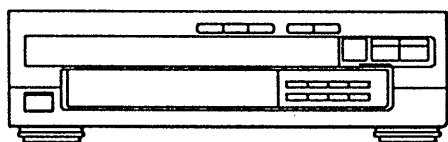


aiwa



DX - Z9100M



COMPACT DISC PLAYER

• BASIC CD MECHANISM : KSM - 2101ABM

• TYPE. Y

DX - Z9100M is the Compact Disc Player
which is connected to below systems.

• Z - D3100M • Z - D7100M • Z - D8100M • Z - D9100M

- Only the modifications are stated in this manual.
Use this manual with DX - Z950M Service Manual
(S/M Code No.0106).

MANUAL
SERVICE

PROTECTION OF EYES FROM LASER BEAM DURING SERVICING

This set employs 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. IN CASE IT IS NECESSARY TO CONFIRM LASER BEAM EMISSION, BE SURE TO OBSERVE FROM A DISTANCE OF MORE THAN 30cm FROM THE SURFACE OF THE OBJECTIVE LENS ON THE OPTICAL PICK-UP BLOCK.



- Caution: Invisible laser radiation when open and interlocks defeated avoid exposure to beam.
- Advarsel: Usynlig laserstråling ved åbning, når sikkerhedsafbrydere er ude af funktion. Undgå udsættelse for stråling.

VAROITUS!

Laiteen Käyttäminen muulla kuin tässä käyttöohjeessa mainitulla tavalla saattaa altistaa käyt-täjän turvallisuusluokan 1 ylittävälle näkymättömälle lasersäteilylle.

VARNING!

Om apparaten används på annat sätt än vad som specificeras i denna bruksanvisning, kan användaren utsättas för osynlig laserstrålning, som överskrider gränsen för laserklass 1.

CAUTION

Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

ATTENTION

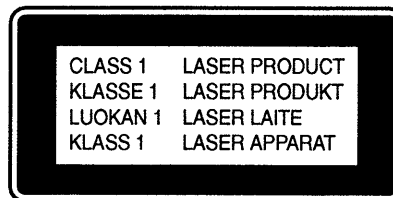
L'utilisation de commandes, réglages ou procédures autres que ceux spécifiés peut entraîner une dangereuse exposition aux radiations.

ADVARSEL!

Usynlig laserstråling ved åbning, når sikkerhedsafbrydere er ude af funktion. Undgå udsættelse for stråling.

This Compact Disc player is classified as a CLASS 1 LASER product.

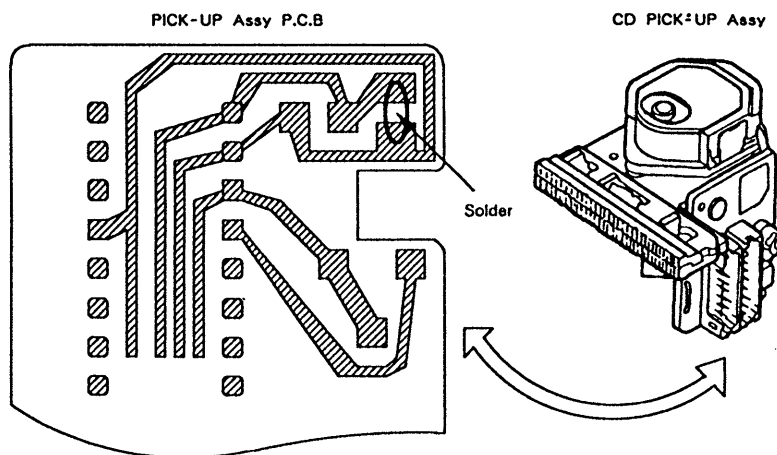
The CLASS 1 LASER PRODUCT label is located on the rear exterior.



Precaution to replace Optical block (KSS - 210A)

Body or clothes electrostatic potential could ruin laser diode in the optical block. Be sure to ground body and workbench, and use care the clothes do not touch the diode.

- 1) After the connection, remove the solder shown in the right figure.



SPECIFICATIONS

Disc	Compact disc
Scanning method	Non-contact optical scanner (semiconductor laser application)
Laser	Semiconductor laser ($\lambda = 750-800 \text{ nm}$)
Rotation speed	Approx. 500 rpm - 200 rpm (CLV)
Error correction	Cross Interleave, Reed Solomon code
No. of channels	2 channels
D-A conversion	1-bit DAC

Wow/Flutter	Unmeasurable
Signal to noise ratio	92 dB (1 kHz, 0 dB)
Harmonic distortion	0.01% (1 kHz, 0 dB)
Low pass filter	8 times digital filter + active filter
Power consumption	15 W
Dimensions (W×H×D)	360 × 98.5 × 308 mm (14 1/4 × 4 × 12 1/4 in)
Weight	3.8 kg (8.4 lb)

- Design and specifications are subject to change without notice.

■ ACCESSORIES/PACKAGE LIST

DESCRIPTIONで判断できない物は“REFERENCE NAME LIST”を参照してください。
If can't understand for Description please kindly refer to “REFERENCE NAME LIST”.

REF. NO	PART NO.	カンリ NO.	DESCRIPTION
1	84-VM1-901-010	IB, Y	

ALTERNATION LIST

ELECTRICAL MAIN PARTS LIST

DESCRIPTIONで判断できない物は“REFERENCE NAME LIST”を参照してください。
If can't understand for Description please kindly refer to “REFERENCE NAME LIST”.

REF. NO	PART NO.	カンリ NO.	DESCRIPTION	REF. NO	PART NO.	カンリ NO.	DESCRIPTION
IC				SW714	87-036-215-089	SW, TACT	EVQ21404M
	82-VM1-601-110	IC, CXP50120-159Q		SW715	87-036-215-089	SW, TACT	EVQ21404M
MAIN C. B				SW716	87-036-215-089	SW, TACT	EVQ21404M
C527	87-018-209-019	CAP, TC-U 0. 1-50F		SW717	87-036-215-089	SW, TACT	EVQ21404M
TACT-1 C. B				SW718	87-036-215-089	SW, TACT	EVQ21404M
SW701	87-036-215-089	SW, TACT	EVQ21404M	SW719	87-036-215-089	SW, TACT	EVQ21404M
SW702	87-036-215-089	SW, TACT	EVQ21404M	TACT-2 C. B			
SW706	87-036-215-089	SW, TACT	EVQ21404M	SW705	87-036-215-089	SW, TACT	EVQ21404M
SW707	87-036-215-089	SW, TACT	EVQ21404M	MOTOR-2 C. B			
SW708	87-036-215-089	SW, TACT	EVQ21404M	SW101	91-572-086-110	LEAF SW	
SW709	87-036-215-089	SW, TACT	EVQ21404M				
SW710	87-036-215-089	SW, TACT	EVQ21404M				
SW711	87-036-215-089	SW, TACT	EVQ21404M				
SW712	87-036-215-089	SW, TACT	EVQ21404M				
SW713	87-036-215-089	SW, TACT	EVQ21404M				

EXPLODED VIEW – 1

MECHANICAL PARTS LIST

REF. NO	PART NO.	カンリ NO.	DESCRIPTION
1-1~1-6	09-057-206-010		CAB1, FRONT ASSY
1-5	84-VM1-001-019		CAB, FR
1-17	84-VM1-003-019		PANEL, TRAY
1-18	84-VM1-002-019		PANEL, REAR YBN<Y>
1-18	84-VM1-005-019		PANEL, REAR YJBN<YJ>
1-21	82-VM1-002-019		CAB, STEEL

This diagram illustrates the exploded view of a CD player mechanism, showing the following components and their assembly relationships:

- Top Assembly:** Includes the **CD** (21) and the **SH, CD MECH** (30) which houses the **SH, CD MECH** (3) and the **SH, CD MECH** (30).
- Motor and Drive:** The **MOTOR-1 C.B** (7) is connected to the **M302** (7) and the **M301** (7). The **M301** (7) is connected to the **SH, CD MECH** (30).
- Wiring and Controls:** The **WIRE BINDER** (L) is connected to the **M302** (7). The **WIRE BINDER** (L) is connected to the **M301** (7). The **WIRE BINDER** (L) is connected to the **M302** (7).
- Switches and Sensors:** The **OPEN SW C.B** (A) is connected to the **SH, CD MECH** (30). The **CLOSE SW C.B** (E) is connected to the **SH, CD MECH** (30). The **U/D SW C.B** (A) is connected to the **SH, CD MECH** (30). The **SNSR C.B** (G) is connected to the **SH, CD MECH** (30).
- Other Components:** The **SH, CD MECH** (30) is connected to the **SH, CD MECH** (30). The **SH, CD MECH** (30) is connected to the **SH, CD MECH** (30).

MECHANICAL PARTS LIST - 2

DESCRIPTIONで判断できない物は“REFERENCE NAME LIST”を参照してください。
If can't understand for Description please kindly refer to “REFERENCE NAME LIST”.

REF. NO	PART NO.	カンリ NO.	DESCRIPTION	REF. NO	PART NO.	カンリ NO.	DESCRIPTION
2-1	81-ZG1-243-219		CHAS. MECH NO2	2-26	81-ZG1-015-010		GEAR, TRAY CAM BLU
2-2	81-ZG1-228-11K		HLD, MAGNET	2-27	81-ZG1-233-110		BELT, TT
2-3	81-ZG1-253-310		HLD, MECH MK2	2-28	81-ZG1-236-010		PULLY, TT MO
2-4	81-ZG1-276-110		WORM GEAR, TT NO2	2-29	81-ZG1-260-010		SHAFT, WORM S
2-5	81-ZG1-230-010		G-CUSH, MECH	2-30	80-CD3-214-010		CUSH CD A
2-6	81-ZG1-231-110		SPR-C, MECH	2-A	81-653-215-010		SPECIAL SCREW VT2
2-7	81-ZG1-212-010		PULLY, LOAD MO	2-B	81-ZG1-254-010		S-SCREW, MECH HLD
2-8	81-ZG1-250-010		GEAR, TRAY RELAY MK2	2-C	81-ZG1-271-010		S-SCREW, MECH REAR
2-9	81-ZG1-019-010		GEAR, TRAY B YEL	2-D	81-ZG1-239-010		S-SCREW, TT
2-10	81-ZG1-018-010		GEAR, TRAY A YEL	2-E	87-067-945-110		VFT2+3-12(F10)
2-11	81-ZG1-017-010		GEAR, RELAY RED	2-F	87-251-071-410		U+2. 6-4
2-12	81-ZG1-014-010		PULLY, RELAY YEL	2-G	87-067-579-010		BVT2+3-8W/O SLOT
2-13	81-ZG1-240-010		SPR-P, WORM	2-H	81-ZG1-264-010		S-SCREW, CAM
2-14	87-036-326-010		MAGNET, CLAMPER 93	2-I	87-761-095-410		VFT2+3-8
2-15	81-ZG1-255-119		PLATE, MAGNET MK2	2-J	87-078-029-010		VFT2+3-13(F8)
2-16	81-ZG1-232-010		BELT, TRAY	2-K	87-078-061-010		VFT2+3-20DIA10, GLD
2-17	81-ZG1-238-110		CUSH, TRAY IN	2-L	87-721-096-419		QT2+3-10
2-18	81-ZG1-222-010		WORM WHEEL, TT				
2-19	81-ZG1-202-010		GEAR MAIN				
2-20	81-ZG1-252-010		LEVER, TT MK2				
2-21	81-ZG1-010-210		TURNTABLE NO3				
2-22	81-ZG1-020-010		PLATE, CAM BGE				
2-23	81-ZG1-262-010		SPR-E, CAM S				
2-24	81-ZG1-016-010		GEAR, MECH CAM BGE				
2-25	81-ZG1-011-310		TRAY MK2				

REFERENCE NAME LIST

ELECTRICAL SECTION

DESCRIPTION	REFERENCE NAME
ANT	ANTENNAS
C-	CHIP
C-CAP	CAP, CHIP
C-CAP TN	CAP, CHIP TANTALUM
C-COIL	COIL, CHIP
C-DI	DIODE, CHIP
C-DIODE	DIODE, CHIP
C-FET	FET, CHIP
C-FOTR	FILTER, CHIP
C-JACK	JACK, CHIP
C-LED	LED, CHIP
C-RES	RES, CHIP
C-SFR	SFR, CHIP
C-SLIDE SW	SLIDE SWITCH, CHIP
C-SW	SWITCH, CHIP
C-TR	TRANSISTOR, CHIP
C-VR	VOLUME, CHIP
C-ZENER	ZENER, CHIP
CAP, CER	CAP, CERA-SOL
CAP, E	CAP, ELECT
CAP, M/F	CAP, FILM
CAP, TC	CAP, CERA-SOL
CAP, TC-U	CAP, CERA-SOL SS
CAP, TN	CAP, TANTALUM
CERA FIL	FILTER, CERAMIC
CF	FILTER, CERAMIC
DL	DELAY LINE
E/CAP	CAP, ELECT
FILT	FILTER
FLTR	FILTER
FUSE RES	RES, FUSE
MOT	MOTOR
P-DIODE	PHOTO DIODE
P-SNSR	PHOTO SENSER
P-TR	PHOTO TRANSISTOR
POLY VARI	VARIABLE CAPACITOR
PPCAP	CAP, PP
PT	POWER TRANSFORMER
PTR, RES	PTR, MELF
RC	REMOTE CONTROLLER
RES, NF	RES, NON-FLAMMABLE
RESO	RESONATOR
SHLD	SHIELD
SOL	SOLENOID
SPKR	SPEAKER
SW, LVR	SWITCH, LEVER
SW, RTRY	SWITCH, ROTARY
SW, SL	SWITCH, SLIDE
TC CAP	CAP, CERA-SOL
THMS	THERMISTOR
TR	TRANSISTOR
TRIMMER	CAP, TRIMMER
TUN-CAP	VARIABLE CAPACITOR
VIB, CER	RESONATOR, CERAMIC
VIB, XTAL	RESONATOR, CRYSTAL
VR	VOLUME
ZENER	DIODE, ZENER
サージサプレッサ モラコン	SERGESUPPRESSOR CAP, CERA

MECHANICAL SECTION

DESCRIPTION	REFERENCE NAME
ADHESHIVE	SHEET ADHESHIVE
AZ	AZIMUTH
BAR-ANT	BAR-ANTENNA
BAT	BATTERY
BATT	BATTERY
BRG	BEARING
BTN	BUTTON
CAB	CABINET
CASS	CASSETTE
CHAS	CHASSIS
CLR	COLLAR
CONTR	CONTROL
CRSR	CURSOR
CU	CUSHION
CUSH	CUSHION
DIR	DIRECTION
DUBB	DUBBING
FL	FRONT LOADING
FLY-WHL	FLYWHEEL
FR	FRONT
FUN	FUNCTION
G-CU	G-CUSHION
HDL	HANDOL
HIMERON	CLOTH
HINGE, BAT	HINGE, BATTERY
HLDR	HOLDER
HT-SINK	HEAT SINK
IB	INSTRUCTION BOOKLET
IDLE	IDLER
IND, L-R	INDICATOR, L-R
KEY, CONT	KEY, CONTROL
KEY, PRGM	KEY, PROGRAM
KNOB, SL	KNOB, SLIDE
LBL	LABEL
LID, BATT	LID, BATTERY
LID, CASS	LID, CASSETTE
LVR	LEVER
P-SPR	P-SPRING
PANEL, CONT	PANEL, CONTORL
PANEL, FR	PANEL, FRONT
PRGM	PROGRAM
PULLY, LOAD MO	PULLY, LOADING MOTOR
RBN	RIBBON
S-	SPECIAL
SEG	SEGMENT
SH	SHEET
SHLD-SH	SHIELD-SHEET
SL	SLIDE
SP	SPRING
SP-SCREW	SPECIAL-SCREW
SPACER, BAT	SPACER, BATTERY
SPR	SPRING
SPR-P	P-SPRING
SPR-PC-PUSH	P-SPRING, C-PUSH
T-SP	T-SPRING
TERM	TERMINAL
TRIG	TRIGGER
TUN	TUNING
VOL	VOLUME
W	WASHER
WHL	WHEEL
WORM-WHL	WORM-WHEEL
ジグアーム	ARM, SHAFT
ジグガイド	GUIDE, SHAFT
ストラップ	STRAP
トクナベ	S-SCRW
ヒンジ	HINGE
ヒンジビス	S-SCRW
ビススレート	SCRW, SERRART

サービス技術ニュース	
番号	連絡内容
G - -	
G - -	
G - -	

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