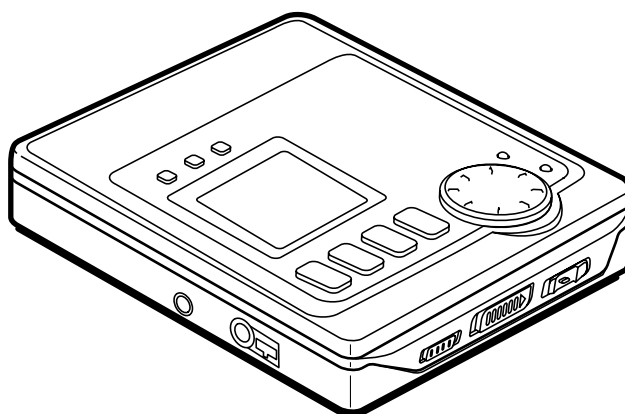




SERVICE MANUAL

MINIDISC RECORDER

BASIC MD MECHANISM : ZZG-A R1

- This Service Manual contains information about the difference between AM-F80 (AHK) and AM-F80 (AHR). If requiring other information, see Service Manual of AM-C80 (AU) / F80 (AHC, AHK, AHR, AK, AEZ), (S/M Code No. 09-99B-419-2R2).
- This Service Manual is for AM-F80 (AHK) Blue color.

SPECIFICATIONS

Main unit

Playback system	MiniDisc digital audio system
Laser pickup	Semiconductor laser
Recording system	Magnetic polarity modulation overwrite system
Revolutions	Approx. 400 to 900 rpm (CLV)
Sampling Frequency	44.1 kHz, with built-in sampling frequency rate converter
Number of channels	Stereo: 2 channels Monaural: 1 channel
Modulation system	Eight to Fourteen Modulation (EFM)
A/D, D/A converter	1-bit
Frequency response	20 to 20,000 Hz $\pm$ 1 dB
Wow and Flutter	Below measurable limit (± 0.00 1% W.PEAK)

Input

	MIC	LINE	OPT (digital)
Jack type	Stereo mini-jack	Stereo mini-jack	OPTICAL mini-jack
Rated input level	1.1 mV	280 mV	–
Minimum input level	0.4 mV	100 mV	–

Output

	OUTPUT / PHONES
Jack type	Stereo mini-jack
Maximum output level	10 mW + 10 mW
Load impedance	16 ohms

Power requirements	DC 3.6 V using the supplied lithium-ion rechargeable battery LIB-902 DC 1.5 V using one LR6 (size AA) dry cell batteries (used together with rechargeable battery) AC house current using the supplied AC adaptor AC-D401.
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Battery life	Using the supplied rechargeable battery Approx. 11.5 hours for playback Approx. 5 hours for recording Using the supplied rechargeable battery and one LR6 (size AA) dry cell batteries Approx. 20 hours for playback Approx. 7.5 hours for recording
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Dimensions	Approx. 78.8 (W) X 18.8 (H) X 86.8 (D) mm (3 $\frac{1}{8}$ X 3 $\frac{3}{4}$ X 3 $\frac{1}{2}$ inches)
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Weight	Approx. 163 g (6 oz) including the rechargeable battery.
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AC adaptor (AC-D401)

Output	DC 4.5 V
Rated voltage	AC 230 V, 50 Hz

- Design and specifications are subject to change without notice.

ACCESSORIES / PACKAGE LIST

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
2	87-B30-144-010		AC ADAPTOR, AC-D401K NC
6	8A-HM1-961-010		BOX ASSY, BAT AHM-1 L

ELECTRICAL MAIN PARTS LIST

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
MAIN C.B			
C300	87-012-178-080	C-CAP,U	18P-50 J CH
C355	87-012-270-080	C-CAP,U	470P-50 KB

This exploded view diagram illustrates the assembly of a portable electronic device. The components are numbered 1 through 36, with letters A through I indicating specific assembly points or orientations. Key components include:

- Top Cover (1):** The main upper housing.
- Internal Components (2-10):** Various internal parts including a display (LCD1), a printed circuit board (P.C.B.), and a battery (BATT).
- Bottom Cover (11):** The main lower housing.
- Assembly Sequence:** The diagram shows the step-by-step assembly of the device, from the internal components to the final housing.

MECHANICAL PARTS LIST 1 / 1

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	8A-HM1-063-010		WINDOW, DISP L	26	8A-HM1-203-010		HINGE, PANEL TOP
2	8A-HM1-047-010		PANEL ASSY, TOP L	27	8A-HM1-206-210		FRAME ASSY, FR
3	8A-HM1-229-010		HLDR, PANEL	28	8A-HM1-216-210		FRAME, R
4	8A-HM1-008-110		KEY, CONT SUB	29	8A-HM1-244-110		SPR-T, OPEN
5	8A-HM1-011-010		LENS, REC	30	8Z-HM4-230-010		SPR-E, EJECT
6	8A-HM1-009-010		KEY, SEARCH	31	8A-HM1-250-010		SPR-E, LOCK B
7	8A-HM1-007-010		KEY, CONT MAIN	32	8Z-HM4-226-010		HLDR, PWB
8	8A-HM1-010-010		KNOB, RTRY JOG	33	8A-HM1-237-010		BAT-CONTACT, -
9	8A-HM1-243-010		PLATE, JOG	34	8A-HM1-036-010		PANEL, BOT HK L
10	8A-HM1-226-110		HLDR ASSY, TOP	35	8A-HM1-068-010		KNOB, SL SEL L
11	8A-HM1-015-010		KNOB, SL HOLD	36	8A-HM1-225-110		HLDR LCD
12	8A-HM1-012-010		KNOB, SL EJECT	37	8A-HM1-272-010		W-L, 1.7-3.6-0.05 W/ADH
13	8A-HM1-013-010		KNOB, SL REC	A	87-HM1-254-010		S-SCREW, 1.4-1.4CR
14	8A-HM1-014-210		KNOB, LEVER REC	B	87-078-052-010		S-SCREW+1.4-3.5HL(B)
15	8A-HM1-003-210		FRAME, CENTER	C	87-HM1-242-010		S-SCREW, 1.4-2.0CR
16	8A-HM1-235-110		SHAFT, HINGE BATT	D	8A-HM1-291-010		SCREW, 1.4-1.0CR
17	8A-HM1-234-210		HINGE, BATT	E	87-HM1-243-010		S-SCREW, 1.4-1.4CRNL
18	8A-HM1-058-010		LID, BATT L	F	87-067-746-010		SCREW, M 1.4-2(H0.5)
19	8A-HM1-295-010		W-P, 0.7-2.5-0.18	G	8A-HM3-222-010		S-SCREW, +1.4-3.0 CR
20	8A-HM1-239-510		COVER, BATT -	H	88-ZG2-256-010		S-SCREW, +1.4-3.5
21	8A-HM1-242-110		SPR-E, REC	I	86-HK4-224-010		S-SCREW, SERR+1.4-3.5
22	8A-HM1-232-010		COVER, BATT BOX	J	8Z-HM1-236-010		S-SCREW, +1.4-1.2 SWCH CR
23	8A-HM1-236-110		BAT-CONTACT, +				
24	8A-HM1-238-010		COVER, BATT +				
25	8A-HM1-233-010		BAT-CONTACT, BOX				

COLOR NAME TABLE

Basic color symbol	Color	Basic color symbol	Color	Basic color symbol	Color
B	Black	C	Cream	D	Orange
G	Green	H	Gray	L	Blue
LT	Transparent Blue	N	Gold	P	Pink
R	Red	S	Silver	ST	Titan Silver
T	Brown	V	Violet	W	White
WT	Transparent White	Y	Yellow	YT	Transparent Yellow
LM	Metallic Blue	LL	Light Blue	GT	Transparent Green
LD	Dark Blue	DT	Transparent Orange	GM	Metallic Green
YM	Metallic Yellow	DM	Metallic Orange		

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