

SERVICE MANUAL

NAD

C 440

TUNER

C 440

TUNER

SERVICE SAFETY PRECAUTIONS

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 \triangle are critical with regard to the risk of fire and electric shock. Replace only with parts recommended by the manufacturer.

NOTE:

<*AH> : U.S.A., CANADIAN MODEL ONLY.

<*B1> : AUSTRALIAN MODEL ONLY.

<*C> : EUROPEAN MODEL ONLY.

<*B> : U.K. MODEL ONLY.

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SPECIFICATIONS

Test conditions

A: Power Supply Voltage & Frequency

AH Type ----- 120V / 60Hz
 C,B,B1 Type ----- 230V / 50Hz

B: Temperature & Humidity

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

C: Modulation

FM Mono 75.0kHz Deviation (Mod.=1kHz)
 Stereo L + R = 67.5kHz Deviation (Mod.=1kHz)
 Pilot = 7.5kHz Deviation (19kHz)
 RDS = 1.0kHz Deviation (57KHz) (B1,B,C)
 AM 400Hz, 30%

D: Reduce the following value from signal generator output readings

FM 75ohms ----- 0dB
 300ohms ----- -12dB
 AM Loop Antenna ----- -26dB

E: B/B1 type measurement is the same as C type unless otherwise notes.

F: Test point number in RF circuit means the following.

P141 ----- FM Detector
 P161 ----- FM Pilot

〔AM SECTION〕

Tuning Range

Fmin. AH / C, B, B1
 Fmax. AH / C, B, B1

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

	to 10kHz step	to 9kHz step
R737	10k ohm	5.6k ohm

Maximum Sensitivity

603, 990, 1404 kHz
 (600, 990, 1400)

60dB/m max.

Output=-30dBV

Usable Sensitivity

603, 990, 1404 kHz
 (600, 990, 1400)

15dB min.

Input=60dB/m

Sensitivity Inbalance

15dB max.

S/N

Image Rejection Ratio

1404/1400kHz

28dB min.

Usable sensitivity

IF Rejection Ratio

600/603kHz

40dB min.

Selectivity

990±9kHz

24dB min.

Signal to Noise Ratio

990kHz

40dB min.

Input=100dB/m

Fixed Output Level

990kHz

100mV min.

Input=100dB/m

T.H.D.

990kHz

1.5% max.

Input=100dB/m

〔FM SECTION〕

Tuning Range

Fmin.
 Fmax.

87.5 MHz
 106.0 MHz

Freq. Step(Manual:25KHz)
 Auto:AH/C, B, B1=100/50KHz

Usable Sensitivity

87.5,98,108 MHz

30dB min.

Input=12dB μV

Sensitivity Inbalance

8dB max.

Usable Sensitivity

3dB Limited Sensitivity

98MHz

6dB μV max.

IF Rejection Ratio

90MHz

70dB min.

Selectivity

98MHz

40/65dB min.

(AH/ C,B,B1)

Signal to Noise Ratio

98MHz

64dB min.

Input=60dB μV

Fixed Output Level

98MHz

750±250mV

Input=60dB μV

Output L/R Inbalance

Fixed Output

C,B,B1
 AH

550±200mV

Rec-Out Terminal

T.H.D.

98MHz

mono
 stereo

2dB max.

Input=60dB μV

0.7% max.

1.7% max.

〔FM STEREO〕

MPX Separation

98MHz

30dB min.

Input=60dB mod.=1kHz

Blend

98MHz

13±3dB

Input=60dB mod.=1kHz

(L/R Separation at Blend ON)

Capture Ratio

98MHz

3.5dB max.

Input=60dB

AM Suppression Ratio

98MHz

45dB min.

Input=60dB

Auto Stop Threshold

990kHz

0 dB/m max.

98MHz

23±3 dB

Stereo Indi. Threshold

98MHz

23±3 dB

Tuned Indi. Threshold

98MHz

23±3 dB

Tuned Switching Width

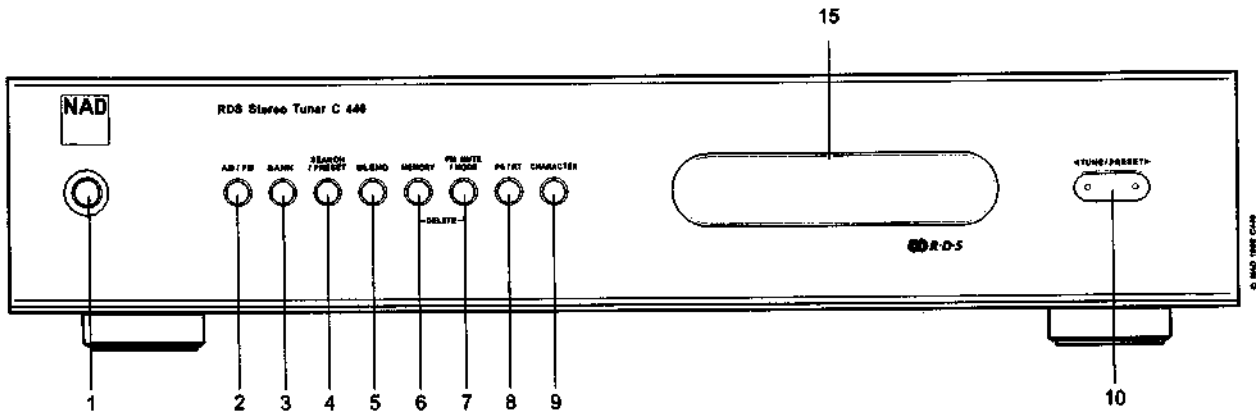
98MHz

35±10kHz



Input=60dB μV

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

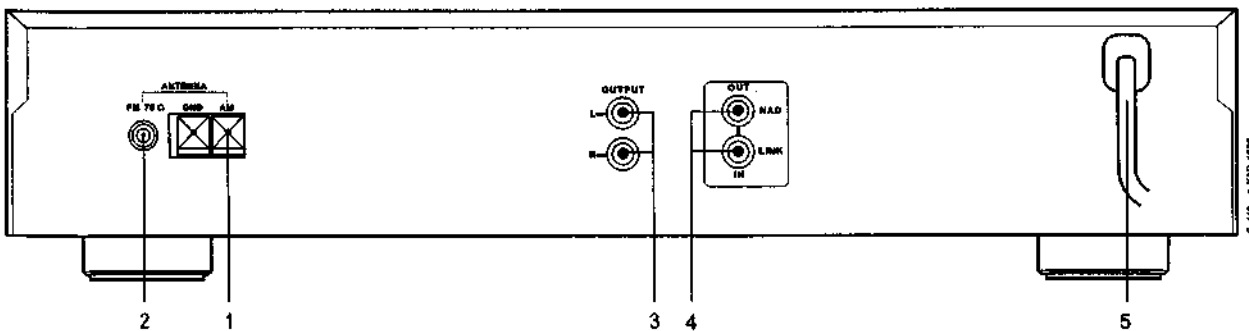
FRONT PANEL CONTROLS



- | | | | |
|-------------------|--------------------|---|---------------------------|
| 1. Power on / off | 4. Search / Preset | 7. FM Mute / Mode | 10. Tune / Preset ◀ AND ▶ |
| 2. AM/FM | 5. Blend | 8. PS / RT (for RDS version) or Display (for non-RDS version) | 15. Display panel |
| 3. Bank | 6. Memory | 9. Character | |

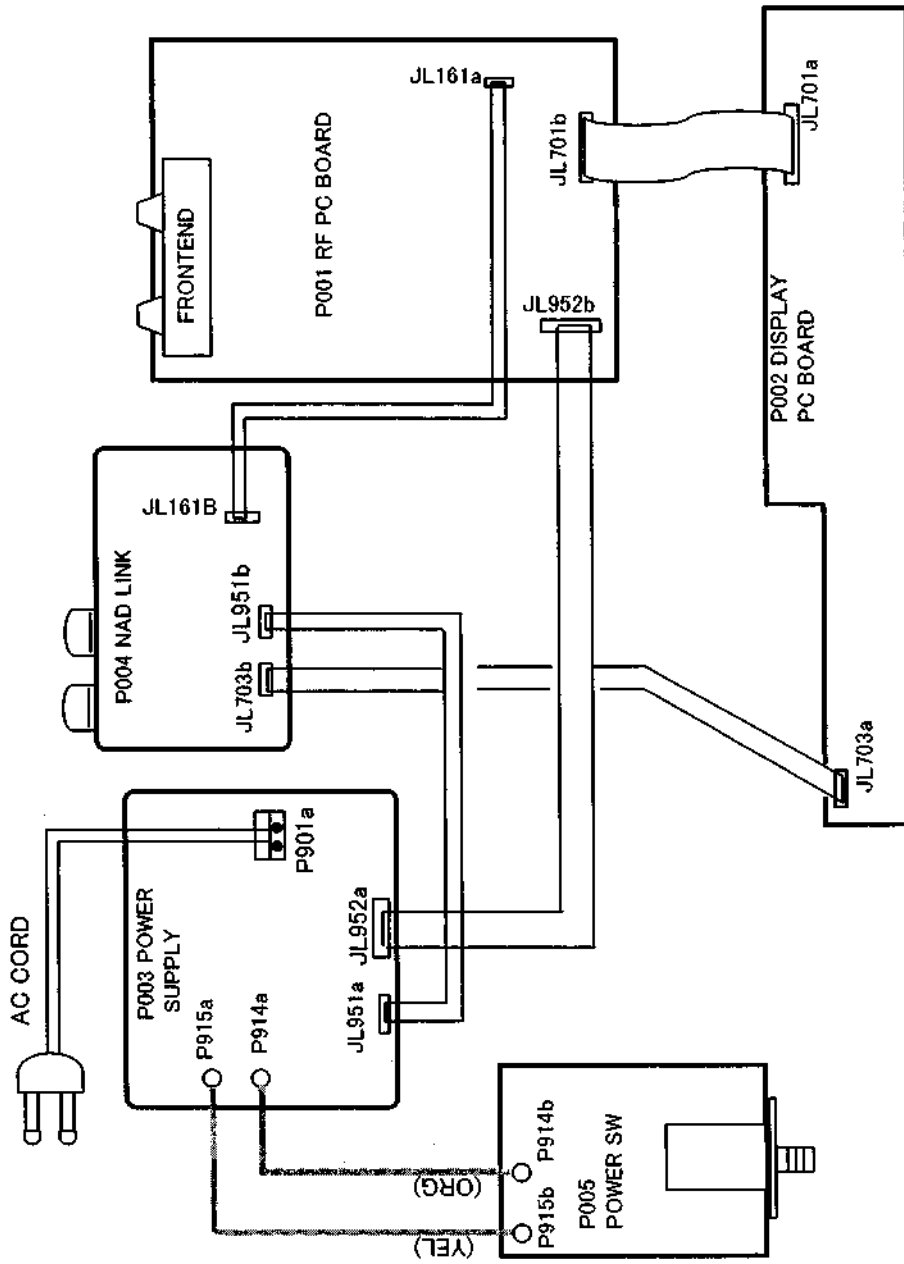
 <p>The lightning flash with arrowhead, within an equilateral triangle is intended to alert the user of the presence of uninsulated "dangerous voltage" within the product's enclosure; that may be of sufficient magnitude to constitute a risk of electric shock to persons.</p>	 <p>The exclamation point within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



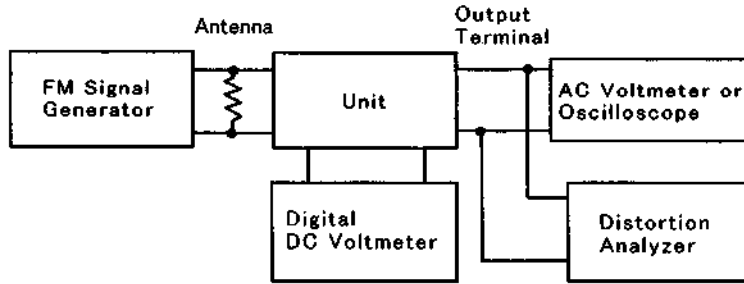
- | | |
|---------------|--------------------|
| 1. AM Antenna | 4. NAD-Link in out |
| 2. FM Antenna | 5. AC line cord |
| 3. Output | |

WIRING DIAGRAM

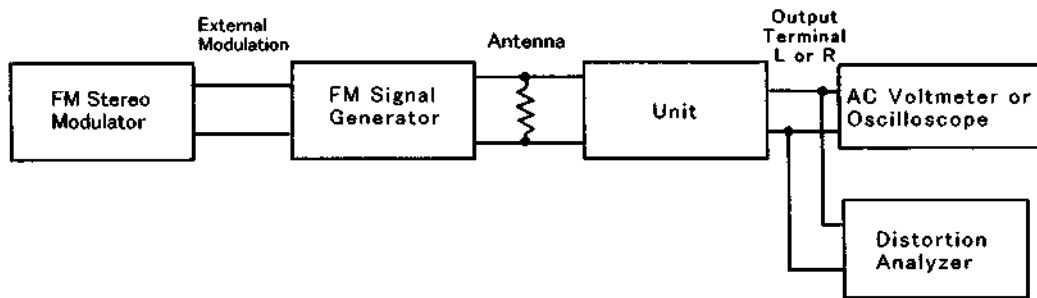


CONNECTION OF INSTRUMENTS

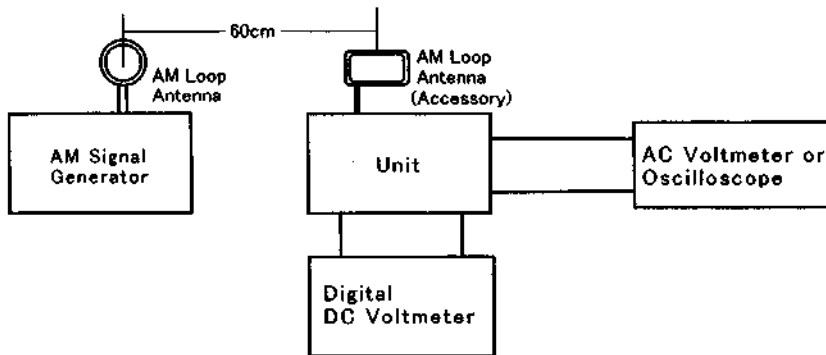
FM ADJUSTMENT



FM STEREO ADJUSTMENT



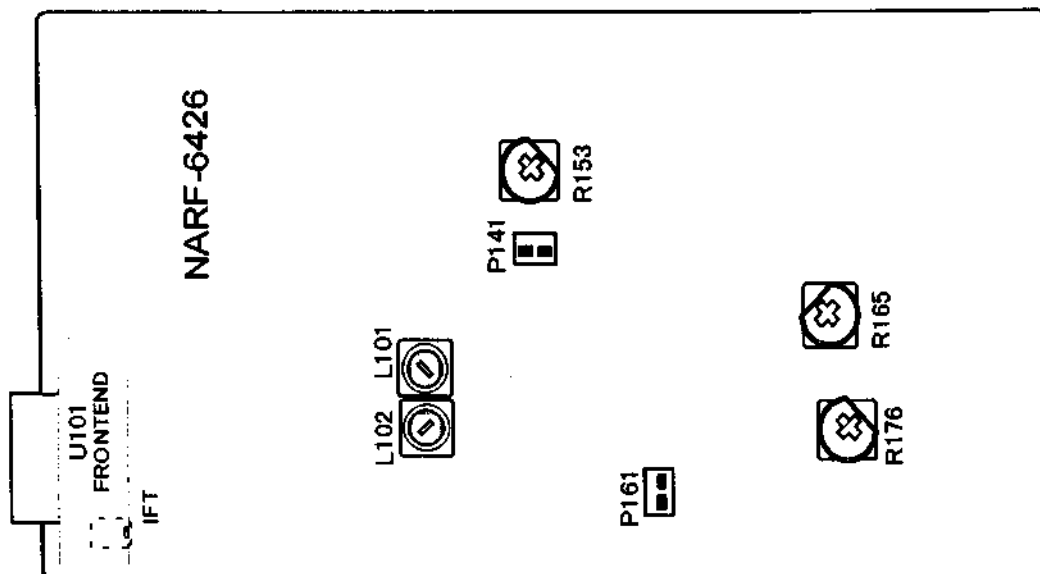
AM MEASUREMENT



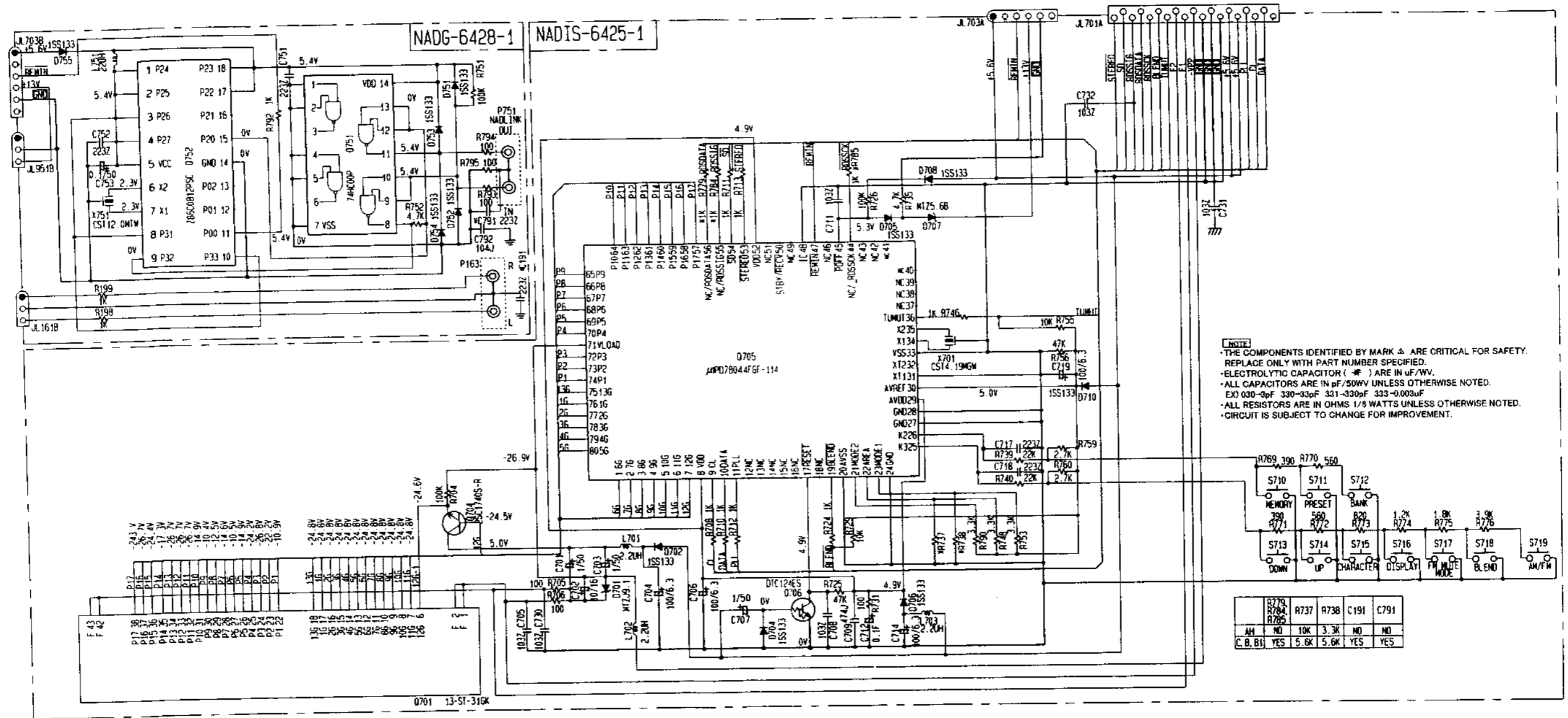
ADJUSTMENTS AND ALIGNMENT POINTS

1. ADJUSTMENT OF FM BAND

- a. Set the unit's frequency to 99.0MHz.
- b. Connect a DC volt meter with P141.
- c. Set FM MUTE/MODE SW to stereo.
- d. Set SSG(Standard Signal Generator) frequency to 99.0MHz, output to 60dB μ V and connect to 75 ohm FM antenna terminal.
- e. Turn the core of L101(NFIF-4087) so that the voltage can be within ± 20 mV.
- f. Turn the core of L102(NFIF-4088) so that mono distortion goes minimum.
- f. Repeat above items(e & f) a few times.
- h. Connect a Frequency counter with P161.
- i. Turn R176 so that the frequency can be within 19kHz \pm 10Hz.
- j. Set the output of SSG to stereo.
- k. Turn IFT in the frontend(U101) within ± 180 degrees so that stereo distortion can be minimum.
- l. Adjust R165 and get maximum stereo separation.
- m. Set SSG output to 16dB μ V.
- n. Adjust R153 so that STEREO indicator turns ON. As an optional method, judging by wave form is admitted.
- o. Repeat above items(m and n) a few times.



SCHEMATIC DIAGRAM(PART-1 DISPLAY SECTION)

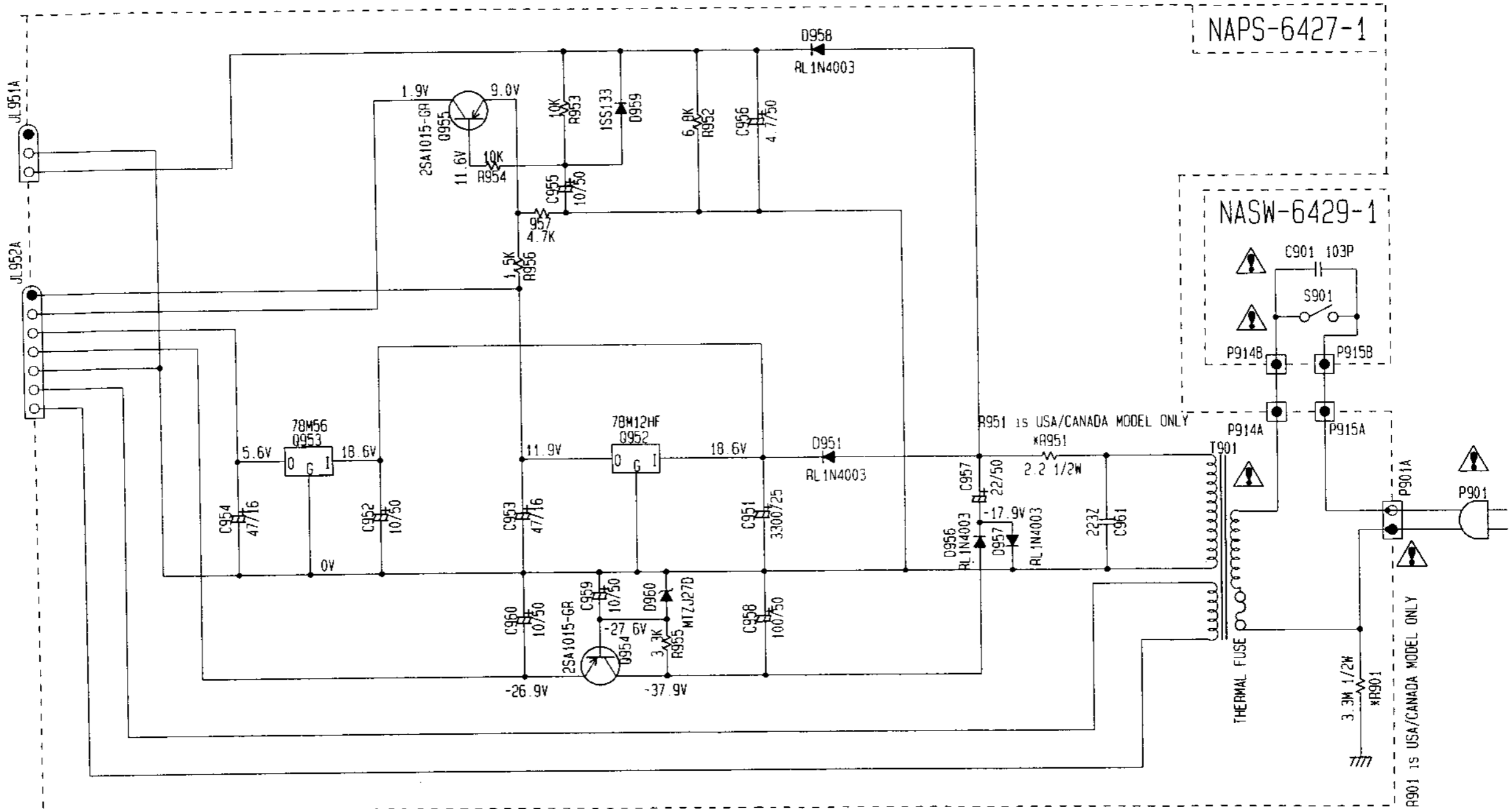


NOTE
 • THE COMPONENTS IDENTIFIED BY MARK Δ ARE CRITICAL FOR SAFETY. REPLACE ONLY WITH PART NUMBER SPECIFIED.
 • ELECTROLYTIC CAPACITOR ($\#$) ARE IN μ F/WV.
 • ALL CAPACITORS ARE IN pF/50WV UNLESS OTHERWISE NOTED.
 EX) 030-3pF 330-33pF 331-330pF 333-0.003 μ F
 • ALL RESISTORS ARE IN OHMS 1/8 WATTS UNLESS OTHERWISE NOTED.
 • CIRCUIT IS SUBJECT TO CHANGE FOR IMPROVEMENT.

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R779	R784	R785	R737	R738	C191	C791
10K	10K	3.3K	NO	NO	NO	NO
C.B.B1	YES	5.6K	5.6K	YES	YES	YES

SCHEMATIC DIAGRAM(PART-2 POWER SUPPLY SECTION)



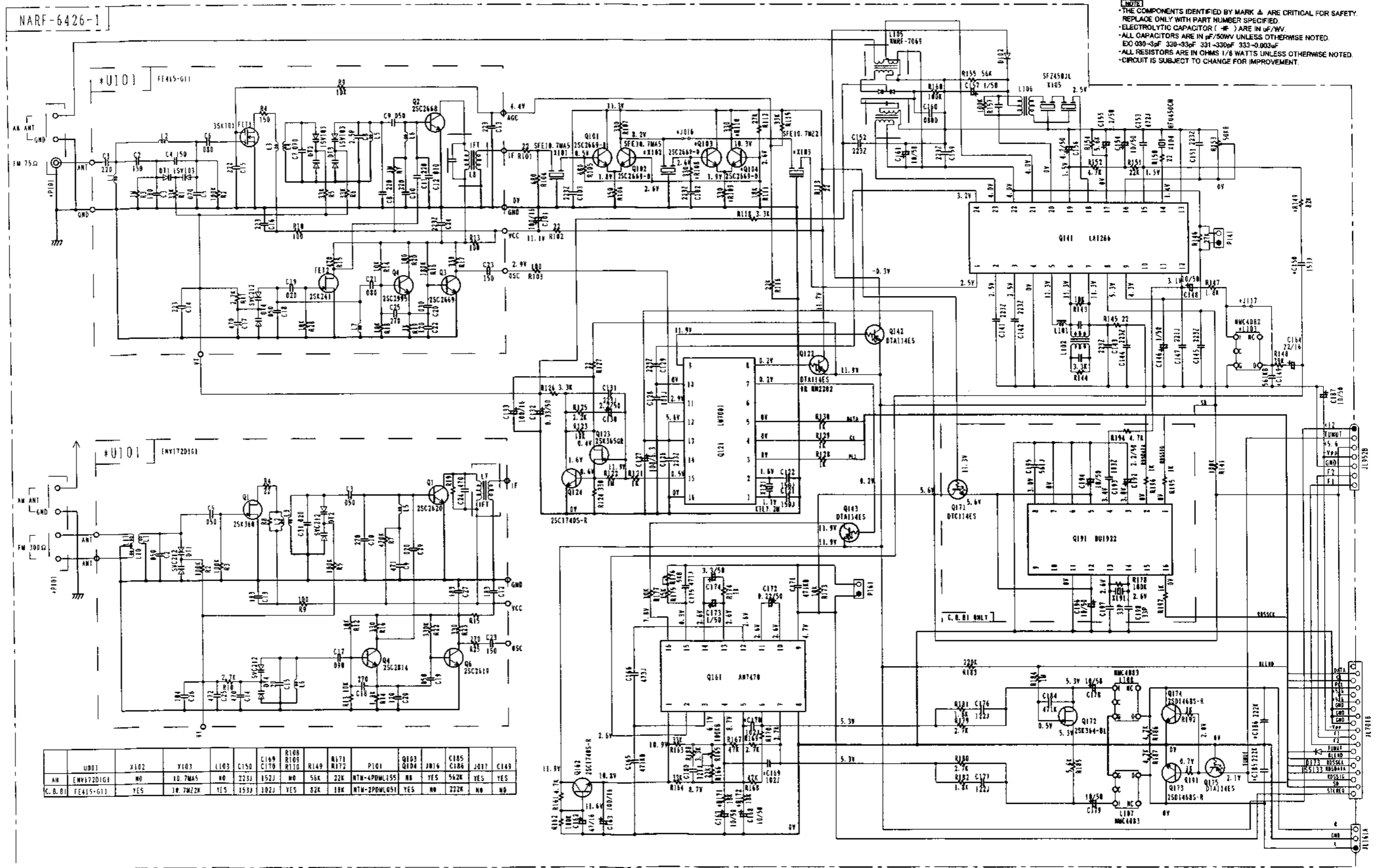
NOTE

- THE COMPONENTS IDENTIFIED BY MARK Δ ARE CRITICAL FOR SAFETY. REPLACE ONLY WITH PART NUMBER SPECIFIED.
- ELECTROLYTIC CAPACITOR ($\text{—} \text{||} \text{—}$) ARE IN $\mu\text{F/WV}$.
- ALL CAPACITORS ARE IN $\text{pF}/50\text{V}$ UNLESS OTHERWISE NOTED.
EX) 030-3pF 330-33pF 331-330pF 333-0.003 μF
- ALL RESISTORS ARE IN OHMS 1/8 WATTS UNLESS OTHERWISE NOTED.
- CIRCUIT IS SUBJECT TO CHANGE FOR IMPROVEMENT.

CAUTION
 FOR CONTINUED PROTECTION AGAINST FIRE HAZARD, REPLACE ONLY WITH FUSE OF SAME TYPE AND RATING INDICATED.

ATTENTION
 AFIN D'ASSURER UNE PROTECTION PERMANENTE CONTRE LES RISQUES D'INCENDIE, REMPLACER UNIQUEMENT PAR UN FUSIBLE DE MEME TYPE ET CALIBRATION COMME INDIQUE

SCHEMATIC DIAGRAM(PART-3 RF,RDS SECTION)



MICROPROCESSOR TERMINAL DESCRIPTION

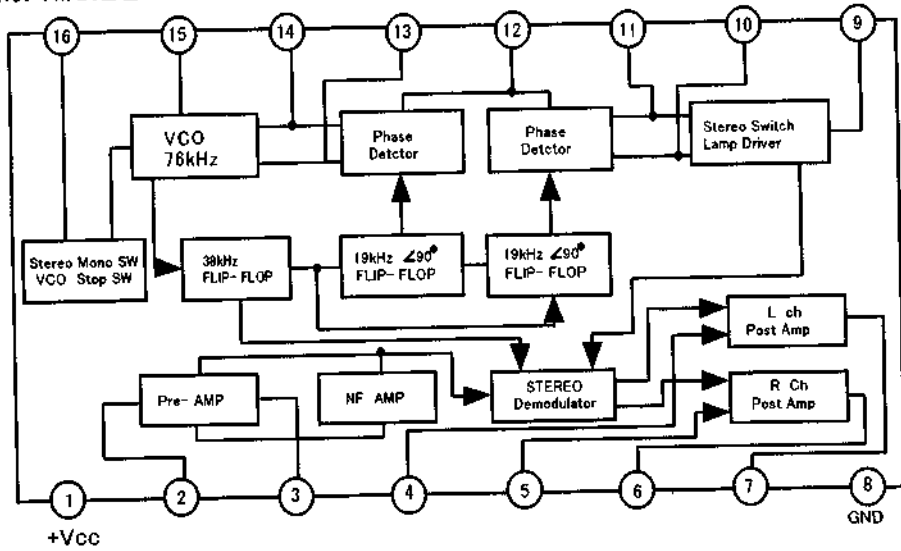
Q705: μ PD78044FGF

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 Q121(LM7001).
11	PLL	O	Chip enable output pin for PLL IC(Q121).
12			NC
16			NC
17	RESET	I	System reset input pin.
18			NC
19	BLEND	O	Output pin for blend controlled signal.
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-erea)
23	MODE1	I	Initializing input of operation mode.
24	GND	I	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 (+B)
30	AVREF	-	Reference voltage input pin.
31	XT1	-	Crystal connection pin for sub system clock resonator. (to ground)
32	XT2	-	Crystal connection pin for sub system clock resonator. (open connection)
33	VSS	-	Ground pin.
34	X1		Crystal connection pin for main system clock resonator.
35	X2		Crystal connection pin for main system clock resonator. Connect the ceramic osc.(4.19MHz)
36	TUMUT	O	Muting output pin.
37			NC
43			NC
44	RDSSCK	I	To connecting the SKC terminal of IC191(RDS -modulator).
45	POFF	I	Power stoppage detector input pin.
46			NC
47	REMIN	I	Remote-control signal input pin.
48	IC	-	Internal connection pin. Connect to the ground terminal.
49			NC
50			NC
51			NC
52	VDD		Power supply pin (+5V).
53	STEREO		Detector input pin of FM stereo broadcast.
54	SD		Detector input pin of broadcast more than muting level.
55	RDSSIG		When RDSSEN=1: to connect the SIG-port of IC 191.
56	RDSDATA		When RDSSEN=1: to connect the DATA-port of IC 191.
57	P18/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	P4/P1	O	Segment output pins. On at the high level.
74			
75	12G/1G	O	Grid output pins. On at the high level.
80			

IC BLOCK DIAGRAM

Q161 FM STEREO MULTIPLEX DEMODULATOR

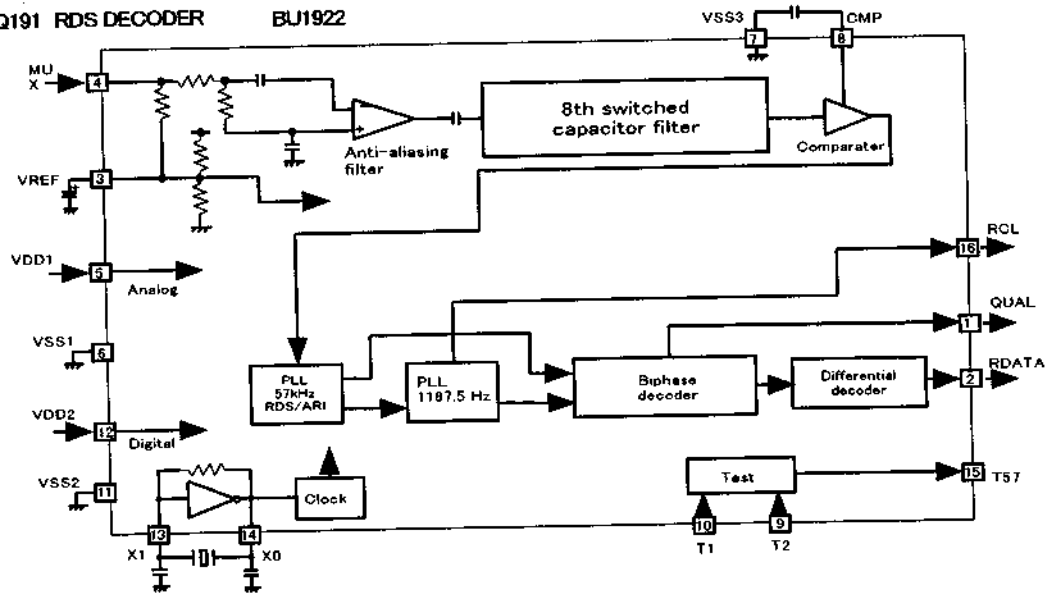
AN7470



- | PIN No. | PIN NAME |
|---------|---|
| 1 | Vcc |
| 2 | Composite signal input |
| 3 | Buffer Amp. output |
| 4 | L-ch,Amp.feedback |
| 5 | R-ch,Amp. feedback |
| 6 | R-ch,Amp.output |
| 7 | L-ch,Amp.output |
| 8 | Ground |
| 9 | Stereo indicator and VCO freq. monitor. |
| 10,11 | Pilot signal input |
| 12 | Pilot detection low-pass filter |
| 13 | PLL low-pass filter |
| 14 | PLL low-pass filter |
| 15 | VCO RC time constant |
| 16 | Forced Mono. VCO killer |

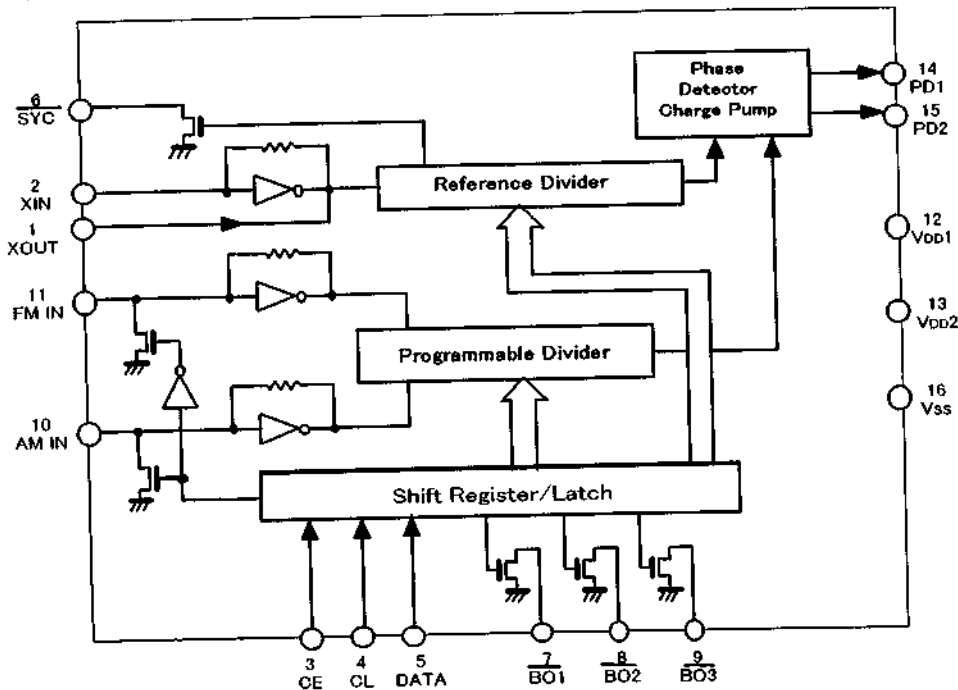
Q191 RDS DECODER

BU1922

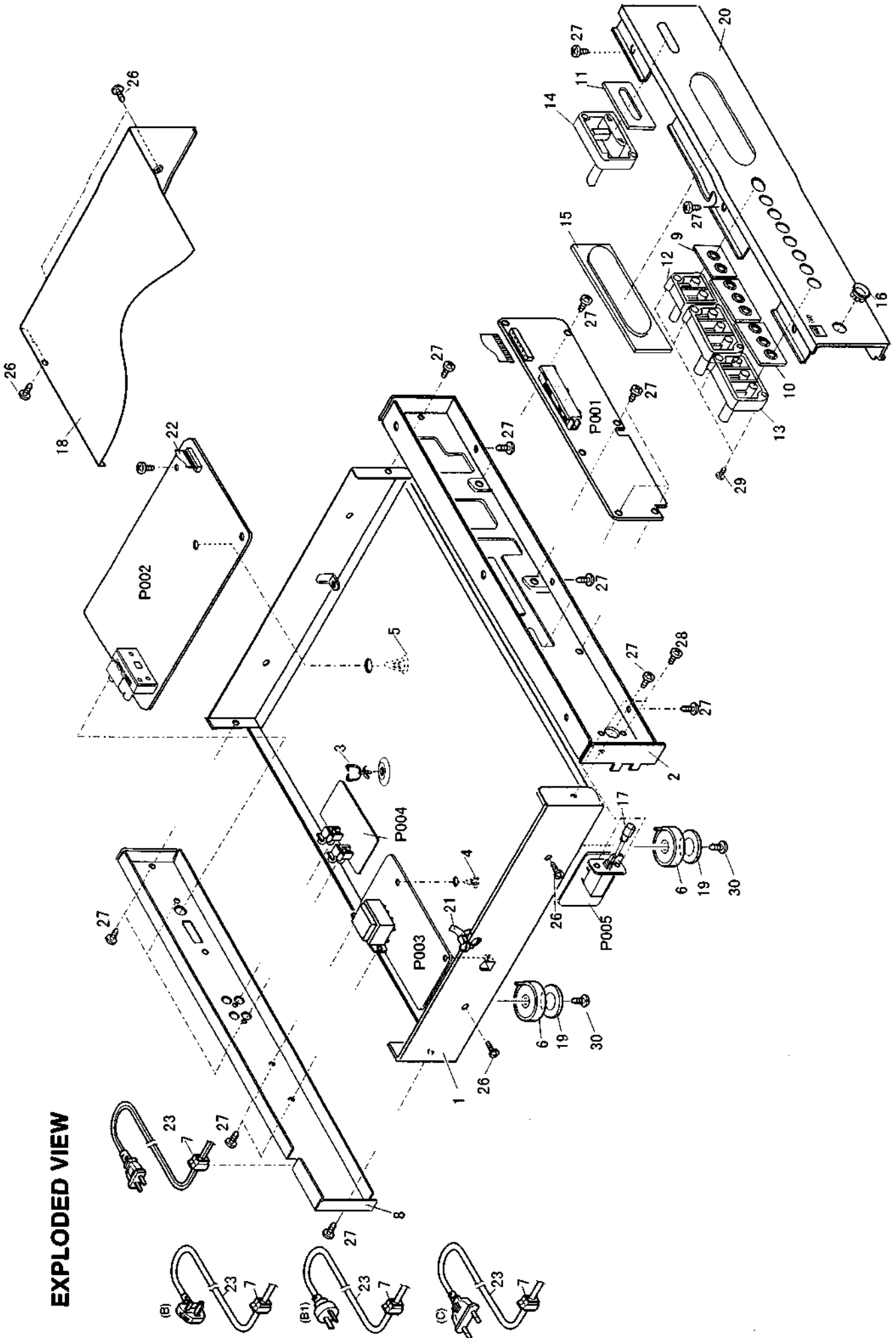


Q121 PLL SYNTHESIZER AND CONTROLLER

LM7001



EXPLODED VIEW



EXPLODED VIEW PARTS LIST

Ref.No.	Part No.	Q'ty	Description	Ref.No.	Part No.	Q'ty	Description
1	27100365A	1	Chassis	18	28184593A	1	Top cover 414AH
2	27111083	1	Front bracket	19	28141378	4	Cushion
3	27301778	1	Clamp HL-18-0(V-0)	20*B1,B,C	27212041	1	Front panel
4	27190266	1	Holder KGLS-12RF	20*AH	27212012	1	Front panel
5	27190511	1	Holder KGLS-16RF	21	260208	1	Binder(CLAMPER) UL
6	27175306	4	Leg base	22	2047191512	1	Flexible flat cable NCF7-191512
7	27300750	1	△ AC cord bushing S-RELIEF #2271	23*B1	253197HIT	1	△ AC cord AS-SAA <B1>
8*B1	27122497	1	Rear panel	23*B	253198HIT	1	△ AC cord AS-BS
8*B	27122497	1	Rear panel	23*C	253193HIT	1	△ AC cord AS-GEE <C>
8*C	27122497	1	Rear panel	23*AH	253192HIT	1	△ AC cord AS-UC-6#18(SPT-2) <AH>
8*AH	27122496	1	Rear panel	26	838430088	6	Self tapping screw 3TTB+8B(BC) for Cover
9	27267996	1	Guide (duo) DUO.BEZEL	27	838130088	26	Self tapping screw 3TTB+8B
10	27267997	2	Guide (Trio) TRIO.BEZEL	28	838430107	2	Self tapping screw 3TTB+10S(BC) Power SW
11	27267998	1	Guide (Racker) RACKER.BEZEL	29	838120068 or 838220068	8	Screw bind 2TTB+6B or 2TTB+6B(Ni)
12	28325605	1	Button (Duo) DUO.BUTTONS.	P001*AH	1A788525-1A	1	NADIS-6425-1A Display PCB Ass'y
13	28325606	2	Button (Trio) TRIO.BUTTONS.	P002*AH	1A788526-1A	1	NARF-6426-1A Tuner PCB Ass'y
14	28325607	1	Button (Racker) RACKER.BUTTONS	P003*AH	1A788527-1A	1	NAPS-6427-1A Power supply PCB Ass'y
15	28191831	1	Clear plate (window) 424/724-1012-B	P004*AH	1A788528-1A	1	NADG-6428-1A NAD link PCB Ass'y
16	27267995	1	Guide (power) POW.BTN.BEZEL.	P005*AH	1A788529-1A	1	NASW-6429-1A Switch PCB Ass'y
17	28325604	1	Button(power)	P001*B1,B,C	1A788525-1B	1	NADIS-6425-1B Display PCB Ass'y
				P002*B1,B,C	1A788526-1B	1	NARF-6426-1B Tuner PCB Ass'y
				P003*B1,B,C	1A788527-1B	1	NAPS-6427-1B Power supply PCB Ass'y
				P004*B1,B,C	1A788528-1B	1	NADG-6428-1B NAD link PCB Ass'y
				P005*B1,B,C	1A788529-1B	1	NASW-6429-1B Switch PCB Ass'y

NOTE: THE COMPONENTS IDENTIFIED BY MARK △ 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

ELECTRICAL PARTS LIST

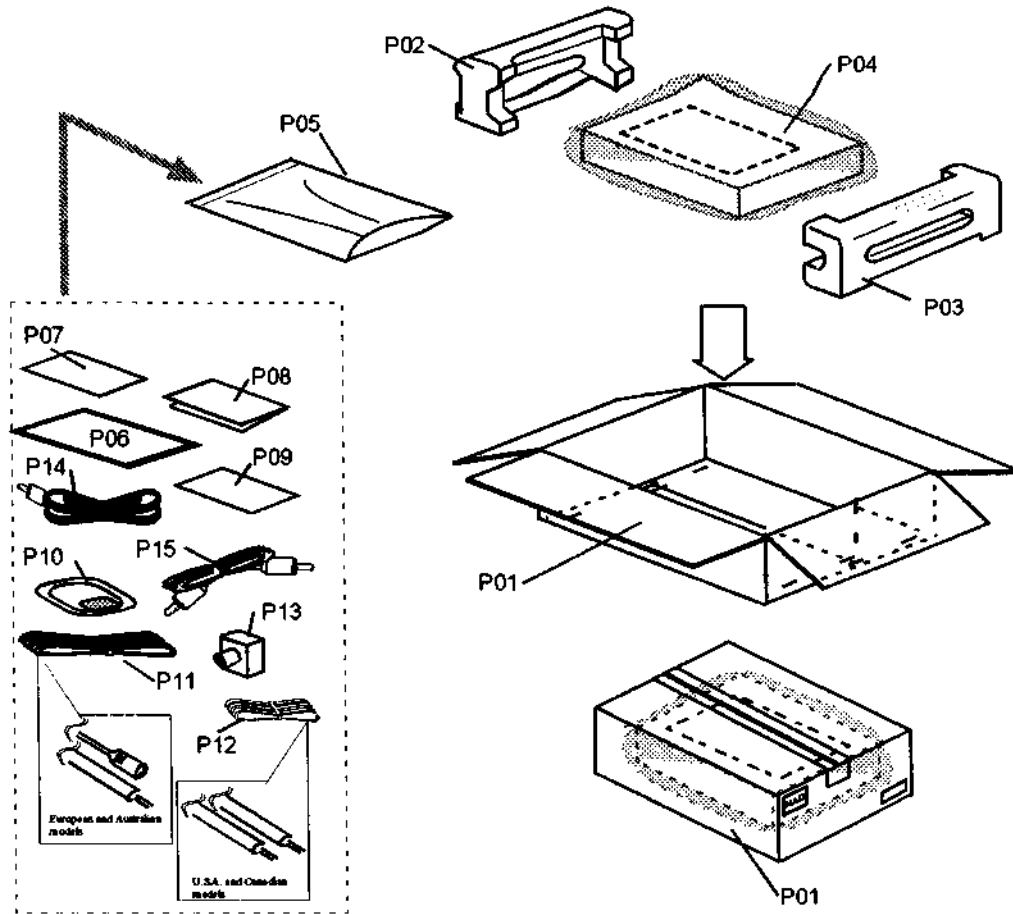
CIRCUIT No.	PART. No.	DESCRIPTION	CIRCUIT No.	PART. No.	DESCRIPTION
P002: Tuner PC Board (NARF-6426)					
Capacitors					
C101,C127,C133, C183	354741019	100 μ F,16V Elect.			
C130,C155,C192	354780229	2.2 μ F,50V Elect.			
C131	374722234	0.022 μ F,50V Plastic.			
C132	354783399	0.33 μ F,50V Elect.			
C148,C157,C173	354780109	1 μ F,50V Elect.			
C148,C154,C161, C167,C168,C178, C179,C187,C194, C196	354781009	10 μ F,50V Elect.			
C150*AH	374722234	0.022 μ F,50V Plastic.			
C150*B1,B,C	374721534	0.015 μ F,50V Plastic.			
C153	374724724	4700pF,50V Plastic.			
C158	354780479	4.7 μ F,50V Elect.			
C162	354744709	47 μ F,16V Elect.			
C164	354742209	22 μ F,16V Elect.			
C166	374724734	0.047 μ F,50V Plastic.			
C169,C170*AH	374721524	1500pF,50V Plastic.			
C169,C170*B1,B,C	374721024	1000pF,50V Plastic.			
C172	354782299	0.22 μ F,50V Elect.			
C174	354780339	2.2 μ F,50V Elect.			
C175	370134714	470pF,100V Plastic.			
C178,C177	374721224	1200pF,50V Plastic.			
C195	374725614	580pF,50V Plastic.			
Diodes					
D102,D173	223163	1SS133			
Coils					
L101	233469	NFIF-4087 IF Trans			
L102	233470	NFIF-4088 IF Trans			
L103*B1,B,C	232164	NMC-4082 MPX Coil			
L105	231226	NMRF-7069 RF Coil			
L106	232166	NMIF-4089 IF Trans			
L107,L108	232185	NMC-4083 MPX Coil			
L701,L702,L703	233454M022	NCH-1452 022M Choke			
Terminals					
P101*AH	25060233	NTM-4PDML155 Antenna			
P101*B1,B,C	25060117	NTM-2PDML051			
P101a*AH	27150397	Shield plate			
P101a*B1,B,C	27150432	Shield plate			
P141,P161	25055038	NPLG-2P29 Terminal			
ICs					
Q121	22241076 or 22240090	LM7001J or LM7001			
Q141	22240039	LA1266			
Q161	22240242	AN7470			
Q191	22241124	BU1922			
Transistors					
Q101,Q102	2215063	TR 2SC2668-0			
Q103,Q104*B1,B,C	2215063	TR 2SC2668-0			
Q122,Q142,Q143	2213510 or 2214350	DTA114ES or RN2202			
Q123	2212445	2SK365-GR			
Q124,Q162	2213284	2SC1740S-R			
Q171	2213290 or 2214230 or 2214230	DTC114ES or RN1202 or RN1202			
Q172	2215196	2SK364-BL			
Q173,Q174	2215024	2SD1488S-R			
Q175	2213510	DTA114ES			
Resistors					
R153	5210265	N06HR50KBC Trim			
R165	5210266	N06HR100KBC Trim			
R176	5210281	N06HR5KBC Trim			
Frontends					
U001*B1,B,C	240089	FE415-G11			
U001*AH	240098	ENV172D1G1			
Resonators					
X101,X102	3010071	SFE-10.7MA5 RED Ceramic filter			
X103*B1,B,C	3010130	SFE10.7MZ2K Ceramic filter			
X103*AH	3010071	SFE-10.7MA5 RED Ceramic filter			
X105	3010123	SFZ450JL Ceramic filter			
X121	3010141	XTL-7.2M Ceramic filter			
X104	5671-7137C	BFU450C4N Ceramic filter			
X191	3010203	AF6146CG Crystal OSC.			
Others					
JL181a	25051107	NSCT-3P894 Wire holder			
JL701b	25051826 or 25050959	NSCT-19P1613 or NSCT-19P746 Socket			
P001: Display PC Board (NADIS-6425)					
Capacitors					
C709	375524744	0.47 μ F,50V Plastic			
C706	355721019	100 μ F,6.3V elect.			
C702	355741009	10 μ F,16V elect.			
C701,C703	355780109	1 μ F,50V elect.			
C712	3000076	EECS5R5T104 EDL 0.1 μ F			
Diodes					
D701	224470913	MTZJ9.1C			
D702,D704-	223163	1SS133			
D707	224470562	MTZJ5.6B			
D708,D710	223163	1SS133			
Others					
JL701a	25051863 or 25050925	NSCT-19P1650 or NSCT-19P712 Socket			
JL703a	25051090	NSCT-6P877 Wire holder			
FL Tube					
Q701	212194	13-ST-31GK			
IC					
Q705	22241255 or 22241256	μ PD78044FGF-114 or μ PD78P048AGF-(724)			
Transistors					
Q704	2213284	2SC1740S-R			
Q706	2213160	DTC124ES			
Switches					
S710-S719	25035675	NPS-111-111-S628			
Resonator					
X701	3010163	CST4.19MGW Ceramic filter			

CIRCUIT No.	PART. No.	DESCRIPTION
P003: Power Transformer PC Board (NAPS-6427)		
Capacitors		
C704,C714,C719	354721019	100 μ F, 8.3V Elect.
C953,C954	354744709	47 μ F, 18V Elect.
C707	354780109	1 μ F, 50V Elect.
C956	354780479	4.7 μ F, 50V Elect.
C952,C955, C958-C960	354781009	10 μ F, 50V Elect.
C957	354782209	22 μ F, 50V Elect.
C951	354753329	3300 μ F, 25V Elect.
Diodes		
D958	22380260 or	RLIN4003 or
D951,D957,D956	22380032 or	1SR139-100 or
	22380035	GP104003E
D959	223163	1SS133
D960	224472704	MTZJ27D Zener
Ics		
Q952	222780125	78M12HF
Q953	222780565JR	78M56(NJM78M56FA)
Q952a	27160209	Heat sink(RAD-67)
Q952b	838430107	3TTB+10S(BC) Screw
Transistors		
Q954,Q955	2211455	2SA1015-GR
Power Transformers		
T901*B1,B,C	2301359	△ NPT-1350P
T901*AH	2301358	△ NPT-1350D
Resistors		
R901*AH	431533355	△ RC1/2GFKUL-3.3M Solid
R951*AH	453530224	△ RNU1/2WCJ-2.2 Metal
Others		
JL951a	25051107	NSCT-3P894 Wire holder
JL952a	25051111	NSCT-7P898 Wire holder
P901a	25055675	NPLG-2P831 Plug (AC
Q701a	27191056	Holder (FL)

CIRCUIT No.	PART. No.	DESCRIPTION
P004: NAD link PC Board (NADG-6428)		
Capacitors		
C753	354781099	0.1 μ F, 50V Elect.
C792	374721044	0.1 μ F, 50V Plastic
Diodes		
D751-D755	223163	1SS133
ICs		
Q751	222740005	74HC00P
Q752	22241266	Z88C0812PSC-R2536
Coil		
L751	233454K220	NCH-1452 220K Choke coil
Resonator		
X751	3010252	CST12.0MTW
Pin jacks		
P163	25045333 or	NPJ-2PDBL185 or
	25045461	NPJ-2PDBL282
P751	25045568	NPJ-2PDY383 NAD link
Sockets		
JL181b	25050267	NSCT-3P95
JL951b	25050267	NSCT-3P95
JL952b	25050271	NSCT-7P99
Others		
JL703b	25055627	NPLG-6P589 Plug

P005: Switch PC Board (NASW-6429)		
C901a	27301216	SB1925A Capacitor's cover
C901	3500191	△ DE7150F-103M IS capacitor
S901	25035550	△ NPS-111-L512P Power Switch

PACKING DIAGRAM



PARTS LIST

Ref.No.	Part No.	Q'ty	Description	Ref.No.	Part No.	Q'ty	Description
P01*B1,B,C	29053351	1	Carton C440	P10	232140	1	Antenna coil NMA-3057
P01*AH	29053321	1	Carton C440	P11*B1,B,C	292112	1	FM antenna AS (connect type)
P02	29091692	1	Pad (L)	P12*AH	292111	1	FM antenna AS
P03	29091693	1	Pad (R)	P13*AH	25065462	1	FM adapter YAE21-0237 (300 ohm to 75 ohm)
P04	29100037-1	1	Polybag	P14	2010317	1	NAD link cable
P05	29100097-1A	1	Polybag 350*250 for instruction manual	P15	2010244 or 2010326	1	Pin cord AS
P06	29342610	1	Instruction manual U7(424)				
P07*B	29355233	1	Instruction sheet				
P08*AH	29355233	1	Instruction sheet				
P09*AH	29365078	1	Warranty card				

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

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