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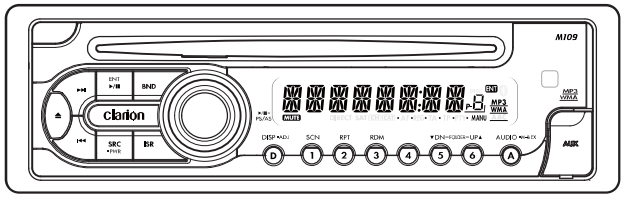
Published by Service Dept.
298-6656-00 FEB. 2009P
Printed in P.R.C.

Service Manual



CD/MP3/WMA Receiver

Model ***M109***

(PE-3179B-A)

LF

This product is a lead free model.
Lead free solder is used in PWB stamped LF mark.
Please keep the following conditions when you repair.

1. Use lead free solder.
   * Koki's lead free solder S3X-55M 0.6mm (CLARION Parts No.642-0231-01)
   * Koki's lead free solder S3X-55M 1.0mm (CLARION Parts No.642-0231-02)
2. Use a nitrogen solder system.
3. Do not use "General solder" and "Lead free solder" together.

REISSUE NOTIFICATION/ REPLACEMENT REQUST ORIGINAL SERVICE MANUAL

This additional service manual is designed to be used together with Model CZ109.

Original model	Manual No.
CZ109 (PE-3159B-A)	298-6225-00

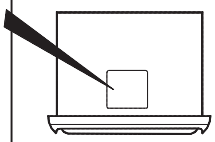
*This manual has described only the difference point with the original service manual.

NOTE

* We cannot supply PWB with component parts in principle. When a circuit on PWB has failure, please repair it by component parts base. Parts which are not mentioned in service manual are not supplied.
* Specifications and design are subject to change without notice for further improvement.
* Use only compact discs bearing the COMPACT disc DIGITAL AUDIO or COMPACT disc DIGITAL AUDIO TEXT mark. Some CDs recorded in CD-R/CD-RW mode may not be usable.
* Windows Media™, and the Windows® logo are trademarks, or registered trademarks of Microsoft Corporation in the United States and/or other countries.
* WMA is the abbreviation of Windows Media Audio, an audio file format developed by Microsoft Corporation.
* This product includes technology owned by Microsoft Corporation and cannot be used or distributed without a license from MSLGP.

CAUTION

Use of controls, adjustments, or performance of procedures other than those specified herein, may result in hazardous radiation exposure.
The compact disc player and mini disc player should not be adjusted or repaired by anyone except properly qualified service personnel.



Bottom view of M109

Setting the reception area

* All station preset momories are lost when the reception area is changed.

1. Press the [BND] button and select the desired radio band(FM or AM).

U.S. standard(initial setting for US model)

2. While pressing the [AUDIO] button,press and hold the number "1" of the [DIRECT] buttons for 2 seconds or longer.

Other countries(new setting)

3. While pressing the [AUDIO] button,press and hold the number "2" of the [DIRECT] buttons for 2 seconds or longer.

Europe standard(initial setting for Europe model)

4. While pressing the [AUDIO] button,press and hold the number "3" of the [DIRECT] buttons for 2 seconds or longer.

		U.S. standard	Other countries	Europe standard
AM	Frequency spacing	10 kHz	9 kHz	9 kHz
	Frequency range	530 to 1,710 kHz	531 to 1,629 kHz	531 to 1,602 kHz
FM	Frequency spacing	200 kHz	50 kHz	50 kHz
	Frequency range	87.9 to 107.9 MHz	87.0 to 108.0 MHz	87.5 to 108.0 MHz

DIFFERENCE FROM ORIGINAL MODEL

1.SPECIFICATIONS

2.COMPONENTS

3.EXPLODE VIEW / PARTS LIST

4.ELECTRICAL PARTS LIST

5.CIRCUIT DIAGRAM

SPECIFICATIONS

FM tuner section

Frequency range:

USA:	87.9MHz to 107.9MHz
Europe:	87.5MHz to 108.0MHz
Australia:	87.0MHz to 108.0MHz

AM tuner section

Frequency range:

USA:	530kHz to 1710kHz
Europe:	531kHz to 1620kHz
Australia:	530kHz to 1629kHz

COMPONENTS

Refer to page 1 of the original manual. The following parts were Added.

3. Mounting bracket	300-4976-00	1
7-3. Screw(M5x8)	716-0496-51	1
10.Stopper	335-4899-20	1
11.DCP Case	335-5734-08	1
12.AUX CAP	335-8613-00	1

Refer to page 1 of the original manual. The following part was changed.

5. Escutcheon(OUT)	370-6451-01	1

Refer to page 1 of the original manual. The following parts were deleted.

8. Remote control unit (PE-3159B-A)	RCB-176-200	1
9. Battery (PE-3159B-A)	———	1

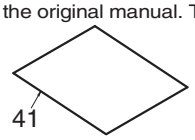
EXPLODED VIEW / PARTS LIST

Main section

Refer to page 6 of the original manual. The following parts were changed.

NO.	PART NO.	DESCRIPTION	Q'TY
19	716-0872-51	SCREW(M1.7x6)	1
24	370-6394-01	INNER-ES	1
36	276-0567-00	SETPLATE	1

Refer to page 5 of the original manual. The following part was added.



NO.	PART NO.	DESCRIPTION	Q'TY
41	335-8678-00	SET CVR	1

DCP section

Refer to page 5 of the original manual. The following parts were changed.

NO.	PART NO.	DESCRIPTION	Q'TY
1	DCY-637-600	DCP ASSY	1
1-1	373-1182-02	DIAL-CVR	1
1-3	382-9093-01	BUTTON(SRC)	1
1-11	370-6395-02	ESCUTSHEON	1
1-12	382-9090-01	BUTTON(4/5/6/A)	1
1-14	382-9094-01	BUTTON(RELEASE)	1
1-16	335-8550-02	BAR ILLUMI	1
1-17	335-8551-01	REAR CVR	1
1-29	347-8664-00	FILM	1
1-31	379-1430-40	INDICATOR(LCD)	1
1-46	075-9021-51	JACK	1

ELECTRICAL PARTS LIST

MAIN PWB(B1) section

Refer to page 7 of the original manual.
The following parts were changed.

REF No.	PART No.	DESCRIPTION
C506	043-6200-90	10uF
IC501	052-1958-00	LC8783C8PA-59H7
Q505	125-0021-91	DTA114EUA
Q516	125-0021-91	DTA114EUA

Switch PWB(B2) section

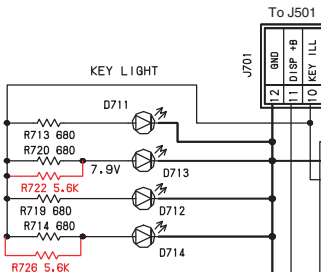
Refer to page 8 of the original manual.
The following parts were changed.

REF No.	PART No.	DESCRIPTION
D711	001-7114-91	DIODE
D712	001-7114-91	DIODE
D713	001-7114-91	DIODE
D714	001-7114-91	DIODE
R713	119-1021-15	1/10W 1K ohm
R719	119-1021-15	1/10W 1K ohm
PWB	039-3439-00	PWB(WITHOUT COMPONENT)

Refer to page 8 of the original manual.
The following parts were deleted.

REF No.	PART No.	DESCRIPTION
R722	119-5621-15	1/10W 5.6k ohm
R726	119-5621-15	1/10W 5.6k ohm

CIRCUIT DIAGRAM

Switch PWB(B2) section

Refer to page 12 of the original manual.
The following parts were deleted.