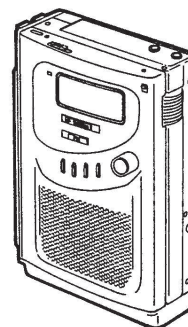


AIWA®

HS-J707

SERVICE MANUAL



STEREO RADIO CASSETTE RECORDER

• BASIC TAPE MECHANISM : $\alpha - 1$

• TYPE. H,U,C,E,K,Z

SPECIFICATIONS

Frequency range:

FM: 87.5/87.5 — 108.1/108MHz (200/50kHz STEP)

AM: 530/531 — 1710/1602kHz (10/9kHz STEP)

Maximum output:

HP: 10mW + 10mW (EIAJ/16 Ω)

8mW + 8mW (EIAJ/32 Ω)

SP: 30mW (EIAJ/8 Ω)

Power source:

Battery DC 2V, rechargeable battery (AIWA PB-3)

Battery DC 3V, LR-03 (UM-4, AAA, R03) $\times$ 2

Domestic AC power (using the supplied AC adaptor)

Battery life:

Rechargeable battery (PB-3)

HP: Approx. 2 hours (EIAJ, REC/1 hour recharging)

Approx. 1.5 hours (EIAJ, PB 1mW/10 minutes recharging)

Approx. 3 hours (EIAJ, PB 1mW/1 hour recharging)

SP: Approx. 2 hours (EIAJ, PB 10mW/1 hour recharging)

Dimensions:

76 (W) $\times$ 106.1 (H) $\times$ 24.3 (D) mm

(3 $\times$ 4 $\frac{1}{4}$ $\times$ 3 $\frac{1}{32}$ in.)

Weight:

Approx. 225g (0.5 lbs.) without batteries

< AC adaptor/AC-207 >

Rated voltage:

AC-207H AC 115V/230V, switchable

AC-207E AC 220V

AC-207K AC 240V

AC-207U, C AC 120V

Rated output:

DC 2V 350mA

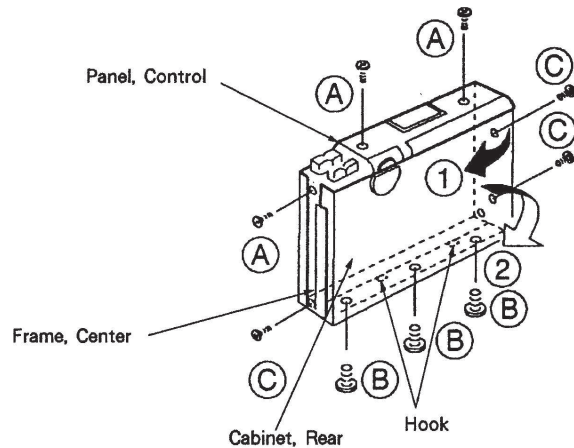
- Design and specifications are subject to change without notice.
- Noise reduction system manufactured under license from Dolby Laboratories Licensing Corporation.
- "Dolby", the double-D symbol are trademarks of Dolby Laboratories Licensing Corporation.

DISASSEMBLY INSTRUCTIONS

1. "Panel, Control, Cabinet, Rear and Frame, Center" Removal

(See Figure - 1)

- 1) Remove 3 screws (A) and take out the "Panel, Control".
- 2) Remove 3 screws (B) and take out the "Cabinet, Rear" in the direction of the arrow ①.
- 3) Remove 3 screws (C) and release two hooks, then take out the "Frame, Center" in the direction of the arrow ②.



2. "Lid, Cassette" Removal (See Figure - 2)

- 1) Remove 2 screws (A) × 1, (B) × 1 and remove the "Lid, Cassette".

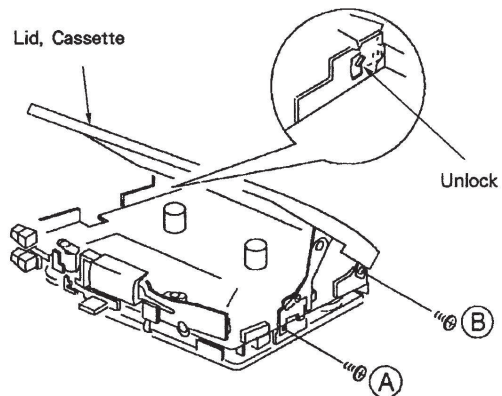


Fig - 2

3. "Main Circuit Board" Removal (See Figure - 3)

- 1) Remove 2 screws (A) and remove the "Main Circuit Board".

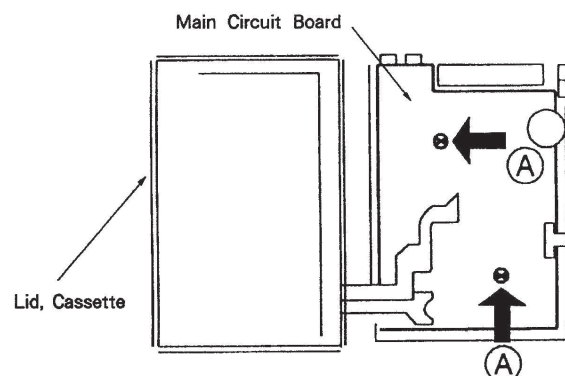


Fig - 3

4. "Holder Cassette ASSY" Removal (See Figure – 4)

- 1) Remove 6 screws (A×3, B×1, C×2) and remove the "Holder Cassette ASSY".

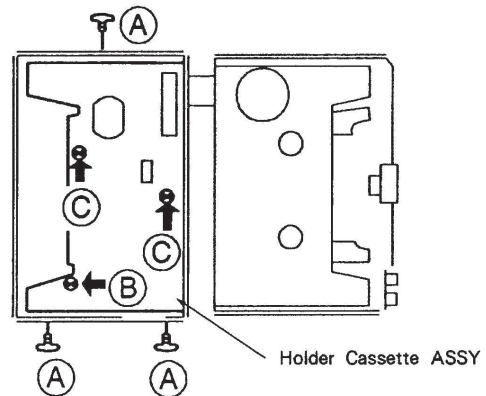


Fig – 4

5. "Front Circuit Board" Removal (See Figure – 5)

- 1) Remove 2 screws (A) and remove the "Front Circuit Board".

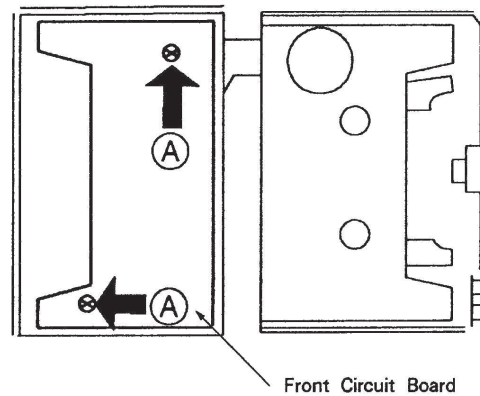


Fig – 5

6. "Push – Button, PLAY" Removal (See Figure – 6)

- 1) Remove the "Panel, Control" and "Cabinet, Rear".
- 2) Move the "Push – Button, PLAY" in the direction of the arrow ① by 1.5mm to release the lock and pull it up in the direction of the arrow ② to remove it.

Note) Fix the "Push – Button, PLAY" with bond.

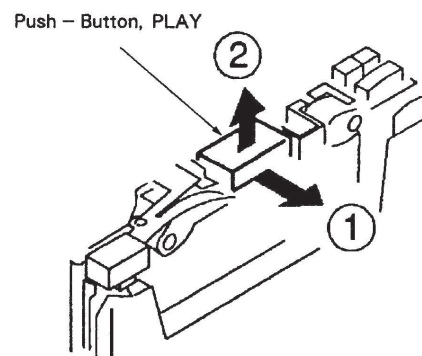


Fig – 6

ELECTRICAL MAIN PARTS LIST

REF. NO.	PART NO.	DESCRIPTION
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=== IC ===

87-001-351-080	IC, AN6612S
87-001-147-080	IC, BA1102FS
87-001-373-080	IC, CXA1278N
87-002-232-080	IC, NJM2073M
87-020-234-080	IC, TA7688F(S)
87-001-145-080	IC, TA8126F
87-001-971-080	IC, TA8132AF
87-001-931-080	IC, TA8152AFN
87-001-550-080	IC, TC7S04F
87-001-585-080	IC, TC7S32F
87-001-972-010	IC, TC9308AF-029
87-001-151-080	IC, TD6134F1

=== TRANSISTOR ===

89-508-804-080	FET, 2SK880Y
89-508-805-080	FET, 2SK880GR
89-508-824-080	FET, 2SK882Y
89-112-134-080	TRANSISTOR, 2SA1213Y
89-113-625-080	TRANSISTOR, 2SA1362GR
89-115-864-080	TRANSISTOR, 2SA1586Y
89-115-884-080	TRANSISTOR, 2SA1588Y
89-341-165-080	TRANSISTOR, 2SC4116GR
89-342-132-080	TRANSISTOR, 2SC4213B
89-342-153-080	TRANSISTOR, 2SC4215(O)
87-026-352-080	TRANSISTOR, DTC144TU
87-026-466-080	TRANSISTOR, HNIC01F(Y)
87-026-358-080	TRANSISTOR, IMD6
87-026-407-080	TRANSISTOR, IMX2
87-026-412-080	TRANSISTOR, RN1305
87-026-417-080	TRANSISTOR, RN1310
87-026-476-080	TRANSISTOR, RN1610
87-026-428-080	TRANSISTOR, RN2310
87-026-479-010	TRANSISTOR, RN2610
87-026-480-080	TRANSISTOR, RN4605
87-026-482-080	TRANSISTOR, RN4610

=== DIODE ===

87-020-339-080	DIODE, CHIP 1SS226
87-001-165-080	DIODE, CHIP 1SS300
87-001-166-080	DIODE, CHIP 1SS301
87-001-167-080	DIODE, CHIP 1SS302
87-001-221-080	DIODE, CHIP 1SS319
87-001-553-080	DIODE, CHIP 1SS322

=== MAIN CIRCUIT BOARD SECTION ===

BPF1	★87-008-406-080	BPF, GFMB1 (EXCEPT DH1)
BPF1	★81-HW1-628-080	BPF, GFWB1 (DH1)
C2	★87-010-829-080	CAP, CHIP SS 0.047-16 F
C4	★87-012-191-080	CAP, CHIP SS 68P-50 CH (EXCEPT DH1)
C4	★87-012-268-080	CAP, CHIP SS 330P-50 B (DH1)
C5	★87-012-286-080	CAP, CHIP SS 0.01-25 B
C7	★87-010-829-080	CAP, CHIP SS 0.047-16 F
C9	★87-010-316-080	CAP, CHIP S 33P-50 CH (EXCEPT DH1)
C9	★87-010-994-080	CAP, CHIP S 680P-50 CH (DH1)
C11	★87-012-162-080	CAP, CHIP SS 1P-50 CK
C12	★87-012-337-080	CAP, CHIP SS 56P-50 CH
C13	★87-012-198-080	CAP, CHIP SS 180P-50 CH
C15	★87-012-282-080	CAP, CHIP SS 4700P-50 B
C16	★87-012-271-080	CAP, CHIP SS 560P-50 B
C17	★87-012-275-080	CAP, CHIP SS 1200P-50 B
C18	★87-010-243-080	CAP, CHIP TANTALUM 10-4
C19	★87-012-286-080	CAP, CHIP SS 0.01-25 B

REF. NO.	PART NO.	DESCRIPTION
----------	----------	-------------

C20	★87-010-829-080	CAP, CHIP SS 0.047-16 F
C21	★87-012-286-080	CAP, CHIP SS 0.01-25 B
C22	★87-010-787-080	CAP, CHIP SS 0.022-25 B
C23	★87-012-286-080	CAP, CHIP SS 0.01-25 B
C24	★87-010-243-080	CAP, CHIP TANTALUM 10-4
C25	★87-012-286-080	CAP, CHIP SS 0.01-25 B
C26	★87-010-196-080	CAP, CHIP S 0.1-25 F
C27	★87-012-286-080	CAP, CHIP SS 0.01-25 B
C28	★87-012-253-080	CAP, CHIP SS 33P-50 UJ
C29	★87-012-272-080	CAP, CHIP SS 680P-50 B
C30	★87-012-282-080	CAP, CHIP SS 4700P-50 B
C31	★87-012-286-080	CAP, CHIP SS 0.01-25 B
C32	★87-010-787-080	CAP, CHIP SS 0.022-25 B
C33	★87-010-424-080	CAP, CHIP TANTALUM 4.7-4
C34	★87-012-282-080	CAP, CHIP SS 4700P-50 B
C35	★87-010-668-080	CAP, CHIP ELECT 220-4 MV
C36	★87-010-668-080	CAP, CHIP ELECT 220-4 MV
C37	★87-010-668-080	CAP, CHIP ELECT 220-4 MV
C38	★87-010-668-080	CAP, CHIP ELECT 220-4 MV
C39	★87-012-286-080	CAP, CHIP SS 0.01-25 B
C41	★87-012-273-080	CAP, CHIP SS 820P-50 B
C42	★87-010-831-080	CAP, CHIP SS 0.1-16 F
C43	★87-012-286-080	CAP, CHIP SS 0.01-25 B
C44	★87-012-278-080	CAP, CHIP SS 2200P-50 B
C45	★87-010-452-080	CAP, CHIP 1-16 F
C46	★87-010-805-080	CAP, CHIP S 1-16 F
C47	★87-010-831-080	CAP, CHIP SS 0.1-16 F
C48	★87-010-830-080	CAP, CHIP SS 0.068-16 F
C49	★87-010-831-080	CAP, CHIP SS 0.1-16 F
C50	★87-012-280-080	CAP, CHIP SS 3300P-50 B
C51	★87-010-784-080	CAP, CHIP SS 0.012-25 B
C52	★87-010-784-080	CAP, CHIP SS 0.012-25 B
C53	★87-010-667-080	CAP, CHIP ELECT 100-4 MV
C55	★87-012-286-080	CAP, CHIP SS 0.01-25 B
C56	★87-012-286-080	CAP, CHIP SS 0.01-25 B
C57	★87-010-831-080	CAP, CHIP SS 0.1-16 F
C58	★87-012-286-080	CAP, CHIP SS 0.01-25 B
C59	★87-012-199-080	CAP, CHIP SS 220P-50 CH
C60	★87-012-172-080	CAP, CHIP SS 10P-50 CH
C61	★87-012-337-080	CAP, CHIP SS 56P-50 CH
C62	★87-010-831-080	CAP, CHIP SS 0.1-16 F
C63	★87-012-274-080	CAP, CHIP SS 1000P-50 B
C64	★87-012-286-080	CAP, CHIP SS 0.01-25 B
C65	★87-012-193-080	CAP, CHIP SS 82P-50 CH
C101	★87-010-215-080	CAP, CHIP TANTALUM 0.047-35
C102	★87-010-215-080	CAP, CHIP TANTALUM 0.047-35
C103	★87-012-284-080	CAP, CHIP SS 6800P-50 B
C104	★87-012-284-080	CAP, CHIP SS 6800P-50 B
C105	★87-012-278-080	CAP, CHIP SS 2200P-50 B
C106	★87-012-278-080	CAP, CHIP SS 2200P-50 B
C107	★87-010-784-080	CAP, CHIP SS 0.012-25 B
C108	★87-010-784-080	CAP, CHIP SS 0.012-25 B
C109	★87-010-243-080	CAP, CHIP TANTALUM 10-4
C110	★87-010-243-080	CAP, CHIP TANTALUM 10-4
C111	★87-010-787-080	CAP, CHIP SS 0.022-25 B
C112	★87-010-787-080	CAP, CHIP SS 0.022-25 B
C113	★87-010-805-080	CAP, CHIP S 1-16 F
C114	★87-010-805-080	CAP, CHIP S 1-16 F
C115	★87-012-276-080	CAP, CHIP SS 1500P-50 B
C116	★87-012-276-080	CAP, CHIP SS 1500P-50 B
C117	★87-010-805-080	CAP, CHIP S 1-16 F
C118	★87-010-805-080	CAP, CHIP S 1-16 F
C119	★87-010-243-080	CAP, CHIP TANTALUM 10-4
C120	★87-010-243-080	CAP, CHIP TANTALUM 10-4

REF. NO.	PART NO.	DESCRIPTION	REF. NO.	PART NO.	DESCRIPTION
C121	★87-010-746-080	CAP, CHIP TANTALUM 10-4	C308	★87-010-452-080	CAP, CHIP 1-16 F
C122	★87-010-746-080	CAP, CHIP TANTALUM 10-4	C309	★87-010-424-080	CAP, CHIP TANTALUM 4. 7-4
C123	★87-012-199-080	CAP, CHIP SS 220P-50 CH	C311	★87-012-195-080	CAP, CHIP SS 100P-50 CH
C124	★87-012-286-080	CAP, CHIP SS 0. 01-25 B	C312	★87-010-831-080	CAP, CHIP SS 0. 1-16 F
C125	★87-012-286-080	CAP, CHIP SS 0. 01-25 B	C313	★87-010-667-080	CAP, CHIP ELECT 100-4 MV
C126	★87-012-276-080	CAP, CHIP SS 1500P-50 B	C504	★87-010-196-080	CAP, CHIP S 0. 1-25 F
C127	★87-010-424-080	CAP, CHIP TANTALUM 4. 7-4	C901	★87-010-640-080	CAP, CHIP TANTALUM 22-4
C128	★87-012-286-080	CAP, CHIP SS 0. 01-25 B	C903	★87-010-452-080	CAP, CHIP 1-16 F
C129	★87-012-280-080	CAP, CHIP SS 3300P-50 B	C904	★87-010-452-080	CAP, CHIP 1-16 F
C130	★87-012-286-080	CAP, CHIP SS 0. 01-25 B	CF1	★87-008-455-080	FILTER, KIT 10. 7M(EXCEPT DH1)
C131	★87-012-272-080	CAP, CHIP SS 680P-50 B	CF2	+++	FILTER, KIT 10. 7M(EXCEPT DH1)
C132	★87-012-272-080	CAP, CHIP SS 680P-50 B	CF4	+++	FILTER, KIT 10. 7M(EXCEPT DH1)
C133	★87-012-274-080	CAP, CHIP SS 1000P-50 B	CF1	★87-008-440-080	FILTER KIT 10. 7AE(DH1)
C134	★87-012-274-080	CAP, CHIP SS 1000P-50 B	CF2	+++	FILTER KIT 10. 7AE(DH1)
C135	★87-012-274-080	CAP, CHIP SS 1000P-50 B	CF4	+++	FILTER KIT 10. 7AE(DH1)
C136	★87-012-274-080	CAP, CHIP SS 1000P-50 B	CF3	★87-008-396-080	FILTER, CF, 450KHZ
C137	★87-010-828-080	CAP, CHIP SS 0. 033-16 F	CF5	★87-030-182-010	CSB456F-FBL18
C138	★87-010-828-080	CAP, CHIP SS 0. 033-16 F	CP1	87-026-248-010	PHOTO SENSOR, ON2270Q2
C139	★87-012-282-080	CAP, CHIP SS 4700P-50 B	D2	87-001-708-080	VARICAP, 1SV228
C140	★87-012-282-080	CAP, CHIP SS 4700P-50 B	D4	87-001-708-080	VARICAP, 1SV228
C141	★87-010-424-080	CAP, CHIP TANTALUM 4. 7-4	D5	87-026-435-080	VARICAP, KV1560
C142	★87-010-424-080	CAP, CHIP TANTALUM 4. 7-4	J101	87-009-252-010	JACK, 3. 5 R(L) (MIC)
C143	★87-012-286-080	CAP, CHIP SS 0. 01-25 B	J102	87-009-248-010	JACK, 3. 5 BK(L) (PHONES)
C144	★87-012-286-080	CAP, CHIP SS 0. 01-25 B	J103	★87-049-859-080	JACK, DC REFLOW BLK(DC2V)
C145	★87-010-828-080	CAP, CHIP SS 0. 033-16 F	L2	★80-HJ3-615-010	COIL, RF FM Y
C146	★87-010-828-080	CAP, CHIP SS 0. 033-16 F	L4	★80-HJ3-616-010	COIL, OSC FM Y(EXCEPT DH1)
C147	★87-010-831-080	CAP, CHIP SS 0. 1-16 F	L4	★80-HJA-604-010	COIL, OSC FM D(DH1)
C148	★87-010-831-080	CAP, CHIP SS 0. 1-16 F	L5	★87-006-168-080	COIL, IFT FM
C149	★87-010-673-080	CAP, CHIP ELECT 100-2	L6	★84-462-618-010	COIL, ROADING
C150	★87-010-668-080	CAP, CHIP ELECT 220-4 MV	L8	★87-003-226-010	COIL, 100UH
C151	★87-010-805-080	CAP, CHIP S 1-16 F	L9	★87-008-420-080	IFT, 450K, MW
C152	★87-010-805-080	CAP, CHIP S 1-16 F	L10	★87-005-262-080	COIL, 10UH
C153	★87-010-829-080	CAP, CHIP SS 0. 047-16 F	L101	★87-007-270-080	COIL, OSC BIAS
C154	★87-010-829-080	CAP, CHIP SS 0. 047-16 F	L102	★87-003-218-080	COIL, 1UH
C155	★87-010-829-080	CAP, CHIP SS 0. 047-16 F	R314	★87-022-042-080	RES, CHIP M/F 0. 51-1/8
C156	★87-010-829-080	CAP, CHIP SS 0. 047-16 F	S1	87-036-123-080	SLIDE SW(FM MODE)
C157	★87-012-270-080	CAP, CHIP SS 470P-50 B	S101	87-036-123-080	SLIDE SW(FWD/REV)
C158	★87-012-270-080	CAP, CHIP SS 470P-50 B	S102	87-036-082-010	SLIDE SW(REC/PB)
C159	★87-010-805-080	CAP, CHIP S 1-16 F	S103	87-036-123-080	SLIDE SW(TAPE)
C160	★87-010-805-080	CAP, CHIP S 1-16 F	S104	87-036-123-080	SLIDE SW(DOLBY NR)
C161	★87-010-787-080	CAP, CHIP SS 0. 022-25 B	S301	87-036-123-080	SLIDE SW(PAUSE)
C162	★87-010-787-080	CAP, CHIP SS 0. 022-25 B	S302	87-036-083-080	PUSH SW(POWER)
C163	★87-012-270-080	CAP, CHIP SS 470P-50 B	SFR101	★87-024-288-080	SFR, 10K
C164	★87-012-270-080	CAP, CHIP SS 470P-50 B	SFR102	★87-024-288-080	SFR, 10K
C166	★87-012-199-080	CAP, CHIP SS 220P-50 CH	SFR301	★87-024-076-080	SFR, 1K
C167	★87-010-662-080	CAP, CHIP ELECT 22-6. 3	TC2	★87-011-189-080	TRIMMER, CHIP, CTZ-10A
C168	★87-010-668-080	CAP, CHIP ELECT 220-4 MV	TC3	★87-011-189-080	TRIMMER, CHIP, CTZ-10A
C169	★87-010-664-080	CAP, CHIP ELECT 47-4 MV	VR201	87-024-142-010	VOLUME, 20KC(VOLUME)
C171	★87-010-668-080	CAP, CHIP ELECT 220-4 MV	=== CONTROL CIRCUIT BOARD SECTION ===		
C172	★87-010-828-080	CAP, CHIP SS 0. 033-16 F	BAT1	★84-462-614-010	BATT CL
C175	★87-010-805-080	CAP, CHIP S 1-16 F	C501	★87-012-184-080	CAP, CHIP SS 33P-50 CH
C176	★87-010-805-080	CAP, CHIP S 1-16 F	C502	★87-012-170-080	CAP, CHIP SS 8P-50 CH
C177	★87-010-674-080	CAP, CHIP ELECT 220-2 MV	C503	★87-012-286-080	CAP, CHIP SS 0. 01-25 B
C178	★87-010-674-080	CAP, CHIP ELECT 220-2 MV	C504	★87-010-196-080	CAP, CHIP S 0. 1-25 F
C179	★87-012-360-080	CAP, CHIP S 1-10 FZ	C505	★87-010-196-080	CAP, CHIP S 0. 1-25 F
C180	★87-012-360-080	CAP, CHIP S 1-10 FZ	C506	★87-010-190-080	CAP, CHIP S 0. 01-50 F
C181	★87-012-360-080	CAP, CHIP S 1-10 FZ	C508	★87-012-199-080	CAP, CHIP SS 220P-50 CH
C182	★87-012-360-080	CAP, CHIP S 1-10 FZ	C509	★87-012-197-080	CAP, CHIP SS 150P-50 CH
C301	★87-012-286-080	CAP, CHIP SS 0. 01-25 B	C510	★87-010-787-080	CAP, CHIP SS 0. 022-25 B
C302	★87-010-452-080	CAP, CHIP 1-16 F	C511	★87-010-505-080	CAP, CHIP TANTALUM 1-16
C303	★87-010-452-080	CAP, CHIP 1-16 F	C512	★87-012-195-080	CAP, CHIP SS 100P-50 CH
C304	★87-010-424-080	CAP, CHIP TANTALUM 4. 7-4	C513	★87-010-505-080	CAP, CHIP TANTALUM 1-16
C306	★87-010-746-080	CAP, CHIP TANTALUM 10-4	C514	★87-010-190-080	CAP, CHIP S 0. 01-50 F
C307	★87-015-934-080	CAP, CHIP TANTALUM 2. 2-4			

REF. NO.	PART NO.	DESCRIPTION
C515	★87-012-199-080	CAP, CHIP SS 220P-50 CH
C516	★87-012-195-080	CAP, CHIP SS 100P-50 CH
C517	★87-010-953-010	CAP, ELECT 0.33F-2.5
C518	★87-012-172-080	CAP, CHIP SS 10P-50 CH
C519	★87-012-276-080	CAP, CHIP SS 1500P-50 B
C520	★87-010-746-080	CAP, CHIP TANTALUM 10-4
C521	★87-012-286-080	CAP, CHIP SS 0.01-25 B
C524	★87-012-271-080	CAP, CHIP SS 560P-50 B
C525	★87-012-286-080	CAP, CHIP SS 0.01-25 B
C526	★87-012-286-080	CAP, CHIP SS 0.01-25 B
C527	★87-010-746-080	CAP, CHIP TANTALUM 10-4
C528	★87-010-196-080	CAP, CHIP S 0.1-25 F
C529	★87-012-286-080	CAP, CHIP SS 0.01-25 B
C530	★87-012-286-080	CAP, CHIP SS 0.01-25 B
C531	★87-010-800-080	CAP, CHIP TANTALUM 1-10
C532	★87-012-141-080	CAP, CHIP S 0.22-16 F
D506	87-020-508-080	LED, SLM-13VW(OPE./BATT.)
L501	★87-003-231-080	COIL, S 1UH
L502	★87-006-173-080	COIL, DD, 5CDL
LCD1	81-HJ4-606-010	LCD, HS ASSY(DISPLAY)
S501	87-036-123-080	SLIDE SW(HOLD)
S502	87-036-123-080	SLIDE SW(AM/FM STEP)
S503	87-036-145-080	SLIDE SW(FUNCTION)
S504	87-036-220-080	TACT SW(UP/HOUR)
S505	87-036-220-080	TACT SW(MEMO/SET)
S506	87-036-220-080	TACT SW(AUTO PRESET)
S507	87-036-220-080	TACT SW(DOWN/MIN)
S508	87-036-220-080	TACT SW(PRESET)
S509	87-036-124-080	SLIDE SW(HP/SP)
S701	87-036-123-080	SLIDE SW(DSL)
X501	★87-030-180-010	X'TAL KF-38R5-8A

REF. NO.	PART NO.	DESCRIPTION
=== REGULATOR CIRCUIT BOARD SECTION ===		
C401	★84-439-620-010	CAP, ELECT 470-4
TM3	★80-HR4-207-010	TERMINAL ASSY, 1.4 2P
=== TERMINAL CIRCUIT BOARD SECTION ===		
TM1	80-HF1-207-110	TERMINAL ASSY, 1.4F
=== HEAD CIRCUIT BOARD SECTION ===		
	84-465-607-110	RPH ASSY(W/PCB-E)
=== CONNECT-1 CIRCUIT BOARD SECTION ===		
PCB-F	★84-462-603-010	FLEXBLE CIRCUIT BOARD 18P
=== CONNECT-2 CIRCUIT BOARD SECTION ===		
PCB-G	★81-HJ4-601-010	AMP FLEXIBL CIRCUIT BORAD
=== JACK CIRCUIT BOARD SECTION ===		
J102	87-009-248-010	JACK, 3.5 BK(L) (PHONES)
PCB-H	80-HJ4-616-010	JACK CIRCUIT BOARD
=== MISCELLANEOUS ===		
EH	86-541-601-110	E HEAD
L7	★84-462-617-010	BAR-ANT
M1	87-045-303-010	MOTOR(26FL-0611)
SP1	★81-HJ4-602-010	SPEAKER

○チップ抵抗部品コード／CHIP RESISTOR PART CODE

チップ抵抗部品コードの成り立ち

Chip resistor part coding

⑧ ⑧ - □ □ □ - □ □ □

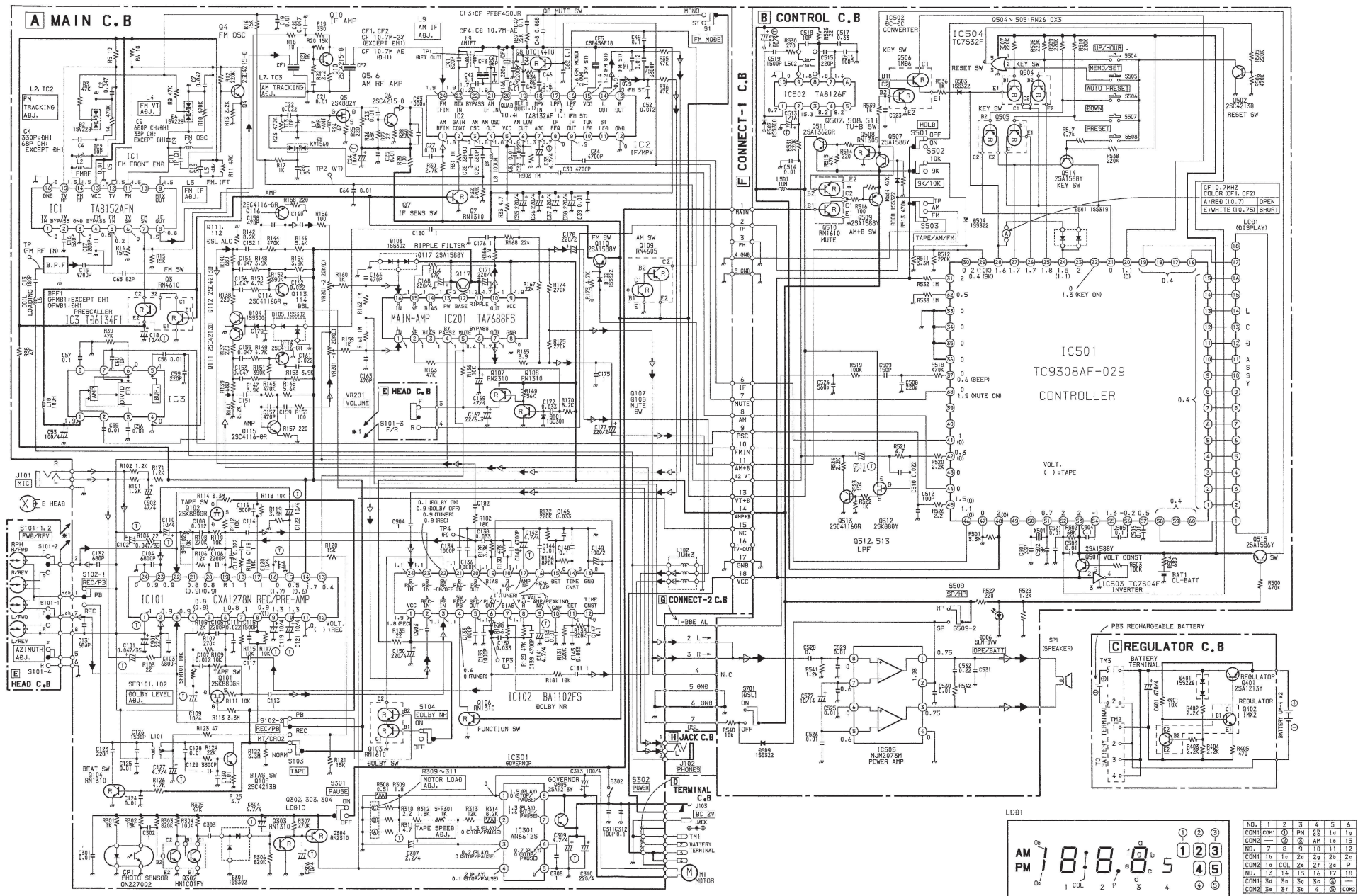
A
抵抗コード
Resistor code

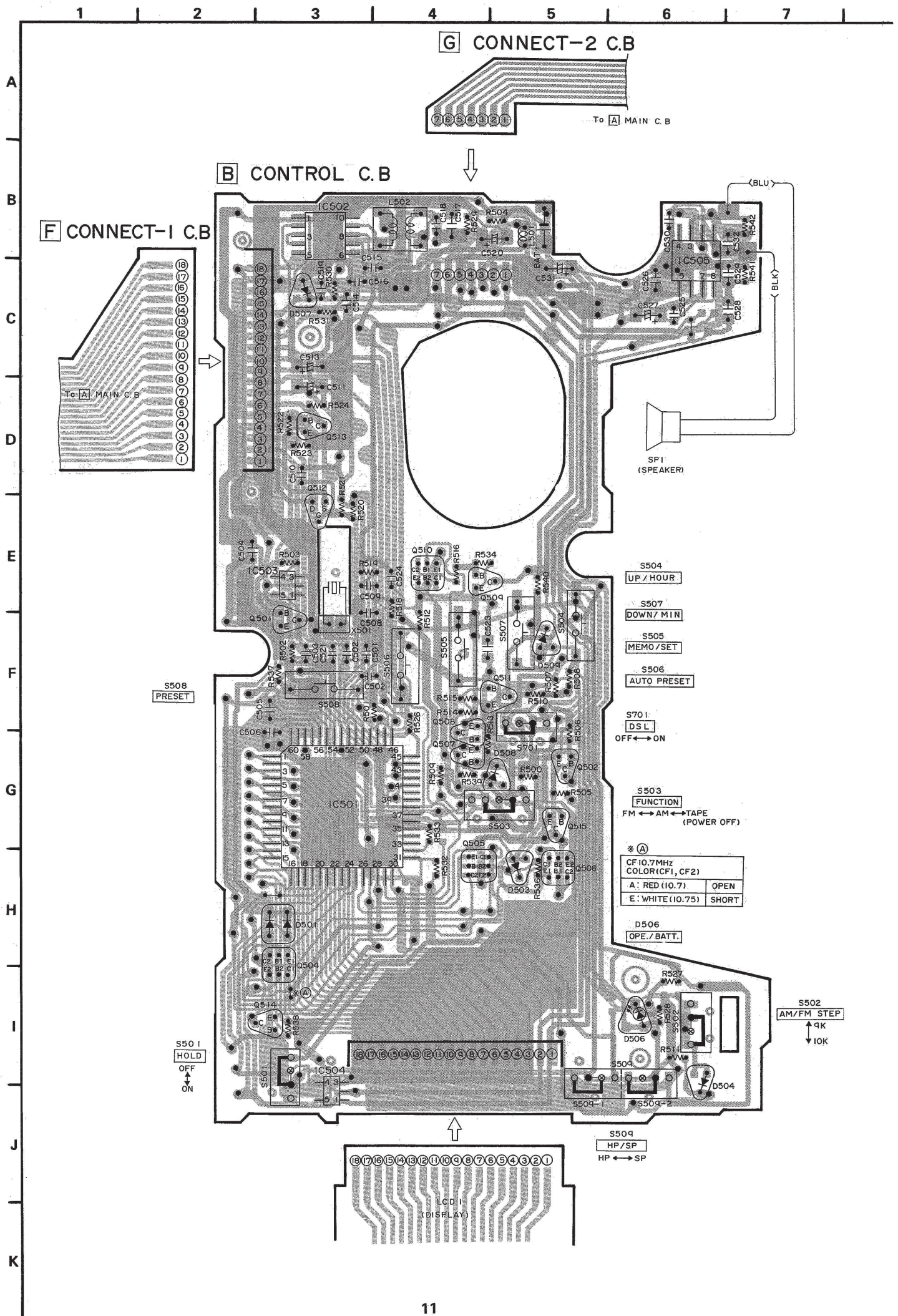
桁表示
Figure

抵抗値
Value of resistor

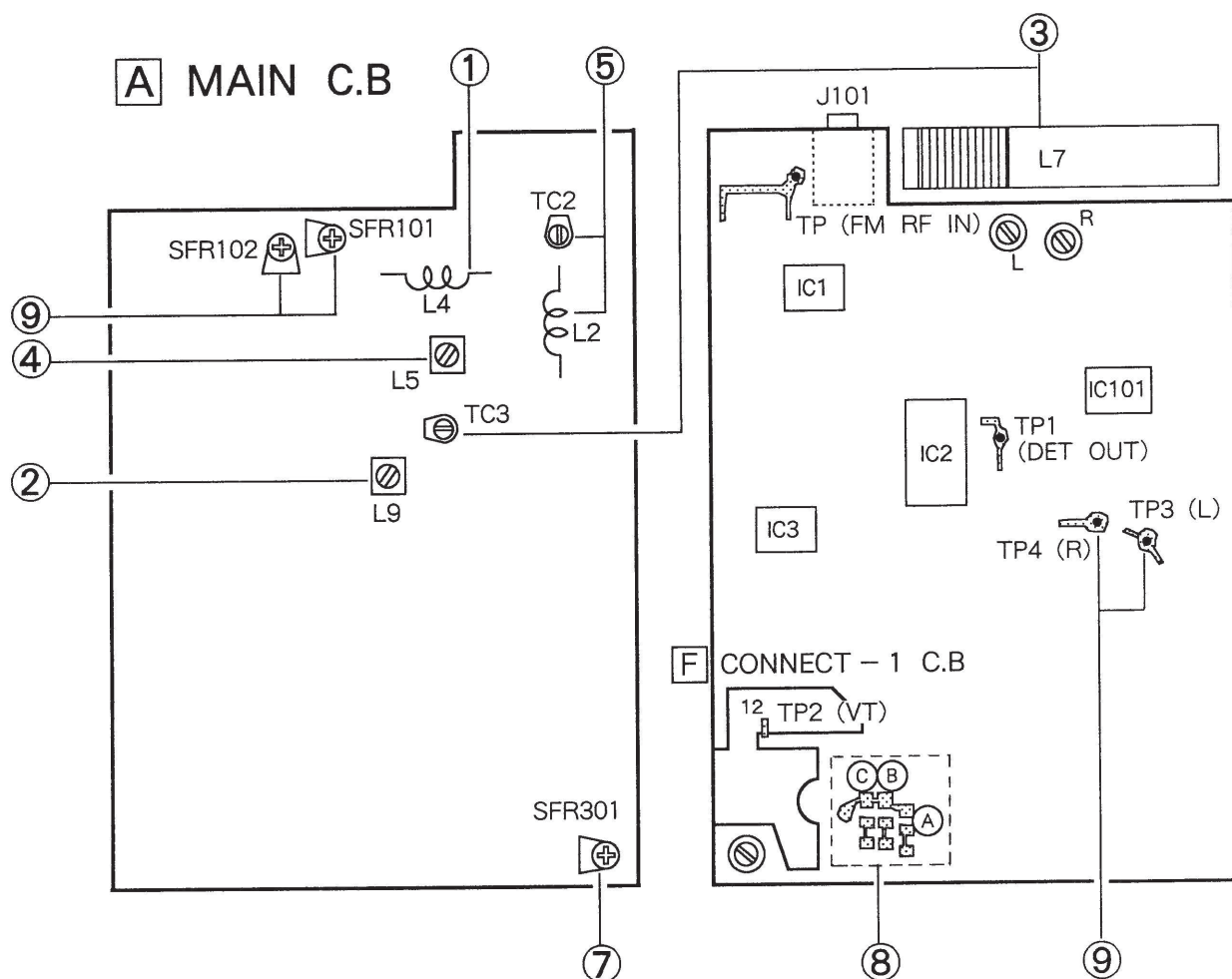
チップ抵抗
Chip resistor

Chip Resistor				Dimensions / 寸法 (mm)				Resistor Code : A
Wattage 容量	Type 種類	Tolerance 許容誤差	Symbol 記号	Form/外形	L	W	t	抵抗コード : A
1/32W	1608	±5%	CJ		1.6	0.8	0.35	108
1/10W	2125	±5%	CJ		2	1.25	1.45	118
1/8W	3216	±5%	CJ		3.2	1.6	0.5 ~0.7	128





ADJUSTMENT



1. FM VT Adjustment

Settings : • Test point : TP2 (VT)
• Adjustment location : L4

Method : • Tune to FM 87.5MHz and adjust L4 so that the voltage TP2 is $1.0V \pm 0.05V$.
After adjustment is completed, check that it is 8.4V or more at TP2 with the FM 108.1MHz (U,C model), FM 108MHz (Except U,C model) signal.

2. AM IF Adjustment

L9 450kHz

3. AM Tracking Adjustment

L7 630kHz
TC3 1440kHz

4. FM IF Adjustment

L5 10.7MHz

5. FM Tracking Adjustment

L2 87.5MHz
TC2 108.1MHz
(U,C model)
108MHz
(Except U,C model)

6. Azimuth Adjustment

Settings : • Test tape : TTA - 320
• Test point : PHONES JACK
• Adjustment location : Azimuth adjustment screw

Method : • Play back the test tape, and adjust so that the output becomes maximum at FWD or REV mode.

7. Tape Speed Adjustment

Settings : • Test tape : TTA - 100 (TTA - 111S)
• Test point : PHONES JACK
• Adjustment location : SFR301 of motor

Method : • Play back the test tape, adjust for 3000Hz at FWD and $\pm 45Hz$ at REV.

8. Motor load Adjustment

Refer to the REF No. SI - 88 - 037 - 0P of service technical information.

9. Dolby Level Adjustment

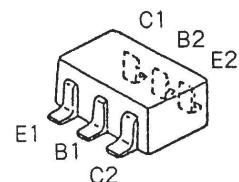
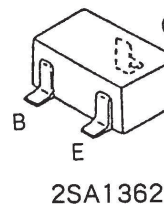
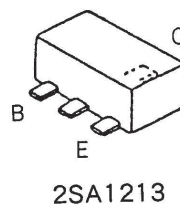
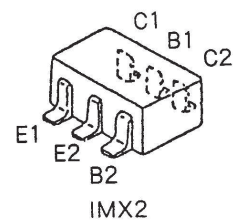
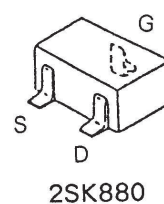
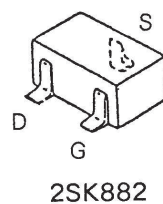
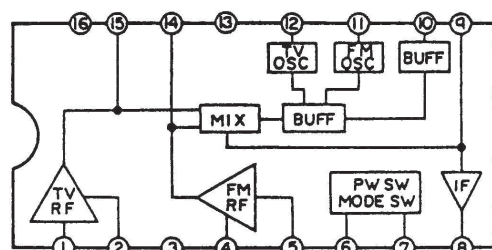
Settings : • Test tape : TTA - 200 (TTA - 161, TCC - 130)
• Test point : TP3 (Lch), TP4 (Rch)
• Adjustment location : SFR101 (Lch)
SFR102 (Rch)

• DOLBY SW : OFF
• DSL SW : OFF
• BBE SW : OFF

Method : • Connect an electrolytic capacitor ($10 \mu F / 16V$) to measured equipment and TP3 (4), adjust for $100mV \pm 5mV$.

IC BLOCK DIAGRAM

IC, TA8152AFN



PRACTICAL SERVICE FIGURE

< RADIO SECTION >

Sensitivity :

(IHF THD 3%)

FM $13 \pm 3\text{dB}$ (98.0MHz)

(S/N 10dB)

AM $54 \pm 4\text{dB}$ (999kHz)

AM $54 \pm 4\text{dB}$ (1000kHz) (U ONLY)

Intermediate frequency : FM 10.7MHz

AM 450kHz

FM stereo separation : FM $20 \pm 4\text{dB}$ (1kHz)

< TAPE RECORDER SECTION >

Bias frequency : 54kHz

Erasing ratio : More than 50dB

Wow & flutter : Less than 0.45% (RMS)

Pinch roller press : $135 \pm 15\text{g-cm}$

Take-up torque : 25~45g-cm (FWD, REV)

F.F & Rew torque : 80~130g-cm

Back tension : 2~3.5g-cm (FWD, REV)

S/N ratio : $50 \pm 4\text{dB}$ (PB)

$30 + 5\text{dB}$ (REC/PB)

Distortion : Less than 3.0% (PB)

Less than 10.0% (REC/PB)

Noise level : Less than 3.0mV (VOL MAX PB)

Less than 20.0mV

(VOL MAX REC/PB)

Frequency response : 63Hz~8kHz $\pm 4.0\text{dB}$ (NORMAL)

63Hz~10kHz $\pm 5.0\text{dB}$

(CrO2, METAL)

2SA1586
2SA1588
2SC4116
2SC4213
2SC4215
RN1305
RN1310
RN2310
DTC144

HN1C01
RN1610
RN2610
RN4605
RN4610
IMD6

See the HS - J303/J900 for the IC description below

	HS - J707	HS - J303/J900
①	TC9308AF - 029	TC9308AF - 014

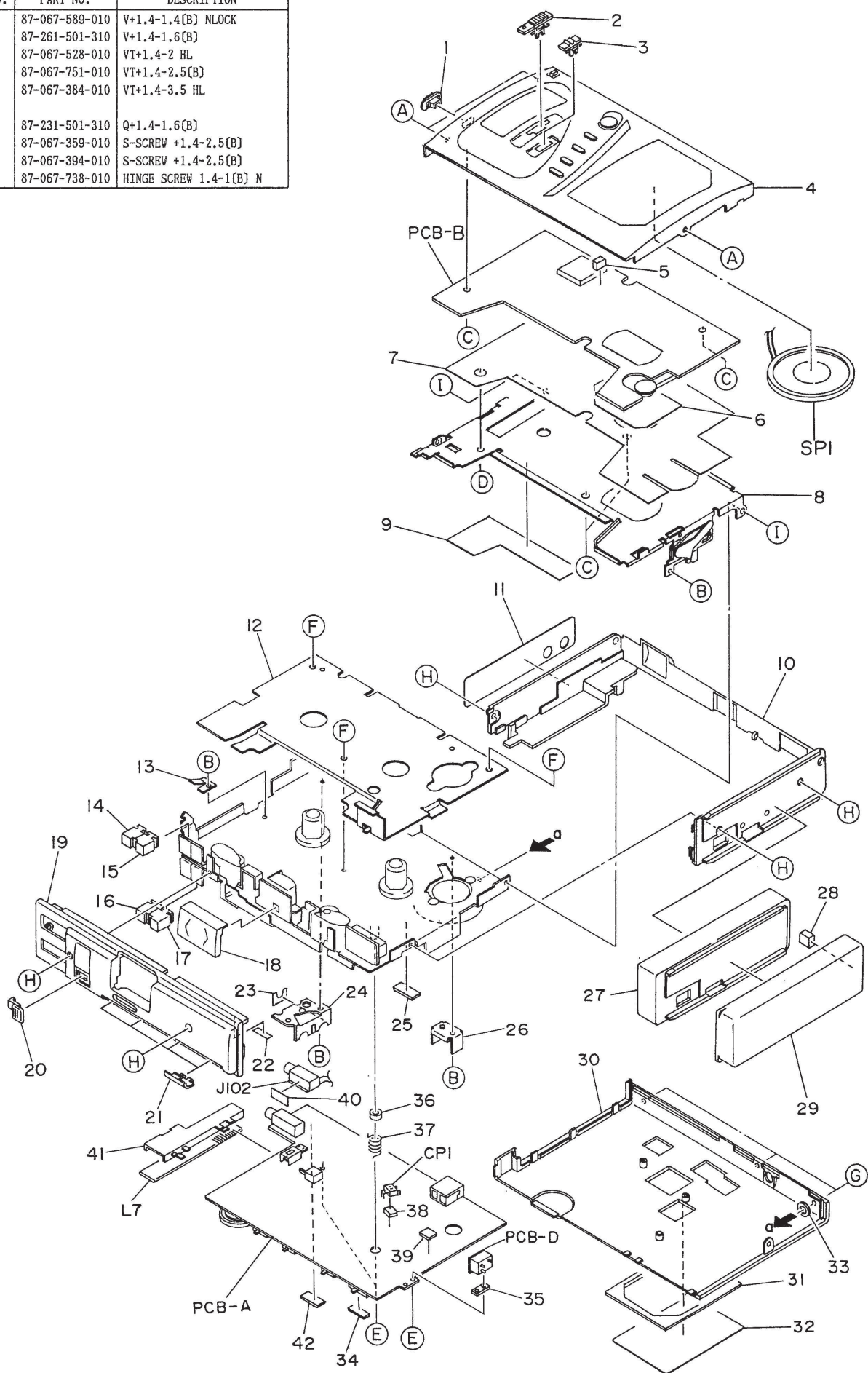
IC BLOCK DIAGRAM

TA8132AF, CXA1278FS, TA7688FS, BA1102FS, AN6612S

Refer to the HS - J303/J900 service manual.

EXPLODED VIEW - 1

REF.NO.	PART NO.	DESCRIPTION
A	87-067-589-010	V+1.4-1.4(B) N LOCK
B	87-261-501-310	V+1.4-1.6(B)
C	87-067-528-010	VT+1.4-2 HL
D	87-067-751-010	VT+1.4-2.5(B)
E	87-067-384-010	VT+1.4-3.5 HL
F	87-231-501-310	Q+1.4-1.6(B)
G	87-067-359-010	S-SCREW +1.4-2.5(B)
H	87-067-394-010	S-SCREW +1.4-2.5(B)
I	87-067-738-010	HINGE SCREW 1.4-1(B) N

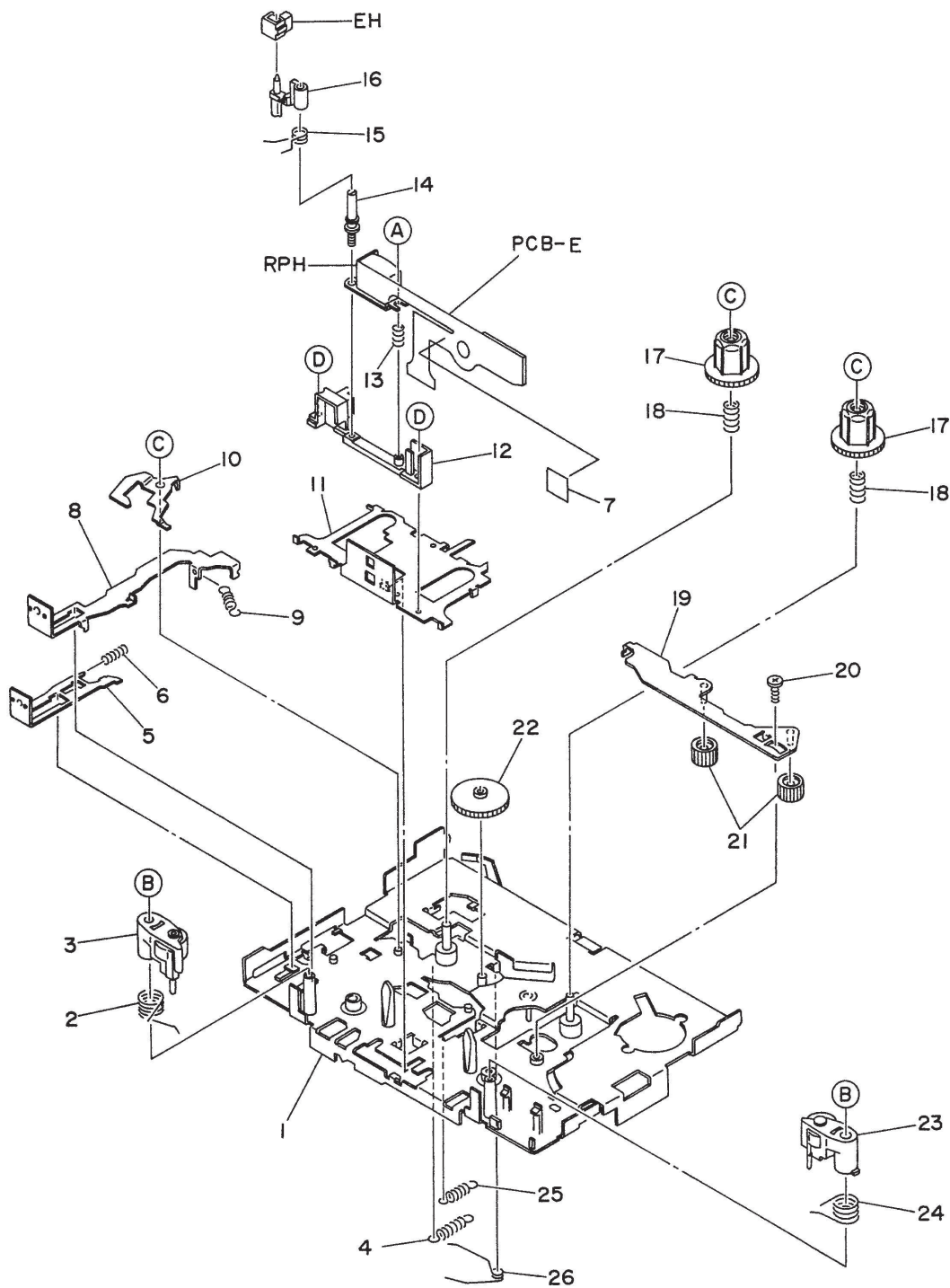


MECHANICAL PARTS LIST

PART NO. CHANGED TO	REF. NO.	PART NO.	DESCRIPTION	COMMON MODEL	Q. TY
1-1	★	81-HJ4-006-010	KNOB, SLIDE SPEAKER [B]	*	1
1-1	★	81-HJ4-017-010	KNOB, SLIDE SPEAKER [S]	*	1
1-2	★	81-HJ4-005-010	KNOB, SLIDE BAND	*	1
1-3	★	81-HJ4-004-010	KNOB, SLIDE DSL	*	1
1-4		81-HJ4-001-010	LID, CASSETTE [B]	*	1
1-4		81-HJ4-013-010	LID, CASSETTE [S]	*	1
1-5	★	81-HJ4-213-010	CUSHION, 5-2.5-2	*	1
1-6	★	81-HJ4-207-010	SHEET, SPEAKER	*	1
1-7	★	81-HJ4-204-110	SHEET, INSULATION	*	1
1-8	★	81-HJ4-202-010	HOLDER CASSETTE ASSY	*	1
1-9		---	LABEL, F. STEP		1
1-10	★	84-462-063-110	FRAME, CENTER [B]		1
1-10	★	84-HJ4-016-010	FRAME, CENTER [S]		1
1-11	★	81-HJ4-010-010	PLATE, SIDE [B]	*	1
1-11	★	81-HJ4-020-010	PLATE, SIDE [S]	*	1
1-12	★	80-HJ4-020-010	PANEL, DECORATIVE		1
1-13	★	84-463-209-110	P-SPRING, POP UP		1
1-14	★	84-518-012-010	PUSH-BUTTON, STOP		1
1-15	★	84-518-013-010	PUSH-BUTTON, REC		1
1-16	★	84-518-010-010	PUSH-BUTTON, FF		1
1-17	★	84-518-011-010	PUSH-BUTTON, REW		1
1-18	★	84-518-009-010	PUSH-BUTTON, PLAY [B]		1
1-18	★	81-HJ4-024-010	PUSH-BUTTON, PLAY [S]	*	1
1-19	★	84-518-002-110	PANEL, CONTROL [B]		1
1-19	★	81-HJ4-015-010	PANEL, CONTROL [S]	*	1
1-20	★	84-462-014-010	KNOB, DIRECTION [B]		1
1-20	★	84-518-031-010	KNOB, DIRECTION [S]		1
1-21	★	84-518-018-010	KNOB, SLIDE A [B]		4
1-21	★	84-518-029-010	KNOB, SLIDE A [S]		4
1-22	★	81-HJ4-214-010	SHEET, 15-5-0.35	*	1
1-23	★	80-HJ4-229-010	SHEET, JACK U		1
1-24	★	80-HJ4-213-210	HOLDER, JACK		1
1-25	★	84-462-220-010	G CUSHION, 6-6-2.7		1
1-26	★	84-462-204-010	HOLDER, JACK DC		1
1-27	★	09-027-818-010	BATTERY BOX ASSY	*	1
1-28	★	84-435-241-010	CUSHION, 5-6-3		1
1-29	★	84-462-018-010	BOX BATTERY A		1
1-30	★	80-HJ3-011-010	CABINET, REAR [B]		1
1-30	★	81-HJ4-014-010	CABINET, REAR [S]	*	1
1-31	★	81-HJ4-209-010	ADHESIVE SHEET, SPEC	*	1
1-32	★	81-HJ4-009-010	PLATE, SPEC [B]	*	1
1-32	★	81-HJ4-019-010	PLATE, SPEC [S]	*	1
1-33	★	80-HJ3-213-010	SHEET, 3.5-1.8		1
1-34	★	84-535-201-010	SHEET, 5-4		1
1-35		---	SPACER, CONTACT		1
1-36	★	84-462-241-010	SPACER, BOSS A		1
1-37	★	84-462-218-110	C-SPRING, MECHANISM EARTH A		1
1-38	★	84-462-207-010	SHEET, SENSOR		1
1-39	★	84-462-237-010	SHEET, PCB		1
1-40	★	80-HJ4-221-010	SHEET, 10-4-0.1		1
1-41	★	80-HJA-204-010	HOLDER, BAR ANTENNA N		1
1-42	★	80-HJ4-222-010	SHEET, 4-3-1.5		1

EXPLODED VIEW - 2

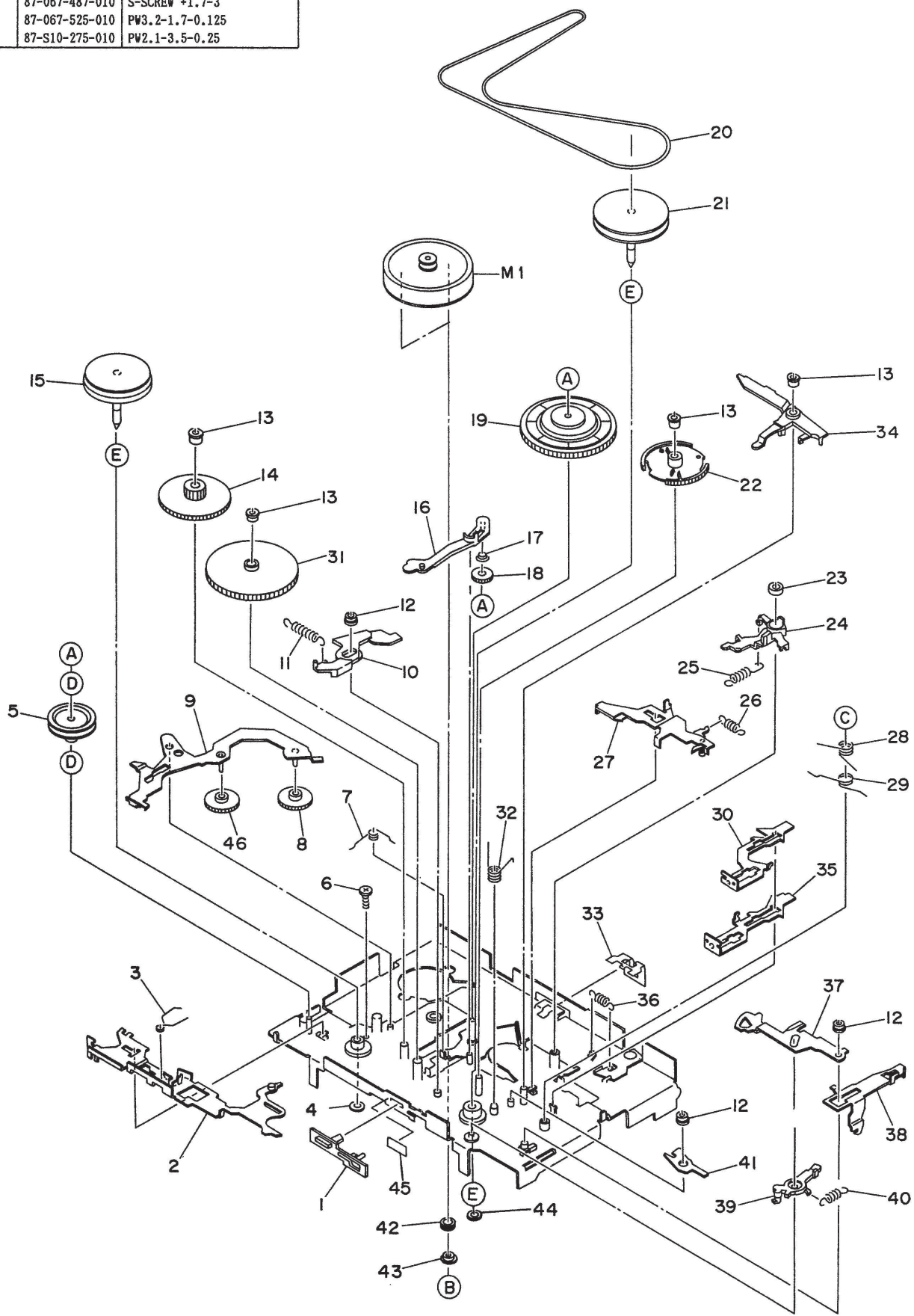
REF.NO.	PART NO.	DESCRIPTION
A	87-268-512-310	V+1.4-5.5(3)
B	87-067-517-010	S-SCREW M1.4-4
C	87-067-516-010	PW3-1.58-0.25
D	87-067-749-010	S-SCREW M1.4-2



PART NO. CHANGED TO	REF. NO.	PART NO.	DESCRIPTION	COMMON MODEL	Q. TY
2-1	★	86-541-500-710	OUTSERT ASSY BP		1
2-2	★	86-541-338-110	T-SPRING, PINCH RP		1
2-3		86-541-516-010	PINCH LEVER R ASSY		1
2-4	★	86-541-336-010	E-SPRING, REC		1
2-5	★	86-556-255-110	PLATE, STOP		1
2-6	★	86-541-329-010	C-SPRING, STOP		1
2-7	★	86-541-421-010	MYLAR, FLEXBLE		1
2-8	★	86-541-497-010	PLATE, REC B		1
2-9	★	86-541-312-110	E-SPRING, REC LOCK		1
2-10	★	86-541-277-110	LEVER, REC LOCK		1
2-11	★	86-541-260-910	CHASSIS, ACTUATING		1
2-12	★	86-541-283-110	GUIDE, TAPE		1
2-13	★	86-541-318-110	C-SPRING, AZIMUTH		1
2-14	★	86-541-369-010	SCREW, EH M1.4		1
2-15	★	86-541-344-010	T-SPRING, EH LEVER		1
2-16	★	86-541-287-310	LEVER, EH		1
2-17	★	86-541-236-010	GEAR, REEL PLATFORM		2
2-18	★	86-541-328-110	C-SPRING, REEL PLATFORM		2
2-19	★	86-541-509-410	PLATE FR ASSY		1
2-20	★	86-541-519-010	SCREW, FR		1
2-21	★	86-541-520-010	GEAR, FR 2		2
2-22	★	86-541-239-010	GEAR, REW		1
2-23		86-541-515-010	PINCH LEVER F ASSY		1
2-24	★	86-541-314-110	T-SPRING, PINCH FR		1
2-25	★	86-541-331-010	T-SPRING, ACTUATING		1
2-26	★	86-541-347-210	T-SPRING, FR LEVER		1

EXPLODED VIEW - 3

REF.NO.	PART NO.	DESCRIPTION
A	87-067-447-010	PW3-1.215-0.25
B	87-233-526-310	Q+1.7-2.8(1)
C	87-067-487-010	S-SCREW +1.7-3
D	87-067-525-010	PW3.2-1.7-0.125
E	87-S10-275-010	PW2.1-3.5-0.25



PART NO. CHANGED TO	REF. NO.	PART NO.	DESCRIPTION	COMMON MODEL	Q. TY
3-1	★	84-518-019-010	KNOB, DIRECTION MODE		1
3-2	★	86-541-222-710	PLATE PINCH SELECT ASSY		1
3-3	★	86-541-320-610	T-SPRING, PLAY LEVER		1
3-4	★	87-067-605-010	SHEET, SOMA 3.5-1.45-0.3		1
3-5	★	86-541-235-110	PULLEY, RELAY B		1
3-6	★	86-541-383-110	SCREW, FR		2
3-7	★	86-541-334-210	T-SPRING, AUTO LEVER		1
3-8	★	86-541-242-310	GEAR, PLAY		2
3-9	★	86-541-479-310	LEVER, PLAY ASSY M		1
3-10	★	86-541-288-410	LEVER, MODE SELECT		1
3-11	★	86-541-341-010	E-SPRING, MODE SELECT		1
3-12	★	86-541-376-110	COLLAR, PW-BOARD P		3
3-13	★	86-541-367-010	COLLAR, PW-BOARD J		4
3-14	★	86-541-240-010	GEAR, SLOW-DOWN		1
3-15	★	86-541-481-210	FLYWHEEL FWD ASSY		1
3-16	★	86-541-285-110	LEVER, AUTO		1
3-17	★	86-541-325-010	C-SPRING, AUTO GEAR		1
3-18	★	86-541-521-010	GEAR, AUTO		1
3-19	★	86-541-517-010	GEAR CLUTCH ASSY		1
3-20		86-541-371-010	BELT, B1		1
3-21		86-541-482-310	FLYWHEEL ASSY RVS		1
3-22	★	86-541-238-510	GEAR, CAM		1
3-23	★	84-462-208-010	SPACER, BOSS		1
3-24	★	86-541-291-110	LEVER, REC EJECT BR		1
3-25	★	86-541-297-210	E-SPRING, REC EJECT		1
3-26	★	86-541-332-110	E-SPRING, PLATE LOCK		1
3-27	★	86-541-223-310	PLATE EJECT ASSY A		1
3-28	★	86-541-349-010	T-SPRING, FR BUTTON		1
3-29	★	86-541-339-010	T-SPRING, TRIGGER		1
3-30	★	86-541-495-010	PLATE, REW		1
3-31	★	86-541-237-110	GEAR, AUTO CAM		1
3-32	★	86-541-345-210	T-SPRING, SELECT CAM		1
3-33	★	86-541-323-010	P-SPRING, CASSETTE SUPPORT		1
3-34	★	86-541-284-310	LEVER, TRIGGER		1
3-35	★	86-541-494-010	PLATE, FF		1
3-36	★	86-541-330-010	E-SPRING, REC BLOCKING		1
3-37	★	86-541-522-110	LEVER, EH RESET		1
3-38	★	86-541-263-210	PLATE, EJECT		1
3-39	★	86-541-286-110	LEVER, DIRECTION		1
3-40	★	86-541-343-010	E-SPRING, DIRECTION		1
3-41	★	86-541-273-110	LEVER, TRIGGER LOCK		1
3-42	★	86-511-445-010	G CUSHION, MOTOR		2
3-43	★	86-541-449-010	COLLAR, MOTOR B		2
3-44	★	87-034-739-010	SHEET, SOMA 1.63-3.2-0.3		1
3-45	★	86-541-523-010	SHEET, KNOB DIRECTION MODE		1
3-46	★	86-541-477-210	GEAR, PLAY M		1
	★	09-027-568-010	COLLAR, PW-BOARD (PJ) KIT		1

■ ACCESSORIES/PACKAGE LIST

PART NO. CHANGED TO	REF. NO.	PART NO.	DESCRIPTION	COMMON MODEL	Q,TY
	1	★81-HJ4-901-010	INSTRUCTION BOOKLET, EX (H,U,C,E,Z,K)	※	1
	2	★81-HJ4-907-010	INSTRUCTION BOOKLET, EX (DH1)	※	1
	3	★81-HJ4-951-010	CARRING CASE EX (H,U,C,E,Z,K)	※	1
	4	★80-HJ4-951-010	CARRING CASE EX (DH1)		1
	5	★87-047-100-010	PB-3Y		1
	6	★87-042-055-019	AC ADAPTOR,AC-207E (E,Z)		1
	7	★87-042-053-119	AC ADAPTOR,AC-207H (H,DH1)		1
	8	★87-042-056-010	AC ADAPTOR,AC-207K (K)		1
	9	★87-042-054-119	AC ADAPTOR,AC-207U (U)		1
	10	★87-042-057-119	AC ADAPTOR,AC-207C (C)		1
	11	★87-048-198-010	HP-19N (H1,K1,E1,DH1)		1
	12	★87-048-213-010	HP-M270 (H,U,C,K,Z)		1
	13	87-041-057-010	MIC,CM-S30		1
	14	★09-027-818-010	BATTERY BOX ASSY [B]		1