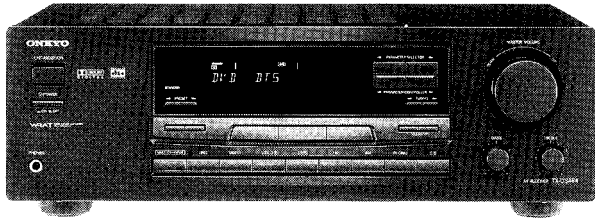
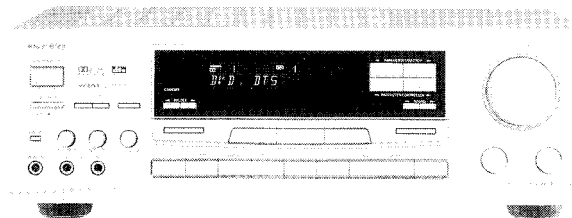


# ONKYO® SERVICE MANUAL

## 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  $\Delta$  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.

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# SPECIFICATIONS

## AMPLIFIER SECTION

Continuous Average Power output (FTC)	
All channels:	<b>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.</b>
	<b>70 watts min. RMS at 6 ohms, 2 channels driven from 1 kHz with no more than 0.1% total harmonic distortion.</b>
Continuous Power output (DIN)	75 watts × 5 at 6 ohms
Maximum Power output (EIAJ)	100 watts × 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, SURROUND 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, +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, output)
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## TUNER SECTION

### FM

Tuning Range:	87.5 — 108.0 MHz (50kHz steps)
Usable Sensitivity	
Mono:	11.2 dBf, 1.0 μV (75 ohms)
Stereo:	17.2 dBf, 2.0 μV (75 ohms)
50 dB Quieting Sensitivity	
Mono:	17.2 dBf, 2.0 μV (75 ohms)
Stereo:	37.2 dBf, 20 μV (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 μV
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 × H × D):	435 × 150 × 333 mm 17-1/8" × 5-7/8" × 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.

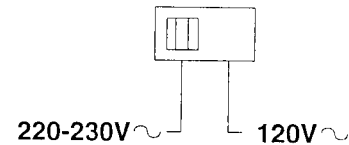
Specifications: 3.3 Mohm $\pm$ 10% at 500V.

## 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.



VOLTAGE SELECTOR

## 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.

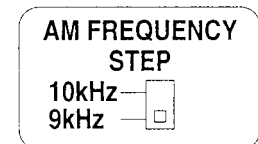
The unit must be plugged in and the power switch turned on and off once in order to charge the back-up system. Note that since this is not a permanent memory, the power switch must be turned on and off a few times each month the keep the back-up system operative.

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



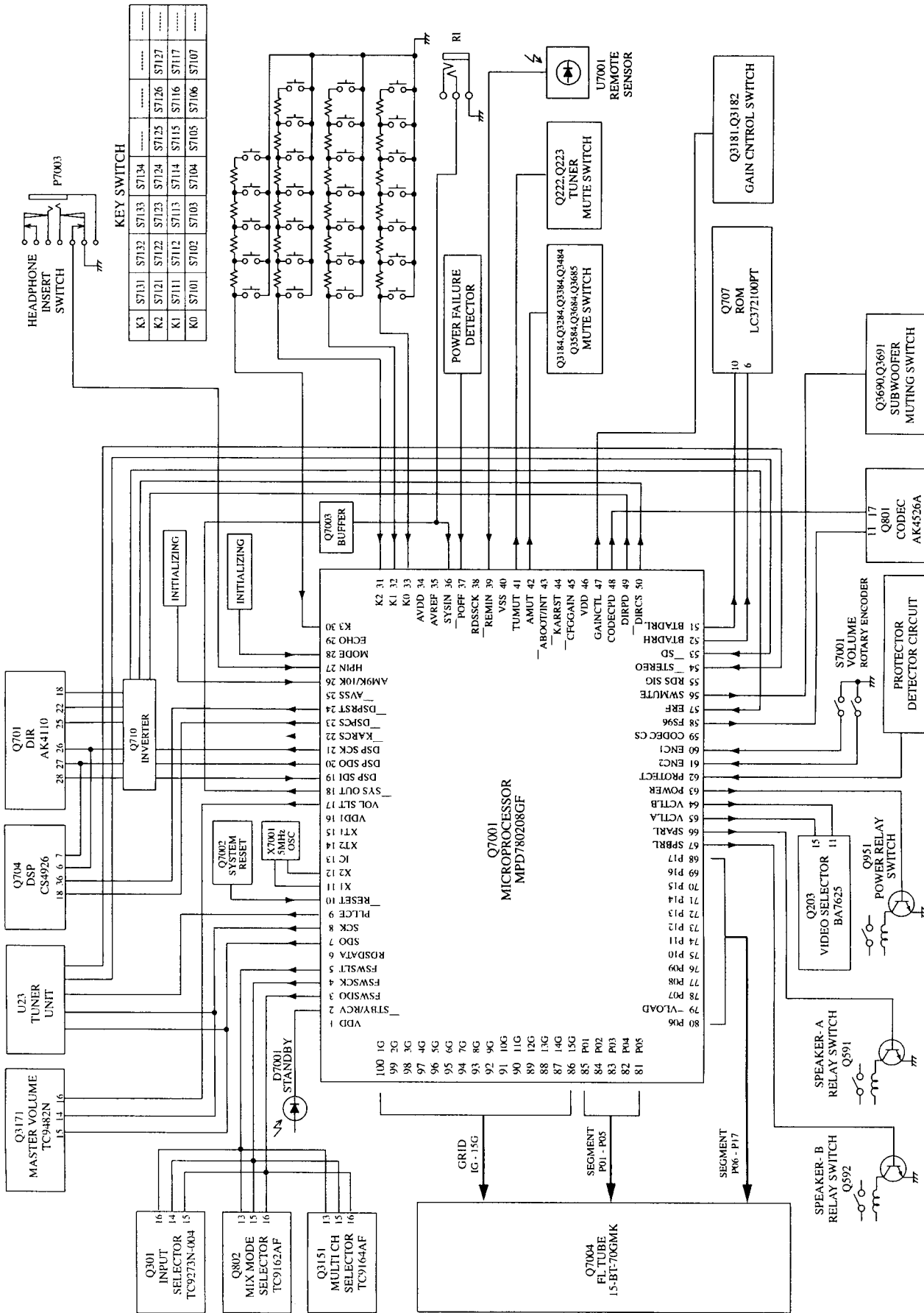
## 7. Changing the band step

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.

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

# MICROPROCESSOR-CONNECTION DIAGRAM

## MODEL TX-DS484



# MICROPROCESSOR-TERMINAL DESCRIPTION

## MODEL TX-DS484

### Q7001: $\mu$ 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	STANDBY/RECV	0	STANDBY/RECEIVED inductor control output terminal.	39	REMIN	1	Signal input terminal from remote sensor.
3	FSWSDO	0	Data output terminal to function switch ICs.	40	VSS	1	Power supply terminal (GND).
4	FSWSCK	0	Clock output terminal to function switch ICs.	41	TUMUT	0	Muting control output terminal for tuner section.
5	FSWSLT	0	Latch output terminal to function switch ICs.	42	AMUT	0	Muting control output terminal for amplifier section.
6	RDSDATA	1	Data input terminal from RDS decoder.	43	ABOOTH/INT	I/O	AUTOBOOT and INTREQ I/O terminal for DSP(CS4296).
7	SDO	0	Data output terminal to PLL IC and Master volume IC(TC9482N).	44	KARRST	0	Not used.
8	SCK	0	Clock output terminal to PLL IC and Master volume IC(TC9482N).	45	CFGAIN	0	Not used.
9	PLICE	0	Chip enable output terminal to PLL IC.	46	VDD	1	Power supply terminal (+5V).
10	RESET	1	System reset input terminal.	47	GAINCTL	0	Gain control output terminal.
11	X1	0	Ceramic oscillator connection terminals.	48	CODECPD	0	Power down signal output terminal to CODEC(AK4526).
12	X2	0	Connect 5.0MHz ceramic oscillator between the both terminals.	49	DIRPD	0	Power down signal output terminal to DIR (AK4110).
13	GND	1	Internal connection terminal (to GND)	50	DIRCS	0	Chip enable output terminal to DIR (AK4110).
14	X12	0	Sub-system clock output terminal. Not used.	51	BTADR1	0	Output terminal to set LSB position of address to boot ROM(1C372100).
15	X11	1	Sub-system clock input terminal. Not used.(to GND)	52	BTADRH	0	Output terminal to set MSB position of address to boot ROM(1C372100).
16	Vdd	1	Power supply terminal (+5V)	53	SD	1	Broadcast detection input terminal.
17	VOL_SLT	0	Latch output terminal to Master volume IC(TC9482N).	54	STEREO	1	Stereo broadcast detection input terminal.
18	SYSDOUT	0	System code output terminal.	55	RDSSIG	1	Signal input terminal from RDS decoder.
19	DSPSDI	1	Data input terminal from DIR(AK4110).	56	SWMUTE	0	SW Preout muting control output terminal for amplifier section.
20	DSPSDO	0	Data output terminal to DIR (AK4110).DSP(CS4926.)	57	ERF	1	ERF Signal input terminal from DIR(AK4110).
21	DSPSCK	0	Clock output terminal to DIR (AK4110).DSP(CS4926)	58	FS96	0	FS96 Signal output terminal to CODEC(AK4526)
22	KARCS	0	Not used.	59	CODECS	0	Not used.
23	DSPCS	0	Chip enable output terminal to DSP(CS4926).	60	ENC1	1	Volume control input terminal.
24	DSPRST	0	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	0	Relay control output terminal for power.
27	HPIN	1	Input terminal when the headphone is inserted.	64	VCTLB	0	Video selector control output terminal.
28	MODE	1	Initializing input terminal of operation mode..	65	VCTLA	0	Video selector control output terminal.
29	ECHO	1	Not used.	66	SPARL	0	Control output terminal for SPEAKER A relay.
30~33	K3~K0	1	Operation key connection terminals.	67	SPBRL	0	Control output terminal for SPEAKER B relay.
34	AVDD	1	Power supply terminal (+5V)	68~78	P17~P7	0	Segment output terminals for FL tube.
35	AVREF	1	Reference voltage terminal.	79	VLOAD		Power supply terminal for FL tube.
36	SVSIN	1	System code input terminal.	80~85	P6~P1	0	Segment output terminals for FL tube.
37	POFF	1	Power failure's detection terminal.	86~100	15G~1G	0	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
	<b>FL tube</b>	
Q7004	212207	15-BT-70GNK
	<b>Remote Sensor</b>	
U7001	241305 or 241332	GP1U281X or PIC-28143TE5
	<b>ICs</b>	
Q1001	22241297R2	BU1923F <P>
Q7001	22241439	MPD780208GF-063-3BA
Q7802	22241383R2	NJM4565M-D <570R>
	<b>Transistors</b>	
Q7002	2214490R2	RN1404
Q7003	2214540R2	RN2403
	<b>Diodes</b>	
D1001	223234R2	1SS352 <P>
D7001	225290	SEL4110R,LED
D7002,D7003	223234R2	1SS352
D7004	224490560R2	UDZ5.6B
D7005,D7006	223234R2	1SS352
D7009	224490910R2	UDZ9.1B
	<b>Coils</b>	
L7001~L7003	231237K220R2	NCH-1477
	<b>Crystals</b>	
X1001	3010203	AF6146C <P>
X7001	3010242	CST5.00MGW
	<b>Capacitors</b>	
C1001	355780229	2.2 $\mu$ F,50V,Elect. <P>
C1003	355721019	100 $\mu$ F,6.3V,Elect. <P>
C7001	355780229	2.2 $\mu$ F,50V,Elect.
C7002	3000078	DX-5R5L104,Super Capacitor
C7004,C7005	355721019	100 $\mu$ F,6.3V,Elect.
C7008	355721019	100 $\mu$ F,6.3V,Elect.
C7009,C7010	355780109	1 $\mu$ F,50V,Elect.
C7015	355741009	10 $\mu$ F,16V,Elect.
C7018,C7019	355721019	100 $\mu$ F,6.3V,Elect.
C7020	375524744S	0.47 $\mu$ F $\pm$ 5%,50V,Plastic
C7820,C7821	355741009	10 $\mu$ F,16V,Elect. <570R>
C7822,C7826	355780229	2.2 $\mu$ F,50V,Elect. <570R>
	<b>Resistors</b>	
R7811,R7812	5104393	N11RL10KB17Z,Variable, Mic Level <570R>
R7822	5104393	N11RL10KB17Z,Variable, Echo Level <570R>
	<b>Plug</b>	
JL7001B	25055624	NPLG-3P586
	<b>Sockets</b>	
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>
	<b>Push switches</b>	
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>
	<b>FL Holder</b>	
Q7004A	27190989A	Holder (FL)

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

CIRCUIT NO.	PART NO.	DESCRIPTION
	<b>ICs</b>	
Q261	22241383R2	NJM4565M-D
Q931	222780565JRC	NJM78M56FA
Q934	222780055	78M05HF
Q3151	22241221R2	TC9164AF
Q3301,Q3501	22241383R2	NJM4565M-D
	<b>Transistors</b>	
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
	<b>Diodes</b>	
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
	<b>Capacitors</b>	
C222	354741009	10 $\mu$ F,16V,Elect.
C223,C226	354780339	3.3 $\mu$ F,50V,Elect.
C224	354780229	2.2 $\mu$ F,50V,Elect.
C267,C268	354741009	10 $\mu$ F,16V,Elect.
C269,C270	354721019	100 $\mu$ F,6.3V,Elect.
C273,C274	374728224	8200pF $\pm$ 5%,50V,Plastic
C275,C276	374721824	1800pF $\pm$ 5%,50V,Plastic
C277,C278	354744709	47 $\mu$ F,16V,Elect.
C279,C280	354741009	10 $\mu$ F,16V,Elect.
C3101,C3201	354784709	47 $\mu$ F,50V,Elect.
C3151,C3152	354744709	47 $\mu$ F,16V,Elect.
C3307,C3308	354741009	10 $\mu$ F,16V,Elect.
C923	3504213S	4700 $\mu$ F,35V,Elect.
C924	354761029S	1000 $\mu$ F,35V,Elect.
C933	354742229S	2200 $\mu$ F,16V,Elect.
C935,C943	354741009	10 $\mu$ F,16V,Elect.
C936,C937	354762219	220 $\mu$ F,35V,Elect.
	<b>Resistors</b>	
R921~R924	453532294	0.22 $\Omega$ $\pm$ 5%,1/2W,Metal
R925	453530274	2.7 $\Omega$ $\pm$ 5%,1/2W,Metal
R932	453530224	2.2 $\Omega$ $\pm$ 5%,1/2W,Metal
R933	453530104	1 $\Omega$ $\pm$ 5%,1/2W,Metal
R934	443522204	22 $\Omega$ $\pm$ 5%,1/2W,Metal
R941	443521804	18 $\Omega$ $\pm$ 5%,1/2W,Metal
	<b>Sockets</b>	
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	CIRCUIT NO.	PART NO.	DESCRIPTION
	<b>Plugs</b>			<b>Transistors</b>	
P242A	25055705	NPLG-9P661	Q201,Q204	2214373R2B or 2214374R2 or 2214375R2	2SA1162-O or 2SA1162-Y or 2SA1162-GR
P303A,P305A	25055805	NPLG-16P761		2215410R2	RN1441
P306A,P706A	25055701	NPLG-5P657	Q202,Q3690	2214540R2	RN2403
P704A	25055708	NPLG-12P664	Q3691		
P705A	25055712	NPLG-20P668		<b>Diodes</b>	
P707A,P304A	25055804	NPLG-4P760		D201,D202	1SS352
	<b>Terminals</b>			D801~D808	1SS352
P261	25045575 or 25045303	NPJ-4PDRW389 or NPJ-4PDBL162		<b>Coils</b>	
	<b>Heat sink</b>		L201	231237M022R2	NCH-1471
Q934A	27160145	RAD-51	L701~L703	231237M022R2	NCH-1471
			L710,L711	231237M022R2	NCH-1471 <570R>
			L720~L722	231237M022R2	NCH-1471
			L802,L803	231237M022R2	NCH-1471
				<b>Cores</b>	
			L704,L705	230921R2	BLM21B222SPT
				<b>Crystals</b>	
			X701	3010327	AT-4912.288MHz
			X702	3010324R2	CSTCV12.2MTJOC4
				<b>Capacitors</b>	
			C201~C203	354780229	2.2 $\mu$ F,50V,Elect.
			C205~C206	354724719	470 $\mu$ F,6.3V,Elect.
			C210	354721019	100 $\mu$ F,6.3V,Elect.
			C701~C708	354721019	100 $\mu$ F,6.3V,Elect.
			C724,C725	354721019	100 $\mu$ F,6.3V,Elect. <570R>
			C727~C731	354721019	100 $\mu$ F,6.3V,Elect. <570R>
			C740,C741	354721019	100 $\mu$ F,6.3V,Elect.
			C788~C791	354724719	470 $\mu$ F,6.3V,Elect.
			C807	354721019	100 $\mu$ F,6.3V,Elect.
			C810,C811	354721019	100 $\mu$ F,6.3V,Elect.
			C816,C817	374721524	1500pF $\pm$ 5%,50V,Plastic
			C825	354741009	10 $\mu$ F,16V,Elect.
			C827,C829	354744709	47 $\mu$ F,16V,Elect.
			C830,C831	354784709	47 $\mu$ F,50V,Elect.
			C832	374721544	0.15 $\mu$ F $\pm$ 5%,50V,Plastic
			C833	374721524	1500pF $\pm$ 5%,50V,Plastic
			C834,C836	374726834	0.068 $\mu$ F $\pm$ 5%,50V,Plastic
			C835,C837	374726814	680pF $\pm$ 5%,50V,Plastic
			C840,C842	354744709	47 $\mu$ F,16V,Elect.
			C844,C845	354784709	47 $\mu$ F,50V,Elect.
			C846,C847	374721524	1500pF $\pm$ 5%,50V,Plastic
			C848~C851	374726814	680pF $\pm$ 5%,50V,Plastic
			C854,C857	354744709	47 $\mu$ F,16V,Elect.
			C858,C859	354784709	47 $\mu$ F,50V,Elect.
			C860,C861	374721524	1500pF $\pm$ 5%,50V,Plastic
			C862~C865	374726814	680pF $\pm$ 5%,50V,Plastic
			C868,C871	354744709	47 $\mu$ F,16V,Elect.
			C880,C882	354744709	47 $\mu$ F,16V,Elect.
			C886	374721034	0.01 $\mu$ F $\pm$ 5%,50V,Plastic
			C889,C890	374721824	1800pF $\pm$ 5%,50V,Plastic <570R>
			C892	354741009	10 $\mu$ F,16V,Elect. <570R>
			C894,C896	354744709	47 $\mu$ F,16V,Elect.
			C3691	374721044	0.1 $\mu$ F $\pm$ 5%,50V,Plastic
				<b>Sockets</b>	
			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
				<b>Plug</b>	
			P703A	25055135	NPLG-5P119 <570R>
				<b>Terminals</b>	
			P201	25045567	NPJ-1PDBL382
			P202	25045315	NPJ-2PDYE172
			P203	25045299	NPJ-3PDYE158
<b>HEAD PHONE PC BOARD (NAETC-6774-1A/1B/1C/1D/1E/1G)</b>					
CIRCUIT NO.	PART NO.	DESCRIPTION			
	<b>Socket</b>				
JL7003B	25051089	NSCT-5P876			
	<b>Terminal</b>				
P7003	25045385	YKB26-5153, Head Phones <570R>			
	25045514	YKB26-5005, Head Phones <484>			
<b>DIGITAL INPUT PC BOARD (NAETC-6775-1A/1B/1C/1D/1E/1G)</b>					
CIRCUIT NO.	PART NO.	DESCRIPTION			
	<b>Photo coupler</b>				
U7201	24120037	TORX178B, Photo coupler			
	<b>IC</b>				
Q7201	222740046R2TO	TC74HCU04F			
	<b>Coils</b>				
L7202,L7203	231237M022R2	NCH-1471			
	<b>Capacitor</b>				
C7203	354721019	100 $\mu$ F,6.3V,Elect.			
	<b>Plug</b>				
P701A	25055136	NPLG-6P120			
	<b>Terminals</b>				
P7202,P7203	25045473	NPJ-1PDBL291			
<b>MIC. INPUT TERMINAL PC BOARD (NAETC-6776-1G)B</b>					
CIRCUIT NO.	PART NO.	DESCRIPTION			
	<b>IC</b>				
Q7801	22240051R2	NJM2068M <570R>			
	<b>Capacitors</b>				
C7801,C7802	354741009	10 $\mu$ F,16V,Elect. <570R>			
C7809,C7810	354741009	10 $\mu$ F,16V,Elect. <570R>			
	<b>Plug</b>				
JL7801B	25055626	NPLG-5P588 <570R>			
	<b>Terminals</b>				
P7801,P7802	25045574	YKB22-5176, Mic Jack<570R>			
<b>VOLUME PC BOARD (NAETC-6777-1A/1B/1C/1D/1E/1G)</b>					
CIRCUIT NO.	PART NO.	DESCRIPTION			
	<b>Rotary encoder</b>				
S7001	25065575	EC16B2425, Master Volume			
	<b>Socket</b>				
JL7001A	25051087	NSCT-3P874			
<b>TONE CONTROL VOLUME PC BOARD (NAETC-6778-1A/1B/1C/1D/1E/1G)</b>					
CIRCUIT NO.	PART NO.	DESCRIPTION			
	<b>Capacitors</b>				
C391,C392	374721534	0.015 $\mu$ F $\pm$ 5%,50V,Plastic			
	<b>Resistors</b>				
R391,R392	5104356	N14RLC100KWT20Z,Bass/Treble			
	<b>Plug</b>				
P391A	25055139	NPLG-9P123			
<b>DSP CIRCUIT PC BOARD (NADG-6780-1A/1B)</b>					
CIRCUIT NO.	PART NO.	DESCRIPTION			
	<b>ICs</b>				
Q203	22240373	BA7625			
Q701	22241338R2	AK4110VF			
Q702	22241131R3	TC9409BF001 <570R>			
Q703	22241399R2	TC7WU04F			
Q704	22241340R9	CS492604-CL			
Q705,Q706	22274574ER2TO	TC74VHCS74FT			
Q707	22241415R2	LC372100PT-K34-TLM			
Q708,Q710	222740077R2TO	TC74HCT7007AF			
Q709	22278033ENEC	MPC29M33HF			
Q801	22241341R3	AK4526A-VQ			
Q802	22240981R2	TC9162AF			
Q803~Q809	22241383R2	NJM4565M-D			

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

CIRCUIT NO.	PART NO.	DESCRIPTION
<b>ICs</b>		
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
<b>Transistors</b>		
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
<b>Diodes</b>		
D3182	223234R2	1SS352
<b>Capacitors</b>		
C315,C316	354744709	47 $\mu$ F,16V,Elect.
C321,C322	354784709	47 $\mu$ F,50V,Elect.
C323,C324	354744709	47 $\mu$ F,16V,Elect.
C3171,C3271	354781009	10 $\mu$ F,50V,Elect.
C3172,C3173	354744709	47 $\mu$ F,16V,Elect.
C3181,C3281	354782209	22 $\mu$ F,50V,Elect.
C3183,C3188	354744709	47 $\mu$ F,16V,Elect.
C3189,C3289	374721534	0.015 $\mu$ F $\pm$ 5%,50V,Plastic
C3190,C3196	354741009	10 $\mu$ F,16V,Elect.
C3194,C3195	354744709	47 $\mu$ F,16V,Elect.
C3283,C3288	354744709	47 $\mu$ F,16V,Elect.
C3290	354741009	10 $\mu$ F,16V,Elect.
C3371,C3381	354781009	10 $\mu$ F,50V,Elect.
C3388,C3488	354744709	47 $\mu$ F,16V,Elect.
C3394,C3395	354741009	10 $\mu$ F,16V,Elect.
C3471,C3481	354781009	10 $\mu$ F,50V,Elect.
C3571,C3581	354781009	10 $\mu$ F,50V,Elect.
C3588,C3688	354744709	47 $\mu$ F,16V,Elect.
C3594,C3595	354741009	10 $\mu$ F,16V,Elect.
C3671,C3681	354781009	10 $\mu$ F,50V,Elect.
C3687	374724734S	0.047 $\mu$ F $\pm$ 5%,50V,Plastic
<b>Sockets</b>		
P303,P305	25051527	NSCT-16P1314
P304	25051526	NSCT-4P1313
P306	25051230	NSCT-5P1020
P391	2009990579UL	NSAS-16P0788
P601	2009990575UL	NSAS-10P0784
<b>Terminals</b>		
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
<b>Capacitor</b>		
C901	3500196S	$\Delta$ RE275V-103M
<b>Push switch</b>		
S901	25035550	$\Delta$ NPS-111-L512P,Power Switch

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

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

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

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

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

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

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

CIRCUIT NO.	PART NO.	DESCRIPTION
<b>Diodes</b>		
D591, D592	223163 or 223205	1SS133 or 1SS270A
<b>Capacitors</b>		
C533~C536	374721034	0.01 μ F ±5%, 50V, Plastic <P,A,PT,WT,R,570R>
<b>Socket</b>		
P501	2009990572AUL	NSAS-14P0781
<b>Terminal</b>		
P502	25060296	NTM-8PDMN227, Front Speaker
<b>Relays</b>		
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
<b>Capacitors</b>		
C625, C626	374721034	0.01 μ F ±5%, 50V, Plastic <P,A,PT,WT,R,570R>
C1526	374721034	0.01 μ F ±5%, 50V, Plastic <P,A,PT,WT,R,570R>
<b>Socket</b>		
P602	2009990571AUL	NSAS-12P0780
<b>Terminal</b>		
P603	25060297	NTM-6PDMN228, Center/Surround Speaker

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

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

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

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

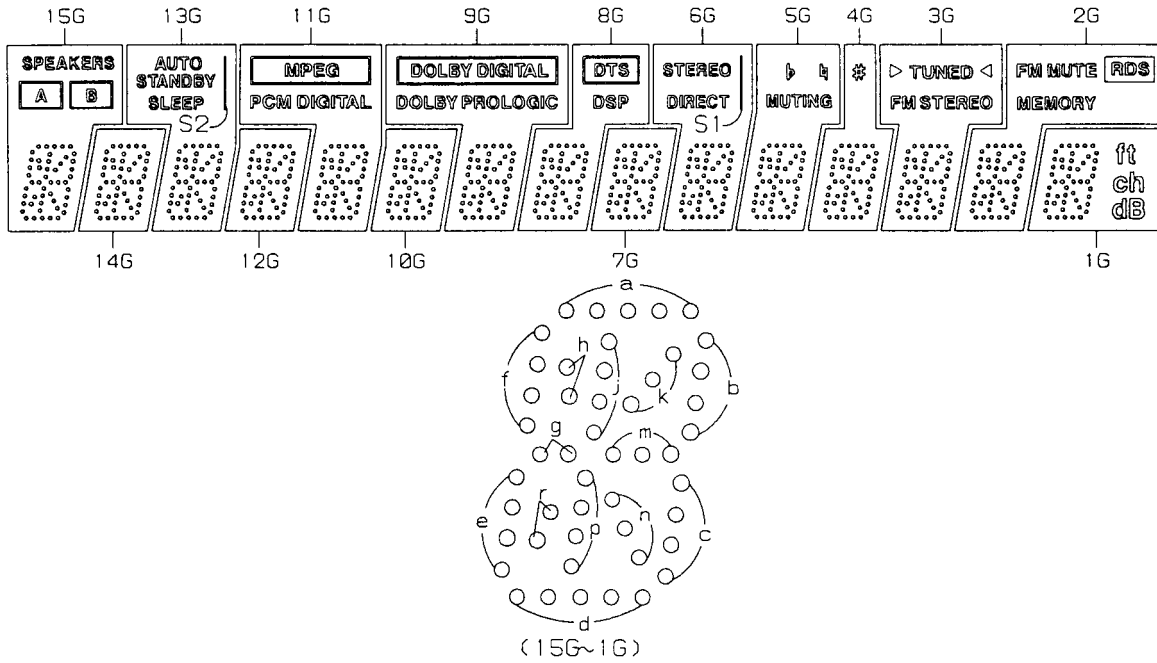
#### HOLDER PC BOARD (NAETC-6796-1A/1B/1C)

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  $\triangle$  ARE  
 CRITICAL FOR RISK OF FIRE AND ELECTRIC SHOCK.  
 REPLACE ONLY WITH PART NUMBER SPECIFIED.

# 15-BT-70GK (FL tube)

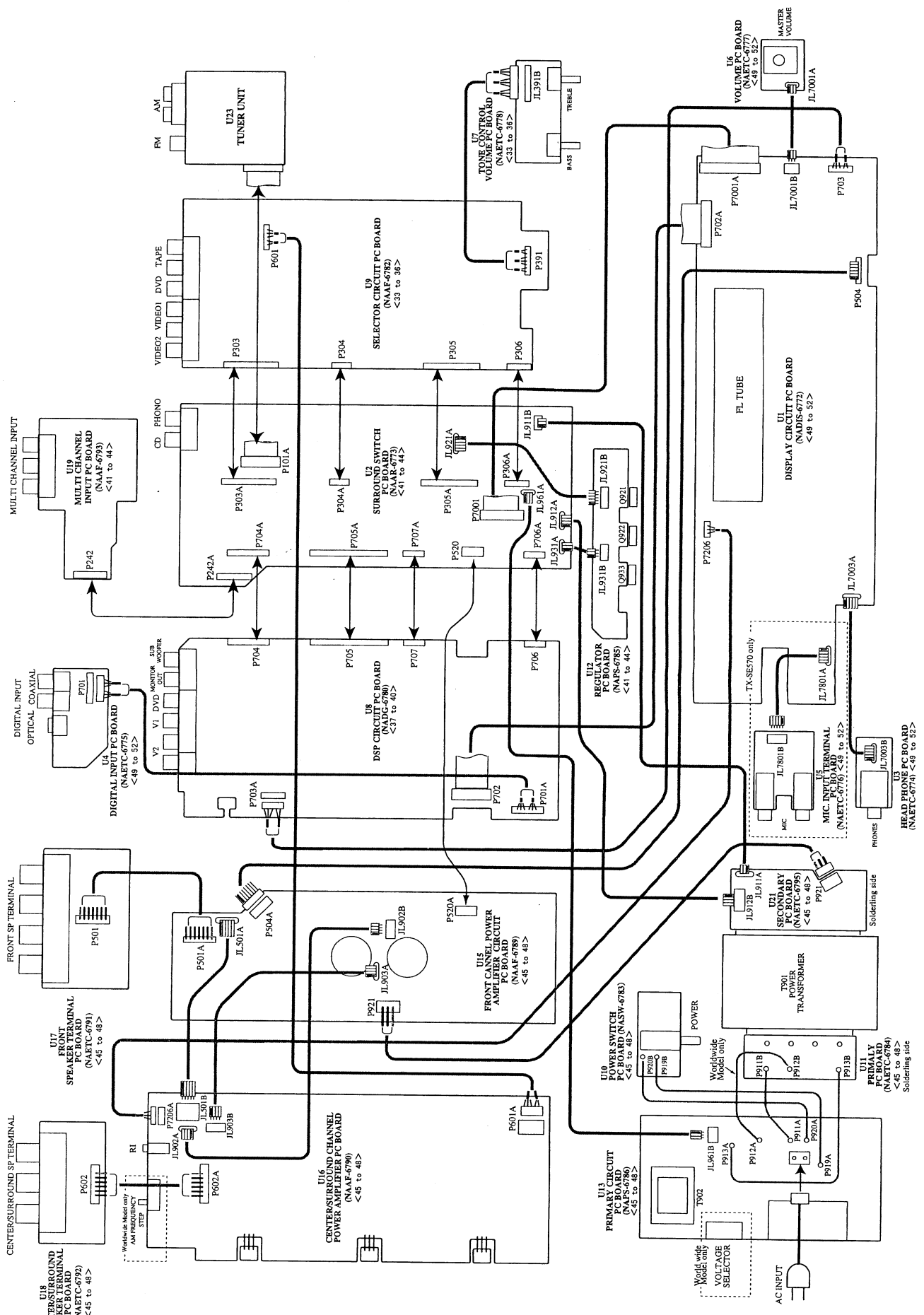


## ANODE CONNECTION

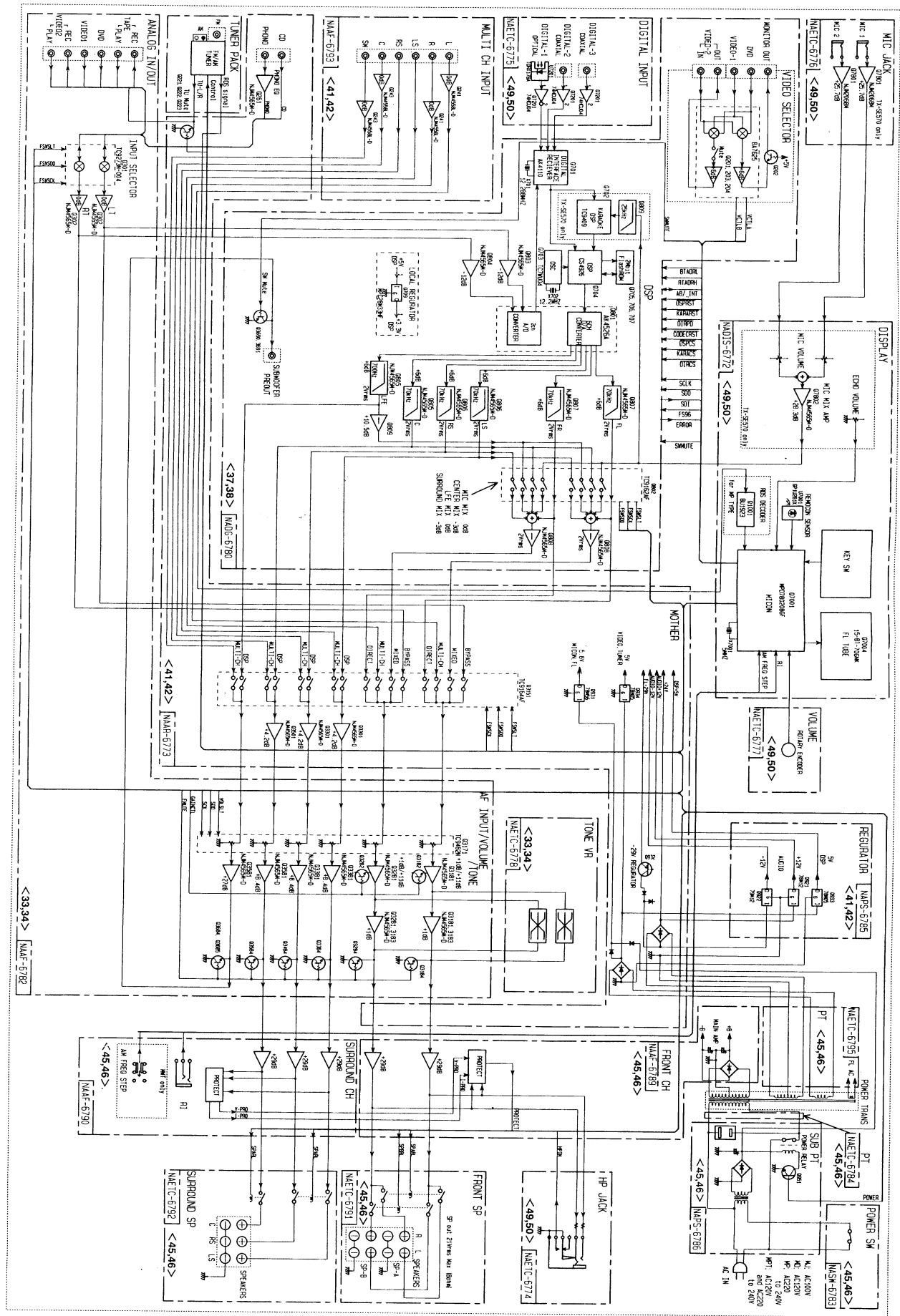
	15G	14G	13G	12G	11G	10G	9G	8G	7G	6G	5G	4G	3G	2G	1G
P1	SPEAKERS	-	AUTO STANDBY	-	MPEG	-	DOLBY DIGITAL	DTS	-	STEREO	h	#	TUNED	RDS	dB
P2	A	-	SLEEP	-	(MPEG)	-	(DOLBY DIGITAL)	(DTS)	-	DIRECT	b	-	▷ ◁	FM MUTE	ch
P3	B	-	S2	-	PCM DIGITAL	-	DOLBY PROLOGIC	DSP	-	S1	MUTING	-	FM STEREO	MEMORY	ft
P4	a	a	a	a	a	a	a	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

# WIRING VIEW

Note: For the information about schematic diagram and PC board view, refer to the pages listed in the brackets (< >).



# BLOCK DIAGRAM



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

A B C D E F G H

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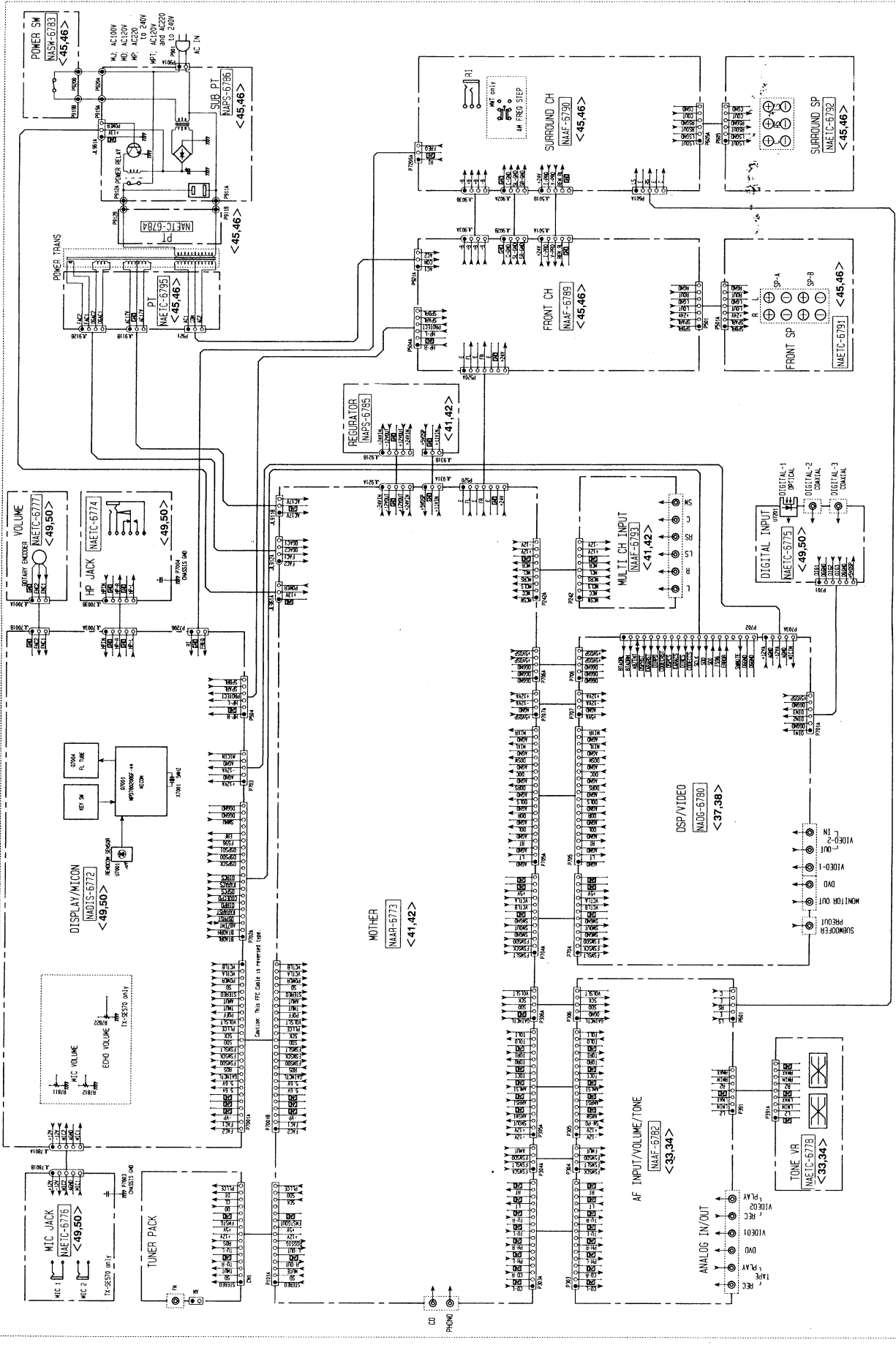
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WIRING BOARD DIAGRAM

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



A B C D E F G H

SCHEMATIC DIAGRAM

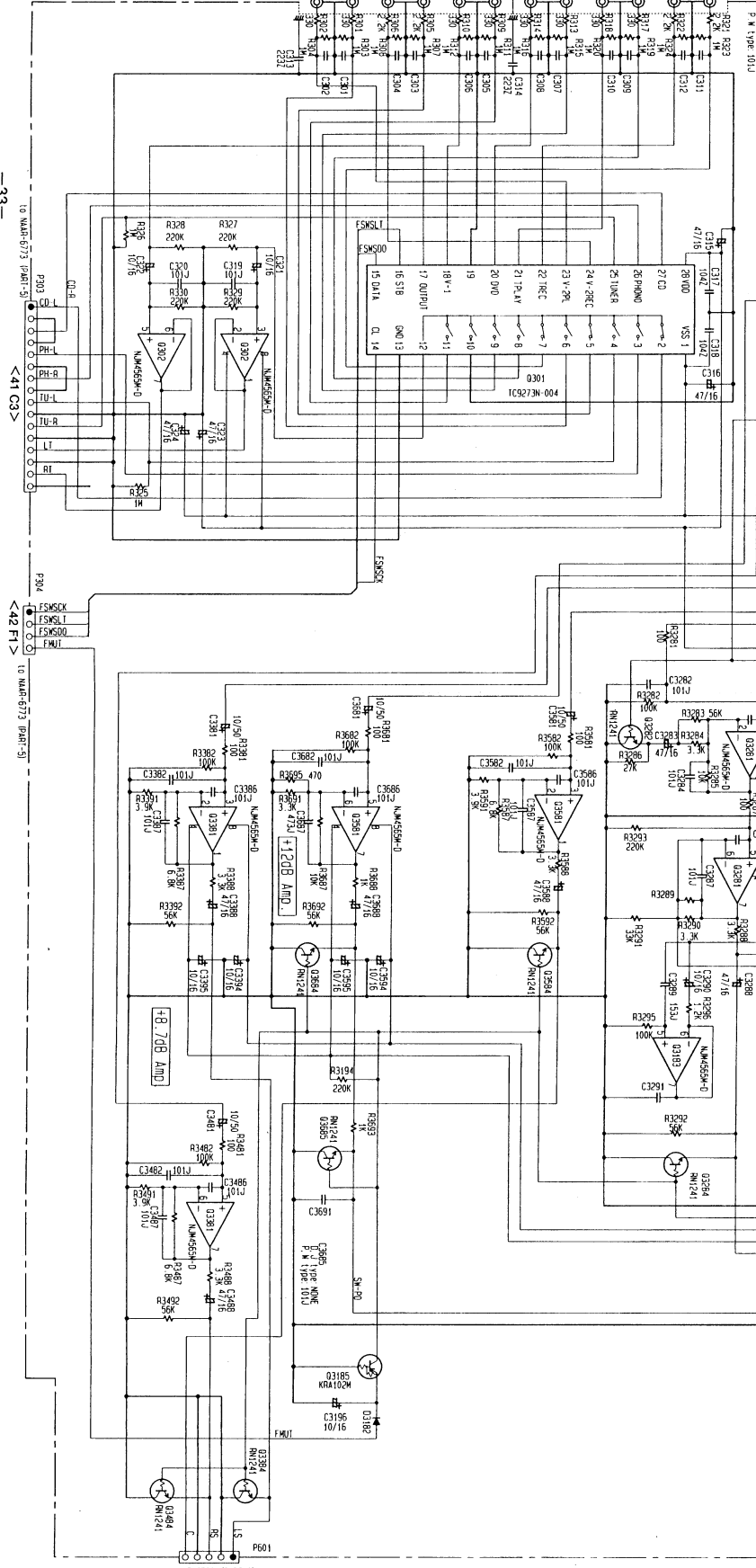
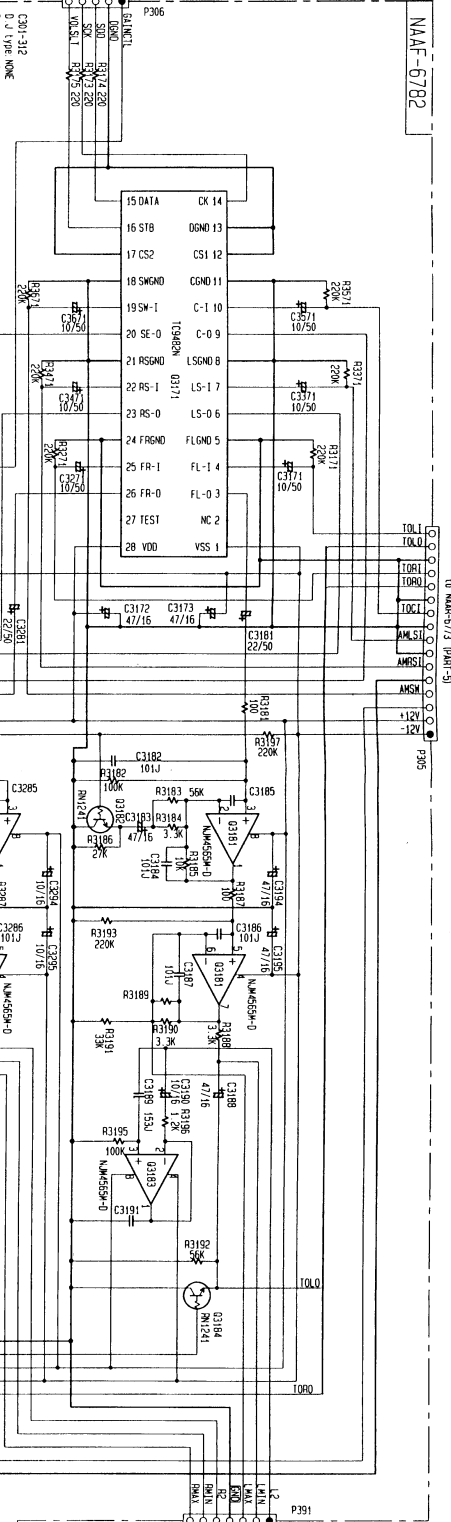
NAAF-6782

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TO NAAF-6773 PART-5

42 V >

to NAAF-6773 PART-5

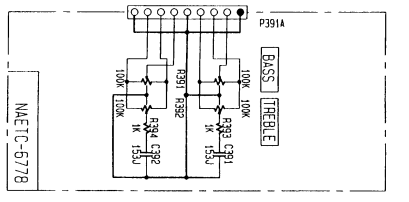


-33-

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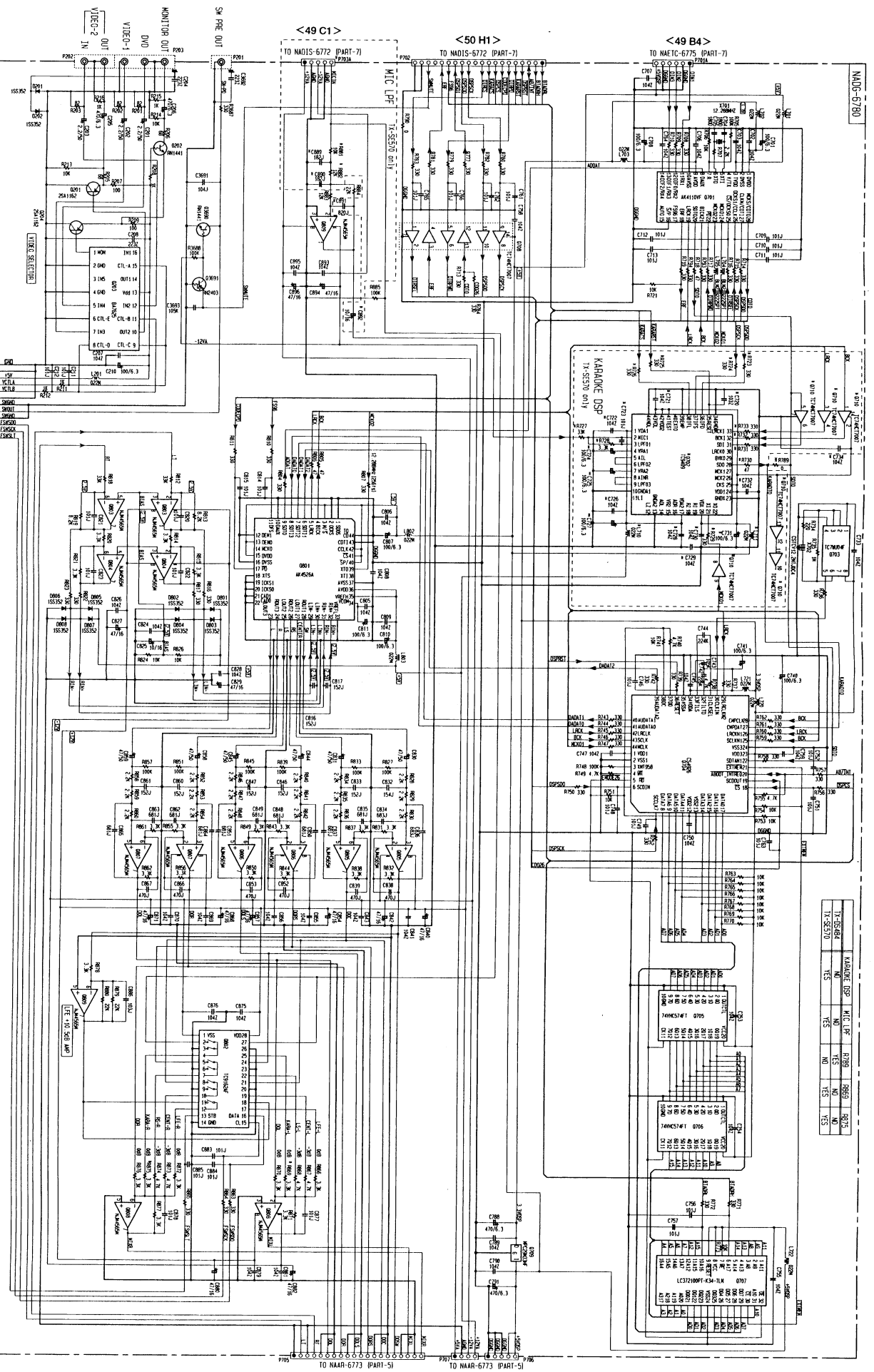
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NAAF-6790 (PART-6)



SCHEMATIC DIAGRAM

A B C D E F G H



Part	Value	Part	Value	Part	Value	Part	Value
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TX-S570	V55	V55	V55	V55	V55	V55	V55

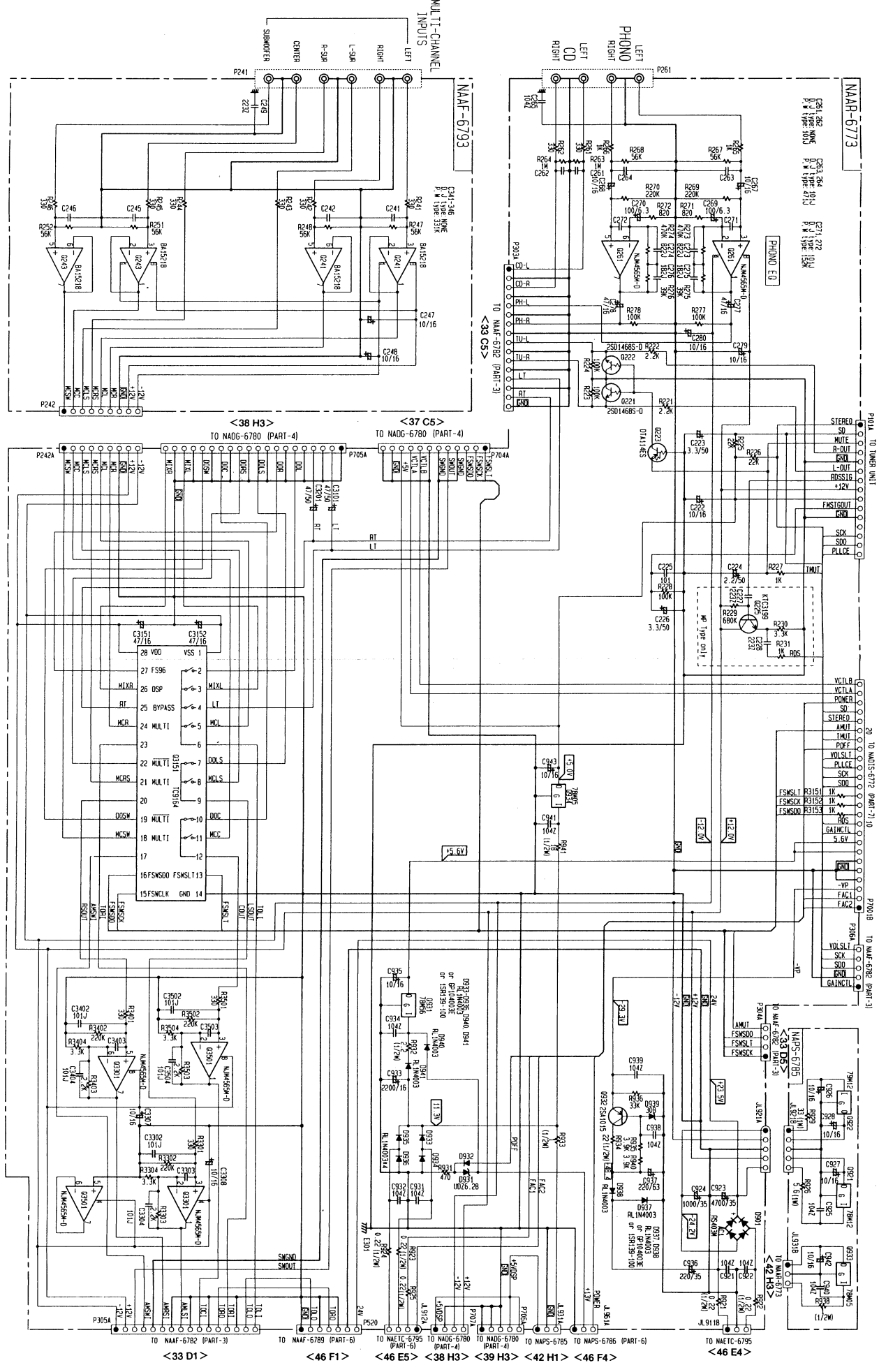
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1A0D54847 1A3C5270 1A0D54847 1A3C5270

# SCHEMATIC DIAGRAM

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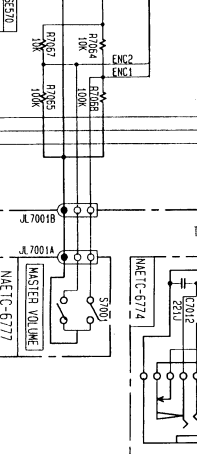
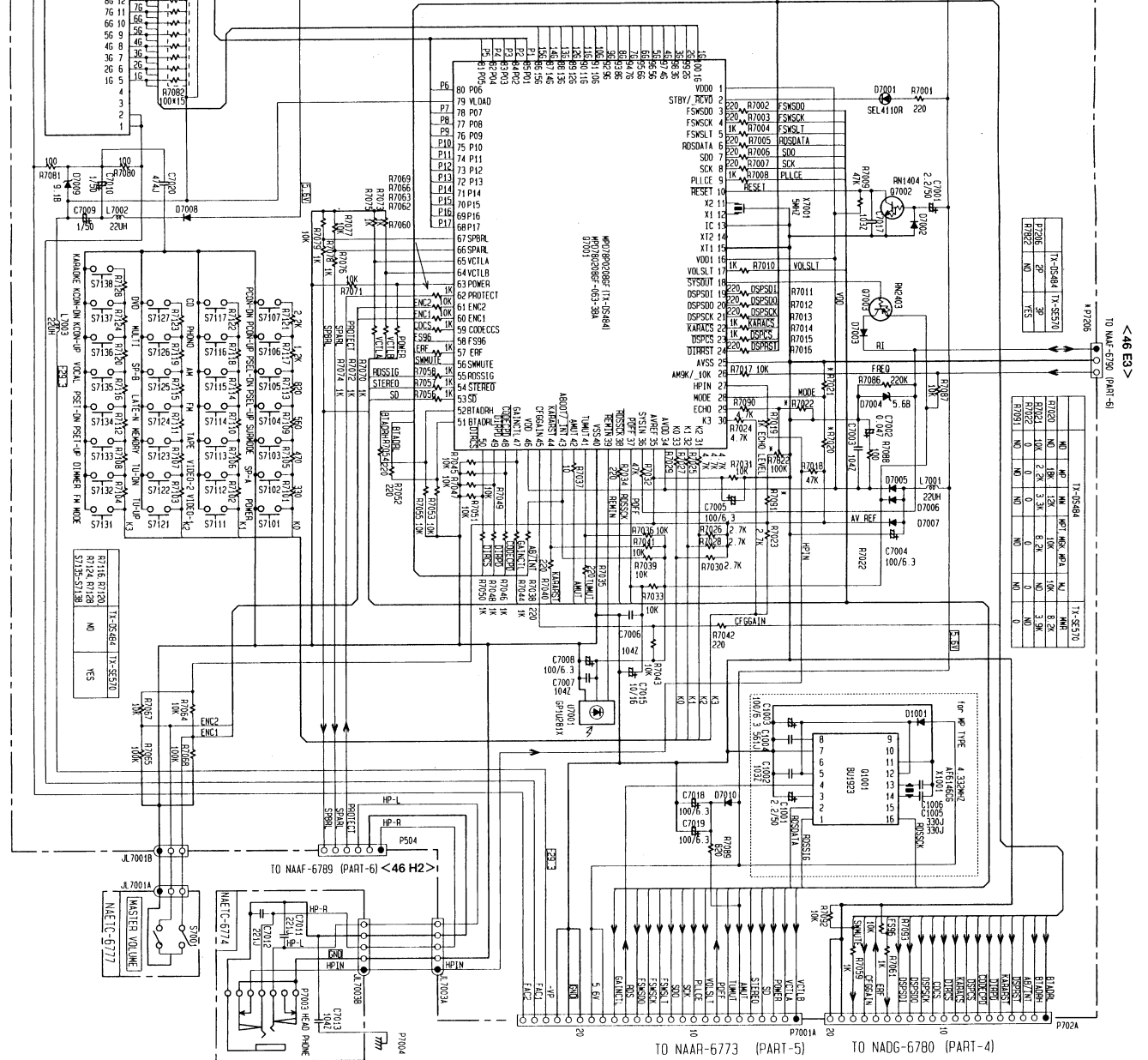
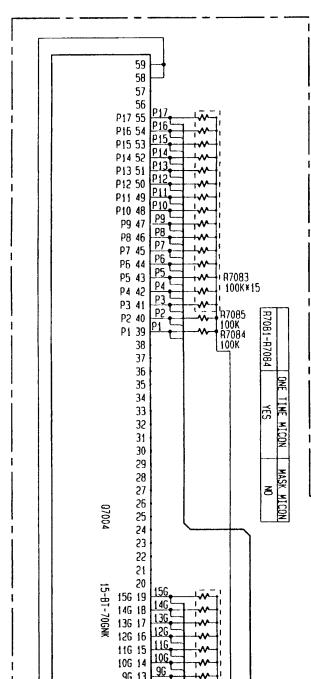
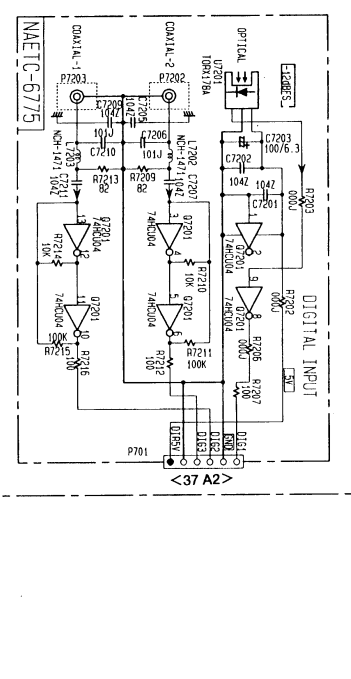
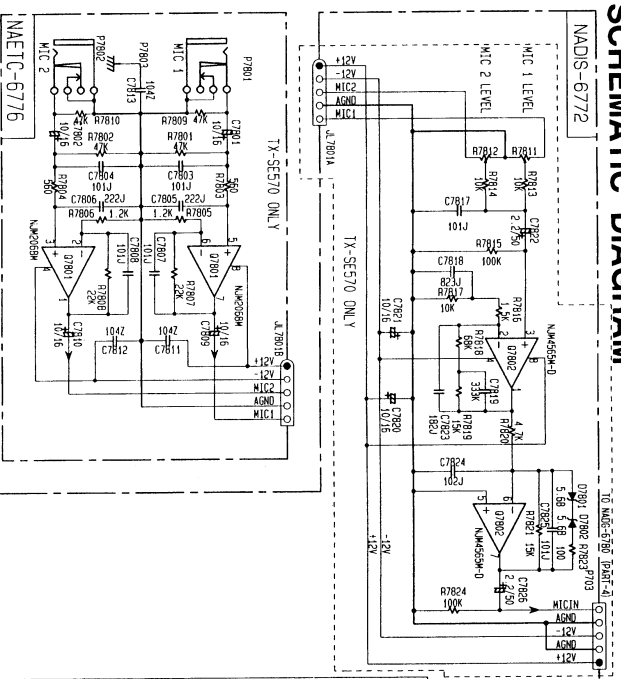




# SCHEMATIC DIAGRAM

NAIS-6772

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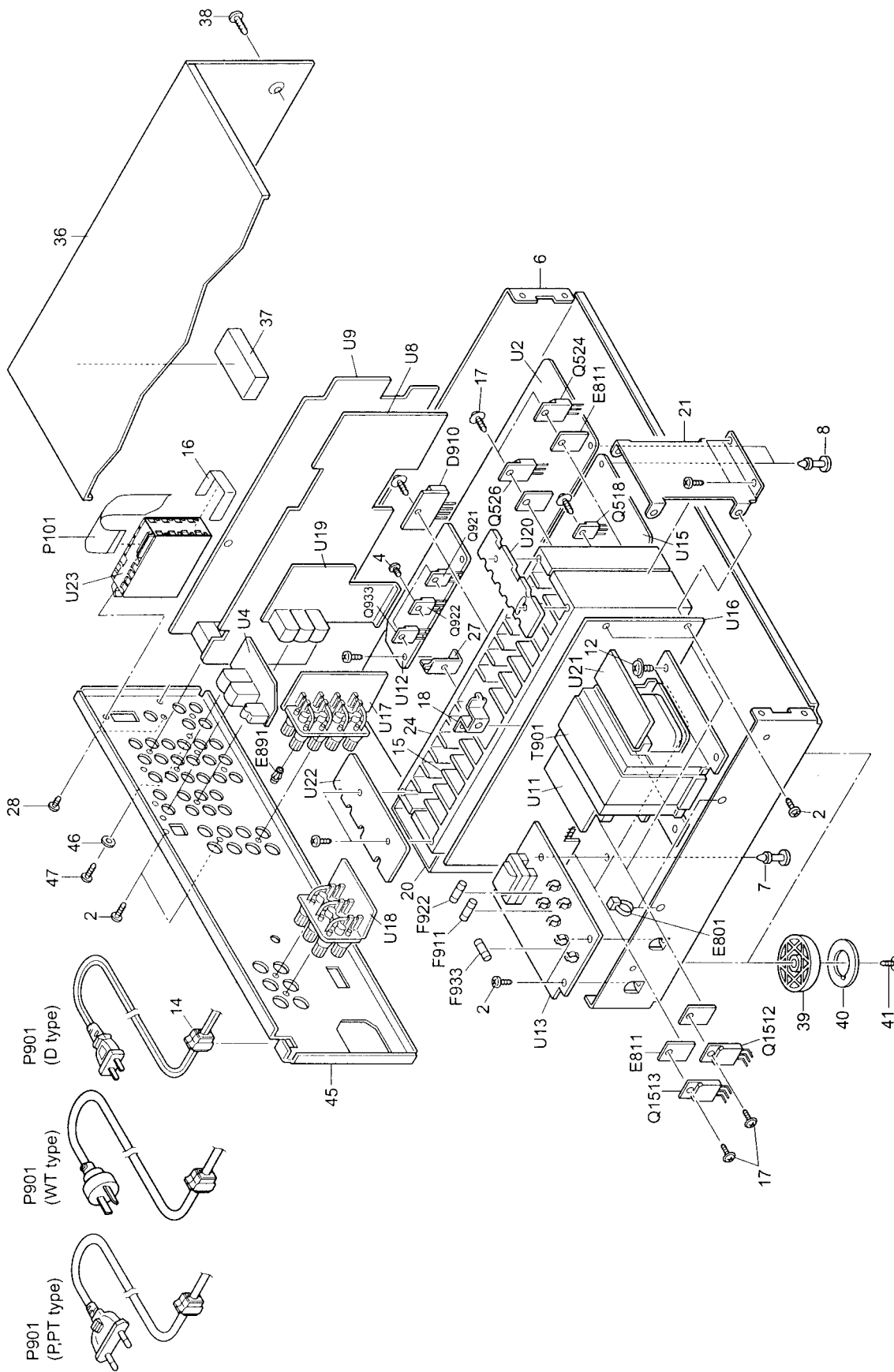


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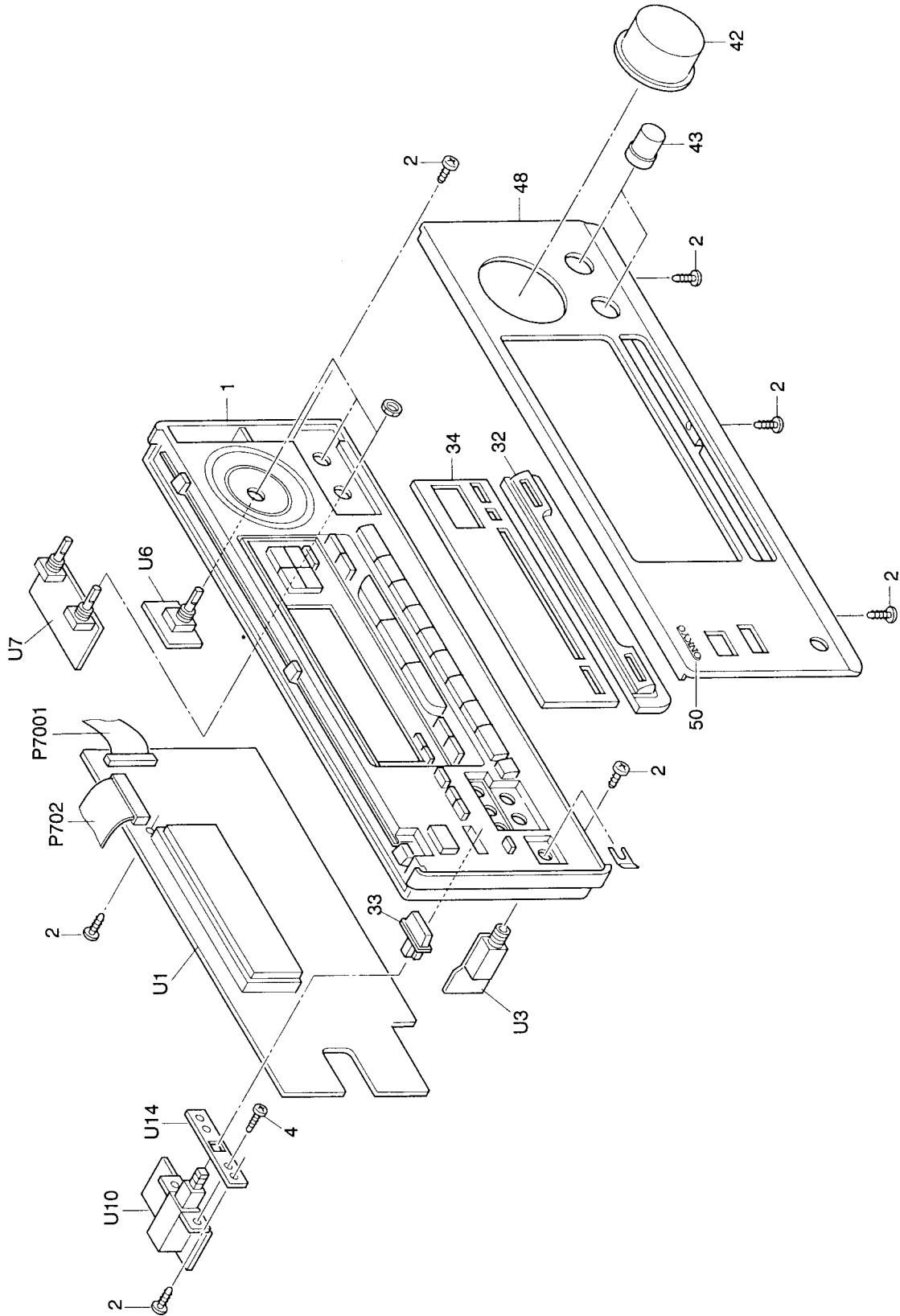
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# CHASSIS EXPLODED VIEW MODEL TX-DS484



# 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<B>	49	29110029	Double faced tape
	27111151	Front bracket<S>	50	28135244Y	Badge<B>
	27111152	Front bracket<G>		28135245Y	Badge<S, G>
2	838130088	3TTB+8B, Self tapping screw	D910	22380038 or	RS603M, Diode
4	82143010	3P+10FN(BC), Self tapping screw		22380274	Wire tie
6	27100368B	Chassis	E801	260208	AC238, Isolated sheet
7	27190266	KGLS-12RF, Holder	E811	223024	Plastic rivet<P, PT, A>
8	27190428A	KGLS-10RF, Holder	E891	880048	6.3A-UL/T-237, Fuse<D, WT, R>
12	830400689	4TTC+8C(BC), Self tapping screw	F911	252166	4A-SE-EAK or
14	27300750	Bushing, cord	F922	252077 or	4A-SE-TL250V, Fuse<P, PT, WT, R, A, K>
15	27160435	Heat sink L	F933	252243	2.5A-SE-EAK or
16	27110083	Adhesive tape		252075 or	2.5A-SE-TL250V, Fuse<P, PT, K>
17	801433	3SMS8W.SW+14B(BC), Special screw	P101	252241	NCFC7-152012, Flexible flat cable
18	27141681	Retainer PWB	P702	2047202022	NCFC7-202022, Flexible flat cable
20	27141735	Retainer, Rear	P7001	2047252012	NCFC7-252012, Flexible flat cable
21	27141734	Retainer, Front	P901	253193HIT or	AS-CEE or
24	27160436A	Heat sink S		253195MAR	AS-CEE, Power supply cord<P, PT>
27	27141729	Retainer S		253197HIT	AS-SAA, Power supply cord<A>
28	838430068	3TTB+6B(BC), Self tapping screw		253213WSE	AS-KS, Power supply cord<K>
32	27215334	Decorative frame<B>		253233KAW	AS-CEE-2, Power supply cord<WT>
	27215335	Decorative frame<S>		253279HIT or	AS-UC-2#18 or
	27215336	Decorative frame<G>		253280VOL	AS-UC-2#18, Power supply cord<D>
33	27325497A	Knob, power<B>		253285HIT or	AS-CCEE or
	2832547A	Knob, power<S>		253267KAW or	AS-CCEE or
	28325499A	Knob, power<G>		253286VOL	AS-CCEE, Power supply cord<R>
34	28191871	Clear plate<B>	P991,P992	25051266	NSCT-2P1056, Socket<K>
	28191872	Clear plate<S, G>	Q1512	2202253 or	* 2SC4467-O or
36	28184663Y	Top cover<B>		2202254 or	* 2SC4467-Y or
	28184666Y	Top cover<S>		2202256 or	* 2SC4467-P or
	28184682Y	Top cover<G>		2203042 or	* 2SC5197-R or
37	28141408	Cushion		2203043 or	* 2SC5197-O or
38	838430088	3TTB+8B(BC), Self tapping screw<B>		2203502 or	NS KTD718-R or
	838930088	3TTB+8B(UN), Self tapping screw<S, G>		2203503	NS KTD718-O, Transistor
39	27175319A	Leg	Q1513	2202243 or	* 2SA1694-O or
40	28141332	Cushion for Leg		2202244 or	* 2SA1694-Y or
41	831430088	3TTW+8B(BC), Self tapping screw		2202246 or	* 2SA1694-P or
42	28325641	Knob, Volume<B>		2203032 or	* 2SA1940-R or
	28325642	Knob, Volume<S>		2203033 or	* 2SA1940-O or
	28325643	Knob, Volume<G>		2203492 or	NS KTB688-R or
43	28325405	Knob, Tone<B>		2203493	NS KTB688-O, Transistor
	28325474	Knob, Tone<S>		Q517,Q518	* 2SC3421-O or
	28325407	Knob, Tone<G>		2212654	* 2SC3421-Y, Transistor
45	27122671	Rear Panel<P>	Q523,Q524	2202254 or	* 2SC4467-Y or
	27122670A	Rear Panel<D>		2202256 or	* 2SC4467-P or
	27122674	Rear Panel<R>		2202253 or	* 2SC4467-O or
	27122672	Rear Panel<PT>		2203042 or	* 2SC5197-R or
	27122673	Rear Panel<WT>		2203043 or	* 2SC5197-O or
	27122675	Rear Panel<A>		2203502 or	NS KTD718-R or
	27122676	Rear Panel<K>		2203503	NS KTD718-O, Transistor
46	87643010	W3*10F(BC), Flat washer	Q525,Q526	2202246 or	* 2SA1694-P or
47	838930088	3TTB+8B(UN), Self tapping screw		2202243 or	* 2SA1694-O or
48	27212161	Front Panel<P(B)>		2202244 or	* 2SA1694-Y or
	27212163	Front Panel<P(S)>		2203032 or	* 2SA1940-R or
	27212160	Front Panel<D, WT(B), R(B), PT(B), A(B)>		2203033 or	* 2SA1940-O or
	27212162	Front Panel<WT(G), R(G), PT(G), K(G)>		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 1A865586-1E 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<D> NAAF-6793-1B, Multi channel input PC Board ass'y<P, PT, A, K> NAAF-6793-1C, Multi channel input PC Board ass'y<WT, R> NAETC-6794-1A, Holder PC Board ass'y<P, PT, A, K> NAETC-6794-1C, Holder PC Board ass'y<WT, R> NAETC-6795-1A, Secondary PC Board ass'y<D> NAETC-6795-1C, Secondary PC Board ass'y<P, PT, A, K> 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 1A86580-1A 1A865582-1A 1A865582-1B 1A865582-1C 1A865582-1D 1A867582-1E 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
U9	1A865580-1A 1A865582-1A 1A865582-1B 1A865582-1C 1A865582-1D 1A867582-1E 1A869582-1G		<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 <B> : Black Model only <S> : Silver Model only <G> : Golden Model only								

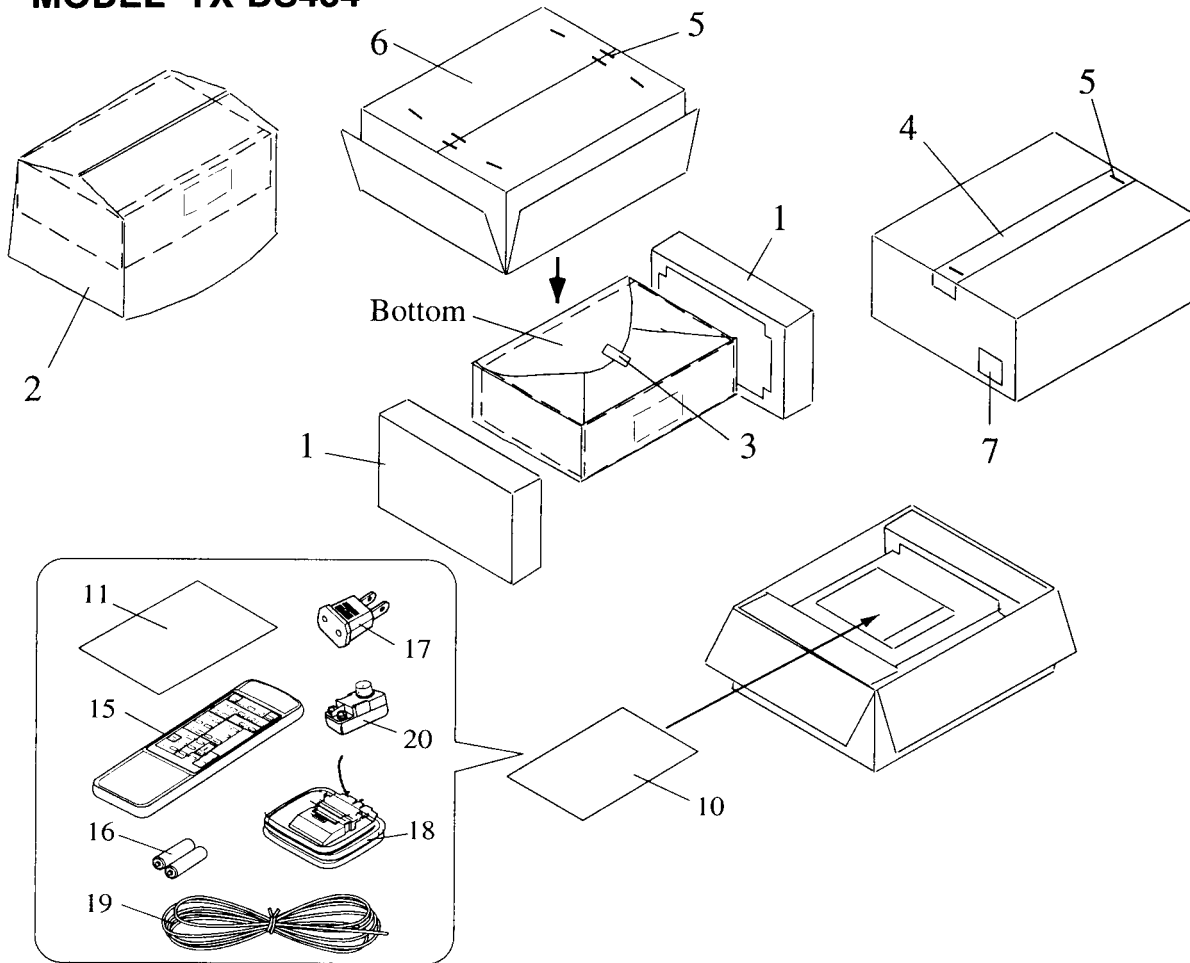
NOTE : THE COMPONENTS IDENTIFIED BY THE MARK  $\Delta$  ARE CRITICAL FOR RISK OF FIRE AND ELECTRIC SHOCK. REPLACE ONLY WITH PART NUMBER SPECIFIED.

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

# 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)>	<D> : 120V Model only
	29053542	Carton box<P(S)>	<P> : European Model only
	29053538	Carton box<D>	<WT> : Taiwanese Model only
	29053540	Carton box<R(B), PT(B), WT(B), A(B)>	<PT> : Asian Model only
	29053541	Carton box<R(G), PT(G), WT(G), K(G)>	<R> : Chinese Model only
7	29362546	Label EAN<B> <Except 120V model>	<A> : Australian Model only
	29362547	Label EAN<S> <Except 120V model>	<K> : Korean Model only
	29362549	Label UPC <D>	
	29362548	Label EAN<G>	<B> : Black Model only
10	29100097-1A	350*250, Styrene bag	<S> : Silver Model only
11	29342828	Instruction manual E	<G> : Golden Model only
	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>	