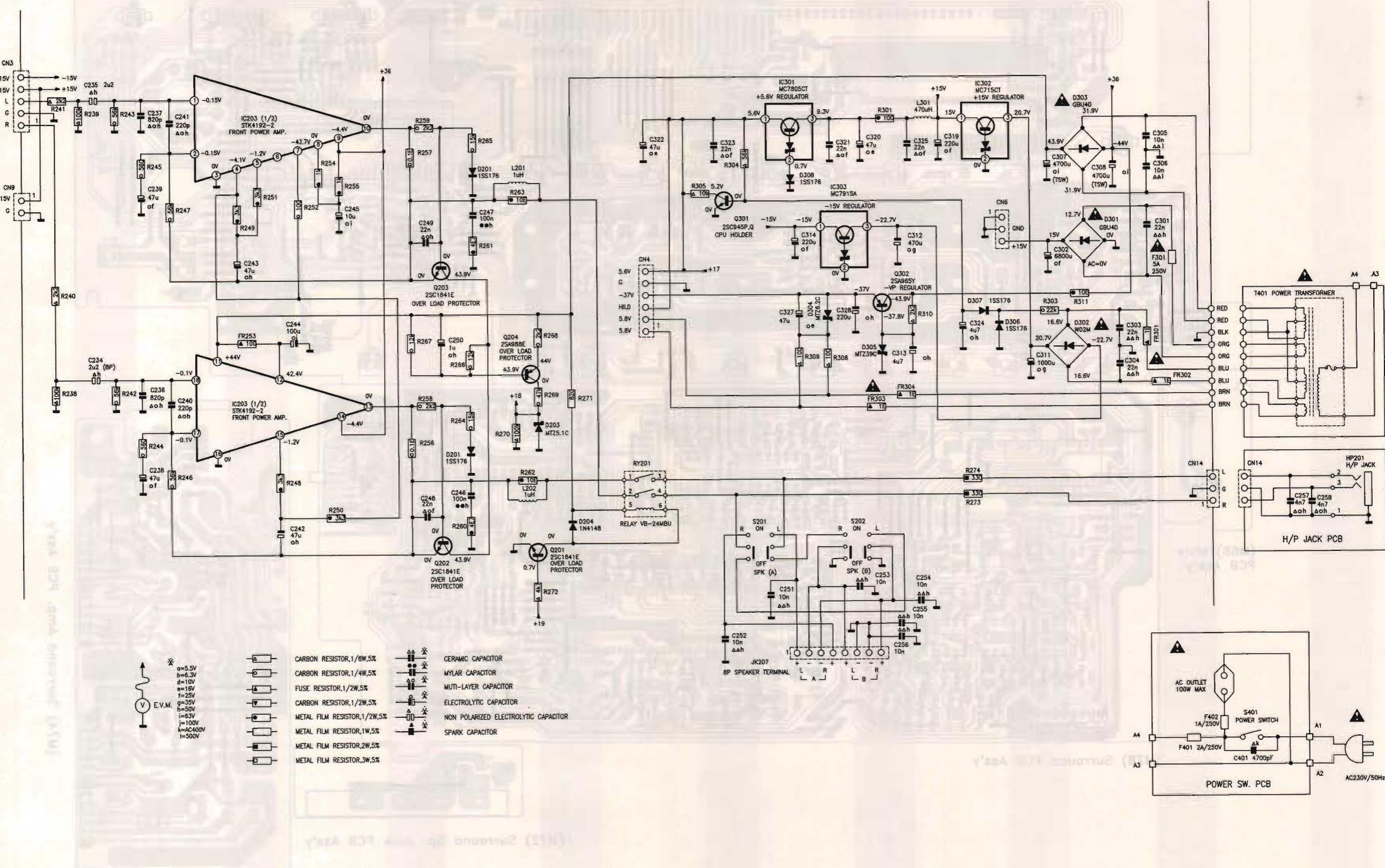
(M72) Surround Sp. Jack PCB Ass'y

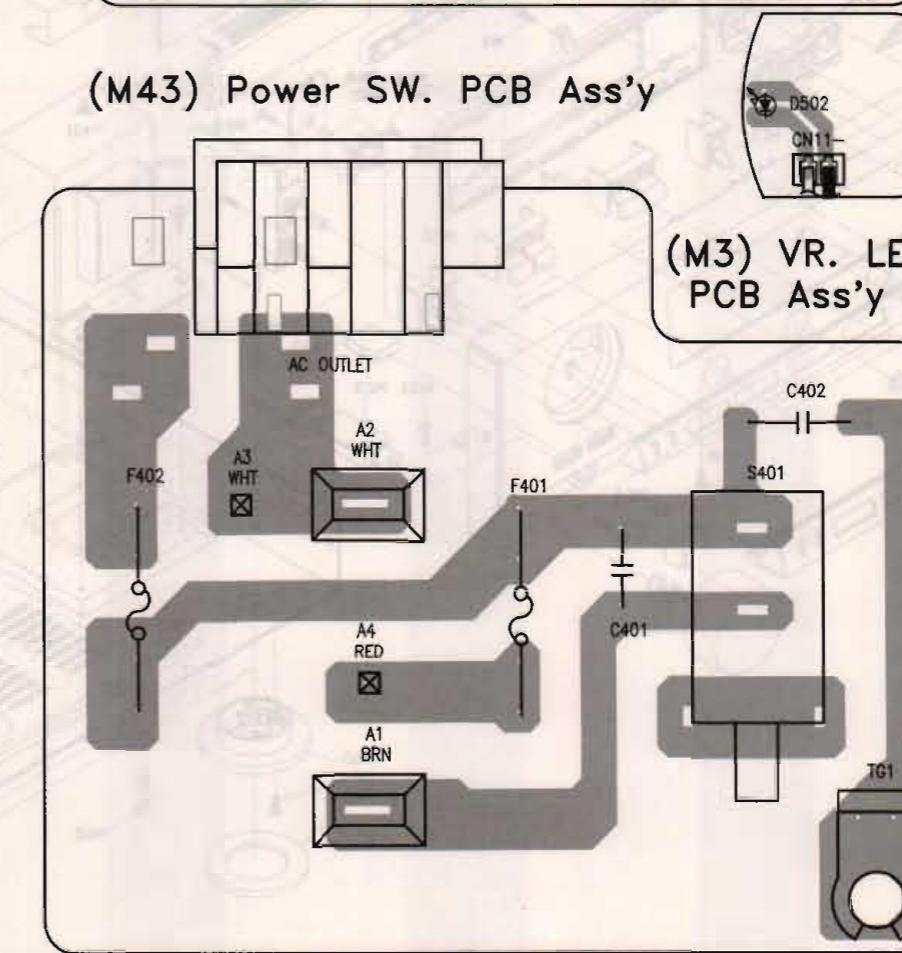
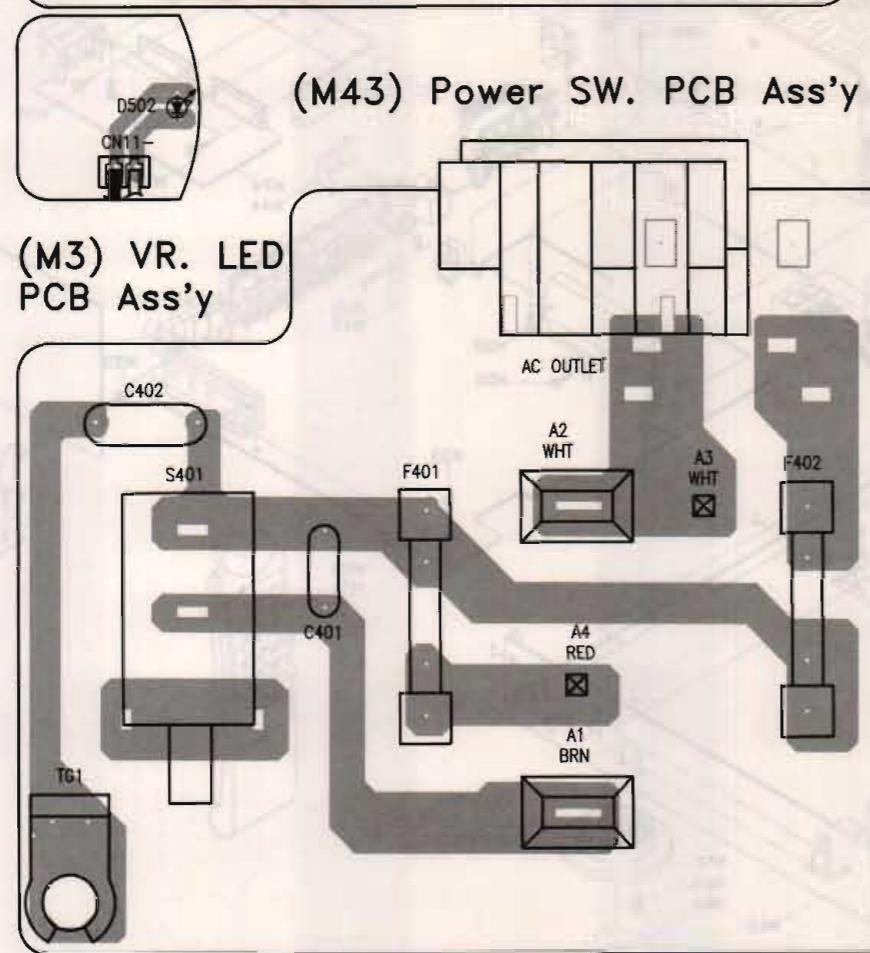
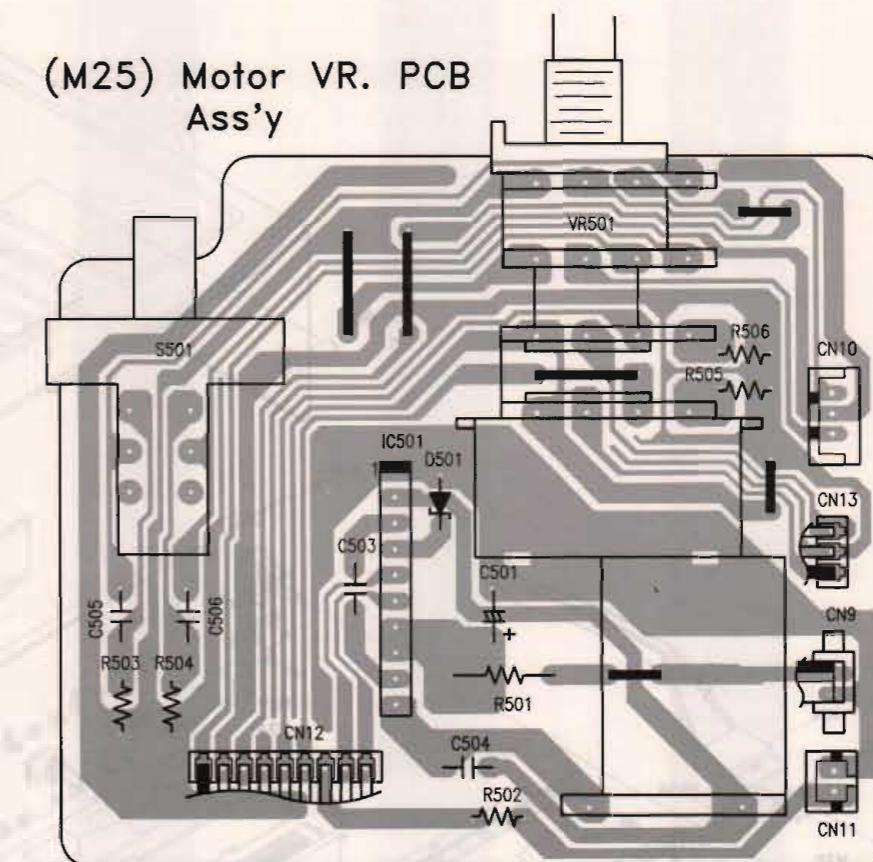
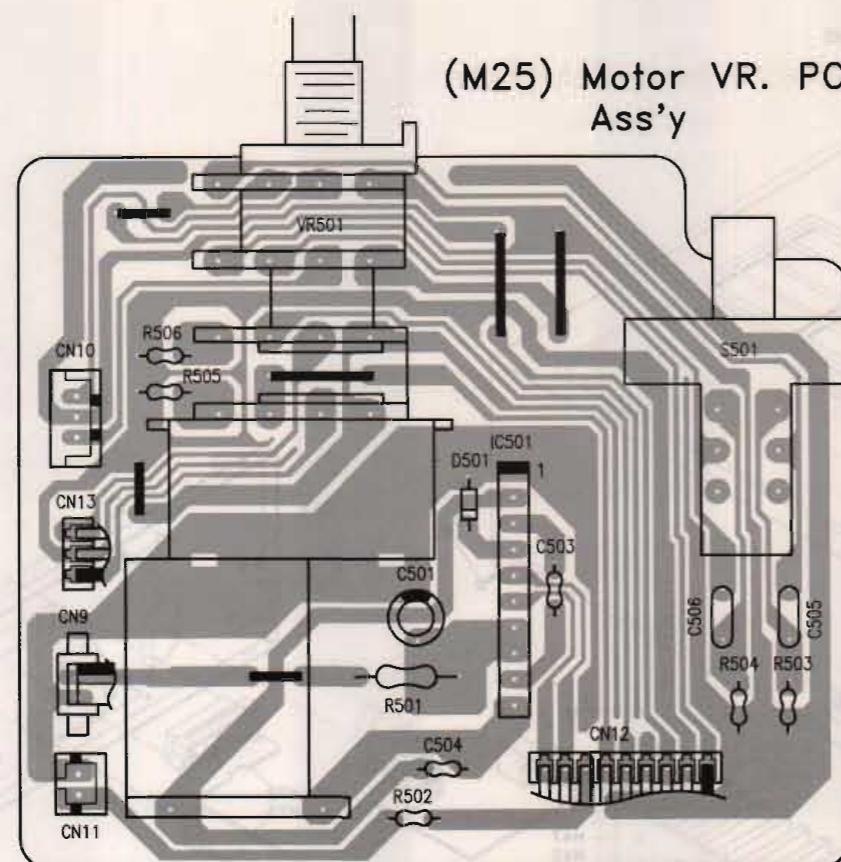


(M74) Surround Amp. PCB Ass'y

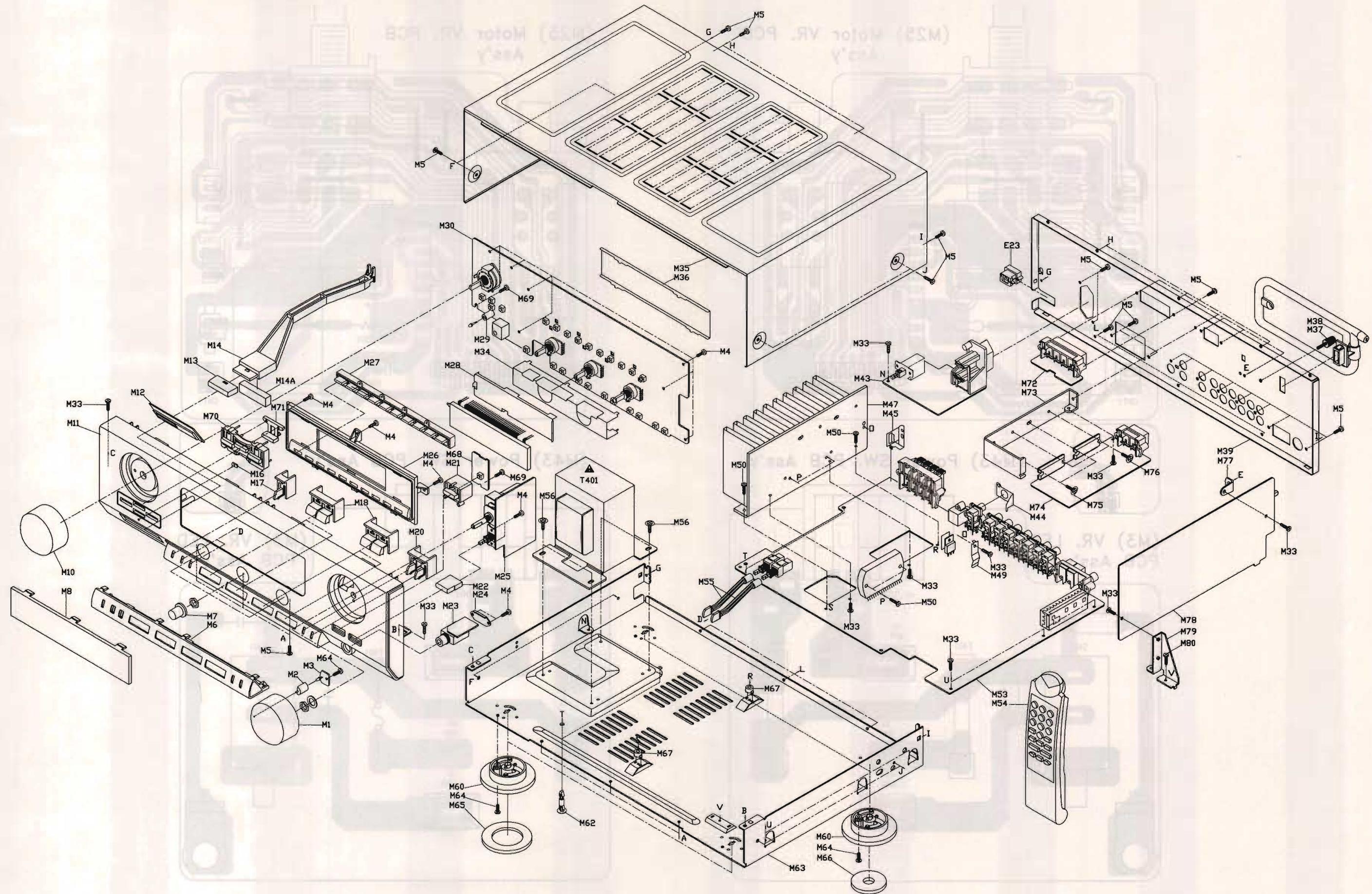


Schematic Diagram - Power





Mechanical Exploded View



Mechanical Parts List

Ref.	Description	Part No.	Ref.	Description	Part No.
M1	Volume knob	4822 413 51444	M71	Cursor knob (-)	4822 410 63252
M2	Volume lens	4822 381 11388	M72	Surround speaker jack PCB assembly	-----
M3	VR LED PCB assembly	-----	M73	Heat sink	-----
M6	Front nose	4822 426 90117	M74	Surround amplifier PCB assembly	-----
M7	Tone knob (3 used)	4822 413 41856	M77	PCB bracket	-----
M8	Display window	4822 450 62018	M78	Surround PCB assembly	-----
M10	Select knob	4822 413 51445	M79	ADD PCB bracket	-----
M11	Front escutcheon	4822 413 51445			
M12	IR window	4822 426 51741			
M13	Power knob	4822 450 62247			
M14	Power joint	4822 410 62451			
M14A	Knob spacer	-----			
M16	Power lens	4822 381 11387			
M17	Sleep button	4822 410 63219			
M18	Function button (A) (4 used)	4822 410 62452	M4	7 (Taptite-P) BID3010 ZN3A (15 used)	-----
M20	Memory button	4822 410 63221	M5	9 (Taptite-B) BID3008 ZN3K (32 used)	-----
M21	Muting button	4822 410 62456	M33	9 (Taptite-B) BID3008 ZN3A (12 used)	-----
M22	Loudness knob	4822 410 62473	M50	9 (Taptite-B) BID3014 ZN3A (4 used)	-----
M23	Headphone jack PCB assembly	-----	M56	6 (Taptite-S) CUP4006 ZN3A (4 used)	-----
M24	Phone jack holder	-----	M64	7 (Taptite-P) BID3008 ZN3A (5 used)	-----
M25	Motor variable resistor PCB assembly	-----	M69	7 (Taptite-P) CUP3010 ZN3A (2 used)	-----
M26	Window base	4822 459 40775	M75	9 (Taptite-B) CUP3012 ZN3A (2 used)	-----
M27	Preset knob	4822 410 63253	M76	9 (Taptite-B) CUP3010 ZN3A (2 used)	-----
M28	F.T.D. holder	-----	M80	9 (Taptite-B) BID3006 ZN3A	-----
M29	LED holder (305)	-----			
M30	Front PCB assembly	-----			
M34	Shield cover 02	-----			
M35	Top cover	-----			
M36	Shield cover 03	-----			
M37	GND knob 3Q	4822 413 90097			
M38	Antenna holder	4822 256 92196			
M39	Back board	-----			
M43	Power switch PCB assembly	-----			
M44	Earth terminal (S)	4822 290 40497			
M45	Earth terminal (R)	-----			
M47	Heat sink assembly	-----			
M49	Transistor IC holder	4822 255 41328	A1	Snow box (R)	-----
M53	Main PCB assembly	-----	A2	Snow box (L)	-----
M54	Remote transmitter assembly	4822 218 10545	A3	Gift box	-----
M55	Speaker knob (2 used)	4822 410 62474	A4	Soft sheet 60x110cm	-----
M60	Foot (4 used)	4822 462 42093	A5	Instruction book	4822 736 22216
M62	Spacer supporter A (2 used)	4822 404 21256	A6	Poly bag (I/B) 23x40cm	-----
M63	Bottom chassis	-----	A7	Poly bag (AC cord) 5x20CM	-----
M65	Sole plate F (2 used)	4822 466 62491	A19	Serial No. label (BLK)	-----
M66	Sole plate R (2 used)	4822 466 62491		Serial No. label (WHT)	-----
M67	Spacer supporter (2 used)	-----	A21	G/B label	-----
M68	Mute switch PCB assembly	-----	A22	ES1 pop label	-----
M70	Cursor knob (U.D.)	4822 410 63251	A23	Warranty card	-----

Note: ----- Indicates a not normally stocked item.

Replacement Parts List

Ref.	Description	Part No.	Ref.	Description	Part No.
COILS & FILTERS					
L001	Peaking coil 470uH	4822 157 70363	C123	100uF/16V (M) Electrolytic	4822 124 80481
L101	FM antenna coil PC-9269	4822 157 71193	C124	.01uF/16V (K)	4822 126 12545
L102	FM RF coil PC-8867	4822 157 60175	C125	10uF/25V (M) Electrolytic	4822 124 42417
L103	FM oscillator coil R22-F036X	4822 156 10928	C126	10uF/25V (M) Electrolytic	4822 124 42417
L104	AM antenna coil TWS-358-638	4822 156 21683	C127	3.3uF/50V (M) Electrolytic	4822 124 80428
L105	AM oscillator coil TWS-358-673	4822 157 70979	C128	.047uF/50V (Z)	4822 126 12541
L106	Peaking coil 22uH	4822 157 70206	C129	.047uF/50V (Z)	4822 126 12541
L107	Peaking coil 22uH	4822 157 70206	C130	.0068uF/50V (J) Mylar	4822 121 70263
L108	Inductance 39uH	4822 156 21684	C132	.047uF/50V (Z)	4822 126 12541
L109	Inductance 39uH	4822 156 21684	C133	1uF/50V (M) Electrolytic	4822 124 40242
L110	Peaking coil 22uH	4822 157 70206	C134	33pF/50V (J)	4822 126 12595
L201	Spring coil 1.0uH	4822 157 70362	C135	1uF/50V (M) Electrolytic	4822 124 40242
L202	Spring coil 1.0uH	4822 157 70362	C136	0.1uF/50V (M) Electrolytic	5322 124 41473
L203	Ring coil 3.7uH	4822 157 70364	C137	.47uF/50V (M) Electrolytic	4822 124 20719
L204	Ring coil 3.7uH	4822 157 70364	C138	.01uF/50V (J) Mylar	4822 121 41857
L301	Peaking coil 470uH	4822 157 70363	C139	.01uF/50V (J) Mylar	4822 121 41857
T101	FM IFT TWS-358-425	4822 156 10938	C140	3.3uF/50V (M) Electrolytic	4822 124 80428
T102	Ceramic filter TWS-358-679	4822 242 81643	C141	3.3uF/50V (M) Electrolytic	4822 124 80428
T103	FM IF DET TWS-358-675	4822 157 70982	C142	100pF/50V (K)	4822 126 12532
T104	FTZ L.P.F. 10FE01	4822 156 21682	C143	100pF/50V (K)	4822 126 12532
T401	▲ Power transformer EI-86 (T)	4822 146 31418	C144	100uF/25V (M) Electrolytic	4822 124 40207
CF101	Ceramic filter SFE10.7MS3GYM RED	4822 242 72243	C145	100uF/25V (M) Electrolytic	4822 124 40207
CF102	Ceramic filter SFE10.7MS3GYM RED	4822 242 72243	C146	3.3uF/50V (M) Electrolytic	4822 124 80428
CF104	Resonator CSB456F15	4822 242 81644	C147	3.3uF/50V (M) Electrolytic	4822 124 80428
X001	Ceramic resonator CST8.00MTW	4822 242 81758	C148	.001uF/50V (J) Mylar	4822 121 43897
X601	Ceramic resonator CST3.27MGW	4822 242 81757	C149	.001uF/50V (J) Mylar	4822 121 43897
CAPACITORS					
Note: All capacitors are Multi-layer ceramic, unless otherwise noted. C=±0.25pF D=±0.5pF J=±5% K=±10% N=±30% Z=+80/-20% M=±20% CH: Temperature compensation capacitor, temperature draft within 0±60PPM/°C					
C001	0.1F/5.5V (Z) Gold	4822 124 22896	C150	.001uF/50V (J) Mylar	4822 121 43897
C002	100uF/10V (M) Electrolytic	4822 124 80824	C151	.001uF/50V (J) Mylar	4822 121 43897
C003	.01uF/16V (K)	4822 126 12545	C152	100uF/16V (M) Electrolytic	4822 124 80481
C004	100uF/10V (M) Electrolytic	4822 124 80426	C153	.022uF/25V (Z)	4822 126 12545
C005	100uF/10V (M) Electrolytic	4822 124 80426	C154	100uF/16V (M) Electrolytic	4822 124 80481
C006	.1uF/50V (Z)	4822 126 12539	C155	3.3uF/50V (M) Electrolytic	4822 124 80428
C007	.1uF/50V (Z)	4822 126 12539	C156	.01uF/16V (K)	4822 126 12545
C008	.1uF/50V (Z)	4822 126 12539	C157	.01uF/16V (K)	4822 126 12545
C009	.022uF/25V (Z)	4822 126 12547	C158	.01uF/16V (K)	4822 126 12545
C010	47uF/10V (M) Electrolytic	4822 124 80429	C159	.001uF/50V (K)	4822 126 12533
C011	.01uF/16V (K)	4822 126 12545	C160	.001uF/50V (K)	4822 126 12533
C012	.022uF/25V (Z)	4822 126 12547	C161	27pF/50V (J) Ceramic "CH"	5322 122 32776
C013	.022uF/25V (Z)	4822 126 12547	C162	27pF/50V (J) Ceramic "CH"	5322 122 32776
C014	.1uF/50V (Z)	4822 126 12539	C163	10uF/25V (M) Electrolytic	4822 124 40248
C015	.022uF/25V (Z)	4822 126 12547	C164	.022uF/25V (Z)	4822 126 12547
C016	.1uF/50V (Z)	4822 126 12539	C165	.022uF/25V (Z)	4822 126 12547
C105	.1uF/50V (Z) Ceramic	4822 126 13224	C166	.022uF/25V (Z)	4822 126 12547
C111	.001uF/50V (K)	4822 126 12533	C167	.022uF/25V (Z)	4822 126 12547
C112	47uF/16V (M) Electrolytic	4822 124 40433	C168	.022uF/25V (Z)	4822 126 12547
C113	47uF/16V (M) Electrolytic	4822 124 40433	C169	.022uF/25V (Z)	4822 126 12547
C114	.022uF/25V (Z)	4822 126 12547	C170	.022uF/25V (Z)	4822 126 12547
C115	.1uF/50V (Z) Ceramic	4822 126 13224	C171	15pF/50V (J)	4822 122 31823
C116	.1uF/50V (Z) Ceramic	4822 126 13224	C172	.022uF/25V (Z)	4822 126 12547
C117	470pF/100V (J) Polypropylen	4822 121 43381	C173	.01uF/16V (K)	4822 126 12545
C120	220pF/50V (K)	4822 126 12534	C174	47uF/16V (M) Electrolytic	4822 124 40433
C121	.022uF/25V (Z)	4822 126 12547	C175	.1uF/50V (Z)	4822 126 12539
C122	.022uF/25V (Z)	4822 126 12547	C176	.1uF/50V (Z)	4822 126 12539
			C177	100pF/50V (K)	4822 126 12532
			C178	100pF/50V (K)	4822 126 12532
			C179	100pF/50V (K)	4822 126 12532
			C180	100pF/50V (K)	4822 126 12532
			C181	100pF/50V (K)	4822 126 12532
			C182	100pF/50V (K)	4822 126 12532
			C183	100pF/50V (K)	4822 126 12532
			C184	100pF/50V (K)	4822 126 12532
			C185	100pF/50V (K)	4822 126 12532
			C186	100pF/50V (K)	4822 126 12532
			C187	100pF/50V (K)	4822 126 12532
			C188	100pF/50V (K)	4822 126 12532
			C189	100pF/50V (K)	4822 126 12532
			C190	100pF/50V (K)	4822 126 12532
			C191	100pF/50V (K)	4822 126 12532
			C192	100pF/50V (K)	4822 126 12532
			C193	100pF/50V (K)	4822 126 12532
			C194	100pF/50V (K)	4822 126 12532
			C195	100pF/50V (K)	4822 126 12532
			C196	100pF/50V (K)	4822 126 12532
			C197	100pF/50V (K)	4822 126 12532
			C198	100pF/50V (K)	4822 126 12532
			C199	100pF/50V (K)	4822 126 12532
			C200	100pF/50V (K)	4822 126 12532
			C201	100pF/50V (K)	4822 126 12532
			C202	100pF/50V (K)	4822 126 12532
			C203	100pF/50V (K)	4822 126 12532
			C204	100pF/50V (K)	4822 126 12532
			C205	1uF/50V (M) Electrolytic	4822 124 40242
			C206	1uF/50V (M) Electrolytic	4822 124 40242
			C207	100pF/50V (K)	4822 126 12532
			C208	100pF/50V (K)	4822 126 12532
			C209	22uF/16V (M) Electrolytic	5322 124 41431
			C210	22uF/16V (M) Electrolytic	5322 124 41431
			C211	.0047uF/50V (J) Mylar	4822 121 70262
			C212	.0047uF/50V (J) Mylar	4822 121 70262
			C213	.0015uF/50V (J) Mylar	5322 121 70042
			C214	.0015uF/50V (J) Mylar	5322 121 70042
			C215	4.7uF/50V (M) Electrolytic	4822 124 80431
			C216	4.7uF/50V (M) Electrolytic	4822 124 80431

Replacement Parts List (Continued)

Ref.	Description	Part No.	Ref.	Description	Part No.
CAPACITORS (Continued)			CAPACITORS (Continued)		
C217	100uF/25V (M) Electrolytic	4822 124 40207	C327	47uF/16V (M) Electrolytic	4822 124 40433
C218	100uF/25V (M) Electrolytic	4822 124 40207	C328	220uF/50V (M) Electrolytic	4822 124 80526
C219	.022uF/25V (Z)	4822 126 12547	▲ C401	4700pF/ AC400V (Z) Spark "L"	4822 124 22017
C220	.022uF/25V (Z)	4822 126 12547	C501	100uF/16V (M) Electrolytic	4822 124 80481
C221	100pF/50V (K)	4822 126 12532	C503	.1uF/50V (Z)	4822 126 12539
C222	100pF/50V (K)	4822 126 12532	C504	.1uF/50V (Z)	4822 126 12539
C223	100pF/50V (K)	4822 126 12532	C505	.039uF/50V (J) Mylar	4822 121 70261
C224	100pF/50V (K)	4822 126 12532	C506	.039uF/50V (J) Mylar	4822 121 70261
C225	100pF/50V (K)	4822 126 12532	C601	1uF/50V (M) Electrolytic	4822 124 40242
C226	100pF/50V (K)	4822 126 12532	C602	1uF/50V (M) Electrolytic	4822 124 40242
C227	100pF/50V (K)	4822 126 12532	C607	10uF/25V (M) Electrolytic	4822 124 42417
C228	100pF/50V (K)	4822 126 12532	C608	10uF/25V (M) Electrolytic	4822 124 42417
C229	100pF/50V (K)	4822 126 12532	C609	1uF/50V (M) Electrolytic	4822 124 40242
C230	100pF/50V (K)	4822 126 12532	C610	1uF/50V (M) Electrolytic	4822 124 40242
C231	10uF/25V (M) Electrolytic "NON"	4822 124 80434	C611	100pF/50V (K)	4822 126 12532
C232	.1uF/50V (Z)	4822 126 12539	C612	100pF/50V (K)	4822 126 12532
C233	4.7uF/50V (M) Electrolytic	4822 124 80431	C613	1uF/50V (M) Electrolytic	4822 124 40242
C234	2.2uF/50V (M) Electrolytic "NON"	4822 124 80436	C614	1uF/50V (M) Electrolytic	4822 124 40242
C235	2.2uF/50V (M) Electrolytic "NON"	4822 124 80436	C615	100pF/50V (K)	4822 126 12532
C236	820pF/50V (K)	4822 126 12538	C616	1uF/50V (M) Electrolytic	4822 124 40242
C237	820pF/50V (K)	4822 126 12538	C617	100pF/50V (K)	4822 126 12532
C238	47uF/25V (M) Electrolytic	4822 124 40433	C619	1uF/50V (M) Electrolytic	4822 124 40242
C239	47uF/25V (M) Electrolytic	4822 124 40433	C620	.068uF/50V (J) Mylar	5322 121 42662
C240	220pF/50V (K)	4822 126 12534	C621	47pF/50V (J)	4822 126 12544
C241	220pF/50V (K)	4822 126 12534	C622	.033uF/50V (J) Mylar	5322 121 42489
C242	47uF/50V (M) Electrolytic	4822 124 40246	C623	.033uF/50V (J) Mylar	5322 121 42489
C243	47uF/50V (M) Electrolytic	4822 124 40246	C624	.033uF/50V (J) Mylar	5322 121 42489
C244	100uF/63V (M) Electrolytic	4822 124 40255	C625	.1uF/50V (J) Mylar	4822 121 70259
C245	10uF/63V (M) Electrolytic	4822 124 40248	C626	1uF/50V (M) Electrolytic	4822 124 40242
C246	.1uF/50V (J) Mylar	4822 121 70259	C627	.01uF/50V (J) Mylar	4822 121 41857
C247	.1uF/50V (J) Mylar	4822 121 70259	C628	.0015uF/50V (J) Mylar	5322 121 70042
C248	.022uF/25V (Z)	4822 126 12547	C629	47pF/50V (J)	4822 126 12544
C249	.022uF/25V (Z)	4822 126 12547	C630	.22uF/50V (M) Electrolytic	4822 124 40746
C250	.022uF/25V (Z)	4822 126 12547	C631	.033uF/50V (J) Mylar	5322 121 42489
C251	1uF/50V (M) Electrolytic	4822 124 40242	C632	10uF/25V (M) Electrolytic	4822 124 42417
C252	.0022uF/50V (K) Ceramic	4822 126 13204	C633	10uF/25V (M) Electrolytic	4822 124 42417
C253	.0022uF/50V (K) Ceramic	4822 126 13204	C634	.1uF/50V (J) Mylar	4822 121 70259
C254	.0022uF/50V (K) Ceramic	4822 126 13204	C635	.1uF/50V (J) Mylar	4822 121 70259
C255	.0022uF/50V (K) Ceramic	4822 126 13204	C636	.1uF/50V (J) Mylar	4822 121 70259
C256	.0022uF/50V (K) Ceramic	4822 126 13204	C637	.022uF/50V (J) Mylar	4822 121 41856
C257	.0047uF/16V (K)	4822 125 12601	C638	.022uF/50V (J) Mylar	4822 121 41856
C260	.1uF/50V (Z)	4822 126 12539	C639	680pF/50V (K)	4822 126 12537
C301	.022uF/50V (Z) Ceramic	4822 126 13073	C640	.1uF/50V (J) Mylar	4822 121 70259
C302	6800uF/25V (M) Electrolytic	4822 124 80884	C641	.1uF/50V (J) Mylar	4822 121 43526
C303	.022uF/50V (Z) Ceramic	4822 126 13073	C642	.047uF/50V (J) Mylar	4822 121 43526
C304	.022uF/50V (Z) Ceramic	4822 126 13073	C643	.047uF/50V (J) Mylar	4822 121 43526
C305	.01uF/500V (Z) Ceramic F:5 mm	4822 124 80684	C644	680pF/50V (K)	4822 126 12537
C306	.01uF/500V (Z) Ceramic F:5 mm	4822 124 80684	C645	.1uF/50V (J) Mylar	4822 121 70259
C307	4700uF/63V (M) Electrolytic "TSW"	4822 124 80432	C646	.1uF/50V (J) Mylar	4822 121 70259
C308	4700uF/63V (M) Electrolytic "TSW"	4822 124 80432	C647	10uF/25V (M) Electrolytic "LN"	4822 124 80992
C311	1000uF/35V (M) Electrolytic	4822 124 80427	C648	10uF/25V (M) Electrolytic	4822 124 42417
C312	470uF/35V (M) Electrolytic	4822 124 41334	C649	10uF/25V (M) Electrolytic	4822 124 42417
C313	4.7uF/50V (M) Electrolytic	4822 124 80431	C650	10uF/25V (M) Electrolytic	4822 124 42417
C314	220uF/25V (M) Electrolytic	4822 124 41716	C651	22uF/16V (M) Electrolytic	5322 124 41431
C319	220uF/25V (M) Electrolytic	4822 124 41716	C652	.0047uF/50V (J) Mylar	4822 121 70262
C320	47uF/16V (M) Electrolytic	4822 124 40433	C653	10uF/25V (M) Electrolytic	4822 124 42417
C321	.022uF/25V (Z)	4822 126 12547	C654	10uF/25V (M) Electrolytic	4822 124 42417
C322	47uF/16V (M) Electrolytic	4822 124 40433	C655	10uF/25V (M) Electrolytic	4822 124 42417
C323	.022uF/25V (Z)	4822 126 12547	C656	.22uF/50V (M) Electrolytic	4822 124 40746
C324	4.7uF/50V (M) Electrolytic	4822 124 80431	C657	10uF/25V (M) Electrolytic	4822 124 42417
C325	.022uF/25V (Z)	4822 126 40244	C658	10uF/25V (M) Electrolytic	4822 124 42417
			C659	10uF/25V (M) Electrolytic	4822 124 42417
			C660	100uF/16V (M) Electrolytic	4822 124 80481
			C661	.0056uF/50V (J) Mylar	4822 121 42469

Replacement Parts List (Continued)

Ref.	Description	Part No.	Ref.	Description	Part No.			
CAPACITORS (Continued)								
C662	.220uF/10V (M) Electrolytic	4822 124 42418	C819	2.2uF/50V (M) Electrolytic	4822 124 40244			
C663	.047uF/50V (J) Mylar	4822 121 43526	C820	2.2uF/50V (M) Electrolytic	4822 124 40244			
C664	.680pF/50V (K)	4822 126 12537	C821	4.7uF/50V (M) Electrolytic	4822 124 80431			
C665	.0082uF/50V (J) Mylar	4822 121 43898	C822	4.7uF/50V (M) Electrolytic	4822 124 80431			
C666	.0039uF/50V (J) Mylar	5322 121 42927	C823	.022uF/25V (Z)	4822 126 12547			
C667	4.7uF/50V (M) Electrolytic	4822 124 80431	C824	.022uF/25V (Z)	4822 126 12547			
C668	.68uF/63V (J) Metalized polyester	5322 121 42498	C825	.047uF/50V (Z)	4822 126 12541			
C669	.22uF/63V (J) Metalized polyester	4822 121 70328	C901	4.7uF/50V (M) Electrolytic	4822 124 80431			
C670	.22uF/63V (J) Metalized polyester	4822 121 70328	C902	.001uF/50V (K)	4822 126 12533			
C671	.22uF/63V (J) Metalized polyester	4822 121 70328	C903	100uF/16V (M) Electrolytic	4822 124 80814			
C672	4.7uF/50V (M) Electrolytic	4822 124 80431	C904	330uF/10V (M) Electrolytic	4822 124 40849			
C673	4.7uF/50V (M) Electrolytic	4822 124 80431	C905	330uF/25V (M) Electrolytic	4822 124 20705			
C674	.22uF/63V (J) Metalized polyester	4822 121 70328	C906	220uF/16V (M) Electrolytic	4822 124 20693			
C675	.1uF/50V (J) Mylar	4822 121 70259	C907	.15uF/50V (J) Mylar	4822 121 41854			
C676	.22uF/16V (M) Electrolytic	5322 124 41431	C908	.15uF/50V (J) Mylar	4822 121 41854			
C677	.001uF/50V (K)	4822 126 12533	C909	.01uF/50V (J) Mylar	4822 121 41857			
C678	10uF/25V (M) Electrolytic	4822 124 42417	C910	220uF/16V (M) Electrolytic	4822 124 20693			
C679	.001uF/50V (K)	4822 126 12533	C911	100uF/16V (M) Electrolytic	4822 124 80481			
C680	1uF/50V (M) Electrolytic	4822 124 40242	C912	.1uF/50V (J) Mylar	4822 121 70259			
C681	330pF/50V (K)	4822 126 13071	C915	4.7uF/50V (M) Electrolytic	4822 124 80431			
C682	.0047uF/50V (J) Mylar	4822 121 70262	C916	.001uF/50V (K)	4822 126 12533			
C683	.0047uF/50V (J) Mylar	4822 121 70262	C917	100uF/16V (M) Electrolytic	4822 124 80481			
C684	.1uF/50V (J) Mylar	4822 121 70259	C918	330uF/10V (M) Electrolytic	4822 124 40849			
C685	.47uF/63V (J) Metalized polyester	4822 121 51252	C919	330uF/25V (M) Electrolytic	4822 124 20705			
C686	.47uF/63V (J) Metalized polyester	4822 121 51252	C920	220uF/16V (M) Electrolytic	4822 124 20693			
C687	1uF/50V (M) Electrolytic	4822 124 40242	C921	.15uF/50V (J) Mylar	4822 121 41854			
C688	.1uF/50V (J) Mylar	4822 121 70259	C922	.15uF/50V (J) Mylar	4822 121 41854			
C689	.470pF/50V (K)	4822 126 12535	C923	.01uF/50V (J) Mylar	4822 121 41857			
C690	.0068uF/50V (J) Mylar	4822 121 70263	C924	220uF/16V (M) Electrolytic	4822 124 20693			
C691	.0068uF/50V (J) Mylar	4822 121 70263	C925	100uF/16V (M) Electrolytic	4822 124 80481			
C692	1uF/50V (M) Electrolytic	4822 124 40242	C926	.1uF/50V (J) Mylar	4822 121 70259			
C693	.01uF/16V (K)	4822 126 12545	RESISTORS					
C694	100uF/16V (M) Electrolytic	4822 124 80481	Note: All resistors are carbon film, ±5% and 1/6 watt, unless otherwise noted.					
C695	10uF/25V (M) Electrolytic	4822 124 42417	R001	470 ohm	4822 050 14701			
C701	1uF/50V (M) Electrolytic	4822 124 40242	R002	2.2K ohm, 1/4W	4822 050 22202			
C702	1uF/50V (M) Electrolytic	4822 124 40242	R004	10K ohm, 1/4W	4822 050 21003			
C703	4.7uF/50V (M) Electrolytic	4822 124 80431	R005	10K ohm	4822 050 11003			
C704	4.7uF/50V (M) Electrolytic	4822 124 80431	R006	22K ohm	4822 050 12203			
C706	.047uF/50V (Z)	4822 126 12541	R007	22K ohm	4822 050 12203			
C707	1uF/50V (M) Electrolytic	4822 124 40242	R008	10K ohm	4822 050 11003			
C710	4.7uF/50V (M) Electrolytic	4822 124 80431	R009	10K ohm	4822 050 11003			
C711	4.7uF/50V (M) Electrolytic	4822 124 80431	R010	10K ohm	4822 050 11003			
C801	220pF/50V (K)	4822 126 12534	R011	10K ohm	4822 050 11003			
C802	220pF/50V (K)	4822 126 12534	R012	10K ohm	4822 050 11003			
C803	4.7uF/50V (M) Electrolytic	4822 124 80431	R013	10K ohm	4822 050 11003			
C804	4.7uF/50V (M) Electrolytic	4822 124 80431	R014	10K ohm, 1/4W	4822 050 21003			
C805	100pF/50V (K)	4822 126 12532	R015	10K ohm	4822 050 11003			
C806	100pF/50V (K)	4822 126 12532	R016	10K ohm	4822 050 11003			
C807	22pF/50V (J)	4822 126 12542	R017	10K ohm	4822 050 11003			
C808	22pF/50V (J)	4822 126 12542	R018	10K ohm	4822 050 11003			
C809	10uF/25V (M) Electrolytic	4822 124 42417	R019	100K ohm	4822 050 11004			
C810	10uF/25V (M) Electrolytic	4822 124 42417	R020	47K ohm	4822 050 14703			
C811	.0068uF/50V (J) Mylar	4822 121 70263	R021	18K ohm	4822 050 11803			
C812	.0068uF/50V (J) Mylar	4822 121 70263	R022	47K ohm	4822 050 14703			
C813	.039uF/50V (J) Mylar	4822 121 70261	R023	47K ohm	4822 050 14703			
C814	.039uF/50V (J) Mylar	4822 121 70261	R024	47K ohm	4822 050 14703			
C815	.047uF/50V (J) Mylar	4822 121 43526	R025	47K ohm	4822 050 14703			
C816	.047uF/50V (J) Mylar	4822 121 43526	R026	47K ohm	4822 050 14703			
C817	.33uF/50V (M) Electrolytic	4822 124 40748	R027	47K ohm	4822 050 14703			
C818	.33uF/50V (M) Electrolytic	4822 124 40748	R028	47K ohm	4822 050 11803			
			R029	18K ohm	4822 050 11803			
			R030	100 ohm	4822 050 11001			

Replacement Parts List (Continued)

Ref.	Description	Part No.	Ref.	Description	Part No.
RESISTORS (Continued)			RESISTORS (Continued)		
R031	150 ohm	4822 050 11501	R203	560K ohm	4822 050 15604
R032	10K ohm	4822 050 11003	R204	560K ohm	4822 050 15604
R033	100K ohm	4822 050 11004	R205	56K ohm	4822 050 15603
R034	1M ohm	4822 050 11005	R206	56K ohm	4822 050 15603
R035	100K ohm	4822 050 11004	R207	1K ohm	4822 050 11002
R036	100K ohm	4822 050 11004	R208	1K ohm	4822 050 11002
R037	1K ohm	4822 050 11002	R209	100K ohm	4822 050 11004
R038	10K ohm	4822 050 11003	R210	100K ohm	4822 050 11004
R039	10K ohm	4822 050 11003	R211	510K ohm	4822 050 15104
R040	10K ohm	4822 050 11003	R212	510K ohm	4822 050 15104
R109	22 ohm	4822 050 12209	R213	47K ohm	4822 050 14703
R110	270K ohm	4822 050 12704	R214	47K ohm	4822 050 14703
R112	680 ohm	4822 050 16801	R215	1K ohm	4822 050 11002
R114	1K ohm	4822 050 11002	R216	1K ohm	4822 050 11002
R115	2.2K ohm	4822 050 12202	R217	100K ohm	4822 050 11004
R116	100K ohm	4822 050 11004	R218	100K ohm	4822 050 11004
R117	100K ohm	4822 050 11004	R219	1K ohm, 1/4W	4822 050 21002
R118	330 ohm	4822 050 13301	R220	1K ohm, 1/4W	4822 050 21002
R119	470 ohm, 1/4W	4822 116 52155	R221	100 ohm, 1/2W Metal (Flame-proof)	4822 117 10189
R120	2.2K ohm	4822 050 12202	R222	100 ohm, 1/2W Metal (Flame-proof)	4822 117 10189
R121	47K ohm	4822 050 14703	R223	220 ohm	4822 050 12201
R122	3.3K ohm, 1/4W	4822 050 23302	R224	220 ohm	4822 050 12201
R123	22K ohm	4822 050 12203	R225	560 ohm	4822 050 15601
R124	220K ohm	4822 050 12204	R226	560 ohm	4822 050 15601
R125	5.6K ohm	4822 050 15602	R227	220 ohm	4822 050 12201
R126	3.3K ohm	4822 050 13302	R228	220 ohm	4822 050 12201
R127	10K ohm	4822 050 11003	R229	560 ohm	4822 050 12201
R128	150 ohm, 1/2W Metal (Flame-proof)	4822 117 11199	R230	560 ohm	4822 050 15601
R129	3.9K ohm	4822 050 13902	R231	220 ohm	4822 050 12201
R130	47K ohm	4822 050 14703	R232	220 ohm	4822 050 12201
R131	47K ohm	4822 050 14703	R233	1K ohm	4822 050 11002
R132	47K ohm	4822 050 14703	R234	100K ohm	4822 050 11004
R133	47K ohm	4822 050 14703	R235	100K ohm	4822 050 11004
R134	39K ohm	4822 050 13903	R236	1K ohm	4822 050 11002
R135	39K ohm	4822 050 13903	R237	1K ohm, 1/4W	4822 050 21002
R136	3.3K ohm	4822 050 13302	R238	100K ohm	4822 050 11004
R137	3.3K ohm	4822 050 13302	R239	100K ohm	4822 050 11004
R138	5.6K ohm	4822 050 15602	R240	2.2K ohm	4822 050 12202
R139	5.6K ohm	4822 050 15602	R241	2.2K ohm	4822 050 12202
R140	3.3K ohm	4822 050 13302	R242	56K ohm, 1/4W	4822 050 25603
R141	3.3K ohm	4822 050 13302	R243	56K ohm, 1/4W	4822 050 25603
R142	100 ohm, 1/2W Metal (Flame-proof)	4822 117 10189	R244	560 ohm, 1/4W	4822 050 25601
R143	100 ohm, 1/2W Metal (Flame-proof)	4822 117 10189	R245	560 ohm, 1/4W	4822 050 25601
R144	2.2K ohm, 1/4W	4822 050 22202	R246	56K ohm, 1/4W	4822 050 25603
R145	10K ohm	4822 050 11003	R247	56K ohm, 1/4W	4822 050 25603
R146	3.3K ohm	4822 050 13302	R248	3.3K ohm, 1/2W Metal (Flame-proof)	4822 117 10192
R147	6.8K ohm	4822 050 16802	R249	3.3K ohm, 1/2W Metal (Flame-proof)	4822 117 10192
R148	1K ohm	4822 050 11002	R250	3.3K ohm, 1/2W Metal (Flame-proof)	4822 117 10192
R149	560 ohm	4822 050 15601	R251	3.3K ohm, 1/2W Metal (Flame-proof)	4822 117 10192
R150	47K ohm	4822 050 14703	R252	100 ohm, 1/4W	5322 116 55549
R151	47K ohm, 1/4W	4822 050 24703	R253	1K ohm, 1/2W Metal (Flame-proof)	4822 117 10191
R152	47K ohm, 1/4W	4822 050 24703	R254	100 ohm, 1/4W	4822 117 10191
R153	47K ohm, 1/4W	4822 050 24703	R255	1K ohm, 1/2W Metal (Flame-proof)	4822 117 10191
R154	47K ohm, 1/4W	4822 050 24703	R256	.1 ohm, 3W Cement	4822 113 90241
R155	3.3K ohm, 1/4W	4822 050 23302	R257	.1 ohm, 3W Cement	4822 113 90241
R156	47K ohm	4822 050 14703	R258	2.2K ohm, 1/4W	4822 050 22202
R157	47K ohm, 1/4W	4822 050 24703	R259	2.2K ohm, 1/4W	4822 050 22202
R158	47 ohm, 1/4W	4822 050 24709	R260	4.7 ohm, 1/2W Metal (Flame-proof)	4822 117 10193
R159	100 ohm, 1/2W Metal (Flame-proof)	4822 117 10189			
R161	100 ohm	4822 050 11001			
R162	1K ohm	4822 050 11002			
R201	150 ohm	4822 050 11501			
R202	150 ohm	4822 050 11501			

Replacement Parts List (Continued)

Ref.	Description	Part No.	Ref.	Description	Part No.
RESISTORS (Continued)			RESISTORS (Continued)		
R261	4.7 ohm, 1/2W Metal (Flame-proof)	4822 117 10193	R633	22K ohm	4822 050 12203
R262	10 ohm, 1/2W Metal (Flame-proof)	4822 117 10188	R634	10K ohm	4822 050 11003
R263	10 ohm, 1/2W Metal (Flame-proof)	4822 117 10188	R635	10K ohm	4822 050 11003
R264	15K ohm, 1/4W	4822 050 21503	R636	15K ohm	4822 050 11503
R265	15K ohm, 1/4W	4822 050 21503	R637	3.3K ohm	4822 050 13302
R266	12K ohm, 1/4W	4822 050 21203	R638	6.8K ohm	4822 050 16802
R267	12K ohm, 1/4W	4822 050 21203	R639	3.3K ohm	4822 050 13302
R268	2.2K ohm, 1/4W	4822 050 22202	R640	6.8K ohm	4822 050 16802
R269	47K ohm, 1/4W	4822 050 24703	R641	1.5K ohm	4822 050 11502
R270	100K ohm	4822 050 11004	R642	22K ohm	4822 050 12203
R271	820 ohm, 1W Metal (Flame-proof)	4822 117 10198	R643	22K ohm	4822 050 12203
R272	4.7K ohm	4822 050 14702	R644	22K ohm	4822 050 12202
R273	330 ohm, 2W Metal (Flame-proof)	4822 117 10122	R645	100K ohm	4822 050 11004
R274	330 ohm, 2W Metal (Flame-proof)	4822 117 10122	R646	2.2K ohm	4822 050 14702
R301	100 ohm, 1/2W Metal (Flame-proof)	4822 117 10189	R647	4.7K ohm	4822 050 11004
R303	22K ohm, 1/4W	4822 116 52257	R648	100K ohm	4822 050 11004
R304	56K ohm	4822 050 15603	R649	100K ohm	4822 050 11004
R305	10K ohm	4822 050 11003	R650	100 ohm, 1/2W Metal (Flame-proof)	4822 117 10189
R308	100 ohm	4822 050 11001	R651	15K ohm	4822 050 11503
R309	100 ohm	4822 050 11001	R652	7.5K ohm	4822 116 52299
R310	2.2K ohm	4822 050 12202	R653	47K ohm	4822 050 14703
R311	10 ohm, 1/2W Metal (Flame-proof)	4822 117 10188	R654	7.5K ohm	4822 116 52299
R501	33 ohm, 1/2W Metal (Flame-proof)	4822 117 11201	R655	47K ohm	4822 050 14703
R502	150 ohm	4822 050 11501	R656	15K ohm	4822 050 11503
R503	6.8K ohm	4822 050 16802	R657	10M ohm	4822 053 20106
R504	6.8K ohm	4822 050 16802	R658	22K ohm	4822 050 12203
R505	6.8K ohm	4822 050 16802	R659	22K ohm	4822 050 12203
R506	6.8K ohm	4822 050 16802	R660	100K ohm	4822 050 11004
R601	4.7K ohm	4822 050 14702	R661	100K ohm	4822 050 11004
R602	4.7K ohm	4822 050 14702	R662	100K ohm	4822 050 11004
R603	33K ohm	4822 050 13303	R663	100K ohm	4822 050 11004
R604	33K ohm	4822 050 13303	R664	10K ohm	4822 050 11003
R607	10K ohm	4822 050 11003	R665	8.2K ohm	4822 050 18202
R608	10K ohm	4822 050 11003	R666	5.6K ohm	4822 050 15602
R609	100K ohm	4822 050 11004	R667	6.8K ohm	4822 050 16802
R610	100K ohm	4822 050 11004	R668	330K ohm	4822 116 52272
R611	10K ohm	4822 050 11003	R669	10K ohm	4822 050 11003
R612	10K ohm	4822 050 11003	R670	10K ohm	4822 050 11003
R613	10K ohm	4822 050 11003	R671	10K ohm	4822 050 11003
R614	100K ohm	4822 050 11004	R672	1K ohm	4822 050 11002
R615	10K ohm	4822 050 11003	R673	10K ohm	4822 050 11003
R616	3.3K ohm	4822 050 13302	R674	10K ohm	4822 050 11003
R617	3.3K ohm	4822 050 13302	R675	10K ohm	4822 050 11003
R618	10K ohm	4822 050 11003	R676	10K ohm	4822 050 11003
R619	100K ohm	4822 050 11004	R677	10 ohm	4822 050 11009
R620	10K ohm	4822 050 11003	R678	1M ohm	4822 050 11005
R621	3.3K ohm	4822 050 13302	R679	100K ohm	4822 050 11004
R622	3.3K ohm	4822 050 13302	R680	47K ohm	4822 050 14703
R623	10K ohm	4822 050 11003	R681	5.6K ohm	4822 050 15602
R624	100K ohm	4822 050 11004	R682	8.2K ohm	4822 050 18202
R625	15K ohm	4822 050 11503	R683	8.2K ohm	4822 050 18202
R626	15K ohm	4822 050 11503	R684	5.6K ohm	4822 050 15602
R627	33K ohm	4822 050 13303	R685	15K ohm	4822 050 11503
R628	33K ohm	4822 050 13303	R686	8.2K ohm	4822 050 18202
R629	100K ohm	4822 050 11004	R687	8.2K ohm	4822 050 18202
R630	22K ohm	4822 050 12203	R688	100K ohm	4822 050 11004
R631	22K ohm	4822 050 12203	R689	10 ohm, 1/2W Metal (Flame-proof)	4822 117 10188
R632	22K ohm	4822 050 12203	R701	220K ohm	4822 050 12204
			R702	1K ohm	4822 050 11002
			R703	220K ohm	4822 050 12204
			R704	1K ohm	4822 050 11002
			R705	220K ohm	4822 050 12204
			R706	10K ohm	4822 050 11003
			R707	3.3K ohm	4822 050 13302
			R708	220K ohm	4822 050 12204

Replacement Parts List (Continued)

Ref.	Description	Part No.	Ref.	Description	Part No.
RESISTORS (Continued)					
R709	10K ohm	4822 050 11003	IC001	TMP47C1670AN-HA01	4822 209 33487
R710	220K ohm	4822 050 12204	IC102	LA1851N	4822 209 31001
R711	3.3K ohm	4822 050 13302	IC103	LA7218	4822 209 30178
R712	10K ohm	4822 050 11003	IC104	NJM4558DD	4822 209 83631
R713	10K ohm	4822 050 11003	IC201	NJM4558DD	4822 209 83631
R801	1K ohm	4822 050 11002	IC202	LA7821	4822 209 72748
R802	1K ohm	4822 050 11002	IC203	STK4192-2	4822 209 70441
R803	220K ohm	4822 050 12204	IC301	MC7805CT	4822 209 80891
R804	220K ohm	4822 050 12204	IC302	MC7815CT	5322 209 71759
R805	560K ohm	4822 050 15604	IC303	MC7915A	5322 209 86361
R806	560K ohm	4822 050 15604	IC501	LB1641	4822 209 30193
R807	560K ohm	4822 050 15604	IC601	NJM4558DD	4822 209 83631
R808	560K ohm	4822 050 15604	IC602	NJM4558DD	4822 209 83631
R809	12K ohm	4822 050 11203	IC603	NJM4558DD	4822 209 83631
R810	12K ohm	4822 050 11203	IC604	NJM4558DD	4822 209 83631
R811	680 ohm	4822 050 16801	IC605	NJM4558DD	4822 209 83631
R812	680 ohm	4822 050 16801	IC606	LC7821	4822 209 72748
R813	270 ohm	4822 116 52217	IC607	NJM-2177L	4822 209 32693
R814	270 ohm	4822 116 52217	IC608	UPD6345C	4822 209 31574
R815	9.1K ohm	4822 050 19102	IC609	M50198P	4822 209 31573
R816	9.1K ohm	4822 050 19102	IC610	NJM7805A	4822 209 83824
R817	22K ohm	4822 050 12203	IC701	TC9213P	4822 209 31575
R818	22K ohm	4822 050 12203	IC702	NJM4558DD	4822 209 83631
R819	1.2K ohm	4822 050 11202	IC801	NJM4558L	4822 209 30182
R820	1.2K ohm	4822 050 11202	IC901	LA4471	4822 209 33486
R821	10K ohm	4822 050 11003	IC902	LA4471	4822 209 33486
R822	10K ohm	4822 050 11003			
R823	3.3K ohm	4822 050 13302	Q001	DTA114ES	4822 130 60766
R824	3.3K ohm	4822 050 13302	Q002	DTA114ES	4822 130 60766
R825	220 ohm	4822 050 12201	Q003	2SC945P,Q	4822 130 41198
R826	220 ohm	4822 050 12201	Q004	2SA733P,Q	4822 130 61867
R827	10K ohm, 1/4W	4822 050 21003	Q005	2SA733P,Q	4822 130 61867
R828	10K ohm	4822 050 11003	Q006	2SC945P,Q	4822 130 41198
R829	10K ohm, 1/4W	4822 050 21003	Q007	2SA733P,Q	4822 130 61867
R830	10K ohm	4822 050 11003	Q008	2SA733P,Q	4822 130 61867
R831	47K ohm	4822 050 14703	Q009	2SA733P,Q	4822 130 61867
R832	47K ohm	4822 050 14703	Q103	2SC1675L	4822 130 41595
R833	1.8K ohm	4822 051 51802	Q104	2SK161GR, FET	4822 130 61357
R834	1.8K ohm	4822 051 51802	Q105	DTC114ES	4822 130 60588
R835	1M ohm	4822 050 11005	Q106	2SA733P,Q	4822 130 61867
R836	470K ohm	4822 050 14704	Q107	DTA114ES	4822 130 60766
R837	1M ohm	4822 050 11005	Q108	2SC945P,Q	4822 130 41198
R838	470K ohm	4822 050 14704	Q109	2SC945P,Q	4822 130 41198
R901	100K ohm	4822 050 11004	Q110	2SC1675L	4822 130 41595
R902	22K ohm	4822 050 12203	Q201	2SC1841E	4822 130 42388
R903	2.2 ohm, 1/4W	4822 050 22208	Q202	2SC1841E	4822 130 42388
R904	2.2 ohm, 1/4W	4822 050 22208	Q203	2SC1841E	4822 130 42388
R905	2.2 ohm, 1/4W	4822 050 22208	Q204	2SC988E	4822 130 42386
R906	100K ohm	4822 050 11004	Q301	2SC945P,Q	4822 130 41198
R907	22K ohm	4822 050 12203	Q302	2SA965Y	4822 130 63221
R908	2.2 ohm, 1/4W	4822 050 22208	Q601	DTA114ES	4822 130 60766
R909	2.2 ohm, 1/4W	4822 050 22208	Q602	DTA114ES	4822 130 60766
R910	2.2 ohm, 1/4W	4822 050 22208	Q701	2SC2878A	4822 130 62904
R913	5.6K ohm	4822 050 15602	Q702	2SC2878A	4822 130 62904
R914	5.6K ohm	4822 050 15602	Q801	2SC2878A	4822 130 62904
TP1	0 ohm, 1/4W	4822 117 10797	Q802	2SC2878A	4822 130 62904
TP2	0 ohm, 1/4W	4822 117 10797	Q803	2SC2878A	4822 130 62904
TP3	0 ohm, 1/4W	4822 117 10797	Q804	2SC2878A	4822 130 62904
▲ FR253	100 ohm, 1/2W Fuse	4822 117 10197	X101	Crystal 7.2MHz	4822 242 71875
▲ FR301	1 ohm, 1/2W Fuse	4822 111 91493	D001	1SS176	4822 130 33861
▲ FR302	1 ohm, 1/2W Fuse	4822 111 91493	D002	1SS176	4822 130 33861
▲ FR303	1 ohm, 1/2W Fuse	4822 111 91493	D003	1SS176	4822 130 33861
▲ FR304	1 ohm, 1/2W Fuse	4822 111 91493	D004	1N4148	4822 130 30621

Replacement Parts List (Continued)

Ref.	Description	Part No.	Ref.	Description	Part No.
SEMICONDUCTORS (Continued)					
D005	1N4148	4822 130 30621	JK902	4P speaker terminal CJ-9020-02-080	4822 290 81541
D006	1N4148	4822 130 30621			
D007	1N4148	4822 130 30621			
D008	1N4148	4822 130 30621			
D009	1N4148	4822 130 30621			
D010	1N4148	4822 130 30621			
D011	LTL-4222N (RED) LED	4822 130 83205			
D012	1N4148	4822 130 30621	S001	Tact switch SKHVB3420-CP (Memory preset station)	4822 276 13372
D013	1N4148	4822 130 30621	S002	Tact switch SKHVB3420-CP (Memory preset station)	4822 276 13372
D014	ISS176	4822 130 33861	S003	Tact switch SKHVB3420-CP (Memory preset station)	4822 276 13372
D015	ISS176	4822 130 33861	S004	Tact switch SKHVB3420-CP (Memory preset station)	4822 276 13372
D104	KV1236Z1 (WHT)	4822 130 81197	S005	Tact switch SKHVB3420-CP (Memory preset station)	4822 276 13372
D106	1N4148	4822 130 30621	S006	Tact switch SKHVB3420-CP (Memory preset station)	4822 276 13372
D107	ISS176	4822 130 33861	S007	Tact switch SKHVB3420-CP (Memory preset station)	4822 276 13372
D108	ISS176	4822 130 33861	S008	Tact switch SKHVB3420-CP (Memory preset station)	4822 276 13372
D201	ISS176	4822 130 33861	S009	Tact switch SKHVB3420-CP (Memory preset station)	4822 276 13372
D202	ISS176	4822 130 33861	S010	Tact switch SKHVB3420-CP (Memory preset station)	4822 276 13372
D203	MTZ5.1C, Zener	4822 130 82667	S011	Tact switch SKHVC3430-CP (Sleep)	4822 276 13373
D204	1N4148	4822 130 30621	S012	Tact switch SKHVB3420-CP (Tuning -)	4822 276 13372
D301 ▲	GBU4D	4822 130 83302	S013	Tact switch SKHVB3420-CP (Tuning +)	4822 276 13372
D302 ▲	W02M	4822 130 81634	S014	Tact switch SKHVC3430-CP (Cursor tuner)	4822 276 13373
D303 ▲	GBU4D	4822 130 83302	S015	Tact switch SKHVC3430-CP (Cursor Station name display)	4822 276 13373
D304	MTZ6.2C, Zener	4822 130 83142	S016	Tact switch SKHVC3430-CP (Cursor surround)	4822 276 13373
D305	MTZ39C, Zener	4822 130 83696	S017	Tact switch SKHVC3430-CP (Cursor center)	4822 276 13373
D306	ISS176	4822 130 33861	S018	Tact switch SKHVC3430-CP (Memory)	4822 276 13373
D307	ISS176	4822 130 33861	S019	Tact switch SKHVB3420-CP (Preset down)	4822 276 13372
D308	ISS176	4822 130 33861	S020	Tact switch SKHVB3420-CP (Preset up)	4822 276 13372
D501	MTZ4.7C, Zener	4822 130 82637	S021	Tact switch SKHVC3430-CP (Surround mode)	4822 276 13373
D502	LTL-4222N (RED) LED	4822 130 83205	S022	Tact switch SKHVC3430-CP (Frequency director)	4822 276 13373
D601	ISS176	4822 130 33861	S023	Tact switch SKHVC3430-CP (FM/AM)	4822 276 13373
DP001	Display 12-BT-69GK	4822 130 91362	S024	Tact switch SKHVC3430-CP (FM mode)	4822 276 13373
VARIABLE RESISTORS					
SFR101	Semi-fised resistor 20KX (FM stop adjustment)	4822 101 90234	S025	Tact switch SKHVC3430-CP (Display)	4822 276 13373
SFR102	Semi-fised resistor 10KX (AM stop adjustment)	4822 101 90232	S026	Rotary switch MSB1.12P-20L "C" (Source selector)	4822 273 20373
SFR103	Semi-fised resistor 2KX (Separation adjustment)	4822 101 90233	S027	Tact switch SKHVB3420-CP (Audio mute)	4822 276 13372
VR501	Motor variable resistor 50KBx4 (Volume control)	4822 101 90251	S201	Push switch SPUL19C611-CP (Speaker A)	4822 276 13363
VR801	Variable resistor 100KBx2 (Bass control)	4822 101 21215	S202	Push switch SPUL19C611-CP (Speaker B)	4822 276 13363
VR802	Variable resistor 100KBx2 (Treble control)	4822 101 21215	S203	Slide switch SSSF142SB1-CP (Input selector)	4822 277 21742
VR803	Variable resistor 100KW (Balance control)	4822 101 21214			
JACKS					
HP201	Headphone jack JY-6317-01-030G3	4822 267 31625			
JK101	2P antenna terminal CJ-9020-02-040	4822 290 81552			
JK201	4P RCA jack RJ1018-010	4822 267 41082			
JK202	4P RCA jack RJ1018-010	4822 267 41082			
JK203	4P RCA jack RJ1018-010	4822 267 41082			
JK204	2P RCA jack RJ1020-050 (Y)	4822 267 41083			
JK205	2P RCA jack RJ1020-110 (G)	4822 267 41084			
JK206	1P RCA jack 0501015-C (O)	4822 267 31616			
JK207	8P speaker terminal CJ-9019-02-080	4822 290 81562			
JK901	2P speaker terminal CJ-9021-060	4822 290 81659			

Replacement Parts List (Continued)

Ref.	Description	Part No.	Ref.	Description	Part No.
SWITCHES (Continued)			MISCELLANEOUS (Continued)		
S401	Power switch SDDLD1107U-CP (Power)	4822 276 13374	E18	3P FTW top base	-----
S501	Push switch SPUL12A207-CP (Loudness)	4822 276 13375	E19	Wire holder 3P20	-----
MISCELLANEOUS			E20	XH 2P top base	-----
FE01	FM front end FE417-C02	4822 426 51787	E21	EH 2P top base	-----
RM001	Remote preamp LTM-9052A-L	4822 218 10499	E22	AC cord UL 6.5F BLK SPF2	4822 321 10926
RY201	Relay VB-24MBU	4822 280 80764	E23	Cord stopper 2271	4822 325 80504
F301	Fuse BST5AL250V	4822 252 51176	E24	Loop antenna coil	4822 303 40059
F401	Fuse BST2L250V	4822 253 50162	E25	Battery UM-4 (2 used)	-----
F402	Fuse BST1AL250V	4822 253 50161	E26	FM indoor antenna	4822 303 50073
E1	7P FTW top base	-----	E27	RCA cable BLK-1M	4822 321 61875
E2	Wire holder 7P20	-----	E28	Insulator W/O hole (20x25)	-----
E3	XH 8P top base	-----	E30	AC outlet CCT1302-0202	4822 267 20437
E4	8P side base 08JQ-ST	-----	E31	Square terminal pin on PCB (2 used)	-----
E5	MT 5P top base	-----	E32	Fuse holder PFC5000-0202T (6 used)	-----
E6	6P FTW top base	-----	E33	9P pin header 5016P09VG00	-----
E7	Wire holder 6P20	-----	E34	Headphone jack PCB (Blank)	-----
E8	PH 2P top base	-----	E35	VR LED PCB (Blank)	-----
E9	Wire holder 2P20	-----	E36	Main PCB (Blank)	-----
E10	XH 3P top base	-----	E37	Front PCB (Blank)	-----
E11	MT 6P top base	-----	E38	Mute switch PCB (Blank)	-----
E12	Long square terminal pin on PCB (2 used)	-----	E39	Surround PCB (Blank)	-----
E13	2P FTW top base	-----	E40	Surround amplifier PCB (Blank)	-----
E14	MT 3P top base	-----	E41	Surround speaker jack PCB (Blank)	-----
E16	MT 9P top base	-----	E42	Power switch PCB (Blank)	-----
			E43	Motor variable resistor PCB (Blank)	-----
			E44	75 ohm antenna socket	4822 265 20621

Note: ----- Indicates a not normally stocked item.