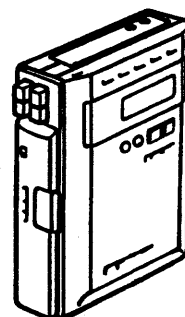


AIWA®

HS-J505

SERVICE MANUAL



STEREO RADIO CASSETTE RECORDER

• BASIC TAPE MECHANISM : $\alpha - 1$

• TYPE. AH1,AU,AC,AE,AE1,AK1,AZ

SPECIFICATIONS

Frequency range:

FM: 87.5/87.5 — 108.1/108 MHz
(200/50 kHz STEP)
AM: 530/531 — 1710/1602kHz
(10/9 kHz STEP)

Maximum output:

10mW + 10mW (EIAJ/16 Ω)

Power source:

Battery DC 2V, rechargeable lead
battery (PB-3) $\times$ 1
Battery DC3V, LR-03 (UM-4, AAA,
R03) $\times$ 2
Domestic AC power (using AC adaptor)

Maximum dimensions (W $\times$ H $\times$ D):

79.8 $\times$ 109.5 $\times$ 29.3mm

Weight

215g (without batteries)

- 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.

AIWA Co., Ltd.

Tokyo Japan

Printed in Japan

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 2 screws (C) and release two Hooks, then take out the "Frame, Center" in the direction of the arrow ②.

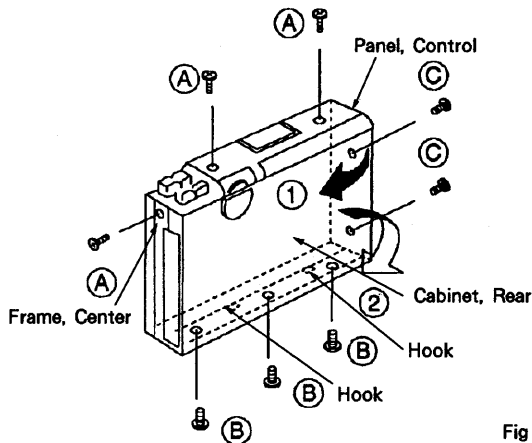


Fig - 1

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

- 1) Remove 3 screws (A×2, B×1) and remove the "Lid, Cassette".

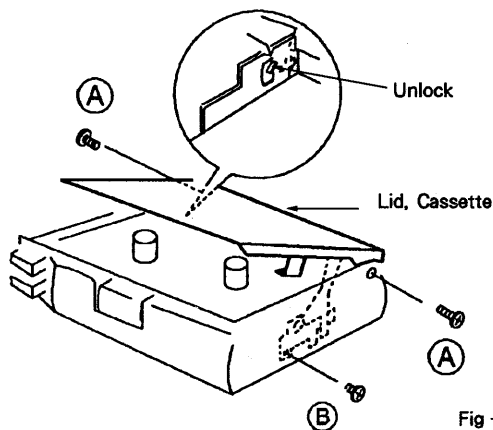


Fig - 2

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

- 1) Remove 2 screws (A).

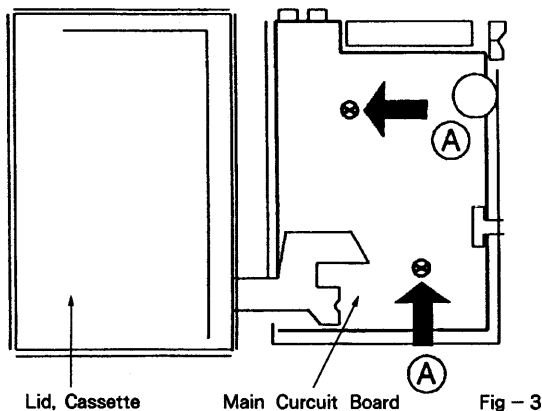


Fig - 3

4. "Holder, Cassette" Removal (See Figure - 4)

- 1) Remove 5 screws (A).

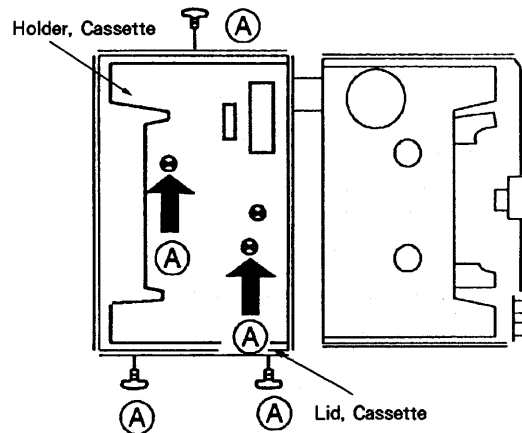


Fig - 4

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

- 1) Remove 2 screws (A).

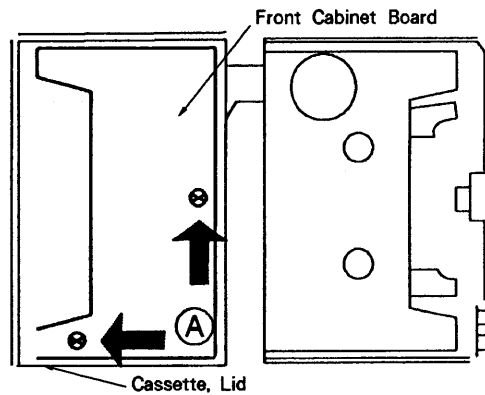


Fig - 5

6. "Button, PLAY" Removal (See Figure - 6)

- 1) Remove the "Panel, Control" and "Cabinet, Rear".
- 2) Move the "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.

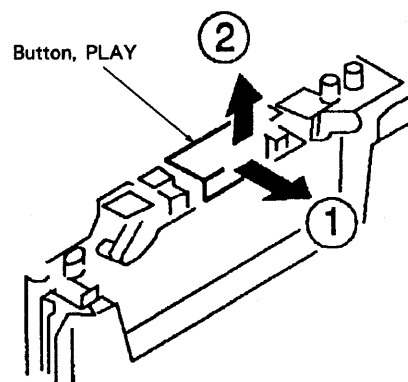


Fig - 6

ELECTRICAL MAIN PARTS LIST

REF.NO.	PART NO.	DESCRIPTION	REF.NO.	PART NO.	DESCRIPTION
=== IC ===			C23	*87-012-286-010	CAP,CHIP SS 0.01-25 B
	87-001-351-010	IC,AN6612S	C24	*87-010-243-010	CAP,CHIP TANTALUM 10-4
	87-001-808-010	IC,ASP5410	C25	*87-012-286-010	CAP,CHIP SS 0.01-25 B
	87-001-147-010	IC,BA1102FS	C26	*87-010-759-010	CAP,CHIP SS 0.1-25 F
	87-001-373-010	IC,CXA1278N	C27	*87-012-286-010	CAP,CHIP SS 0.01-25 B
	87-020-234-010	IC,TA7688F(S)	C28	*87-012-253-010	CAP,CHIP SS 33P-50 UJ
	87-001-145-010	IC,TA8126F	C29	*87-012-272-010	CAP,CHIP SS 680P-50 B
	87-001-548-010	IC,TA8132AF	C30	*87-012-282-010	CAP,CHIP SS 4700P-50 B
	87-001-931-010	IC,TA8152AFN	C30	*87-012-286-010	CAP,CHIP SS 0.01-25 B
	87-001-550-010	IC,TC7S04F	C31	*87-012-286-010	CAP,CHIP SS 0.01-25 B
	87-001-585-010	IC,TC7S32F	C32	*87-010-787-010	CAP,CHIP SS 0.022-25 B
	87-001-972-010	IC,TC9308AF-029	C33	*87-010-424-010	CAP,CHIP TANTALUM 4.7-4
	87-001-151-010	IC,TD6134F1	C34	*87-012-282-010	CAP,CHIP SS 4700P-50 B
=== TRANSISTOR ===			C35	*87-010-668-010	CAP,CHIP ELECT 220-4 MV
	89-508-805-010	FET,2SK880GR	C36	*87-010-668-010	CAP,CHIP ELECT 220-4 MV
	89-508-804-010	FET,2SK880Y	C37	*87-010-668-010	CAP,CHIP ELECT 220-4 MV
	89-508-824-010	FET,2SK882Y	C38	*87-010-503-010	CAP,ELECT 220-4 GAS
	89-112-134-010	TRANSISTOR,2SA1213Y	C39	*87-012-286-010	CAP,CHIP SS 0.01-25 B
	89-113-625-010	TRANSISTOR,2SA1362GR	C41	*87-012-273-010	CAP,CHIP SS 820P-50 B
	89-115-864-010	TRANSISTOR,2SA1586Y	C42	*87-010-759-010	CAP,CHIP SS 0.1-25 F
	89-115-884-010	TRANSISTOR,2SA1588Y	C43	*87-012-286-010	CAP,CHIP SS 0.01-25 B
	89-341-165-010	TRANSISTOR,2SC4116GR	C44	*87-012-278-010	CAP,CHIP SS 2200P-50 B
	89-342-132-010	TRANSISTOR,2SC4213B	C45	*87-012-360-010	CAP,CHIP S 1-10 FZ
	89-342-153-010	TRANSISTOR,2SC4215(O)	C46	*87-012-360-010	CAP,CHIP S 1-10 FZ
	87-026-352-010	TRANSISTOR,DTC144TU	C47	*87-010-759-010	CAP,CHIP SS 0.1-25 F
	87-026-466-010	TRANSISTOR,HN1C01F(Y)	C48	*87-010-830-010	CAP,CHIP SS 0.068-16 F
	87-026-358-010	TRANSISTOR,IMD6	C49	*87-010-759-010	CAP,CHIP SS 0.1-25 F
	87-026-407-010	TRANSISTOR,IMX2	C50	*87-012-280-010	CAP,CHIP SS 3300P-50 B
	87-026-413-010	TRANSISTOR,RN1305	C51	*87-010-784-010	CAP,CHIP SS 0.012-25 B
	87-026-417-010	TRANSISTOR,RN1310	C52	*87-010-784-010	CAP,CHIP SS 0.012-25 B
	87-026-476-010	TRANSISTOR,RN1610	C53	*87-010-667-010	CAP,CHIP ELECT 100-4 MV
	87-026-428-010	TRANSISTOR,RN2310	C55	*87-012-286-010	CAP,CHIP SS 0.01-25 B
	87-026-479-010	TRANSISTOR,RN2610	C56	*87-012-286-010	CAP,CHIP SS 0.01-25 B
	87-026-480-010	TRANSISTOR,RN4605	C57	*87-010-759-010	CAP,CHIP SS 0.1-25 F
	87-026-482-010	TRANSISTOR,RN4610	C58	*87-012-286-010	CAP,CHIP SS 0.01-25 B
			C59	*87-012-199-010	CAP,CHIP SS 220P-50 CH
=== DIODE ===			C60	*87-012-172-010	CAP,CHIP SS 10P-50 CH
	87-020-339-010	DIODE,CHIP 1SS226	C61	*87-012-337-010	CAP,CHIP SS 56P-50 CH
	87-001-165-010	DIODE,CHIP 1SS300	C62	*87-010-759-010	CAP,CHIP SS 0.1-25 F
	87-001-166-010	DIODE,CHIP 1SS301	C63	*87-012-269-010	CAP,CHIP SS 390P-50 B
	87-001-167-010	DIODE,CHIP 1SS302	C64	*87-012-286-010	CAP,CHIP SS 0.01-25 B
	87-001-221-010	DIODE,CHIP 1SS319	C65	*87-012-193-010	CAP,CHIP SS 82P-50 CH
	87-001-553-010	DIODE,CHIP 1SS322	C101	*87-010-215-010	CAP,CHIP TANTALUM 0.047-35
			C102	*87-010-215-010	CAP,CHIP TANTALUM 0.047-35
=== MAIN CIRCUIT BOARD SECTION ===			C103	*87-012-284-010	CAP,CHIP SS 6800P-50 B
BPF1	*87-008-406-010	BPF GFMB1	C104	*87-012-284-010	CAP,CHIP SS 6800P-50 B
C2	*87-010-757-010	CAP,CHIP SS 0.047-25 F	C105	*87-012-278-010	CAP,CHIP SS 2200P-50 B
C4	*87-012-191-010	CAP,CHIP SS 68P-50 CH	C106	*87-012-278-010	CAP,CHIP SS 2200P-50 B
C5	*87-012-286-010	CAP,CHIP SS 0.01-25 B	C107	*87-010-784-010	CAP,CHIP SS 0.012-25 B
C7	*87-010-757-010	CAP,CHIP SS 0.047-25 F	C108	*87-010-784-010	CAP,CHIP SS 0.012-25 B
C9	*87-012-184-010	CAP,CHIP SS 33P-50 CH	C109	*87-010-243-010	CAP,CHIP TANTALUM 10-4
C11	*87-012-162-010	CAP,CHIP SS 1P-50 CH	C110	*87-010-243-010	CAP,CHIP TANTALUM 10-4
C12	*87-012-337-010	CAP,CHIP SS 56P-50 CH	C111	*87-010-787-010	CAP,CHIP SS 0.022-25 B
C13	*87-012-198-010	CAP,CHIP SS 180P-50 CH	C112	*87-010-787-010	CAP,CHIP SS 0.022-25 B
C15	*87-012-282-010	CAP,CHIP SS 4700P-50 B	C113	*87-010-452-010	CAP,CHIP 1-16 F
C16	*87-012-271-010	CAP,CHIP SS 560P-50 B	C114	*87-010-452-010	CAP,CHIP 1-16 F
C17	*87-012-275-010	CAP,CHIP SS 1200P-50 B	C115	*87-012-276-010	CAP,CHIP SS 1500P-50 B
C18	*87-010-746-010	CAP,CHIP TANTALUM 10-4	C116	*87-012-276-010	CAP,CHIP SS 1500P-50 B
C19	*87-012-286-010	CAP,CHIP SS 0.01-25 B	C117	*87-010-452-010	CAP,CHIP 1-16 F
C20	*87-010-757-010	CAP,CHIP SS 0.047-25 F	C118	*87-010-452-010	CAP,CHIP 1-16 F
C21	*87-012-286-010	CAP,CHIP SS 0.01-25 B	C119	*87-010-243-010	CAP,CHIP TANTALUM 10-4
C22	*87-010-787-010	CAP,CHIP SS 0.022-25 B	C120	*87-010-243-010	CAP,CHIP TANTALUM 10-4
			C121	*87-010-243-010	CAP,CHIP TANTALUM 10-4
			C122	*87-010-746-010	CAP,CHIP TANTALUM 10-4

REF.NO.	PART NO.	DESCRIPTION	REF.NO.	PART NO.	DESCRIPTION
C123	*87-012-199-010	CAP,CHIP SS 220P-50 CH	C901	*87-010-640-010	CAP,CHIP TANTALUM 22-4
C124	*87-012-286-010	CAP,CHIP SS 0.01-25 B	C902	*87-010-664-010	CAP,CHIP ELECT 47-4 MV
C125	*87-012-286-010	CAP,CHIP SS 0.01-25 B	C903	*87-012-360-010	CAP,CHIP S 1-10 FZ
C126	*87-012-276-010	CAP,CHIP SS 1500P-50 B	C904	*87-012-360-010	CAP,CHIP S 1-10 FZ
C127	*87-010-424-010	CAP,CHIP TANTALUM 4.7-4	CF1	*87-008-455-010	FILTER KIT 10.7M
C128	*87-012-286-010	CAP,CHIP SS 0.01-25 B	CF2	+++	FILTER KIT 10.7M
C129	*87-012-280-010	CAP,CHIP SS 3300P-50 B	CF4	+++	FILTER KIT 10.7M
C131	*87-012-272-010	CAP,CHIP SS 680P-50 B	CF3	*87-008-396-010	FILTER,CF 450KHZ
C132	*87-012-272-010	CAP,CHIP SS 680P-50 B	CF5	*87-030-182-010	CERALOCK CSB456F-FBL18
C133	*87-012-274-010	CAP,CHIP SS 1000P-50 B	CP1	87-026-248-010	PHOTO SENSOR,ON2270Q2
C134	*87-012-274-010	CAP,CHIP SS 1000P-50 B	D2	87-001-708-010	DIODE,VARICAP 1SV228
C135	*87-012-274-010	CAP,CHIP SS 1000P-50 B	D4	87-001-708-010	DIODE,VARICAP 1SV228
C136	*87-012-274-010	CAP,CHIP SS 1000P-50 B	D5	*87-026-435-010	DIODE,VARICAP KV1560
C137	*87-010-828-010	CAP,CHIP SS 0.033-25 F	J101	87-009-252-010	JACK,3.5 R(L)(MIC)
C138	*87-010-828-010	CAP,CHIP SS 0.033-25 F	J103	87-049-859-010	JACK,DC REFLOW BLK(DC2V)
C139	*87-012-282-010	CAP,CHIP SS 4700P-50 B	L2	*80-HJ3-615-010	COIL,RF FM Y
C140	*87-012-282-010	CAP,CHIP SS 4700P-50 B	L4	*80-HJ3-616-010	COIL,OSC FM Y
C141	*87-010-424-010	CAP,CHIP TANTALUM 4.7-4	L5	*87-006-168-010	COIL,IFT FM
C142	*87-010-424-010	CAP,CHIP TANTALUM 4.7-4	L6	*84-462-618-010	COIL,LOADING
C143	*87-012-286-010	CAP,CHIP SS 0.01-25 B	L8	*87-003-226-010	COIL,100UH
C144	*87-012-286-010	CAP,CHIP SS 0.01-25 B	L9	*87-008-420-010	IFT 450K MW
C145	*87-010-828-010	CAP,CHIP SS 0.033-25 F	L10	*87-005-262-010	COIL,10UH
C146	*87-010-828-010	CAP,CHIP SS 0.033-25 F	L101	*87-007-270-010	COIL,OSC BIAS
C147	*87-010-759-010	CAP,CHIP SS 0.1-25 F	L102	*87-003-218-010	COIL,1UH
C148	*87-010-196-010	CAP,CHIP S 0.1-25 F	R308	*87-022-042-010	RES,CHIP M/F 0.51-1/8
C149	*87-010-673-010	CAP,CHIP ELECT 100-2	R314	*87-022-043-010	RES,CHIP M/F 8.2K-1/8
C150	*87-010-668-010	CAP,CHIP ELECT 220-4 MV	S1	87-036-123-010	SLIDE SW(FM MODE)
C151	*87-012-360-010	CAP,CHIP S 1-10 FZ	S102	87-036-082-010	SLIDE SW(REC/PB)
C152	*87-012-360-010	CAP,CHIP S 1-10 FZ	S103	87-036-123-010	SLIDE SW(TAPE)
C153	*87-010-757-010	CAP,CHIP SS 0.047-25 F	S104	87-036-123-010	SLIDE SW(DOLBY NR)
C154	*87-010-757-010	CAP,CHIP SS 0.047-25 F	S301	87-036-123-010	SLIDE SW(PAUSE)
C155	*87-010-757-010	CAP,CHIP SS 0.047-25 F	S302	87-036-083-010	PUSH SW(POWER)
C156	*87-010-757-010	CAP,CHIP SS 0.047-25 F	SFR101	*87-024-288-010	SFR 10K
C157	*87-012-270-010	CAP,CHIP SS 470P-50 B	SFR102	*87-024-288-010	SFR 10K
C158	*87-012-270-010	CAP,CHIP SS 470P-50 B	SFR301	*87-024-076-010	SFR 1K
C159	*87-012-360-010	CAP,CHIP S 1-10 FZ	TC2	*87-011-189-010	CAP,TRIMMER CTZ-10A
C160	*87-012-360-010	CAP,CHIP S 1-10 FZ	TC3	*87-011-189-010	CAP,TRIMMER CTZ-10A
C161	*87-010-787-010	CAP,CHIP SS 0.022-25 B	VR201	87-024-142-010	VOLUME,20KC(VOLUME)
C162	*87-010-787-010	CAP,CHIP SS 0.022-25 B	=== CONTROL CIRCUIT BOARD SECTION ===		
C163	*87-012-270-010	CAP,CHIP SS 470P-50 B	BAT1	*84-462-614-010	BATT CL
C164	*87-012-270-010	CAP,CHIP SS 470P-50 B	C501	*87-012-184-010	CAP,CHIP SS 33P-50 CH
C167	*87-010-662-010	CAP,CHIP ELECT 22-6.3	C502	*87-012-170-010	CAP,CHIP SS 8P-50 CH
C168	*87-010-668-010	CAP,CHIP ELECT 220-4 MV	C503	*87-012-286-010	CAP,CHIP SS 0.01-25 B
C169	*87-010-664-010	CAP,CHIP ELECT 47-4 MV	C504	*87-010-759-010	CAP,CHIP SS 0.1-25 F
C171	*87-010-668-010	CAP,CHIP ELECT 220-4 MV	C505	*87-010-759-010	CAP,CHIP SS 0.1-25 F
C172	*87-010-828-010	CAP,CHIP SS 0.033-25 F	C506	*87-012-286-010	CAP,CHIP SS 0.01-25 B
C175	*87-010-452-010	CAP,CHIP 1-16 F	C508	*87-012-199-010	CAP,CHIP SS 220P-50 CH
C176	*87-010-452-010	CAP,CHIP 1-16 F	C509	*87-012-197-010	CAP,CHIP SS 150P-50 CH
C177	*87-010-674-010	CAP,CHIP ELECT 220-2 MV	C510	*87-010-787-010	CAP,CHIP SS 0.022-25 B
C178	*87-010-674-010	CAP,CHIP ELECT 220-2 MV	C511	*87-010-505-010	CAP,CHIP TANTALUM 1-16
C179	*87-010-452-010	CAP,CHIP 1-16 F	C512	*87-012-195-010	CAP,CHIP SS 100P-50 CH
C180	*87-010-452-010	CAP,CHIP 1-16 F	C513	*87-012-360-010	CAP,CHIP S 1-10 FZ
C301	*87-012-286-010	CAP,CHIP SS 0.01-25 B	C514	*87-012-286-010	CAP,CHIP SS 0.01-25 B
C302	*87-012-360-010	CAP,CHIP S 1-10 FZ	C515	*87-012-199-010	CAP,CHIP SS 220P-50 CH
C303	*87-010-452-010	CAP,CHIP 1-16 F	C516	*87-012-195-010	CAP,CHIP SS 100P-50 CH
C304	*87-010-424-010	CAP,CHIP TANTALUM 4.7-4	C517	*87-012-142-010	CAP,CHIP S 0.33-16 F
C306	*87-010-746-010	CAP,CHIP TANTALUM 10-4	C518	*87-012-172-010	CAP,CHIP SS 10P-50 CH
C307	*87-015-934-010	CAP,CHIP TANTALUM 2.2-4	C519	*87-012-276-010	CAP,CHIP SS 1500P-50 B
C308	*87-010-452-010	CAP,CHIP 1-16 F	C520	*87-012-286-010	CAP,CHIP SS 0.01-25 B
C309	*87-010-424-010	CAP,CHIP TANTALUM 4.7-4	C521	*87-010-746-010	CAP,CHIP TANTALUM 10-4
C310	*87-010-668-010	CAP,CHIP ELECT 220-4 MV	C522	*87-010-424-010	CAP,CHIP TANTALUM 4.7-4
C311	*87-012-195-010	CAP,CHIP SS 100P-50 CH	C701	*87-012-360-010	CAP,CHIP S 1-10 FZ
C312	*87-010-196-010	CAP,CHIP S 0.1-25 F	C702	*87-012-360-010	CAP,CHIP S 1-10 FZ
C313	*87-010-667-010	CAP,CHIP ELECT 100-4 MV			

REF.NO.	PART NO.	DESCRIPTION
C703	*87-010-746-010	CAP,CHIP TANTALUM 10-4
C704	*87-010-424-010	CAP,CHIP TANTALUM 4.7-4
C705	*87-012-286-010	CAP,CHIP SS 0.01-25 B
C706	*87-012-286-010	CAP,CHIP SS 0.01-25 B
C707	*87-010-757-010	CAP,CHIP SS 0.047-25 F
C708	*87-010-757-010	CAP,CHIP SS 0.047-25 F
C709	*87-010-757-010	CAP,CHIP SS 0.047-25 F
C710	*87-010-757-010	CAP,CHIP SS 0.047-25 F
C711	*87-010-757-010	CAP,CHIP SS 0.047-25 F
C712	*87-010-757-010	CAP,CHIP SS 0.047-25 F
C713	*87-012-191-010	CAP,CHIP SS 68P-50 CH
C714	*87-012-191-010	CAP,CHIP SS 68P-50 CH
C715	*87-012-360-010	CAP,CHIP S 1-10 FZ
C716	*87-012-360-010	CAP,CHIP S 1-10 FZ
C717	*87-015-934-010	CAP,CHIP TANTALUM 2.2-4
C718	*87-015-934-010	CAP,CHIP TANTALUM 2.2-4
C719	*87-012-142-010	CAP,CHIP S 0.33-16 F
C720	*87-012-142-010	CAP,CHIP S 0.33-16 F
C721	*87-010-424-010	CAP,CHIP TANTALUM 4.7-4
C722	*87-010-424-010	CAP,CHIP TANTALUM 4.7-4
C723	*87-012-273-010	CAP,CHIP SS 820P-50 B
C724	*87-012-273-010	CAP,CHIP SS 820P-50 B
C725	*87-012-360-010	CAP,CHIP S 1-10 FZ
D506	87-020-508-010	LED SLM-13VW(OPE/BATT)
L501	*87-003-231-010	COIL,S 1UH
L502	*87-006-173-010	COIL,DD 5CDL
LCD1	89-HJ3-611-010	LCD HS ASSY(DISPLAY)
S501	87-036-123-010	SLIDE SW(HOLD)
S502	87-036-123-010	SLIDE SW(9K/10K)
S503	87-036-145-010	SLIDE SW(TAPE/AM/FM)
S504	87-030-152-010	TACT SW(V/MIN)
S505	87-030-152-010	TACT SW(MEMORY/SET)
S506	87-030-152-010	TACT SW(AUTO PRESET)
S507	87-030-152-010	TACT SW(A/HOUR)
S508	87-030-152-010	TACT SW(PRESET/CLOCK1)
S509	87-030-152-010	TACT SW(PRESET/CLOCK2)
S510	87-030-152-010	TACT SW(PRESET/CLOCK3)
S511	87-030-152-010	TACT SW(PRESET/CLOCK4)
S512	87-030-152-010	TACT SW(PRESET/CLOCK5)
S701	87-036-123-010	SLIDE SW(DSL)
X501	*87-030-180-010	XTAL KF-38R5 8A

=== REGULATOR CIRCUIT BOARD SECTION ===

C401	*84-439-620-010	CAP,ELECT 470-4
TM3	*80-HR4-207-010	TERMINAL ASSY 1.4

=== TERMINAL CIRCUIT BOARD SECTION ===

TM1	80-HF1-207-110	TERMINAL ASSY,1.4F
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=== HEAD CIRCUIT BOARD SECTION ===

	84-465-607-110	RPH ASSY(W/PCB-E)
PCB-E	84-462-612-110	FLEXIBLE CIRCUIT BOARD
RPH	84-465-608-010	HEAD RPH
S101	84-541-602-010	SLIDE SW(FWD/REV)

=== CONNECT-1 CIRCUIT BOARD SECTION ===

PCB-F	*84-462-603-010	CONNECT-1 CIRCUIT BOARD
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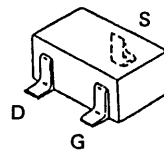
=== CONNECT-2 CIRCUIT BOARD SECTION ===

PCB-G	*80-HJ3-608-010	CONNECT-2 CIRCUIT BOARD
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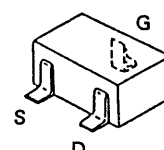
=== JACK CIRCUIT BOARD SECTION ===

PCB-H	*80-HJ4-616-010	JACK CIRCUIT BOARD
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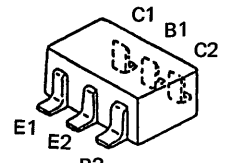
REF.NO.	PART NO.	DESCRIPTION
J102	87-009-248-010	JACK,3.5 BK(L)(PHONES)
=== VOLUME CIRCUIT BOARD SECTION ===		
VR701	80-HJ3-614-010	VOLUME 200KA ASSY(W/PCB-I)(BBE)
=== MISCELLANEOUS ===		
EH	86-541-601-110	E HEAD
L7	*84-462-617-010	BAR-ANT
M1	87-045-303-010	MOTOR(26FL-0611)



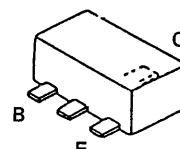
2SK882



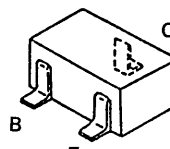
2SK880



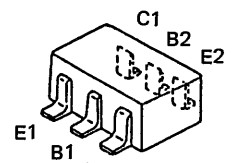
IMX2



2SA1213



2SA1362
2SA1586
2SA1588
2SC4116
2SC4213
2SC4215



HN1C01
RN1610
RN2610
RN4605
RN4610
IMD6

○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

⑧⑧ - □□□ - □□□

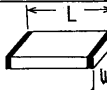
A
抵抗コード
Resistor code

桁表示
Figure

抵抗値
Value of resistor

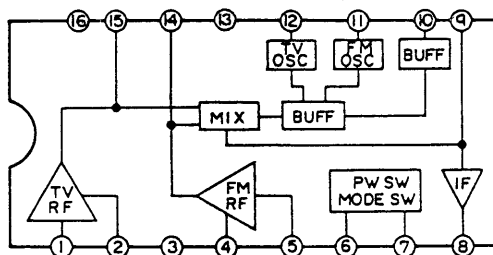
チップ抵抗

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

IC BLOCK DIAGRAM

IC,TA8152AFN



PRACTICAL SERVICE FIGURE

< RADIO SECTION >

Sensitivity :

(IHF THD 3%)

(S/N 10dB)

FM 13 ± 3dB (98.0MHz)

AM 54 ± 4dB (999kHz)

AM 54 ± 4dB (1000kHz) (U ONLY)

Intermediate frequency : FM 10.7MHz

AM 450kHz

FM stereo separation : FM 20 ± 4dB (1kHz)

< TAPE RECORDER SECTION >

Bias frequency :

54kHz

Erasing ratio :

More than 50dB

Wow & flutter :

Less than 0.45 % (RMS)

Pinch roller press :

135 ± 15g-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 :

54 ± 4dB (PB)

30 + 5dB (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 ± 4.0dB (NORMAL)

63Hz~10kHz ± 5.0dB

(CrO2, METAL)

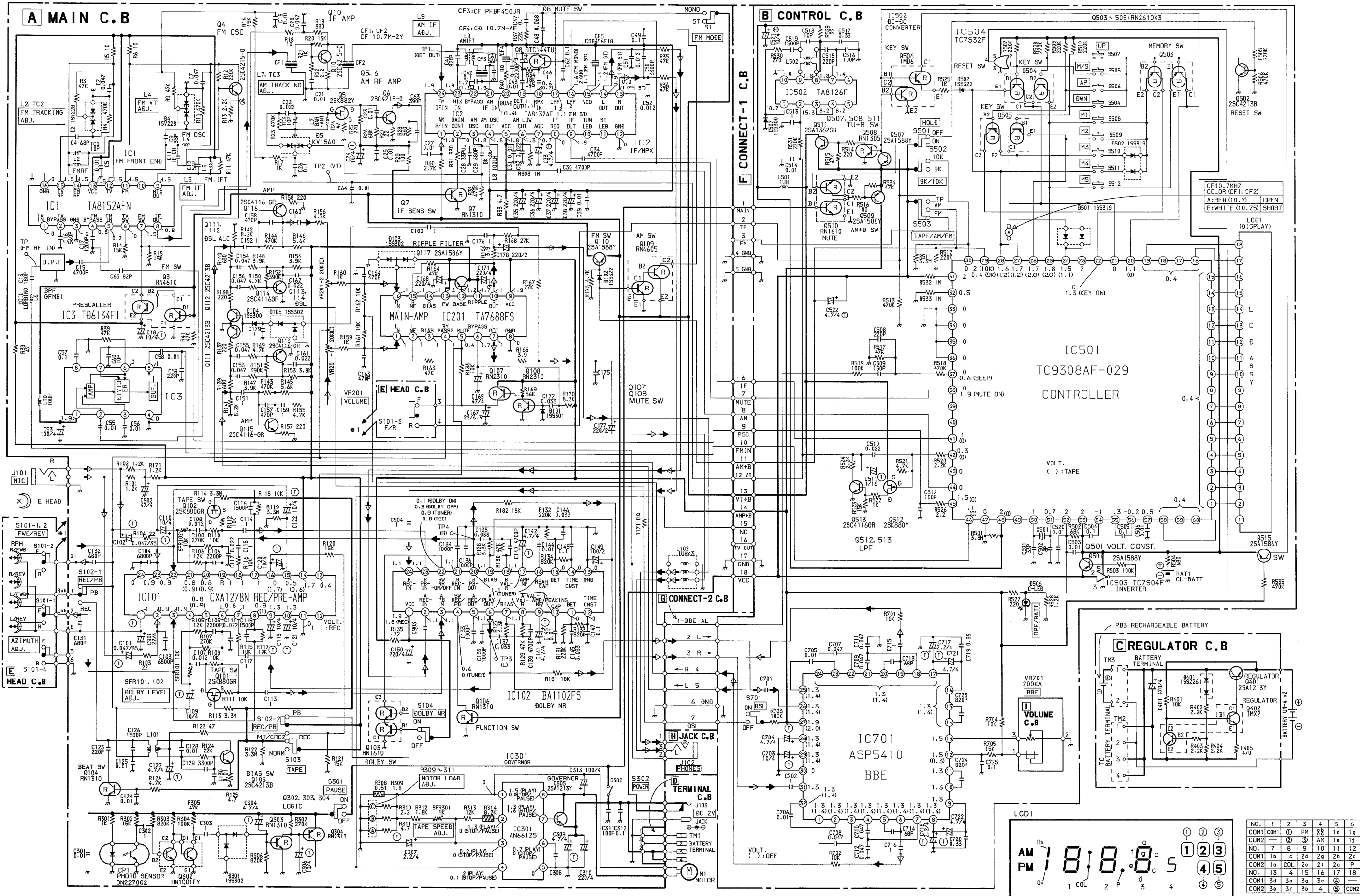
See the HS - J303/J900 for the IC description below

	HS - J505	HS - J303/J900
①	TC9308AF - 029	TC9308AF - 014

IC BLOCK DIAGRAM

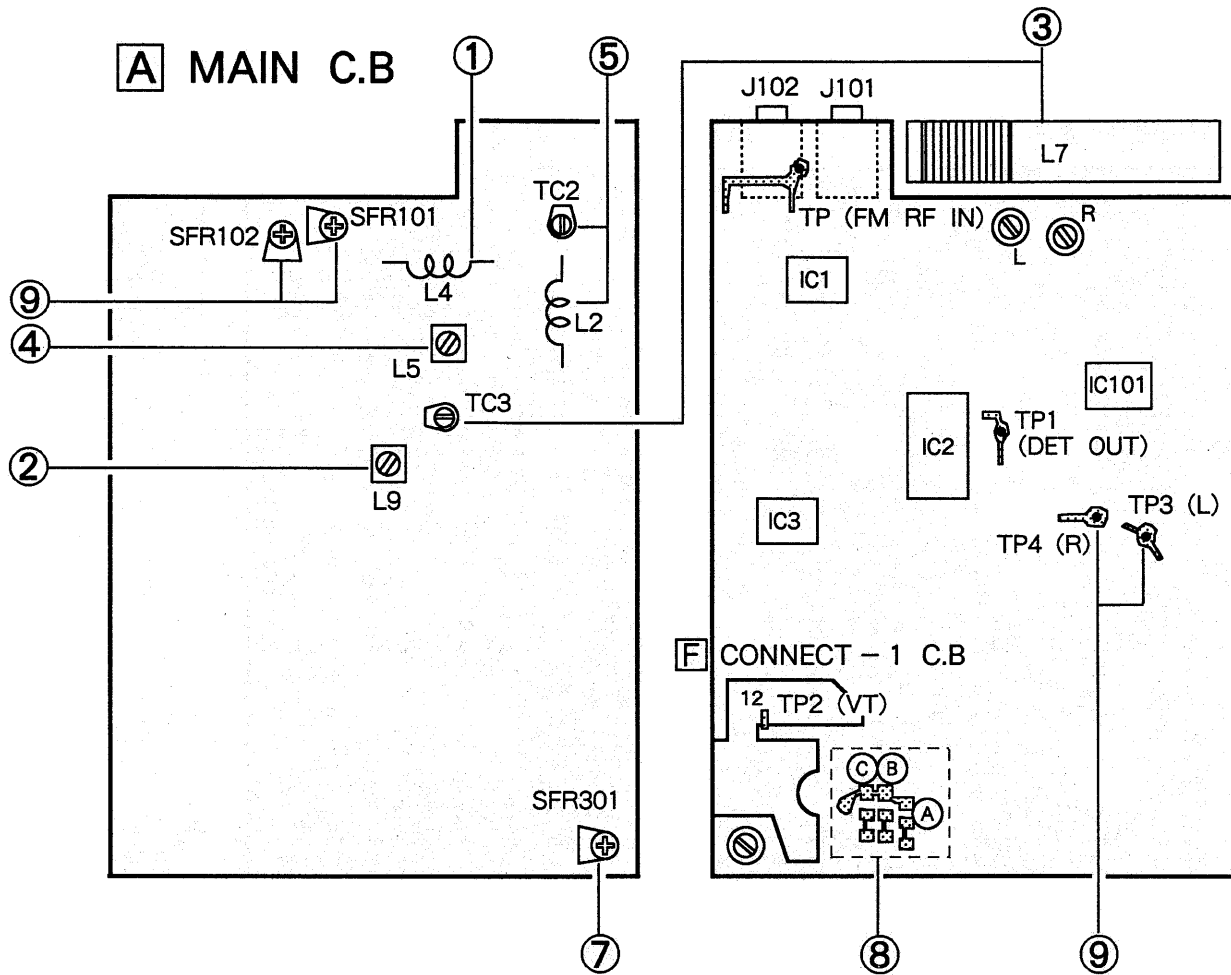
TA8132AF, CXA1278FS, TA7688FS, BA1102FS, AN6612S

Refer to the HS - J303/J900 service manual.





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 : TTS - 310 (TTA - 317E)
• 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

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

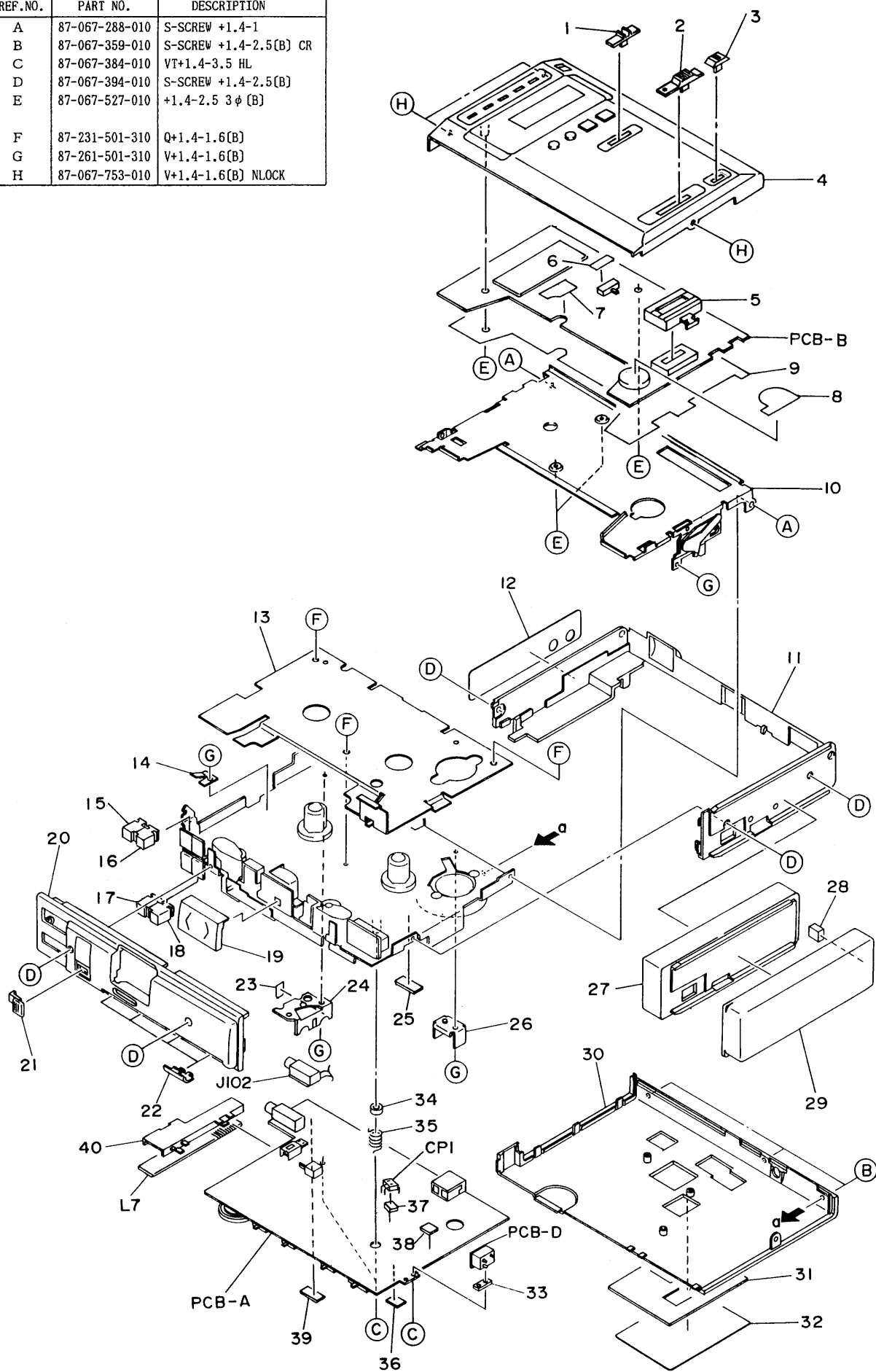
- Settings : • Test tape : TTS - 200 (TTA - 161, TCC - 130)
• Test point : TP3 (Lch), TP4 (Rch)
• Adjustment location : SFR101 (Lch)
SFR102 (Rch)

- 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 $100mV \pm 5mV$.

EXPLODED VIEW - 1

REF.NO.	PART NO.	DESCRIPTION
A	87-067-288-010	S-SCREW +1.4-1
B	87-067-359-010	S-SCREW +1.4-2.5(B) CR
C	87-067-384-010	VT+1.4-3.5 HL
D	87-067-394-010	S-SCREW +1.4-2.5(B)
E	87-067-527-010	+1.4-2.5 3φ (B)
F	87-231-501-310	Q+1.4-1.6(B)
G	87-261-501-310	V+1.4-1.6(B)
H	87-067-753-010	V+1.4-1.6(B) NLOCK

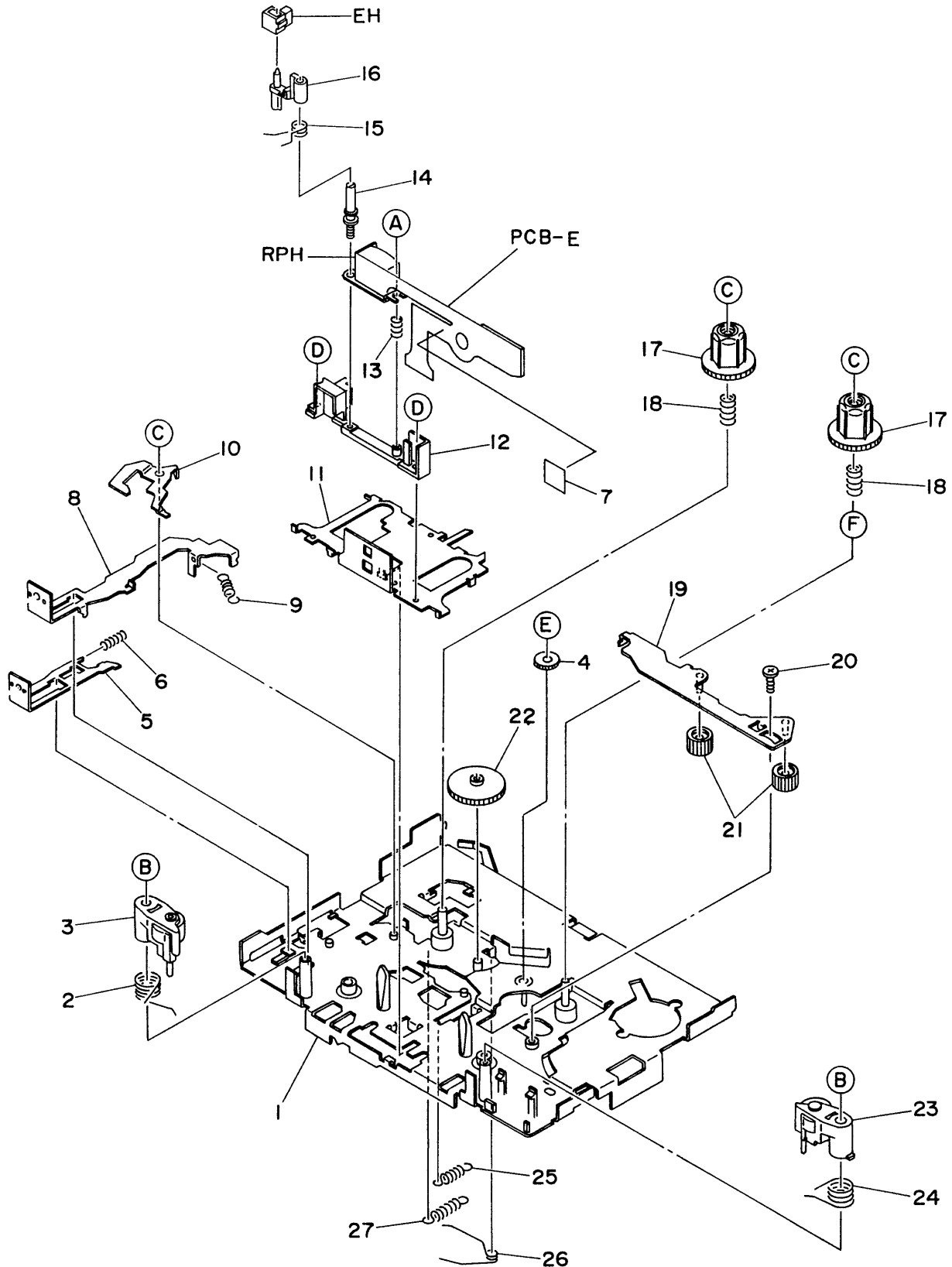


MECHANICAL PARTS LIST

PART NO. CHANGED TO	REF. NO.	PART NO.	DESCRIPTION	COMMON MODEL	Q, TY
1-1		*80-HJ3-006-010	KNOB,SLIDE BAND	*	1
1-2		*80-HJ3-007-010	KNOB,SLIDE BBE	*	1
1-3		*80-HJ3-005-010	KNOB,SLIDE DSL	*	1
1-4		09-027-828-010	LID CASSETTE ASSY	*	1
1-5		*80-HJ3-205-010	HOLDER,VOLUME	*	1
1-6		*80-HJ3-210-010	SHEET,3.5-10	*	1
1-7		*80-HJ3-209-010	SHEET,7-12.5	*	1
1-8		*80-HJ3-207-010	SHEET,BATTERY	*	1
1-9		*80-HJ3-204-010	SHEET,INSULATION	*	1
1-10		*80-HJ3-206-010	HOLDER CASSETTE ASSY	*	1
1-11		*84-462-063-110	FRAME CENTER K ASSY		1
1-12		*80-HJ3-012-010	PLATE,SIDE	*	1
1-13		*80-HJ4-020-010	PANEL,DECORATIVE		1
1-14		*84-463-209-010	P-SPRING,POP UP		1
1-15		*84-518-012-010	PUSH BUTTON,STOP		1
1-16		*84-518-013-010	PUSH BUTTON,REC		1
1-17		*84-518-010-010	PUSH BUTTON,FF		1
1-18		*84-518-011-010	PUSH BUTTON,REW		1
1-19		*84-465-028-010	BUTTON,PLAY R		1
1-20		*80-HR4-003-010	PANEL,CONTROL		1
1-21		*84-462-014-010	KNOB,DIRECTION		1
1-22		*84-518-018-010	KNOB,SLIDE A		4
1-23		*80-HJ4-220-010	SHEET,JACK		1
1-24		*80-HJ4-213-210	HOLDER,JACK		1
1-25		*84-462-220-010	CUSHION,G 6-6-2.7		1
1-26		*84-462-204-010	HOLDER,JACK DC		1
1-27		09-027-818-010	BOX BATTERY 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	*	1
1-31		*84-462-225-010	AD SHEET,SPEC		1
1-32		*80-HJ3-009-010	PLATE,SPEC H	*	1
1-33		---	SPACER,CONTACT		1
1-34		*84-462-241-010	SPACER,BOSS A		1
1-35		*84-462-218-010	C-SPRING,MECHANISM EARTH A		1
1-36		*82-299-509-010	HIMERON,7-14		1
1-37		*84-462-207-010	SHEET,SENSOR		1
1-38		*84-462-237-010	SHEET,PB		1
1-39		*80-HJ4-222-010	SHEET,4-3-1.5		1
1-40		*84-462-210-010	HOLDER,BAR ANTENNA		1
		*09-027-829-010	APPEARANCE SCREW KIT	*	1

EXPLODED VIEW - 2

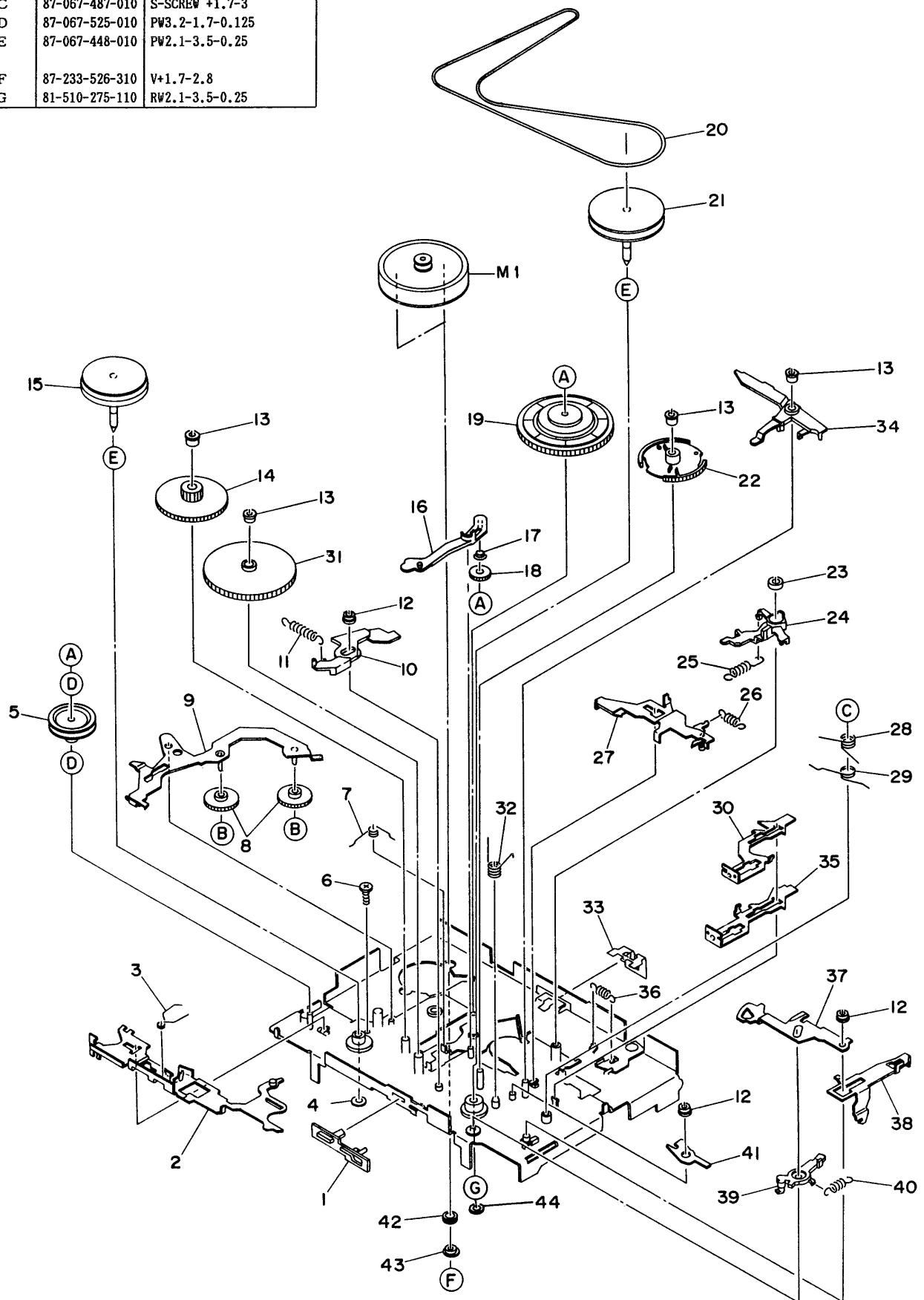
REF.NO.	PART NO.	DESCRIPTION
A	87-268-512-310	V+1.4-5.5(3)
B	87-067-517-010	S-SCREW M1.4-2
C	87-067-516-010	PW3-1.58-0.25
D	87-067-511-010	S-SCREW M1.4-2(B)
E	87-067-449-010	PW3-1.5-0.25 CUT
F	86-541-431-010	PW REEL



PART NO. CHANGED TO	REF. NO.	PART NO.	DESCRIPTION	COMMON MODEL	Q, TY
	2-1	*86-541-508-010	OUTSERT ASSY BP		1
	2-2	*86-541-338-110	T-SPRING,PINCH R P		1
	2-3	86-541-218-110	PINCH LEVER R ASSY		1
	2-4	*86-541-477-210	GEAR,PLAY M		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	*86-541-260-810	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	*86-541-287-210	LEVER,EH		1
	2-17	*86-541-236-010	GEAR,REEL PLATFORM		2
	2-18	*86-541-328-010	C-SPRING,REEL PLATFORM		2
	2-19	*86-541-509-410	PLATE FR ASSY		1
	2-20	*86-541-383-110	SCREW,FR		1
	2-21	*86-541-244-010	GEAR,FR		2
	2-22	*86-541-239-010	GEAR,REW		1
	2-23	86-541-216-110	PINCH LEVER F ASSY		1
	2-24	*86-541-314-010	T-SPRING,PINCH F R		1
	2-25	*86-541-331-010	E-SPRING,ACTUATING		1
	2-26	*86-541-347-110	T-SPRING,FR LEVER		1
	2-27	*86-541-336-010	E-SPRING,REC		1

EXPLODED VIEW - 3

REF. NO.	PART NO.	DESCRIPTION
A	87-067-447-010	PW3-1.215-0.25
B	87-067-449-010	PW3-1.5-0.25
C	87-067-487-010	S-SCREW +1.7-3
D	87-067-525-010	PW3.2-1.7-0.125
E	87-067-448-010	PW2.1-3.5-0.25
F	87-233-526-310	V+1.7-2.8
G	81-510-275-110	RW2.1-3.5-0.25



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	*86-541-222-110	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		1
	3-7	*86-541-334-210	T-SPRING,AUTO LEVER		1
	3-8	*86-541-242-310	GEAR,PLAY		2
	3-9	*86-541-479-110	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	*86-541-376-010	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	*86-541-241-010	GEAR,AUTO		1
	3-19	*86-541-206-010	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	*86-541-297-010	E-SPRING,REC EJECT		1
	3-26	*86-541-332-010	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	*86-541-237-010	GEAR,AUTO CAM		1
	3-32	*86-541-345-110	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	*86-541-278-310	LEVER,EH RESET		1
	3-38	*86-541-263-210	PLATE,EJECT		1
	3-39	*86-541-286-010	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	*86-511-449-110	COLLAR,MOTOR B		2
	3-44	*87-034-739-010	SHEET,SOMA 1.63-3.2-0.3		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	★ 80 - HJ3 - 901 - 010	INSTRUCTION BOOKLET, EX	※	1
	2	★ 80 - HJ3 - 951 - 010	CARRYING CASE	※	1
	3	★ 87 - 041 - 057 - 010	MIC, CM - S30		1
	4	★ 09 - 027 - 818 - 010	BATTERY BOX ASSY	※	1
	5	★ 84 - 462 - 018 - 010	BOX, BAT A		1
	6	★ 87 - 042 - 053 - 019	AC - 207H (AH1)		1
	7	★ 87 - 042 - 054 - 010	AC - 207U (AU, AC)		1
	8	★ 87 - 042 - 055 - 010	AC - 207E (AE, AE1, AZ)		1
	9	★ 87 - 042 - 056 - 010	AC - 207K (AK1)		1
	10	★ 87 - 047 - 100 - 010	PB - 3Y		1
	11	87 - 048 - 162 - 010	HP - 19 BK (AH1, AE1, AK1)		1
	12	87 - 048 - 173 - 010	HP - M18 (AU, AC, AE, AZ)		1