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### **ONKYO** SERVICE MANUAL

Ref. No. 3390

### STEREO CASSETTE TAPE DECK MODEL TA-RW404



### Black model

UDN, UDC, UD	120V AC, 60Hz
UP	230V AC, 50Hz
UW	120 or 220V AC, 50/60Hz

COMPONENTS IDENTIFIED BY MARK  $\triangle$  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.

**SAFETY-RELATED COMPONENT WARNING!!** 

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.

### ONKYO. AUDIO COMPONENTS

### **SPECIFICATIONS**

Track System: 4-tracks, 2-channels

Erasing 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 dub-

bing)

Wow and Flutter: 0.07% (WRMS)

Frequency Response: 20 – 15,000Hz (Normal)

(30 – 14,000Hz ±3dB) 20 – 16,000Hz (High) (30 – 15,000Hz ±3dB) 20 – 17,000Hz (Metal) (30 – 16,000Hz ±3dB)

S/N Ratio: Dolby NR off: 58dB (metal position tape)

A noise reduction of 10dB above 5kHz and 5dB at 1kHz is possible with Dolby B NR. A noise reduction of 20dB at 5kHz is

possible with Dolby C NR.

Input Jacks: Line IN: 2

Input sensitivity: 80mV Input impedance: 50 kohms

Outputs: Headphone jack: 1

Optimum load impedance: 8 to 200

ohms Line OUT: 2

Standard output level: 500mV (0dB)

Optimum load impedance: over 50

kohms

Motors: Heads: DC servo motor x 2; DC motor x 2

REC/PB: 1 PB: 1

ERASE: 1

Power Supply Rating: Europian models: AC 230V, 50Hz:

Canadian models: AC 120V, 60Hz Worldwide models: AC 120V and 220V

switchable, 50/60Hz

Power Consumption: 34 watts

Dimensions:

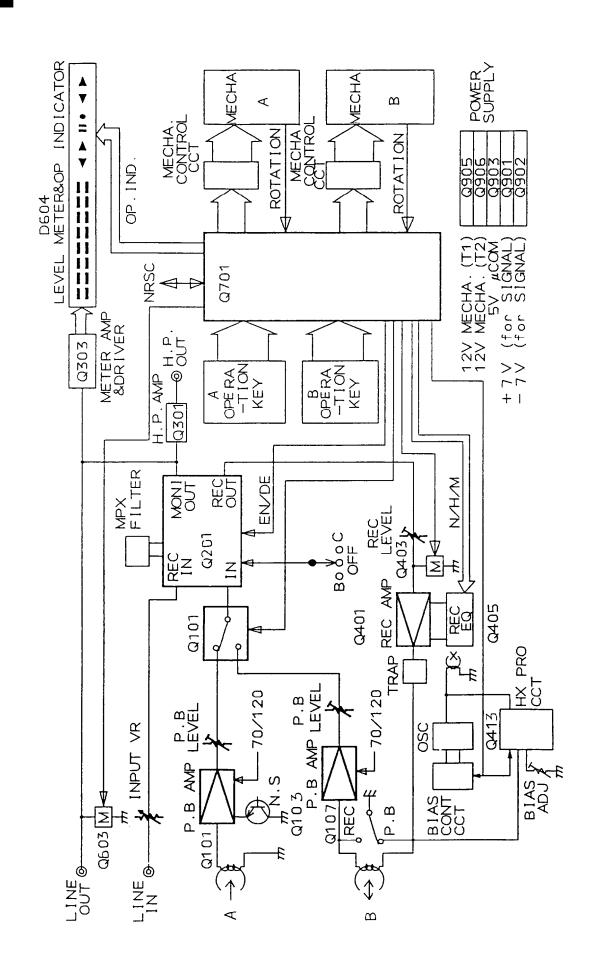
455(W) x 120(H) x 306(D)mm

(17-15/16" x 4-3/4" x 12-1/16")

Weight:

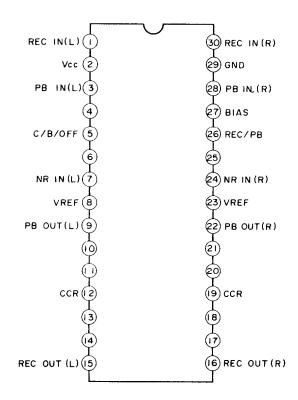
5.5 kg. (12.1 lbs.)

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

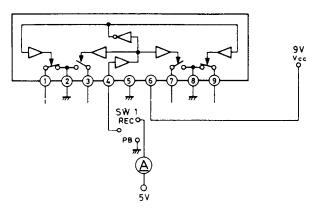


### IC BLOCK DIAGRAM

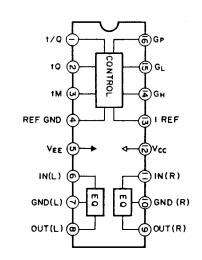
### HA12142NT (DOLBY NR)



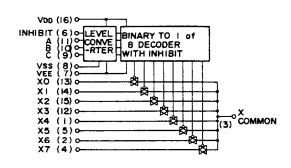
### $\mu$ PC1330HA (REC/PB SW)



### CXA1198A (REC EQ)

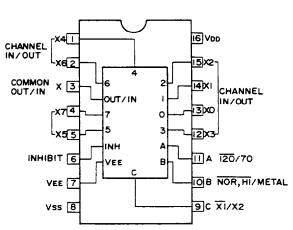


### 4051B (ANALOG SW)



INHIBIT	A(11)	B(10)	C(9)	ON SWITCH
L	L	L	L	XO (13)
L	Н	L	L	XI (14)
L.	L	н	L	X2 (15)
L	Н	н	L	X3 (12)
L	L	L	Н	X4 ( 1 )
L	Н	L	Н	X5 ( 5 )
L	L	Н	Н	X6 (2)
L	Н	Н	Н	X7 (4)
Н	×	X	X	NONE

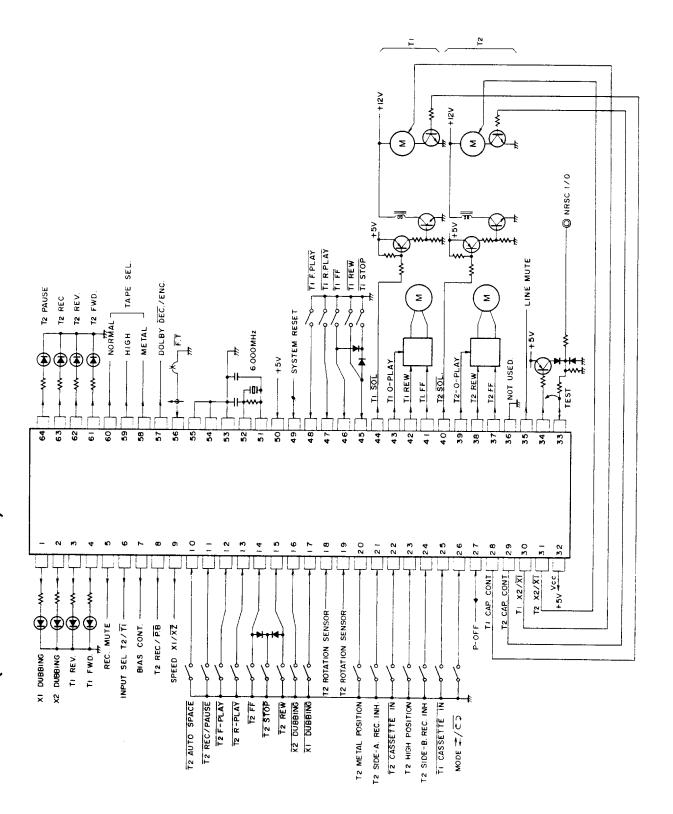
X: Don't Care



### MICRO COMPUTER PORT NAMES AND FUNCTION (HD614049SA83)

411 C 1 1	O COMPOTER	FUNI	NAMES AND FUNCTIO
No.	Name	IN/OUT	Function
1	X1 DUBBING LED	0	Dubbing indication, H:ON
2	X2 DUBBING LED	0	Dubbing indication, H:ON
3	TI REV. LED	0	REV play indication, H:ON
4	TI FWD, LED	0	FWD play indication. H:ON
5	REC. MUTE	0	
	· · · · · · · · · · · · · · · · · · ·		Recording muting, H:ON
6	INPUT SEL. T2/T1	0	T1/T2 play back signal selection
7	BIAS CONTROL	0	Bias oscillation control, H:ON
8	REC/PB	0	REC/PB selection
9	SPEED X1/X2	0	Tape speed selection
10	T2 AUTO SPACE	I	Auto space operation
11	T2 REC/PAUSE	I	REC/PAUSE operation
12	T2 FWD-PALY	1	FWD-PLAY operation
13	T2 REV-PALY	I	REV-PLAY operation
14	T2 FF	ı I	Fast forward operation
15	T2 REW	i i	
	* ·	•	Rewind operation
	X2 DUBBING	I	Dubbing operation
17	X1 DUBBING	I	Dubbing operation
18	TI ROTATION-SENSOR	. I	Reel rotation sensor
19	T2 ROTATION-SENSOR	I	. Reel rotation sensor
20	METAL SW.	I	Record equalizer selection (METAL)
21	T2 SIDE-A REC. INH.	1	Recording prevention
22	T2 CASSETTE IN	I	Cassette loading detection (SIDE-A)
23	CrO <sub>2</sub> SW.	ı	Record equalizer selection (HIGH)
			· · · · · · · · · · · · · · · · · · ·
24	T2 SIDE-B REC. INH.	. I	Recording prevention (SIDE-B)
25	T1 CASSETTE IN	I	Cassette loading detection
26	MODE <b>₹</b> / 📆	I	Reverse mode selection
27	P-OFF	I	Power OFF detection
28	TI CAPSTAN ON/OFF	0	Capstn motor control
29	T2 CAPSTAN ON/OFF	0	Capstan motor control
30	TI SPEED X2/XI	O	Tape speed control
	· + · · · · · · · · · · · · · · · · · ·	0	+ ' '
31	T2 SPEED X2/X1	+	Tape speed control
32	Vcc	1	V <sub>CC</sub> +5V
33	NRSC IN	1	Remorte control signal
34	NRSC OUT	О	Remote control signal
35	LINE MUTE	0	Line muting
36	NOT USED		
37	T2 REEL-FF	0	Reel motor rotation fast forward
38	T2 REEL-REW	0	Reel motor rotation in rewind
39	T2 O-PLAY	. 0	Reel motor rotation PLAY with "H"
	T2 SOLENOID	0	Solenoid drive
40		-	· · · · · · · · · · · · · · · · · · ·
41	T1 REEL-FF	0	Reel motor rotation fast forward
42	T1 REEL-REW	· O	Reel motor rotation in rewind
43	T1 O-PLAY	О	Reel motor rotation PLAY with "H"
44	T1 SOLENOID	О	Solenoid drive
45	TIREW	I	Key input to cause rewind
46	TIFF	1	Key input to cause fast forward
47	TI REW-PALY	I	Key input to casue REV-PLAY
48	TI FWD-PALY	1	Key input to cause FWD-PLAY
49	SYSTEM RESET	* · · · · · · · · · · · · · · · · · · ·	System reset for microcomputer
	···	-	System reset for interocomputer
50	TEST		
51, 52	OSC1, OSC2	+	System clock OSC
53	GND		GND
54	NOT USED	:	
55	NOT USED		
56	ET	+	
57	DOLBY ENC/DEC	O	Dolby ENC/DEC selector
58	TAPE SEL. METAL	<del></del>	Tape selector
	-+	0	·
59	TAPE SEL. HIGH	. 0	Tape selector
60	TAPE SEL. NORMAL	<u>o</u>	Tape selector
. 62	T2 FWD. LED	0	FWD indication, H:ON
	T2 REV. LED	О	REV indication, H:ON
61			
61 59	T2 REC. LED	О	REC indication, H:ON

# MICRO COMPUTER (HD614049SA83)



### **ADJUSTMENT PROCEDURES**

### **PRECAUTIONS**

- 1. Before adjustment, clean the following parts with an alchol moinstend swab.
  - \* record/playback head
- \* erase head
- \* pinch roller
- capstan
- 2. Do not use magnetized screwdriver for adjustments.
- 3. Demagnetize record/playback head with a head demagnetizer.

### TEST EQUIPMENT/TOOLS REQUIRED:

Audio oscillator

Digital frequency counter

Oscilloscope

Attenuator

AC voltmeter

Non-magnetic screw driver

Test tapes

TCC-153

: 10 KHz, - 5dB

MTT-111 MTT-150

: 3 kHz, - 0dB

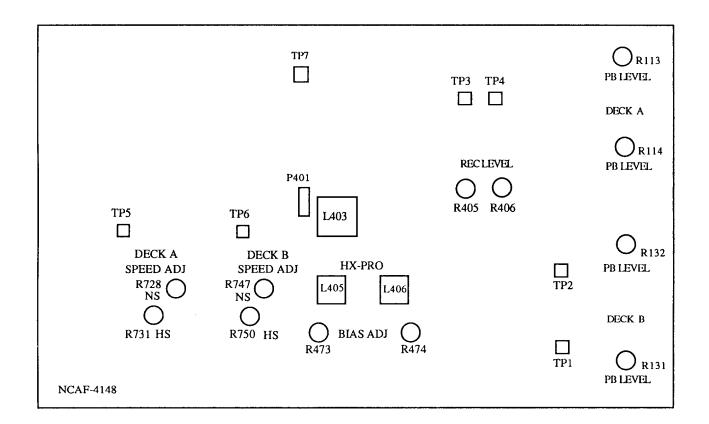
: Dolby level calibration

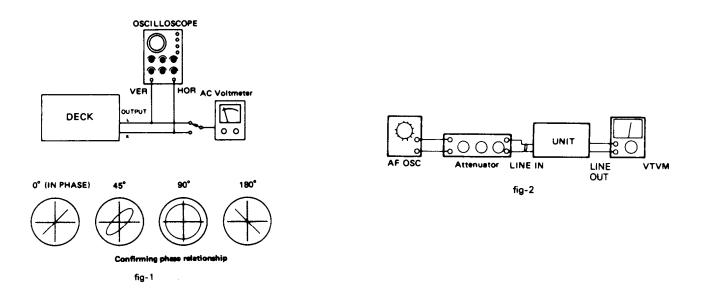
400Hz, tone 200nWb/m

	Item	Connection of instrument	Line input	Test tape	Mode	Output indicator	Adjustment point	Adjust	Remaks
ı	Tape speed	Frequency counter to LINE output terminal		MTT-111	РВ	Frequency counter	T1 Normal R728 T1 High R731 T2 Normal R747 T2 High R750	3005±5Hz 6010±10Hz 3005±5Hz 6010±10Hz	High speed connect the TP5 (T1) to GND TP-6 (T2) to GND High speed first
2	Head azimuth	AC voltmeter and oscillo- scope to LINE output terminal		TCC-153	PB	AC voltmeter	Haed azimuth screw	Maximum and same phase at channels L and R	fig-1
3	Play- back level	AC voltmeter to terminals TP-3 and TP-4		MTT-150	PB	AC voltmeter	T1 R113 (Ch.L) T1 R114 (Ch.R) T2 R131 (Ch.L) T2 R132 (Ch.R)	300mV	
4	OSC Block	Frequency counter to P401 read loose coupling		T2 METAL TAPE MX-C90	T2 REC	Frequency counter	L403	85kHz±2kHz	
5	HX- PRO	AC voltmeter to terminals TP-1 and TP-2		METAL TAPE	REC	AC voltmeter	L-405 (Ch.L) L-406 (Ch.R)	Maximum	R-473 R-474 clock wise (max)
6	Bias current	fig-2	1kHz, -20dB and 12kHz, -20dB	XL-II C-90	REC/PB	AC voltmeter	R473 (Ch.L) R474 (Ch.R)	Same level at REC/PB	Input VR maximum.
7	Record	fig-2	IkHz	XL-II C-90	REC	AC voltmeter	Attenutor or AF OSC output	350mV	
,	level	11g-2	INIIZ	AL-11 C-70	REC/PB	AC voltmeter	R405 (Ch.L) R406 (Ch.R)	Same level at REC/PB	

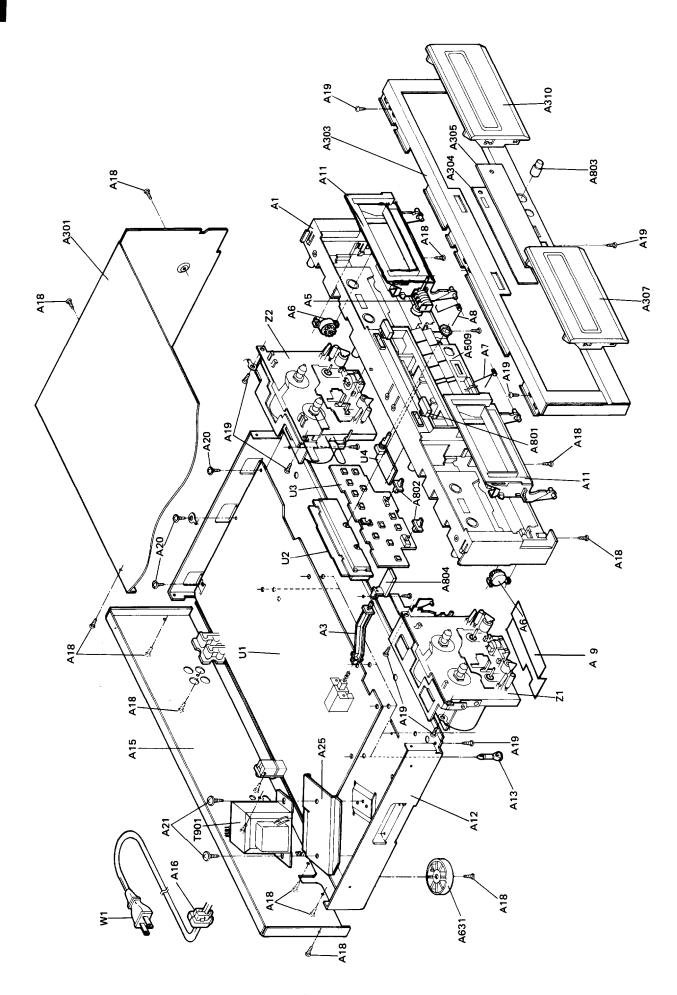
Blank tape

NORMAL	UD-1 C-90
HIGH	XL-II C-90
METAL	MX C-90
PLAY torque	30~70g/cm
FF. REW torque	80~180g/cm
Back tention	





## CHASSIS-EXPLODED VIEW



# CHASSIS-EXPLODED VIEW PARTS LIST

DESCRIPTION NAAF-4148-2 NADIS-4149-2 NASW-4150-2 NAETC-4151-2 CASSETTE DECK-A MECHANISM CASSETTE DECK-B MECHANISM odel	NOTE: THE COMPONENTS IDENTIFIED BY MARK AARE CRITICAL FOR RISK OF FIRE AND ELECTRIC SHOCK. REPLACE ONLY WITH PART NUMBER SPECIFIED.
PART NO. DE IN099548-2 N/ IN099550-2 N/ IN099551-2 N/ 244149 C/ 244149 C/ (D): Only 120V model (W): Only 230V model (W): Only worldwide model	NOTE: THE CC ARE CF ELECTR PART N
MEF. NO.  U1  U2  U3  U4  Z1  Z2  (W)  (W)	
PESCRIPTION FRONT BRACKET AS JOINT (POW): TAPE COUNTER DAMPER SPRING (A) SPRING (B) BRACKET (F) FRAME (CASSETTE) FRAME (CASSETTE) FRAME (CASSETTE) FRAME (CASSETTE) SPRING CUSHION CHASSIS HOLDER BACK PANEL (B) BACK PANEL (B) BACK PANEL (C) TAP-TIGHT SCREW 3TTY+8B (BC) TAP-TIGHT SCREW 3TTY+8B TAP-TIGHT SCREW 3TTY+8B TAP-TIGHT SCREW 3TTY-8B TAP-TIGHT SCREW 3TTY-8B CUSHION 250×10×.91 TAP-TIGHT SCREW 3TTY-8B TAP-TIGHT SCREW 20 TAP-TIGHT SCREW 20 TAP-TIGHT SCREW 3TTY-8B TAP-TIGH	AC CORD AS-CEE (G/W) NPT-1100D (D) NPT-1100P (G) NPT-1100DG (W)
PARTS NO. 27,110617A 27273135A 24601220 28400282 27180476 27180476 27180477 27180435 28400438 27190480 27121413-1 2840069 27130608D 2813328 2813328 28191586 28400625 28400625 28324233 28324233 28324233	<b>△</b> 253149 <b>△</b> 2300632 <b>△</b> 2300633 <b>△</b> 2300634
#EF. NO.  A 2 A A A A B A B A B A B B A B B A B	-

### PRINTED CIRCUIT BOARD PARTS LIST

NAAF-4148-2	2		CIRCUIT NO.	<b>PART NO.</b>	DESCRIPTION
CIRCUIT NO.	PART NO.	DESCRIPTION	Q905, Q906	2213284 2202115 or	2SC1740S-R 2SD2061-E or
	Ics			2202116	2SD2061-F
Q101, Q107	222956	NJM-2068D-D		Diodes	
QIII	222933 or	BU-4066B or	D601~D603	223163	1SS133
0201	222840661	4066B	D701, D704	224450752	MTZ7.5B
Q201	22240388	HA12142NT	D702, D705	224450433	MTZ4.3C
Q301	22240368 or 222652	M5218AL or M5218L	D703	223163	1SS133
Q401	22240267	CXA1198AP	D706, D707	223163	1SS133
Q405	222840511	4051B	D708	224150562	05AZ5.6Y
Q413	222959	μPC1297CA	D709	223163	1SS133
Q605	22240147	μPC1330HA	D901~D906	22380046	AM01Z
Q701	22240454	HD614049SA83	D907, D908 D909	223163 224150623	1SS133 05AZ6.2Z
Q702	22240239	HA-7291S	D909 D910	224151303	05AZ0.2Z 05AZ13Z
Q710	22240239	TA-7291S	D911, D912	223163	1SS133
Q901	222780075MIT	78M07L	5711, 5712		100155
Q902	222790075MIT	79M07L	1.201 1.202	Coils	ND 462 (050
Q903	222780055MIT	78M05	L201, L202 L401, L402	233407 231165	NMC-6079
	Transistors		L403	231163	NTR-6506 NLO-2037
Q103~Q106	2213285 or	2SC1740S-S or	L405	231127	NCH-4183
	2213284	2SC1740S-R	B 100		14011-4105
Q109, Q110	2213285 or	2SC1740S-S or	V701	Crystal	COTA COLLON
0113	2213284	2SC1740S-R	X701	3010149	CST6.00MGW
Q113	221281 or	DTC114YS or		Capacitors	
Q203	2213570 221281 or	RN1207	C111, C112	393142217	220 μF16V, ELECT.
Q205	221261 01	DTC114YS or RN1207	C123, C124	393142217	220 μF16V, ELECT.
Q205	2212600 or	DTA124ES or	C203~C206	393184797	0.47 μF50V, ELECT.
Q203	2213580	RN2203	C207 C213, C214	393142207	22 μF16V, ELECT.
Q403, Q404	2213285 or	2SC1740S-S or	C217~C220	393180227 393181097	2.2 μF50V, ELECT. 0.1 μ50V, ELECT.
	2213284	2SC1740S-R	C221, C222	393181097	2.2 μF50V, ELECT.
Q407	221281 or	DTC114YS or	C401, C402	393180107	1 μF50V, ELECT.
	2213570	RN1207	C404~C406	393180227	2.2 μF50V, ELECT.
Q408	2212855 or	2SB1068-U or	C407	393122217	220 μF6.3V, ELECT.
~	2212853	2SB1068-K	C408	393144707	47 μF16V, ELECT.
Q409	2211706	2SD655-F	C411	370131234	0.012 μF100V, APS
Q411, Q412 Q415, Q416	2211544 221281 or	2SC1959-Y	C421	370131014	100PF100V, APS
Q415, Q416	2213570	DTC114YS or RN1207	C427	393144707	47 μF16V, ELECT.
Q601	221281 or	DTC114YS or	C601 C604	393180477	4.7 μF50V, ELECT:
<b>4</b>	2213570	RN1207	C701	393184797 393142207	0.47 μF50V, ELECT.
Q602	2213355 or	2SA933S-S or	C703	393142207	22 μF16V, ELECT. 100 μF16V, ELECT.
	2213354	2SA933S-R	C704	393184797	0.47 μF50V, ELECT.
Q603, Q604	2211706	2SD655-F	C707	393141017	100 μF16V, ELECT.
Q703, Q704	221281 or	DTC114YS or	C708	393184797	0.47 μF50V, ELECT,
0705	2213570	RN1207	C711	393180107	1 μF50V, ELECT.
Q705	2211945 or	2SK246-GR or	C714, C715	393184797	0.47 μF50V, ELECT.
Q706	2212304	2SK381-D	C901	3500065A	0.01 μF AC400V, IS.
Q700	2212600 or 2213580	DTA124ES or RN2203	C903	393152227S	2200 μF25V, ELECT.
Q707, Q708	2211706	2SD655-F	C904	393142217	220 μF16V, ELECT.
Q709	2211255	28C1815-GR	C906 C907	393152227S	2200 μF25V, ELECT.
Q711, Q712	221281 or	DTC114YS or	C909	393142217 393156827S	220 μF16V, ELECT. 6800 μF25V, ELECT.
	2213570	RN1207	C910	393180107	1 μF50V, ELECT.
Q713	2211945 or	28K246-GR or	C911	393142217	220 μF16V, ELECT.
	2212304	2SK381-D	C913~C915	393141017	100 μF16V, ELECT.
Q714	2212600 or	DTA124ES or	C916	393180477	4.7 μF50V, ELECT.
0715 07:	2213580	RN2203	C917	393144717	470 μF16V, ELECT.
Q715, Q716	2211706	2SD655-F	C919	393144717	470 μF16V. ELECT.
Q717	2211255	2SC1815-GR	C921	393142217	220 μF16V, ELECT.
Q718, Q719	2212600 or	DTA124ES or PN2203	C923	393142217	220 μF16V, ELECT.
Q720	2213580 2212600 or	RN2203 DTA124ES or	C925, C926	393141017	100 μF16V, ELECT.
Q120	2213580	RN2203	C927	393141017	100 μF16V, ELECT.
Q904	2213285 or	2SC1740S-S or	C929, C933 C931, C932	393141017 393141007	100 µF16V, ELECT.
-			C731, C732	27214 IUU/	10 μF16V, ELECT.

### PRINTED CIRCUIT BOARD PARTS LIST

CIRCUIT NO.	PART NO.	DESCRIPTION
	Resistors	
R113, R114	5210220	N06HR50KBD
R131, R132	5210220	N06HR50KBD
R405, R406	5210064	N06HR10KBD
R458	442520104F	RS1/2WBJ 1Ω
R459	442524704F	RS1/2WBJ 47Ω
R461	442522214F	RS1/2WBJ 220Ω
R472	442523304F	RS1/2WBJ 33Ω
R473, R474	5210064	N06HR10KBD
R724	442524704F	RS1/2WBJ 47Ω
R728	5210218	N06HR20KBD
R731	5210217	N06HR10KBD
R743	442524704F	RS1/2WBJ 47Ω
R747	5210218	N06HR20KBD
R750	5210217	N06HR10KBD
R903	441622704F	RS1/2WBJ 27Ω
R905, R906	442520224F	RS1/2WBJ 2.2Ω
R911, R912	442522704F	RS1/2WBJ 27Ω
	Switch	
S901	25035558	NPS-111-L520P
	Plug	
P101	25055133	NPLG-3P117
P102	25055136	NPLG-6P120
P201	25045329 or	NPJ-4PDBL183 or
	25045338	NPJ-4PDBL189
P401	25055132	NPLG-2P116
P701	25045330	NPJ-2PDBL184
	Socket	
P702A	2000991	NSAS-14P943
P703A	2000992	NSAS-6P944
P704A	2000990	NSAS-6P942
P705A	2000991	NSAS-14P943
P706A	2000992	NSAS-6P944
P707A	2002391210	NSAS-12P0235
		113713-121 023.3
	Miscellaneous	
	27160211-1	RAD-68B, RADIATOR
	27160211	RAD-68, RADIATOR
	27141059	BRACKET
	25060092	NTM-1S33
	82143006	3P+6FN(BC), SCREW

CIRCUIT NO.	PART NO.	DESCRIPTION
	Switchs	
S201	25065297	NSS-23119, DOLBY
S701~S705	25035548	NPS-111-S510
S706	25065364	NSS-12138, MODE
S707~S715	25035548	NPS-111-S510

### NAETC-4151-2

CIRCUIT NO.	PART NO.	DESCRIPTION
	Variable resist	or
R203, R204	5104214	N09R2L50kA15F
P301	Plug	W.57. com
F301	25045255	YKBZ1-5009

### NADIS-4149-2

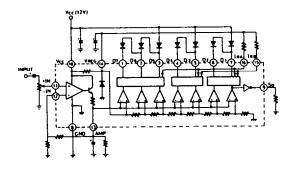
CIRCUIT NO.	PART NO.	DESCRIPTION
Q303, Q304	l <b>c</b> 222623	IR2E02
D604	<b>LED</b> 225253A	LS-0241
	Capacitors	
C301, C302	353750479S	4.7 μF25V, ELECT.
C303, C304	353780109S	1 μF50V, ELECT.
C305	3537504798	4.7 μF25V, ELECT.
	Socket	
P708A	2000985A	NSAS-18P937

### NASW-4150-2

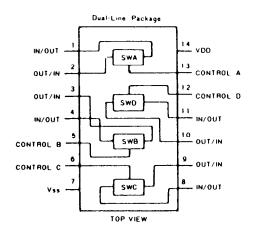
CIRCUIT NO.	PART NO.	DESCRIPTION
	Diode	
D710~D713	223163	1SS133

### IC BLOCK DIAGRAM

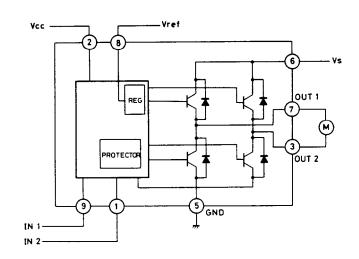
### **IR-2E02 (LEVEL METER DRIVE)**



### 4066B (ANALOG SW)

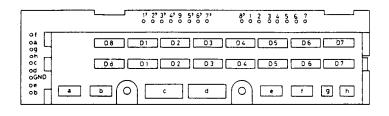


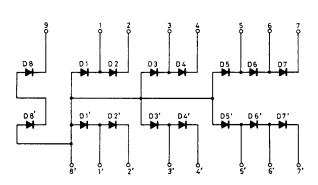
### TA-7291S (MOTOR DRIVE)

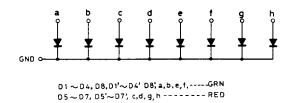


	ОПТРИТ		INPUT	
MODE	OUT 2	OUT 1	1N 2	IN 1
STOP	80	œ	0	0
cw/ccw	7	н	0	1
ccw/cw	Н	L	1	0
BRAKE	L	L	1	1

### LS. 0241 (DISPLAY TUBE)





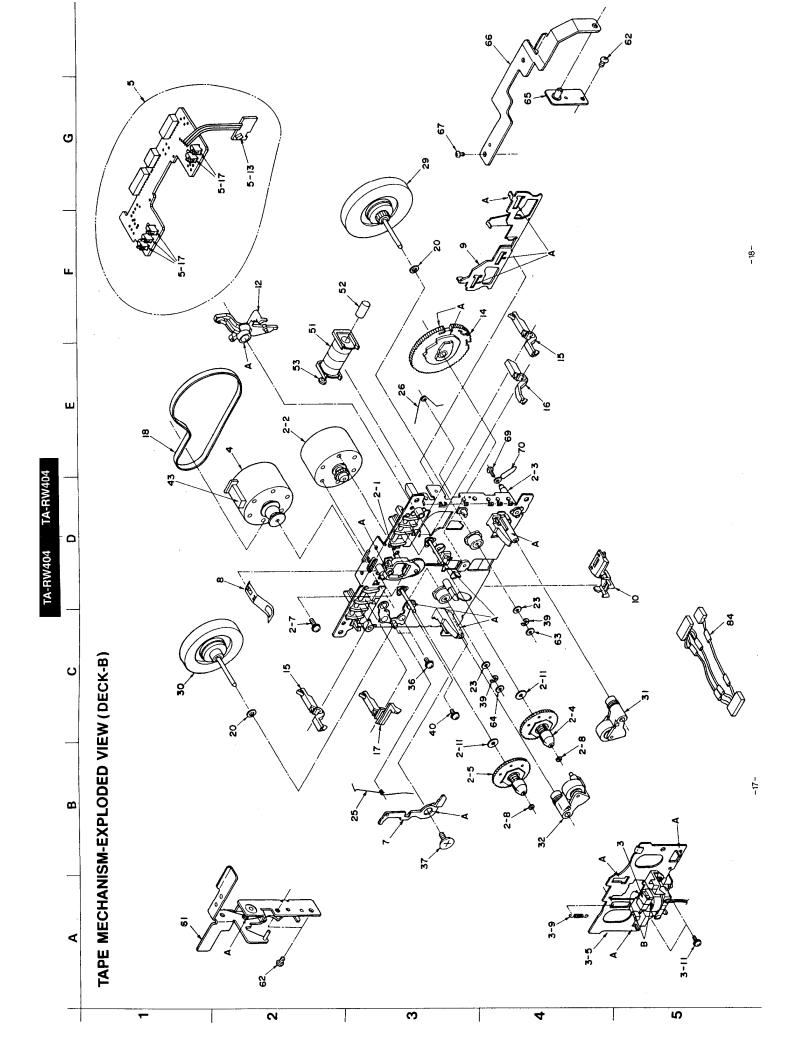


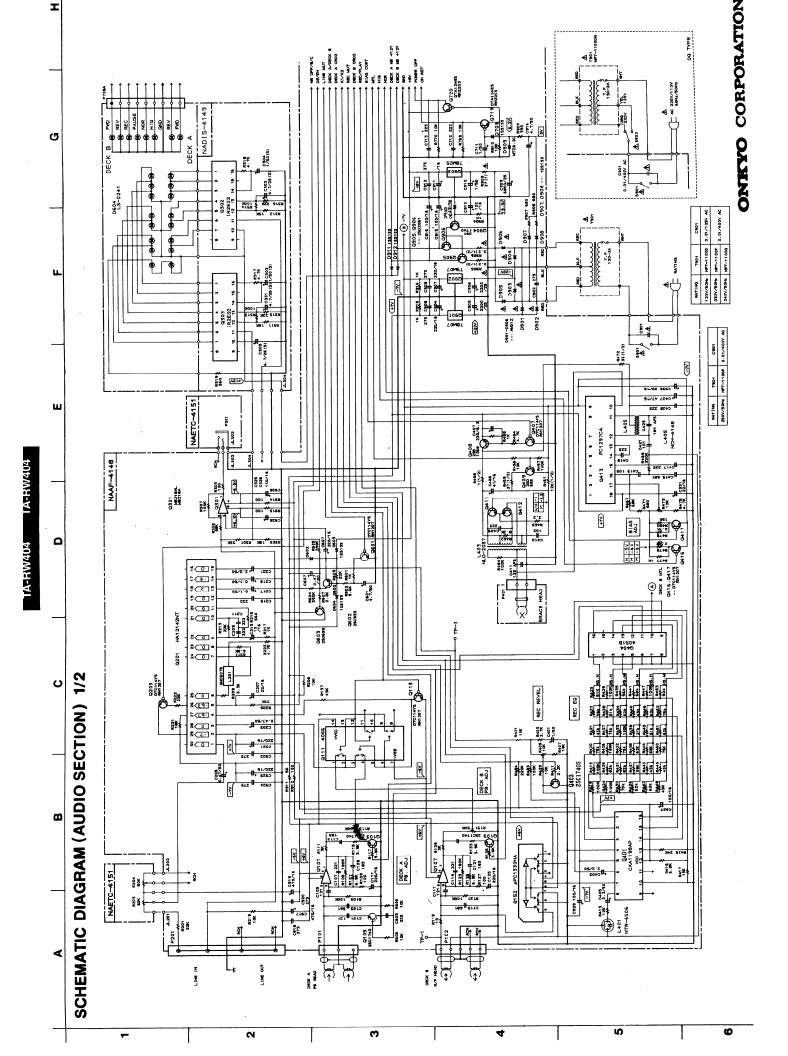
### TAPE MECHNISM PARTS LIST (DECK-B)

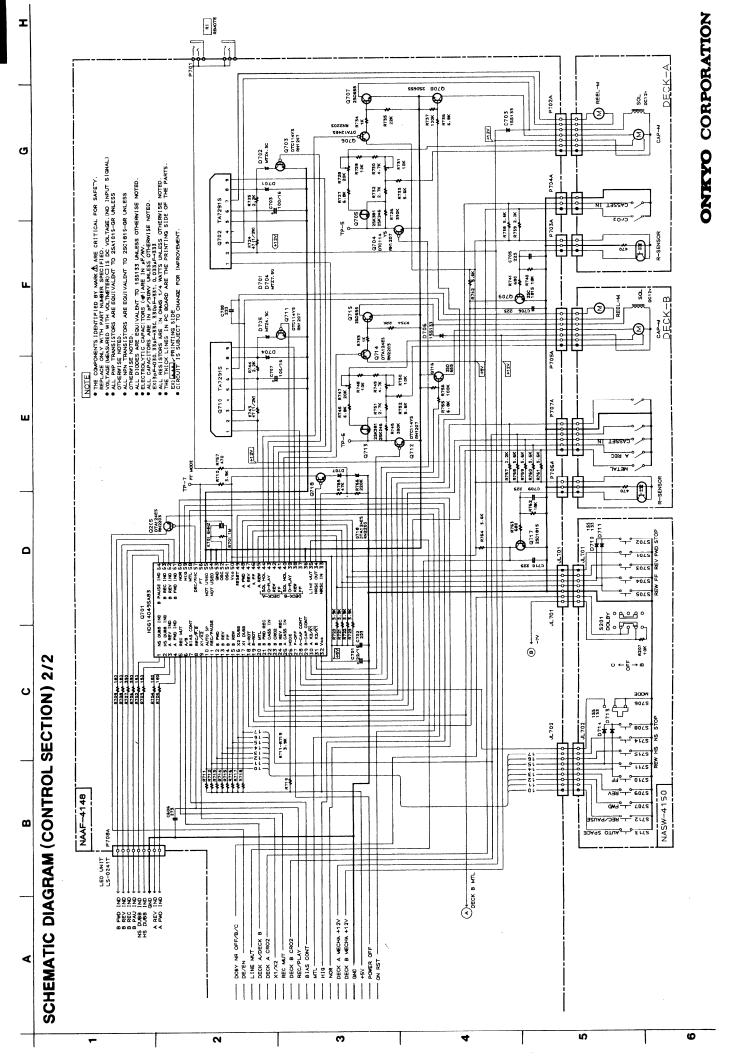
REF.NO.	PARTS NO.	DISCRIPTION
2-1	24602482	IDLER AS
2-2	24601245	REEL MOTOR
2-3	24611382A	BASE AS (CHASSIS)
2-4	24602483	BASE AS (REEL)
2-5	24602484	BASE AS (REEL)
2-7	24609032	PAN HEAD SCREW 2.6×6.4ZN
2-8	24611177	PLASTIC WASHER 1.7×3.2×.25
2-11	24611175	PLASTIC WASHER 2.1×7×.25
3	24611428	R/ P HEAD AS
3-5	24611383B	BASE (HEAD)
3-9	24605711	SPRING
3-11	833120059	TAPPING SCREW 2×5ZN
4	24601252	MAIN MOTOR AS
5	24606334	P.C.B. AS (CONTROL)
5-13	24606319	GP2S04B
5-17	24606271	PUSH SWITCH
7	24607041B	ARM (PROTECT) R
8	24605739	SPRING
9	24611384A	SLIDE PLATE
10	24611385	LEAD HOLDER
12	24607101	ARM (PLAY)
14	24602485A	CAM GEAR (3R)
15	24603365A	LEVER (REC)
16	24603369	LEVER (PACK)
17	24603367	LEVER (METAL)
18	24602486	MAIN BELT
20	24611041	PLASTIC WASHER 2.6×0.25
23	24610841	PLASTIC WASHER 2.6×4.7×.5
25	24605714	SPRING (R)
26	24605716	SPRING
29	24602487	FLYWHEEL AS
30	24602528	FLYWHEEL AS
31	24602414C	PINCH ROLLER AS (R)
32	24602421C	PINCH ROLLER AS
36	24609001	PAN HEAD SCREW SW2.6×5ZN
37	24609001 24609006A	SCREW
39	8930151	E WASHER 1.5S
40	838130080	WAVE SCREW 3×8
43	24611488	CUSHION (HOLDER)
51	24606333	SOLENOID COIL AS
52	24606332A	CORE
53	24606331	PLANGER
61	24611429	PLATE HOLDER AS
62	833126049	TAP-TIGHT SCREW 2.6TTP+4C
63	24611188A	WASHER (OIL SEAL)
64	24610844	WASHER (OIL SEAL) WASHER 1.9×5×0.25
65	24611389	PLATE HOLDER AS
66	24607099	EJECT ARM (A)
67	24607099	SCREW 2.0×4ZN
69	838126080	SCREW 2.6×8
70	24611323	LUG
84	24611323	
0+	24000439	WIRE CONNECTOR (R/P)

### TAPE MECHNISM PARTS LIST (DECK-A)

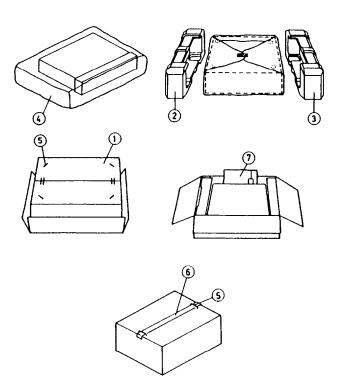
REF.NO.	PARTS NO.	DISCRIPTION
2-1	24602482	IDLER AS
2-2	24601245	REEL MOTOR
2-3	24611382A	BASE AS (CHASSIS)
2-4	24602483	BASE AS (REEL)
2-5	24602484	BASE AS (REEL)
2-7	24609032	PAN HEAD SCREW 2.6×6.4ZN
2-8	24611177	PLASTIC WASHER 1.7×3.2×.25
2-11	24611175	PLASTIC WASHER 2.1×7×.25
3	24600087	P HEAD AS
3-5	24611383B	BASE (HEAD)
3-9	24605711	SPRING
3-11	833120059	TAPPING SCREW 2×5ZN
4	24601252	MAIN MOTOR AS
5	24606334	P.C.B. AS (CONTROL)
5-13	24606319	GP2S04B
5-17	24606271	PUSH SWITCH
7	24607065B	ARM (PROTECT) R
8	24605739	SPRING
9	24611384A	SLIDE PLATE
10	24611385	LEAD HOLDER
12	24607101	ARM (PLAY)
14	24602485A	CAM GEAR (3R)
15	24603365A	LEVER (REC)
16	24603369	LEVER (PACK)
18	24602486	MAIN BELT
20	24611041	PLASTIC WASHER 2.6×0.25
23	24610841	PLASTIC WASHER 2.6×4.7×.5
25	24605762	SPRING (R)
26	24605716	SPRING
29	24602487	FLYWHEEL AS
30	24602528	FLYWHEEL AS
31	24602414C	PINCH ROLLER AS (R)
32	24602421C	PINCH ROLLER AS
36	24609001	PAN HEAD SCREW SW2.6×5ZN
37	24609006A	SCREW
39	8930151	E WASHER 1.5S
40	838130080	WAVE SCREW 3×8
43	24611488	CUSHION (HOLDER)
51	24606333	SOLENOID COIL AS
52	24606332A	CORE
53	24606331	PLANGER
61	24611426	PLATE HOLDER AS
62	833126049	TAP-TIGHT SCREW 2.6TTP+4C
63	24611188A	WASHER (OIL SEAL)
64	24610844	WASHER 1.9×5×0.25
69	838126080	SCREW 2.6×8
70	24611323	LUG
84	24606460	WIRE CONNECTOR (P/B)







### **PACKING VIEW**



### **PART LIST**

REF. NO.	PART NO.	DESCRIPTION	
1	29052163	Master carton box	
2	29091452A	Pad (L)	
3	29091453A	Pad (R)	
4	29100105	620×550 Poly bag	
5	282301	Sealing hook	
6	29110071	Damplon tape	
7	Accessary bag ass'y		
	29341602	Instruction manual (D)	
	29341604	Instruction manual (G/W)	
	2010098A	Connection cable	
	29365024	Warranty card (F)	
	29100107	Poly bag (F)	
	29365019A	Warranty card (N)	
	29358002J	Service station list (N)	
	29100006A	350×250 Poly bag	
	25055018	Conversion plug (CV-K-2) (W)	

NOTE (D): Only 120V model (G): Only 230V model (W): Worldwide model (F): Only FRANCE model (N): Only U.S.A. model

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