

SERVICE MANUAL

STEREO
CASSETTE PLAYER

BASIC TAPE MECHANISM : TN-8SA-128

This Service Manual contains information about the difference between HS-AP1MK7 <Y1> and HS-AP1MK3<YZ1>. If requiring other information, see Service Manual HS-GS174/AP1MK3<YZ1,Y>. (S/M Code No. 09-978-215-40I)

SPECIFICATIONS

Maximum output	8 mW + 8 mW (EIAJ 16 ohms) 9 mW + 9 mW (EIAJ 32 ohms)
Power sources	DC 3V, using two R6 (size AA) batteries AC house current using an optional AC adaptor aiwa AC-300/AC-302
Maximum Dimensions	114 (W) x 92 (H) x 36.8 (D) mm (4 ¹ / ₂ x 3 ⁵ / ₈ x 1 ¹ / ₂ in.)
Weight	Approx.155 g, 5.4 oz (excluding batteries)

- Design and specifications are subject to change without notice.
- Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation.
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ELECTRICAL MAIN PARTS LIST

REF.NO.	PART NO.	KANRI NO.	DESCRIPTION	REF.NO.	PART NO.	KANRI NO.	DESCRIPTION
IC				SW101	87-A90-050-010		SW, SL 2-2-2 NS (BLK)
	87-A20-460-040	IC, MM1336CF		TH101	87-026-256-090		THERMISTOR, HT-100
	87-001-875-080	IC, BA1106FS		VR101	87-024-326-010		VOLUME 20KA
				DOLBY C . B			
DIODE				C301	87-016-462-080		C-CAP, S 1-16 F
	87-020-339-080	CHIP DIODE, 1SS226		C302	87-016-462-080		C-CAP, S 1-16 F
				C303	87-010-193-080		CHIP CAPACITOR, 0.033
				C304	87-010-193-080		CHIP CAPACITOR, 0.033
				C305	87-010-186-080		CAP, CHIP 4700P
MAIN C . B				C306	87-010-186-080		CAP, CHIP 4700P
C105	87-015-676-010	CAP, E 47-6.3 7L		C307	87-010-197-080		CAP, CHIP 0.01 DM
C106	87-015-676-040	E/CAP 47/6.3		C308	87-010-197-080		CAP, CHIP 0.01 DM
C116	87-015-691-040	CAP, E0.1-50 SRA		C309	87-010-193-080		CHIP CAPACITOR, 0.033
C119	84-439-620-010	CAP, ELECT 470-4		C310	87-010-193-080		CHIP CAPACITOR, 0.033
C120	84-439-620-010	CAP, ELECT 470-4					
C121	87-015-695-010	CAP, E 1-50 7L		C311	87-010-196-080		CHIP CAPACITOR, 0.1-25
C123	87-015-674-040	CAP E 22-6.3M SRA		C312	87-010-196-080		CHIP CAPACITOR, 0.1-25
C125	87-015-674-080	CAP 22U-6.3V		C313	87-016-436-080		C-CAP, TN 47-4(B2)
C126	87-015-674-010	CAP 22U-6.3V		C315	87-010-196-080		CHIP CAPACITOR, 0.1-25
C127	87-018-134-010	CERA-SOL SS0.01		C316	87-016-462-080		C-CAP, S 1-16 F
C230	87-018-134-010	CERA-SOL SS0.01		C317	87-016-462-080		C-CAP, S 1-16 F
C701	87-010-303-080	C-CAP, S 330P-50CH		C320	87-016-462-080		C-CAP, S 1-16 F
C702	87-010-303-080	C-CAP, S 330P-50CH		C321	87-016-462-080		C-CAP, S 1-16 F
C703	87-018-131-010	CAP, 1000P		S303	87-036-123-080		CHIP SLIDE SWITCH, 1-1-2
J101	87-A60-122-010	JACK, DC 3.8		GEQ C . B			
J102	83-HRL-602-010	JACK, 3.5ST					
R115	87-022-657-010	RES, K43G 0.68					
SFR101	87-024-197-010	SEMI-FIXED RESISTOR, 1K			83-HRG-605-110		G-EQ ASSY(SB)
SFR102	87-024-197-010	SEMI-FIXED RESISTOR, 1K					
SFR103	87-024-197-010	SEMI-FIXED RESISTOR, 1K					

ADJUSTMENT

<TAPE PLAYER SECTION>

1. Motor load adjustment.

Perform the STOP→PLAY and REVERSE operations (or PAUSE ON→OFF) after the motor is replaced. When the tape starts running smooth, this adjustment is not necessary. If wow is conspicuous at the begining of the tape-run, perform this adjustment following the procedure below.

- 1) Solder both resistor pattern (B) and (C) of the MOTOR AND GOVERNOR MATCHING ADJ. resistor group.
- 2) Set the tape speed (using speed adjustment SFR101).
- 3) Restrict the motor rotation by hand (or turn PAUSE ON).
- 4) Remove your hand and listen to the begining of the tape-run.
- 5) When the rise of tape is running is smooth, no more adjustment is necessary.

If wow continues for 1 to 2 seconds at the rise time, reduce the combined resistance according to procedure 6 and check that the tape starts running smooth.

- 6) Solder the resistor pattern according to the table below.

Pattern	(Procedure 1 above)	Step (1)	Step (2)
High resistance (C)	Solder	Open	Solder
Medium resistance (B)	Solder	Solder	Open
Low resistance (A)	Open	Open	Solder

- 7) Finally re-check the tape speed.

Caution : Cool the pattern down to normal temperature after soldering. If the pattern remains heated, the governor circuit does not operate normally.

MECHANICAL PARTS LIST 1 / 1

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
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1	87-HGA-016-010	KNOB, SL DOL	AP1MK7
2	87-HGA-017-010	KNOB, SL TRE	AP1MK7
3	87-HGA-018-010	KNOB, SL BAS	AP1MK7
4	87-HGA-019-010	KNOB, SL S-B	AP1MK7
5	87-HGA-015-010	PANEL, CASS	AP1MK7
6	87-HGA-008-010	PLATE, INDI G-EQ	
7	87-HGA-009-010	PLATE, INDI DOLBY	
8	87-HGA-014-010	LID, CASS	AP1MK7
9	87-HG8-208-010	SPR-T, CASS	
10	87-HG8-215-010	SPR-P, CASS	A
11	87-HGA-067-010	FRAME, CENTRE	DOLBY
12	87-HGA-058-010	BTN, PLAY	
13	87-HGA-059-010	BTN, REW	
14	87-HGA-060-010	BTN, FF	
15	87-HGA-061-010	BTN, STOP	
16	87-HG8-015-010	KNOB, RTRY VOLUME	
17	87-HGA-063-010	LID, BAT	
18	87-HGA-068-010	CABI, REAR	
A	87-067-732-010	TAPPING SCREW, VT1.4-3	
B	87-262-505-310	V+1.4-2.5	BLK
C	87-262-533-310	V+1.7-6	

ACCESSORIES / PACKAGE LIST

REF.NO.	PART NO.	KANRI NO.	DESCRIPTION
1	87-HGA-907-010	IB, YZ (6L)C	
2	87-B30-168-010	HEADPHONE, HP-M006 (K)	
3	84-447-019-110	CLIP, BELT	

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サービス松屋ニュース	
番号	連絡内容
Q-	-
G-	-
Q-	-