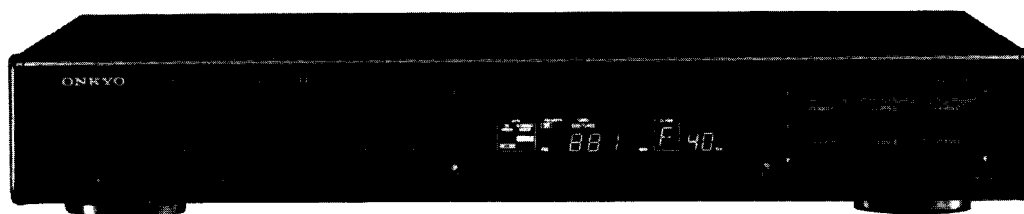


ONKYO SERVICE MANUAL

SYNTHESIZED FM STEREO/AM TUNER MODEL T-4010



Black model

BMDN, BMD	120V AC, 60 Hz
BMPT	230V AC, 50Hz
BMW	120/220 V AC, 50/60Hz

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK Δ ON THE SCHEMATIC DIAGRAM AND IN THE PARTS LIST ARE CRITICAL FOR RISK OF FIRE AND ELECTRIC SHOCK. REPLACE THESE COMPONENTS WITH ONKYO PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL.

MAKE LEAKAGE-CURRENT OR RESISTANCE MEASUREMENTS TO DETERMINE THAT EXPOSED PARTS ARE ACCEPTABLY INSULATED FROM THE SUPPLY CIRCUIT BEFORE RETURNING THE APPLIANCE TO THE CUSTOMER.

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ONKYO
AUDIO COMPONENTS

SPECIFICATIONS

FM:

Tuning Range:	87.9-107.9MHz(200kHz steps: U.S.A. model) 87.5-108.0MHz(50kHz steps: 230V model) 87.9-107.9MHz(200kHz steps) or 87.5-108.0MHz(50kHz steps) (Worldwide model)
Usable Sensitivity:	Mono: 11.2dBf, 1.0 μ V IHF 0.9 μ V 75ohms DIN Stereo: 2.0 μ V 75ohms Mono: 11.2dBf, 2.0 μ V IHF (120V model) Stereo: 17.2dBf, 4.0 μ V (120V model)
50dB Quieting Sensitivity:	Mono: 1.7 μ V 75ohms Stereo: 1.7 μ V 75ohms Mono: 16.1dBf, 3.5 μ V (120V model) Stereo: 36.1dBf, 35 μ V (120V model)
Capture Ratio:	1.5dB
Image Rejection Ratio:	40dB (120V model) 80dB (Other models)
IF Rejection Ratio:	90dB
Signal-to-Noise Ratio:	Mono: 73dB Stereo: 66dB
Alternate Channel Attenuation:	50dB IHF ($\pm$ 400kHz) (120V model)
Selectivity:	55dB DIN ($\pm$ 300kHz, 40kHz dev.) (Other models)
AM suppression Ratio:	50dB

Total Harmonic Distortion: Mono: 0.1%

Stereo: 0.2%

Frequency Response: 30-15,000Hz $\pm$ 1.5dB

Stereo Separation: 40dB at 1kHz

30dB at 70-10,000Hz

Muting Level: 2.0 μ V, 75ohm

17.2dBf, 4.0 μ V

Output Voltage: 500mV (120V model)

750mV (Other models)

AM:

Tuning Range: 530-1710kHz(10kHz steps) (U.S.A. model)

522-1611kHz(9Hz steps) (230V model)

530-1620kHz(10kHz steps) or

531-1602kHz(9kHz steps) (Worldwide model)

Usable Sensitivity: 25 μ V

Image Rejection Ratio: 40dB

IF Rejection Ratio: 40dB

Signal-to-Noise Ratio: 40dB

Harmonic Distortion: 0.8%

Output voltage: 150mV

GENERAL:

Dimensions(W×H×D): 455 × 75.5 × 306mm

17-15/16" × 2-15/16" × 12-1/16"

Weight: 3.4kg., 7.5 lbs.

Specifications and features are subject to change without notice.

SERVICE PROCEDURES

1. Safety-check out

(Only U.S.A. model)

After correcting the original service problem,perform the following safety check before releasing the set to the customer.

Connect the insulating-resistance tester between the plug of power suuply cord and chassis.

Specifications: 3.3Mohm $\pm$ 10% at 500V.

2. Memroy preservation

This unit does not require memory preservation batteries.

A built-in memory power back-up system preserves contents of the memory during power failures and even when the unit is unplugged. The unit must be plugged in and the power switch turned on and off once in order to charge the back-up system. Note that since this is not a permanent memory,the power switch must be turned on and off a few times each month to keep the back-up system operative. The period of time during which memory contents are preserved after power has last been turned off varies depending on climate and placement of the unit.

On the average, memory contents are protected over a period of 3 to 4 weeks (a minimum of 2 weeks) after the last time power has been turned off. This period is shorter when the unit is exposed to very high humidity or used in an area with an extremely humid climate.

3. Voltage Selector (Back Panel)

W models are equipped with a voltage selector to conform with local power supplies. Be sure to set this switch to match the voltage of the power supply in your area before turning the power switch on. This switch is set to 220V at the factory. Voltage is changed by sliding the groove in the switch with a screwdriver to the right or left. Confirm that the switch has been moved all the way to the right or left before turning the power switch on. Models without a voltage selector can only be used in areas where the power supply is the same as that of the unit.

4. Tuning Step Frequency Switch (Back Panel)

W models are equipped with a switch for the AM (9kHz/10kHz) and FM (50kHz/100kHz) bands. The switch should be set to the proper steps for the radio broadcast frequencies in your area.

5. Changing the band step

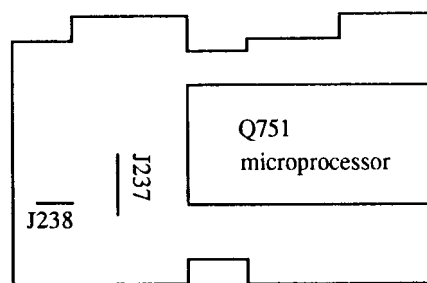
With the exception of the models below, a BAND STEP selector switch is not provided.

FM

MODEL	BAND STEP	J273
UD	200kHz $\rightarrow$ 50kHz	Open
UP/UQ	50kHz $\rightarrow$ 200kHz	Short

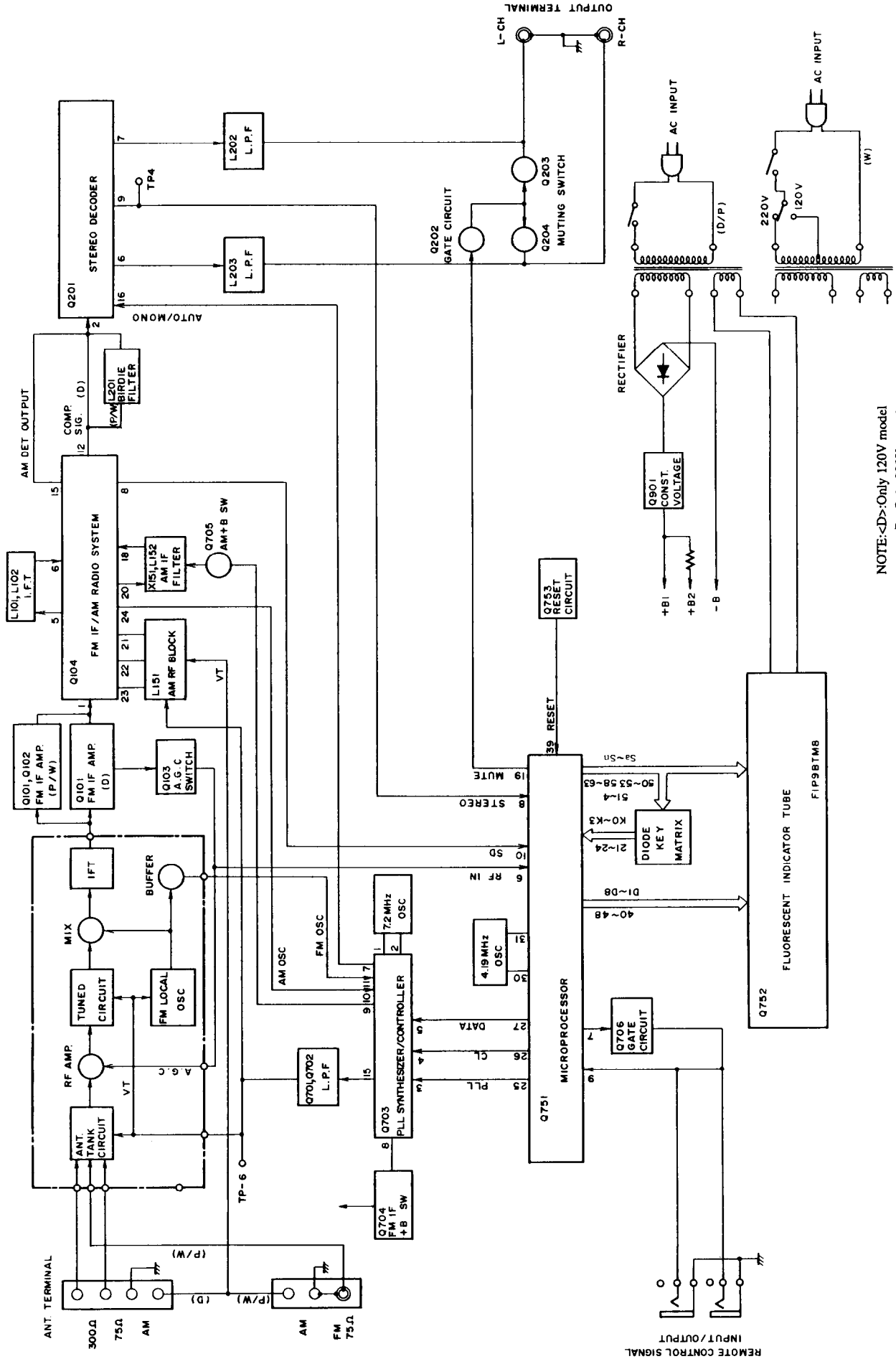
AM

MODEL	BAND STEP	J238
UD	10kHz $\rightarrow$ 9kHz	Short
UP/UQ	9kHz $\rightarrow$ 10kHz	Open



DISPLAY CIRCUIT PCB

BLOCK DIAGRAM



NOTE: <D>: Only 120V model
 <P>: Only 230V model
 <W>: Only Worldwide model



PARTS LIST

REF.NO.	PART NO.	DESCRIPTION	REF.NO.	PART NO.	DESCRIPTION
A1	27110678Y	Front bracket	P901	253173Y or 253142A	AS-UC-7 #18,Power supply cord Δ <D>
A5	28191579A	Clear plate		253164Y or 253175Y	AS-CEE,Power supply cord Δ <P/W>
A8	27100230BY	Chassis	S902	25065123	NSS-1258P, Voltage selector switch <W>
A9	27190511	KGLS-16R,Holder	U1	1A339598-3 1A339598-3A 1A339598-3B	NARF-4098-3,Main circuit pc board ass'y <D> NARF-4098-3A,Main circuit pc board ass'y <P> NARF-4098-3B,Main circuit pc board ass'y <W>
A10	27141468	Bracket,power		1A339599-3 1A339599-3A 1A339599-3B	NADIS-4099-3,Display circuit pc board ass'y <D> NADIS-4099-3A,Display circuit pc board ass'y <P> NADIS-4099-3B,Display circuit pc board ass'y <W>
A11	27122002Y 27122038Y 27122039Y	Back panel <D> Back panel <P> Back panel <W>	U2	1A339500-3 1A339501-3 1A339501-3A 1A339501-3B	NASW-4100-3,Operation switch pc board ass'y <D> NAPS-4101-3,Power supply circuit pc board ass'y <D> NAPS-4101-3A,Power supply circuit pc board ass'y <P> NAPS-4101-3B,Power supply circuit pc board ass'y <W>
A12	27300750	Δ Bushing	U3		
A13	28324140	Knob,power	U4		
A14	27260294	Joint,power			
A16	838130088	3TTB+8B,Self-tapping screw			
A17	831130088	3TTW+8B,Self-tapping screw			
A18	833430080	3TTP+8P(BC),Self-tapping screw			
A21	82143006	3P+6FN(BC),Pan head screw <W>			
A22	82143006	3P+6FN(BC),Pan head screw			
A23	838430088	3TTB+8B(BC),Self-tapping screw			
A31	28184474	Top cover			
A32	28140837	0.9×250×10,Cushion			
A51	1A569121Y 28125230-9Y 28125231-9Y	Front panel ass'y End cap L End cap R			
A61	27175292Y	Leg			

NOTE: <D>:120V model only

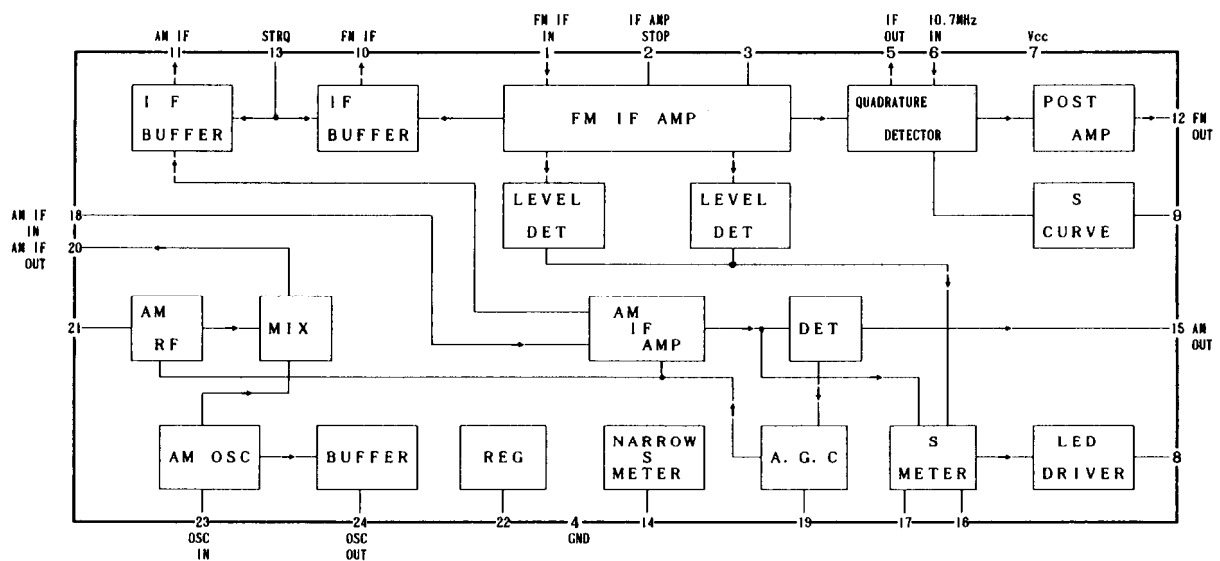
<P>:230V model only

<W>:Worldwide model only

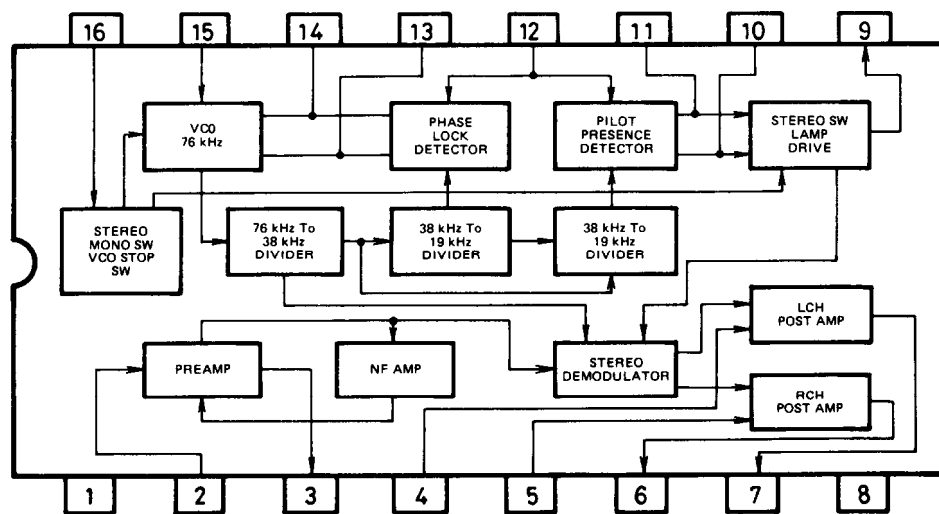
NOTE: THE COMPONENTS IDENTIFIED BY MARK Δ
ARE CRITICAL FOR RISK OF FIRE AND
ELECTRIC SHOCK. REPLACE ONLY WITH
PART NUMBER SPECIFIED.

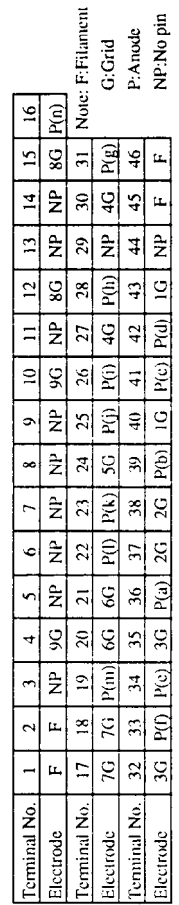
BLOCK DIAGRAM OF IC

LA1266 (FM IF/AM radio system)



AN7470 (FM stereo decoder)





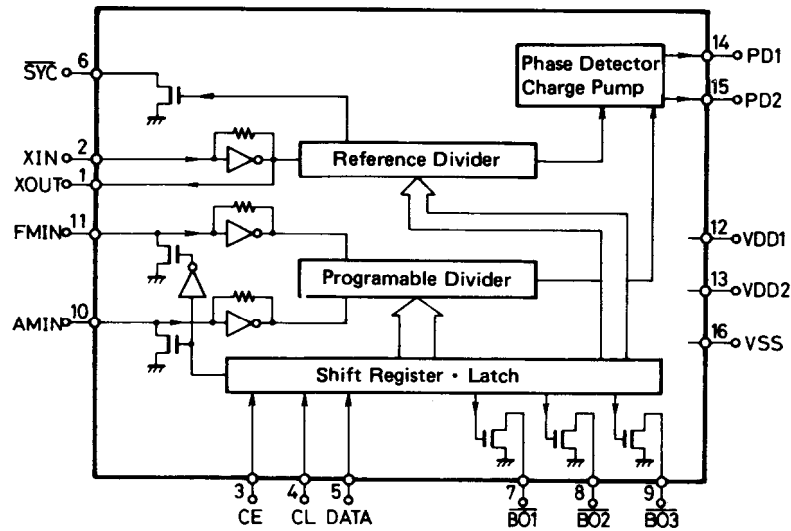
BAND1	BAND0	REGION	BAND	FREQUENCY RANGE	CHL. SPACE
0	0	U.S.A.	FM	87.50-108.00MHz	50kHz
			AM	530-1710kHz	10kHz
0	1	EUROPE 1	FM	87.50-108.00MHz	50kHz
			AM	522-1611kHz	9kHz
1	0	EUROPE 2	FM	87.50-108.00MHz	50kHz
			AM	531-1602kHz	9kHz
1	1	JAPAN	FM	76.0-90.0MHz	100kHz
			AM	522-1611kHz	9kHz

Terminal Descriptions

Pin No.	Symbol	Description						
1	Sd							
2	Sc	Segment and key scan output terminals.						
3	Sb	"H" when active.						
4	Sa							
5	POFF	This is the input terminal for detection of the stoppage of electric current. "L" when the stoppage of electric current.						
6	RF IN	RF mode input terminal. <table><tr><td>RF IN</td><td>RF MODE</td></tr><tr><td>L</td><td>LOCAL</td></tr><tr><td>H</td><td>DX</td></tr></table>	RF IN	RF MODE	L	LOCAL	H	DX
RF IN	RF MODE							
L	LOCAL							
H	DX							
7	SYS OUT/ SYS EN	System code output terminal. "L" when active. Initializing input terminal when the power turns on.						
8	STEREO	Stereo broadcast detection input terminal. "L" when stereo broadcast.						
9	SYS IN	System code input terminal. "H" when active.						
10	SD	Broadcast detection input terminal. "L" when active. Control the stop of auto tuning and output TU MUT(#19).						
11	NOISE	Noise detection input terminal. Not used.						
12	PROTECT	Protection circuit operation detection input terminal. Not used.						
13	POWER	Power control output terminal. Not used.						
14	RELAY	Speaker relay control output terminal. Not used.						
15	PHONO	Phono control output terminal. Not used.						
16		Not used.						
17	MODE	Initializing input terminal for operation mode setting.						
18	MODEL	Initializing input terminal for model setting of receiver.						
19	TU MUT	Muting output terminal. "H" when active.						
20	SEL MUT	Audio muting output terminal. Not used.						
21	K0							
22	K1	Key scan input terminals.						
23	K2	"H" when active.						
24	K3							
25	PLL	Connect to the terminal CE of PLL IC(LM7001 Q703).						
26	CL	Connect to the terminal CL of PLL IC(LM7001 Q703).						
27	DATA	Connect to the terminal DATA of PLL IC(LM7001 Q703).						
28	SEL	Not used.						

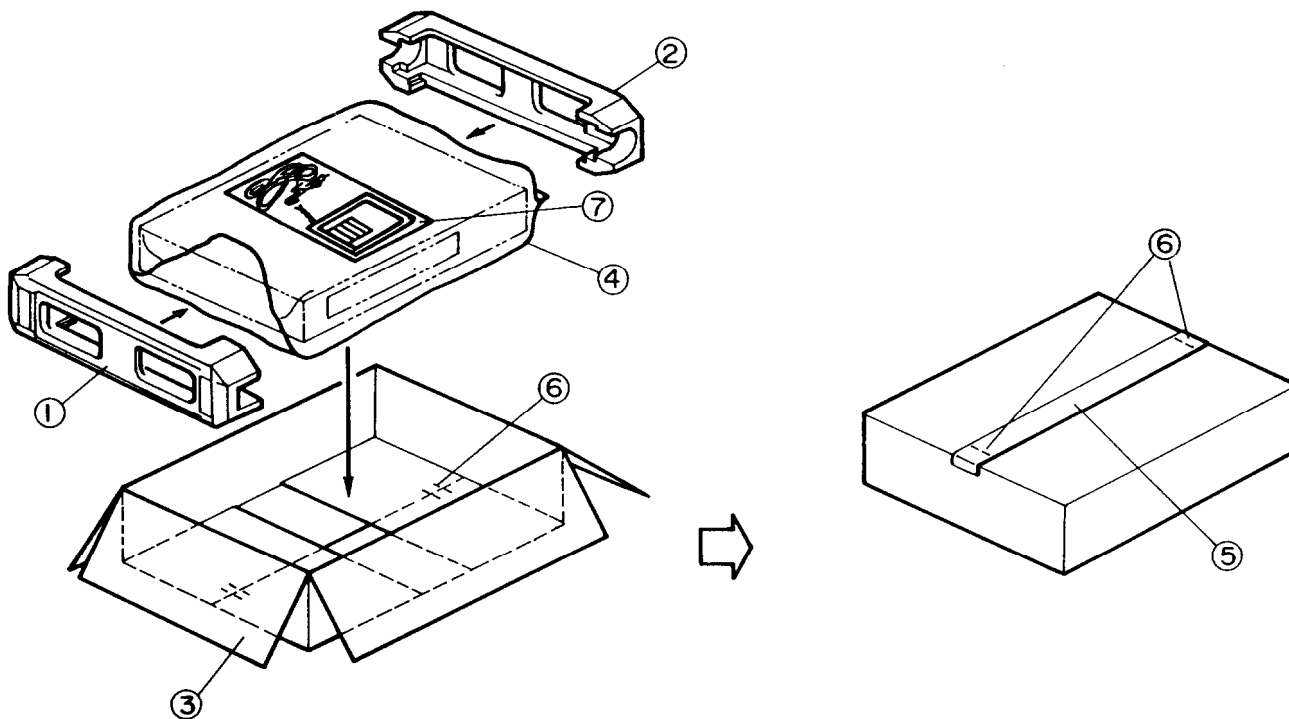
Pin No.	Function	Description
29	IC	Internal connected.
30	X1	Ceramic oscillator connection terminal for main system clock.
31	X2	Connect to the 4.19MHz ceramic oscillator.
32	VSS	Ground terminal.
33	XT1	Ceramic oscillator connection terminal for sub system clock.
34	XT2	Not used.
35	BAND0	Initializing input terminal for region setting of FM band.
36	BAND1	
37	AM 10K	Initializing input terminal for region setting of AM band.
38	PRESET	Initializing input terminal for operation mode setting.
39	RESET	Reset input terminal. "L" when active.
40	D1	
41	D2	
42	D3	
43	D4	
44	D5	
45	D6	
46	D7	
47	D8	
48	D9	
49		Not used.
50	Sn	
51	Sm	Segment output terminals. "H" when active.
52	Sl	
53	Sk	
54	S.TONE	SELECTIVE TONE indication output terminal. Not used.
55	S.TONE	SELECTIVE TONE control output terminal. Not used.
56	VLOAD	Pull-down resistor connection terminal of FIP controller/driver.
57	VPRE	Power supply terminal of output buffer of FIP controller/driver.
58	Si	
59	Si	
60	Sh	Segment and key scan output terminals.
61	Sg	"H" when active.
62	Sf	
63	Se	
64	VDD	Power supply terminal.(+5V)

LM7001 (PLL frequency synthesizer)



Pin No.	Terminal	Description									
1	XOUT	Connect to the 7.2 MHz crystal oscillator.									
2	XIN										
3	CE	Chip enable terminal. Connect to the PLL terminal of microprocessor μ PD75268CW-025 .									
4	CL	Serial clock input terminal. Connect to the CLOCK terminal of microprocessor μ PD75268CW-025.									
5	DATA	Serial data input terminal. Connect to the DATA terminal of microprocessor μ PD75268CW-025.									
6	SYN	Not used.									
8	BAND1	Band selector output terminal. <table border="1"><tr><td>BAND</td><td>BAND 1</td><td>BAND 2</td></tr><tr><td>FM</td><td>L</td><td>H</td></tr><tr><td>AM</td><td>H</td><td>L</td></tr></table>	BAND	BAND 1	BAND 2	FM	L	H	AM	H	L
BAND	BAND 1		BAND 2								
FM	L		H								
AM	H	L									
9	BAND2										
7	BO1	This is the output terminal for AUTO/MONO. 'L' when AUTO.									
10	AMIN	AM local oscillator input terminal.									
11	FMIN	FM local oscillator input terminal.									
12	VDD 1	Power supply terminal for back-up.									
13	VDD 2	Power supply terminal.									
14	PD1	Charge pump output of the phase detector which constitutes the PLL. High level is output when the divided local oscillator frequency is high than the reference frequency. In the opposite case, low level is output. Floating occurs when the frequencies matched. The output is applied to the variable capacitor diode in the local oscillator through the low pass filters.									
15	PD2										
16	Vss	Ground terminal.									

PACKING VIEW



REF.NO.	PART NO.	DESCRIPTION
1	29091454A	Pad L
2	29091455A	Pad R
3	29052832Y	Master carton box <D>
	29052853Y	Master carton box <P/W>
4	29100034-1Y	650×850mm, Styren bag
5	29110071	PP tape
6	261504	Adhesive tape
7	282301	Staple
8	Accessory bag ass'y	
	29342063Y	Instruction manual
	29342110Y	Instruction manual <C/P/W>
	292111	FM antenna <D>
	292112	FM antenna <P/W>
	232140	NMA-3057, AM loop antenna
	2010244Y	Connection cord
	2010200	Remote control cord
	25065462Y	FM antenna adaptor <P/W>
	25055018	CV-K-1, Conversion plug <W>
	29358002K	Service station list <N>
	29365024A	Warranty card <N>
	29100097-1Y	350×250mm, Styren bag

NOTE: <D>:120V model only
 <P>:230V model only
 <W>:Worldwide model only
 <N>:U.S.A. model only
 <C>:Canadian model only

ADJUSTMENT PROCEDURES

Preparation

• Input
FM mono: 1kHz, 75kHz dev., 60dB/μV (65dB)
FM stereo: 1kHz, L+R 67.5kHz dev., Pilot signal 19kHz
400Hz, 30% mod.,
7.5kHz dev.

Reference specifications
Tuned voltage AM
530kHz(522kHz)
1710kHz(1611kHz)
87.5MHz(87.9MHz)
108MHz(107.9MHz)
FM
AM
Stereo indicator level
Auto stop level
Muting width
Muting level
Less than 68dB/m
Less than 16dBμ
12±4dBμ

1.3±0.4V
7.6±0.5V(7.2±0.5V)
1.6±0.5V
8.0±0.5V
12±2dB
35±10kHz
Less than 68dB/m
Less than 16dBμ
12±4dBμ

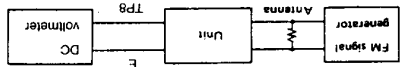
FM Section

Item	Step	Connection of instrument	Fig. 1	99.1MHz, 1kHz 75kHz dev. 25.2dBf (20dBμ)	99.1MHz	DC voltmeter	IF core on front end	Maximum	MUTE/MODE switch to OFF/MONO. Repeat the steps 1 and 2 until no further adjustment is necessary.	Signal	No signal	19,000 ± 10 Hz	MUTE/MODE switch to ON/STEREO	Distortion analyzer	Distortion	Stereo
FM	1	99.1 MHz, 1 kHz	Fig. 2	65 dBf (60 dB μ)	99.1 MHz, 1 kHz	DC voltmeter	L101	0 ± 20 mV								
	2	99.1 MHz, 1 kHz	Fig. 2	75 kHz dev.	99.1 MHz, 1 kHz	Distortion analyzer	L102	Minimum								
IF	1	99.1 MHz, 1 kHz	Fig. 2	65 dBf (60 dB μ)	99.1 MHz, 1 kHz	DC voltmeter	L101	0 ± 20 mV								
	2	99.1 MHz, 1 kHz	Fig. 2	75 kHz dev.	99.1 MHz, 1 kHz	Distortion analyzer	L102	Minimum								
Muting Level	1	99.1 MHz, 1 kHz	Fig. 2	17.2 dBf (12 dB μ)	99.1 MHz, 1 kHz	Oscilloscope	R101	Signal								
	2	99.1 MHz, 1 kHz	Fig. 2	16.2 dBf (11 dB μ)	99.1 MHz, 1 kHz	Oscilloscope	R101	No signal								
VCO		99.1 MHz, 1 kHz	Fig. 3	75 kHz dev.	99.1 MHz, 1 kHz	Frequency counter	R201	19,000 ± 10 Hz								
Stereo Distortion		99.1 MHz, Ext. modulation	Fig. 4	65 dBf (60 dB μ)	99.1 MHz, Ext. modulation	Distortion analyzer	IF core on front end	Minimum								
		67.5 kHz dev.		7.5 kHz dev.	67.5 kHz dev.	Distortion analyzer	IF core on front end	Minimum								

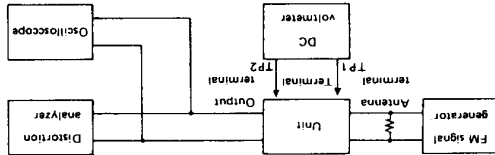
AM Section

Step	AM SC output	Tuned frequency	Output indicator	Adjust point	Adjust for
1	522 kHz	Digital DC voltmeter	L151	1.3 ± 0.1V	
2	603 kHz, 400 Hz (600 kHz)	AC voltmeter	L151	Maximum	
3	999 kHz, 400 Hz (1000 kHz)	AC voltmeter	L152	Maximum	

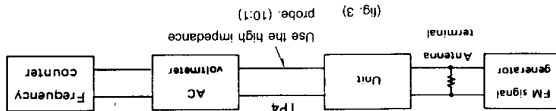
(): 10 kHz step model



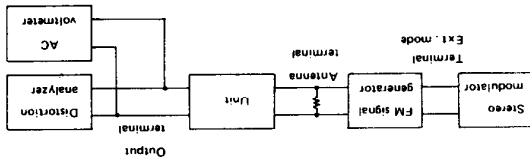
(fig. 1)



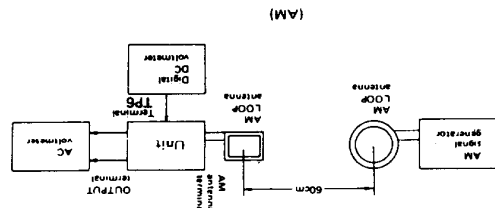
(fig. 2)



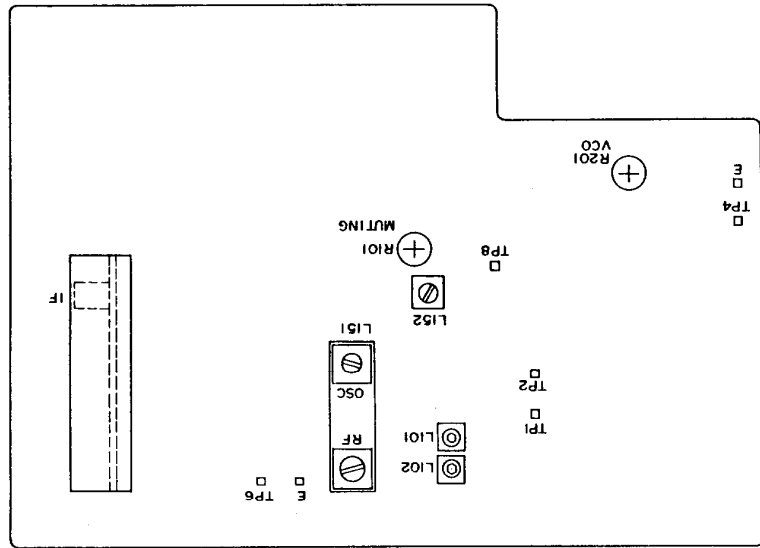
(fig. 3)



(fig. 4)



(AM)



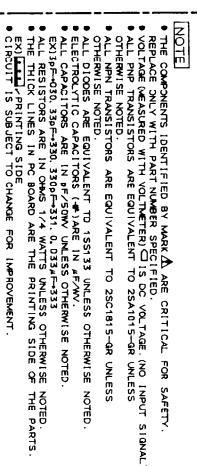
PRINTED CIRCUIT BOARD-PARTS LIST

MAIN CIRCUIT PC BOARD (NARF-4098-3/3A/3B)

CIRCUIT NO.	PART NO.	DESCRIPTION	CIRCUIT NO.	PART NO.	DESCRIPTION
	ICs			Capacitors	
Q104	22240039	LA1266	C155,C156	354761009	10 μ F,35V,Elect.
Q201	22240242	AN7470	C158	374723334	0.033 μ F $\pm$ 5%,50V,Plastic
Q703	22240090	LM7001	C159	374722234	0.022 μ F $\pm$ 5%,50V,Plastic
Q901	222780125NEC	78M12HF	C160	354761009	10 μ F,35V,Elect.
	Transistors		C201	374724734	0.047 μ F $\pm$ 5%,50V,Plastic
Q101	2211723	2SC1923-O	C202	354742209	22 μ F,16V,Elect.
Q102	2210746	2SC945A-P <P/W>	C203	354744719	470 μ F,16V,Elect.
Q103,Q701	2211255 or 2213284	2SC1815-GR or 2SC1740S-R	C205,C206	374721824 374721224	1800pF $\pm$ 5%,50V,Plastic <D> 1200pF $\pm$ 5%,50V,Plastic <P>
Q202	2211455 or 2213354	2SA1015-GR or 2SA933S-R		374721524	1500pF $\pm$ 5%,50V,Plastic <W>
Q203,Q204	2212794	2SD1468-R	C208,C209	354761009	10 μ F,35V,Elect.
Q702	2212445	2SK365-GR	C210	370134714	470pF $\pm$ 5%,100V,APS
Q704,Q705	2213090	DTA114YS	C211	354780109	1 μ F,50V,Elect.
Q706	2212600	DTA124ES	C212	354780339	3.3 μ F,50V,Elect.
	Diodes		C213	354782299	0.22 μ F,50V,Elect.
D101,D102	223191	SD101	C215,C216	354742209	22 μ F,16V,Elect.
D202,D203	223163	1SS133	C217	354781099	0.1 μ F,50V,Elect.
D701	224450562	MTZ5.6B	C701	354782299	0.22 μ F,50V,Elect.
D702-D704	223163	1SS133	C702	354780229	2.2 μ F,50V,Elect.
D903-D905	22380032	1SR139-100	C703,C704	374721034	0.01 μ F $\pm$ 5%,50V,Plastic
D906	224450562	MTZ5.6B	C706	354722219	220 μ F,6.3V,Elect.
D907	224450623	MTZ6.2C	C903	354761029	1000 μ F,35V,Elect.
D908	224452704	MTZ27D	C905,C907	354761009	10 μ F,35V,Elect.
D909,D910	22380032	1SR139-100	C909	354772219	220 μ F,63V,Elect.
D911	224451503	MTZ15C	C910,C911	354764709	47 μ F,35V,Elect.
	Coils & Transformers		C912	354761009	10 μ F,35V,Elect.
L101	233401	NFIF-4072	C913	354762219	220 μ F,35V,Elect.
L102	233402	NFIF-4073		Resistors	
L151	232148	NMRF-7050	R101	5210070 or 5210221	N06HR100KBD or N06HR100KBD,Semi-fixed
L152	232139	NMIF-4062	R118	442522734	27k Ω $\pm$ 5%,1/2W,Metal oxide film
L201	233383	NMC-6070 <P/W>	R201	5210062 or 5210216	N06HR4.7KBD or N06HR5KBD,Semi-fixed
L202,L203	233355A	NMC-4059	R903	442521214	120 Ω $\pm$ 5%,1/2W,Metal oxide film
	Front end		R905	441629114	910 Ω $\pm$ 5%,1W,Metal oxide film
U001	240088 240089	FE337-A07<D> FE415-G11 <P/W>		Terminals	
	Ceramic filters		P101	25060085	NTM-4PDMN29 <D>
X101,X102	3010071	SFE10.7MA5 <D>		25060117	NTM-2PDMN051 <P/W>
X101-X103	3010137	SFE10.7MMK <P/W>	P102	25045307	NPJ-2PDBL166 <D>
X151	3010123	SFZ-450JL		25045333	NPJ-2PDBL185 <P/W>
X152	3010076	BFU-450C	P103	25045330	NPJ-2PDBL184
	X'tal			Switch	
X701	3010141 or 3010158	XTL-7.2M	S710	25065286	NSS-22112,Band <W>
	Capacitors				
C002	354741019	100 μ F,16V,Elect.			
C108,C113	354742209	22 μ F,16V,Elect.			
C110	354780109	1 μ F,50V,Elect.			
C112	354780339	3.3 μ F,50V,Elect.			
C115	354784799	0.47 μ F,50V,Elect.			
C152	354741019	100 μ F,16V,Elect.			
C154	354780479	4.7 μ F,50V,Elect.			

NOTE:<D>:120V model only
 <P>:230V model only
 <W>:Worldwide model only

A	B	C	D	E	F	G	H
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PRINTED CIRCUIT BOARD PARTS LIST

DISPLAY CIRCUIT PC BOARD(NADIS-4099-3/3A/3B)

CIRCUIT NO.	PART NO.	DESCRIPTION
Q751	22240406	μ PD75268CW-025,IC
Q752	212093	FIP9BTM8,FL tube
Q753	221282	DTC144ES,Transistor
D717-D720	223163	1SS133,Diodes
D751,D758	223163	1SS133,Diode
D752	224450913	MTZ9.1C,Zener diode
D753-D755	223163	1SS133,Diodes
C751	375524744	0.47 μ F,5%,50V,Plastic capacitor
C752	354780109	1 μ F,50V,Elect. capacitor
C753	375524744	0.47 μ F,5%,50V,Plastic capacitor
C754	3000057	0.1F,5.5V,Super capacitor
R757	49163104404	100kohm $\times$ 4,1/10W,Network resistor
R760	49163103404	10kohm $\times$ 4,1/10W,Network resistor
S751-S756	25035548	NPS-111-S510,Push switches
X751	3010163	CST4.19MGW,Ceramic oscillator
	27190818	Holder FL

OPERATION SWITCH PC BOARD(NASW-4100-3)

CIRCUIT NO.	PART NO.	DESCRIPTION
S701-S706	25035548	NPS-111-S510,Push switches

POWER SUPPLY CIRCUIT PC BOARD (NAPS-4101-3A/3B)

CIRCUIT NO.	PART NO.	DESCRIPTION
C901	3500065A	△ DE7150FZ103PAC400V/125V, IS capacitor
	273001216	△ Cover for C901 <P/W/Q>
T901	2300636UM	△ NPT-1102D,Power transformer <D>
	2300637UM	△ NPT-1102P,Power transformer <P>
	2300638UM	△ NPT-1102DG,Power transformer <W>
S901	25035636	△ NPS-111-L590P,Power switch
R901	431523355	3.3 Ω ,1/2W,Solid resistor <D>
	28175137	Insulator plate

NOTE:<D>:120V model only

<P>:230V model only

<W>:Worldwide model only

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

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