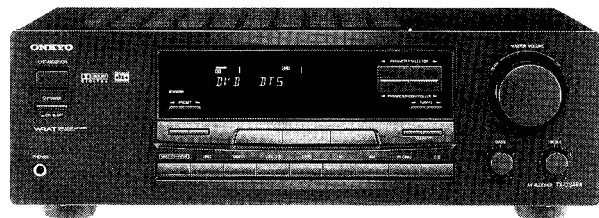
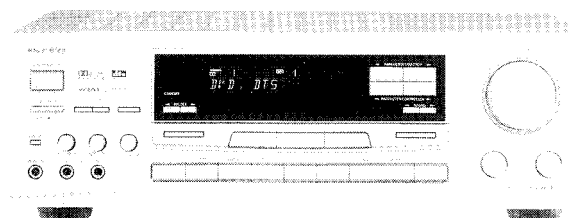


ONKYO® SERVICE MANUAL

AUDIO VIDEO RECEIVER MODEL TX-DS484



AUDIO VIDEO KARAOKE RECEIVER MODEL TX-SE570



Black, Silver, and Golden models

BMD	120V AC, 60Hz
GMGK	220V AC, 60Hz
BMP, SMP, BMPT, BMPA	230V AC, 50Hz
GMWT, BMWT, GMWR, BMWR	120/220V AC, 50/60Hz

Black and Golden models

BMWR, GMWR	120/220V AC, 50/60Hz
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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 PARTS 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.

TABLE OF CONTENTS

Specifications	2
Service procedures	3
Microprocessor connection diagram TX-DS484	4
Microprocessor terminal description TX-DS484	5
Microprocessor connection diagram TX-SE570	6
Microprocessor terminal description TX-SE570	7
Front panel view TX-DS484	8
Remote controller RC-427S & Rear panel view TX-DS484	9
Front panel view TX-SE570	10
Remote controller RC-428S & Rear panel view TX-SE570	11
Printed circuit board parts list	12
Adjustment procedures	17
IC block diagram and terminal description	18
Wiring view	27
Block diagram	29
Wiring board diagram	31
Schematic diagram (Input selector section)	33
Printed circuit board view (Input selector section)	35
Schematic diagram (DSP section)	37
Printed circuit board view (DSP section)	39
Schematic diagram (Surround selector section)	41
Printed circuit board view (Surround selector section)	43
Schematic diagram (Power amplifier section)	45
Printed circuit board view (Power amplifier section)	47
Schematic diagram (Display section)	49
Printed circuit board view (Display section)	51
Printed circuit board view	35
Chassis exploded view TX-DS484	53
Chassis exploded view parts list TX-DS484	55
Chassis exploded view TX-SE570	57
Chassis exploded view parts list TX-SE570	59
Packing view TX-DS484	61
Packing view TX-SE570	62

ONKYO®
AUDIO COMPONENTS

SPECIFICATIONS

AMPLIFIER SECTION

Continuous Average Power
output (FTC)

All channels: 55 watts per channel min. RMS at 8 ohms, 2 channels driven from 20 Hz to 20 kHz with no more than 0.08% total harmonic distortion.
70 watts min. RMS at 6 ohms, 2 channels driven from 1 kHz with no more than 0.1% total harmonic distortion.

Continuous Power output (DIN) 75 watts $\times$ 5 at 6 ohms
Maximum Power output (EIAJ) 100 watts $\times$ 5 at 6 ohms
Total Harmonic Distortion: 0.08% at rated power (Front)
IM Distortion: 0.08% at rated power (Front)
Damping Factor: 60 at 8 ohms (Front)

Input Sensitivity and Impedance

PHONO: 2.5 mV, 50 kohms

LINE (CD, TAPE, DVD,

VIDEO 1, 2): 200 mV, 50 kohms

MULTICHANNEL INPUT

(FRONT L/R, SUR-

ROUND L/R, CENTER): 200 mV, 50 kohms

(SUBWOOFER): 36 mV, 50 kohms

DIGITAL 2 (COAXIAL): 0.5 Vp-p, 75 ohms

VIDEO IN

(DVD, VIDEO 1, 2): 1 Vp-p, 75 ohms

Output Level and Impedance

Rec out (TAPE, VIDEO 2): 200 mV, 2.2 kohms

Pre out (SUBWOOFER): 1 V, 2.2 kohms

VIDEO OUT

(VIDEO 2, MONITOR): 1 Vp-p, 75 ohms

Phono Overload: 110 mV RMS at 1 kHz, 0.5% T.H.D.

Frequency Response: 20 Hz to 100 kHz, $\pm 1/-3$ dB

RIAA Deviation: 20 Hz to 20 kHz, ± 0.8 dB

Tone Control

Bass: ± 10 dB at 50 Hz

Treble: ± 10 dB at 10 kHz

Signal-to-Noise Ratio

Phono: 80 dB (IHF A, 5 mV input)

CD/Tape: 100 dB (IHF A)

VIDEO SECTION

Signal sensitivity and

Impedance: 1 Vp-p, 75 ohms
(DVD, VIDEO 1, VIDEO 2 input, out-
put)

TUNER SECTION

FM

Tuning Range: 87.5 — 108.0 MHz (50kHz steps)

Usable Sensitivity

Mono: 11.2 dBf, 1.0 μ V (75 ohms)

Stereo: 17.2 dBf, 2.0 μ V (75 ohms)

50 dB Quieting Sensitivity

Mono: 17.2 dBf, 2.0 μ V (75 ohms)

Stereo: 37.2 dBf, 20 μ V (75 ohms)

Capture Ratio: 2.0 dB

Image Rejection Ratio

U.S.A. & Canadian models: 40 dB

Other area models: 85 dB

IF Rejection Ratio: 90 dB

Signal-to-Noise Ratio

Mono: 76 dB

Stereo: 70 dB

Alternate Channel Attenuation: 55 dB

Selectivity: 50 dB (DIN)

AM Suppression Ratio: 50 dB

Total Harmonic Distortion

Mono: 0.2%

Stereo: 0.3%

Frequency Response: 30 Hz — 15 kHz, ± 1.0 dB

Stereo Separation: 45 dB at 1 kHz

30 dB at 100 Hz — 10 kHz

AM

Tuning Range

U.S.A. & Canadian models: 530—1,710 kHz (10 kHz steps)

European & Australian

models:

522—1,611 kHz (9 kHz steps)

Worldwide models:

531—1,602 kHz (9 kHz steps),

530—1,710 kHz (10 kHz steps)

Usable Sensitivity: 30 μ V

Image Rejection Ratio: 40 dB

IF Rejection Ratio: 40 dB

Signal-to-Noise Ratio: 40 dB

Total Harmonic Distortion: 0.7%

GENERAL

Power Supply:

AC 120 V, 60 Hz

AC 230 V, 50 Hz

AC 220-230 V and 120 V switchable,

50/60 Hz

Power Consumption:

3.4 A

260 W

Dimensions (W $\times$ H $\times$ D):

435 $\times$ 150 $\times$ 333 mm

17-1/8" $\times$ 5-7/8" $\times$ 13-1/8"

Weight:

9.7 kg, 21.4 lbs. (AC120V, 60Hz)

10.3 kg, 22.7 lbs. (AC230V, 50Hz)

11.1 kg, 24.5 lbs. (AC220-230V and 120V

Switchable, 50/60Hz)

Specifications and features are subject to change without notice.

SERVICE PROCEDURES

1. Replacing the fuses

—— This symbol located near the fuse indicates that the fuse used is fast operating type. For continued protection against fire hazard, replace with same type fuse. For fuse rating refer to the marking adjacent to the symbol.

—— Ce symbole indique que le fusible utilise est a rapide. Pour une protection permanente, n'utiliser que des fusibles de meme type. Ce dernier est indique la qu le present symbol est appose.

REF. NO.	PART NO.	DESCRIPTION
F911	252166	 6.3A-UL/T-237, Fuse<D, WT, R>
F922	252077 or 252243	 4A-SE-EAK or 4A-SE-TL250V, Fuse<P, PT, WT, R, A, K>
F933	252075 or 252241	 2.5A-SE-EAK or 2.5A-SE-TL250V, Fuse<P, PT, K>

NOTE : <D> : 120V Model only
 <P> : European Model only
 <WT> : Taiwanese Model only
 <PT> : Asian Model only
 <R> : Chinese Model only
 <A> : Australian Model only
 <K> : Korean Model only

2. To Initialize the unit

This device employs a microprocessor to perform various functions and operations. If interference generated by an external power supply, radio wave, or other electrical source results in accident which causes the specified operations and functions to operate abnormally.

To perform a result, please follow the procedure below.

1. Press and hold down VIDEO1 button, then press SPEAKER A button when the unit is Power ON.
2. After "clear" is displayed, the preset memory and each mode stored in the memory, such as surround, are initialized and will return to the factory settings.

3. 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 supply cord and the screw on the back panel.

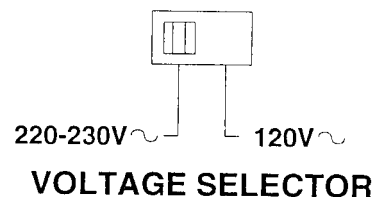
Specifications: 3.3 Mohm $\pm$ 10% at 500V.

4. Change of voltage

Worldwide models are equipment with a voltage selector to conform with local power supplies. This switch is located on the back panel.

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 the 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.



5. Memory 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.

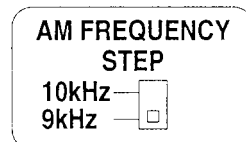
The unit must be plugged in and the power switch turned on and off once in order to charge the back-up system. Note that since this is not a permanent memory, the power switch must be turned on and off a few times each month the keep the back-up system operative.

The period of the 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 shorted when the unit is exposed to very high humidity or used in an area with an extremely humid climate.

6. Setting the tuning step frequency

Worldwide models are equipped with a step band selector switch. This switch is located on the back panel. This switch is set to 9 kHz at the factory, but may have to be reset to 10 kHz depending on the area where the unit is used.

AM band step
 Europe: 9 kHz
 U.S.A.: 10 kHz



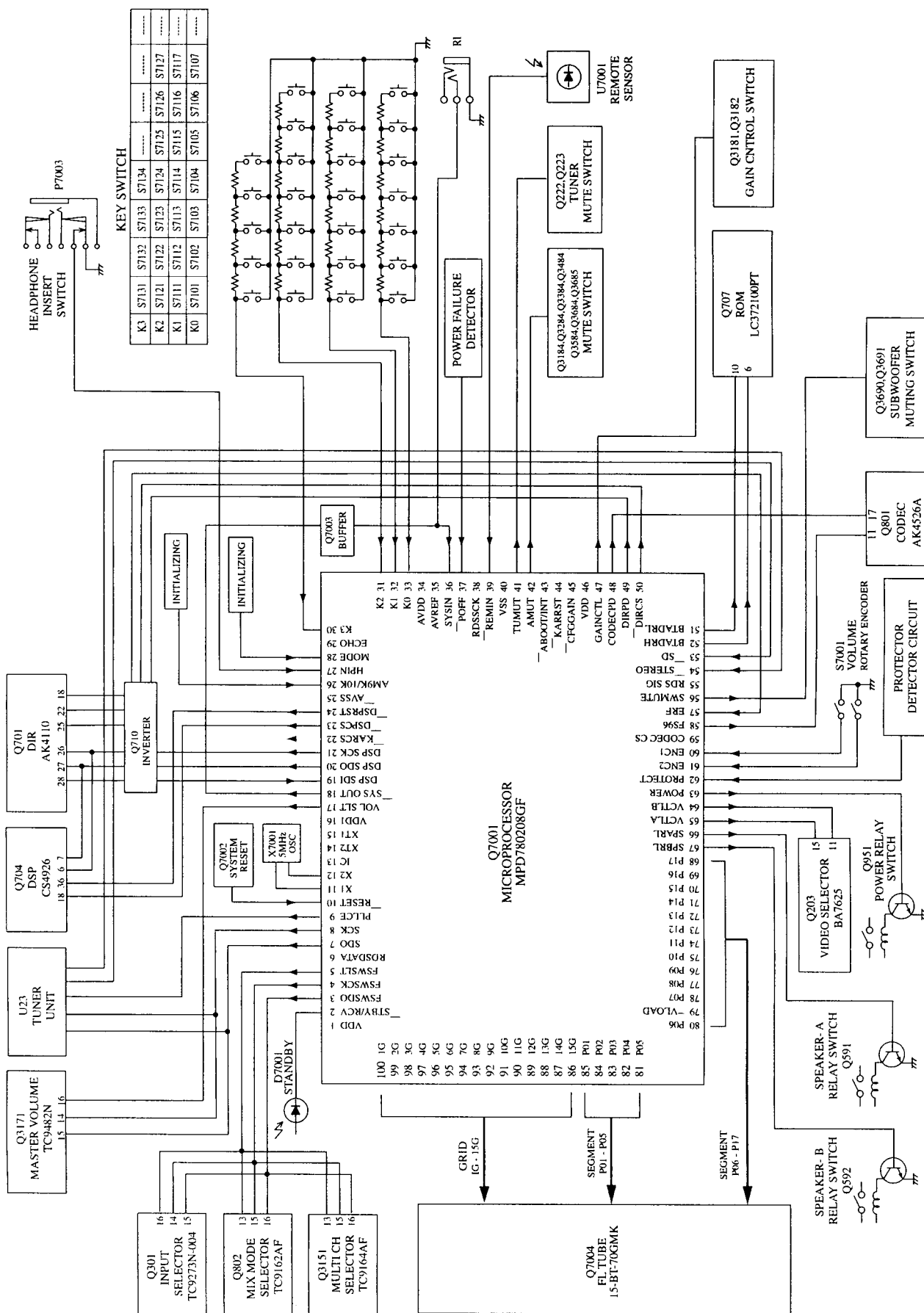
7. Changing the band step

With the exception of the worldwide models, a tuning step selector switch is not provided. When you change the band step, change the parts as shown below.

	To 10kHz	To 9kHz
R7020	Open	10 kohm
R7021	10kohm	8.2 kohm

MICROPROCESSOR-CONNECTION DIAGRAM

MODEL TX-DS484



MICROPROCESSOR-TERMINAL DESCRIPTION

MODEL TX-DS484

Q7001: μ PD780208GF

No.	Function	I/O	Description	No.	Function	I/O	Description
1	VDD	1	Power supply terminal (+5V)	38	RDSSCK	1	Clock input terminal from RDS decoder.
2	STBY/RECV	O	STANDBY/RECEIVED inductor control output terminal.	39	REMIN	1	Signal input terminal from remote sensor.
3	FSWSDO	O	Data output terminal to function switch ICs.	40	VSS	1	Power supply terminal (GND).
4	FSWSCK	O	Clock output terminal to function switch ICs.	41	TUMUT	O	Muting control output terminal for tuner section.
5	FSWSLT	O	Latch output terminal to function switch ICs.	42	AMUT	O	Muting control output terminal for amplifier section.
6	RDSDATA	1	Data input terminal from RDS decoder.	43	ABOOT/INT	I/O	AUTOBOOT and INTREQ I/O terminal for DSP(CS4296).
7	SIO	O	Data output terminal to PLL IC and Master volume IC(TC9482N).	44	KARRST	O	Not used.
8	SCK	O	Clock output terminal to PLL IC and Master volume IC(TC9482N).	45	CFGAIN	O	Not used.
9	PLICE	O	Chip enable output terminal to PLL IC.	46	VDD	1	Power supply terminal (+5V).
10	RESET	1	System reset input terminal.	47	GAINCTL	1	Gain control output terminal.
11	X1	O	Ceramic oscillator connection terminals.	48	CODECPD	O	Power down signal output terminal to CODEC(AK4526).
12	X2	1	Connect 5.0MHz ceramic oscillator between the both terminals.	49	DIRPD	O	Power down signal output terminal to DIR (AK4110).
13	GND	1	Internal connection terminal (to GND)	50	DIRCS	O	Chip enable output terminal to DIR (AK4110).
14	XT2	O	Sub-system clock output terminal. Not used.	51	BTADRL	O	Output terminal to set LSB position of address to boot ROM(LC372100).
15	XT1	1	Sub-system clock input terminal. Not used.(to GND)	52	BTADRH	O	Output terminal to set MSB position of address to boot ROM(LC372100).
16	Vdd	1	Power supply terminal (+5V)	53	SD	1	Broadcast detection input terminal.
17	VOL S/LT	O	Latch output terminal to Master volume IC(TC9482N).	54	STEREO	1	Stereo broadcast detection input terminal.
18	YSOUT	O	System code output terminal.	55	RDSSIG	1	Signal input terminal from RDS decoder.
19	DSPSDI	1	Data input terminal from DIR(AK4110).	56	SWMUTE	O	SW Preout muting control output terminal for amplifier section.
20	DSPSDO	O	Data output terminal to DIR (AK4110).DSP(CS4926).	57	ERF	1	ERF Signal input terminal from DIR(AK4110).
21	DSPSCK	O	Clock output terminal to DIR (AK4110).DSP(CS4926)	58	FS96	O	FS96 Signal output terminal to CODEC(AK4526)
22	KARCS	O	Not used.	59	CODECS	O	Not used.
23	DSPCS	O	Chip enable output terminal to DSP(CS4926).	60	ENC1	1	Volume control input terminal.
24	DSPRST	O	Reset output terminal to DSP(CS4926).	61	ENC2	1	Volume control input terminal.
25	AVSS	1	Power supply terminal (GND)	62	PROTECT	1	Detection input terminal for protection circuit.
26	AMPK/10K	1	Initializing input terminal for AM band step.	63	POWER	O	Relay control output terminal for power.
27	HPIN	1	Input terminal when the headphone is inserted.	64	VCTLB	O	Video selector control output terminal.
28	MODE	1	Initializing input terminal of operation mode..	65	VCTLA	O	Video selector control output terminal.
29	ECHO	1	Not used.	66	SPARL	O	Control output terminal for SPEAKER A relay.
30~33	K3~K0	1	Operation key connection terminals.	67	SPBRL	O	Control output terminal for SPEAKER B relay.
34	AVDD	1	Power supply terminal (+5V)	68~78	P17~P7	O	Segment output terminals for FL tube.
35	AVREF	1	Reference voltage terminal.	79	VLOAD		Power supply terminal for FL tube.
36	SYSIN	1	System code input terminal.	80~85	P6~P1	O	Segment output terminals for FL tube.
37	POFF	1	Power failure detection terminal.	86~100	15G~1G	O	Grid output terminals for FL tube.

PRINTED CIRCUIT BOARD PARTS LIST

MODEL TX-DS484/TX-SE570

NS : No Spare Part

DISPLAY CIRCUIT PC BOARD (NADIS-6772-1A/1B/1C/1D/1E/1G)

CIRCUIT NO.	PART NO.	DESCRIPTION
	FL tube	
Q7004	212207	15-BT-70GNK
	Remote Sensor	
U7001	241305 or 241332	GP1U281X or PIC-28143TE5
	ICs	
Q1001	22241297R2	BU1923F <P>
Q7001	22241439	MPD780208GF-063-3BA
Q7802	22241383R2	NJM4565M-D <570R>
	Transistors	
Q7002	2214490R2	RN1404
Q7003	2214540R2	RN2403
	Diodes	
D1001	223234R2	1SS352 <P>
D7001	225290	SEL4110R,LED
D7002,D7003	223234R2	1SS352
D7004	224490560R2	UDZ5.6B
D7005,D7006	223234R2	1SS352
D7009	224490910R2	UDZ9.1B
	Coils	
L7001~L7003	231237K220R2	NCH-1477
	Crystals	
X1001	3010203	AF6146C <P>
X7001	3010242	CST5.00MGW
	Capacitors	
C1001	355780229	2.2 μ F,50V,Elect. <P>
C1003	355721019	100 μ F,6.3V,Elect. <P>
C7001	355780229	2.2 μ F,50V,Elect.
C7002	3000078	DX-5R5L104,Super Capacitor
C7004,C7005	355721019	100 μ F,6.3V,Elect.
C7008	355721019	100 μ F,6.3V,Elect.
C7009,C7010	355780109	1 μ F,50V,Elect.
C7015	355741009	10 μ F,16V,Elect.
C7018,C7019	355721019	100 μ F,6.3V,Elect.
C7020	375524744S	0.47 μ F $\pm$ 5%,50V,Plastic
C7820,C7821	355741009	10 μ F,16V,Elect. <570R>
C7822,C7826	355780229	2.2 μ F,50V,Elect. <570R>
	Resistors	
R7811,R7812	5104393	N11RL10KB17Z,Variable, Mic Level <570R>
R7822	5104393	N11RL10KB17Z,Variable, Echo Level <570R>
	Plug	
JL7001B	25055624	NPLG-3P586
	Sockets	
JL7003A	25051089	NSCT-5P876
JL7801A	25051089	NSCT-5P876 <570R>
P504	2009990580UL	NSAS-12P0789
P7001A	25052071 or 25051329 or 25051869 or 25052258 or 25050931	NSCT-25P1858 or NSCT-25P1118 or NSCT-25P1656 or NSCT-25P2155 or NSCT-25P718
P702A	25052066 or 25051324 or 25051864 or 25052253 or 25050926	NSCT-20P1853 or NSCT-20P1113 or NSCT-20P1651 or NSCT-20P2150 or NSCT-20P713
P703	2009990578UL	NSAS-10P0787 <570R>
P7206	2009990573UL 2009990574UL	NSAS-4P0782 <D,P,PT,A,K> NSAS-6P0783 <WT,R,570R>
	Push switches	
S7101~S7107	25035652	NPS-111-S604
S7111~S7117	25035652	NPS-111-S604
S7121~S7127	25035652	NPS-111-S604
S7131~S7134	25035652	NPS-111-S604
S7135~S7138	25035652	NPS-111-S604 <570R>
	FL Holder	
Q7004A	27190989A	Holder (FL)

SURROUND SWITCH PC BOARD (NAAR-6773-1A/1B/1C/1D/1E/1G)

CIRCUIT NO.	PART NO.	DESCRIPTION
	ICs	
Q261	22241383R2	NJM4565M-D
Q931	222780565JRC	NJM78M56FA
Q934	222780055	78M05HF
Q3151	22241221R2	TC9164AF
Q3301,Q3501	22241383R2	NJM4565M-D
	Transistors	
Q221,Q222	2215024	2SD1468S-R
Q223	2213510 or 2215770 or 2214350	DTA114ES or KRA102M or RN2202
Q225	NS 2215864 or 2213284 or 2212115	KTC3199-GR or <P> 2SC1740S-R or <P> 2SC2458-GR <P>
Q932	2211455 or NS 2215975	2SA1015-GR or KTA1266-GR
	Diodes	
D901	22380285F or 22380022F	RS403M or RBV402
D931	224490620R2	UDZ6.2B
D932	223234R2	1SS352
D933~D938	22380032 or 22380260 or 22380035	1SR139-100 or RL1N4003 or GP104003E
D939	224493000R2	UDZ30B
D940,D941	22380032 or 22380260 or 22380035	1SR139-100 or RL1N4003 or GP104003E
	Capacitors	
C222	354741009	10 μ F,16V,Elect.
C223,C226	354780339	3.3 μ F,50V,Elect.
C224	354780229	2.2 μ F,50V,Elect.
C267,C268	354741009	10 μ F,16V,Elect.
C269,C270	354721019	100 μ F,6.3V,Elect.
C273,C274	374728224	8200pF $\pm$ 5%,50V,Plastic
C275,C276	374721824	1800pF $\pm$ 5%,50V,Plastic
C277,C278	354744709	47 μ F,16V,Elect.
C279,C280	354741009	10 μ F,16V,Elect.
C3101,C3201	354784709	47 μ F,50V,Elect.
C3151,C3152	354744709	47 μ F,16V,Elect.
C3307,C3308	354741009	10 μ F,16V,Elect.
C923	3504213S	4700 μ F,35V,Elect.
C924	354761029S	1000 μ F,35V,Elect.
C933	354742229S	2200 μ F,16V,Elect.
C935,C943	354741009	10 μ F,16V,Elect.
C936,C937	354762219	220 μ F,35V,Elect.
	Resistors	
R921~R924	453532294	0.22 Ω $\pm$ 5%,1/2W,Metal
R925	453530274	2.7 Ω $\pm$ 5%,1/2W,Metal
R932	453530224	2.2 Ω $\pm$ 5%,1/2W,Metal
R933	453530104	1 Ω $\pm$ 5%,1/2W,Metal
R934	443522204	22 Ω $\pm$ 5%,1/2W,Metal
R941	443521804	18 Ω $\pm$ 5%,1/2W,Metal
	Sockets	
JL911B	25050267	NSCT-3P95
JL912A	25051108	NSCT-4P895
JL921A	25051109	NSCT-5P896
JL931A,JL961A	25051107	NSCT-3P894
P101A	25052024 or 25051281 or 25051822 or 25052211 or 25050955	NSCT-15P1811 or NSCT-15P1070 or NSCT-15P1609 or NSCT-15P2108 or NSCT-15P742
P520	25052138 or 25052034 or 25051291 or 25051832 or 25052221 or 25050965	NSCT-7P2036 NSCT-25P1821 or NSCT-25P1080 or NSCT-25P1619 or NSCT-25P2118 or NSCT-25P752
P7001B		

CIRCUIT NO. PART NO. DESCRIPTION

	Plugs	
P242A	25055705	NPLG-9P661
P303A,P305A	25055805	NPLG-16P761
P306A,P706A	25055701	NPLG-5P657
P704A	25055708	NPLG-12P664
P705A	25055712	NPLG-20P668
P707A,P304A	25055804	NPLG-4P760
	Terminals	
P261	25045575 or 25045303	NPJ-4PDRW389 or NPJ-4PDBL162
	Heat sink	
Q934A	27160145	RAD-51

HEAD PHONE PC BOARD (NAETC-6774-1A/1B/1C/1D/1E/1G)

CIRCUIT NO.	PART NO.	DESCRIPTION
	Socket	
JL7003B	25051089	NSCT-5P876
	Terminal	
P7003	25045385	YKB26-5153, Head Phones <570R>
	25045514	YKB26-5005, Head Phones <484>

DIGITAL INPUT PC BOARD (NAETC-6775-1A/1B/1C/1D/1E/1G)

CIRCUIT NO.	PART NO.	DESCRIPTION
	Photo coupler	
U7201	24120037	TORX178B, Photo coupler
	IC	
Q7201	222740046R2TO	TC74HCU04F
	Coils	
L7202,L7203	231237M022R2	NCH-1471
	Capacitor	
C7203	354721019	100 μ F,6.3V,Elect.
	Plug	
P701A	25055136	NPLG-6P120
	Terminals	
P7202,P7203	25045473	NPJ-1PDBL291

MIC. INPUT TERMINAL PC BOARD (NAETC-6776-1G)B

CIRCUIT NO.	PART NO.	DESCRIPTION
	IC	
Q7801	22240051R2	NJM2068M <570R>
	Capacitors	
C7801,C7802	354741009	10 μ F,16V,Elect. <570R>
C7809,C7810	354741009	10 μ F,16V,Elect. <570R>
	Plug	
JL7801B	25055626	NPLG-5P588 <570R>
	Terminals	
P7801,P7802	25045574	YKB22-5176, Mic Jack<570R>

VOLUME PC BOARD (NAETC-6777-1A/1B/1C/1D/1E/1G)

CIRCUIT NO.	PART NO.	DESCRIPTION
	Rotary encoder	
S7001	25065575	EC16B2425, Master Volume
	Socket	
JL7001A	25051087	NSCT-3P874

TONE CONTROL VOLUME PC BOARD (NAETC-6778-1A/1B/1C/1D/1E/1G)

CIRCUIT NO.	PART NO.	DESCRIPTION
	Capacitors	
C391,C392	374721534	0.015 μ F $\pm$ 5%,50V,Plastic
	Resistors	
R391,R392	5104356	N14RLC100KWT20Z,Bass/Treble
	Plug	
P391A	25055139	NPLG-9P123

DSP CIRCUIT PC BOARD (NADG-6780-1A/1B)

CIRCUIT NO.	PART NO.	DESCRIPTION
	ICs	
Q203	22240373	BA7625
Q701	22241338R2	AK4110VF
Q702	22241131R3	TC9409BF001 <570R>
Q703	22241399R2	TC7WU04F
Q704	22241340R9	CS492604-CL
Q705,Q706	22274574ER2TO	TC74VHC574FT
Q707	22241415R2	LC372100PT-K34-TLM
Q708,Q710	222740077R2TO	TC74HCT7007AF
Q709	22278033ENEC	MPC29M33HF
Q801	22241341R3	AK4526A-VQ
Q802	22240981R2	TC9162AF
Q803~Q809	22241383R2	NJM4565M-D

CIRCUIT NO. PART NO. DESCRIPTION

	Transistors	
Q201,Q204	2214373R2B or 2214374R2 or 2214375R2	2SA1162-O or 2SA1162-Y or 2SA1162-GR
Q202,Q3690	2215410R2	RN1441
Q3691	2214540R2	RN2403
	Diodes	
D201,D202	223234R2	1SS352
D801~D808	223234R2	1SS352
	Coils	
L201	231237M022R2	NCH-1471
L701~L703	231237M022R2	NCH-1471
L710,L711	231237M022R2	NCH-1471 <570R>
L720~L722	231237M022R2	NCH-1471
L802,L803	231237M022R2	NCH-1471
	Cores	
L704,L705	230921R2	BLM21B222SPT
	Crystals	
X701	3010327	AT-4912.288MHz
X702	3010324R2	CSTCV12.2MTJOC4
	Capacitors	
C201~C203	354780229	2.2 μ F,50V,Elect.
C205~C206	354724719	470 μ F,6.3V,Elect.
C210	354721019	100 μ F,6.3V,Elect.
C701~C708	354721019	100 μ F,6.3V,Elect.
C724,C725	354721019	100 μ F,6.3V,Elect. <570R>
C727~C731	354721019	100 μ F,6.3V,Elect. <570R>
C740,C741	354721019	100 μ F,6.3V,Elect.
C788~C791	354724719	470 μ F,6.3V,Elect.
C807	354721019	100 μ F,6.3V,Elect.
C810,C811	354721019	100 μ F,6.3V,Elect.
C816,C817	374721524	1500pF $\pm$ 5%,50V,Plastic
C825	354741009	10 μ F,16V,Elect.
C827,C829	354744709	47 μ F,16V,Elect.
C830,C831	354784709	47 μ F,50V,Elect.
C832	374721544	0.15 μ F $\pm$ 5%,50V,Plastic
C833	374721524	1500pF $\pm$ 5%,50V,Plastic
C834,C836	374726834	0.068 μ F $\pm$ 5%,50V,Plastic
C835,C837	374726814	680pF $\pm$ 5%,50V,Plastic
C840,C842	354744709	47 μ F,16V,Elect.
C844,C845	354784709	47 μ F,50V,Elect.
C846,C847	374721524	1500pF $\pm$ 5%,50V,Plastic
C848~C851	374726814	680pF $\pm$ 5%,50V,Plastic
C854,C857	354744709	47 μ F,16V,Elect.
C858,C859	354784709	47 μ F,50V,Elect.
C860,C861	374721524	1500pF $\pm$ 5%,50V,Plastic
C862~C865	374726814	680pF $\pm$ 5%,50V,Plastic
C868,C871	354744709	47 μ F,16V,Elect.
C880,C882	354744709	47 μ F,16V,Elect.
C886	374721034	0.01 μ F $\pm$ 5%,50V,Plastic
C889,C890	374721824	1800pF $\pm$ 5%,50V,Plastic <570R>
C892	354741009	10 μ F,16V,Elect. <570R>
C894,C896	354744709	47 μ F,16V,Elect.
C3691	374721044	0.1 μ F $\pm$ 5%,50V,Plastic
	Sockets	
P701	2009990577UL	NSAS-12P0786
P702B	25052029 or 25050960 or 25051286 or 25051827 or 25052216	NSCT-20P1816 or NSCT-20P747 or NSCT-20P1075 or NSCT-20P1614 or NSCT-20P2113
P704	25051237	NSCT-12P1027
P705	25051241	NSCT-20P1031
P706	25051230	NSCT-5P1020
P707	25051526	NSCT-4P1313
	Plug	
P703A	25055135	NPLG-5P119 <570R>
	Terminals	
P201	25045567	NPJ-1PDBL382
P202	25045315	NPJ-2PDYE172
P203	25045299	NPJ-3PDYE158

SELECTOR CIRCUIT PC BOARD (NAAF-6782-1A/1B/1C/1D/1E/1G)

CIRCUIT NO.	PART NO.	DESCRIPTION
ICs		
Q301	22240864	TC9273N-004
Q302	22241383R2	NJM4565M-D
Q3171	22241371	TC9482N
Q3181,Q3183	22241383R2	NJM4565M-D
Q3281,Q3381	22241383R2	NJM4565M-D
Q3581	22241383R2	NJM4565M-D
Transistors		
Q3182,Q3184	2213631 or 2213632	RN1241-A or RN1241-B
Q3185	2215770 or 2213510 or 2214350	KRA102M or DTA114ES or RN2202
Q3282,Q3284	2213631 or 2213632	RN1241-A or RN1241-B
Q3384,Q3484	2213631 or 2213632	RN1241-A or RN1241-B
Q3584,Q3684	2213631 or 2213632	RN1241-A or RN1241-B
Q3685	2213631 or 2213632	RN1241-A or RN1241-B
Diodes		
D3182	223234R2	1SS352
Capacitors		
C315,C316	354744709	47 μ F,16V,Elect.
C321,C322	354784709	47 μ F,50V,Elect.
C323,C324	354744709	47 μ F,16V,Elect.
C3171,C3271	354781009	10 μ F,50V,Elect.
C3172,C3173	354744709	47 μ F,16V,Elect.
C3181,C3281	354782209	22 μ F,50V,Elect.
C3183,C3188	354744709	47 μ F,16V,Elect.
C3189,C3289	374721534	0.015 μ F $\pm$ 5%,50V,Plastic
C3190,C3196	354741009	10 μ F,16V,Elect.
C3194,C3195	354744709	47 μ F,16V,Elect.
C3283,C3288	354744709	47 μ F,16V,Elect.
C3290	354741009	10 μ F,16V,Elect.
C3371,C3381	354781009	10 μ F,50V,Elect.
C3388,C3488	354744709	47 μ F,16V,Elect.
C3394,C3395	354741009	10 μ F,16V,Elect.
C3471,C3481	354781009	10 μ F,50V,Elect.
C3571,C3581	354781009	10 μ F,50V,Elect.
C3588,C3688	354744709	47 μ F,16V,Elect.
C3594,C3595	354741009	10 μ F,16V,Elect.
C3671,C3681	354781009	10 μ F,50V,Elect.
C3687	374724734S	0.047 μ F $\pm$ 5%,50V,Plastic
Sockets		
P303,P305	25051527	NSCT-16P1314
P304	25051526	NSCT-4P1313
P306	25051230	NSCT-5P1020
P391	2009990579UL	NSAS-16P0788
P601	2009990575UL	NSAS-10P0784
Terminals		
P301,P302	25045300 or 25045571	NPJ-6PDBL159 or NPJ-6PDRW386

POWER SWITCH PC BOARD (NASW-6783-1A/1B/1C/1D/1E/1G)

CIRCUIT NO.	PART NO.	DESCRIPTION
Capacitor		
C901	3500196S	Δ RE275V-103M
Push switch		
S901	25035550	Δ NPS-111-L512P,Power Switch

REGULATOR PC BOARD (NAPS-6785-1A/1B/1C/1D/1E/1G)

CIRCUIT NO.	PART NO.	DESCRIPTION
Capacitors		
C926~C928	394541007	10 μ F,16V,Elect.
C942	394541007	10 μ F,16V,Elect.
Resistors		
R926	452630564F	5.6 Ω $\pm$ 5%,1W,Metal
R929	441623304F	33 Ω $\pm$ 5%,1W,Metal
R938	453530104	1 Ω $\pm$ 5%,1/2W,Metal
Sockets		
JL921B	25050269	NSCT-5P97
JL931B	25050267	NSCT-3P95

PRIMARY CIRCUIT PC BOARD (PS-6786-1A/1B/1C/1D/1E/1G)

CIRCUIT NO.	PART NO.	DESCRIPTION
Transistor		
Q951	2215830 or 2213640	KRC105M or DTC123JS
Diodes		
D951~D954	22380260 or 22380032 or 22380035	RL1N4003 or <P,PT,A,WT,R,K,570R> 1SR139-100 or <P,PT,A,WT,R,K,570R> GP104003E <P,PT,A,WT,R,K,570R>
D955	223234R2	1SS352
Transformer		
T902	Δ 2301381 Δ 2301382 Δ 2301383	NPT-1358D <D> NPT-1358P <P,PT,A> NPT-1358DG <WT,R,K,570R>
Capacitors		
C902	Δ 3500196S	RE275V-103M
C952	354753319	330 μ F,25V,Elect.
Resistors		
R901	431533355	3.3 Ω $\pm$ 20%,1/2W,Solid <D>
R951	453530824	8.2 Ω $\pm$ 5%,1/2W,Metal <P,PT,A,WT,R,K,570R>
Socket		
JL961B	25050267	NSCT-3P95
Plugs		
P901A	Δ 25055675	NPLG-2P631
P903	Δ 25051125 Δ 25051126 Δ 25052382 Δ 25052115	NSCT-4P912,AC Outlet <P,PT,WT,K> NSCT-4P913,AC Outlet <D> NSCT-4P2279,AC Outlet <R,570R> NSCT-2P2013,AC Outlet <A>
Relay		
RL901	Δ 25065561 or Δ 25065515 or Δ 25065526	NRL-1P5A-DC12-127 or NRL-1P5A-DC12-096 or NRL-1P5A-DC12-102
Switch		
S902	Δ 25065437	NSS-22157P, Voltage selector <WT,R,570R>
Fuse holder		
F901,F902	Δ 25052133	NSCT-1P2031 <D,WT,R,570R>
F903,F904	Δ 25052133	NSCT-1P2031 <P,PT,A,WT,R,K,570R>
F905,F906	Δ 25052133	NSCT-1P2031 <P,PT,K>

FRONT POWER AMPLIFIER CIRCUIT PC BOARD (NAAF-6789-1A/1B/1C)

CIRCUIT NO.	PART NO.	DESCRIPTION
Transistors		
Q501~Q506	2210755 or 2210756 or 2211732 or 2211733	2SC1775A-E or 2SC1775A-F or 2SC1845-F or 2SC1845-E
Q507~Q510	2211353 or NS 2215843 or NS 2215844	2SA949-O or KTA1024-O or KTA1024-Y
Q513,Q514	2211353 or NS 2215843 or NS 2215844	2SA949-O or KTA1024-O or KTA1024-Y
Q515,Q516	2211633 or NS 2215854 or NS 2215853	2SC2229-O or KTC3206-Y or KTC3206-O
Q519,Q520	NS 2203523 or NS 2203524	KTD600K-Y or KTD600K-GR
Q521,Q522	NS 2203514 or NS 2203513	KTB631K-GR or KTB631K-Y
Q527,Q528	2210755 or 2210756 or 2211732 or 2211733	2SC1775A-E or 2SC1775A-F or 2SC1845-F or 2SC1845-E
Q529,Q530	2212115 or 2213284 or NS 2215864	2SC2458-GR or 2SC1740S-R or KTC3199-GR
Q581,Q582	2210755 or 2210756 or 2211732 or 2211733	2SC1775A-E or 2SC1775A-F or 2SC1845-F or 2SC1845-E
Q583	2211792 or 2211793	2SA992-F or 2SA992-E
Q591,Q592	2213640 or 2214660 or NS 2215830	DTC123JS or RN1205 or KRC105M

CIRCUIT NO.	PART NO.	DESCRIPTION	CIRCUIT NO.	PART NO.	DESCRIPTION
Diodes					
D511,D512	223163 or 223205	1SS133 or 1SS270A	Q601~Q604	2210755 or 2210756 or 2211732 or 2211733	2SC1775A-E or 2SC1775A-F or 2SC1845-F or 2SC1845-E
D571	224470512	MTZJ5.1B,Zener	Q605,Q606	2211353 or NS 2215843 or NS 2215844	2SA949-O or KTA1024-O or KTA1024-Y
Coils			Q609,Q610	2210755 or 2210756 or 2211732 or 2211733	2SC1775A-E or 2SC1775A-F or 2SC1845-F or 2SC1845-E
L501,L502	231176S	S-1.3C	Q611,Q612	2212115 or 2213284 or NS 2215864	2SC2458-GR or 2SC1740S-R or KTC3199-GR
Capacitors			Q613,Q614	2211353 or NS 2215843 or NS 2215844	2SA949-O or KTA1024-O or KTA1024-Y
C501,C502	354784709	47 μ F,50V,Elect.	Q615,Q616	2212653 or 2212654	2SC3421-O or 2SC3421-Y
C503,C504	374721015	100pF $\pm$ 5%,50V,Plastic	Q617,Q618	NS 2215853 or NS 2215854	KTC3206-O or KTC3206-Y
C505,C506	354742219	220 μ F,16V,Elect.		2211633	2SC2229-O
C507~C510	354781009	10 μ F,50V,Elect.	Q619,Q620	NS 2203523 or NS 2203524	KTD600K-Y or KTD600K-GR
C517,C518	374724734	0.047 μ F $\pm$ 5%,50V,Plastic	Q621,Q622	NS 2203513 or NS 2203514	KTB631K-Y or KTB631K-GR
C519,C520	374721044	0.1 μ F $\pm$ 5%,50V,Plastic	Q627,Q628	2210755 or 2210756 or 2211732 or 2210755	2SC1775A-E or 2SC1775A-F or 2SC1845-F or 2SC1775A-E
C521,C522	354744709	47 μ F,16V,Elect.	Q629,Q630	2211353 or NS 2215843 or NS 2215844	2SA949-O or KTA1024-O or KTA1024-Y
C525,C526	354781019	100 μ F,50V,Elect.	Q691	2213650 or 2214680 or NS 2216060	DTD1132S or RN1226 or KRC245M
C581	354721019	100 μ F,6.3V,Elect.	Diodes		
C583	354780109	1 μ F,50V,Elect.	D607,D608	223163 or 223205	1SS133 or 1SS270A
C905,C906	374721044	0.1 μ F $\pm$ 5%,50V,Plastic	D691	223163 or 223205	1SS133 or 1SS270A
C915,C916	3504344	10000 μ F,50V,Elect.	D1501,D1506	223163 or 223205	1SS133 or 1SS270A
Resistors			Coils		
R521~R524	443528204	82 Ω $\pm$ 5%,1/2W,Metal	L601,L602	231176S	S-1.3C
R525,R526	443526804	68 Ω $\pm$ 5%,1/2W,Metal	L1501	231176S	S-1.3C
R527,R524	443528204	82 Ω $\pm$ 5%,1/2W,Metal	Capacitors		
R529,R530	443525604	56 Ω $\pm$ 5%,1/2W,Metal	C601,C602	354784709	47 μ F,50V,Elect.
R539,R542	443530224	2.2 Ω $\pm$ 5%,1/2W,Metal	C603,C604	374721015	100pF $\pm$ 5%,50V,Plastic
R543,R544	443522214	220 Ω $\pm$ 5%,1/2W,Metal	C605,C606	354744709	47 μ F,16V,Elect.
R547,R548	4500245 or 4000132	0.22 Ω $\pm$ 5%,5.5W,Metal plate or 0.22 Ω $\pm$ 5%,5.5W,Metal plate	C607,C608	354742219	220 μ F,16V,Elect.
R555,R556	453630824	8.2 Ω $\pm$ 5%,1W,Metal	C615,C616	354781009	10 μ F,50V,Elect.
R557,R558	443623914	390 Ω $\pm$ 5%,1W,Metal	C619,C620	354781009	10 μ F,50V,Elect.
R573,R574	5210260	N06HR3KBC, Trimming	C621,C622	374724734	0.047 μ F $\pm$ 5%,50V,Plastic
R591,R592	4500171F	2.2 Ω $\pm$ 5%,1/4W,Metal	C623,C624	374721044	0.1 μ F $\pm$ 5%,50V,Plastic
Sockets			C627,C628	354782219	220 μ F,50V,Elect.
JL501A	25051109	NSCT-5P896	C631,C634	354784709	47 μ F,50V,Elect.
JL902B	25050268	NSCT-4P96	C635~C638	354781009	10 μ F,50V,Elect.
JL903A	25051108	NSCT-4P895	C639,C640	354780109	1 μ F,50V,Elect.
Plugs			C681	354781009	10 μ F,50V,Elect.
P504A	25055444	NPLG-6P426	C1501	354784709	47 μ F,50V,Elect.
P511,P512	25055038	NPLG-2P29	C1502	374721015	100pF $\pm$ 5%,50V,Plastic
P520A	25055913	NPLG-7P866	C1503	354742219	220 μ F,16V,Elect.
P921A	25055175	NPLG-3P159	C1504,C1505	354781009	10 μ F,50V,Elect.
CENTER/SURROUND POWER AMPLIFIER PC BOARD (NAAF-6790-1A/1B/1C)			C1510	374724734	0.047 μ F $\pm$ 5%,50V,Plastic
CIRCUIT NO. PART NO. DESCRIPTION			C1511	374721044	0.1 μ F $\pm$ 5%,50V,Plastic
Capacitors			C1512	354744709	47 μ F,16V,Elect.
Q1501~Q1503	2210755 or 2210756 or 2211732 or 2211733	2SC1775A-E or 2SC1775A-F or 2SC1845-F or 2SC1845-E	C1530	354780109	1 μ F,50V,Elect.
Q1504,Q1505	2211353 or 2215844 or 2215843	2SA949-O or KTA1024-Y or KTA1024-O	C1533,C1534	354781009	10 μ F,50V,Elect.
Q1507	2215843 or 2211353 or 2215844	KTA1024-O or 2SA949-O or KTA1024-Y			
Q1508	2215853 or 2211633 or 2215854	KTC3206-O or 2SC2229-O or KTC3206-Y			
Q1509	2212653 or 2212654	2SC3421-O or 2SC3421-Y			
Q1510	2203523 or 2203524	KTD600K-Y or KTD600K-GR			
Q1511	2203513 or 2203514	KTB631K-Y or KTB631K-GR			
Q1514	2211732 or 2210755 or 2210756 or 2211733	2SC1845-F or 2SC1775A-E or 2SC1775A-F or 2SC1845-E			
Q1515	2215864 or 2212115 or 2213284	KTC3199-GR or 2SC2458-GR or 2SC1740S-R			

CIRCUIT NO.	PART NO.	DESCRIPTION
Resistors		
R623~R626	443528204	82 Ω $\pm$ 5%, 1/2W, Metal
R629, R630	443525604	56 Ω $\pm$ 5%, 1/2W, Metal
R633, R634	443526804	68 Ω $\pm$ 5%, 1/2W, Metal
R635, R636	443528204	82 Ω $\pm$ 5%, 1/2W, Metal
R641, R642	443522214	220 Ω $\pm$ 5%, 1/2W, Metal
R643, R644	453530224	2.2 Ω $\pm$ 5%, 1/2W, Metal
R645, R646	453530224	2.2 Ω $\pm$ 5%, 1/2W, Metal
R647, R648	4500245	0.22 Ω $\pm$ 5%, 5.5W, Metal plate
R647, R648	4000132	0.22 Ω $\pm$ 5%, 5.5W, Metal plate
R655, R656	453630824	8.2 Ω $\pm$ 5%, 1W, Metal
R659, R660	4500268F	2.2 Ω $\pm$ 5%, 1/2W, Metal
R673, R674	5210288	N06HR2.2KBE, Trimming
R675~R678	4500159F	0.22 Ω $\pm$ 5%, 1/4W, Metal
R1512, R1513	443528204	82 Ω $\pm$ 5%, 1/2W, Metal
R1515	443526804	68 Ω $\pm$ 5%, 1/2W, Metal
R1516	443528204	82 Ω $\pm$ 5%, 1/2W, Metal
R1517	443525604	56 Ω $\pm$ 5%, 1/2W, Metal
R1519	443522214	220 Ω $\pm$ 5%, 1/2W, Metal
R1522, R1523	453530224	2.2 Ω $\pm$ 5%, 1/2W, Metal
R1524	4000132 or 4500245	0.22 Ω $\pm$ 5%, 5.5W, or 0.22 Ω $\pm$ 5%, 5.5W, Metal plate
R1529	453630824	8.2 Ω $\pm$ 5%, 1W, Metal
R1532	5210288	N06HR2.2KBE, Trimming
R1534, R1535	4500159F	0.22 Ω $\pm$ 5%, 1/4W, Metal
Sockets		
JL501B	25050282	NSCT-5P110
JL902A	25051108	NSCT-4P895
JL903B	25050268	NSCT-4P96
Plugs		
P601A	25055236	NPLG-5P220
P611, P612	25055038	NPLG-2P29
P1511	25055038	NPLG-2P29
P7206	25055132	NPLG-2P116
Relay		
RL601	25065563 or 25065590	NRL-2P5A-DC24-129 or NRL-2P8A-DC24-144
Terminals		
P7201	25045504	NPJ-1PDBL319
RL1501	25065574	NRL-1P5A-DC24-134
Switch		
S7201	25065286	NSS-22112, Band step <WT,R,570R>

FRONT SPEAKER TERMINAL PC BOARD (NAETC-6791-1A/1B/1C)

CIRCUIT NO.	PART NO.	DESCRIPTION
Diodes		
D591, D592	223163 or 223205	1SS133 or 1SS270A
Capacitors		
C533~C536	374721034	0.01 μ F $\pm$ 5%, 50V, Plastic <P,A,PT,WT,R,570R>
Socket		
P501	2009990572AUL	NSAS-14P0781
Terminal		
P502	25060296	NTM-8PDMN227, Front Speaker
Relays		
RL501, RL502	25065563 or 25065590	NRL-2P5A-DC24-129 or NRL-2P8A-DC24-144

CENTER/SURROUND SPEAKER TERMINAL PC BOARD (NAETC-6792-1A/1B/1C)

CIRCUIT NO.	PART NO.	DESCRIPTION
Capacitors		
C625, C626	374721034	0.01 μ F $\pm$ 5%, 50V, Plastic <P,A,PT,WT,R,570R>
C1526	374721034	0.01 μ F $\pm$ 5%, 50V, Plastic <P,A,PT,WT,R,570R>
Socket		
P602	2009990571AUL	NSAS-12P0780
Terminal		
P603	25060297	NTM-6PDMN228, Center/Surround Speaker

MULTI CHANNEL INPUT PC BOARD (NAAF-6793-1A/1B/1C)

CIRCUIT NO.	PART NO.	DESCRIPTION
ICs		
Q241, Q243	22240293	NJM4558L-D
Capacitors		
C248, C249	354741009	10 μ F, 16V, Elect.
Socket		
P242	25051234	NSCT-9P1024
Terminal		
P241	25045572	NPJ-6PDBRW387

SECONDARY PC BOARD (NAETC-6795-1A/1B/1C)

CIRCUIT NO.	PART NO.	DESCRIPTION
Resistors		
R991, R992	453530104	1 Ω $\pm$ 5%, 1/2W, Metal
R993	4500229	0.1 Ω $\pm$ 5%, 1/4W, Metal
Sockets		
P921	2009990570AUL	NSAS-6P0779
JL911A	25051107	NSCT-3P894
JL912B	25050281	NSCT-4P109

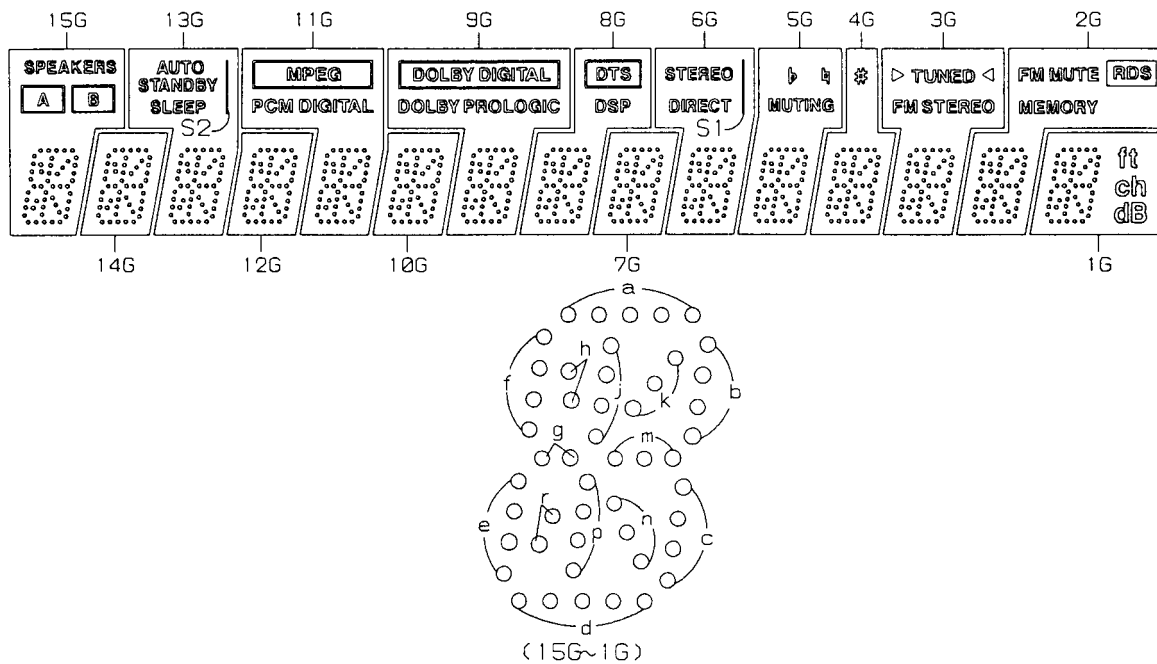
HOLDER PC BOARD (NAETC-6796-1A/1B/1C)

CIRCUIT NO.	PART NO.	DESCRIPTION
P598, P599	27190540-1	Holder (CLAMP)

NOTE: <D> : 120V Model only
 <P> : European Model only
 <WT> : Taiwanese Model only
 <PT> : Asian Model only
 <R> : Chinese Model only
 <A> : Australian Model only
 <K> : Korean Model only
 <570R> : TX-SE570 Chinese Model only
 <484> : TX-DS484 only

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

15-BT-70GK (FL tube)

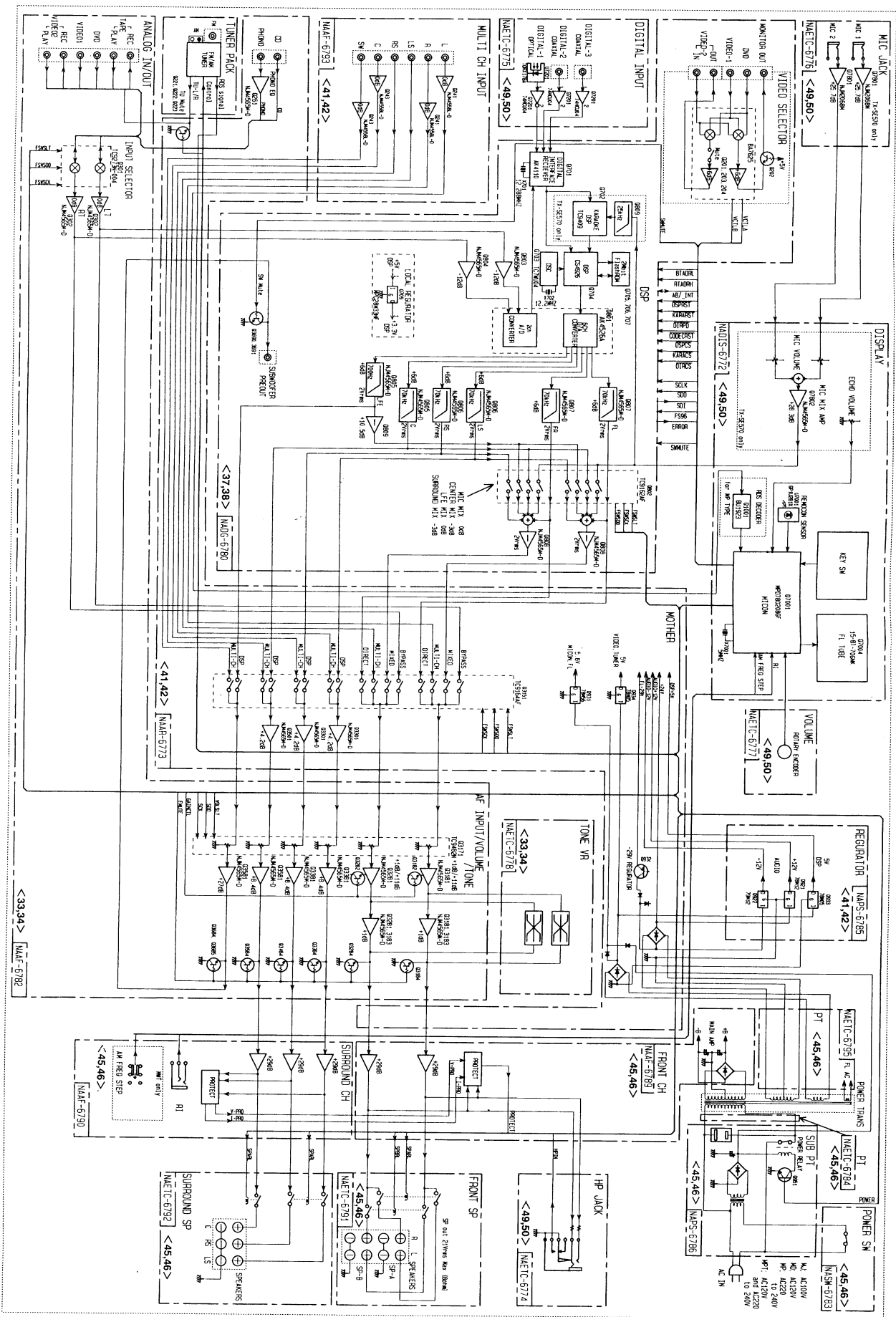


ANODE CONNECTION

	15G	14G	13G	12G	11G	10G	9G	8G	7G	6G	5G	4G	3G	2G	1G
P1	SPEAKERS	-	AUTO STANDBY	-	MPEG	-	DOLBY DIGITAL	DTS	-	STEREO	h	#	TUNED	RDS	dB
P2	A	-	SLEEP	-	(MPEG)	-	(DOLBY DIGITAL)	(DTS)	-	DIRECT	b	-	▷ ◁	FM MUTE	ch
P3	B	-	S2	-	PCM DIGITAL	-	DOLBY PROLOGIC	DSP	-	S1	MUTING	-	FM STEREO	MEMORY	ft
P4	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a
P5	h	h	h	h	h	h	h	h	h	h	h	h	h	h	h
P6	j	j	j	j	j	j	j	j	j	j	j	j	j	j	j
P7	k	k	k	k	k	k	k	k	k	k	k	k	k	k	k
P8	b	b	b	b	b	b	b	b	b	b	b	b	b	b	b
P9	f	f	f	f	f	f	f	f	f	f	f	f	f	f	f
P10	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m
P11	g	g	g	g	g	g	g	g	g	g	g	g	g	g	g
P12	c	c	c	c	c	c	c	c	c	c	c	c	c	c	c
P13	e	e	e	e	e	e	e	e	e	e	e	e	e	e	e
P14	r	r	r	r	r	r	r	r	r	r	r	r	r	r	r
P15	p	p	p	p	p	p	p	p	p	p	p	p	p	p	p
P16	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n
P17	d	d	d	d	d	d	d	d	d	d	d	d	d	d	d



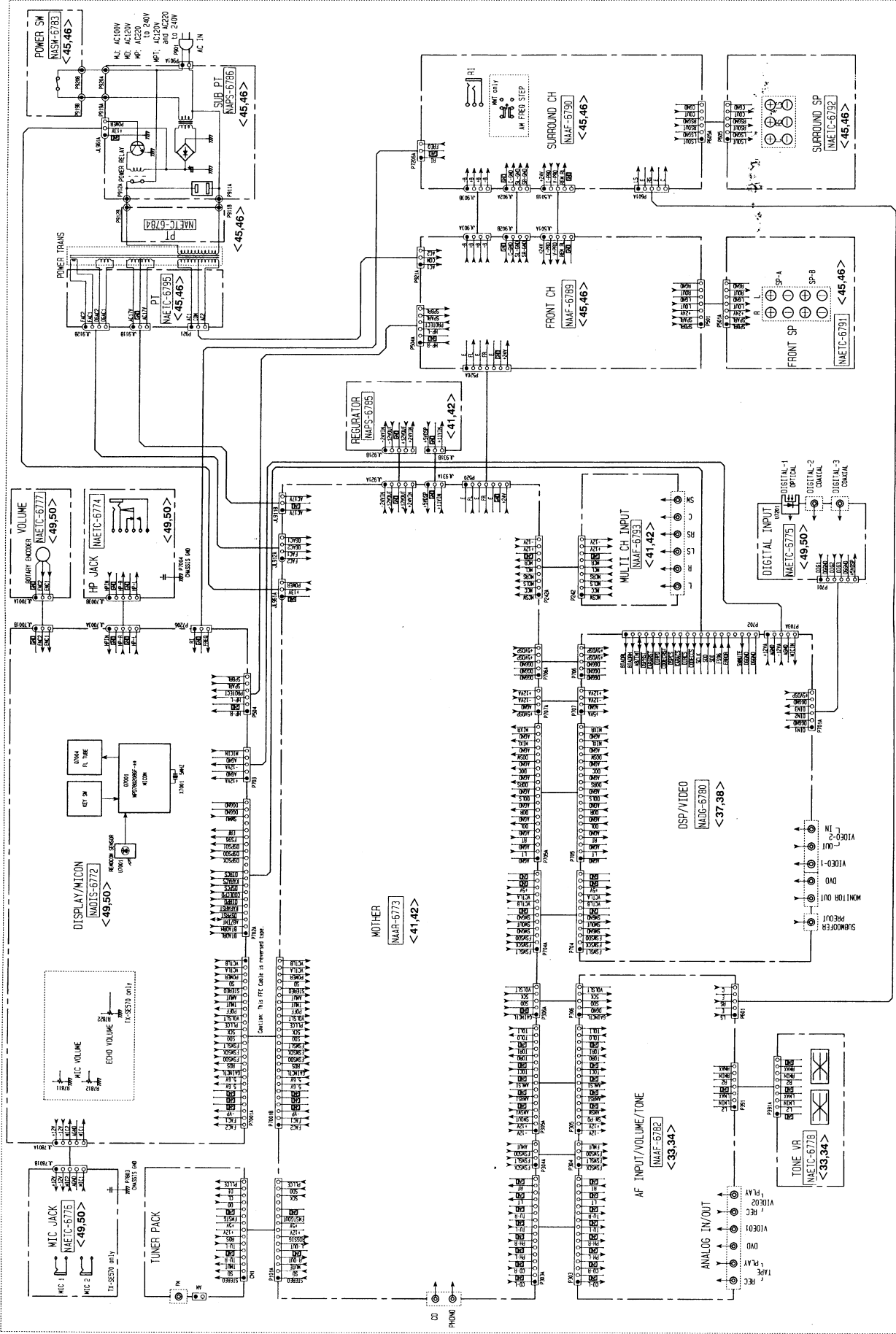
BLOCK DIAGRAM



Note : For the information about schematic diagram , refer to the pages listed in the brackets <

WIRING BOARD DIAGRAM

Note: For the information about schematic diagram, refer to the pages listed in the brackets < >

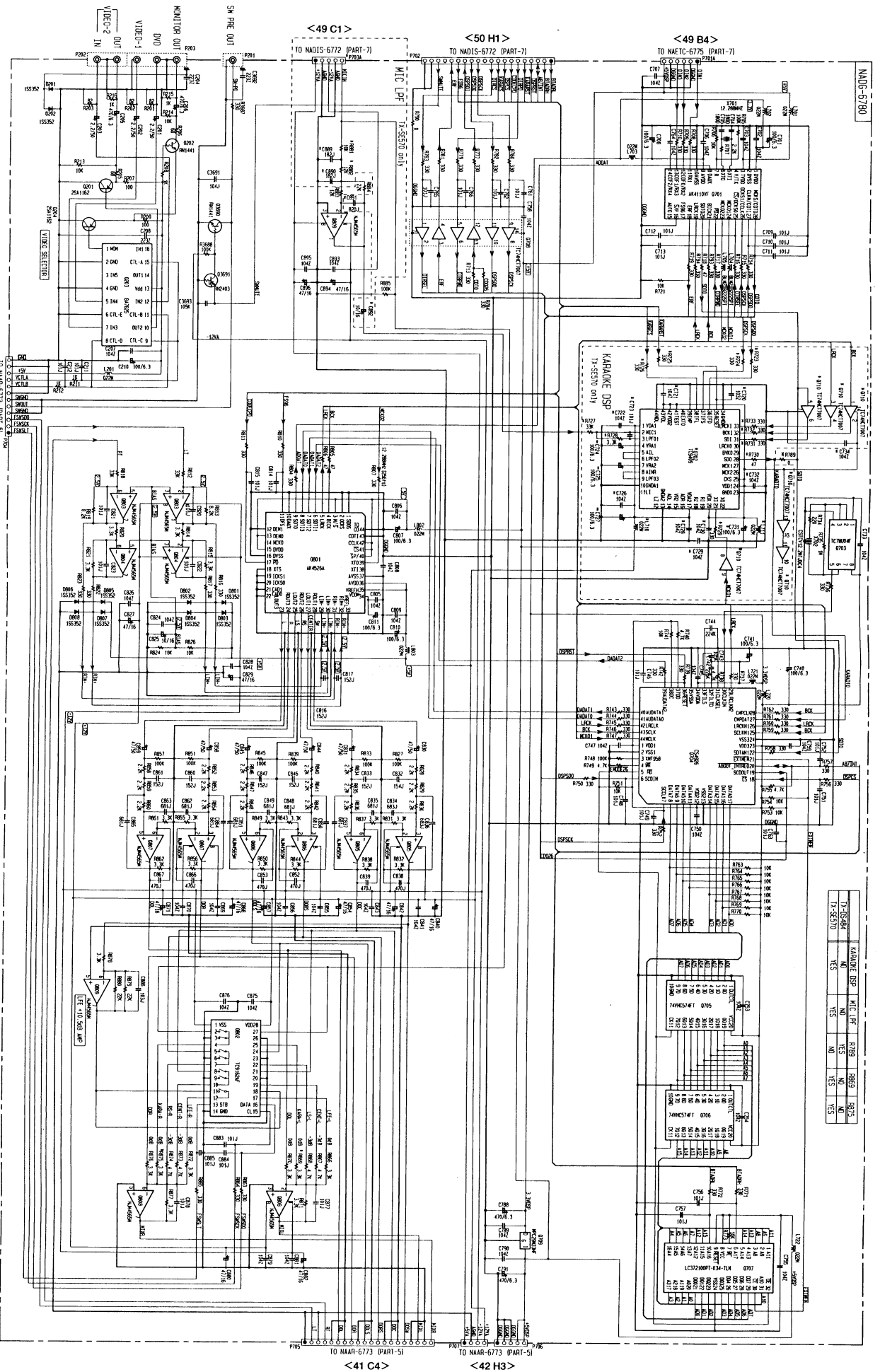


A vertical scale with five tick marks labeled A, B, C, D, and E from top to bottom.



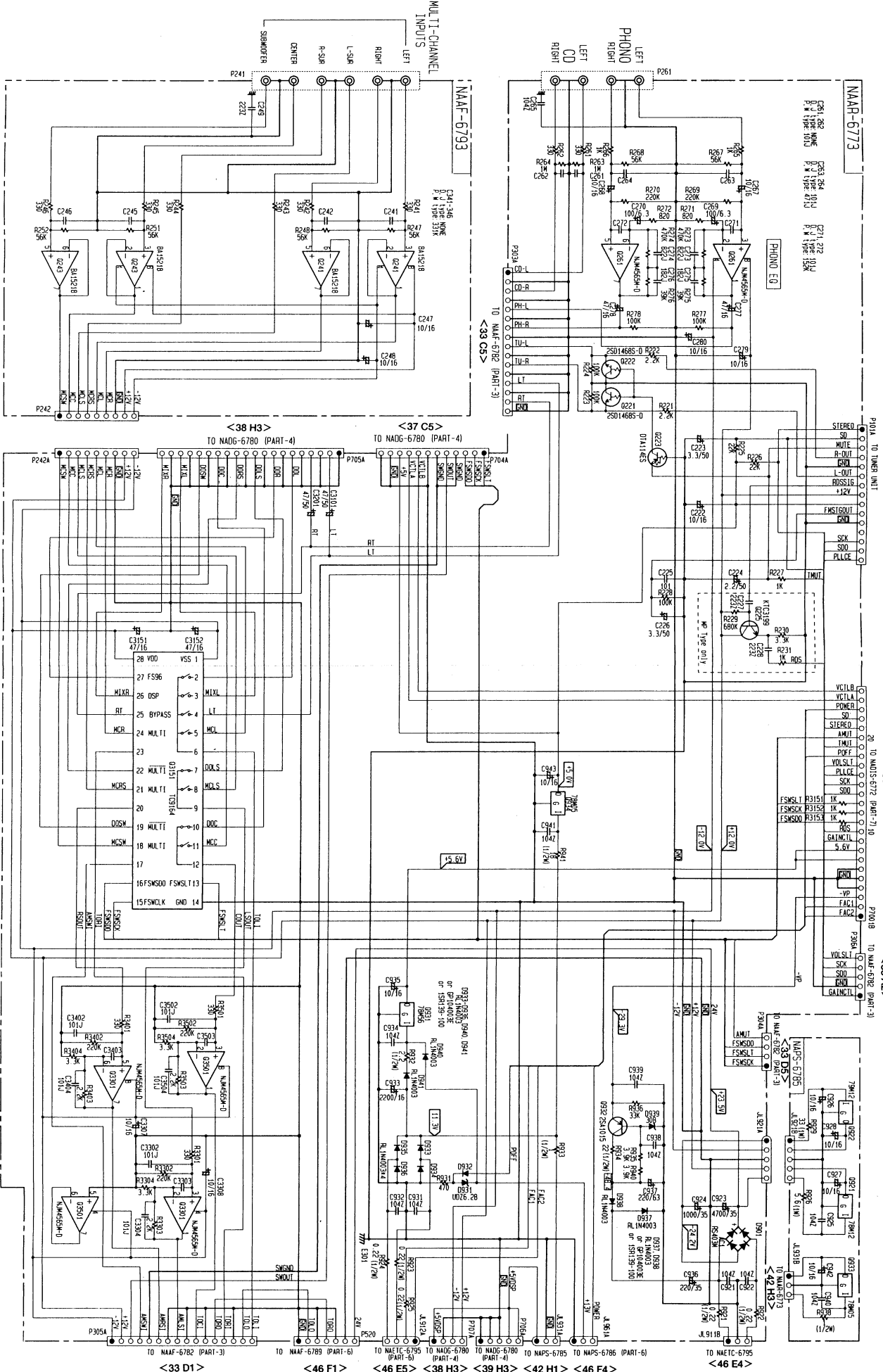
SCHEMATIC DIAGRAM

A B C D E F G H

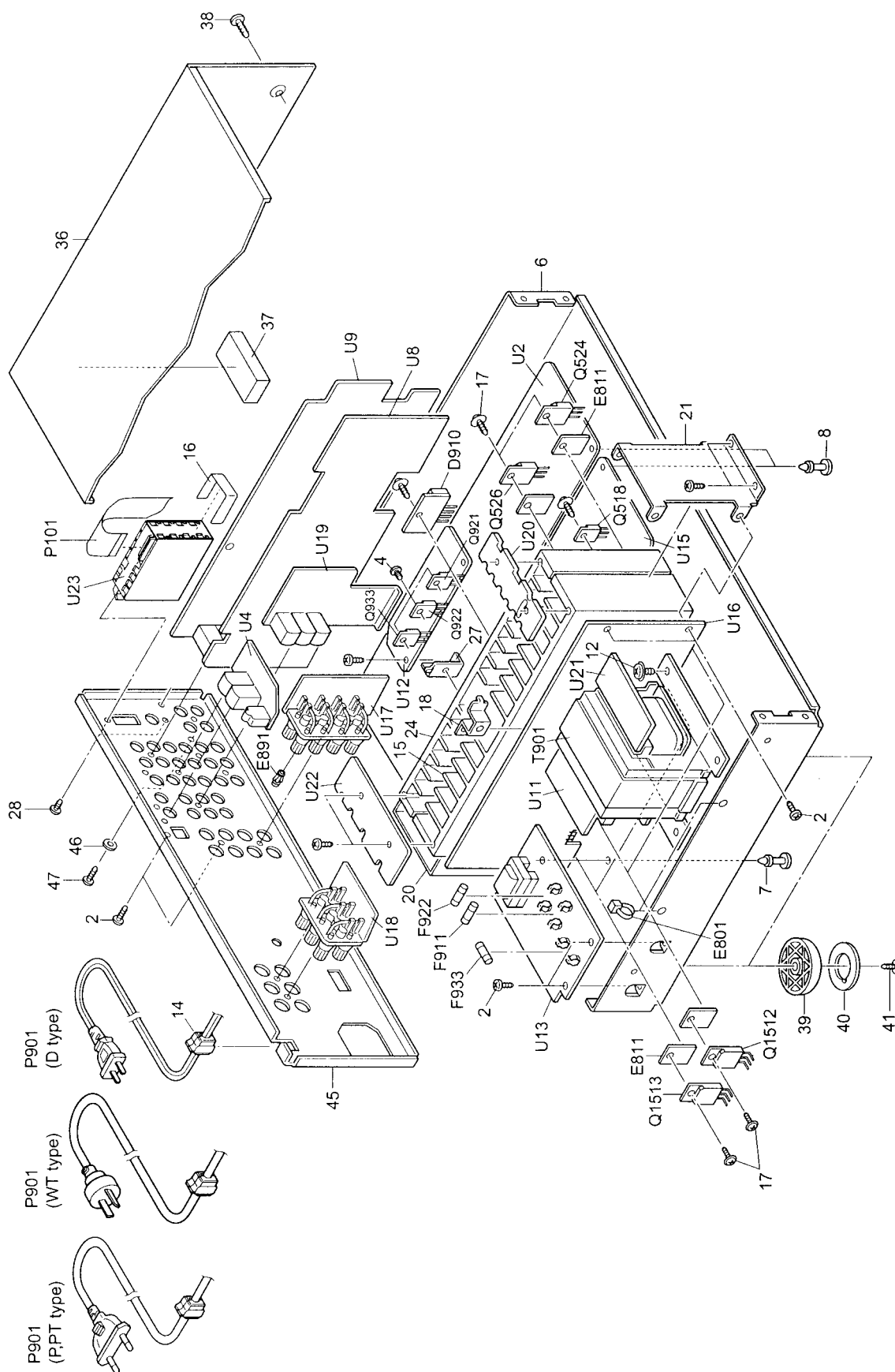


KARAOKE DSP	MIC LPF	IC1	IC2	IC3	IC4	IC5	IC6	IC7	IC8	IC9	IC10
TS-5570	TS-5570	TS-5570	TS-5570	TS-5570	TS-5570	TS-5570	TS-5570	TS-5570	TS-5570	TS-5570	TS-5570

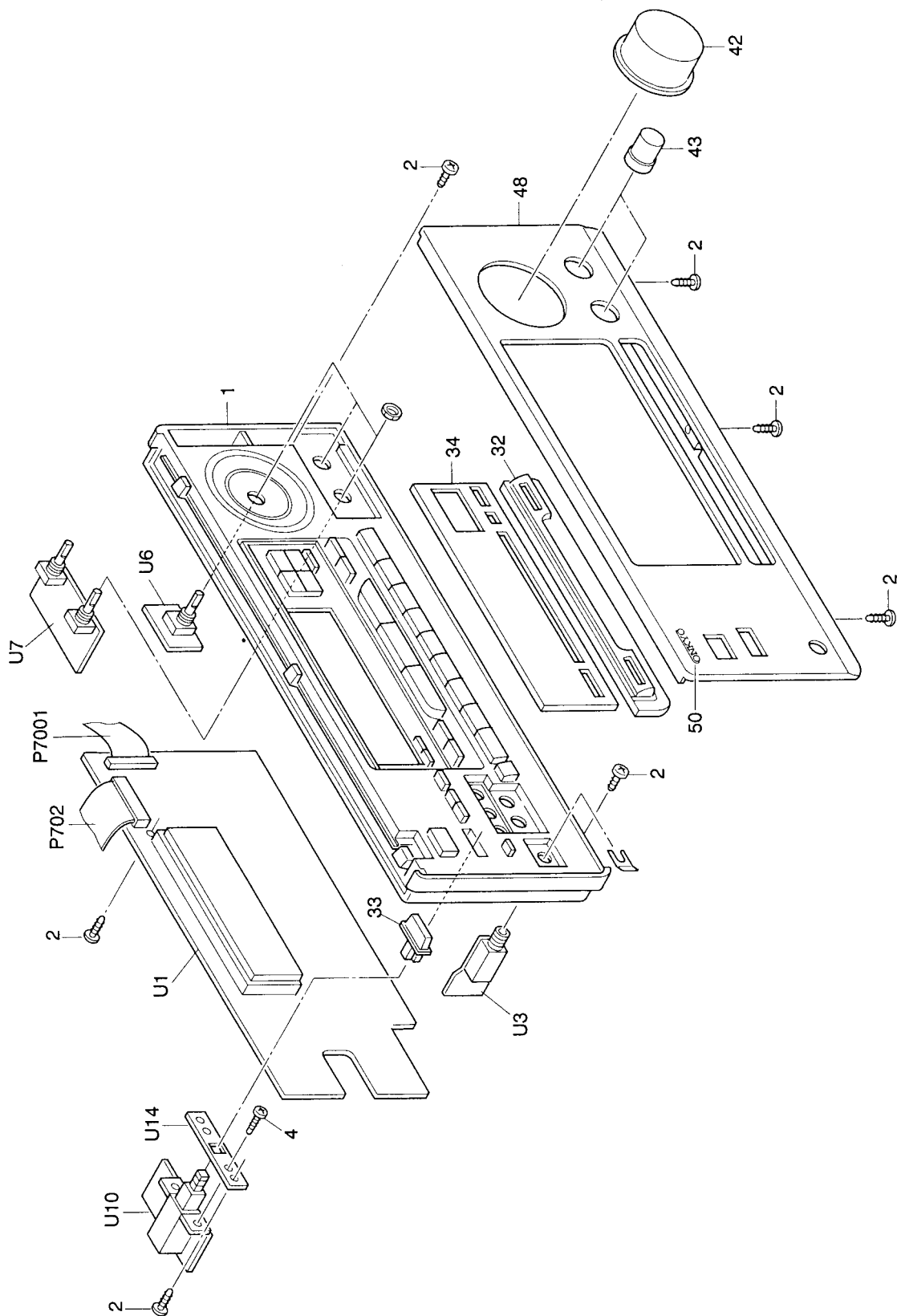
SCHEMATIC DIAGRAM



CHASSIS EXPLODED VIEW MODEL TX-DS484



CHASSIS EXPLODED VIEW (FRONT SECTION) MODEL TX-DS484



CHASSIS EXPLODED VIEW PARTS LIST (TX-DS484)

REF.NO.	PART NO.	DESCRIPTION	REF.NO.	PART NO.	DESCRIPTION
1	27111150	Front bracket	49	29110029	Double faced tape
	27111151	Front bracket<S>	50	28135244Y	Badge
	27111152	Front bracket<G>		28135245Y	Badge<S, G>
2	838130088	3TTTB+8B, Self tapping screw	D910	22380038 or	RBV602 or
4	82143010	3P+10FN(BC), Self tapping screw		22380274	RS603M, Diode
6	27100368B	Chassis	E801	260208	Wire tie
7	27190266	KGLS-12RF, Holder	E811	223024	AC238, Isolated sheet
8	27190428A	KGLS-10RF, Holder	E891	880048	Plastic rivet<P, PT, A>
12	83040089	4TTC+8C(BC), Self tapping screw	F911	252166	△ 6.3A-UL/T-237, Fuse<D, WT, R>
14	27300750	△ Bushing, cord	F922	252077 or	△ 4A-SE-EAK or
15	27160435	Heat sink L		252243	△ 4A-SE-TL250V, Fuse<P, PT, WT, R, A, K>
16	29110083	Adhesive tape	F933	252075 or	△ 2.5A-SE-EAK or
17	801433	3SMS8W.SW+14B(BC), Special screw		252241	△ 2.5A-SE-TL250V, Fuse<P, PT, K>
18	27141681	Retainer PWB	P101	2047152012	NCFC7-152012, Flexible flat cable
20	27141735	Retainer, Rear	P702	2047202022	NCFC7-202022, Flexible flat cable
21	27141734	Retainer, Front	P7001	2047252012	NCFC7-252012, Flexible flat cable
24	27160436A	Heat sink S	P901	253193HIT or	△ AS-CEE or
27	27141729	Retainer S		253195MAR	△ AS CEE, Power supply cord<P, PT>
28	838430068	3TTTB+6B(BC), Self tapping screw		253197HIT	△ AS-SAA, Power supply cord<A>
32	27215334	Decorative frame		253213WSE	△ AS-KS, Power supply cord<K>
	27215335	Decorative frame<S>		253233KAW	△ AS-CEE-2, Power supply cord<WT>
	27215336	Decorative frame<G>		253279HIT or	△ AS-UC-2#18 or
33	28325497A	Knob, power		253280VOL	△ AS-UC-2#18, Power supply cord<D>
	28325547A	Knob, power<S>		253285HIT or	△ AS-CCEE or
	28325499A	Knob, power<G>		253267KAW or	△ AS-CCEE or
34	28191871	Clear plate	P991,P992	253286VOL	△ AS-CCEE, Power supply cord<R>
	28191872	Clear plate<S, G>	Q1512	25051266	△ NSCT-2P1056, Socket<K>
36	28184663Y	Top cover		2202253 or	* 2SC4467-O or
	28184666Y	Top cover<S>		2202254 or	* 2SC4467-Y or
	28184682Y	Top cover<G>		2202256 or	* 2SC4467-P or
37	28141408	Cushion		2203042 or	* 2SC5197-R or
38	838430088	3TTTB+8B(BC), Self tapping screw		2203043 or	* 2SC5197-O or
	838930088	3TTTB+8B(UN), Self tapping screw<S, G>		2203502 or	NS KTD718-R or
39	27175319A	Leg	Q1513	2203503	NS KTD718-O, Transistor
40	28141332	Cushion for Leg		2202243 or	* 2SA1694-O or
41	831430088	3TTTW+8B(BC), Self tapping screw		2202244 or	* 2SA1694-Y or
42	28325641	Knob, Volume		2202246 or	* 2SA1694-P or
	28325642	Knob, Volume<S>		2203032 or	* 2SA1940-R or
	28325643	Knob, Volume<G>		2203033 or	* 2SA1940-O or
43	28325405	Knob, Tone		2203492 or	NS KTB688-R or
	28325474	Knob, Tone<S>		2203493	NS KTB688-O, Transistor
	28325407	Knob, Tone<G>	Q517,Q518	2212653 or	* 2SC3421-O or
45	27122671	Rear Panel<P>		2212654	* 2SC3421-Y, Transistor
	27122670A	Rear Panel<D>	Q523,Q524	2202254 or	* 2SC4467-Y or
	27122674	Rear Panel<R>		2202256 or	* 2SC4467-P or
	27122672	Rear Panel<PT>		2202253 or	* 2SC4467-O or
	27122673	Rear Panel<WT>		2203042 or	* 2SC5197-R or
	27122675	Rear Panel<A>		2203043 or	* 2SC5197-O or
	27122676	Rear Panel<K>		2203502 or	NS KTD718-R or
	W3*10F(BC), Flat washer			2203503	NS KTD718-O, Transistor
46	87643010	3TTTB+8B(UN), Self tapping screw	Q525,Q526	2202246 or	* 2SA1694-P or
47	838930088	Front Panel<P(S)>		2202243 or	* 2SA1694-O or
48	27212161	Front Panel<P(S)>		2202244 or	* 2SA1694-Y or
	27212163	Front Panel<D, WT(B), R(B), PT(B), A(B)>		2203032 or	* 2SA1940-R or
	27212160	Front Panel<WT(G), R(G), PT(G), K(G)>		2203033 or	* 2SA1940-O or
	27212162			2203492 or	NS KTB688-R or
				2203493	NS KTB688-O, Transistor

REF.NO.	PART NO.	DESCRIPTION	REF.NO.	PART NO.	DESCRIPTION
Q623, Q624	2202254 or 2202256 or 2202253 or 2203042 or 2203043 or 2203503 or 2203502	* 25C4467-Y or * 25C4467-P or * 25C4467-O or * 25C5197-R or * 25C5197-O or NS KTD718-O or NS KTD718-R, Transistor	U10	1A865583-1A 1A865583-1B 1A865583-1C 1A865583-1D 1A867583-1E 1A869583-1G 25136784	NASW-6783-1A, Power switch PC Board ass'y<D> NASW-6783-1B, Power switch PC Board ass'y<P, PT> NASW-6783-1C, Power switch PC Board ass'y<A> NASW-6783-1D, Power switch PC Board ass'y<WT> NASW-6783-1E, Power switch PC Board ass'y<K> NASW-6783-1G, Power switch PC Board ass'y<R> NCETC-6784-1A, PC Board for Terminal
Q625, Q626	2202244 or 2202243 or 2202246 or 2203032 or 2203033 or 2203492 or 2203493	* 2SA1694-Y or * 2SA1694-O or * 2SA1694-P or * 2SA1940-R or * 2SA1940-O or NS KTB688-R or NS KTB688-O, Transistor	U11 U12	1A865585-1A 1A865585-1B 1A865585-1C 1A865585-1D 1A867585-1E 1A869585-1G 1A865586-1A 1A865586-1B 1A865586-1C 1A865586-1D 1A867586-1E 1A869586-1G 25136787	NAPS-6785-1A, Regulator circuit PC Board ass'y<D> NAPS-6785-1B, Regulator circuit PC Board ass'y<P, PT> NAPS-6785-1C, Regulator circuit PC Board ass'y<A> NAPS-6785-1D, Regulator circuit PC Board ass'y<WT> NAPS-6785-1E, Regulator circuit PC Board ass'y<K> NAPS-6785-1G, Regulator circuit PC Board ass'y<R> NAPS-6786-1A, Primary circuit PC Board ass'y<D> NAPS-6786-1B, Primary circuit PC Board ass'y<P, PT> NAPS-6786-1C, Primary circuit PC Board ass'y<A> NAPS-6786-1D, Primary circuit PC Board ass'y<WT> NAPS-6786-1E, Primary circuit PC Board ass'y<K> NAPS-6786-1G, Primary circuit PC Board ass'y<R> NCETC-6787-1A, PC board for holder
T901	2301438 2301440 2301441	△ NPT-1384D, Power transformer<D> △ NPT-1384P, Power transformer<P, PT, A> △ NPT-1384DG, Power transformer<R, WT, K>	U13	1A865589-1A 1A865589-1B 1A865589-1C 1A865590-1A 1A865590-1B 1A865590-1C 1A865591-1A 1A865591-1B 1A865591-1C 1A865592-1A 1A865592-1B 1A865592-1C 1A865593-1A 1A865593-1B 1A865593-1C 1A865594-1A 1A865594-1B 1A865594-1C 1A865595-1A 1A865595-1B 1A865595-1C 1A865596-1A 1A865596-1B 1A865596-1C 240134 240135	NAAF-6789-1A, Front Power amplifier PC Board ass'y<D> NAAF-6789-1B, Front Power amplifier PC Board ass'y<P, PT, A, K> NAAF-6789-1C, Front Power amplifier PC Board ass'y<WT, R> NAAF-6790-1A, Center/Surround power amplifier PC Board ass'y<D> NAAF-6790-1B, Center/Surround power amplifier PC Board ass'y<P, PT, A, K> NAAF-6790-1C, Center/Surround power amplifier PC Board ass'y<WT, R> NAETC-6791-1A, Front speaker terminal PC Board ass'y<D> NAETC-6791-1B, Front speaker terminal PC Board ass'y<P, PT, A, K> NAETC-6791-1C, Front speaker terminal PC Board ass'y<WT, R> NAETC-6792-1A, Center/Surround speaker terminal PC Board ass'y<D> NAETC-6792-1B, Center/Surround speaker terminal PC Board ass'y<P, PT, A, K> NAETC-6792-1C, Center/Surround speaker terminal PC Board ass'y<WT, R> NAAF-6793-1A, Multi channel input PC Board ass'y<P, PT, A, K> NAAF-6793-1B, Multi channel input PC Board ass'y<WT, R> NAAF-6793-1C, Multi channel input PC Board ass'y<D> NAETC-6794-1A, Holder PC Board ass'y<P, PT, A, K> NAETC-6794-1B, Holder PC Board ass'y<WT, R> NAETC-6795-1A, Secondary PC Board ass'y<D> NAETC-6795-1B, Secondary PC Board ass'y<P, PT, A, K> NAETC-6795-1C, Secondary PC Board ass'y<WT, R> NAETC-6796-1A, Holder PC Board ass'y<D> NAETC-6796-1B, Holder PC Board ass'y<P, PT, A, K> NAETC-6796-1C, Holder PC Board ass'y<WT, R> TFCEIU114A, Tuner unit<D> TFCEIE512A, Tuner unit<P, PT, A, WT, R, K>
U1	1A865572-1A 1A865572-1B 1A865572-1C 1A865572-1D 1A865572-1E 1A865573-1A 1A865573-1B 1A865573-1C 1A865573-1D 1A865573-1E 1A865574-1A 1A865574-1B 1A865574-1C 1A865574-1D 1A865574-1E 1A865575-1A 1A865575-1B 1A865575-1C 1A865575-1D 1A865575-1E 1A865577-1A 1A865577-1B 1A865577-1C 1A865577-1D 1A865577-1E 1A865578-1A 1A865578-1B 1A865578-1C 1A865578-1D 1A865578-1E 1A865582-1A 1A865582-1B 1A865582-1C 1A865582-1D 1A865582-1E 1A869582-1G	NADIS-6772-1A, Display circuit PC Board ass'y<D> NADIS-6772-1B, Display circuit PC Board ass'y<P> NADIS-6772-1C, Display circuit PC Board ass'y<PT, A> NADIS-6772-1D, Display circuit PC Board ass'y<WT, R> NADIS-6772-1E, Display circuit PC Board ass'y<K> NAAR-6773-1A, Surround switch PC Board ass'y<D> NAAR-6773-1B, Surround switch PC Board ass'y<P> NAAR-6773-1C, Surround switch PC Board ass'y<PT, A> NAAR-6773-1D, Surround switch PC Board ass'y<WT, R> NAAR-6773-1E, Surround switch PC Board ass'y<K> NAETC-6774-1A, Head phone PC Board ass'y<D> NAETC-6774-1B, Head phone PC Board ass'y<P> NAETC-6774-1C, Head phone PC Board ass'y<PT, A> NAETC-6774-1D, Head phone PC Board ass'y<WT, R> NAETC-6774-1E, Head phone PC Board ass'y<K> NAETC-6775-1A, Digital input PC Board ass'y<D> NAETC-6775-1B, Digital input PC Board ass'y<P> NAETC-6775-1C, Digital input PC Board ass'y<PT, A> NAETC-6775-1D, Digital input PC Board ass'y<WT, R> NAETC-6775-1E, Digital input PC Board ass'y<K> NAETC-6777-1A, Volume PC Board ass'y<D> NAETC-6777-1B, Volume PC Board ass'y<P> NAETC-6777-1C, Volume PC Board ass'y<PT, A> NAETC-6777-1D, Volume PC Board ass'y<WT, R> NAETC-6777-1E, Volume PC Board ass'y<K> NAETC-6778-1A, Tone control PC Board ass'y<D> NAETC-6778-1B, Tone control PC Board ass'y<P> NAETC-6778-1C, Tone control PC Board ass'y<PT, A> NAETC-6778-1D, Tone control PC Board ass'y<WT, R> NAETC-6778-1E, Tone control PC Board ass'y<K> NADG-6780-1A, DSP Circuit PC Board ass'y NAAF-6782-1A, Selector circuit PC Board ass'y<D> NAAF-6782-1B, Selector circuit PC Board ass'y<P, PT> NAAF-6782-1C, Selector circuit PC Board ass'y<A> NAAF-6782-1D, Selector circuit PC Board ass'y<WT> NAAF-6782-1E, Selector circuit PC Board ass'y<K> NAAF-6782-1G, Selector circuit PC Board ass'y<R>	U14 U15 U16 U17 U18 U19 U20 U21 U22 U23	1A865583-1A 1A865583-1B 1A865583-1C 1A865583-1D 1A867583-1E 1A869583-1G 25136784 1A865585-1A 1A865585-1B 1A865585-1C 1A865585-1D 1A867585-1E 1A869585-1G 1A865586-1A 1A865586-1B 1A865586-1C 1A865586-1D 1A867586-1E 1A869586-1G 25136787 1A865589-1A 1A865589-1B 1A865589-1C 1A865590-1A 1A865590-1B 1A865590-1C 1A865591-1A 1A865591-1B 1A865591-1C 1A865592-1A 1A865592-1B 1A865592-1C 1A865593-1A 1A865593-1B 1A865593-1C 1A865594-1A 1A865594-1B 1A865594-1C 1A865595-1A 1A865595-1B 1A865595-1C 1A865596-1A 1A865596-1B 1A865596-1C 240134 240135	NASW-6783-1A, Power switch PC Board ass'y<D> NASW-6783-1B, Power switch PC Board ass'y<P, PT> NASW-6783-1C, Power switch PC Board ass'y<A> NASW-6783-1D, Power switch PC Board ass'y<WT> NASW-6783-1E, Power switch PC Board ass'y<K> NASW-6783-1G, Power switch PC Board ass'y<R> NCETC-6784-1A, PC Board for Terminal NAPS-6785-1A, Regulator circuit PC Board ass'y<D> NAPS-6785-1B, Regulator circuit PC Board ass'y<P, PT> NAPS-6785-1C, Regulator circuit PC Board ass'y<A> NAPS-6785-1D, Regulator circuit PC Board ass'y<WT> NAPS-6785-1E, Regulator circuit PC Board ass'y<K> NAPS-6785-1G, Regulator circuit PC Board ass'y<R> NAPS-6786-1A, Primary circuit PC Board ass'y<D> NAPS-6786-1B, Primary circuit PC Board ass'y<P, PT> NAPS-6786-1C, Primary circuit PC Board ass'y<A> NAPS-6786-1D, Primary circuit PC Board ass'y<WT> NAPS-6786-1E, Primary circuit PC Board ass'y<K> NAPS-6786-1G, Primary circuit PC Board ass'y<R> NCETC-6787-1A, PC board for holder NAAF-6789-1A, Front Power amplifier PC Board ass'y<D> NAAF-6789-1B, Front Power amplifier PC Board ass'y<P, PT, A, K> NAAF-6789-1C, Front Power amplifier PC Board ass'y<WT, R> NAAF-6790-1A, Center/Surround power amplifier PC Board ass'y<D> NAAF-6790-1B, Center/Surround power amplifier PC Board ass'y<P, PT, A, K> NAAF-6790-1C, Center/Surround power amplifier PC Board ass'y<WT, R> NAETC-6791-1A, Front speaker terminal PC Board ass'y<D> NAETC-6791-1B, Front speaker terminal PC Board ass'y<P, PT, A, K> NAETC-6791-1C, Front speaker terminal PC Board ass'y<WT, R> NAETC-6792-1A, Center/Surround speaker terminal PC Board ass'y<D> NAETC-6792-1B, Center/Surround speaker terminal PC Board ass'y<P, PT, A, K> NAETC-6792-1C, Center/Surround speaker terminal PC Board ass'y<WT, R> NAAF-6793-1A, Multi channel input PC Board ass'y<P, PT, A, K> NAAF-6793-1B, Multi channel input PC Board ass'y<WT, R> NAAF-6793-1C, Multi channel input PC Board ass'y<D> NAETC-6794-1A, Holder PC Board ass'y<P, PT, A, K> NAETC-6794-1B, Holder PC Board ass'y<WT, R> NAETC-6795-1A, Secondary PC Board ass'y<D> NAETC-6795-1B, Secondary PC Board ass'y<P, PT, A, K> NAETC-6795-1C, Secondary PC Board ass'y<WT, R> NAETC-6796-1A, Holder PC Board ass'y<D> NAETC-6796-1B, Holder PC Board ass'y<P, PT, A, K> NAETC-6796-1C, Holder PC Board ass'y<WT, R> TFCEIU114A, Tuner unit<D> TFCEIE512A, Tuner unit<P, PT, A, WT, R, K>

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

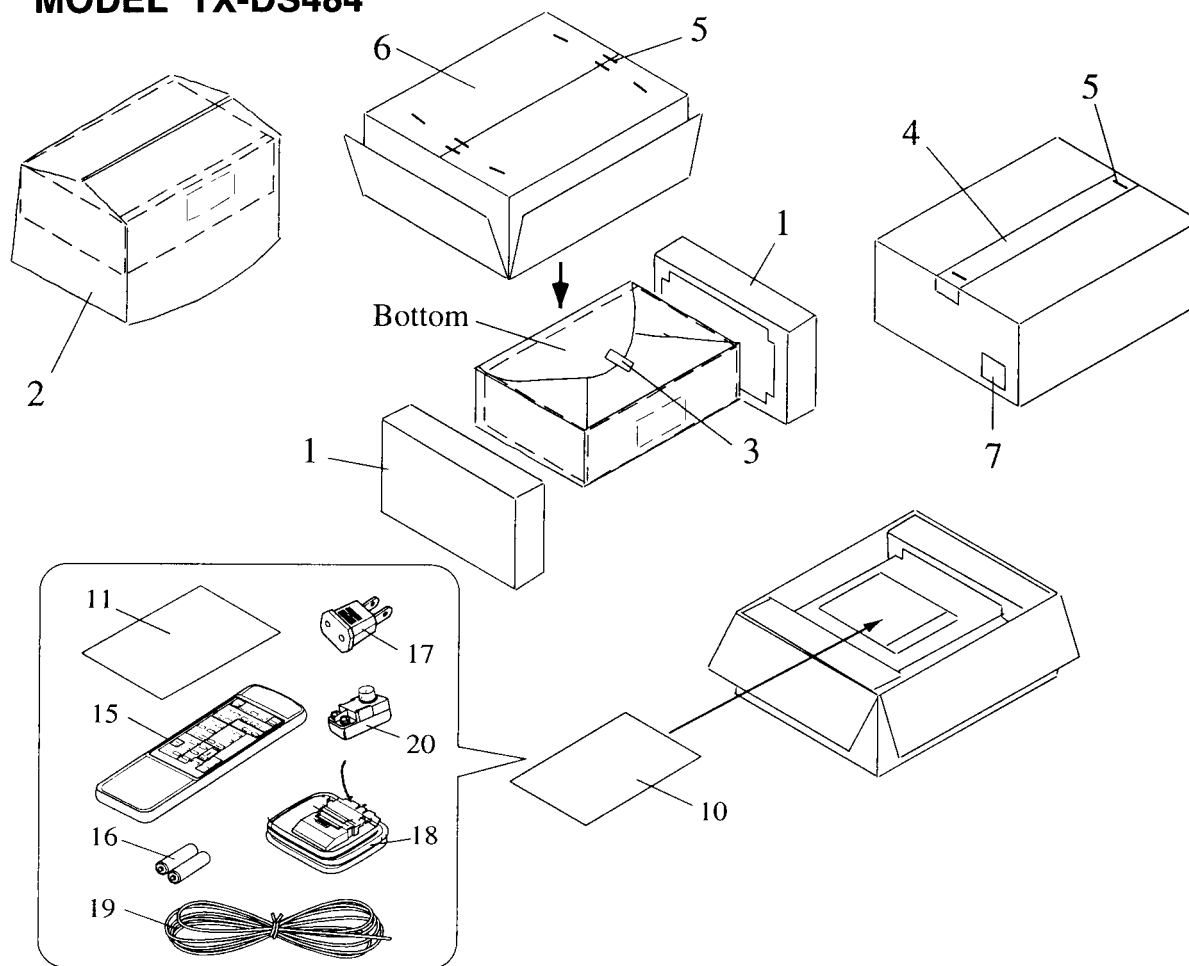
CAUTION : Replacement of the transistor of mark * ,if necessary, must be
made from the same beta group(HFE) as the original type.

NS : No Spare Part

<D> : 120V Model only
<P> : European Model only
<WT> : Taiwanese Model only
<PT> : Asian Model only
<R> : Chinese Model only
<A> : Australian Model only
<K> : Korean Model only
 : Black Model only
<S> : Silver Model only
<G> : Golden Model only

PACKING VIEW

MODEL TX-DS484



PARTS LIST

REF. NO.	PART NO.	DESCRIPTION	
1	29091869B	Pad ass'y	
2	29100034-1A	850*650, Styrene bag	
3	261504	Paper tape	
4	29110071	PP tape	
5	282301	Staple	
6	29053539	Carton box<P(B)>	
	29053542	Carton box<P(S)>	
	29053538	Carton box<D>	
	29053540	Carton box<R(B), PT(B), WT(B), A(B)>	
	29053541	Carton box<R(G), PT(G), WT(G), K(G)>	
7	29362546	Label EAN <Except 120V model>	
	29362547	Label EAN<S> <Except 120V model>	
	29362549	Label UPC <D>	
	29362548	Label EAN<G>	
10	29100097-1A	350*250, Styrene bag	
11	29342828	Instruction manual E	
	29342829	Instruction manual U3GDSW<P>	
	29342831	Instruction manual T<PT, R, WT>	
	29342830	Instruction manual U3FSI<P>	
	29095866	Sheet, ONKYO<D>	
	29365083	Warranty card<D>	
	29342833	Instruction sheet E<D>	
	29355315	Instruction sheet E<K>	
15	24140427	RC-427S, Remote controller	
16	3010054	UM-3, Battery	
17	25055018 or	CV-K-1 or	
	25056005	CV-K-1, Conversion plug<WT>	
18	232140	NMA-3057, AM Loop antenna	
19	292115	FM antenna<P, R, WT, PT, A, K>	
	292142	FM antenna<D>	
20	25065462	YAE21-0237, Antenna adapter<P, R, WT, PT, A, K>	

<D> : 120V Model only
 <P> : European Model only
 <WT> : Taiwanese Model only
 <PT> : Asian Model only
 <R> : Chinese Model only
 <A> : Australian Model only
 <K> : Korean Model only

 : Black Model only
 <S> : Silver Model only
 <G> : Golden Model only