

SERVICE MANUAL

NAD

C 740

**STEREO
RECEIVER**

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RECEIVER**

SERVICE SAFETY PRECAUTIONS

1. Replacing the fuses

CAUTION: FOR CONTINUED PROTECTION AGAINST THE RISK OF FIRE
REPLACE ONLY WITH SAME TYPE OF FUSE.

Reference No.	Part No.	Description
F901*AH	252161	3A-125V UL/T-237 Time lag
F901*B1, B, C	252074	T2A L/250V SE-EAK Time lag

NOTE:

<*AH> : U. S. A., CANADIAN MODEL ONLY. <*B1> : AUSTRALIAN MODEL ONLY.
<*C> : EUROPEAN MODEL ONLY. <*B> : U.K. MODEL ONLY.

2. SAFETY CHECK OUT

(Only U.S.A. model)

Before returning the product to the customer, make leakage current or resistance measurements to determine that exposed parts are acceptably insulated from the supply circuit.

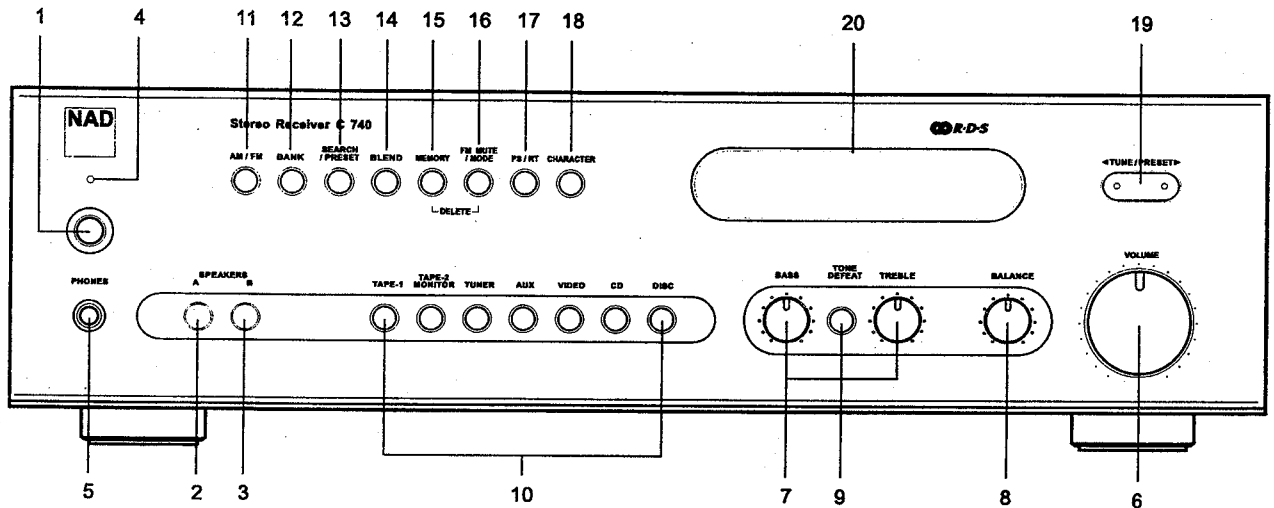
Parts marked with the symbol  are critical with regard to the risk of fire and electric shock. Replace only with parts recommended by the manufacturer.

CONTENTS

DESCRIPTION	PAGE
SERVICE SAFETY PRECAUTIONS	2
FRONT PANEL/REAR PANEL VIEW	3
CONNECTION OF INSTRUMENT	4
ALIGNMENT PROCEDURE	5
SPECIFICATIONS	6
PCB LAYOUT	7-8
SCHEMATIC DIAGRAM	9-11
MICROPROCESSOR CONNECTION DIAGRAM & TERMINAL DESCRIPTION	12
IC BLOCK DIAGRAM	13-15
RF SECTION BLOCK DIAGRAM	16
AF SECTION BLOCK DIAGRAM	17
EXPLODED VIEW	18
EXPLODED VIEW PARTS LIST	19-20
WIRING DIAGRAM	21
ELECTRICAL PARTS LIST	22-25
PACKING DIAGRAM/PARTS LIST	26
RUNNING CHANGE INFORMATION	27

WARNING: TO PREVENT FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

FRONT PANEL CONTROLS



- | | | | |
|----------------------|---------------------------|---|-------------------|
| 1. POWER ON/OFF | 7. BASS & TREBLE CONTROLS | 13. SEARCH/PRESET | 18. CHARACTER |
| 2. SPEAKERS A | 8. BALANCE | 14. BLEND | 19. TUNE/PRESET |
| 3. SPEAKERS B | 9. TONE DEFEAT | 15. MEMORY | 20. DISPLAY PANEL |
| 4. STANDBY INDICATOR | 10. INPUT SELECTORS | 16. FM MUTE/MODE | |
| 5. HEADPHONE SOCKET | 11. AM/FM | 17. PS/RT (RDS Version) or
DISPLAY (non-RDS version) | |
| 6. VOLUME | 12. BANK | | |

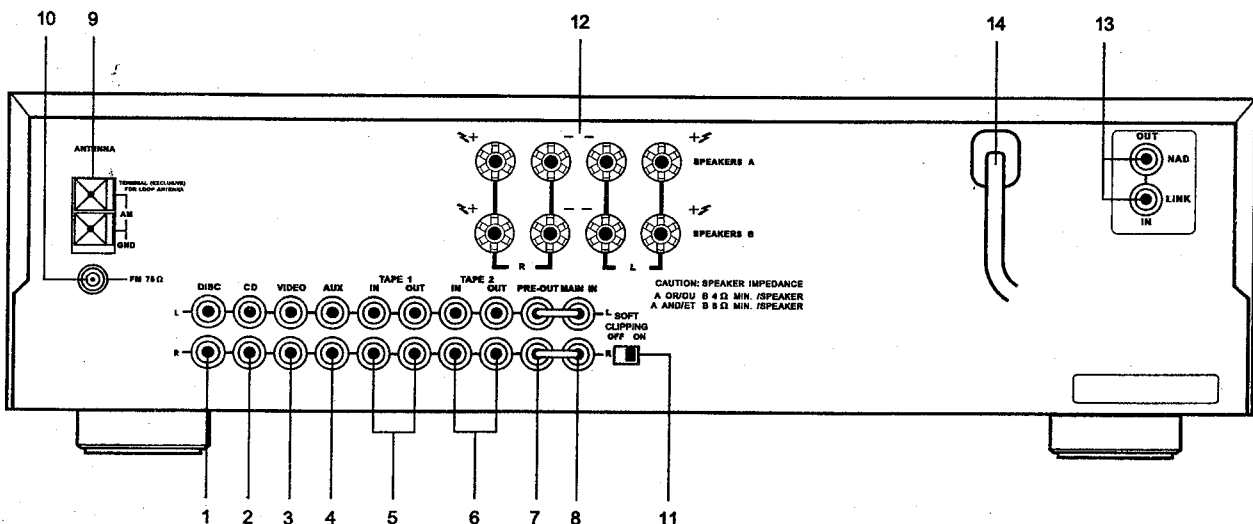


The lightning flash with arrowhead, within an equilateral triangle is intended to alert the user of the presence of uninsulated "dangerous voltage" within the product's enclosure; that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation point within an equilateral triangle is intended to alert the user of the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

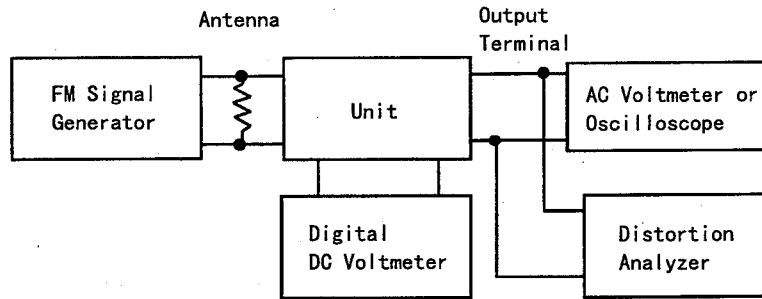
REAR PANEL CONNECTIONS



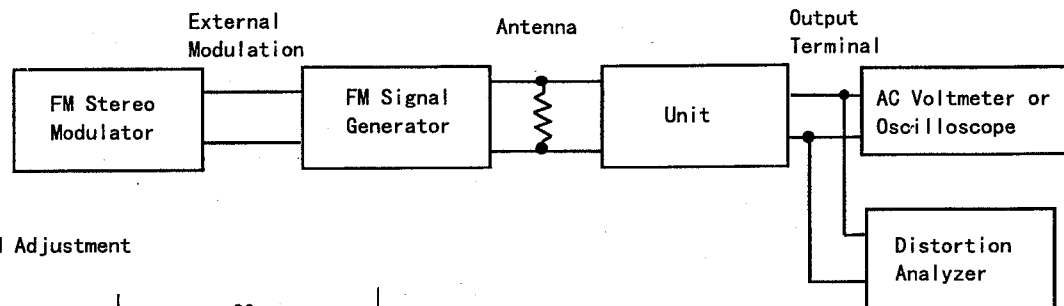
- | | | | |
|----------------|------------------|---------------|---|
| 1. DISC INPUT | 4. AUX INPUT | 7. PRE OUT | 10. FM ANTENNA (F-type terminal for AH, DIN for B, B1, C) |
| 2. CD INPUT | 5. TAPE 1 IN/OUT | 8. MAIN IN | 11. SOFT CLIPPING |
| 3. VIDEO INPUT | 6. TAPE 2 IN/OUT | 9. AM ANTENNA | 12. SPEAKERS A + B |
| | | | 13. NAD LINK IN, OUT |
| | | | 14. AC LINE CORD |

CONNECTION OF INSTRUMENT

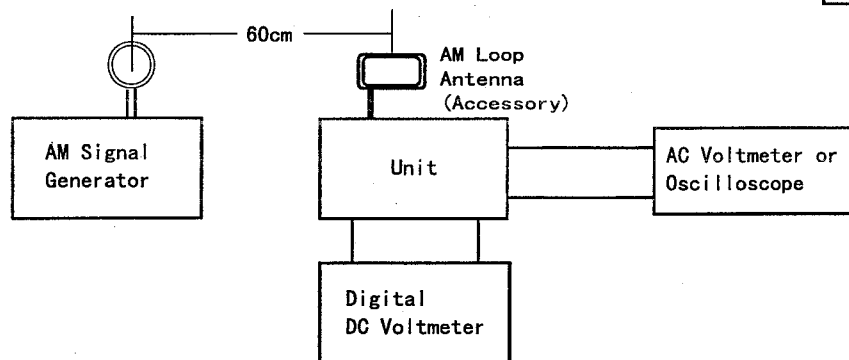
FM Adjustment



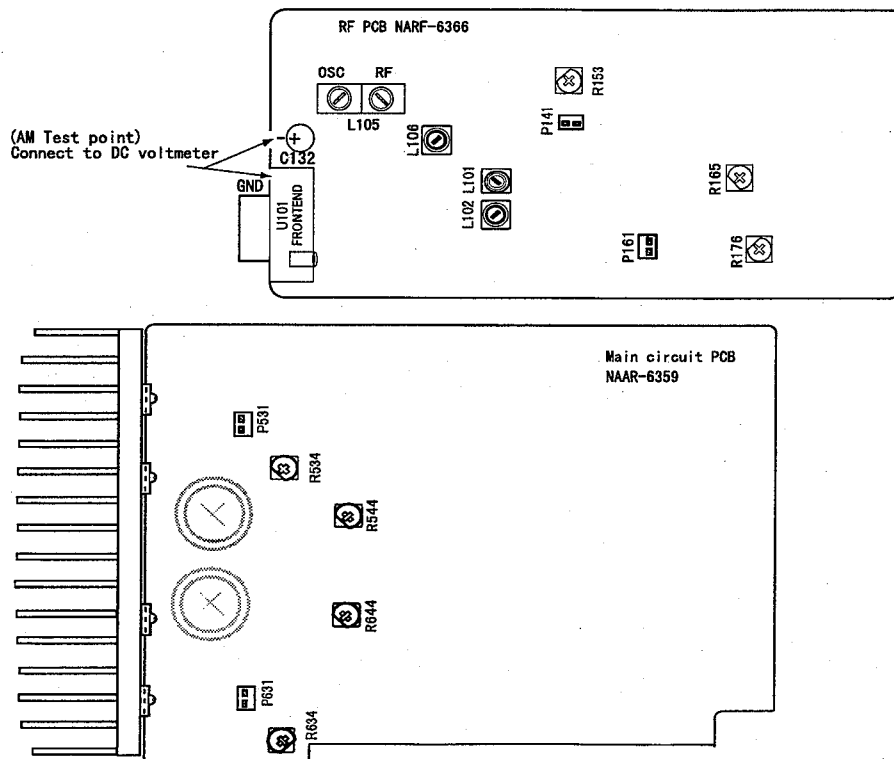
FM Stereo Adjustment



AM Adjustment



Adjustment Point



ALIGNMENT PROCEDURE

1. FM Adjustment

- Set the unit's frequency to 99.0MHz.
- Connect a dc volt meter with P141.
- Set FM MUTE/MODE SW (S717) to stereo.
- Set SSG(Standard Signal Generator) frequency to 99.0MHz, output to 60dB μ V and connect to 75 ohm antenna terminal.
- Turn the core of L101(NFIF-4087) so that the voltage can be within ± 20 mV.
- Turn the core of L102(NFIF-4088) so that mono distortion goes minimum.
- Repeat above items(e & f) a few times.
- Connect a Frequency counter with P161.
- Turn R176 so that the frequency can be within 19kHz $\pm$ 10Hz.
- Set the output of SSG to stereo.
- Turn IFT in the frontend(U101) within ± 180 degrees so that stereo distortion can be minimum.
- Adjust R165 and get maximum stereo separation.
- Set SSG output to 17dBuV.
- Adjust R153 so that STEREO indicator turns ON. As a optional method, judging by wave form is admitted.
- Repeat above items(m and n) a few times.

2. AM Adjustment

<AH> model

Step	AM SG output	Tuning Frequency	Output Indicator	Adjustment Point	Adjust for
1		530kHz	Digital DC voltmeter	OSC coil on RF Block L105	1.3V $\pm$ 0.2V
2	600kHz 400Hz 30% mod. 60dB/ m	600kHz	AC voltmeter	RF coil on RF Block L105	Maximum
3	990kHz 400Hz 30% mod. 60dB/ m	990kHz	AC voltmeter	L106	Maximum

Reference Specification

FM tuned voltage 87.50MHz $\sim$ 108.00MHz

More than 1.2V $\sim$ Less than 10V

AM tuned voltage 530kHz $\sim$ 1710kHz

1.3V $\sim$ Less than 9.0V

<C, B, B1> models

Step	AM SG output	Tuning Frequency	Output Indicator	Adjustment Point	Adjust for
1		522kHz or 531kHz	Digital DC voltmeter	OSC coil on RF Block L105	1.3V $\pm$ 0.2V
2	603kHz 400Hz 30% mod. 60dB/ m	603kHz	AC voltmeter	RF coil on RF Block L105	Maximum
3	999kHz 400Hz 30% mod. 60dB/ m	999kHz	AC voltmeter	L106	Maximum

Reference Specification

FM tuned voltage 87.50MHz $\sim$ 108.00MHz

More than 1.2V $\sim$ Less than 10V

AM tuned voltage 522kHz $\sim$ 1611kHz

1.3V $\sim$ Less than 9.0V

3. POWER AMP ADJUSTMENT

Idle Current

- By adjusting R534 and R634, set the voltage between test points P531 and P631 to 6.0mV $\pm$ 1.0mV immediately after the power is switched on.
- After 4 $\sim$ 6 minutes with the power on, readjust R534 and R634 to 5.0mV $\pm$ 1.0mV.

Offset Voltage

- After 4 $\sim$ 6minutes with the power on, adjust R544 and R644 to 0mV $\pm$ 20mV.

SPECIFICATIONS

Test conditions

- ① Power Supply Voltage & Frequency
 AH Type 120V / 60Hz
 C,B,B1 Type 230V / 50Hz

- ② Load Resistance
 Speaker Terminal 8 ohms / 4 ohms
 Other Terminal 47kohms

- ③ Temperature & Humidity
 Temperature 5 ~ 35 °C
 Humidity 45 ~ 85 % RH

- ④ Standard Knob and Switch Position (S.K.P.)
 a. Master Volume Control Maximum
 b. Bass Control Center
 c. Treble Control Center
 d. Balance Control Center
 e. Input Selector CD
 f. Tape Monitor OFF
 g. Muting OFF
 h. Speaker A ON ,B OFF
 i. Soft Clipping OFF
 j. Tone Defeat OFF

Available Remote Control Unit : RC-450S

「AUDIO SECTION」

Max. Power 1kHz/20kHz/20Hz L,R-ch (Sel.:CD) 35 W min. L/R
 Both Channel Driven Only Variable
 8 Ω Load

Both Channel Driver 1kHz/20kHz/20Hz L,R-ch (Sel.:CD) 35 W min. L/R
 4 Ω Load Only Variable

Line Separation	100Hz	- 17dBV	55.0 dB min.	L/R The Reverse Channel
	10kHz	- 17dBV	35.0 dB min.	L/R Terminated with 5.1kohm
Hum & Noise	CD	No Signal S.K.P.	-55.0 dBV	L/R Terminated With 5.1kohm
		Volume:Min.	-60.0 dBV	L/R Terminated With 5.1kohm
Bass Min.	100Hz	-10dBV' Vol:Mech.Center	- 6.0 ± 1.5 dB	
		Bass / Min.		
Bass Max.	100Hz	-10dBV' Vol:Mech.Center	+ 6.0 ± 1.5 dB	
		Bass/Max		
Treble Min	10kHz	-10dBV	- 7.5 ± 1.5 dB	
		Treble/Min.		
Treble Max.	10kHz	-10dBV' Vol:Mech.Center	+ 7.5 ± 1.5 dB	
		Treble/Max.		

「AM SECTION」

Tuning Range Fmin. AH / C, B, B1 530 / 522 kHz Freq. Step: AH/C, B, B1 = 10/9 kHz
 Fmax. AH / C, B, B1 1710 / 1611 kHz Changing the AM band step

	to 10kHz step	to 9kHz step
Maximum Sensitivity 603, 990, 1404 kHz (600, 990, 1400)	10k ohm	5.6k ohm

60dB/m max. Input=60dB/m

Usable Sensitivity 603, 990, 1404 kHz (600, 990, 1400) 15dB min.
 Image Rejection Ratio 1404/1400kHz 40dB min.
 IF Rejection Ratio 600/603kHz 28dB min.
 Selectivity 990±9kHz 24dB min.
 Fixed Output Level 990kHz 24dB min.
 Input=100dB/m

「FM SECTION」

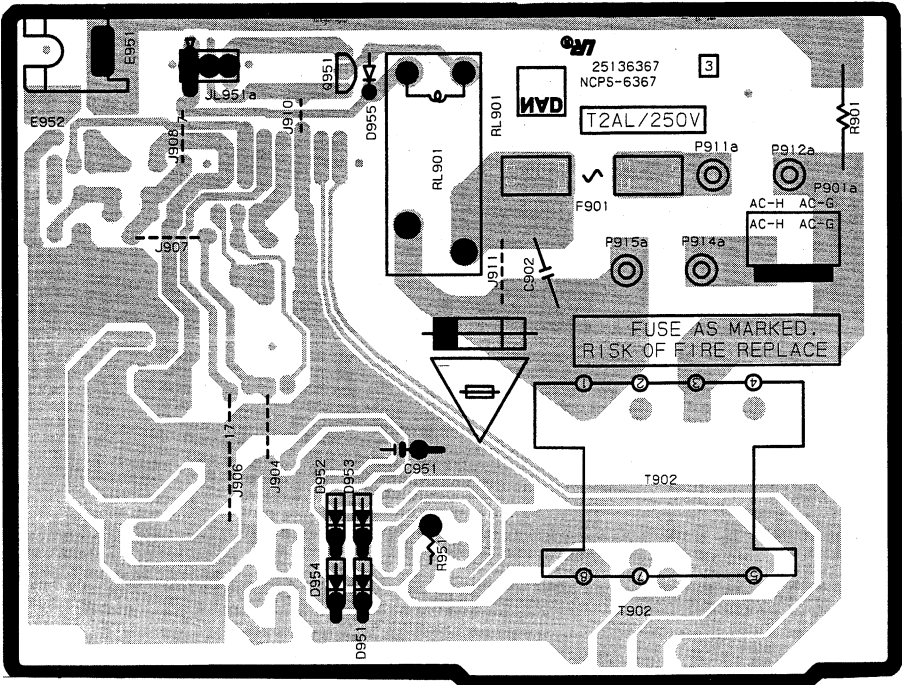
Tuning Range Fmin. 87.5 MHz Freq. Step(Manual:25KHz)
 Fmax. 108.0 MHz Auto:AH/C, B, B1=100/50KHz
 Usable Sensitivity 87.5,98,108 MHz 30dB min. Input=12dB μ
 3dB Limited Sensitivity 98MHz 6dB μ max.
 Image Rejection Ratio 108MHz 35/75dB min. (AH/ C, B, B1)
 IF Rejection Ratio 90MHz 70dB min.
 Selectivity 98MHz 40/65dB min. (AH/ C,B,B1)
 Signal to Noise Ratio 98MHz 64dB min. Input=60dB μ V
 Fixed Output Level 98MHz 550±200mV Input=60dB μ
 AH 750±250mV
 C,B

「FM STEREO」

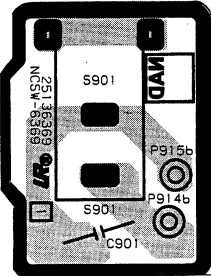
Blend 98MHz (L/R Separation at Blend ON) 13±3dB Input=60dB μ mod=1kHz
 Muting 98MHz Width 35±10kHz Adjust L102
 Depth 35 dBu max. Audition Input=60dB μ
 1KHz deviation

PCB LAYOUT

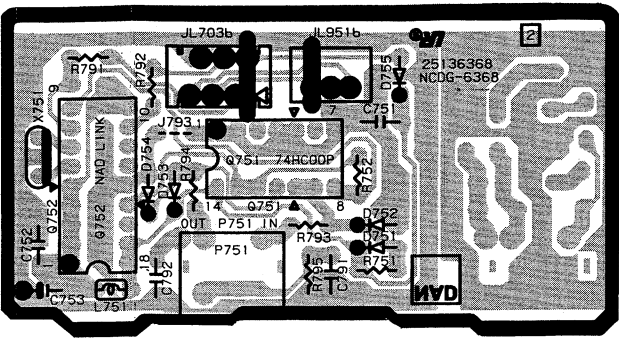
U09 : NAPS-6367 Power supply PC board



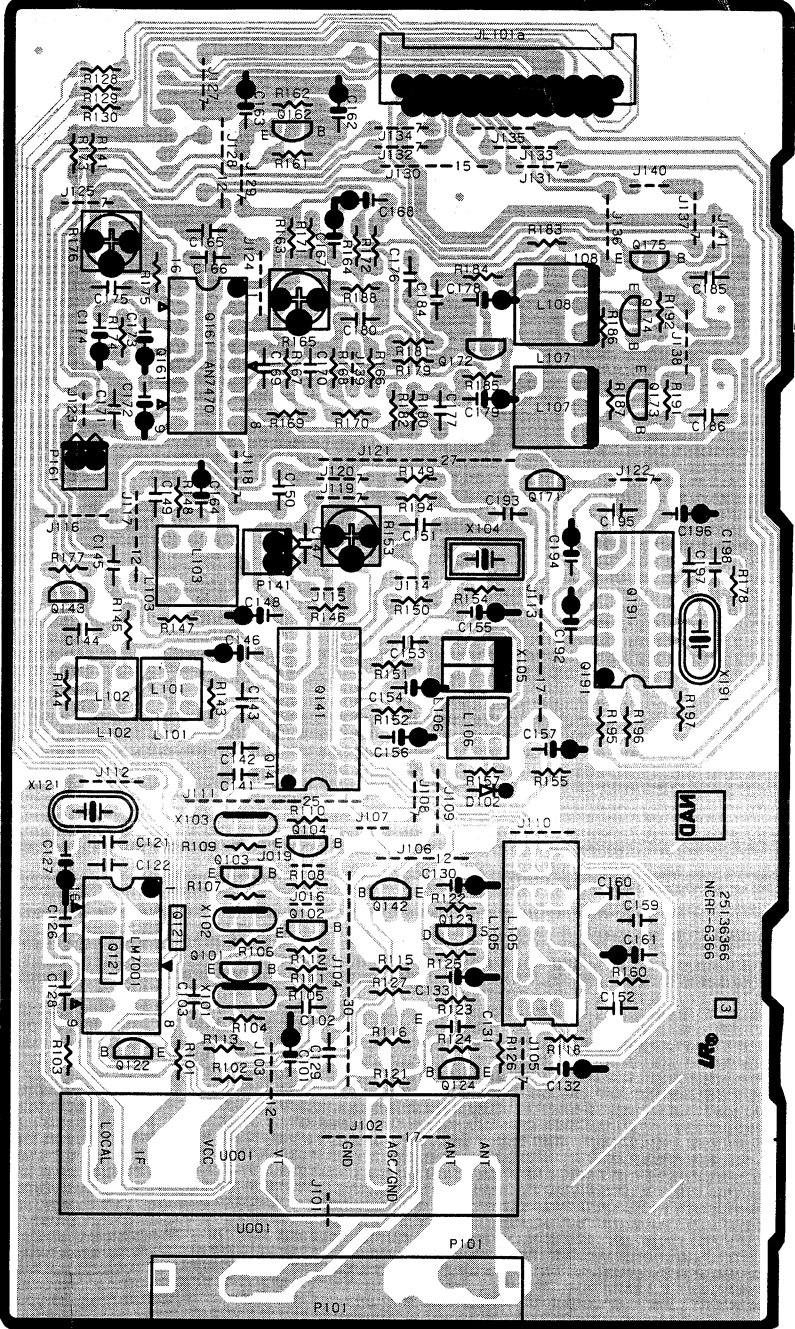
U11 : NASW-6369
Power switch PC board



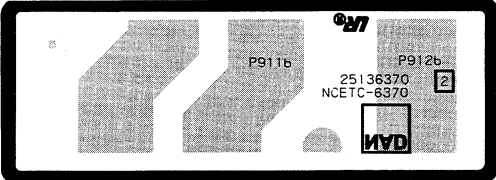
U10 : NADG-6368
NAD link PC board



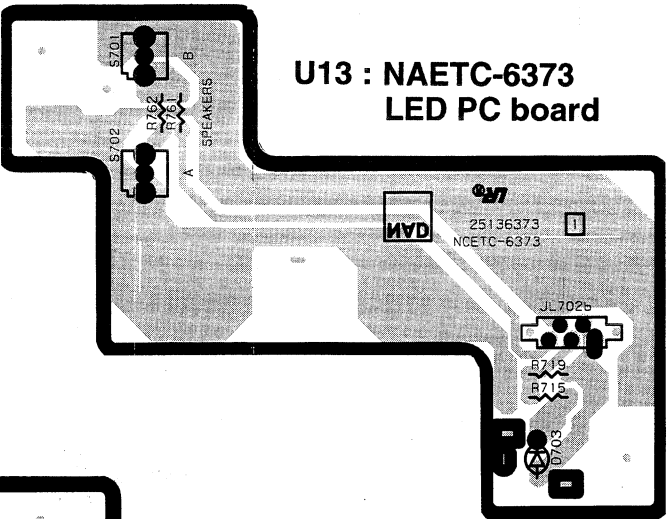
U08 : NARF-6366 RF circuit PC board



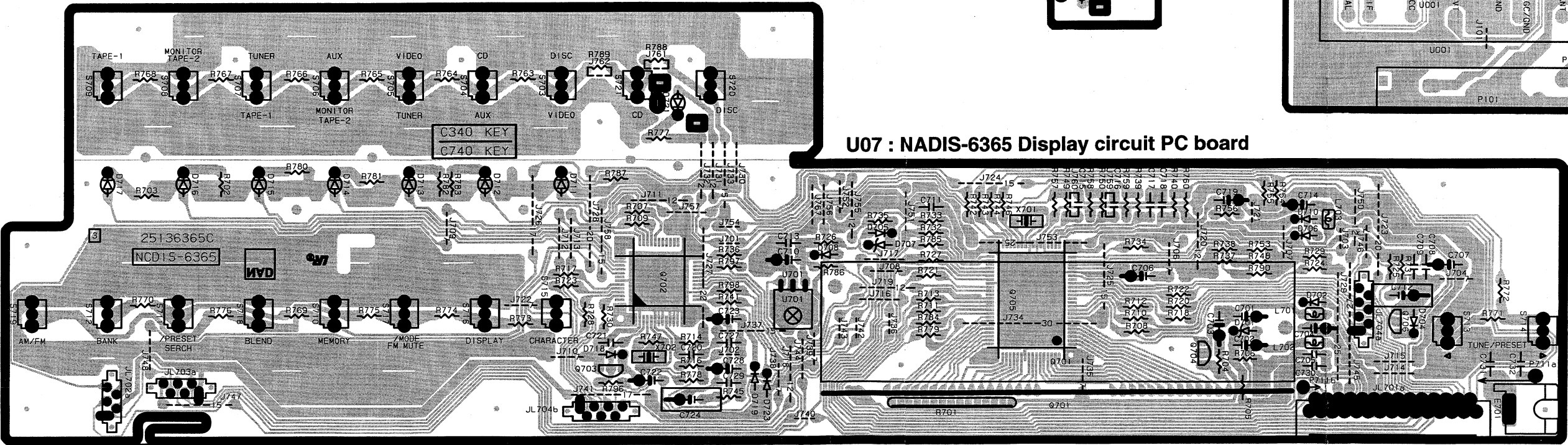
U12 : NAETC-6370
Other PC board



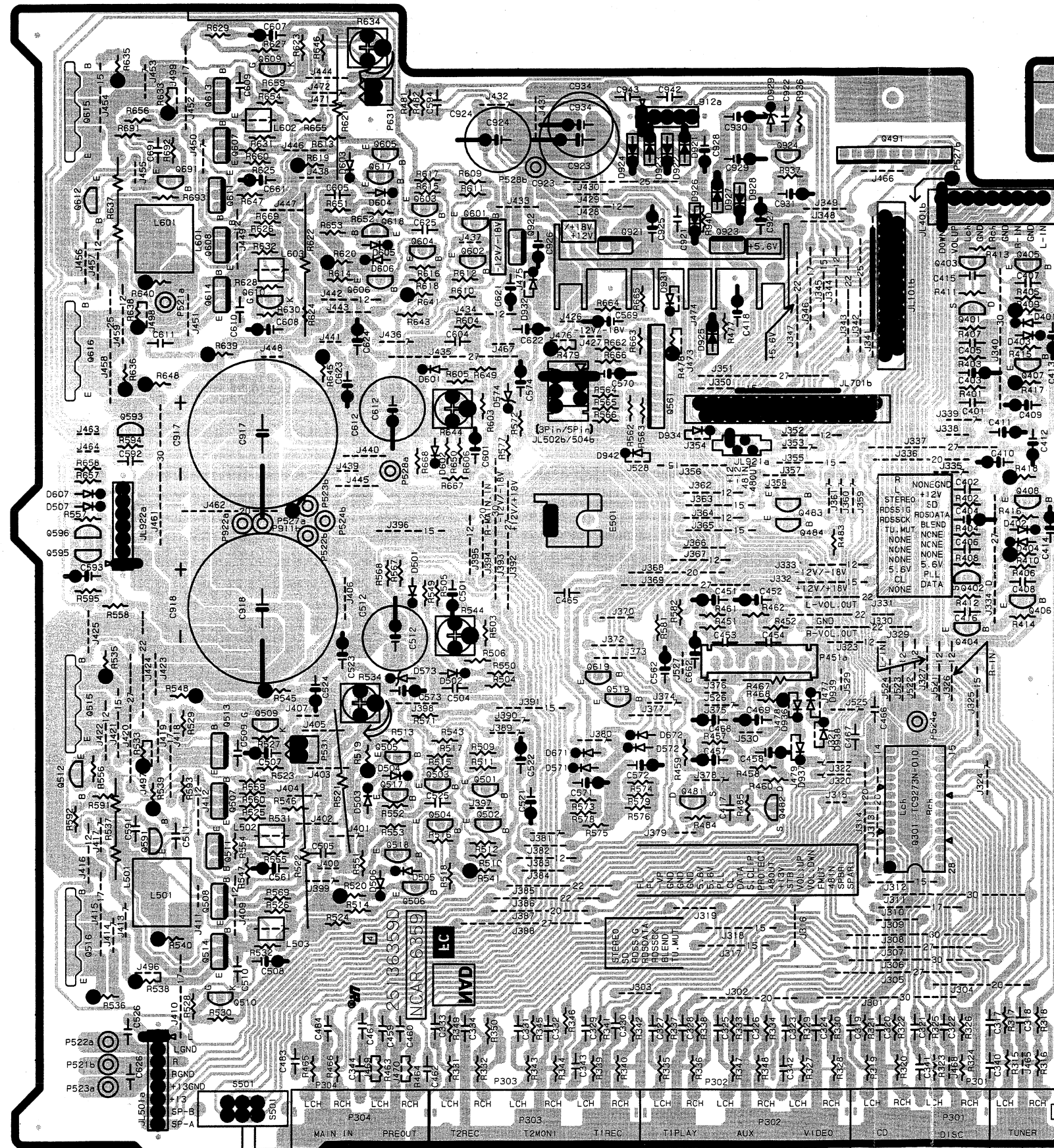
U13 : NAETC-6373
LED PC board



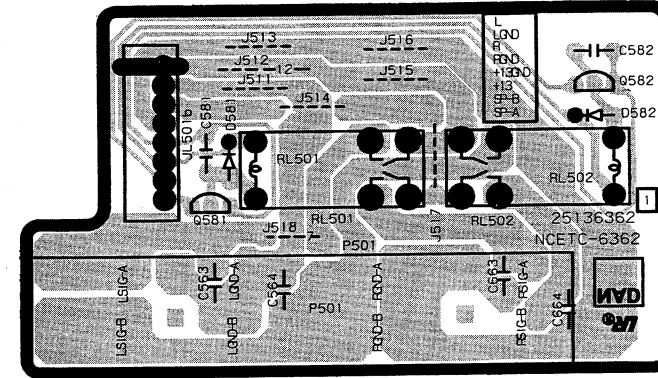
U07 : NADIS-6365 Display circuit PC board



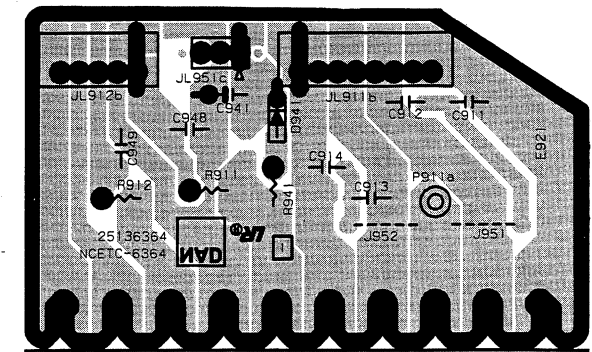
U01 : NAAR-6539 Main circuit PC board



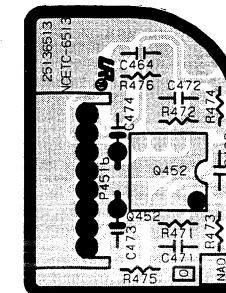
U04 : NAETC-6362 Speaker terminal PC board



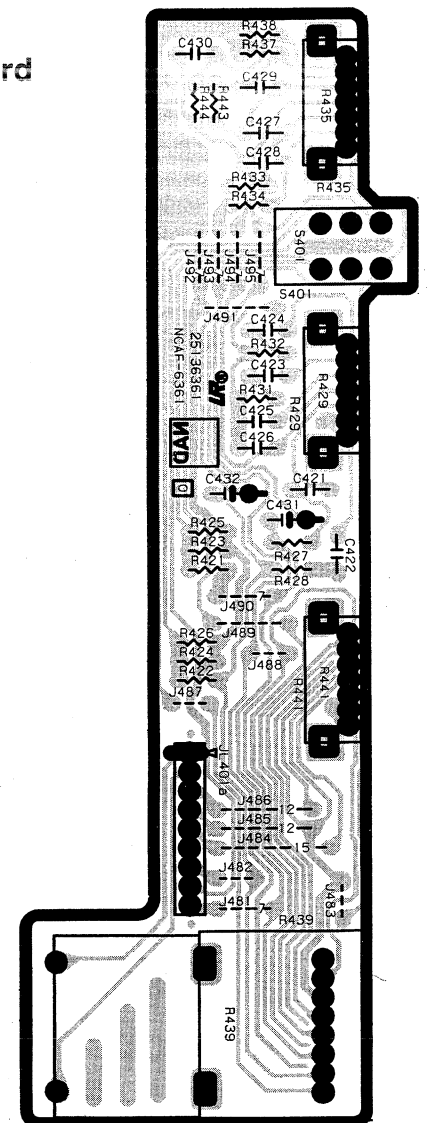
U06 : NAETC-6364 Transformer PC board



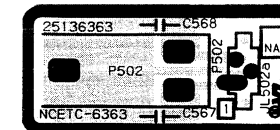
U14 : NAETC-6513 Sub PC board



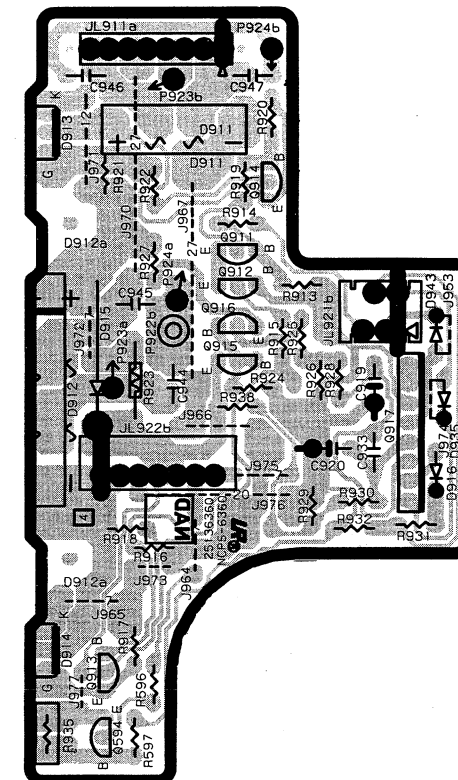
U03 : NAFF-6361 Control circuit PC board



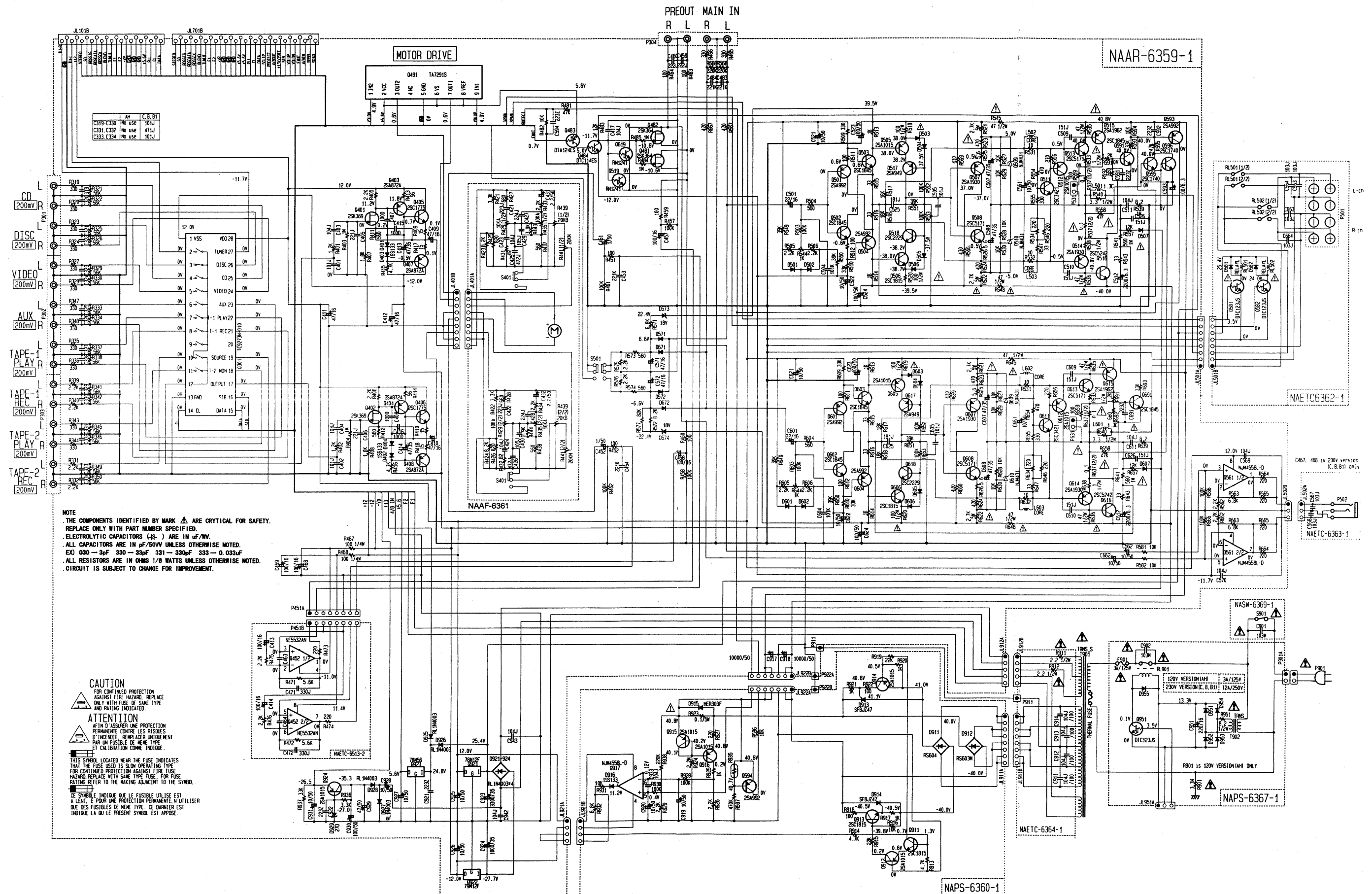
U05 : NAETC-6363 Head phone PC board



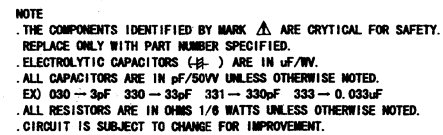
U02 : NAPS-6360 Sub power supply PC board



SCHEMATIC DIAGRAM

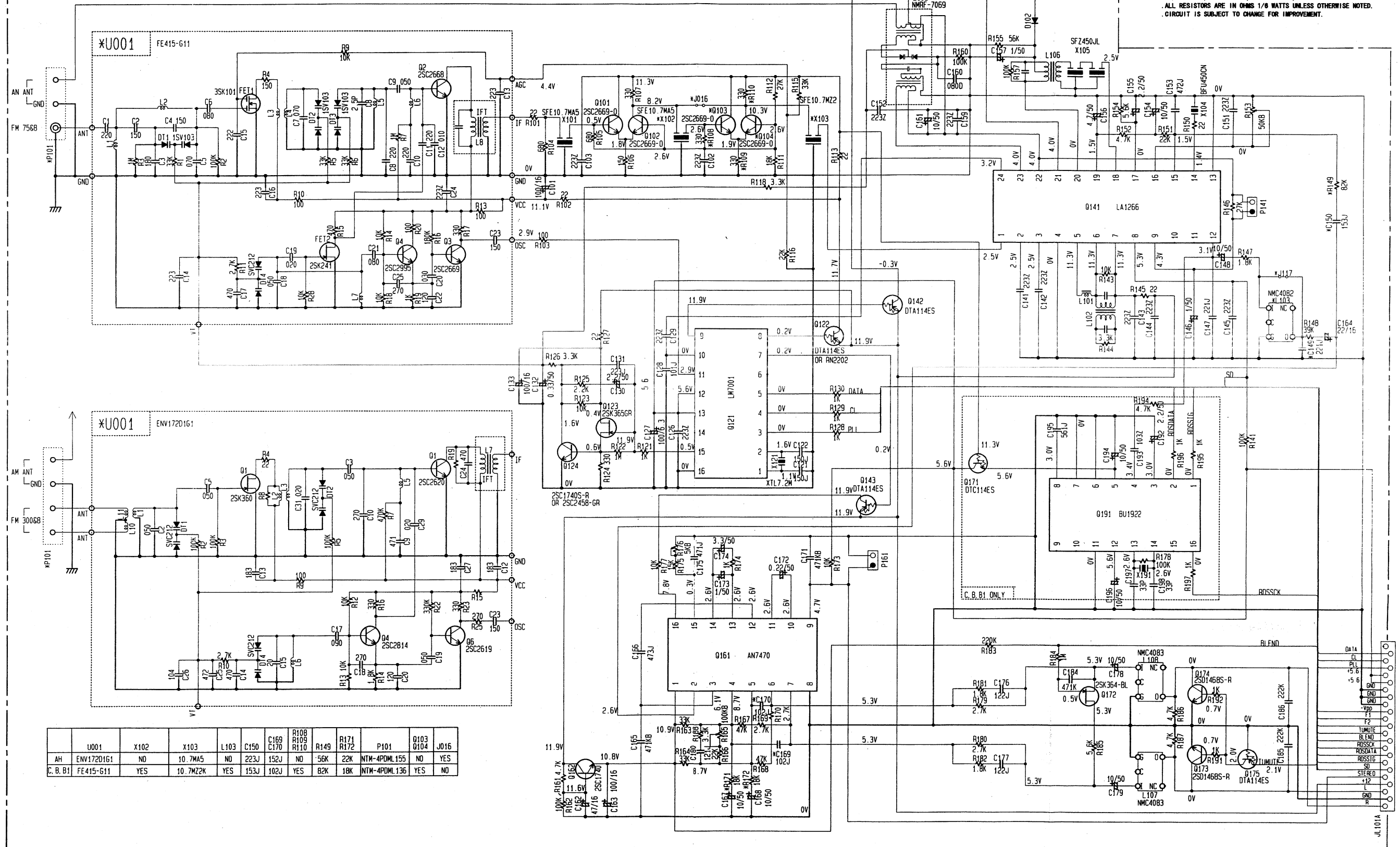


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SCHEMATIC DIAGRAM

NARF-6366-1



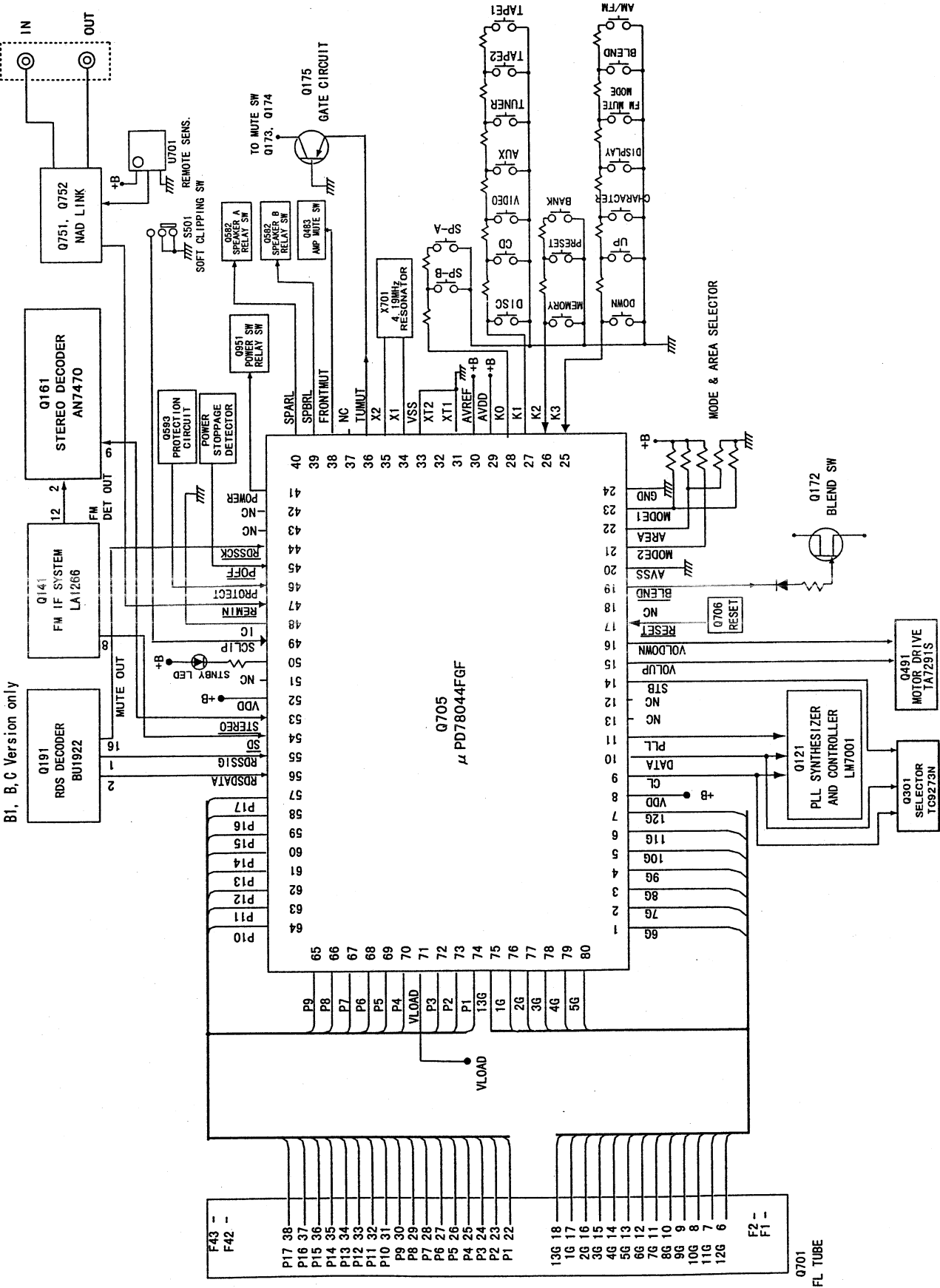
NOTE
THE COMPONENTS IDENTIFIED BY MARK Δ ARE CRITICAL FOR SAFETY.
REPLACE ONLY WITH PART NUMBER SPECIFIED.
ELECTROLYTIC CAPACITORS (C₁₅₇) ARE IN μ F/VV.
ALL CAPACITORS ARE IN pF/50V UNLESS OTHERWISE NOTED.
EX 030 - 3pF 330 - 33pF 331 - 330pF 333 - 0.033 μ F
ALL RESISTORS ARE IN OHMS 1/8 WATTS UNLESS OTHERWISE NOTED.
CIRCUIT IS SUBJECT TO CHANGE FOR IMPROVEMENT.

MICROPROCESSOR CONNECTION DIAGRAM & TERMINAL DESCRIPTION

Pin No.	Function	I/O	Description
1	7G/6G	O	Grid control output pin. On at the high level.
2	6G/7G	O	Grid control output pin. On at the high level.
3	5G/8G	O	Grid control output pin. On at the high level.
4	4G/9G	O	Grid control output pin. On at the high level.
5	3G/10G	O	Grid control output pin. On at the high level.
6	2G/11G	O	Grid control output pin. On at the high level.
7	1G/12G	O	Grid control output pin. On at the high level.
8	VDD	-	Power supply pin. (+5V)
9	CL	O	Clock out pin. Connect to the terminals CK of function switch.
10	DATA	O	Data output pin. Connect to the terminals DATA of function switch Q301(TC9273N), electric volume IC Q491 and surround mode switch.
11	PLL	O	Chip enable output pin for PLL IC(Q121).
12	NC		
13	NC		
14	STB	O	Chip enable output pin for function switch. (Q301)
15	VOLUP	O	Volume control output pin. (Volume up)
16	VOLDOWN	O	Volume control output pin. (Volume down) Refer table 1.
17	RESET	I	System reset input pin.
18	NC		
19	BLEND	O	To blend switch (Q172). Blend : High
20	AVSS	-	Ground pin of A/D converter.
21	MODE2	I	Initializing input of operation mode.
22	AREA	I	Initializing input of frequency-area. (8-area)
23	MODE1	I	Initializing input of operation mode.
24	GND	I	To GND.
25	K3	I	Operation key connection pin.
26	K2	I	Operation key connection pin.
27	K1	I	Operation key connection pin.
28	K0	I	Operation key connection pin.
29	AVDD	-	Analogue power supply of A/D converter. (+5V)
30	AVREF	-	Reference voltage input pin of A/D converter.
31	XT1	-	Crystal connection pin for sub system clock resonator. (to ground)
32	XT2	-	Crystal connection pin for sub system clock resonator.
33	VSS	-	Ground pin.
34	X1	I	Crystal connection pin for main system clock resonator.
35	X2	I	Crystal connection pin for main system clock resonator. Connect the ceramic osc.(4.19MHz)
36	TUMUT	O	Muting output pin for tuner section.
37	NC		
38	FRONTMUT	O	Muting output pin for front amplifier.
39	SPBRL	O	Muting output pin of center SP,LS and RS at speaker-A off.
40	SPARL	O	Relay(Speaker-A) control output pin.
41	POWER	O	Power source control output pin. Power on: H
42	NC		
43	NC		
44	RDSSCK	I	To connecting the SKC terminal of IC191(RDS -modulator).
45	POFF	I	Power stoppage detector input pin.
46	PROTECT	I	Detector input pin of protection circuit.
47	REMIN	I	Remote-control signal input pin.
48	IC	-	Internal connection pin. Connect to the ground terminal.
49	SCL IP	I	To connection INH pin for sound select signal IC.
50	STBY/RECV	O	Standby and received indicator output pin.
51	NC		
52	VDD	-	Power supply pin (+5V).
53	STEREO	I	Detector input pin of FM stereo broadcast.
54	SD	I	Detector input pin of broadcast more than muting level.
55	RDSSIG	I	When RDSSEN=1: to connect the SIG-port of IC 191.
56	RDSDATA	I	When RDSSEN=1: to connect the DATA-port of IC 191.
57	P17/P4	O	Segment output pins. On at the high level.
70			
71	VLOAD	I	Pull down resistor connection pin of controller and driver of FL..
72	P3/P1	O	Segment output pins. On at the high level.
74			
75	13G/5G	O	Grid output pins. On at the high level.
80			

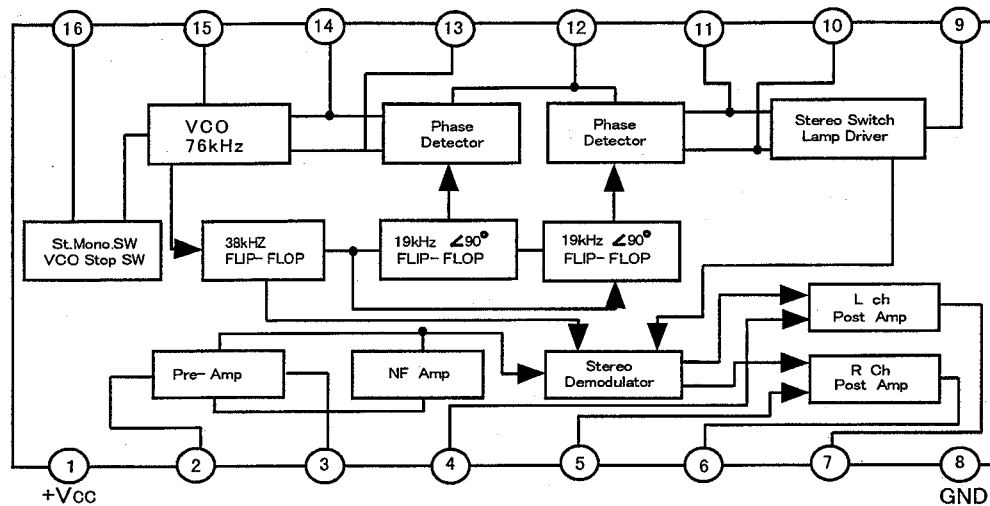
Table 1		
Operation	Output (Vol. up)	Output (Vol. down)
Stop	H	H
Vol. Up	H	L
Vol. Down	L	H
Power	L	L

Mute off	H
Speaker-B on	H



IC BLOCK DIAGRAM

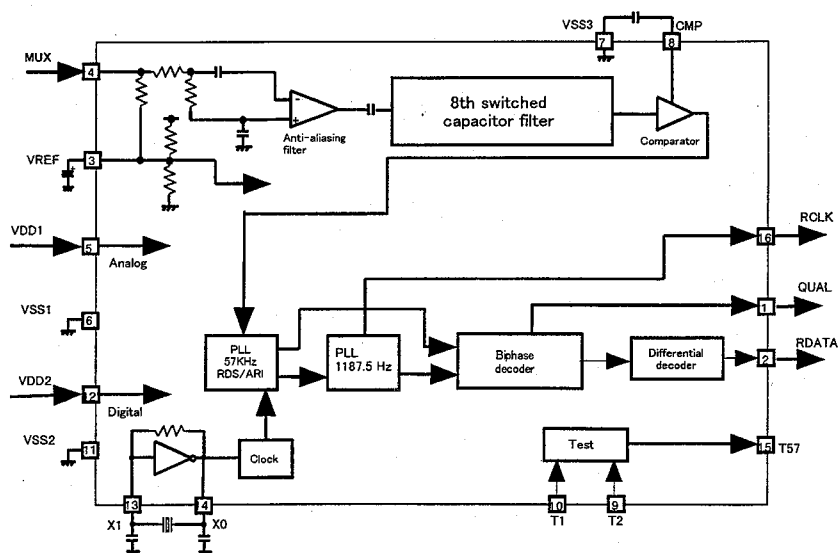
Q161 FM STEREO MULTIPLEX DEMODULATOR AN7470



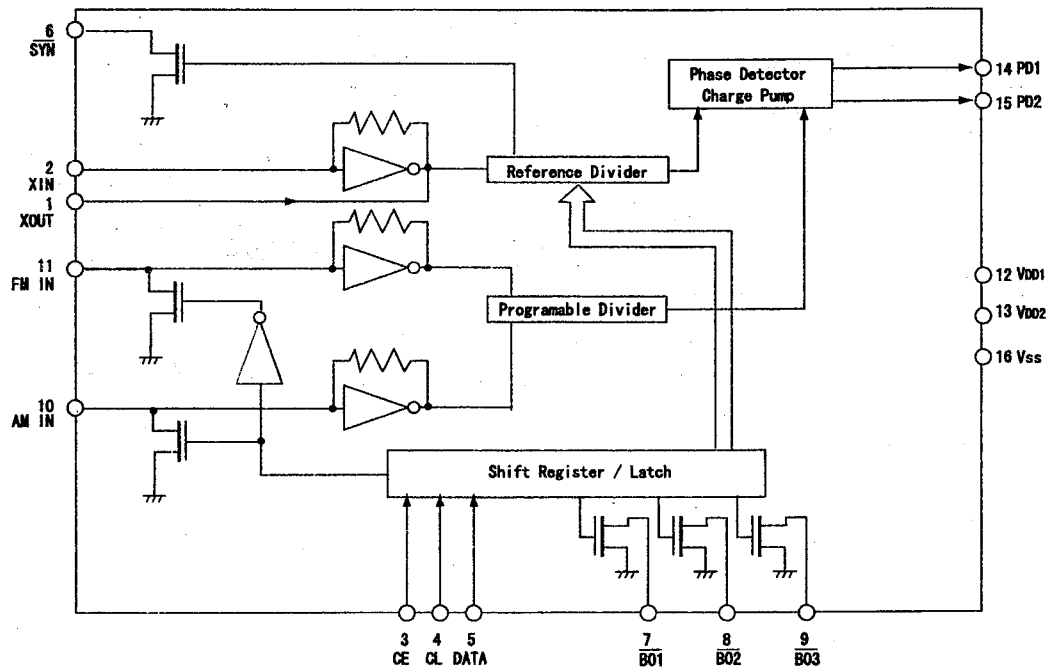
PIN DESCRIPTION

Pin No.	Pin name	Pin No.	Pin name
1	Vcc	9	Stereo indicator and VCO freq. Monitor
2	Composite signal input	10,11	Pilot detection low-pass filter
3	Buffer Amp. Output	12	Pilot signal input
4	L Ch. Amp. Feedback	13	PLL low-pass filter
5	R Ch. Amp. Feedback	14	PLL low-pass filter
6	R Ch. Amp. Output	15	VCO RC time constant
7	L Ch. Amp. Output	16	Forced Mono. VCO killer
8	Ground		

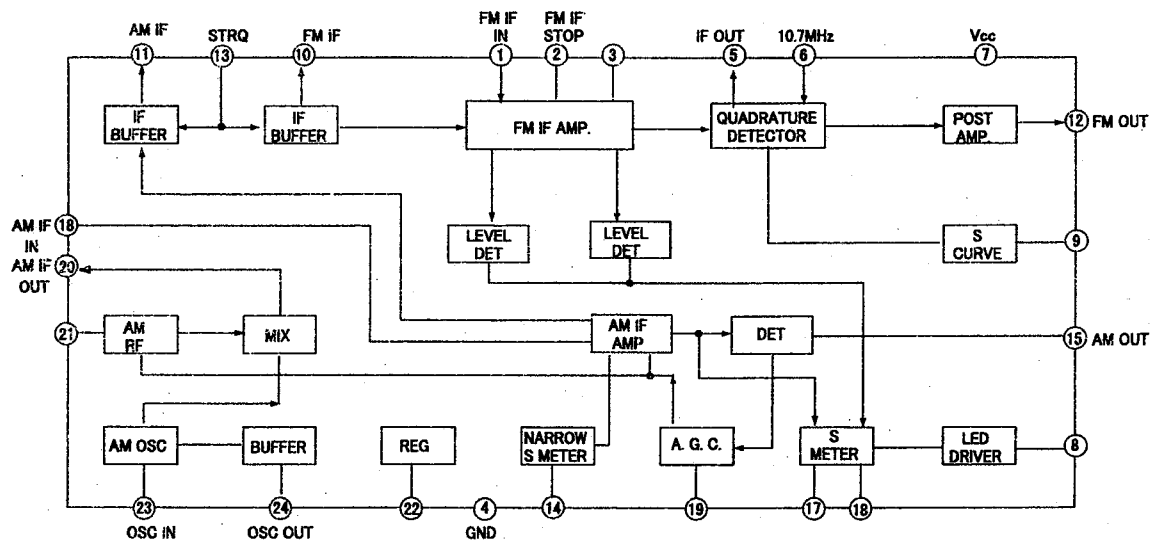
Q191 RDS DECODER BU1922



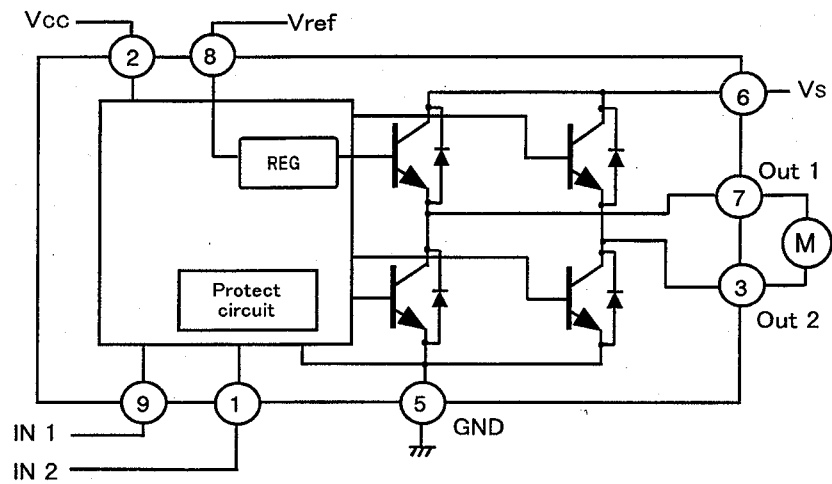
Q121 PLL Frequency Synthesized LSI LM7001



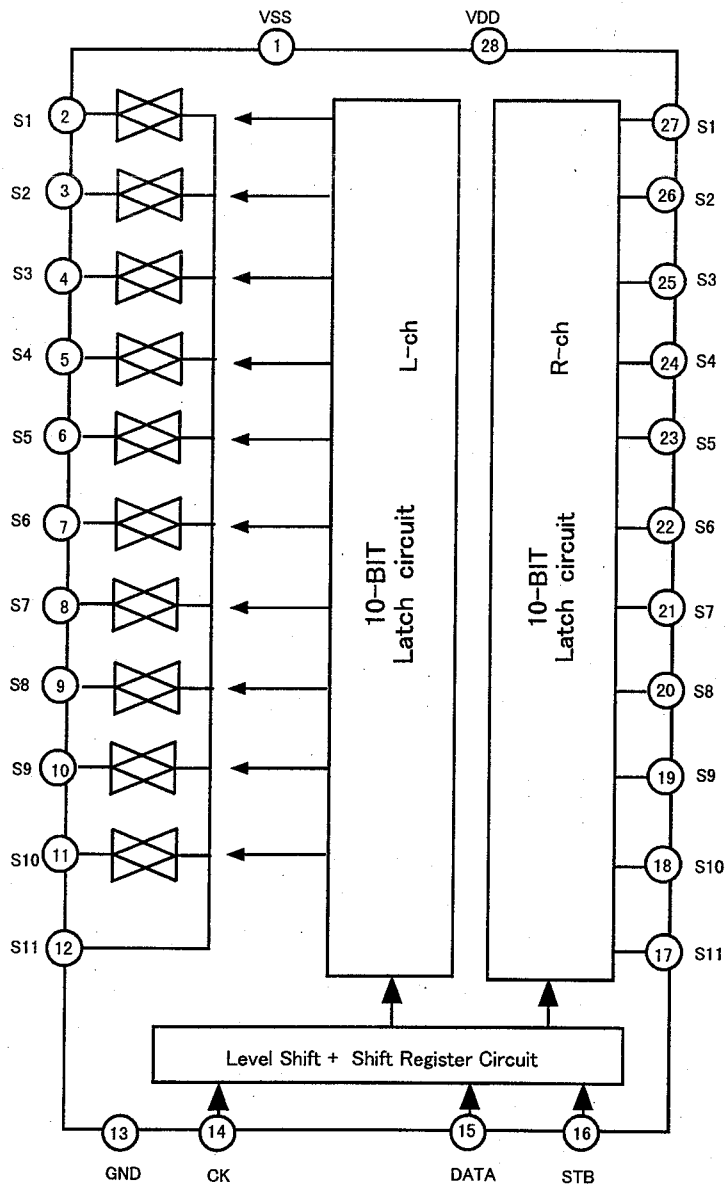
Q141 FM IF and AM RADIO SYSTEM LA1266



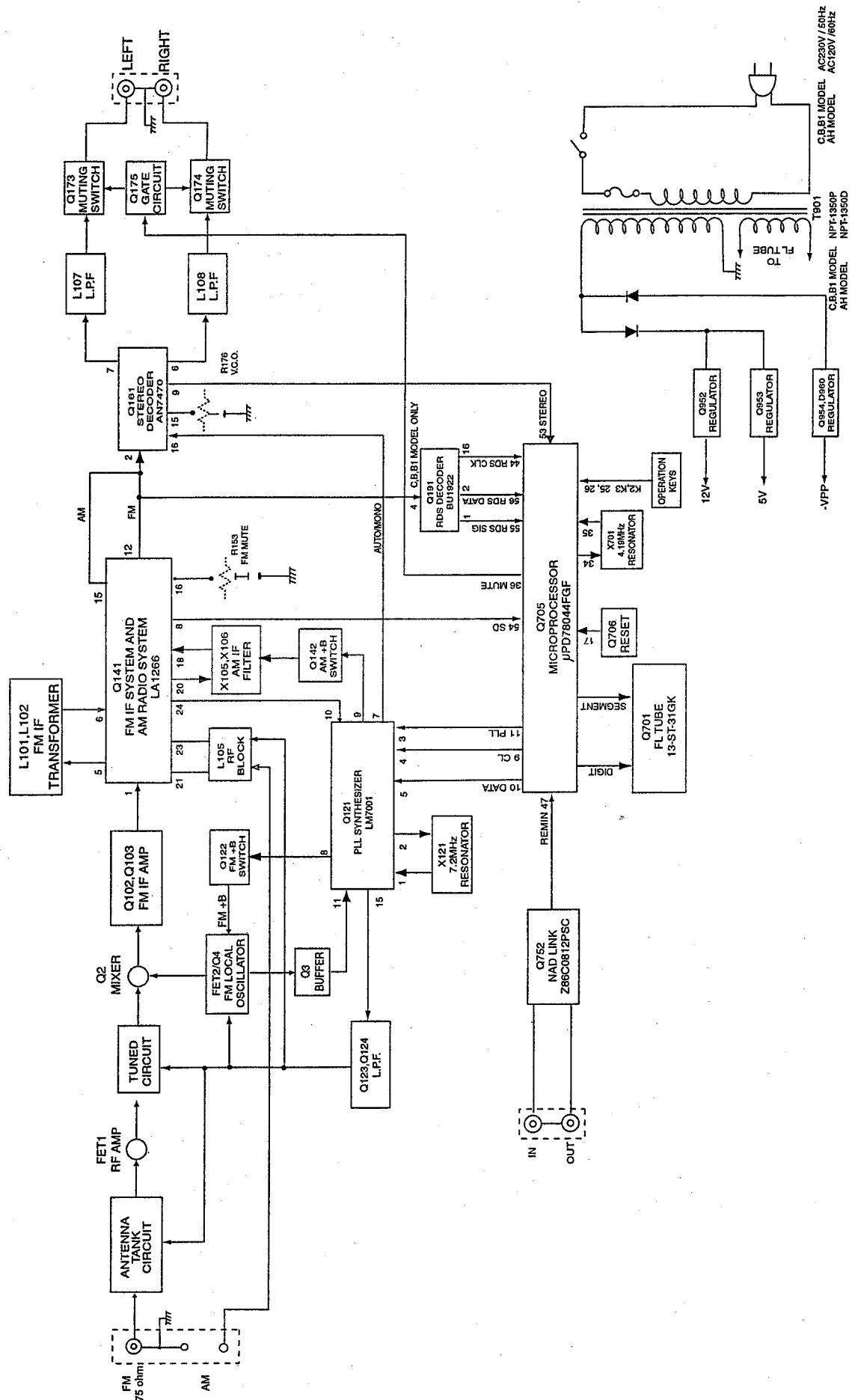
Q491 MOTOR DRIVER IC TA7291S



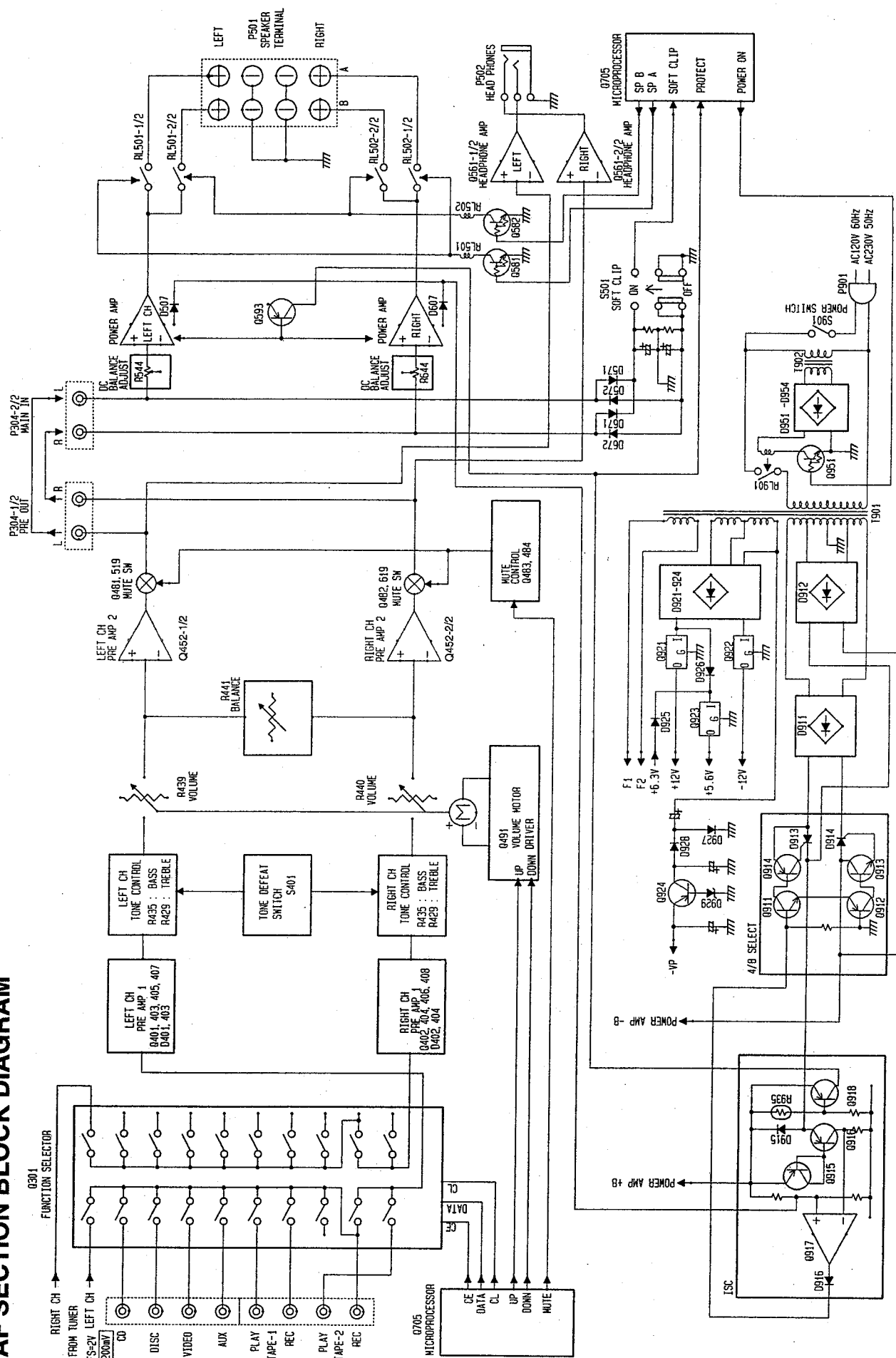
Q301 FUNCTION SELECT IC TC9273N



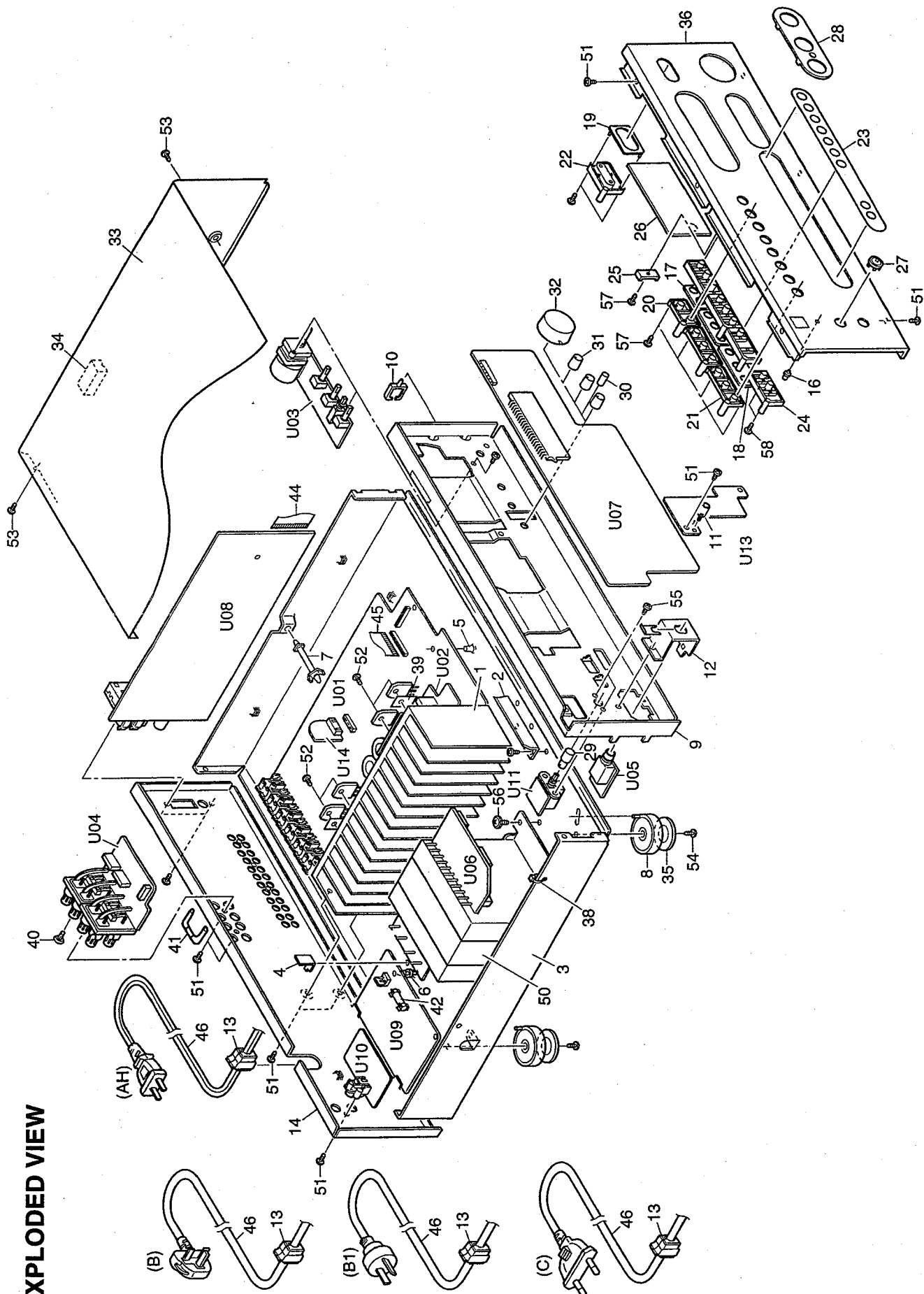
RF SECTION BLOCK DIAGRAM



AF SECTION BLOCK DIAGRAM



EXPLODED VIEW



EXPLODED VIEW PARTS LIST

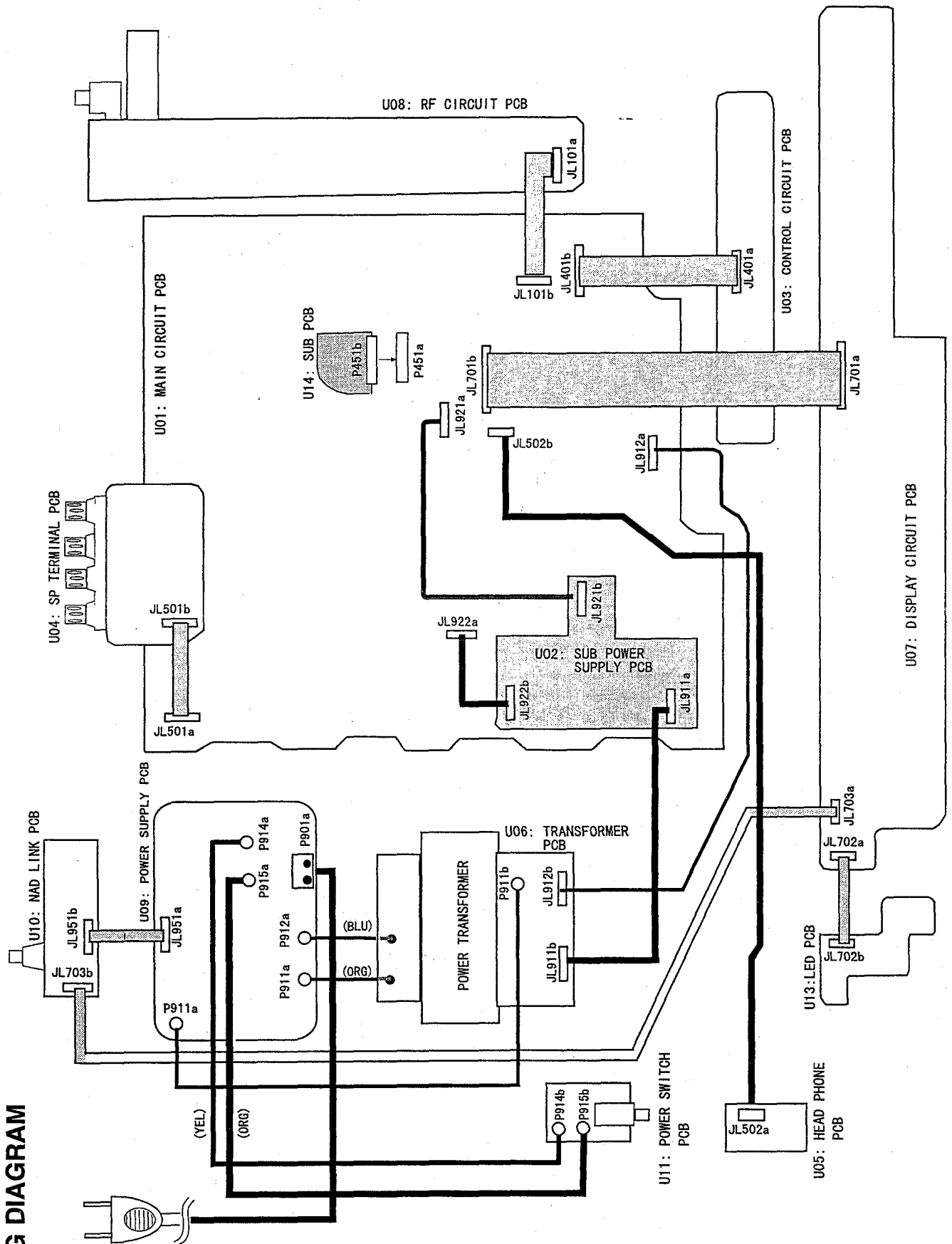
REF. No.	PART No.	Q'ty	DESCRIPTION	REF. No.	PART No.	Q'ty	DESCRIPTION
1	27160417	1	Heatsink(Main AMP.)	33	28184741A	1	Cover
2	27141671	1	Retainer(for main heat sink)	34	28140265	1	Cushion(cover)
3	27100364A	1	Chassis	35	28141378	4	Cushion(leg)
4	27130745	1	Bracket	36*AH	27212011	1	Front panel
5	27191044	2	KGPS-8RF,Holder	36*B1,B,C	27212040	1	Front panel
6	27190266	1	KGLS-12RF,Holder	38	260208	3	Wire tie
7	27190369	1	Holder	39	223024	4	Isolation sheet
8	27175306	4	Leg	40*B1,B,C	880048	8	P-3055B-8L, Plastic rivet
9	27111082	1	Front bracket	41	25055436	2	NPLG-2P418 Plug
10	27300243	2	WS-2W, Wire clamp (Front chassis)	42*AH	252161	1	3A-UL/T-237, Fuse
11	27191051	1	Holder LED	42*B1,B,C	252074	1	2A-SE-EAK, Fuse
12	27141728	1	Retainer for Head phone	44	2047231012	1	NCFC7-231012, Flexible cable
13	27300750	1	Bushing, cord	45	2047292012	1	NCFC7-292012, Flexible cable
14*AH	27122492	1	Rear panel	46*AH	253279HIT	1	AS-UC-2#18, Power supply cord
14*B1,B,C	27122493	1	Rear panel	46*B	253198HIT	1	AS-BS, Power supply cord
16	28198858	1	Facet, Power	46*B1	253197HIT	1	AS-SAA, Power supply cord
17	27267996	1	Guide DUO	46*C	253193HIT	1	AS-CEE, Power supply cord
18	27267997	2	Guide TRIO	50*AH	2301354	1	NPT-1348D, Power transformer
19	27267998	1	Guide RACKER	50*B1,B,C	2301355	1	NPT-1348P, Power transformer
20	28325605	1	Button DUO	51	838130088	50	3TTB+8B,Self-tapping screw
21	28325606	2	Button TRIO	52	801433	4	3SMS8W,SW+14B(BC),Special screw
22	28325607	1	Button RACKER	53	838430088	6	3TTB+8B(BC), Self-tapping screw
23	27215307	1	Decorative frame	54	831130088	4	3TTW+8B,Self-tapping screw
24	28325608	4	Button, Input	55	838430107	2	3TTB+10S(BC),Self-tapping screw
25	27191052	1	Holder (for input buttons)	56	830440089	4	4TTC+8C(BC),Self-tapping screw
26	28191831	1	Clear plate	57	838120068 or	8	2TTB+6B or
27	27267995	1	Guide, Power		838220068		2TTB+6B(Ni), Self-tapping screw
28	27215309	1	Decorative frame, Tone	58	838126068 or	9	2.6TTB+6B or
29	28325604	1	Button, Power		833426068 or		2.6TTP+6B(BC) or
30	28325610	1	Button, Defeat		834426068		2.6TTS+6B(BC), Self-tapping screw
31	28325609	3	Knob, Tone				
32	28325611	1	Knob, Volume				

REF. No.	PART No.	Q'ty	DESCRIPTION	REF. No.	PART No.	Q'ty	DESCRIPTION
U01*AH	1A786559-1A	1	NAAR-6359-1A, Main circuit PC board ass'y	U01*B1,B,C	1A786559-1B	1	NAAR-6359-1B, Main circuit PC board ass'y
U02*AH	1A786560-1A	1	NAPS-6360-1A, Sub power supply PC board ass'y	U02*B1,B,C	1A786560-1B	1	NAPS-6360-1B, Sub power supply PC board ass'y
U03*AH	1A786561-1A	1	NAAF-6361-1A, Control circuit PC board ass'y	U03*B1,B,C	1A786561-1B	1	NAAF-6361-1B, Control circuit PC board ass'y
U04*AH	1A786562-1A	1	NAETO-6362-1A, Speaker terminal PC board ass'y	U04*B1,B,C	1A786562-1B	1	NAETO-6362-1B, Speaker terminal PC board ass'y
U05*AH	1A786563-1A	1	NAETO-6363-1A, Head phone PC board ass'y	U05*B1,B,C	1A786563-1B	1	NAETO-6363-1B, Head phone PC board ass'y
U06*AH	1A786564-1A	1	NAETO-6364-1A, Transformer PC board ass'y	U06*B1,B,C	1A786564-1B	1	NAETO-6364-1B, Transformer PC board ass'y
U07*AH	1A786565-1A	1	NADIS-6365-1A, Display circuit PC board ass'y	U07*B1,B,C	1A786565-1B	1	NADIS-6365-1B, Display circuit PC board ass'y
U08*AH	1A786566-1A	1	NARF-6366-1A, RF circuit PC board ass'y	U08*B1,B,C	1A786566-1B	1	NARF-6366-1B, RF circuit PC board ass'y
U09*AH	1A786567-1A	1	NAPS-6367-1A, Power supply PC board ass'y	U09*B1,B,C	1A786567-1B	1	NAPS-6367-1B, Power supply PC board ass'y
U10*AH	1A786568-1A	1	NADG-6368-1A, NAD link PC board ass'y	U10*B1,B,C	1A786568-1B	1	NADG-6368-1B, NAD link PC board ass'y
U11*AH	1A786569-1A	1	NASW-6369-1A, Power switch PC board ass'y	U11*B1,B,C	1A786569-1B	1	NASW-6369-1B, Power switch PC board ass'y
U13*AH	1A786573-1A	1	NAETO-6373-1A, LED PC board ass'y	U13*B1,B,C	1A786573-1B	1	NAETO-6373-1B, LED PC board ass'y
U14*AH	1A786513-1A	1	NAETO-6513-1A, Sub PC board ass'y	U14*B1,B,C	1A786513-1B	1	NAETO-6513-1B, Sub PC board ass'y

NOTE: THE COMPONENTS IDENTIFIED BY MARK Δ ARE CRITICAL
FOR RISK OF FIRE AND ELECTRIC SHOCK.
REPLACE ONLY WITH PART NUMBER SPECIFIED.

NOTE:
 <AH>: U.S.A., Canadian model only
 : U.K. model only
 <B1>: Australian model only
 <C>: European model only

WIRING DIAGRAM



ELECTRICAL PARTS LIST

NOTE: Replacement of the transistor of mark *, if necessary, must be made from the same beta group (HFE) as the original type.

REF. No.	PART No.	DESCRIPTION	REF. No.	PART No.	DESCRIPTION
U14: Sub PC board (NAETC-6513)			Coils		
Capacitors			L501,L601	231176S	S-1.3C
C413	354764709	47 μ F,35V,Elect.	L502,L503,L602,	5597-45502	Ferrite Core
C414	354764709	47 μ F,35V,Elect.	L603		
IC			Ics		
Q452	22240656	NE5532AN	Q301	22240881	TC9273N-010
Others			Q491	22240239	TA7291S
P451b	25055912	NPLG-8P865	Q561	22240293 or	NJM4558L-D or
U01: Main circuit PC board (NAAR-6359)				22240247	BA15218N
Capacitors			Q509,Q510,Q609,	22241254	NJM431L
C457,C458,C468,	354741019	100 μ F,16V,Elect.	Q610		
C469,C473,C474,			Q921	222780125	78M12HF
C593			Q921a	27160209	HEAT-SINK(RAD-67)
C501,C601	354742209	22 μ F,16V,Elect.	Q921b	838430107	3TTB+10S(BC),
C409-C412,	354744709	47 μ F,16V,Elect.			Self-tapping screw
C571,C572			Q922	222790125	79M12HF
C418	354762209	22 μ F,35V,Elect.	Q922a	27160429	Heat sink
C507,C508,C607,	354764709	47 μ F,35V,Elect.	Q922b	838430107	3TTB+10S(BC),
C608					Self-tapping screw
C451,C452	354780109	1 μ F,50V,Elect.	Q923	222780565JRC	78M56(NJM78M56FA)
C521,C522,C561,	354781009	10 μ F,50V,Elect.	Transistors		
C562,C621,C622,			Q401,Q402	2214736 or	2SK369-BL or
C661,C662,C931				2214735	2SK369-GR
C925-C928,			Q403,Q404,Q407,	2211085	2SA872A-E
C523,C524,C623,	354781019	100 μ F,50V,Elect.	Q408		
C624,C930			Q405,Q406	2215116	2SC1775-F
C929	354784709	47 μ F,50V,Elect.	Q481,Q482	2215196	2SK364-BL
C504,C604	374721015	100pF $\pm$ 10%,50V,Plastic	Q483	2212600	DTA124ES
C403,C404,C417,	374721044	0.1 μ F $\pm$ 5%,50V,Plastic	Q484	2213290	DTC114ES
C423,C511			Q501,Q504,Q601,	2211793	2SA992-E
C569,C570,C611,	374721044	0.1 μ F $\pm$ 5%,50V,Plastic	Q604		
C942,C943			Q502,Q503,Q602,	2211733	2SC1845-E
C453,C454*AH	374722215	220pF $\pm$ 10%,50V,Plastic	Q603		
C483,C484	374722215	220pF $\pm$ 10%,50V,Plastic	Q505,Q512,Q605	2211455	2SA1015-GR
C459-C462	374722224	2200pF $\pm$ 5%,50V,Plastic	Q506,Q606,Q913,	2211255	2SC1815-GR
*B1,B,C			Q612,Q924		
C917,C918	3504344	10000 μ F,50V,Elect.	Q507,Q508,Q514,	2203000	2SA1930
C612,C512	354722229	2200 μ F,6.3V,Elect.	Q607,Q614		
C924	354761029	1000 μ F,35V,Elect.	Q511,Q611,Q611	2212654 or	2SC3421-Y or
C923	354763329	3300 μ F,35V,Elect.		2212653	2SC3421-O
Diodes			Q511a	27160416A	(TR) Heat sink
D401-D404,	223163	1SS133	Q511b	838430107	3TTB+10S(BC),
D501-D507,					Self-tapping screw
D571-D574,			Q611a	27160416A	Heat sink (TR)
D601-D607,			Q611b	838430107	3TTB+10S(BC),
D671,D672			Q513,Q608,Q613	2203010	2SC5171
D921-D928	22380260 or	RL1N4003 or	Q515,Q615	2202833 or	* 2SA1962-O or
	22380035	GP104003E		2202832	2SA1962-R
D929	224472704	MTZJ27D Zener	Q516,Q616	2202843 or	* 2SC5242-O or
Jumper leads				2202842	2SC5242-R
JL401a	25051113	NSCT-9P900	Q517,Q617,Q518,	2211354 or	2SA949-Y or
JL501a	25051112	NSCT-8P899	Q618	2211353	2SA949-O
JL502b	25055624	NPLG-3P586	Q519,Q619	2213631	RN1241-A
JL701b	25051836 or	NSCT-29P1623 or	Q591,Q691	2211733 or	2SC1845-E or
	25050969	NSCT-29P756		2211732	2SC1845-F
JL921a	25051088	NSCT-4P875	Q593	2211792 or	2SA992-E or
JL922b	25050271	NSCT-7P99		2211793	2SA992-F
JL101b	25050963 or	NSCT-23P750 or	Q595,Q596	2213284	2SC1740S-R
	25051830	NSCT-23P1617			
JL912a	25051109	NSCT-5P896			

REF. No.	PART No.	DESCRIPTION	REF. No.	PART No.	DESCRIPTION
Resistors			JL921b	25055625	NPLG-4P587
R467,R468	415421013	100 Ω $\pm$ 2%, 1/4W, Carbon	JL922a	25051111	NSCT-7P898
R519,R520,R619, R620	443521014	Δ 100 Ω $\pm$ 5%, 1/2W, Metal oxide	Control circuit PC board (NAAF-6361)		
R521,R522,R621, R622	4400044F	Δ 2.7k Ω $\pm$ 5%, 5W, Metal oxide	Capacitors		
R533,R538,R633, R638	453530104	Δ 1 Ω $\pm$ 5%, 1/2W, Metal	C421,C422	374722234	0.022 μ F $\pm$ 5%, 50V, Plastic
R534	5210255T	N06HR200BC, Trimming	C424	374721044	0.1 μ F $\pm$ 5%, 50V, Plastic
R535,R536,R545, R548,R636,R645, R648	443524704	Δ 47 Ω $\pm$ 5%, 1/2W, Metal oxide	C425,C426	374724724	4700pF $\pm$ 5%, 50V, Plastic
R537,R637	4500030	Δ MPC722-5WK-0.1, Metal plate	C427,C428	374722244	0.22 μ F $\pm$ 5%, 50V, Plastic
R539,R639	453630824	Δ 8.2 Ω $\pm$ 5%, 1/2W, Metal	C429,C430	374721054	1 μ F $\pm$ 5%, 50V, Plastic
R540,R640	453530334	Δ 3.3 Ω $\pm$ 5%, 1/2W, Metal	C431,C432	354780229	2.2 μ F, 50V, Elect.
R541,R641	443625614	Δ 560 Ω $\pm$ 5%, 1W, Metal oxide	Resistors		
R544,R644	5210258	N06HR1KBC, Trimming	R429,R435	5132447	N14RGLC10KA25F, Variable
R634	5210255	N06HR200BC, Trimming	R439	5142445	N16RGL20KBTP30F, Variable
Switches			R441	5132446	N14RGLC20KMN25F, Variable
S501	25065286	NSS-22112	Switches		
Jacks			S401	25035698	NPS-123-L661
P302,P303	25045565 or 25045508	NPJ-6PDBL380 or NPJ-6PDBL323	Others		
P304	25045356	NPJ-4PDBL202	JL401b	25050273	NSCT-9P101
Others			Speaker terminal PC board (NAETC-6362)		
P451a	25052137	NSCT-8P2035 Socket	Capacitors		
P531,P631	25055038	NPLG-2P29 Plug	C563,C564, C663,C664	374721034	0.01 μ F $\pm$ 5%, 50V, Plastic
P301	25045356	NPJ-4PDBL202 Pin jack	Diodes		
P923	72120080505	1007#24 .2/7HAND B	D581,D582	223163	1SS133
E921	260224	CP-1S Clamp	Terminals		
Sub power supply PC board (NAPS-6360)			P501	25060125	NTM-8PDMN058
Capacitors			Transistors		
C919,C920	354781009	10 μ F, 50V, Elect.	Q581,Q582	2213640	DTC123JS
C933	374721044	0.1 μ F $\pm$ 5%, 50V, Plastic	Relays		
Diodes			RL501,RL502	25065517	Δ NRL-2P5A-DC24-098
D911	22380281	RS604	Other		
D912	22380274 or 22380038	RS603M or RBV602	JL501b	25050272	NSCT-8P100
D912a	27160419	(SCR) Heat sink	Head phone PC board (NAETC-6363)		
D912b	838430107	3TTB+10S(BC), Self-tapping	Capacitors		
D913,D914	226065	SF8JZ47	C567,C568*B1,B,C	374721034	0.01 μ F $\pm$ 5%, 50V, Plastic
D915	22380012	HER303F	Terminal		
D916	223163	1SS133	P502	25045255	YKB26-5009 Jack
Transistors			Others		
Q594	2211792 or 2211793	2SA992-E or 2SA992-F	JL502a	25051087	NSCT-3P874
Q911	2211255	2SC1815-GR	Transformer PC board (NAETC-6364)		
Q912,Q914-Q916	2211455	2SA1015-GR	Capacitors		
ICs			C911-C914	374731044	0.1 μ F $\pm$ 5%, 100V, Plastic
Q917	22240293	NJM4558L-D	Resistors		
Resistors			R911,R912	453530224	Δ 2.2 Ω $\pm$ 5%, 1/2W, Metal
R923	4000116	Δ MPC74-5WK-0.1, Metal plate	Others		
R935	4000150	PTH9M04BC222TS2F333 Thermistor	JL911b	25050285	NSCT-8P113
Others			JL912b	25050282	NSCT-5P110
JL911a	25051112	NSCT-8P899	Display circuit PC board (NADIS-6365)		
			Capacitors		
			C701,C703,C707	355780109	1 μ F, 50V, Elect.
			C702	355741009	10 μ F, 16V, Elect.
			C704,C706,C710, C714,C719	354721019	100 μ F, 6.3V, Elect.
			Diodes		
			C709	375524744	0.47 μ F $\pm$ 5%, 50V, Plastic
			C712	3000076 or 3000078	EECS5R5T104 or DX-5R5L104
			Coils		
			D701	224470913	MTZJ9.1C Zener
			D702,D704,D706, D708,D710	223163	1SS133
			D707	224470562	MTZJ5.6B Zener
			Coils		
			L701-L703	233454M022	NCH-1452 022M

REF. No.	PART No.	DESCRIPTION	REF. No.	PART No.	DESCRIPTION
Fluorescent tube			Coils		
Q701	212194	13-ST-31GK FL tube	L101	233469	NFIF-4087
Q701a	27191056	(FL) Holder	L102	233470	NFIF-4088
Ics			L103*B1,B,C	232164	NMC-4082
Q705	22241255	MPD78044FGF-114	L105	231226	NMRF-7069
Transistors			L106	232166	NMIF-4089
Q704	2213284	2SC1740S-R	L107,L108	232165	NMC-4083
Q706	2213160	DTC124ES	Terminals		
Switches			P101*B1,B,C	25060117	NTM-2PDML051 Antenna
S703-S707,	25035675	NPS-111-111-S628	P101*AH	25060233	NTM-4PDML155 Antenna
S710-S721			P101a:B1,B,C	27150397	
Ceramic filter			P101a*AH	27150432	
X701	3010163	CST4.19MGW,Ceramic	Ics		
Others			Q121	22241076 or	LM7001J or
JL701a	25051873 or	NSCT-29P1660 or		22240090	LM7001
	25050935	NSCT-29P722 Socket	Q141	22240039	LA1266
JL702a	25051089	NSCT-5P876 wire holder	Q161	22240242	AN7470
			Q191*B1,B,C	22241124	BU1922
JL703a	25051090	NSCT-6P877	Transistors		
		wire holder	Q101,Q102	2215063	2SC2669-0
U701	24130011	PIC-12043TE2	Q103,Q104*B1,B,C	2215063	2SC2669-0
		Remote sensor	Q122,Q142,Q143	2213510 or	DTA114ES or
RF circuit PC board (NARF-6366)				2214350	RN2202
Capacitors			Q123	2212445	2SK365-GR
C127	354721019	100 μ F,6.3V,Elect.	Q124,Q162	2213284	2SC1740S-R
C101,C133,C163	354741019	100 μ F,16V,Elect.	Q171*B1,B,C	2213290 or	DTC114ES or
C164	354742209	22 μ F,16V,Elect.		2214230	RN1202
C162	354744709	47 μ F,16V,Elect.	Q172	2215196	2SK364-BL
C130,C155	354780229	2.2 μ F,50V,Elect.	Q173,Q174	2215024	2SD1468S-R
C174	354780339	3.3 μ F,50V,Elect.	Q175	2213510	DTA114ES
C156	354780479	4.7 μ F,50V,Elect.	Resistors		
C148,C154,C161,	354781009	10 μ F,50V,Elect.	R153	5210265	N06HR50KBC,Trimming
C167,C168			R165	5210266	N06HR100KBC,Trimming
C172	354782299	0.22 μ F,50V,Elect.	R176	5210261	N06HR5KBC,Trimming
C132	354783399	0.33 μ F,50V,Elect.	Frontend		
C146,C157,C173	355780109	1 μ F,50V,Elect.	U001*B1,B,C	240089	FE415-G11
C175	370134714	470pF $\pm$ 5%,100V,Plastic	U001*AH	240098	ENV172D1G1
C169,C170	374721024	1000pF $\pm$ 5%,50V,Plastic	Resonators		
*B1,B,C			X101	3010071	SFE-10.7MA5 RED
C176,C177	374721224	1200pF $\pm$ 5%,50V,Plastic	X191*B1,B,C	3010203	AF6146CG,Crystal
C169,C170*AH	374721524	1500pF $\pm$ 5%,50V,Plastic	X102*B1,B,C	3010071	SFE-10.7MA5 RED
C150*B1,B,C	374721534	0.015 μ F $\pm$ 5%,50V,Plastic	X103*AH	3010071	SFE-10.7MA5 RED
C131	374722234	0.022 μ F $\pm$ 5%,50V,Plastic	X103*B1,B,C	3010130	SFE10.7M2ZK
C150*AH	374722234	0.022 μ F $\pm$ 5%,50V,Plastic	X104	5671-7137C	BFU450C4N
C153	374724724	4700pF $\pm$ 5%,50V,Plastic	X105	3010123	SFZ450JL
C166	374724734	0.047 μ F $\pm$ 5%,50V,Plastic	X121	3010141	XTL-7.2M,Crystal OSC.
C178,C179	354781009	10 μ F,50V,Elect.	Others		
C192*B1,B,C	354780229	2.2 μ F,50V,Elect.	P141,P161	25055038	NPLG-2P29
C194,C196	354781009	10 μ F,50V,Elect.	Power supply PC board (NAPS-6367)		
*B1,B,C			Capacitors		
C195	374725614	560pF $\pm$ 5%,50V,Plastic	C951	354742219	220 μ F,16V,Elect.
Diodes			C902	3500191	DE7150F-103M
D102,D705	223163	1SS133	Diodes		
Sockets			D951-D954	22380032 or	1SR139-100 or
JL101a	25051867 or	NSCT-23P1654 or		22380260 or	RL1N4003 or
	25050929	NSCT-23P716		22380035	GP104003E
			D955	223163	1SS133
			Transistors		
			Q951	2213640	DTC123JS
			Resistors		
			R901*AH	431533355	Δ 3.3M Ω , 1/2W, Solid

REF. No.	PART No.	DESCRIPTION
Resistors		
RL901	25065515	 NRL-1P5A-DC12-096
R951	453530824	 8.2 Ω $\pm$ 5%, 1/2W, Metal
Transformers		
T902*B1,B,C	2300671A	 NPT-1111P, Power
T902*AH	2301258	 NPT-1294D, Power
Others		
F901a	25050065	YSH403T Fuse holder
F901b*AH	29360684	Fuse label
JL951a	25051107	NSCT-3P894
		Jumper lead
P901a	25055675	NPLG-2P631
		Plug for AC cord

NAD link PC board (NADG-6368)

Capacitors		
C751,C792	374721044	0.1 μ F $\pm$ 5%, 50V, Plastic
C753	354781099	0.1 μ F, 50V, Elect.
D751-D754	223163	1SS133
Ics		
Q751	222740005	74HC00P
Q752	22241266	Z86C0812PSC-R2536
Others		
L751	233454K220	NCH-1452 220K
P751	25045568	NPJ-2PDY383 Pin jack
JL703b	25055627	NPLG-6P589
JL951b	25050267	NSCT-3P95
X751	3010252	CST12.0MTW, Ceramic OSC.

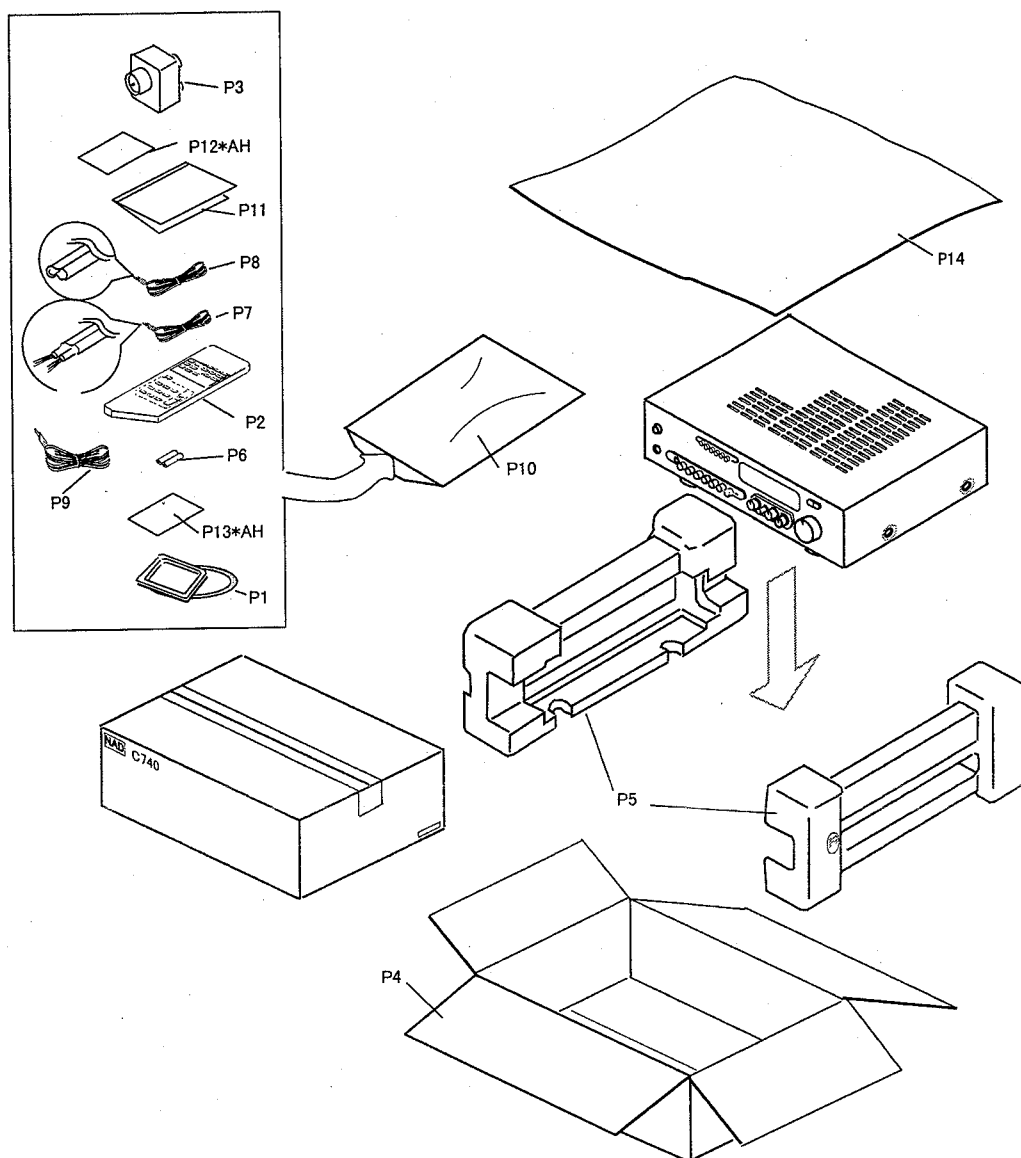
Power switch PC board (NASW-6369)

C901	3500191	 DE7150F-103M
C901a	27301216	 SB1925A Cover
S901	25035550	 NPS-111-L512P Switch

LED PC board (NAETC-6373)

D703	225292D	SEL4310G-D LED
JL702b	25051089	NSCT-5P876 Wire holder
S701,S702	25035675	NPS-111-111-S628
		Speakers switch

PACKING DIAGRAM



PARTS LIST

REF. No.	PART No.	Q'ty	DESCRIPTION
P1	232140	1	NMA-3057, AM loop antenna
P2	24140380S	1	RC-450S, Remote control
P3*AH	25065462	1	YAE21-0237, Antenna adapter
P4*AH	29053323	1	Carton box
P4*B1,B,C	29053353	1	Carton box
P5	29091858	1	Pad ass'y
P6	3010124	2	UM-4, Battery
P7*AH	292111	1	FM antenna
P8*B1,B,C	292112	1	FM antenna
P9	2010317	1	NAD link cable

REF. No.	PART No.	Q'ty	DESCRIPTION
P10	29100097-1A	1	350*250, Styrene bag
P11	29342608	1	Instruction manual
P12*AH	29355233	1	Instruction sheet
P13*AH	29365078	1	Warranty card
P14	29100034-1	1	Styrene bag

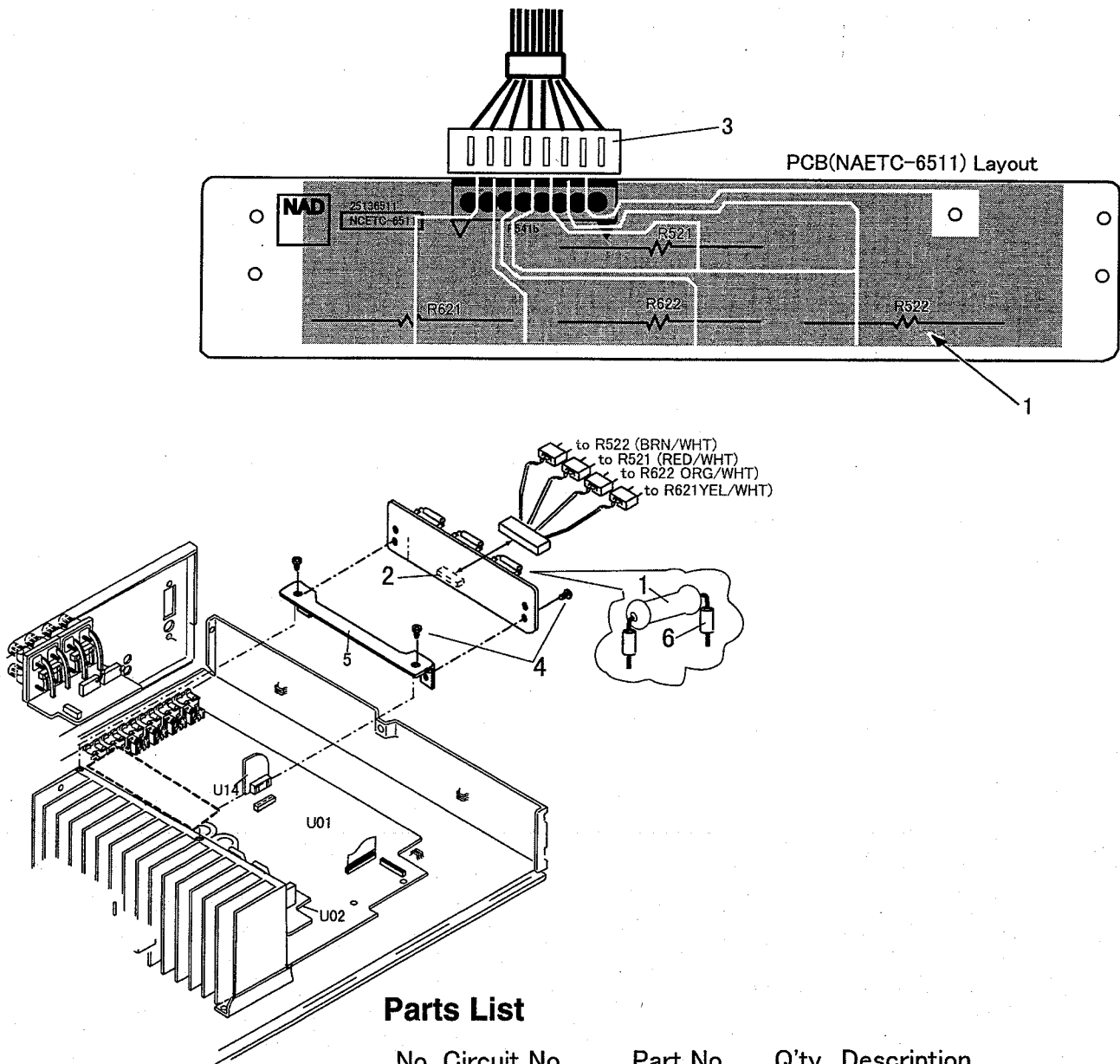
NOTE: <AH> : U.S.A., Canadian model only
 : U.K. model only
 <B1> : Australian model only
 <C> : European model only

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Running change Information

C740 have made a modification. Please refer following information and the serial numbers.

Serial number :	0877401001 ~ 0877401500 <AH>	500 sets
	0867400101 ~ 0867401000 <C>	900 sets
	0877401501 ~ 0877401600 <C>	100 sets
	0877401601 ~ 0877402500 <C>	900 sets



Parts List

No.	Circuit No.	Part No.	Q'ty	Description
1	R521,R522, R621,R622	4400043	4	1k ohm 5W Metal Oxide
2	P541b	25055138	1	Plug
3	P541	2009990526	1	Socket Ass'y
4		838130088	4	Screw 3TTB +8B
5		27141731	1	Retainer
6		79202	8	Tube L=15mm, 2.5Φ
7		25136511	1	PC Board