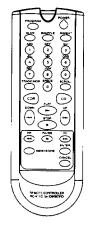
ONKYO. SERVICE MANUAL

Ref NO. 3665

052000

AUDIO CD RECORDER DX-RD511





Black model 120 V AC 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 NUMBER 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

- 1 Cover page
- 2 Service procedure
- 3 Supplied accesories
- 4 Name of each part
- 6 Display messages
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- 10 Packing view
- 11 IC Block Diagrams and Descriptions
- 12 Connection Diagram
- 13 Diagnostic software
- 14 Pcboard view
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- 18 Specifications

SERVICE PROCEDURE

Perform a reset

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

To perform a reset, please follow the procedure below.

- 1. It is confirmed for the tray of CD to close.
- 2. The mechanical power switch is OFF.
- The mechanical power switch is pushed while pushing ìYESî and ìEDIT/NOî button from the state with the power supply on.

Safety-check out

(Only U.S.A. model)

After correcting the original service problem perform the follwing safety check before releasing the set to the customer. Connect the insulating-resistance tester between the plug of power supply cord and terminal GND on the back panel. Specifications: More than 10Mohm at 500V.

PROTECTION OF EYES FROM LASER BEAM DURING SERVICING

This set employs a laser. Therefore, be sure to follow carefully the instructions below when servicing.

WARNING!!

WHEN SERVICING, DO NOT APPROACH THE LASER EXIT WITH THE EYE TOO CLOSELY. INCASE IT IS NECESSARY TO CONFIRM LASER BEAM EMMISION, BE SURE TO OBSERVE FROM A DISTANCE OF MORE THAN 30cm FROM THE SURFACE OF THE OBJECTIVE LENS ON THE OPTICAL PICK-UP BLOCK.

Laser Diode Properties

Material:

GaAS/GaALAs

Wavelength:

778~787nm

Emission Duration:

continuous

Laser output:

MAX. 23mW

PLAY 0.9mW+/-0.05mW(Ave) CD-R(REC) 4.9mW+/-0.11mW(Ave) CD-RW(REC) 5.6mW+/-0.1mW(Ave)

LASER WARNING LABEL

The label shown below are affixed.

1. Warning label

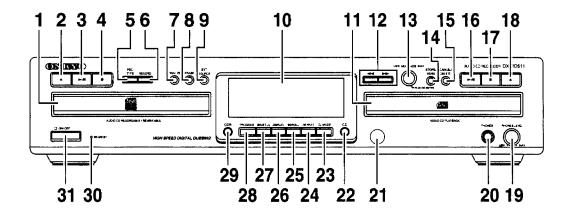
DANGER-INVISIBLE LASER RADIATION
WHEN OPEN AND INTERLOCK FAILED OR DEFEATED.
AVOID DIRECT EXPOSURE TO BEAM.

CAUTION-HAZARDOUS LASER AND
ELECTROMAGNETIC RADIATION WHEN OPEN AND
INTERLOCK DEFEATED.

ATTENTION-RAYONNEMENT LASER
ET ELECTROMAGNETIQUE DANGEREUX SI OUVERT
AVEC L'ECLENCHEMENT DE SECURITE ANNULE.



NAME OF EACH PART



Front panel of the machine

- 1 Disc tray on the recording deck
- 3 ►/II (PLAY/PAUSE) button on the recording deck
- 4 (STOP) button on the recording deck
- 5 REC TYPE selection button
- 6 RECORD button
- 7 FINALIZE button
- 8 ERASE button
- 9 EXT SOURCE button
- 10 Display
- 11 Disc tray on the playing deck
- 12 **◄◄/▶▶** button
- 13 I ► MULTI JOG ► PUSH ENTER knob
- 14 STORE/MENU button
- 15 CANCEL/DELETE button
- 16 ►/II (PLAY/PAUSE) button on the playing deck
 - 21 REPEAT 20 4 19 5 18 CD 17 8 16 · 9 15 10 14 11 13 -12 REMOTE CONTROLLER RC-411C by ONIETO

- 17 (STOP) button on the playing deck
- 19 PHONES LEVEL knob
- 20 PHONES (headphones) jack
- 21 Remote controller sensor
- 22 CD button

Pressing this button enables the playing deck (right tray).

- 23 DJ MODE button
- 24 REPEAT button
- 25 SCROLL button
- 26 DISPLAY button
- 27 SHUFFLE button
- 28 PROGRAM button
- 29 CDR button

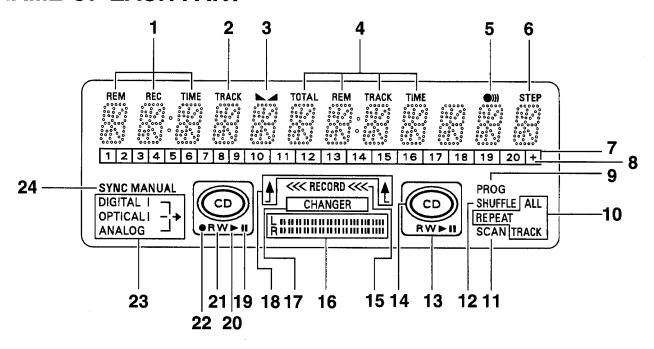
Pressing this button enables the recording deck (left tray).

- 30 STANDBY indicator
- 31 ON/OFF switch

Remote Controller

- 1 POWER button
- 2 REPEAT button
- 3 SHUFFLE button
- 4 Numeric/letter input button
- 5 SCROLL button
- 6 SPACE/0 (ZERO) button
- 7 CD button
- 8 ▶► UP button
- 9 STOP button
- 10 ►► FF(fast-forward) button
- 11 ENTER button
- 12 CANCEL button
- 13 MENU/STORE button
- 14 II PAUSE button
- 15 ◀◀ FR(fast-return) button
- 17 ► PLAY button
- 18 CDR button
- 19 TRACK INCR button
- 20 SCAN button
- 21 PROGRAM button

NAME OF EACH PART



Display

- 1 Recording/remaining time indicator
- 2 Track indicator
- 3 Balance indicator
- 4 Disc/track elapsed/remaining time indicator
- 5 Remote-control signal received indicator
- 6 Step indicator
- 7 Track indicator
- 8 +20 indicator
 - Lights up when the disc contains 21 or more tracks.
- 9 Program indicator
- 10 Repeat single/all track(s) indicator

- 11 Scan indicator
- 12 Shuffle indicator
- 13 CD player selected indicator
- 14 CD indicator
- 15 Recording indicator
- 16 Recording/playback level indicator
- 17 Changer mode indicator
- 18 DJ play mode indicator
- 19 Pause indicator
- 20 Play indicator
- 21 CD-R/CD-RW indicator
- 22 Recording indicator
- 23 Input source indicator
- (DIGITAL1/OPTICAL/ANALOG)
 Recording indicator
- 24 Recording indicator (SYNC/MANUAL)



DISPLAY MESSAGE

Messages, as listed and explained here, may appear on the display for your guidance.

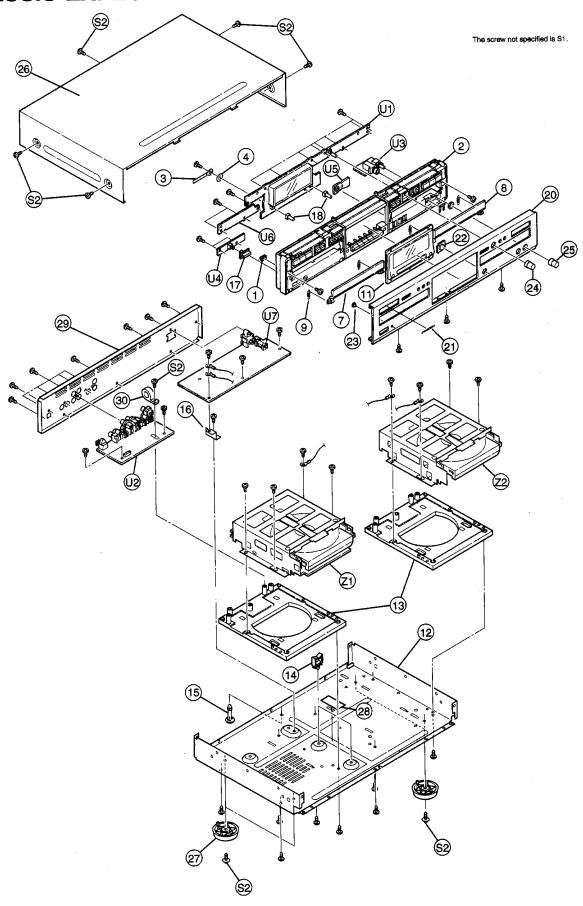
General		
READING	ALL	The unit is reading the information stored on the disc. The disc becomes playable as soon as the time display appears.
OPEN	-	The unit is opening the disc tray.
CLOSE	•	The unit is closing the disc tray.
NO DISC	-	No disc is loaded or the loaded disc is unreadable. The disc may be set upside down.
PROG FULL	ALL	The unit is unable to store tracks any more. The number of programmed tracks has reached 99.
INSERT DISC	•	No disc is loaded or the loaded disc is unplayable. See "Playing does not start" or "Recording does not start" in the Troubleshooting Guide section.
WRONG DISC →USE AUDIO CD	-	The loaded disc is not for audio use. It may be a CD-ROM for use with personal computers.
UNFINALIZED	R/W	The unit has finished unfinalizing the finalized CD-RW.
MEMORY xx%	R/W	This indicates what percentage of the CD-TEXT memory is used by the unfinalized disc. See also "MEMORY FULL."
NOT FINALIZED → SCANNING	W	A CD-RW that has not been finalized is placed in the CD tray.
		V
Recording		
WAIT	R/W	The unit is preparing for the next operation, such as for starting or stopping the recording.
UPDATE	R/W	The unit is updating the information stored on the disc after recording. This also appears during recording if writing to the disc is discontinued due to a disc failure such as a scratch. The recording stormagnetically

		1
Recording		
WAIT	R/W	The unit is preparing for the next operation, such as for starting or stopping the recording.
UPDATE	R/W	The unit is updating the information stored on the disc after recording. This also appears during recording if writing to the disc is discontinued due to a disc failure such as a scratch. The recording stop immediately.
DISC FULL	R/W	The unit is unable to store tracks on disc any more.
DIGITAL 1	-	Coaxial external digital input (CDR DIGITAL IN)is selected.
OPTICAL	-	Optical external digital input (CDR OPTICAL DIGITAL IN) is selected.
ANALOG	-	External analog input (CDR ANALOG IN) is selected.
COPY PROTECT	-	The unit is unable to record the digital input signals from the external source.
NOTFINALIZED	R/W	The disc in the open disc tray has not yet been finalized (CD recorder). This means that the disc is unplayable on other CD players.
RECORD FAST	R/W	The fast recording mode is selected, where the recording time is 1/2 of the normal recording mode but no sound is heard.
REC LISTEN	R/W	The normal recording mode is selected. The sound will be heard during recording.
MAKE CD	R/W	The automatic finalization function is selected. The disc will be finalized automatically when the recording is finished.
REC EXT DISC	R/W	Synchro recording from an external source is selected.
REC EXT MAN	R/W	Manual recording from an external source is selected.
xx dB	R/W	The attenuation level is shown in all recording modes whenever you rotate the MULTI JOG knob to set the recording level.
DOES NOT FIT	R/W	The total playback time of the CD does not fit the total recording time of the CD-R or CD-RW.
ANALOG REC	R/W	The unit automatically selects the analog recording mode, if the disc contains audio signals of which digital copying is prohibited.
ERASE TRACK	W	The track is to be erased.
ERASE DISC	W	The whole contents of the disc are to be erased.
FINALIZE	R/W	The CD-R or CD-RW is to be finalized so that it is readable on ordinary CD players.
FINALIZED	R/W	The CD-R or CD-RW you attempted to finalize need not be finalized because it has already been finalized.
CHECK INPUT	R/W	An attempt was made to record through one of the external digital input channels, but no signal has been detected. Check that the cables are connected firmly and that the external digital source is turned on and outputting digital signals.
xx xx ERASE	W	When a track is being erased, the time to the completion of erasure is counted down.
xx xx FINAL	R/W	When a disc is being finalized, the time to the completion of finalization is counted down.
PRESS RECORD	R/W	Press the RECORD button when this message is displayed to start recording or erasing.
START SOURCE	R/W	During synchro recording from an external source, start playback on it to start recording in response to the input signals.
FINALIZED CD	CD/R	An attempt was made to record on a finalized CD-R or ordinary CD.
UNFINALIZE/ PRESS ENTER	W	An attempt was made to record on a finalized CD-RW. Press the MULTI JOG knob to start unfinalizing the CD-RW.

Recording (contin	ued)	
PROF SOURCE	R/W	"REC EXT DISC" or "REC EXT MAN" is selected, but the unit is connected to professional audio equipment. The serial copy management system (SCMS) prohibits recording from professional equipment with any consumer-product recorder including this unit.
TEXT PROTECT	R/W	The CD text data stored on discs cannot be copied.
Playback		
CHANGER MODE		The change mode is released
DJ MODE		The changer mode is selected.
PROGRAM	ALL	DJ mode play is selected. Program play is selected.
ALBUM TITLE	ALL	If the disc contains album title information in the CD-TEXT format, this message appears when the SCROLL button is pressed.
TRACK TITLE	ALL	If the disc contains track title information in the CD-TEXT format, this message appears when the SCROLL button is pressed.
ALBUM ARTIST	ALL	If the disc contains album artist name information in the CD-TEXT format, this message appears when the SCROLL button is pressed.
TRACK ARTIST	ALL	If the disc contains track artist information in the CD-TEXT format, this message appears when the SCROLL button is pressed.
Others		
NO AUDIO TR	CD	Some tracks include other than audio data. These tracks cannot be played back.
FINALIZE CD	R	Writing to a CD-R is impossible, if it has been ejected and re-inserted 96 times. Finalize the CD-R before attempting to write on it.
INITIALIZING	R/W	The unit is measuring the laser output level of its optical pickup for writing to the disc. Do not turn of the power until this message disappears because the unit is writing to or reading from the disc.
DISC RECOVER	R/W	This message appears immediately after power on if the unit has been turned off during recording or initialization. The tracks that recorded before power shutoff can be restored. The disc may be finalized automatically when recovered. (See page 29.)
OPC ERROR	R/W	Any disc causing this error message cannot be used because the laser output level of the optical pickup cannot be optimized for writing.
RECORD ERROR	R/W	This appears in the text edit mode if writing to the disc is discontinued due to a disc failure such as a scratch. The text-edit display will be restored, although the recording stops immediately.
DISC ERROR	R/W	Writing to or reading from the disc is not possible for some reason. This error is generally caused by dor scratches on discs.
MEMORY FULL/ FINALIZE CD	R/W	You cannot enter additional characters because the CD-TEXT memory has become full. Finalize the disc or erase the entered characters before attempting to enter additional characters.
PRESS DJMODE	-	The attempted operation is unavailable in the changer mode. Please select the DJ mode.
FIRST TIME	R/W	The memory retains some data when "MEMORY VIEW" is selected.
Menu Message		
NO TRACKS	R/W	An attempt was made to edit text information on a disc that contains no recorded tracks.
TEXT EDIT	R/W	The TEXT EDIT mode is set.
CD ARTIST	R/W	The album artist name is to be modified or erased.
CD TITLE	R/W	The album title is to be modified or erased.
TR n ARTIST	R/W	The artist name for the track number indicated as "n" is to be modified or erased.
TR n TITLE	R/W	The title for the track number indicated as "n" is to be modified or erased.
TEXT ERASE	R/W	The TEXT ERASE mode is set.
ALL TEXT	R/W	The whole text is displayed.
ERASE OK	R/W	You can press the MULTI JOG knob to erase the entered character.
ERASE ALL OK	R/W	You can press the MULTI JOG knob to erase the whole text.
ERASE MEMORY	R/W	You can gress the text data (set in memory) on the disc that has not been finalized yet.
MEMORY VIEW	R/W	You can view the text data (set in memory) on the disc that has not been finalized yet.
MEMORY EMPTY	R/W	No text data is set (in memory).
AUTO TRACK	R/W	The AUTO TRACK mode is selected.
ON	R/W	The AUTO TRACK mode is set to "ON."
OFF	R/W	The AUTO TRACK mode is set to "OFF."
SET BALANCE	R/W	The recording balance can be adjusted by rotating the MULTI JOG knob.
NO TEXT	ALL	The disc contains no CD text data.
		and door committee to the data.



CHASSIS-EXPLODED VIEW



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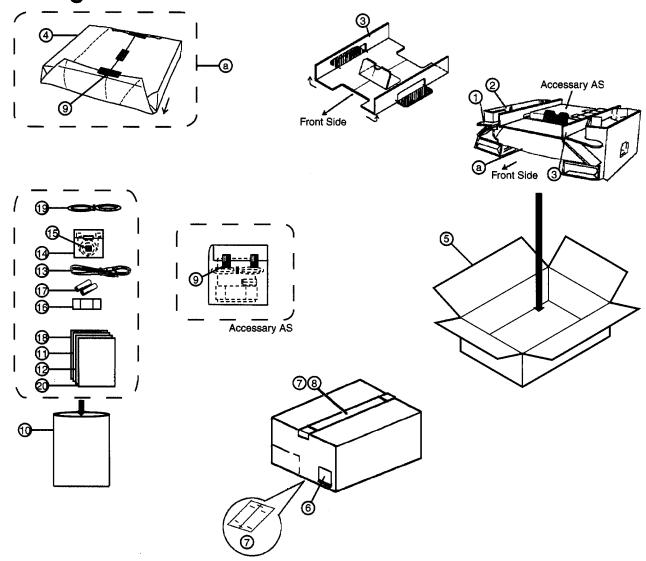
CHASSIS-EXPLODED PARTS LIST

REF. NO.	PART NO.	DESCRIPTION
U1	1H428517-1A	NADIS-6717-1A, Display circuit peboard AS
U2	1H428518-1A	NAAF-6718-1A, Audio terminals peboard AS
U3	1H428519-1A	NAAF-6719-1A, Headphones terminal pcboard AS
U4	1H428520-1A	NASW-6720-1A, Power switch circuit peboard AS
U5	1H428521-1A	NAETC-6721-1A, Remote sensor circuit peboard AS
U6	1H428522-1A	NAETC-6722-1A, CDR control button pcboard AS
U7	24150008 <u>A</u>	PSU-CDR775-1, Power supply circuit pcboard AS
1	28141412	Cushion
2	27111138A	Front Bracket
3	27255004	CS-1U, Clip
4	27270393	(MARU), Spacer
5	27190608	UA-0, Holder
7	28148422A	Door (Left)
8	28148423A	Door (Right)
9	27180576	Spring (Door)
10	28133390	B Plate
11	28191866A	Clear Plate (FL)
12	27100379	Chassis
13	27191087B	Holder (M)
14	27300243Y	WS-2W, WS Clamp
15	27190772	KGLS-22RF, Holder
16	27141750	Retainer (Pcboard)
17	28325696	Knob (Power)
18	28325699	Knob (CD)
19	29362553	Label (Fuse Symbol)
20	27212144A	Front Panel
21	28135244Y	BADGE, Badge NOTE: THE COI
22	28191869	Clear Plate (IR)
23	28198864 or	Facet or TRIC SH
	28198895	Facet (1P) REPLAC
24	28325702	Knob (AMCS) FIED.
25	28325452Y	Knob (MIC)
26	28184764	Cover
27	27175311A	Leg AS
28	29362285	Label
29	27122659A	Rear Panel
30	230910	ESD-R-25DB, Core
F1	2046074012	NCFC6-074012, Flat Flexible Cable
F2	2042141012	NCFC2-141012, Flat Flexible Cable
F3	2042223012	NCFC2-223012, Flat Flexible Cable
S 1	838130088	3TTB+8B, Screw
S2	831430088	3TTW+8B(BC), Screw
Z 1	24800044	VAUR775, CD-Recorder Mechanism AS
Z 2	24800045	VAL1250, CD-Player Mechanism AS

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

DX-RD511

Packing View

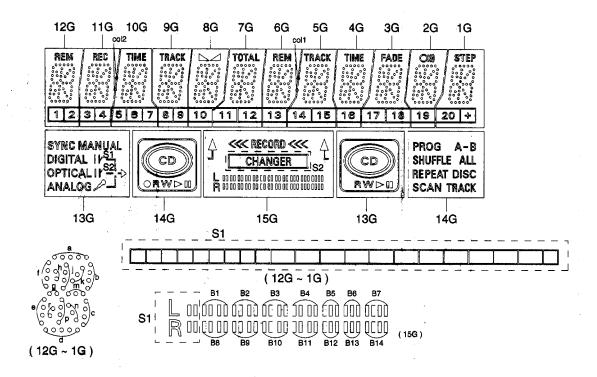


REF. NO.	PART NO.	DESCRIPTION	REF. NO.	PART NO.	DESCRIPTION
Packing			Accessary	AS	
1	29091894	Pad	10	29100097-1A	350*250, Poly Bag
2	29091895	Pad (S)	11	29365083	Warranty Card
3	29095872A	Sheet (ACCE)	12	29095866	Sheet (ONKYO)
4	29095847	Sheet	13	2010098A or	Pin-Cord AS or
5	29053513	Carton		2010244	Pin-Cord AS
6	29362523	Label UPC AS	14	2050039	NCS-1P104, Cord AS
7	282321	Staple	15	29361573	Label (PE-LD)
8	29110141	PP Tape	16	24140411	RC-411C, Remote Control Unit
9	29110149	Tape (CEROHAN)	17	3010124	UM-4, Battery
			18	29342803A	Instruction Manual, E
			19	253291	AS-UC-6, AC Cord
			20	29355318	Instruction Sheet, E

IC Block diagrams and Description

Q603 15-BT-69GNK:FL Tube

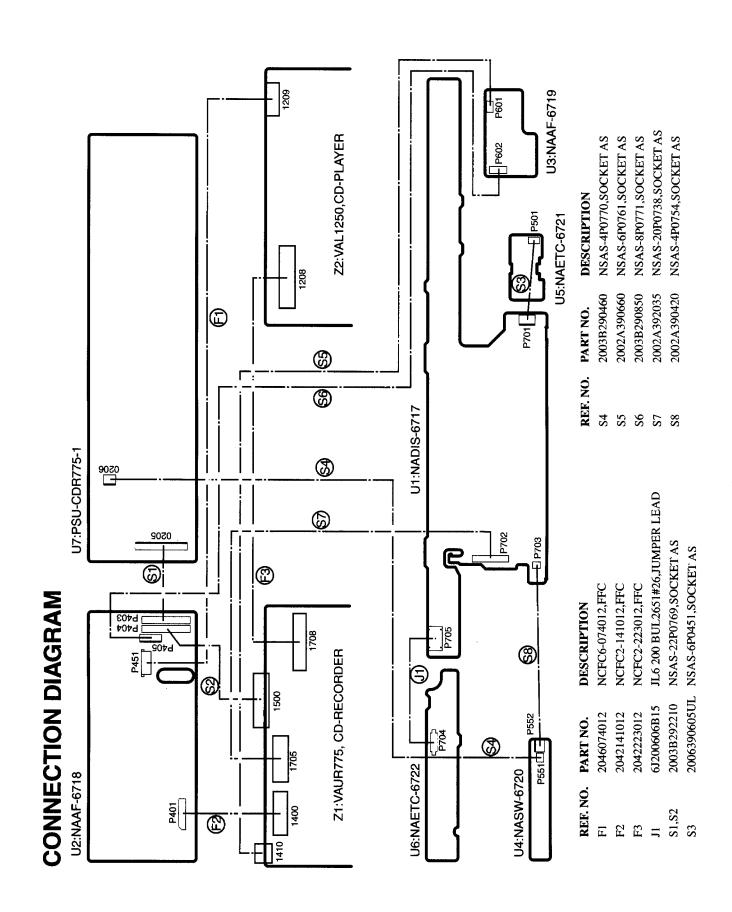
GRID ASSIGNMENT



ANODE CONNECTION

	15G	14G	13G	12G	116	10G	9G	8G	76	6G	5G	46	3G	2G	1 G
PI	814	_	DIGITAL I	а	a	a	a.	а	е.	a	a	a	a	a	a
P2	B13.	TRACK	S1	j,p	j., p	J.p	j,p	j,p	j,p	J.p	م , ز	j,p	J.p	΄, ρ	j,p
Р3	B12	SCAN	OPTICALI	h	h	, h	h	h	h	h	h	h	h	h	h
P4	B11	DISC	\$2	k	k	k	k	k	k	k	k	k	k	k	k
P5	B10	REPEAT	ANALOG	b	b	b	ь	b	b	b	b	b	b	b	b
P6	B9	ALL	Sync	f	f	, f	f	f	f	Ť	ſ	f	f	f	· f
P7	B8	SHUFFLE	MANUAL	m	m	т	m	m	m	m	m	m	m	m	m
P8	87	- 8		g	g	g	g	g	g :	g	g	g	g	· g	9
P9	B 6			С	С	С	С	С	С	С	C	С	С	С	С
P10	85	A		е	e	e	е	e	e	e	æ	e	e	е	e :
P11	B4	PROG	➾	r	r	. r	r.	r	r	r	r	r	r	r	r
P12	83	0		n	'n	n	n	n ·	n	n	n	n	n	n	n
P13	B2	\triangle		d	d	d	d	d .	d	d	ď	ď	d	d	d
P14	B1	00		REM	REC	TIME	TRACK		TOTAL	REM	TRACK	TIME	FADE		STEP
P15	Å (₺)	0	9	1	3	5	8	10	11	13	14	16	17	19	20
P16	S 2			2	4	6	9		12		15	-	18	-	4
P17	66K MBC000 -64K		0			7		-	-						- ;
P18	Å (≴)	R	R			_			-		-		_	-	- 1
P19		W	W		-		-	_	-	co	Q 1	***		-	
P20	-			-	co	02	-			-	-		-	-	
P21	S1		<u>.</u>						S	1					

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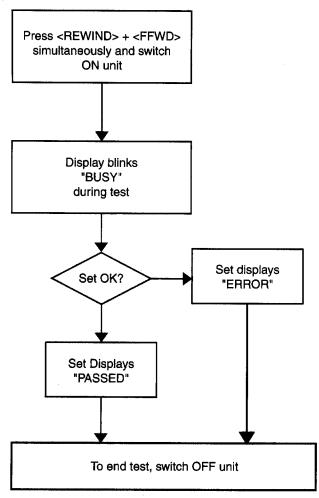


DIAGNOSTIC SOFTWARES

1. Dearler mode

The purpose of the player at exhibitions, showrooms etc.. This mode disables the open/close function of the player. The dealer mode can be switched on and off pressing keys [OPEN/CLOSE] and [STOP] of the CDR player simultaneously while switching on the unit. The delaer mode is stored in the flash memory and can only be changed by executing the above actions.

2. Diagnostics



2-1. Description

The intention of the dealer diagnostics is to give an indication of the CDR player status. An inexperienced, even nontechnical dealer will/can perform the test. Tests are executed automatically without need for external tools or disassembly of the unit. This test checks the CDR main board using the same tests as the electrical service diagnostics program. Only the result of test, iPASSEDî or iERRORî, will be shown on the display. Pressing keys [F FWD] and [REWIND] simultaneously while switching on the unit, starts the test. Switching off the unit ends the

Display circuit p	Display circuit pc board AS (NADIS-6717-1A)	.6717-1A)	CIRCUIT NO.	PART NO.	DESCRIPTION
CIRCUIT NO.	PART NO.	DESCRIPTION		Switch, Terminal	
	Semi Conductor		P402	25045303	NPJ-4PDBL162, Pin Jack (CDR Analog IN/OUT)
D701	224490330R2	UDZ3.3B, Zener Diode	P403	2003B292210	NSAS-22P0769, Socket AS
Q701	22241413R3	TMP87CII74F-6851, IC	P404	2003B292210	NSAS-22P0769, Socket AS
Q702	212203	15-BT-69GNK, Fluorescent Tube	P405	25055134	NPLG-4P118, Plug
Q702A	27191088	Holder (Fluorescent Tube)	P451	25052203	NSCT-7P2100, Socket
Q703~Q705	2213143R2 or	2SC2712-0, Transistor or	P452	25045371	NPJ-2PDWR214, Pin Jack (CD Analog OUT)
	2213144R2	2SC2712-Y, Transistor	Headphone termi	nal circuit peboard	Headphone terminal circuit pcboard AS (NAAF-6719-1A)
	Trans Coil		CIRCUIT NO.	PART NO.	DESCRIPTION
X701	3010255R2	8.00MHz, Cera Lock		Semi Conductor	
	Switch, Terminal		Q601	2215940R2	FMG12, Transistor
P701	25055367	NPLG-3P350, Plug	Q603	22241414R2	NJM4556AM, IC
P702	2002A392055	NSAS-20P0749, Socket AS		Trans Coil	
P703	2002A390420	NSAS-4P0754, Socket AS	L601~L603	230921R2	BLM21B222SPT, Choke Coil
P704	25051090	NSCT-6P877, Wire Holder		Capacitor	
P704A	6J200606B15	JI.6 200 BUL2651#26, Jumper Lead	C601, C602	355742209T	22mF/16V, Electrolytic Capacitor
P705	25055627	NPLG-6P589, Wire TransistorAP	C603, C604	355744709T	47mF/16V, Electrolytic Capacitor
S701~S708,	25035699T	NPS-111-S662, Push Switch		Resistor	
S710~S715,			R603	5112467	20KW, A Type, Variable Resistor (Headphone)
S717~S723				Switch, Terminal	•
S709, S716	25035707	NPS-111-S670, Push Switch (CDR, CD Select)	P601	2002A390660	NSAS-6P0761, Socket AS
S724	25065589	EC12E24C25, Rotary Encoder (JOG SW)	P602	2003B290850	NSAS-8P0771, Socket AS
Audio terminals	Audio terminals circuit peboard AS (NAAF-6718-1A)	NAAF-6718-1A)	P603	25045255	YKB26-5009, Jack (Headphone)
CIRCUIT NO.	PART NO.	DESCRIPTION	Power switch circ	Power switch circuit pcboard AS (NASW-6720-1A)	SW-6720-1A)
	Semi Conductor		CIRCUIT NO.	PART NO.	DESCRIPTION
D301	223266R2	1SS226, Diode		Semi Conductor	
Q301, Q302,	222740046R2TO	74HCU04(TC74HCU04F), IC	D551	225290T	SEL4110R, Led (Stanby)
Q304				Switch, Terminal	
Q303	24120037	TORX178B, Fiber Optic Receiving Module	P551	2003B290460	NSAS-4P0770, Socket AS
		(CDR Optical IN)	P552	25055146	NPLG-2P130, Plug
Q401,Q402,	2215940R2	FMG12, Transistor	S551	25035523	NPS-122-L485, Push Switch (Power)
Q451			Remote sensor cir	Remote sensor circuit pcboard AS (NAETC-6721-1A)	AETC-6721-1A)
	Trans Coil		CIRCUIT NO.	PART NO.	DESCRIPTION
L301~L304	230921R2	BLM21B222SPT, Choke Coil		Semi Conductor	
	Capacitor		Q501	241334	RPM6936-V4, Remote Sensor
C302, C308,	393321017T	100mF/6.3V, Electrolytic Capacitor, VX Type		Trans Coil	
C313, C317			L501	230921R2	BLM21B222SPT, Choke Coil
	Switch, Terminal			Capacitor	
P301	25045600	NPJ-2PDO408, Pin Jack (CDR Coaxial IN/OUT)	C501	355744709T	47mE/16V, Electrolytic Capacitor
P302	25045548	NPJ-1PDOR369, Pin Jack (CD Coaxial OUT)		Switch, Terminal	
P401	25051938	NSCT-14P1725, Socket	P501	2006390605UL	NSAS-6P0451, Socket AS

