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# ONKYO® SERVICE MANUAL

## STEREO CASSETTE TAPE DECK


### MODEL TA-RW544



Black model

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

#### SAFETY-RELATED COMPONENT WARNING!!

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

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

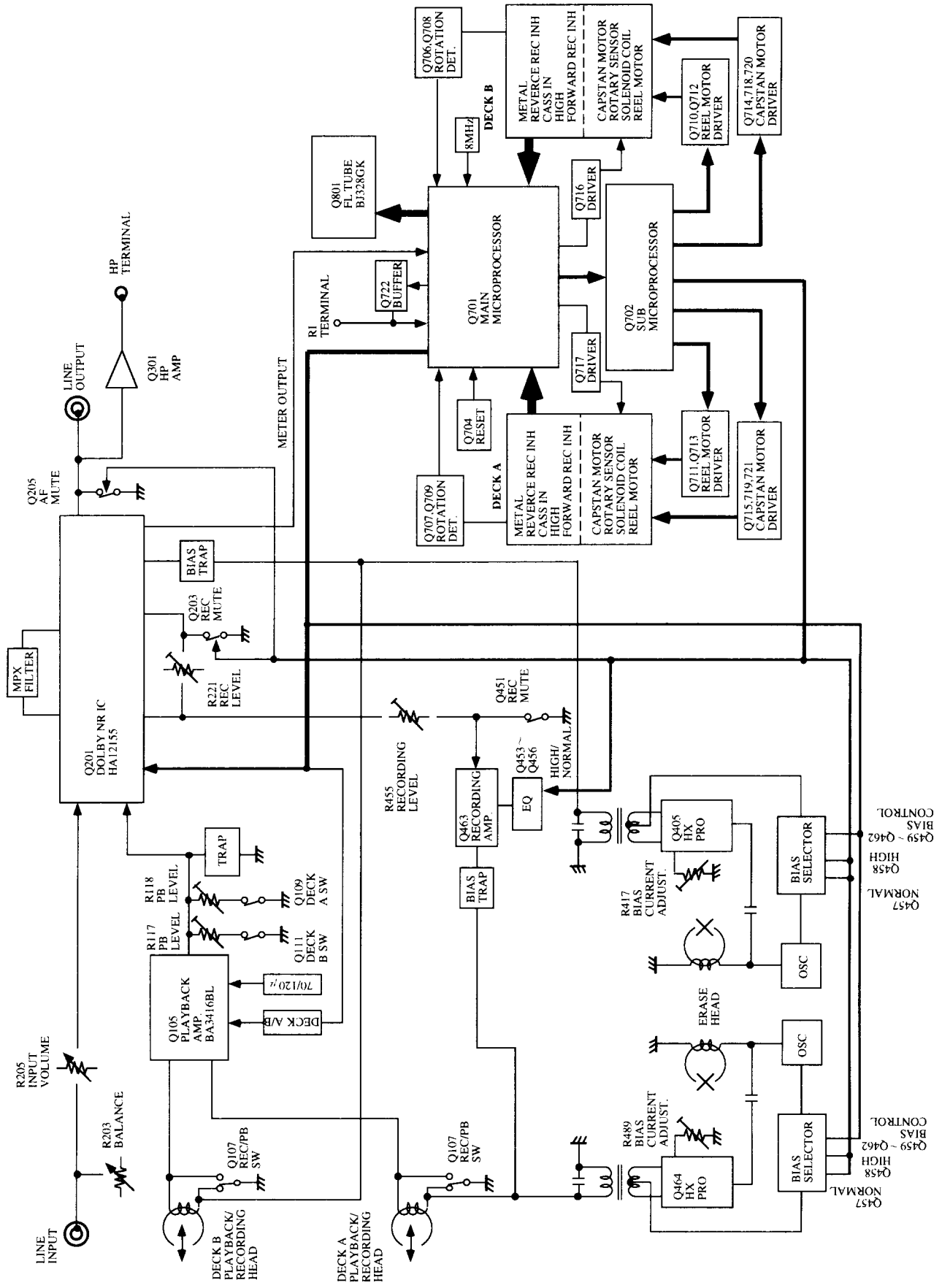


## SPECIFICATIONS

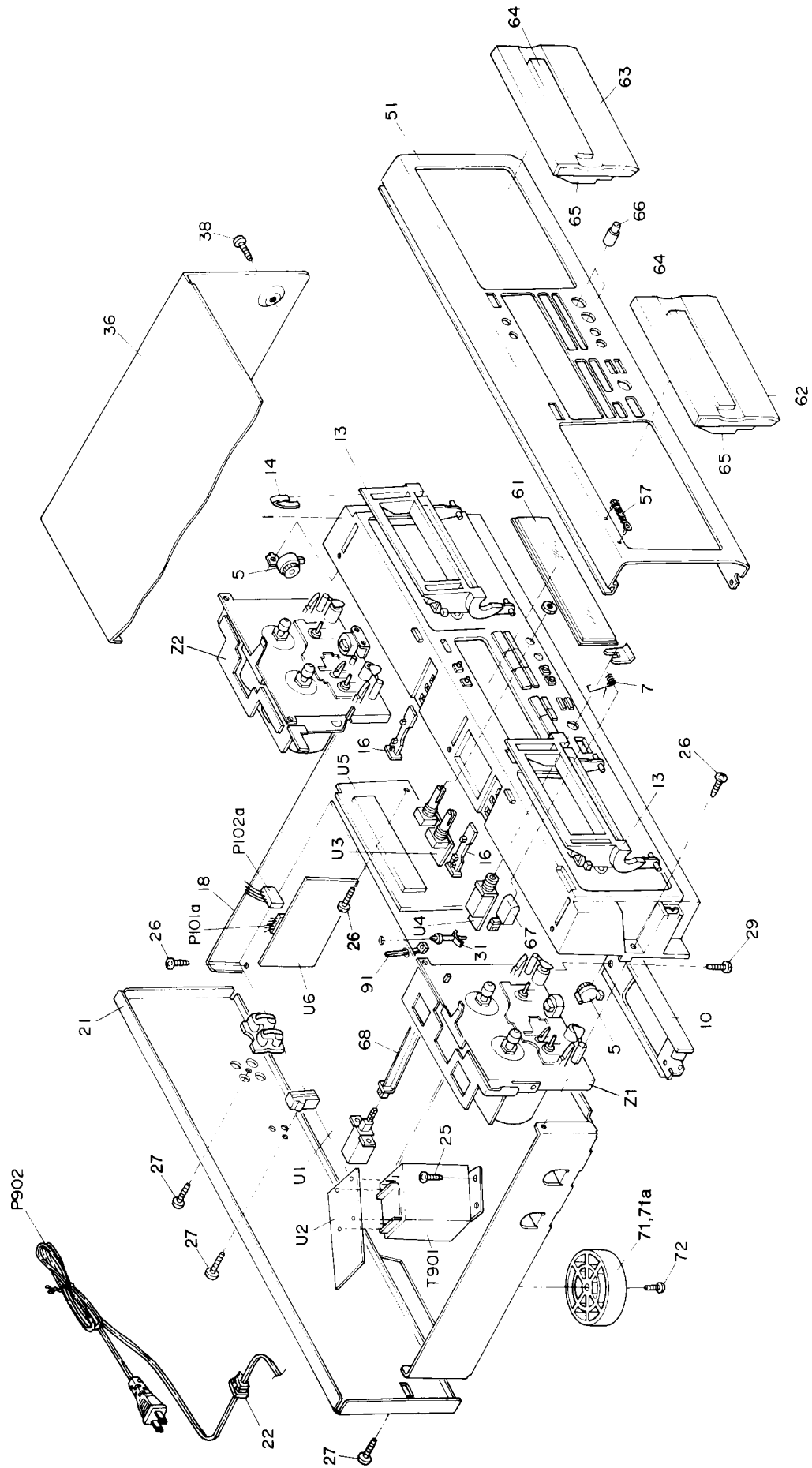
Track Format:	4-track, 2-channels
Erasure System:	AC erase
Tape Speed:	4.8 cm/sec. (1-7/8 i.p.s.) 9.6 cm/sec. (3-3/4 i.p.s.) (high-speed dubbing)
Wow and Flutter:	0.07 % (WRMS)
Frequency Response:	20 — 15,000 Hz (Normal) 30 — 14,000 Hz ± 3 dB 20 — 16,000 Hz (High) 30 — 15,000 Hz ± 3 dB 20 — 17,000 Hz (Metal) 30 — 16,000 Hz ± 3 dB
S/N Ratio:	Dolby NR off: 58 dB (metal position tape) A noise reduction of 10 dB above 5 kHz and 5 dB at 1 kHz is possible with Dolby B NR. A noise reduction of 20 dB at 5 kHz is possible with Dolby C NR.
Input Jacks:	Line IN: 2 Input sensitivity: 80 mV Input impedance: 50 kohms
Outputs:	Line OUT: 2 Standard output level: 500 mV (0 dB) Optimum load impedance: over 50 kohms
Headphone jack:	1 Optimum load impedance: 8 to 200 ohms
Motors:	DC servo motor × 2, DC motor × 2
Heads:	REC/PB: 1 PB: 1 ERASE: 1
Power Supply:	European and Australian models: AC 230V, 50 Hz U.S.A. and Canadian models: AC 120V, 60 Hz Worldwide model: AC 120V and AC 220V, Switchable 50/60 Hz
Power Consumption:	31 watts
Dimensions:	435(W) × 121(H) × 305(D) mm (17-1/8" × 4-3/4" × 12")
Weight:	5.9 kg. (13.0 lbs.)

Specifications and external appearance are subject to change without notice because of product improvements.

**BLOCK DIAGRAM**



CHASSIS-EXPLODED VIEW



## PARTS LIST

REF.NO.	PART NO.	DESCRIPTION	REF.NO.	PART NO.	DESCRIPTION
1	27110953Y	Front bracket	P101a	2009990349ULY	NSAS-14P0486,Socket
5	28400282	Damper	P102a	2009990315ULY	NSAS-14P0449,Socket
7	27180477A	Spring A	P902	253192HIT	AS-UC-6#18,Power supply cord <D>
10	27130741AY	Bracket F		253193HIT	AS-CEE,Power supply cord <P/W/T>
13	28400463B	Cassette frame	T901	2301049Y	NPT-1223D,Power transformer <D>
14	27180435	Spring		2301050Y	NPT-1223P,Power transformer <P>
16	28324943Y	Knob,eject		2301051Y	NPT-1223DG,Power transformer <W>
18	27100322Y	Chassis	U1	1N261586-4AY	NAAR-5086-4A,Main circuit pc board ass'y <except W>
21	27122270AY	Rear panel <D>		1N261586-4BY	NAAR-5086-4B,Main circuit pc board ass'y <W>
	27122271AY	Rear panel <P>	U2	1N261587-4AY	NAPS-5087-4A,Power supply pc board ass'y <except W>
	27122272AY	Rear panel <W>		1N261587-4BY	NAPS-5087-4B,Power supply pc board ass'y <W>
	27122289AY	Rear panel <T>	U3	1N261588-4AY	NAETC-5088-4A,Input level volume pc board ass'y <except W>
22	27300750	Cord bushing		1N261588-4BY	NAETC-5088-4B,Input level volume pc board ass'y <W>
25	830440089	4TTC+8C(BC),Self-tapping screw	U4	1N261589-4AY	NAETC-5089-4A,Headphone terminal pc board ass'y <except W>
26	838130088	3TTB+8B,Self-tapping screw		1N261589-4BY	NAETC-5089-4B,Headphone terminal pc board ass'y <W>
27	833430088	3TTB+8B(BC),Self-tapping screw	U5	1N261593-4Y	NADIS-5093-4,Display circuit pc board ass'y
29	838130088	3TTB+8B,Self-tapping screw	U6	1N261594-4Y	NAAF-5094-4,Recording amplifier pc board ass'y
31	27190480-1Y	PCB-8L,Holder	U7	1N261590-4BY	NASW-5090-4B,Voltage selector switch pc board ass'y <W>
36	28184664Y	Top cover	W701	2047291512Y	NCFC-291512,Flat cable
38	838430088	3TTB+8B(BC),Self-tapping screw	Z1,Z2	244197Y	NDM-188,Deck mechanism ass'y
51	27211866Y	Front panel			
57	28135244Y	Badge			
61	28191754Y	Clear plate			
62	27301907Y	Cassette lid A			
63	27301908Y	Cassette lid B			
64	28191695Y	Clear plate			
65	27301850Y	Cassette lid,base			
66	28323671A	Knob, Volume			
67	28325453Y	Knob, Power			
68	27273135BY	Joint			
71	27175316AY	Leg			
71a	28141332Y	Cushion,for leg			
72	838130088	3TTB+8B,Self-tapping screw			
73	835430068	3TTF+6B(BC),Self-tapping screw			
91	260208	Wire tie			

NOTE: <D>: L20V model only  
 <P>: 230V model only  
 <W>: Worldwide model only  
 <T>: Taiwanese model only

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

# ADJUSTMENT PROCEDURES

## PRECAUTIONS

1. Before adjustment, clean the following parts with an alcohol moistend swab.

- \* record/playback head
- \* erase head
- \* pinch roller
- \* capstan

2. Do not use magnetized screwdriver for adjustments.

3. Demagnetize record/playback head with a liead demagnetizer.

## TEST EQUIPMENT/TOOLS REQUIRED:

- Audio oscillator
- Digital frequency counter
- Oscilloscope
- Attenuator
- AC voltmeter
- Non-magnetic screwdriver
- Test tapes
  - TCC-153 :10kHz, -15dB
  - MTT-111 :3kHz, -10dB
  - MTT-150 :Dolby level calibration  
400Hz, tone 200nWb/m

### Tape speed adjustment

Connect the digital frequency counter to the line output terminal.

Load the test tape MTT-111 into the cassette holder.

Connect the test point J285 to the ground to be unit to the adjustment mode.

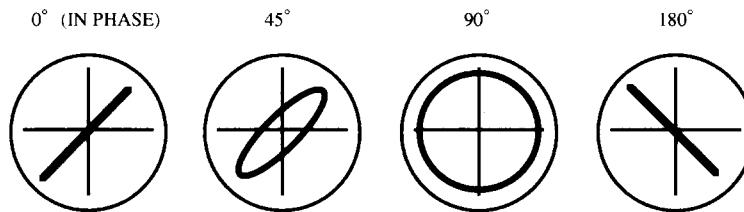
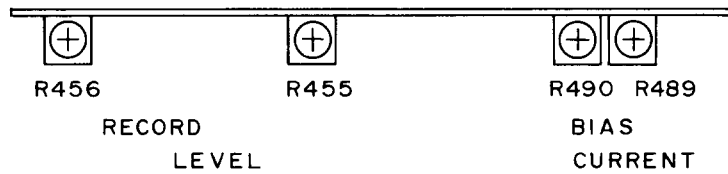
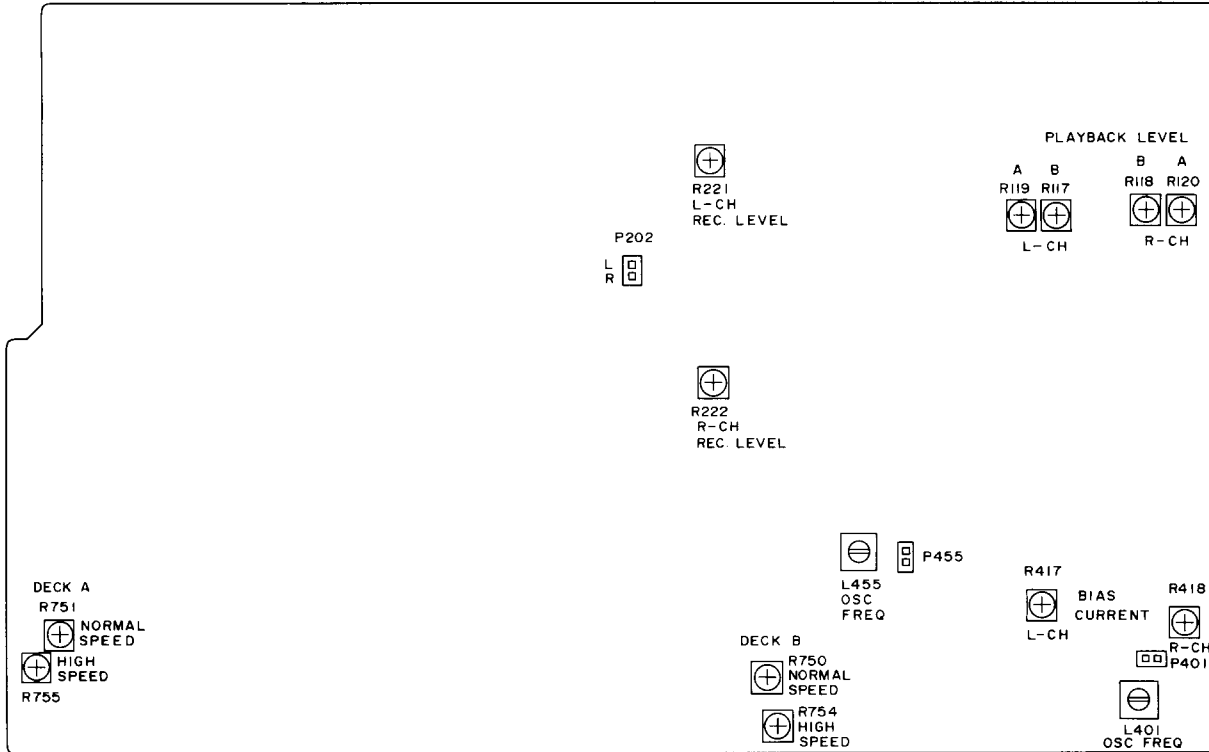
Press the forward play button twice to be unit to the high speed.

Adjust the trim resistors R755(Deck A) and R754(Deck B) so that the frequency counter reading becomes 6000Hz to 6020Hz.

Press the forward play button to be unit to the normal speed.

Adjust the trim resistors R751(Deck A) and R750(Deck B) so that the frequency counter reading becomes 3000Hz to 3010Hz.

Item	Connection of instrument	Line input	Test tape	Mode	Output indicator	Adjustment point	Adjust for	Remarks
Head azimuth	AC voltmeter and oscilloscope to output terminal		TCC-153	Playback	AC voltmeter and Oscilloscope	Head azimuth screw Foward:Left side Reverse:Right side	Maximum and same separation at left and right channels.	Figure 1
Playback level	AC voltmeter to test point P202		MTT-150	Playback	AC voltmeter	Deck A R119(Left channel) R120(Right channel) Deck B R117(Left channel) R118(Right channel)	300mV	
Oscillator block	Frequency counter to test point P455		Metal tape XS-C90	Stop	Frequency counter	L455	107 ± 2kHz	Test mode When you press the stop key, deck becomes recording mode of metal position. Test mode
	Frequency counter to test point P401			Stop	Frequency counter	L401	107 ± 2kHz	
Bias current	Figure 2	1kHz, -23dB and 12kHz, -23dB	UD-1 C-90	Recording/playback	AC voltmeter	R489(Left channel) R490(Right channel)	Difference of 1kHz and 12kHz become less than 1dB.	When you press the AUTO SPACE key,recording of deck starts. Next when you press the AUTO SPACE key, rewind to recording start point and starts to playback.
				Recording/playback	AC voltmeter	R417(Left channel) R418(Right channel)		
Recording level	Figure 2	1kHz 350mV	UD-1 C-90	Recording	AC voltmeter	Attenuator	350mV	When you press the AUTO SPACE key,recording of deck starts. Next when you press the AUTO SPACE key, rewind to recording start point and starts to playback.
				Recording/playback	AC voltmeter	R455(Left channel) R456(Right channel)	Signals of recording and playback become same level	
				Recording/playback	AC voltmeter	R221(Left channel) R222(Right channel)		



Confirming phase relationship  
Fig.1

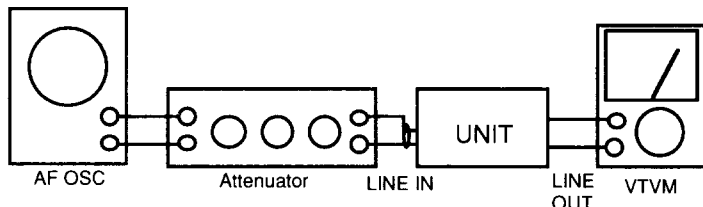


Fig. 2

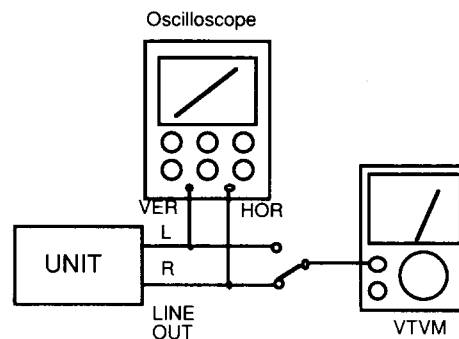
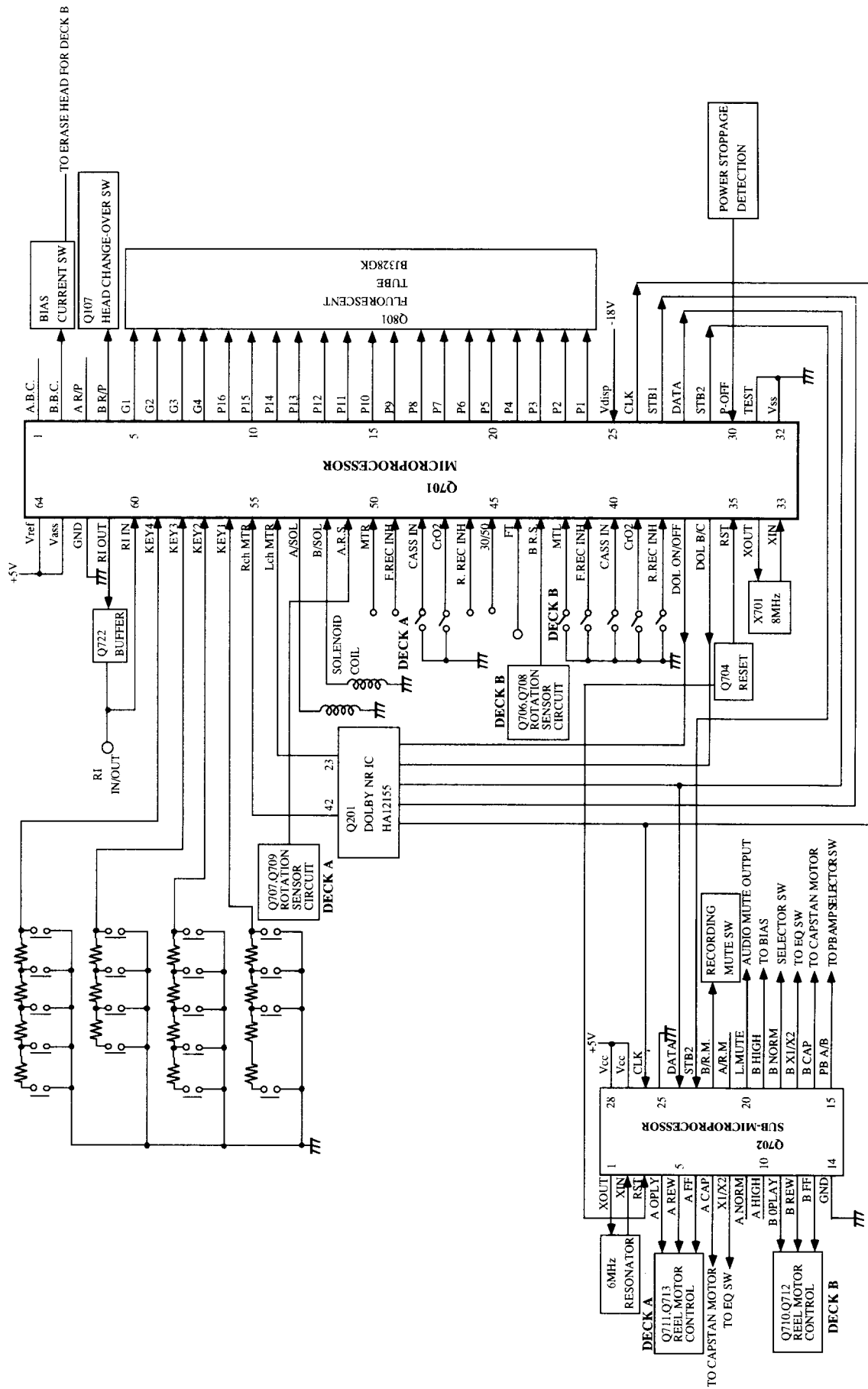


Fig.3

# MICROPROCESSOR-CONNECTION DIAGRAM





# MICROPROCESSOR-TERMINAL DESCRIPTIONS

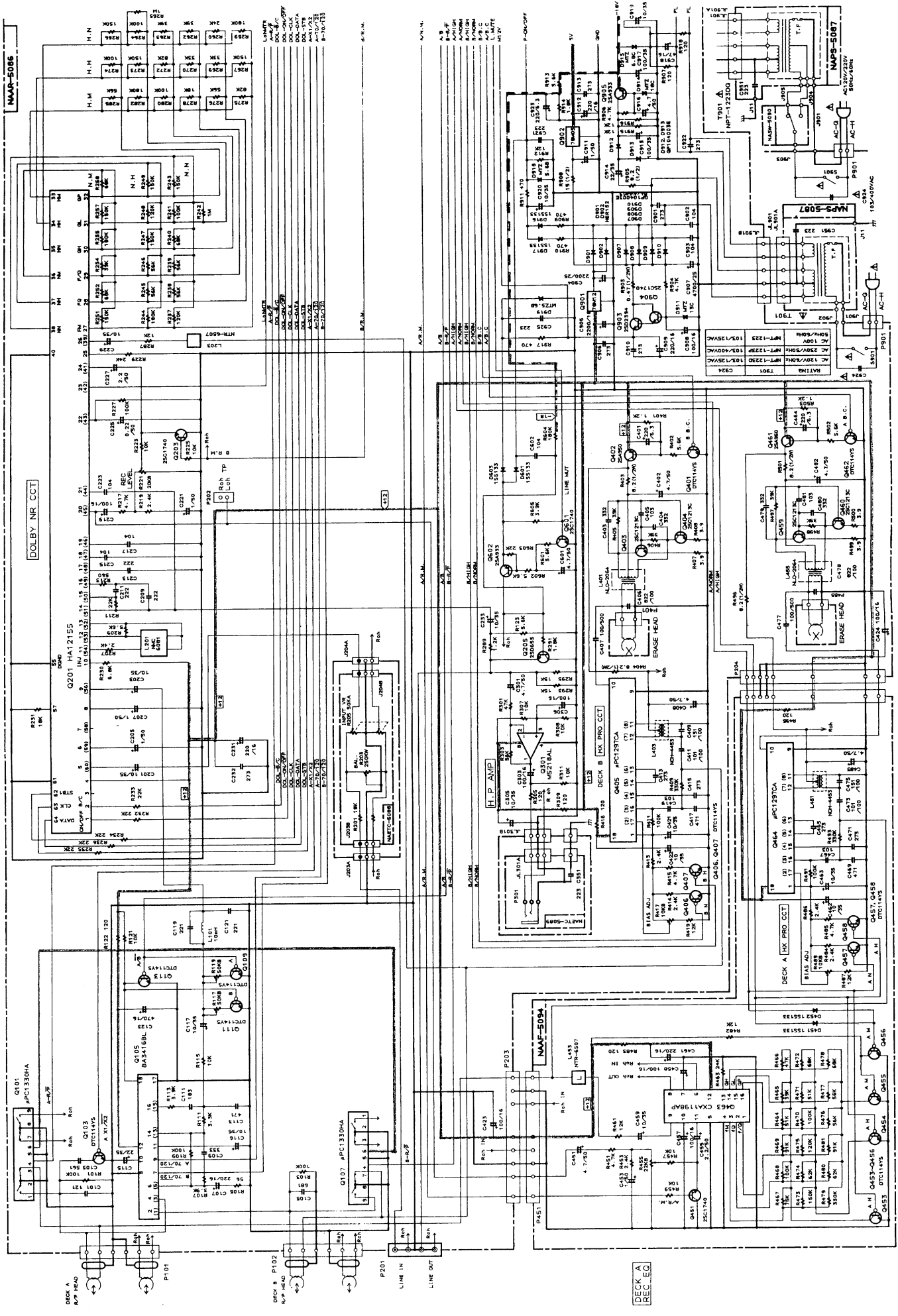
## MAIN MICROPROCESSOR

Pin No.	Terminal	Description
1	A B.C.	Bias current change-over control output pin for Deck A
2	B B.C.	Bias current change-over control output pin for Deck B
3	A R/P	Recording/playback head change-over output pin for Deck A
4	B R/P	Recording/playback head change-over output pin for Deck B
5	G1	Grid output pin
6	G2	Grid output pin
7	G3	Grid output pin
8	G4	Grid output pin
9	P16	Segment output pin
10	P15	Segment output pin
11	P14	Segment output pin
12	P13	Segment output pin
13	P12	Segment output pin
14	P11	Segment output pin
15	P10	Segment output pin
16	P9	Segment output pin
17	P8	Segment output pin
18	P7	Segment output pin
19	P6	Segment output pin
20	P5	Segment output pin
21	P4	Segment output pin
22	P3	Segment output pin
23	P2	Segment output pin
24	P1	Segment output pin
25	Vdisp	
26	CLK	Clock output pin
27	STB1	Strobe output pin
28	DATA	Data output pin
29	STB2	Strobe output pin.
30	P-OFF	Detection input pin for stoppage of electric current
31	TEST	Test pin
32	V <sub>ss</sub>	Power supply terminal

Pin No.	Terminal	Description
33	XIN	Ceramic resonator connection pin
34	XOUT	Ceramic resonator connection pin
35	RST	Reset input
36	DOL B/C	Dolby B/C change-over output pin
37	DOL ON/OFF	Dolby change-over output pin
38	R-REC INH	Recording inhibiting detection input pin for reverse side of Deck B.
39	CrO2	High position detection input pin for reverse side of Deck B.
40	CASS IN	Cassette tape detection input pin for reverse side of Deck B.
41	F-REC INH	Recording inhibiting detection input pin for forward side of Deck B.
42	MTL	Metal position detection input pin for reverse side of Deck B.
43	B R.S.	Rotation detection input pin for reel stand of Deck B.
44	FT	Adjustment mode input pin
45	30/50	Initializing input
46	R-REC INH	Recording inhibiting detection input pin for reverse side of Deck A.
47	CrO2	High position detection input pin for reverse side of Deck A.
48	CASS IN	Cassette tape detection input pin for reverse side of Deck A.
49	F-REC INH	Recording inhibiting detection input pin for forward side of Deck A.
50	MTL	Metal position detection input pin for reverse side of Deck A.
51	A.R.S.	Rotation detection input pin for reel stand of Deck A.
52	B/SOL	Solenoid coil drive output pin of Deck B
53	A/SOL	Solenoid coil drive output pin of Deck A
54	Lch mot	Input pin for level meter of left channel
55	Rch mot	Input pin for level meter of right channel
56	KEY1	Operation key connection pin
57	KEY2	Operation key connection pin
58	KEY3	Operation key connection pin
59	KEY4	Operation key connection pin
60	RI IN	Bus signal input pin
61	RI OUT	Bus signal output pin
62	GND	Ground terminal
63	V <sub>ass</sub>	Power supply pin
64	V <sub>ref</sub>	Power supply pin

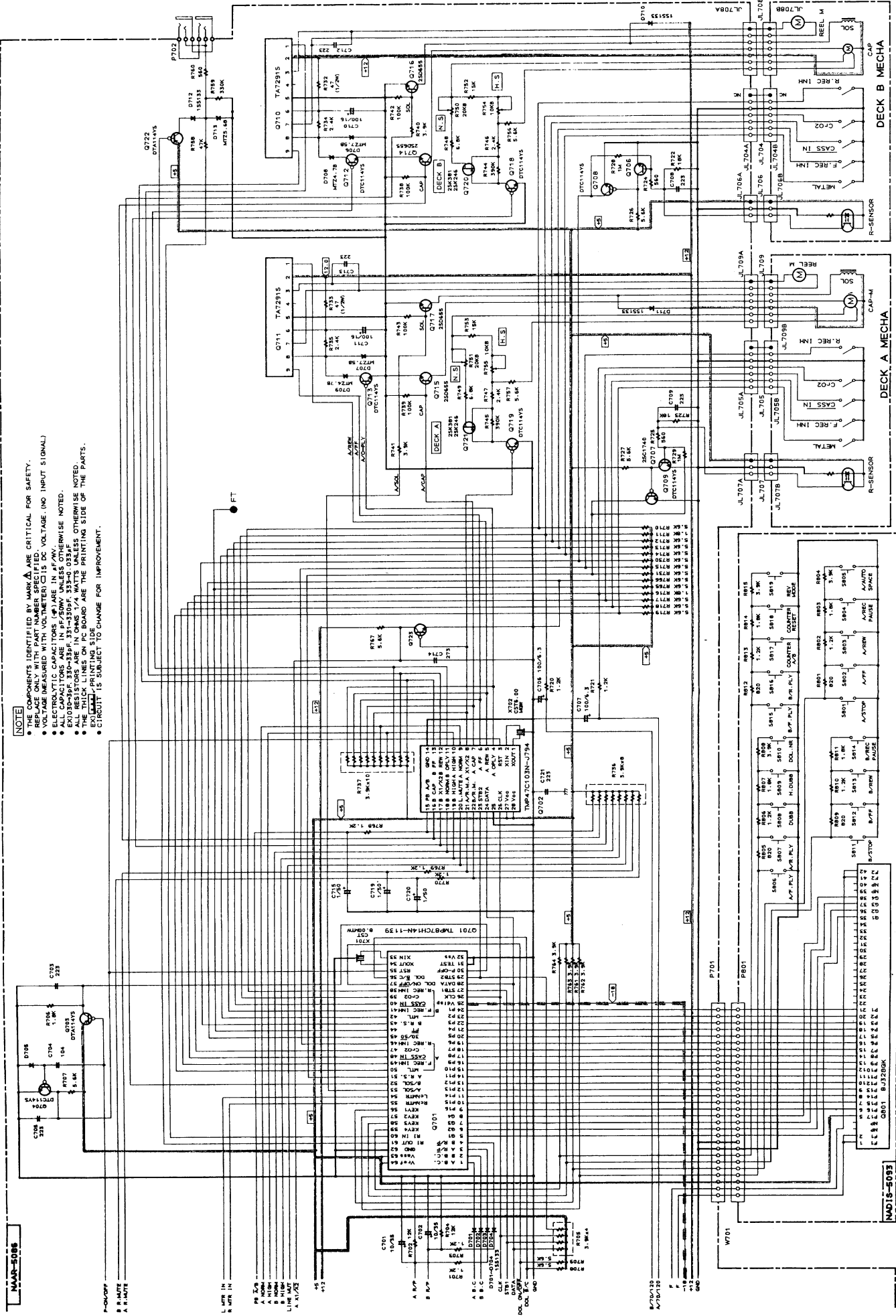
SCHEMATIC DIAGRAM

A B C D E F G



A B C D E F G

# SCHEMATIC DIAGRAM




# PRINTED CIRCUIT BOARD-PARTS LIST

## MAIN CIRCUIT PC BOARD (NAAR-5086-4)

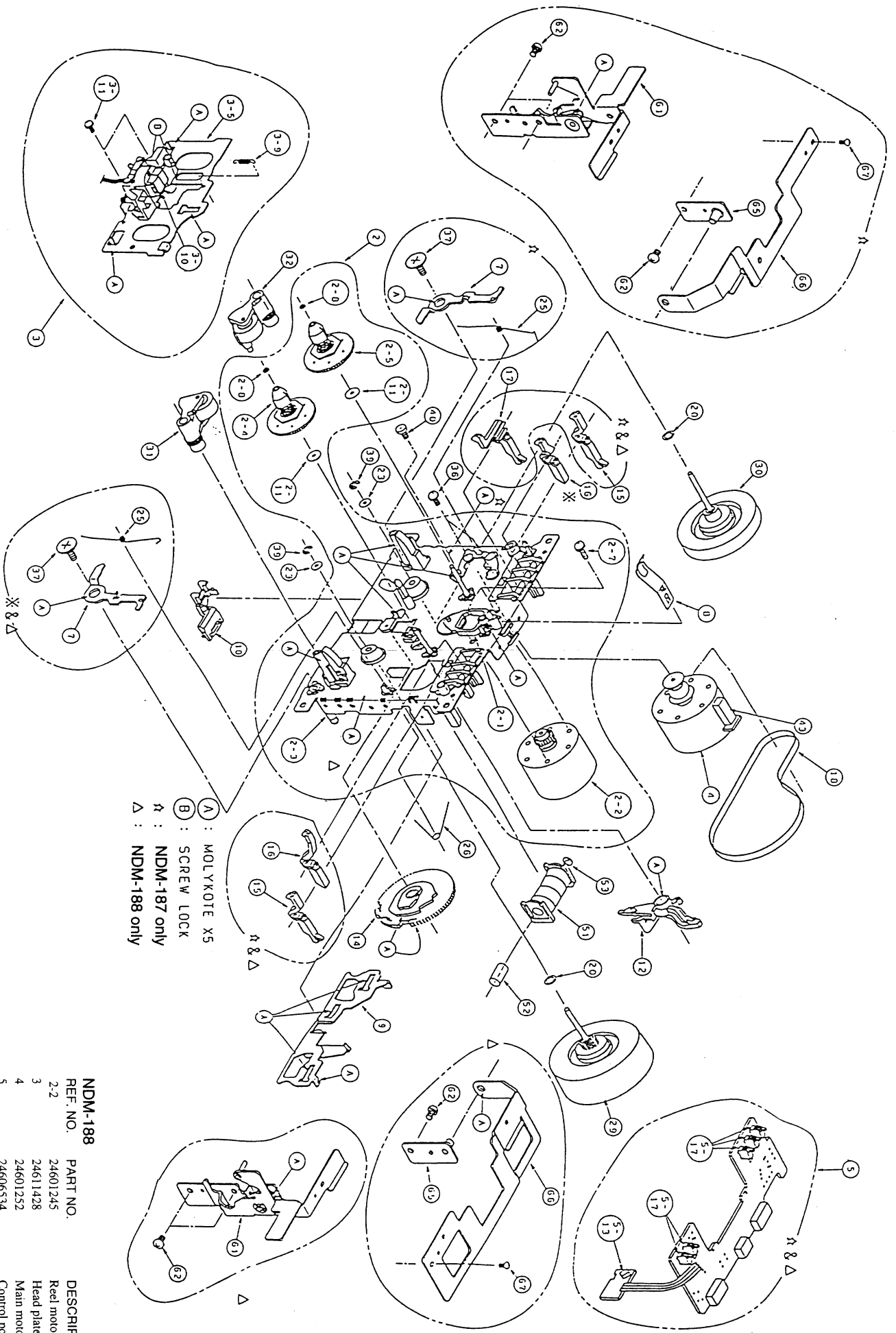
CIRCUIT NO.	PART NO.	DESCRIPTION	CIRCUIT NO.	PART NO.	DESCRIPTION
					Diodes
			D914	224451803	MTZ18C, Zener
			D915	224470683	MTZJ6.8C, Zener
Q101,Q107	22240147	μ PC1330HA	D916,D917	223163	1SS133
Q105	22240767	BA3416BL	D918,D919	224450562	MTZ5.6B, Zener
Q201	22240544	HA12155NT			Coils
Q301	22240369	M5218AP	L101,L102	231089	NCH-2137, CHOKE
Q405	222959	μ PC1297CA	L201,L202	233436	NMC-6081, MPX
Q701	22240822	TMP87CH14N-1139	L203,L204	231221	NTR-6507, TRAP
Q702	22240823	TMP47C103N-J794	L401	231223Y	NLO-2064, OSC
Q710,Q711	22240239	TA7291S	L403,L404	231218	NCH-4453, CHOKE
Q901	222780125MIT	78M12	L455	231223Y	NLO-2064, OSC
Q902	222780055NEC	78M05HF			Resonators
		Transistors	X701	3010190	CST8.00MTW, Ceramic
Q103,Q104	221281	DTC114YS	X702	3010149	CST6.00MGW, Ceramic
Q109-Q113	221281	DTC114YS			Capacitors
Q203,Q204	2213284 or	2SC1740S-R or	C103,C104	374725614	560pF±5%,50V,Plastic
	2213285	2SC1740S-S	C105,C106	374726814	680pF±5%,50V,Plastic
Q205,Q206	2211705 or	2SD655-E or	C107,C108	354742219	220μ F,16V,Elect.
	2211706	2SD655-F	C109,C110	374723334	0.033μ F±5%,50V,Plastic
Q401	221281	DTC114YS	C111,C112	374721834	0.018μ F±5%,50V,Plastic
Q402,Q461	2211504	2SA950-Y	C115	354762209	22μ F,35V,Elect.
Q403,Q404	2201883	2SC1213-C	C116-C118	354761009	10μ F,35V,Elect.
Q406,Q407	221281	DTC114YS	C123	354744719	470μ F,16V,Elect.
Q459,Q460	2201883	2SC1213-C	C201-C204	354761009	10μ F,35V,Elect.
Q462	221281	DTC114YS	C205-C207	354780109	1μ F,50V,Elect.
Q601	2213284 or	2SC1740S-R or	C209-C214	374722224	2200pF±5%,50V,Plastic
Q706,Q707	2213285	2SC1740S-S	C215-C218	374721044	0.1μ F±5%,50V,Plastic
Q602,Q905	2213354 or	2SA933S-R or	C219,C220	354741019	100μ F,16V,Elect.
	2213355	2SA933S-S	C221,C222	354780109	1É F,50V,Elect.
Q703,Q722	2213090	DTA114YS	C223,C224	374721044	0.1μ F±5%,50V,Plastic
Q704	221281	DTC114YS	C225,C226	354782299	0.22μ F,50V,Elect.
Q708,Q709	221281	DTC114YS	C227,C228	354780229	2.2μ F,50V,Elect.
Q712,Q713	221281	DTC114YS	C229,C230	354761009	10μ F,35V,Elect.
Q714-Q717	2211705 or	2SD655-E or	C231	354742219	220μ F,16V,Elect.
	2211706	2SD655-F	C232	374722734	0.027μ F±5%,50V,Plastic
Q718,Q719	221281	DTC114YS	C233,C234	354761009	10μ F,35V,Elect.
Q720,Q721	2211945 or	2SK246-GR or	C301,C302	354780479	4.7μ F,50V,Elect.
	2212304	2SK381-D	C303,C304	354741019	100μ F,16V,Elect.
Q723	221281	DTC114YS	C305	354761009	10μ F,35V,Elect.
Q903	2202705 or	2SD2394-E	C306	354741019	100μ F,16V,Elect.
	2202706	2SD2394-F	C401	354722219	220μ F,6.3V,Elect.
Q904	2213285 or	2SC1740S-S or	C402	354780479	4.7μ F,50V,Elect.
	2213284	2SC1740S-R	C403,C404	374723324	3300pF±5%,50V,Plastic
		Diodes	C405	374721034	0.01É F±5%,50V,Plastic
D601,D603	223163	1SS133	C406,C478	370138224	8200pF±5%,100V,Plastic
D701-D705	223163	1SS133	C408	354780479	4.7μ F,50V,Elect.
D706,D707	224450752	MTZ7.5B, Zener	C409,C410	370131514	150pF±5%,100V,Plastic
D708,D709	224450472	MTZ4.7B, Zener	C411,C412	370131014	100pF±5%,100V,Plastic
D710-D712	223163	1SS133	C413-C416	374722734	0.027μ F±5%,50V,Plastic
D713	224450562	MTZ5.6B, Zener	C417,C418	374724714	470pF±5%,50V,Plastic
D901,D902	22380031	HER152	C419,C420	374721034	0.01μ F±5%,50V,Plastic
D907-D910	22380035	GP104003E	C421,C422	354761009	10μ F,35V,Elect.
D911	224451303	MTZ13C, Zener	C423,C424	354741019	100μ F,16V,Elect.
D912,D913	22380035	GP104003E			

<b>CIRCUIT NO.</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
	Capacitors	
C464	354722219	220μ F,6.3V,Elect.
C479,C480	374723324	3300pF±5%,50V,Plastic
C481	374721034	0.01μ F±5%,50V,Plastic
C482,C601	354780479	4.7μ F,50V,Elect.
C701,C702	354761009	10μ F,35V,Elect.
C704,C602	374721044	0.1μ F±5%,50V,Plastic
C706,C707	354721019	100μ F,6.3V,Elect.
C710,C711	354741019	100μ F,16V,Elect.
C715	354780109	1μ F,50V,Elect.
C719,C720	354780109	1μ F,50V,Elect.
C901,C906	374722734	0.027μ F±5%,50V,Plastic
C902,C903	374721044	0.1μ F±5%,50V,Plastic
C904	393352227	2200μ F,25V,Elect.
C905	393342227	2200μ F,16V,Elect.
C907	393354727	4700μ F,25V,Elect.
C908,C912	354741019	100μ F,16V,Elect.
C909	354742219	220μ F,16V,Elect.
C910,C913	374722734	0.027μ F±5%,50V,Plastic
C911	354780109	1μ F,50V,Elect.
C914	354762209	22μ F,35V,Elect.
C915,C917	354761019	100μ F,35V,Elect.
C916	354780479	4.7μ F,50V,Elect.
C918,C923	354744709	47μ F,16V,Elect.
C919,C920	354761009	10μ F,35V,Elect.
C922	374722734	0.027μ F±5%,50V,Plastic
C924	3500191	DE7150FZ103M, AC400V/125V, IS

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

MECHANISM-EXPLODED VIEW

TA-RW544



- (A) : MOLYKOTE X5
- (B) : SCREW LOCK
- R : NDM-187 only
- L : NDM-188 only
- Δ : NDM-188 only
- \* & Δ

REF. NO.	PART NO.	DESCRIPTION
2-2	24601245	Reel motor
3	24611428	Head plate
4	24601252	Main motor
5	24606534	Control pcb
18	24602551	Main belt
31	24602541	Pinch roller R
32	24602589	Pinch roller L

# PRINTED CIRCUIT BOARD-PARTS LIST

CIRCUIT NO.	PART NO.	DESCRIPTION
	Resistors	
R117,R120	5210265	N06HR50KBC, Trimming
R221,R222	5210263	N06HR20KBC, Trimming
R403,R404	453530824	8.2Ω±5%,1/2W,Metal
R417,R418	5210262	N06HR10KBC, Trimming
R496,R501	453530824	8.2Ω±5%,1/2W,Metal
R705	49163392404	RM1/10IJ, 3.9K×4, Array
R732,R733	443524704	47Ω±5%,1/2W,Metal oxide
R736	49163392408	RM1/10IJ, 3.9K×8, Array
R737	49163392410	RM1/10IJ, 3.9K×10, Array
R750,R751	5210263	N06HR20KBC, Trimming
R754,R755	5210262	N06HR10KBC, Trimming
R905	453530824	8.2Ω±5%,1/2W,Metal
R908	443521504	15Ω±5%,1/2W,Metal oxide

	Plugs	
P101,P102	25055136	NPLG-6P120
P202	25055038	NPLG-2P29
P203,P204	25055678	NPLG-8P634
P401,P455	25055132	NPLG-2P116
P901	25055675	NPLG-2P631

	Socket	
P701	25050861	NSCT-29P656

	Wire traps	
JL203a,JL204a	25050267	NSCT-3P95
JL301b	25055624	NPLG-3P586
JL901b	25050269	NSCT-5P97

	Wire holders	
JL704a,JL705a	25051101	NSCT-7P888
JL706a,JL707a	25051097	NSCT-3P884
JL708a,JL709a	25051101	NSCT-7P888

	Terminals	
P201	25045329	NPJ-4PDBL183
P702	25045330	NPJ-2PDBL184, RI

	Switch	
S901	25035636	NPS-111-L590P

### POWER SUPPLY CIRCUIT PC BOARD (NAPS-5087-4)

CIRCUIT NO.	PART NO.	DESCRIPTION
JL901a	25051109	NSCT-5P896, Wire holder

### INPUT LEVEL VOLUME PC BOARD (NAETC-5088-4)

CIRCUIT NO.	PART NO.	DESCRIPTION
	Resistors	
R203	5104345Y	N09RLC250KW15F, Variable
R205,R206	5104346Y	N09RGL50KA15F, Variable

### HEADPHONE TERMINAL PC BOARD (NAETC-5089-4)

CIRCUIT NO.	PART NO.	DESCRIPTION
P301	25045255	YKB21-5009, Jack
JL301a	25051087	NSCT-3P874, Wire holder

### VOLTAGE SELECTOR SWITCH PC BOARD(NASW-5090-4)

CIRCUIT NO.	PART NO.	DESCRIPTION
S902	25065437	NSS-22157P,Slide switch

### DISPLAY CIRCUIT PC BOARD (NADIS-5093-4)

CIRCUIT NO.	PART NO.	DESCRIPTION
	FL tube	
Q801	212137	BJ328GK
	Switches	
S801-S819	25035652	NPS-111-S604, P SW
	Socket	
P801	25050893	NSCT-29P688
	Holder	
	27190939Y	FL

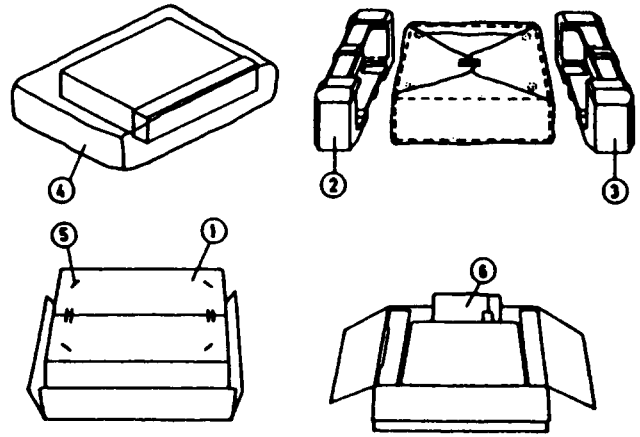
### RECORDING AMPLIFIER PC BOARD (NAAF-5094-4)

CIRCUIT NO.	PART NO.	DESCRIPTION
	Transistors	
Q451,Q452	2213285 or 2213284	2SC1740S-S or 2SC1740S-R
Q453-Q458	221281	DTC114YS
	ICs	
Q463	22240267	CXA1198A
Q464	222959	MPC1297CA
	Diodes	
D451,D452	223163	1SS133
	Coils	
L451,L452	231218	NCH-4453, Choke
L453,L454	231221	NTR-6507, Trap
	Capacitors	
C451,C452	354780479	4,7μ F,50V,Elect.
C453,C454	354780109	1μ F,50V,Elect.
C455,C456	354780229	2.2μ F,50V,Elect.
C457,C458	354741019	100μ F,16V,Elect.
C459,C460	354761009	10μ F,35V,Elect.
C461	354742219	220μ F,16V,Elect.
C462,C463	354761009	10μ F,35V,Elect.
C465,C466	374722734	0.027μ F±5%,50V,Plastic
C467,C468	374721034	0.01μ F±5%,50V,Plastic
C469,C470	374724714	470pF±5%,50V,Plastic
C471,C472	374722734	0.027μ F±5%,50V,Plastic
C473,C474	370131014	100pF±5%,100V,Plastic
C475,C476	370131514	150pF±5%,100V,Plastic
C483	354780479	4.7μ F,50V,Elect.

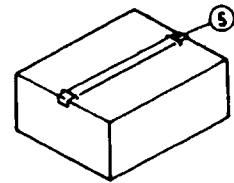
	Resistors	
R455,R456	5210294	N06HR22KBE, Trimming
R489,R490	5210292	N06HR10KBE, Trimming

	Sockets	
P451,P452	25051127	NSCT-8P914, Socket

**PACKING VIEW**



REF.NO.	PART NO.	DESCRIPTION
1	29053110Y	Carton box
2	29091636-1CY	Pad L
3	29091637-1CY	Pad R
4	29100034-1AY	650×850mm, Styren bag
5	282301	Staples
6	<b>Accessory bag ass'y</b>	
	29342382Y	Instruction manual, E
	29342383Y	Instruction manual U3 (FSI) <P>
	29342384Y	Instruction manual U3 (GDSW) <P>
	29342385Y	Instruction manual T <W/T>
	2010244Y	Connection cord
	29100097-1AY	350×250mm, Styren bag
	29365019B	Warranty card <D>
	29358002K	Service station list <D>
	29362001Y	Label UPC <D>
	29361786Y	Label <W/T>
	25055040	CV-K-2, Conversion plug <W>



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

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