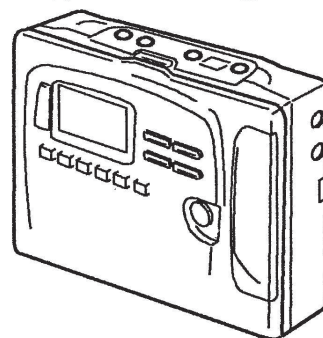


AIWA®**HS-JX707**
HS-JX707D

SERVICE MANUAL



STEREO RADIO CASSETTE RECORDER

• BASIC TAPE MECHANISM : OZM — 4

• TYPE. JX707H,U,C,E,K,Z
JX707DAH

PRACTICAL SERVICE FIGURE

JX-707

Frequency range:FM: 87.5/87.5 — 108.1/108MHz (200kHz/50kHz STEP)
AM: 530/531 — 1710/1602kHz (10/9kHz STEP)**Maximum output:**7mW + 7mW (EIAJ/32Ω)
10mW + 10mW (EIAJ/16Ω)**Power source:**Battery DC 2V, rechargeable battery (PB-S5)
Battery DC 3V, LR-03 (UM-4, AAA, R03) × 2
Domestic AC power (using the optional AC adaptor)**Battery life:**Rechargeable battery (PB-S5)
Approx. 2 hours (EIAJ, REC/1 hour recharging)
Approx. 1.5 hours (EIAJ, PB 1mW/10 minutes recharging)
Approx. 2.5 hours (EIAJ, PB 1mW/1 hour recharging)**Dimensions:**76.2 (W) × 107 (H) × 27.2 (D) mm
(3 × 4 1/4 × 1 1/8 inches)**Weight:**

Approx. 220g (0.48 lbs) incl. rechargeable battery

< Battery charger: >**Rated voltage:**AC209H AC115/230V, switchable
AC209E AC220V
AC209K AC240V
AC209UC AC120V**Rated input:**

10VA 50/60Hz

Usable batteries:

AIWA rechargeable battery (PB-S5)

Rated output:

DC 2.5V 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.
- The word "BBE" and the "BBE symbol" are trademarks of BBE Sound, Inc.
- Under license from BBE Sound, Inc.

JX-707D

Frequency range:FM: 76 — 108 MHz
AM: 530/522 — 1710/1629kHz (10/9kHz STEP)
TV : 1-3ch (95.5-108MHz) 4-12ch (175-222.5MHz)**Maximum output:**7mW + 7mW (EIAJ/32Ω)
10mW + 10mW (EIAJ/16Ω)**Power source:**Battery DC 2V, rechargeable battery (PB-S5)
Battery DC 3V, LR-03 (UM-4, AAA, R03) × 2
Domestic AC power (using the optional AC adaptor)**Battery life:**Rechargeable battery (PB-S5)
Approx. 2 hours (EIAJ, REC/1 hour recharging)
Approx. 1.5 hours (EIAJ, PB 1mW/10 minutes recharging)
Approx. 2.5 hours (EIAJ, PB 1mW/1 hour recharging)**Dimensions:**

76.2 (W) × 107 (H) × 27.2 (D) mm

Weight:

Approx. 220g incl. rechargeable battery

< Battery charger: AC-209W >**Rated voltage:**

AC 100-120/220-240V, switchable

Rated input:

10VA 50/60Hz

Usable batteries:

AIWA rechargeable battery (PB-S5)

Rated output:

DC 2.5V 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.
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- Under license from BBE Sound, Inc.

AIWA Co., Ltd.**Tokyo Japan**

Printed in Japan

DISASSEMBLY INSTRUCTIONS

1. "Lid Cassette ASSY" Removal (See Figure - 1)

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

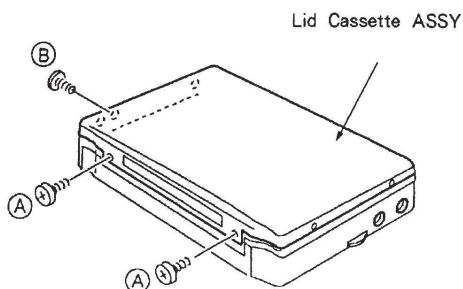


Fig - 1

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

- 1) Remove 5 screws (A×2, B×1, C×2) and remove the "Holder, Cassette".

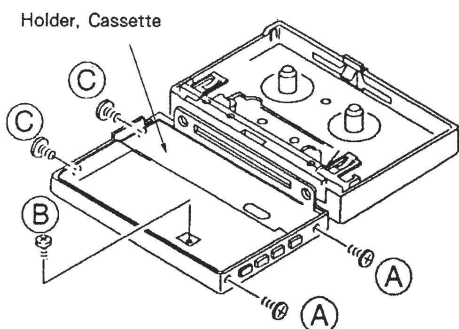


Fig - 2

3. "Lid, Battery" and "Cabinet, Rear" Removal (See Figure - 3)

(See Figure - 3)

- 1) Remove screw (A) and remove the "Lid, Battery" in the direction of arrow ①.
- 2) Remove 5 screws (B×2, C×1, D×1, E×1) and remove the "Cabinet, Rear".

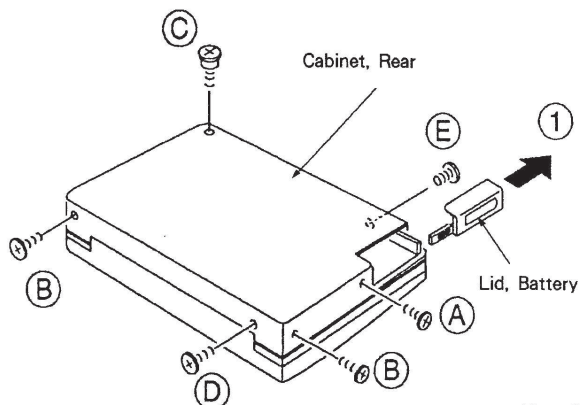


Fig - 3

4. "Holder ASSY" Removal (See Figure - 4)

- 1) While pulling the "P - Spring, Holder" in the direction of arrow ① as shown in the figure remove the "Holder Cassette ASSY" in the direction of arrow ②.

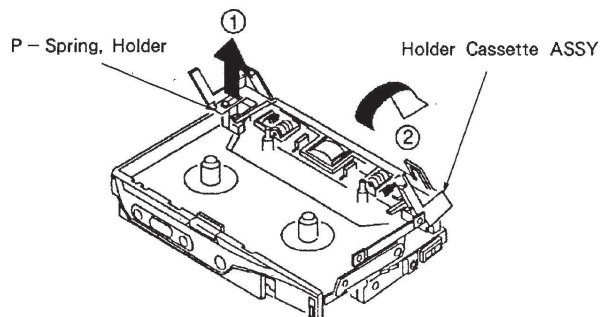


Fig - 4

5. "Frame, Center" and "Panel, Bottom" Removal (See Figure - 5)

(See Figure - 5)

- 1) Push the "Button, Open" in the direction of arrow ①.
- 2) Remove the "Frame, Center" in the direction of arrow ②, ③.
- 3) Remove the "Panel, Bottom" in the direction of arrow ④.

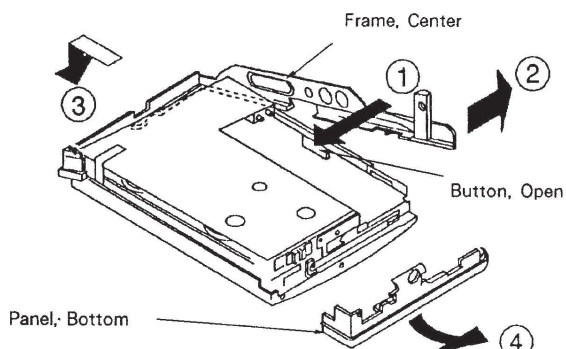


Fig - 5

6. "Main Circuit Board" Removal (See Figure - 6)

- 1) Unsolder point and remove 8 screws (A×3, B×2, C×2, D×1) and remove the "Main Circuit Board".

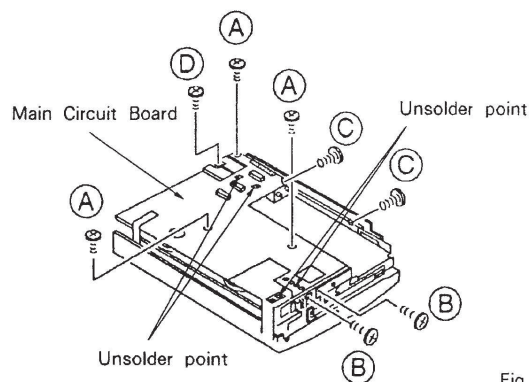


Fig - 6

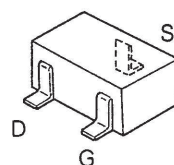
ELECTRICAL MAIN PARTS LIST

REF. NO.	PART NO.	DESCRIPTION	REF. NO.	PART NO.	DESCRIPTION
--- IC ---			C5	★87-010-805-010	CAP, CHIP S 1-16 F
	87-002-522-010	IC, CXA1405AM	C6	★87-010-805-010	CAP, CHIP S 1-16 F
	87-002-425-010	IC, MM1085 XF	C7	★87-010-805-010	CAP, CHIP S 1-16 F
	87-002-463-010	IC, MSM6374-534GS	C8	★87-010-805-010	CAP, CHIP S 1-16 F
	87-020-955-010	IC, NJM2065AM	C9	★87-012-195-010	CAP, CHIP U 100P-50 CH
	87-002-545-010	IC, TA2018FN	C10	★87-012-195-010	CAP, CHIP U 100P-50 CH
	87-020-234-010	IC, TA7688F(S)	C11	★87-010-805-010	CAP, CHIP S 1-16 F
	87-001-971-010	IC, TA8132AF	C12	★87-010-805-010	CAP, CHIP S 1-16 F
	87-001-931-010	IC, TA8152AFN	C13	★87-012-274-010	CAP, CHIP U 1000P-50 B
	87-002-360-010	IC, TA8154FN(JX707D)	C14	★87-012-274-010	CAP, CHIP U 1000P-50 B
	87-001-894-010	IC, TA8155FN	C15	★87-012-269-010	CAP, CHIP U 390P-50 B
	87-002-544-010	IC, TA8161F	C16	★87-012-269-010	CAP, CHIP U 390P-50 B
	87-002-611-010	IC, TB2003-003-FN	C17	★87-010-949-010	CAP, CHIP S 0.01-50 B J
	87-001-550-010	IC, TC7S04F	C18	★87-010-949-010	CAP, CHIP S 0.01-50 B J
	87-001-585-010	IC, TC7S32F	C19	★87-010-640-010	CAP, CHIP TANTALUM 22-4
	87-002-516-010	IC, TC9316F-003(JX707D)	C20	★87-010-640-010	CAP, CHIP TANTALUM 22-4
	87-002-543-010	IC, TC9316F-004(JX707)	C21	★87-010-805-010	CAP, CHIP S 1-16 F
	87-001-151-010	IC, TD6134F1	C22	★87-010-805-010	CAP, CHIP S 1-16 F
	87-002-406-010	IC, TPIC326ADB	C23	★87-010-805-010	CAP, CHIP S 1-16 F
	87-002-467-010	IC, XRC5484	C24	★87-010-805-010	CAP, CHIP S 1-16 F
--- TRANSISTOR ---			C25	★87-010-757-010	CAP, CHIP U 0.047-25F
	89-508-804-010	FET, 2SK880 Y	C26	★87-010-757-010	CAP, CHIP U 0.047-25F
	89-508-824-010	FET, 2SK882 Y	C27	★87-015-934-010	CAP, CHIP TANTALUM 2.2-4
	89-112-134-010	TRANSISTOR, 2SA1213Y	C28	★87-015-934-010	CAP, CHIP TANTALUM 2.2-4
	89-113-625-010	TRANSISTOR, 2SA1362GR	C29	★87-012-141-010	CAP, CHIP S 0.22-16 F
	89-115-864-010	TRANSISTOR, 2SA1586Y	C30	★87-012-141-010	CAP, CHIP S 0.22-16 F
	89-115-884-010	TRANSISTOR, 2SA1588Y	C31	★87-012-141-010	CAP, CHIP S 0.22-16 F
	89-341-165-010	TRANSISTOR, 2SC4116GR	C32	★87-012-141-010	CAP, CHIP S 0.22-16 F
	89-342-132-010	TRANSISTOR, 2SC4213B	C33	★87-015-934-010	CAP, CHIP TANTALUM 2.2-4
	89-342-153-010	TRANSISTOR, 2SC42150	C34	★87-015-934-010	CAP, CHIP TANTALUM 2.2-4
	87-026-346-010	TRANSISTOR, DTC114YU(JX707D)	C35	★87-012-284-010	CAP, CHIP U 6800P-50 B
	87-026-342-010	TRANSISTOR, DTC144EU	C36	★87-012-284-010	CAP, CHIP U 6800P-50 B
	87-026-467-010	TRANSISTOR, HN1C01F(GR)	C37	★87-012-197-010	CAP, CHIP U 150P-50 CH
	87-026-470-010	TRANSISTOR, HN1C03F(B)	C38	★87-012-197-010	CAP, CHIP U 150P-50 CH
	87-026-412-010	TRANSISTOR, RN1305	C39	★87-012-283-010	CAP, CHIP U 5600P-50 B
	87-026-414-010	TRANSISTOR, RN1307	C40	★87-012-283-010	CAP, CHIP U 5600P-50 B
	87-026-417-010	TRANSISTOR, RN1310	C41	★87-012-286-010	CAP, CHIP U 0.01-25 B
	87-026-418-010	TRANSISTOR, RN1311	C42	★87-012-286-010	CAP, CHIP U 0.01-25 B
	87-026-474-010	TRANSISTOR, RN1605	C43	★87-012-283-010	CAP, CHIP U 5600P-50 B
	87-026-475-010	TRANSISTOR, RN1607	C44	★87-012-283-010	CAP, CHIP U 5600P-50 B
	87-026-476-010	TRANSISTOR, RN1610(JX707D)	C45	★87-010-805-010	CAP, CHIP S 1-16 F
	87-026-422-010	TRANSISTOR, RN2304	C46	★87-010-805-010	CAP, CHIP S 1-16 F
	87-026-423-010	TRANSISTOR, RN2305	C47	★87-012-286-010	CAP, CHIP U 0.01-25 B
	87-026-425-010	TRANSISTOR, RN2307	C48	★87-012-286-010	CAP, CHIP U 0.01-25 B
	87-026-478-010	TRANSISTOR, RN2607	C49	★87-010-757-010	CAP, CHIP U 0.047-25F
	87-026-479-010	TRANSISTOR, RN2610	C50	★87-010-757-010	CAP, CHIP U 0.047-25F
	87-026-481-010	TRANSISTOR, RN4607	C51	★87-010-757-010	CAP, CHIP U 0.047-25F
	87-026-482-010	TRANSISTOR, RN4610	C52	★87-010-757-010	CAP, CHIP U 0.047-25F
--- DIODE ---			C53	★87-012-273-010	CAP, CHIP U 820P-50 B
	87-001-165-010	DIODE, CHIP 1SS300	C54	★87-012-273-010	CAP, CHIP U 820P-50 B
	87-001-166-010	DIODE, CHIP 1SS301	C55	★87-012-195-010	CAP, CHIP U 100P-50 CH
	87-001-167-010	DIODE, CHIP 1SS302	C56	★87-012-195-010	CAP, CHIP U 100P-50 CH
	87-001-221-010	DIODE, CHIP 1SS319	C57	★87-015-934-010	CAP, CHIP TANTALUM 2.2-4
	87-001-553-010	DIODE, CHIP 1SS322	C58	★87-015-934-010	CAP, CHIP TANTALUM 2.2-4
	87-001-764-010	DIODE, CHIP 1MN10	C59	★87-010-757-010	CAP, CHIP U 0.047-25F
--- MAIN CIRCUIT BOARD SECTION ---			C60	★87-010-757-010	CAP, CHIP U 0.047-25F
C1	★87-015-923-010	CAP, CHIP TANTALUM 0.22-35	C61	★87-015-934-010	CAP, CHIP TANTALUM 2.2-4
C2	★87-015-923-010	CAP, CHIP TANTALUM 0.22-35	C62	★87-015-934-010	CAP, CHIP TANTALUM 2.2-4
C3	★87-010-787-010	CAP, CHIP U 0.022-25B	C63	★87-010-424-010	CAP, CHIP TANTALUM 4.7-4
C4	★87-010-787-010	CAP, CHIP U 0.022-25B	C64	★87-010-424-010	CAP, CHIP TANTALUM 4.7-4
			C65	★87-012-142-010	CAP, CHIP S 0.33-16 F
			C66	★87-012-142-010	CAP, CHIP S 0.33-16 F
			C67	★87-010-758-010	CAP, CHIP U 0.068-25F
			C68	★87-010-758-010	CAP, CHIP U 0.068-25F

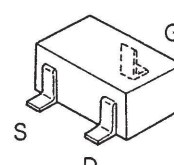
REF. NO.	PART NO.	DESCRIPTION	REF. NO.	PART NO.	DESCRIPTION
C69	★87-010-758-010	CAP,CHIP U 0.068-25F	C147	★87-015-934-010	CAP,CHIP TANTALUM 2.2-4
C70	★87-010-758-010	CAP,CHIP U 0.068-25F	C148	★87-010-196-010	CAP,CHIP S 0.1-25 F
C71	★87-010-805-010	CAP,CHIP S 1-16 F	CP1	★87-026-504-010	PHOTO SENSOR,5164K-F1-Q2
C72	★87-010-805-010	CAP,CHIP S 1-16 F	L1	★81-HJ1-626-010	COIL,CHIP 10MMH
C73	★87-012-281-010	C-CAP,U 3900P-50 B	L2	★81-HJ1-626-010	COIL,CHIP 10MMH
C74	★87-012-281-010	C-CAP,U 3900P-50 B	L3	★87-003-240-010	COIL,CHIP S 3.3UH
C75	★87-016-034-010	CAP,CHIP U 0.027-25 F	L4	★87-003-240-010	COIL,CHIP S 3.3UH
C76	★87-016-034-010	CAP,CHIP U 0.027-25 F	L11	★87-007-246-010	COIL,CHIP OSC BIAS
C77	★87-010-805-010	CAP,CHIP S 1-16 F	L12	★87-003-240-010	COIL,CHIP S 3.3UH
C78	★87-010-805-010	CAP,CHIP S 1-16 F	L13	★81-HJ1-620-010	COIL,LOADING
C79	★87-010-805-010	CAP,CHIP S 1-16 F	L14	★87-003-240-010	COIL,CHIP S 3.3UH
C80	★87-010-805-010	CAP,CHIP S 1-16 F	L15	★87-003-240-010	COIL,CHIP S 3.3UH
C81	★87-012-275-010	CAP,CHIP U 1200P-50 B	R7	★87-022-292-010	RES,CHIP U 330K-1/16W F
C82	★87-012-275-010	CAP,CHIP U 1200P-50 B	R8	★87-022-292-010	RES,CHIP U 330K-1/16W F
C83	★87-012-141-010	CAP,CHIP S 0.22-16 F	R9	★87-022-243-010	RES,CHIP U 15K-1/16W F
C84	★87-012-141-010	CAP,CHIP S 0.22-16 F	R10	★87-022-243-010	RES,CHIP U 15K-1/16W F
C85	★87-010-822-010	CAP,ELECT 220-4 (MJ)	R13	★87-022-280-010	RES,CHIP U 560-1/16W F
C86	★87-010-822-010	CAP,ELECT 220-4 (MJ)	R14	★87-022-280-010	RES,CHIP U 560-1/16W F
C101	★87-010-640-010	CAP,CHIP TANTALUM 22-4	R15	★87-022-280-010	RES,CHIP U 560-1/16W F
C102	★87-010-746-010	CAP,CHIP TANTALUM 10-4	R16	★87-022-280-010	RES,CHIP U 560-1/16W F
C103	★87-010-640-010	CAP,CHIP TANTALUM 22-4	R136	★87-022-282-010	RES,CHIP U 750-1/16W F
C104	★87-012-274-010	CAP,CHIP U 1000P-50 B	R137	★87-022-232-010	RES,CHIP U 5.1K-1/16W F
C105	★87-012-270-010	CAP,CHIP U 470P-50 B	R143	★87-022-293-010	RES,CHIP U 390K-1/16W F
C106	★87-012-286-010	CAP,CHIP U 0.01-25 B	R144	★87-022-287-010	RES,CHIP U 120K-1/16W F
C107	★87-012-270-010	CAP,CHIP U 470P-50 B	R164	★87-022-043-010	RES,CHIP MF 8.2K-1/8
C108	★87-012-278-010	CAP,CHIP U 2200P-50 B	S1	87-036-244-010	SLIDE SW(F/R)
C109	★87-010-197-010	CAP,CHIP S 0.01-25 B	S2	80-ZM4-605-010	LEAF SW(REC)
C110	★87-010-424-010	CAP,CHIP TANTALUM 4.7-4	S3	87-036-145-010	SLIDE SW
C111	★87-012-286-010	CAP,CHIP U 0.01-25 B	S4	87-036-123-010	SLIDE SW(DSL)
C112	★87-012-279-010	CAP,CHIP U 2700P-50 B	S5	87-036-145-010	SLIDE SW(BBE)
C113	★87-012-286-010	CAP,CHIP U 0.01-25 B	S6	87-036-123-010	SLIDE SW(PLSS)
C114	★87-010-805-010	CAP,CHIP S 1-16 F	S7	87-036-145-010	SLIDE SW(REMOTE)
C115	★87-010-805-010	CAP,CHIP S 1-16 F	S8	87-036-123-010	SLIDE SW(REVERSE MODE)
C116	★87-010-942-010	CAP,CHIP ELECT 47-4	S9	87-036-236-010	SLIDE SW(F/R)
C117	★87-010-944-010	CAP,CHIP ELECT 220-4	S10	87-036-237-010	PUSH SW(PLAY)
C118	★87-010-424-010	CAP,CHIP TANTALUM 4.7-4	SFR1	★87-024-424-010	SFR,CHIP 3K RVG4H
C119	★87-010-746-010	CAP,CHIP TANTALUM 10-4	TM1	★80-HK3-212-010	TERMINAL
C120	★87-010-805-010	CAP,CHIP S 1-16 F	TM3	★80-HK3-606-010	TERMINAL ASSY
C121	★87-010-746-010	CAP,CHIP TANTALUM 10-4	VR1	87-024-155-010	VOLUME,20K(A) (VOLUME)
C122	★87-012-286-010	CAP,CHIP U 0.01-25 B			
C123	★87-010-805-010	CAP,CHIP S 1-16 F			
C124	★87-010-759-010	CAP,CHIP U 0.1-25F			
C125	★87-012-278-010	CAP,CHIP U 2200P-50 B			
C126	★87-010-759-010	CAP,CHIP U 0.1-25F			
C127	★87-010-758-010	CAP,CHIP U 0.068-25F			
C128	★87-010-943-010	CAP,CHIP ELECT 100-4			

REF. NO.	PART NO.	DESCRIPTION	REF. NO.	PART NO.	DESCRIPTION
C219	★87-012-337-010	CAP, CHIP U 56P-50 CH	C283	★87-012-184-010	CAP, CHIP U 33P-50 CH
C220	★87-012-197-010	CAP, CHIP U 150P-50 CH	C284	★87-012-168-010	CAP, CHIP U 6P-50 CH
C221	★87-010-829-010	CAP, CHIP U 0. 047-16F	C285	★87-012-286-010	CAP, CHIP U 0. 01-25 B
C222	★87-010-787-010	CAP, CHIP U 0. 022-25B	C286	★87-010-831-010	CAP, CHIP U 0. 1-16F
C223	★87-012-273-010	CAP, CHIP U 820P-50 B	C287	★87-010-831-010	CAP, CHIP U 0. 1-16F
C224	★87-010-787-010	CAP, CHIP U 0. 022-25B	C288	★87-012-286-010	CAP, CHIP U 0. 01-25 B
C225	★87-010-829-010	CAP, CHIP U 0. 047-16F	C289	★87-012-195-010	CAP, CHIP U 100P-50 CH
C226	★87-012-274-010	CAP, CHIP U 1000P-50 B	C290	★87-012-286-010	CAP, CHIP U 0. 01-25 B
C227	★87-012-286-010	CAP, CHIP U 0. 01-25 B	C291	★87-010-805-010	CAP, CHIP S 1-16 F
C228	★87-010-805-010	CAP, CHIP S 1-16 F	C292	★87-010-640-010	CAP, CHIP TANTALUM 22-4
C229	★87-010-830-010	CAP, CHIP U 0. 068-16F	C293	★87-010-746-010	CAP, CHIP TANTALUM 10-4
C230	★87-010-831-010	CAP, CHIP U 0. 1-16F	C294	★87-012-270-010	CAP, CHIP U 470P-50 B
C231	★87-010-831-010	CAP, CHIP U 0. 1-16F	C295	★87-010-831-010	CAP, CHIP U 0. 1-16F
C232	★87-012-286-010	CAP, CHIP U 0. 01-25 B	C296	★87-012-286-010	CAP, CHIP U 0. 01-25 B
C233	★87-010-746-010	CAP, CHIP TANTALUM 10-4	C297	★87-010-829-010	CAP, CHIP U 0. 047-16F
C234	★87-010-871-010	CAP, CHIP U 390P-50 SL	C298	★87-012-195-010	CAP, CHIP U 100P-50 CH
C235	★87-012-286-010	CAP, CHIP U 0. 01-25 B	C299	★87-010-767-010	CAP, CHIP TANTALUM 4. 7/4
C236	★87-012-282-010	CAP, CHIP U 4700P-50 B	C300	★87-010-831-010	CAP, CHIP U 0. 1-16F
C237	★87-012-286-010	CAP, CHIP U 0. 01-25 B	C301	★87-010-831-010	CAP, CHIP U 0. 1-16F
C238	★87-012-337-010	CAP, CHIP U 56P-50 CH	C302	★87-010-831-010	CAP, CHIP U 0. 1-16F
C239	★87-010-872-010	CAP, CHIP U 470-50 SL	C303	★87-010-831-010	CAP, CHIP U 0. 1-16F
C240	★87-012-252-010	CAP, CHIP U 30P-50UJ	C304	★87-012-286-010	CAP, CHIP U 0. 01-25 B
C241	★87-010-831-010	CAP, CHIP U 0. 1-16F	C305	★87-012-286-010	CAP, CHIP U 0. 01-25 B(JX707)
C242	★87-010-483-010	CAP, ELECT 220-4	C306	★87-010-784-010	CAP, CHIP U 0. 012-25 B(JX707)
C243	★87-010-829-010	CAP, CHIP U 0. 047-16F	C307	★87-010-784-010	CAP, CHIP U 0. 012-25 B(JX707)
C244	★87-010-828-010	CAP, CHIP U 0. 033-16 F	C308	★87-012-274-010	CAP, CHIP U 1000P-50 B(JX707)
C245	★87-010-424-010	CAP, TANTALUM 4. 7-4	C309	★87-012-195-010	CAP, CHIP U 100P-50 CH(JX707)
C246	★87-010-805-010	CAP, CHIP S 1-16 F(JX707D)	C310	★87-012-188-010	CAP, CHIP U 47P-50 CH(JX707)
C247	★87-010-805-010	CAP, CHIP S 1-16 F(JX707D)	CF201	★87-008-441-010	FILTER, CHIP CF 10. 7 AE(JX707D)
C248	★87-012-274-010	CAP, CHIP U 1000P-50 B(JX707D)	CF202	★87-008-454-010	FILTER, CHIP CF 10. 7 AE(JX707D)
C249	★87-012-274-010	CAP, CHIP U 1000P-50 B(JX707D)	CF201	87-008-454-010	FILTER, CHIP CF 10. 7 2-Y(JX707)
C250	★87-012-274-010	CAP, CHIP U 1000P-50 B(JX707D)	CF202	+++	FILTER, CHIP CF 10. 7 2-Y(JX707)
C251	★87-010-873-010	CAP, CHIP U 560P-50 SL(JX707D)	CF203	★87-008-396-010	FILTER, CHIP CF 450KHZ
C252	★87-010-873-010	CAP, CHIP U 560P-50 SL(JX707D)	CF204	★87-008-440-010	FILTER, CHIP KIT 10. 7 AE
C253	★87-010-829-010	CAP, CHIP U 0. 047-16F(JX707D)	CF205	★87-008-397-010	FILTER, SAW 456 F18
C254	★87-012-274-010	CAP, CHIP U 1000P-50 B(JX707D)	CTZ201	★87-011-189-010	TRANSISTOR, IMER CTZ-10A
C255	★87-012-283-010	CAP, CHIP U 5600P-50 B(JX707D)	L201	★81-HJ1-611-010	COIL, TV RF(R) (JX707D)
C257	★87-012-274-010	CAP, CHIP U 1000P-50 B(JX707D)	L202	★81-HJ1-609-010	COIL, FM RF(R) (JX707D)
C258	★87-012-142-010	CAP, CHIP S 0. 33-16 F	L202	★81-HJ1-623-010	COIL, FM RF Y(R) (JX707)
C259	★87-012-142-010	CAP, CHIP S 0. 33-16 F	L203	★81-HJ1-610-010	COIL, TV OSC(R) (JX707D)
C260	★87-012-282-010	CAP, CHIP U 4700P-50 B(JX707D)	L204	★81-HJ1-608-010	COIL, FM OSC(R) (JX707D)
C261	★87-012-282-010	CAP, CHIP U 4700P-50 B(JX707D)	L204	★81-HJ1-622-010	COIL, FM OSC Y(R) (JX707)
C262	★87-010-746-010	CAP, CHIP TANTALUM 10-4	L205	★87-006-168-010	COIL, CHIP IFT FM
C263	★87-010-746-010	CAP, CHIP TANTALUM 10-4	L206	★81-HJ1-612-010	BAR-ANT ASSY
C264	★87-010-787-010	CAP, CHIP U 0. 022-25B	L207	★87-008-420-010	IFT, CHIP 450K MW
C265	★87-010-799-010	CAP, CHIP TANTALUM 0. 68-16(A2)	L208	★87-003-247-010	COIL, CHIP 100UH J
C266	★87-010-831-010	CAP, CHIP U 0. 1-16F	L209	★87-003-243-010	COIL, CHIP S 10UH K
C267	★87-012-282-010	CAP, CHIP U 4700P-50 B	L210	★87-006-213-010	COIL, CHIP DDA(8161)
C268	★87-012-282-010	CAP, CHIP U 4700P-50 B	L211	★87-006-214-010	COIL, CHIP DD(2018)
C269	★87-012-286-010	CAP, CHIP U 0. 01-25 B	LCD1	81-HJ1-605-010	LCD ASSY(DISPLAY)
C270	★87-010-831-010	CAP, CHIP U 0. 1-16 F	S201	87-036-220-010	SW, CHIP T(CLK/PRESET 1)
C271	★87-012-199-010	CAP, CHIP U 220P-50 CH	S202	87-036-220-010	SW, CHIP T(CLK/PRESET 2)
C272	★87-010-805-010	CAP, CHIP S 1-16 F	S203	87-036-220-010	SW, CHIP T(CLK/PRESET 3)
C273	★87-012-172-010	CAP, CHIP U 10P-50 CH	S204	87-036-220-010	SW, CHIP T(CLK/PRESET 4)
C274	★87-012-274-010	CAP, CHIP U 1000P-50 B	S205	87-036-220-010	SW, CHIP T(CLK/PRESET 5)
C275	★87-010-746-010	CAP, CHIP TANTALUM 10-4	S206	87-036-220-010	SW, CHIP T(CLK/PRESET +5)
C276	★87-012-286-010	CAP, CHIP U 0. 01-25 B	S207	87-036-220-010	SW, CHIP T(UP/H)
C277	★87-012-286-010	CAP, CHIP U 0. 01-25 B	S208	87-036-220-010	SW, CHIP T(DOWN/M)
C278	★87-012-286-010	CAP, CHIP U 0. 01-25 B	S209	87-036-220-010	SW, CHIP T(MEMORY SET)
C279	★87-012-286-010	CAP, CHIP U 0. 01-25 B	S210	87-036-220-010	SW, CHIP T(FUNCTION)
C280	★87-012-195-010	CAP, CHIP U 100P-50 CH(JX707D)	S211	87-036-220-010	SW, CHIP T(AUTO PRESET)
C280	★87-012-336-010	CAP, CHIP U 330P-50 SL(JX707)	S212	87-036-220-010	SW, CHIP T(ALARM/SLEEP)
C281	★87-012-286-010	CAP, CHIP U 0. 01-25 B	S213	87-036-220-010	SW, CHIP T(TIMER)
C282	★87-012-195-010	CAP, CHIP U 100P-50 CH	S214	87-036-123-010	SLIDE SW(AM STEP)

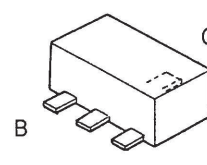
REF. NO.	PART NO.	DESCRIPTION
S215	87-030-152-010	TACT SW(RESET)
VC201	87-001-708-010	VARACTOR, CHIP 1SV228 (JX707D)
VC202	87-001-708-010	VARACTOR, CHIP 1SV228
VC203	87-001-708-010	VARACTOR, CHIP 1SV228 (JX707D)
VC204	87-001-708-010	VARACTOR, CHIP 1SV228
VC205	87-026-435-010	VARICAP, CHIP KV1560
XL201	★87-030-180-010	X'TAL KF-38R5-8A



2SK882



2SK880



2SA1213

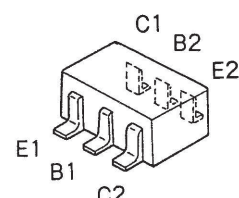
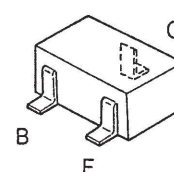
=== BATTERY CIRCUIT BOARD SECTION ===

C1	★84-439-620-010	CAP, ELECT 470-4
J1	87-049-549-010	JACK, DC
TM2	★81-HK3-217-010	TERMINAL ASSY

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

=== CONTROL CIRCUIT BOARD SECTION ===

S1-1	80-ZM4-603-010	LEAF SW(FWD REC PROTECTOR)
S1-2	+++	LEAF SW(CASSETTE)
S2-1	80-ZM4-604-010	LEAF SW(TAPE)
S2-2	+++	LEAF SW(REV REC PROTECTOR)
S3	81-HJ2-617-010	CONTROL KEY ASSY(J2) (STOP/DIR)
S4	+++	CONTROL KEY ASSY(J2) (FFWD)
S5	+++	CONTROL KEY ASSY(J2) (REW)
S6	+++	CONTROL KEY ASSY(J2) (REC)
S7	+++	CONTROL KEY ASSY(J2) (PLAY/DIR)



=== JACK CIRCUIT BOARD SECTION ===

J2	87-009-733-010	JACK 3.5 BLK 5P(PHONES)
J3	87-009-734-010	JACK 3.5 BLK 3P(MIC)

=== HEAD FLEX CIRCUIT BOARD SECTION ===

PCB-F	87-046-369-010	HEAD, FLEX. CIRCUIT BOARD
RPH	87-046-367-010	HEAD ASSY(W/PCB-F)

=== TUNER CONNECT FLEX CIRCUIT BOARD SECTION ===

PCB-G	81-HJ1-603-010	TUNER FLEX. CIRCUIT BOARD
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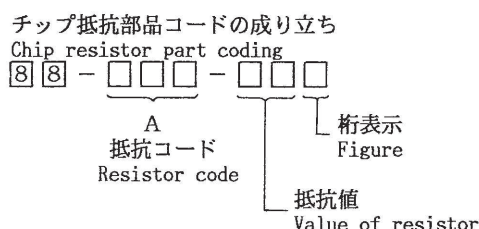
=== MISCELLANEOUS ===

M1	M8-OZS-291-000	MOTOR ABL-7A
PL1	80-ZM4-601-110	SOL, MD PL
PL2	80-ZM4-602-010	SOL, REC

DTC114
DTC144
RN1305
RN1307
RN1310
RN1311
RN2304
RN2305
RN2307

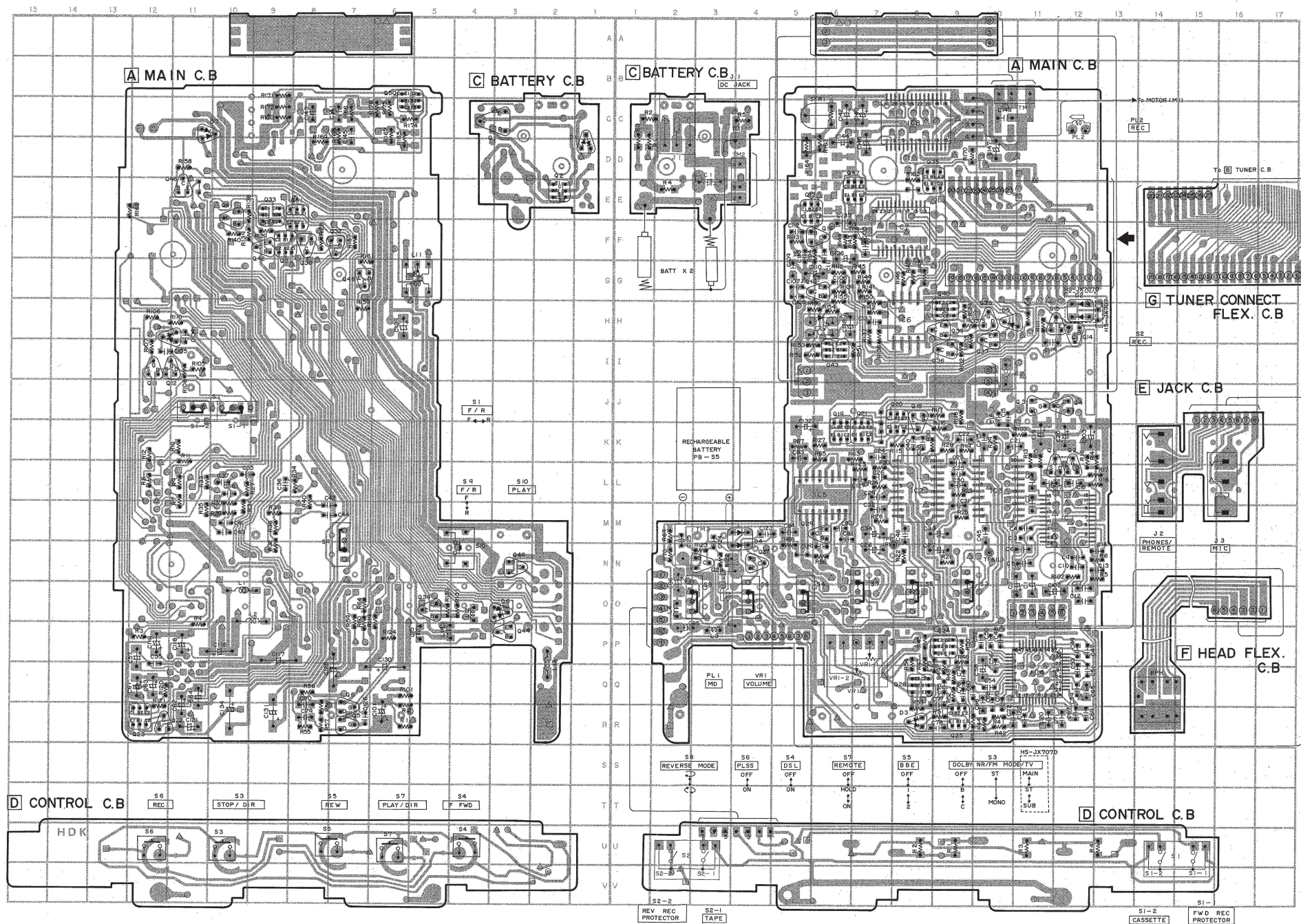
HN1C01
HN1C03
RN1605
RN1607
RN1610
RN2607
RN2610
RN4607
RN4610

○チップ抵抗部品コード/CHIP RESISTOR PART CODE

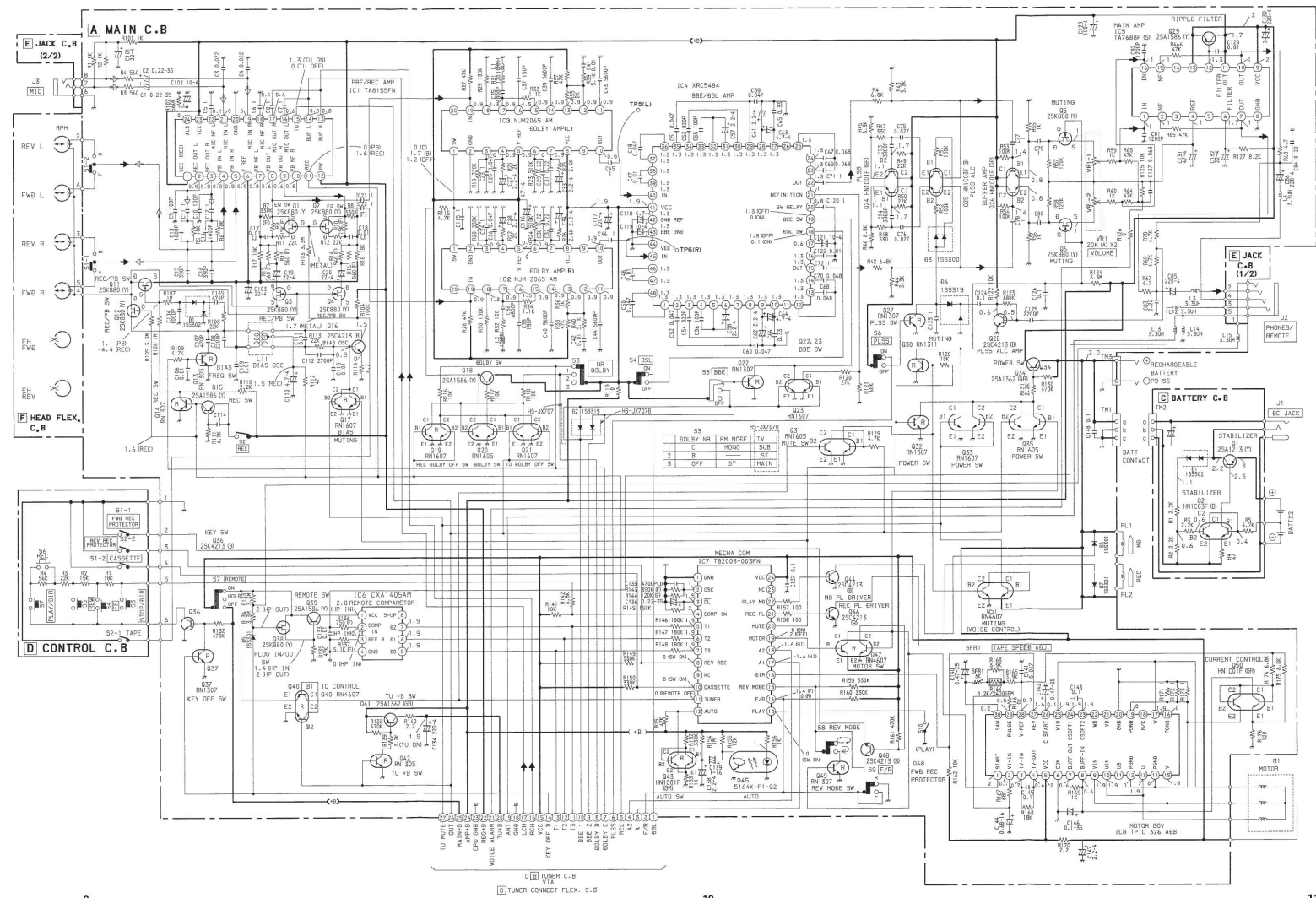


チップ抵抗 Chip resistor

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

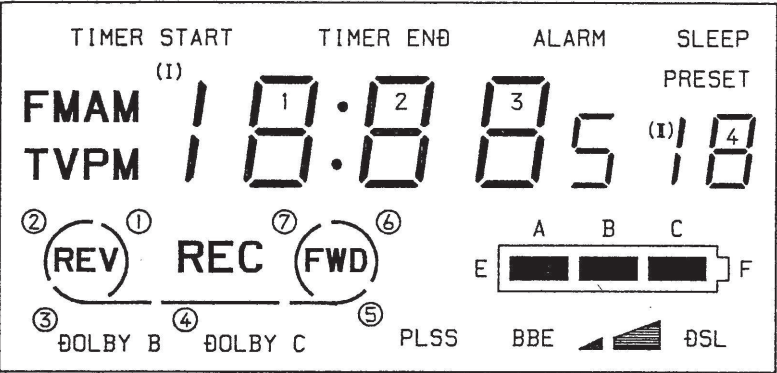


SCHEMATIC DIAGRAM - 1



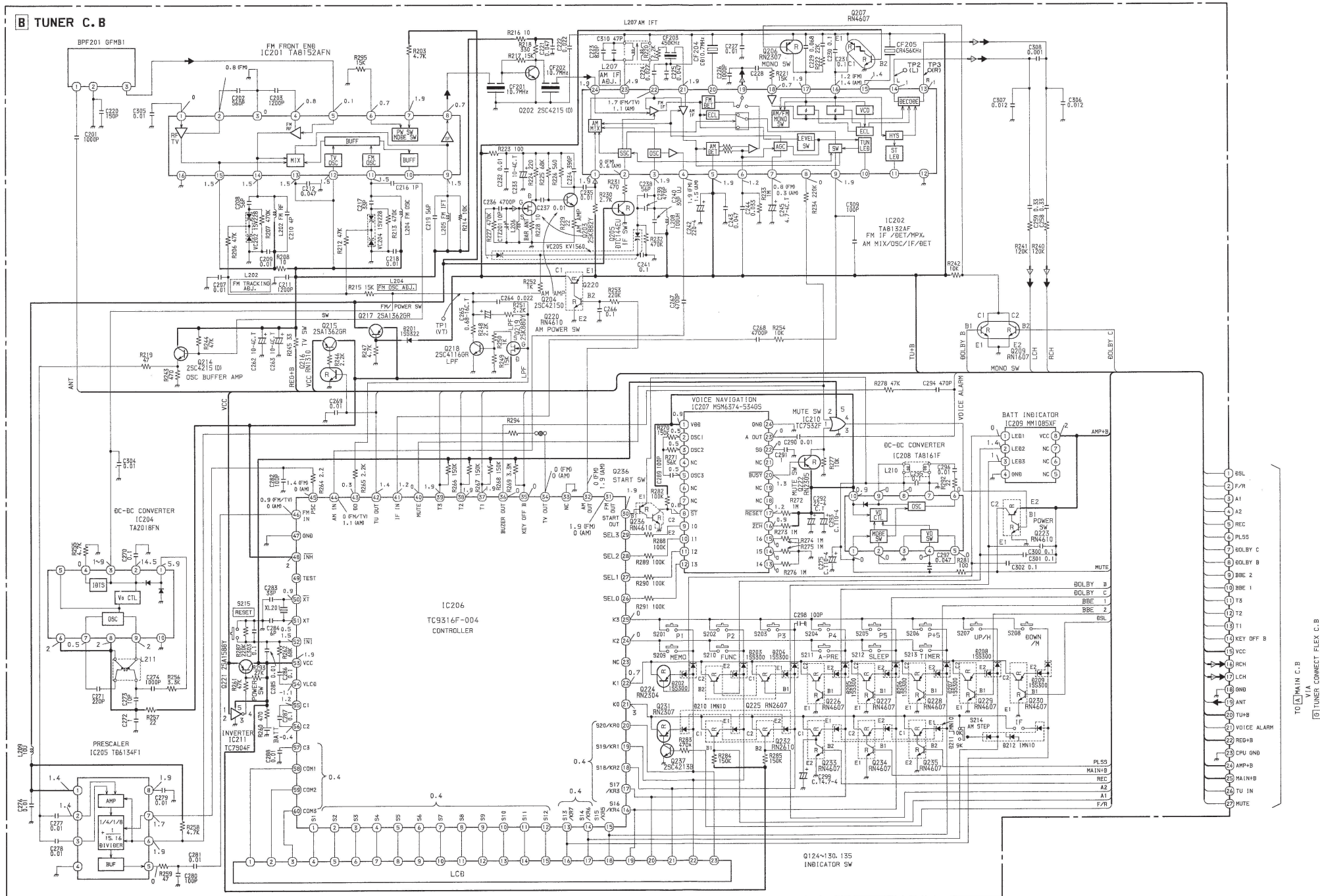


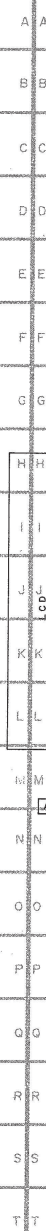
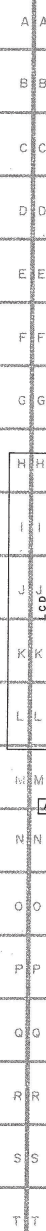
LCD1 DISPLAY (JX707,JX707D)



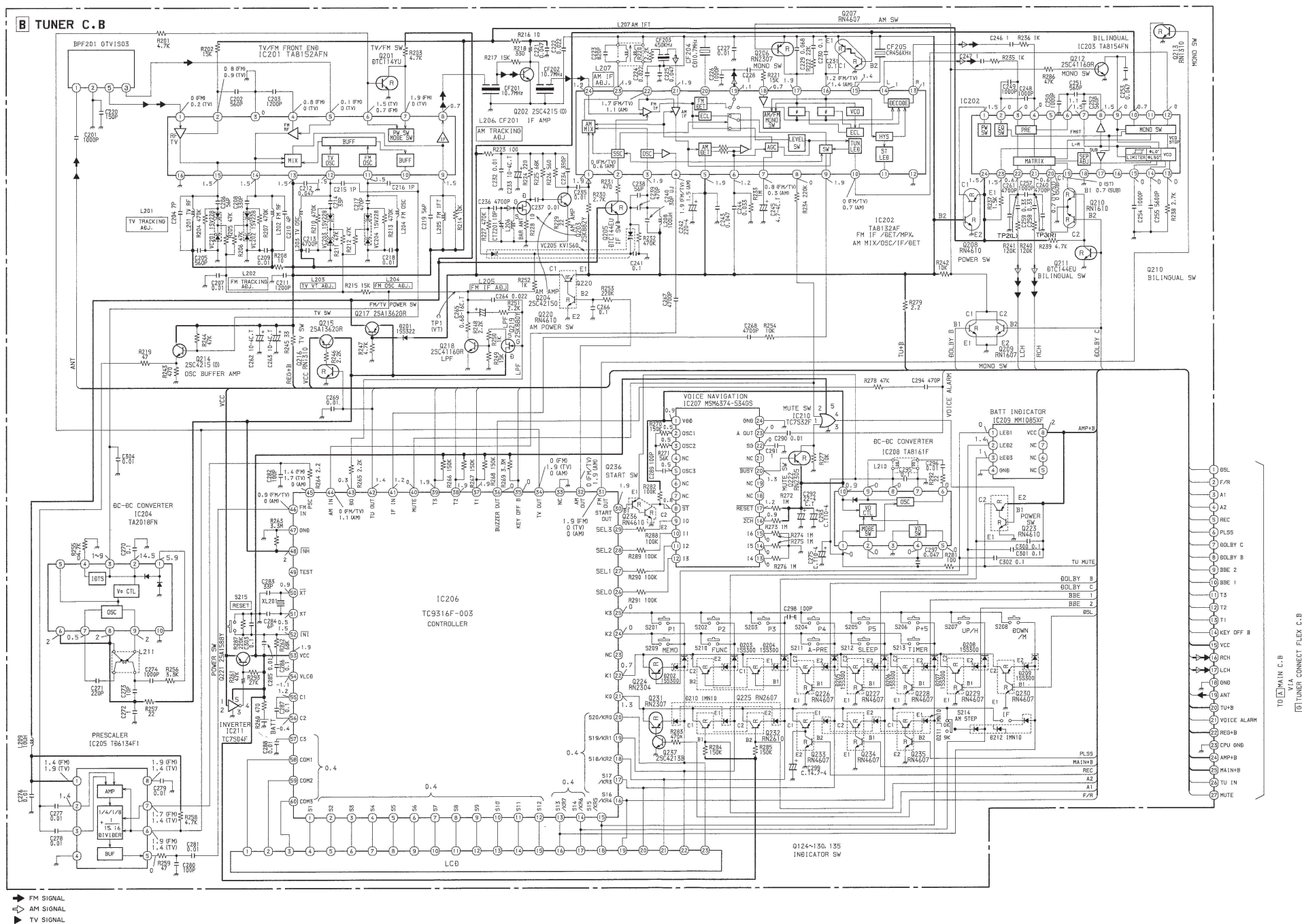
NO.	COM.1	COM.2	COM.3
1	COM.1		
2		COM.2	
3			COM.3
4	DOLBY B	PLSS	DOLBY C
5	(3)	(5)	(4)
6	REV	(2)	(1)
7	FM	REC	TV
8	PM	AM	TIMER START
9	1d	1e	1(I)
10	1c	1g	1f
11	:	1b	1a
12	2e	2f	2a
13	2g	2b	TIMER END
14	2d	2c	3f
15	3e	3g	3a
16	3d	3c	3b
17	5	1(I)	ALARM
18	4f	4a	PRESET
19	4e	4g	4b
20	4d	4c	SLEEP
21	(A)	(B)	(C)
22	BBE		ØSL
23	(6)	FWD	(7)

B TUNER C.B





To **A**
MAIN C.B.



IC DESCRIPTION – 1

IC,TB2003 – 003 – FN

Pin No.	Pin Name	I/O	Description
1	GND	–	Connected to ground.
2	OSC	–	Frequency for generating the system clock-reference oscillation frequency generated by C/R connected externally : $f - OSC = 32kHz$.
3	$\overline{CL}$	I	"L" input resets the IC, turns off the output transistors of all output pins and stops system clock generation. Interrupt input. "H" input executes a program from the output ROM's address "0".
4	COMP IN	I	2-wire remote control input, connected to the input of the internal operation amplifier. This is compared with the reference voltage to detect 5 levels.
5	T1	I	Remote control comparator inputs. The inputs at these 3 pins are used to detect STOP, FF, REW and PLAY DIRECTION according to the truth values. (Refer to a separate paper for the remote control truth table.)
6	T2		
7	T3		
8	REV REC	I	"H" input prevents recording in the reverse mode.
9	NC	–	Unused.
10	CASSETTE	I	"L" input sets the HS – JX707 to the standby mode for the cassette loading execution command.
11	TUNER	I	When the remote control is turned on, the "H" TUNER OUT signal switches the HS – JX707 to the tuner system.
12	AUTO STOP	I	AC input sets the timer set time to 2 seconds.
13	PLAY	I	Goes "L" during PLAY/REC and "H" in other modes.
14	F/R	I	The input/output and F/R indicators are switched by "L" in the REVERSE mode and "H" in the FORWARD mode.
15	REV MODE	I	Mode switch. "H" switches to reverse recording and "L" switches to forward recording.
	FWD REC		"H" input prevents forward recording.
16	DIR	I	Switches the rotation direction of the motor.
17	A1	O	Refer to an another sheet for the mechanical matrix indication.
18	A2		
19	MOTOR	O	Open collector output. Motor on/off switching output.
20	MUTE	O	Emitter-follower output (MUTE signal). Outputs "H" when the mechanism is operated.
21	REC PL	O	Outputs "H" to drive the REC plunger during recording.
22	PLAY MD	O	MDPU during PLAY.
23	NC	–	Unused.
24	VCC	–	DC 2V.

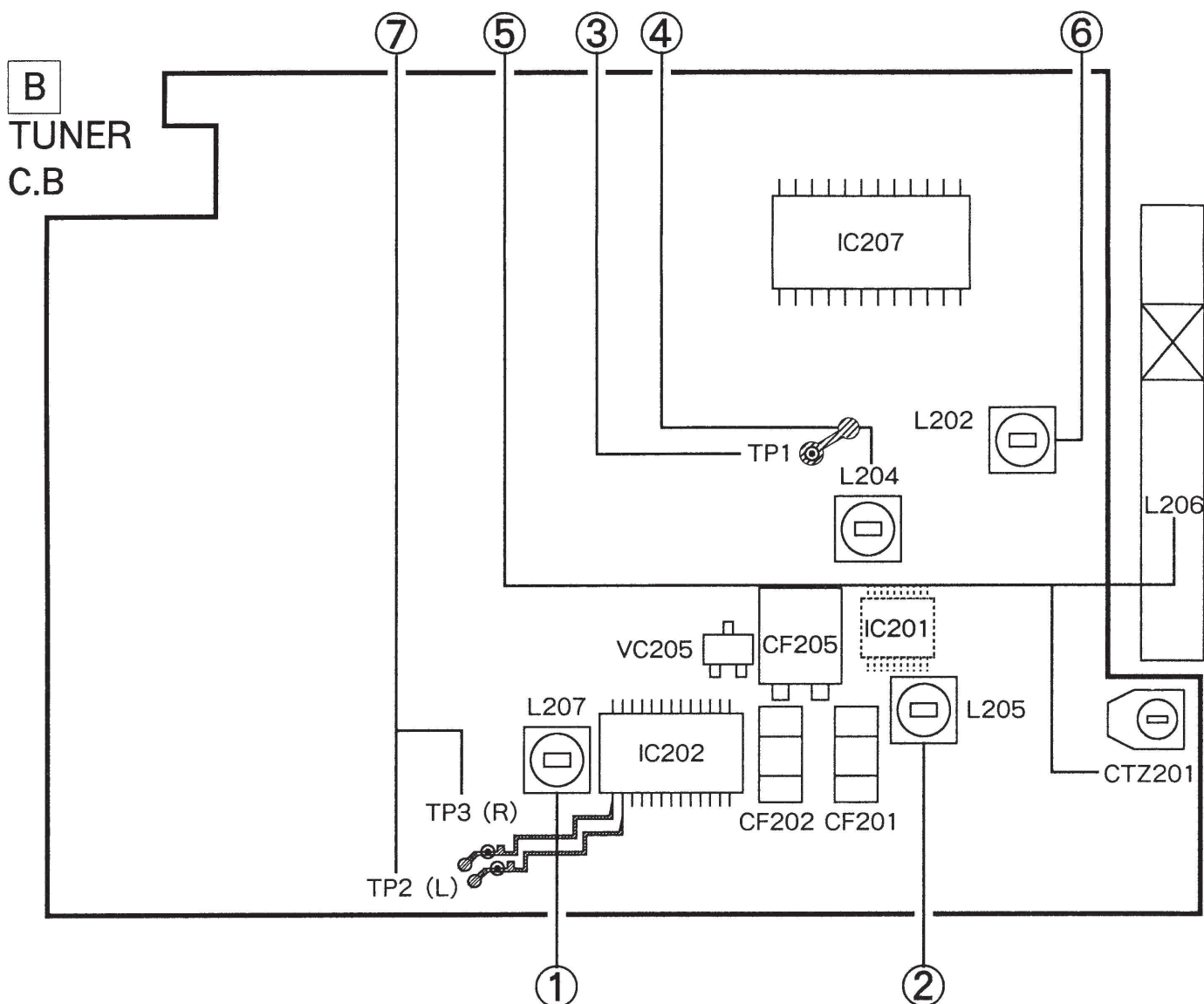
IC, TB2003 – 003 – FN TRUTH TABLE

T1 ⑤	T2 ⑥	T3 ⑦	KEY	Remarks
H	H	H	STAND BY	
H	L	L	STOP	TAPE
L	H	L	FF	TAPE
H	H	L	REW	TAPE
H	L	H	PLAY	TAPE
H	H	L	PRESET	RADIO
L	L	L	FUNCTION	RADIO

IC, TB2003 – 003 – FN KEY MATRIX

	A1 ⑪	A2 ⑫	F/R ⑬	REC
FWD STOP	OFF	OFF	ON	OFF
FWD PLAY	OFF	ON	ON	OFF
FWD FF	ON	OFF	ON	OFF
FWD REW	ON	ON	ON	OFF
FWD REC	OFF	ON	ON	ON
REV STOP	OFF	OFF	OFF	OFF
REV PLAY	OFF	ON	OFF	OFF
REV FF	ON	ON	OFF	OFF
REV REW	ON	OFF	OFF	OFF
REV REC	OFF	ON	OFF	ON

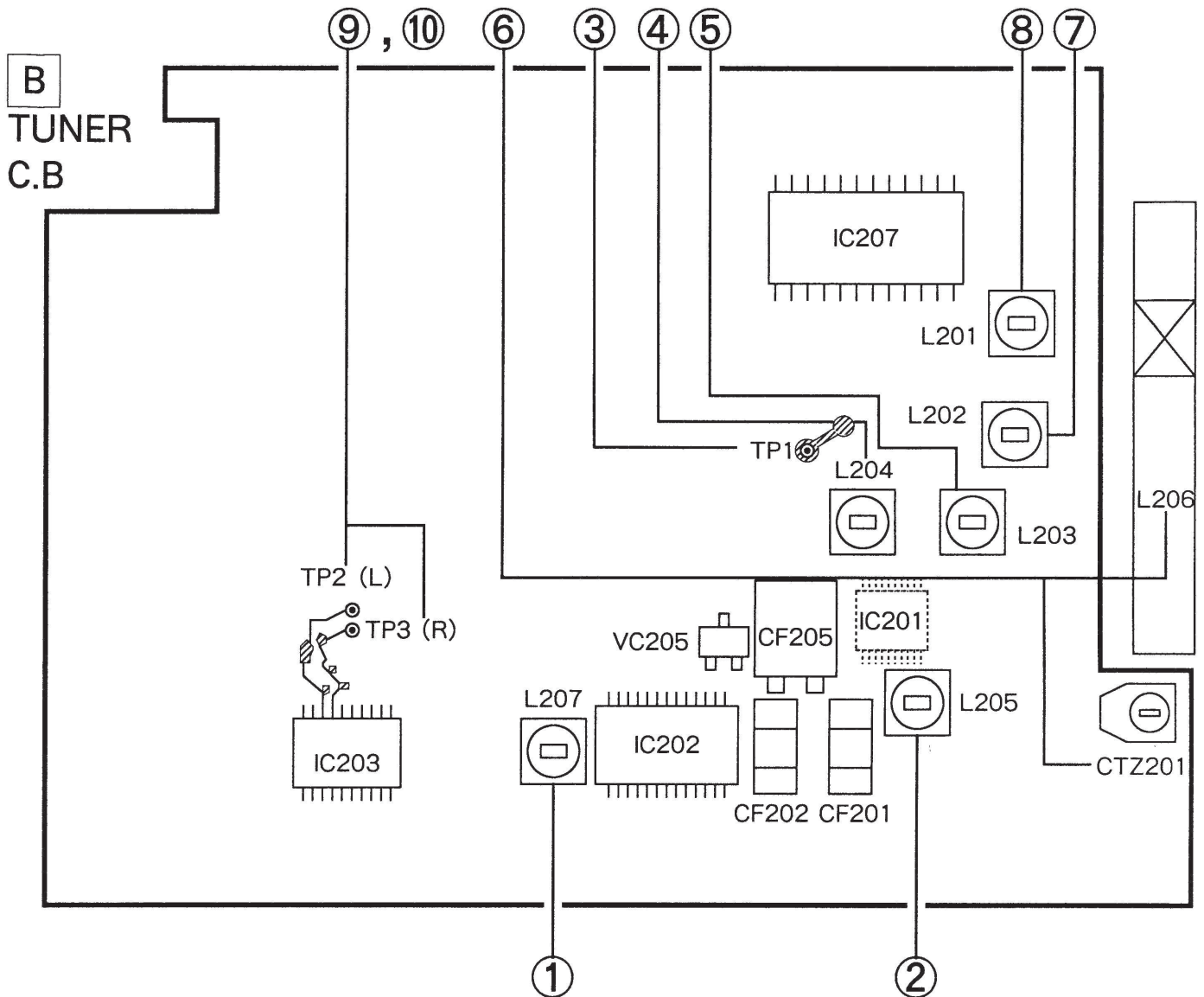
ADJUSTMENT – 1 (HS – JX707)



< RADIO SECTION >

1. AM IF Adjustment
L207450kHz
2. FM IF Adjustment
L205 10.7MHz
3. AM VT Check
Setting : • Test point : TP1
Method : • Set to AM522kHz and TP1, check the voltage for 0.7V~1.4V.
4. FM VT Adjustment
Setting : • Test point : TP1
• Adjustment location : L204
Method : • Set to FM 87.5MHz and adjust L204 so that the test point becomes 1.0V ~1.3V.
5. AM Tracking Adjustment
L206630kHz
CTZ2011440kHz
6. FM Tracking Adjustment
L202 87.5MHz
7. FM Separation Check
Setting : • Test point : TP2 (LCH), TP3 (RCH)
• SSG 89MHz, 54dB μ
Method : • Set to FM stereo check the separation for more 20dB.
8. BATT Light Level Indication Check
Setting : • Supply power to a charging battery terminal ASSY from a regulated power supply.
Method : • Decrease the output voltage of a regulated power supply for less 2V and check that it's voltage of below light.
2V : (Full)
1.90~1.95V : (Mid)
1.80~1.85V : (Emp)

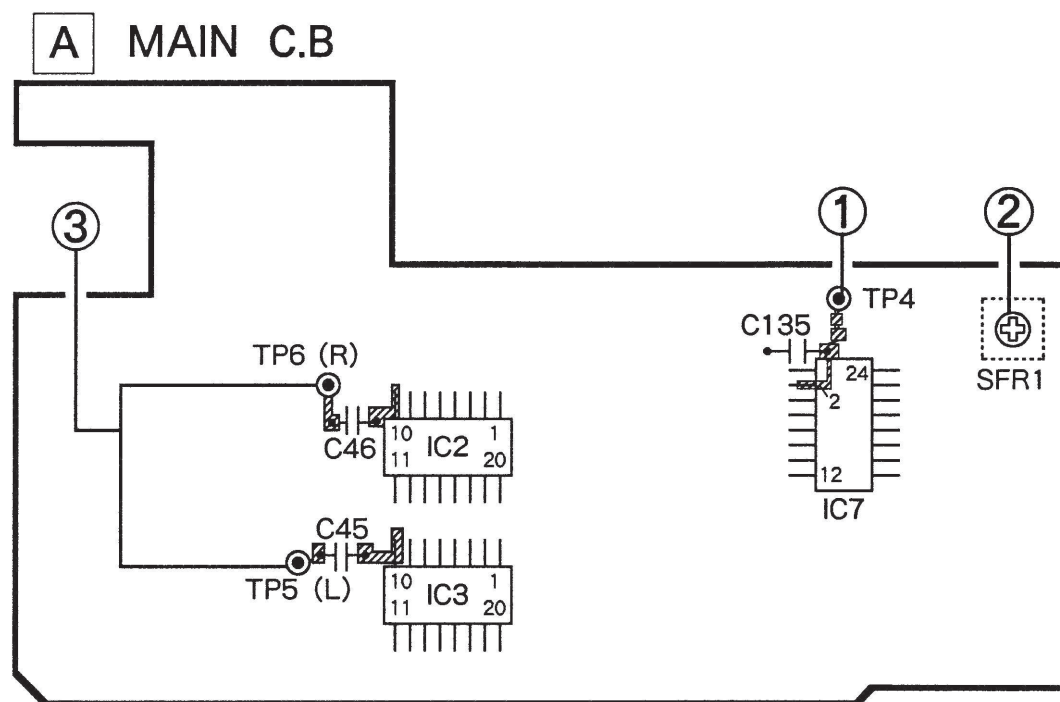
ADJUSTMENT - 2 (HS - JX707D)



< RADIO SECTION >

1. AM IF Adjustment
L207450kHz
2. FM IF Adjustment
L205 10.7MHz
3. AM VT Check
Setting : • Test point : TP1
Method : • Set to AM522kHz and TP1, check the voltage for 0.7V~1.4V.
4. FM VT Adjustment
Setting : • Test point : TP1
• Adjustment location : L204
Method : • Set to FM 76MHz and adjust L204 so that the test point becomes 1.0V ~1.3V.
5. TV VT Adjustment
Setting : • Test point : TP1
• Adjustment location : L203
Method : • Set to TV4CH and adjust L203 so that the test point becomes 1.2V ~1.5V.
6. AM Tracking Adjustment
L206630kHz
CTZ2011440kHz
7. FM Tracking Adjustment
L202 76MHz
8. TV Tracking Adjustment
L201 4CH (174MHz)
9. FM Separation Check
Setting : • Test point : TP2 (LCH), TP3 (RCH)
• SSG 77MHz, 54dB μ
Method : • Set to FM stereo check the separation for more 20dB.
10. TV Multi Stereo Separation Check
Setting : • Test point : TP2 (LCH), TP3 (RCH)
• SSG 175.75MHz (4CH), 54dB μ
Method : • Set to TV stereo, check the separation for more 22dB.
• Set to TV multi, check the separation for more 37dB.
11. BATT Light Level Indication Check
Setting : • Supply power to a charging battery terminal ASSY from a regulated power supply.
Method : • Decrease the output voltage of a regulated power supply for less 2V and check that it's voltage of below light.
2V : (Full)
1.90~1.95V : (Mid)
1.80~1.85V : (Emp)

ADJUSTMENT – 3



< TAPE RECORDER >

1. Clock Frequency Check

Setting : • Test point : TP4

Method : • Connect a resistor (1M Ω) to counter and TP4.

Check the frequency at TP4 is 3200Hz $\pm$ 160Hz.

2. Tape Speed Adjustment

Settings : • Test tape : TTA – 100 (TTA – 111S)

• Test point : PHONES JACK

• Adjustment location : SFR1

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

3. Dolby Level Check

Settings : • Test tape : TTS – 200 (TTA – 161, TCC – 130)

• Test point : TP5 (Lch), TP6 (Rch)

• DOLBY SW : OFF

• DSL SW : OFF

Method : • Connect an electrolytic capacitor (10 μ F / 16V) to measured equipment and TP5 (6), check the voltage for 100mV $\pm$ 10mV.

4. Azimuth Adjustment

This model is no azimuth adjustment.

PRACTICAL SERVICE FIGURE

< RADIO SECTION > HS – JX707

Sensitivity :

(IHF THD 3%) FM Less than 20dB (98.5MHz)

(S/N 10dB) AM Less than 60dB (999kHz)

Intermediate frequency : FM 10.7MHz

AM 450kHz

FM stereo separation : FM More than 17dB (1kHz)

< RADIO SECTION > HS – JX707D

Sensitivity :

(IHF THD 3%) FM Less than 20dB (90MHz)

TV Less than 22dB (4, 8, 12CH)

(S/N 10dB) AM Less than 60dB (999kHz)

Intermediate frequency : FM 10.7MHz

AM 450kHz

FM stereo separation : FM More than 17dB (1kHz)

< TAPE RECORDER SECTION >

Wow & flutter : Less than 0.45 % (RMS)

Pinch roller press : 160 ± 16 g-cm

Take-up torque : 22~35g-cm (FWD, REV)

F. F torque : 75~110g-cm

Rew torque : 65~100g-cm

S/N ratio : More than 45dB (PB)

Distortion : Less than 3.0 % (PB)

Noise level : Less than 4.0mV

(VOL MAX, DC)

Bias frequency : 54kHz

Frequency response : 63Hz~8kHz ± 3.5 dB (NORMAL)

63Hz~12.5kHz ± 4.5 dB

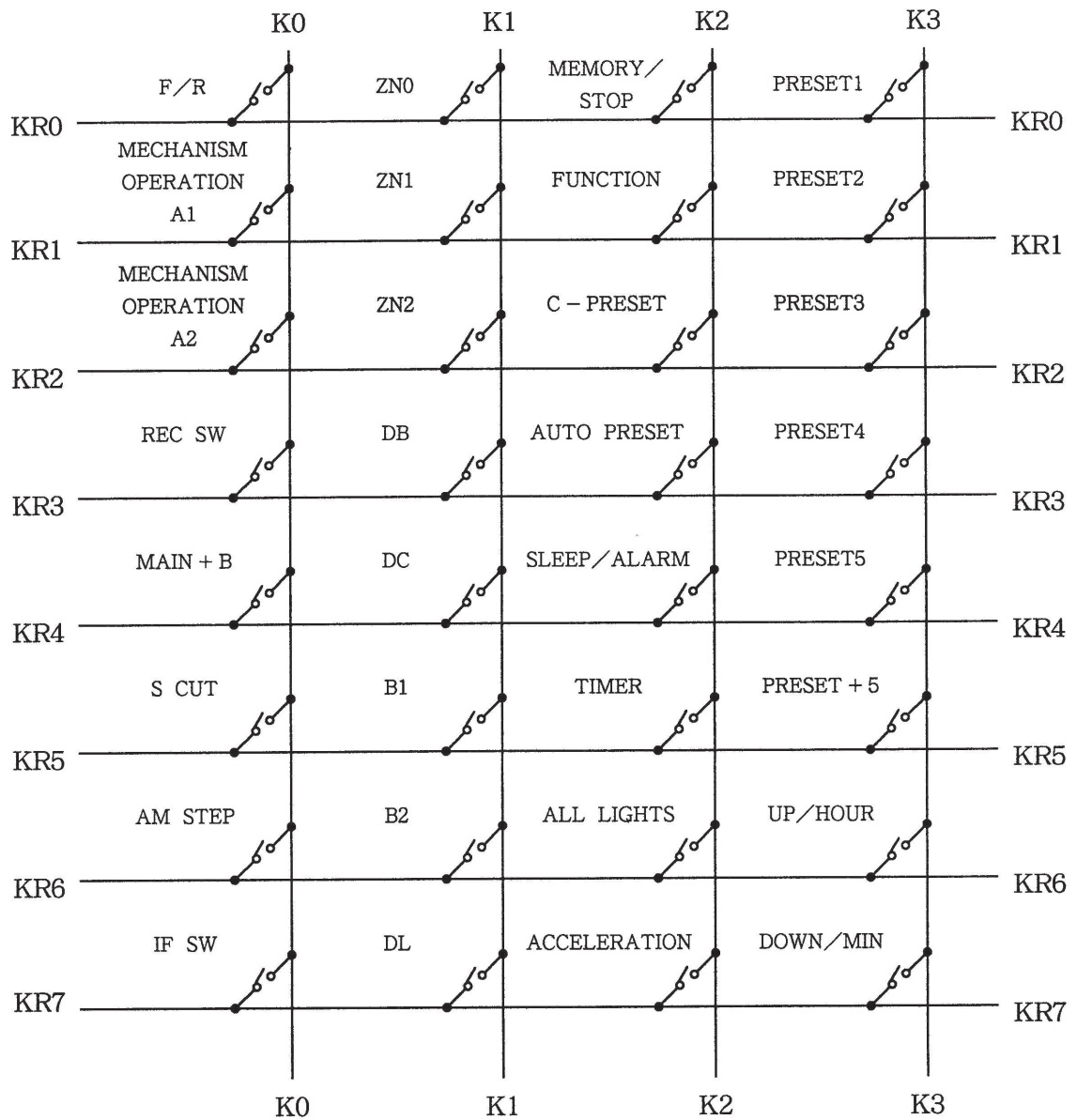
(CrO₂, METAL)

IC DESCRIPTION – 2
IC, TC9316F – 003 (JX707D)
IC, TC9316F – 004 (JX707)

Pin No.	Pin Name	I/O	Description
1~20	S1~S20	O	Segment outputs ... LCD drive outputs.
13~20	KR0~KR7	O	Key return outputs of the key matrix.
21	K0	I	Key return inputs of the key matrix.
22	K1		
23	NC	–	Unused.
24	K2	I	Key return input of the key matrix.
25	K3		
26	SEL0	O	Function select/mechanism operation outputs.
27	SEL1		
28	SEL2		
29	SEL3		
30	START OUT	O	Used for a spoken alarm (one “L” pulse is output when the function is switched and the mechanism is operated).
31	FM OUT	O	Goes “H” during FM reception.
32	AM OUT	O	Goes “H” during AM reception.
33	E0	–	Unused. (JX707D)
		I	Goes “H”. (JX707)
34	TV OUT	O	Goes “H” for channels 4 – 12. (JX707D)
	E1	I	Goes “L” in the general area (USA), others “H”. (JX707)
35	KEY OFF B	O	Goes “H” in the timer mode.
36	BUZER OUT	O	Outputs a beep (buzzer sound).
37	T1	I/O	Remote control inputs.
38	T2		
39	T3		
40	MUTE	O	Muting output.
41	IF IN	I	Auto-stop input. (During MUTE ON)
42	TU OUT	O	Goes “H” in the tuner mode.
43	D0	O	Error-out output of phase detector. Outputs a “L” pulse.
44	AM IN	I	AM OSC input.
45	PSC	O	PSC output.
46	FM IN	I	Input pin for the prescaler output.
47	GND	–	Connected to ground.

Pin No.	Pin Name	I/O	Description
48	$\overline{\text{INH}}$	I	Goes "H" to activate the PLL and "L" to stop it (backup mode).
49	TEST	–	Unused.
50	$\overline{\text{XT}}$	–	A crystal oscillator is connected.
51	XT		
52	$\overline{\text{INT}}$	–	Initializing input. "L" initializes the IC to the initial setting values and clears data from memory.
53	VDD	–	The power supply is connected.
54	VLCD	–	LCD boosting power supply.
55	C1	–	Capacitors are connected to boost power supply for the LCD.
56	C2		
57	C3		
58	COM1	O	Common outputs ... LCD drive outputs.
59	COM2		
60	COM3		

IC, TC9316F – 003, (– 004) KEY MATRIX



IC, TC9316F – 003, (– 004) TRUTH TABLE

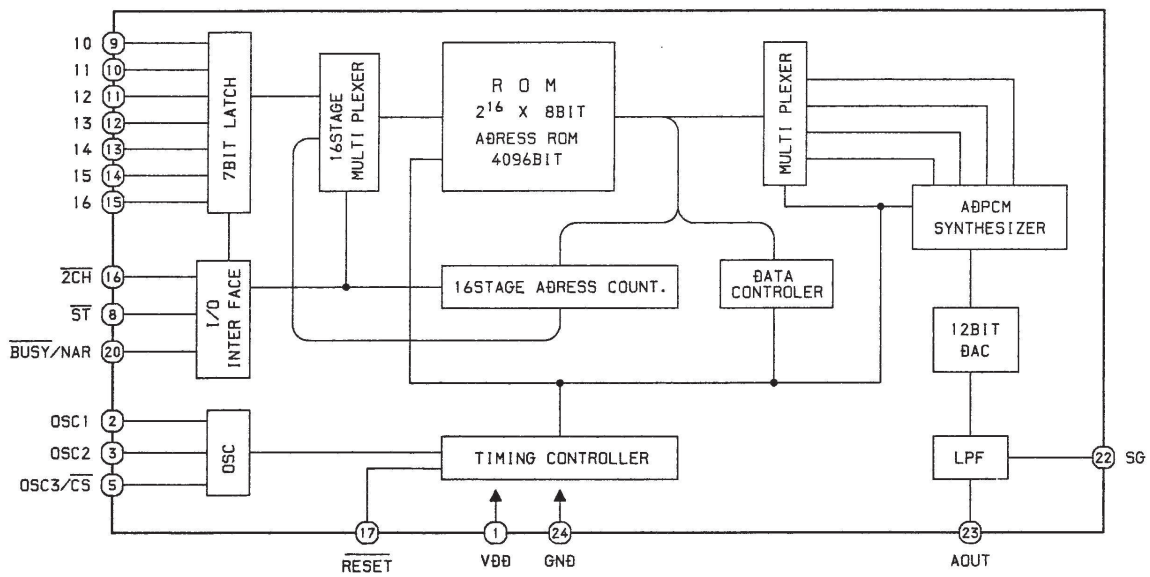
	T1	T2	T3
Standby mode	1	1	1
FUNCTION	0	0	0
STOP/DIRECTION	1	0	0
FF/UP	0	1	0
REW/C – PRESET	1	1	0
REC	0	0	1
PLAY	1	0	1
SLEEP STOP	0	1	1

IC, TC9316F – 003, (– 004) VOICE NAVIGATION TRUTH TABLE

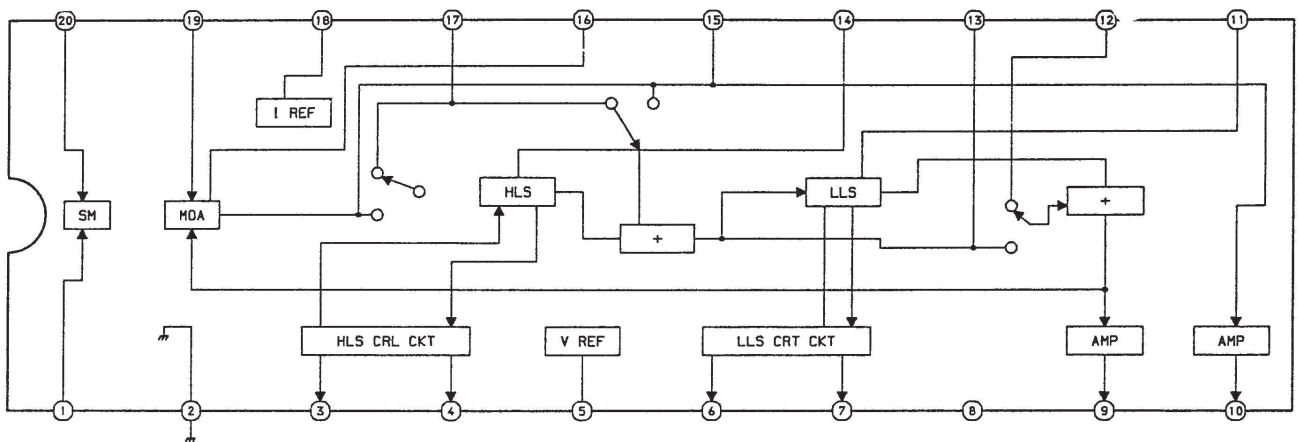
VOICE NAVIGATION		SEL0	SEL1	SEL2	SEL3
FWD	STOP	1	1	1	0
FWD	PLAY	1	0	1	0
FWD	FF	0	1	1	0
FWD	REW	0	0	1	0
FWD	REC	1	0	1	1
REV	STOP	1	1	0	0
REV	PLAY	1	0	0	0
REV	FF	0	1	1	0
REV	REW	0	0	1	0
REV	REC	1	0	0	1
AM		1	1	1	1
FM		1	1	0	1
TV (JX707D)		0	1	1	1

IC BLOCK DIAGRAM

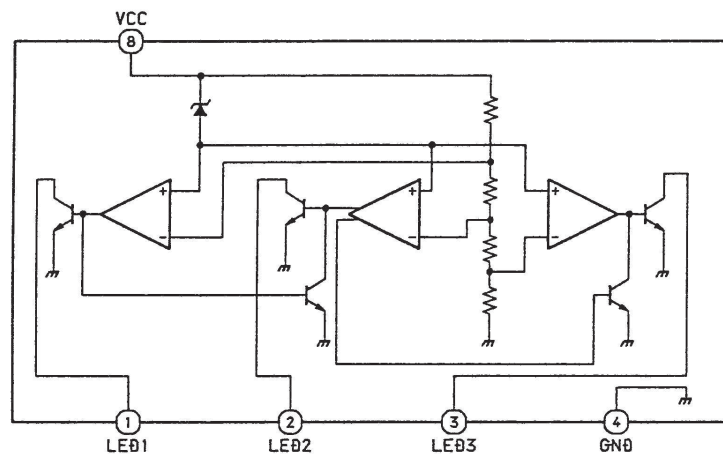
IC,MSM6374 – 534GS



IC,NJM2065AM

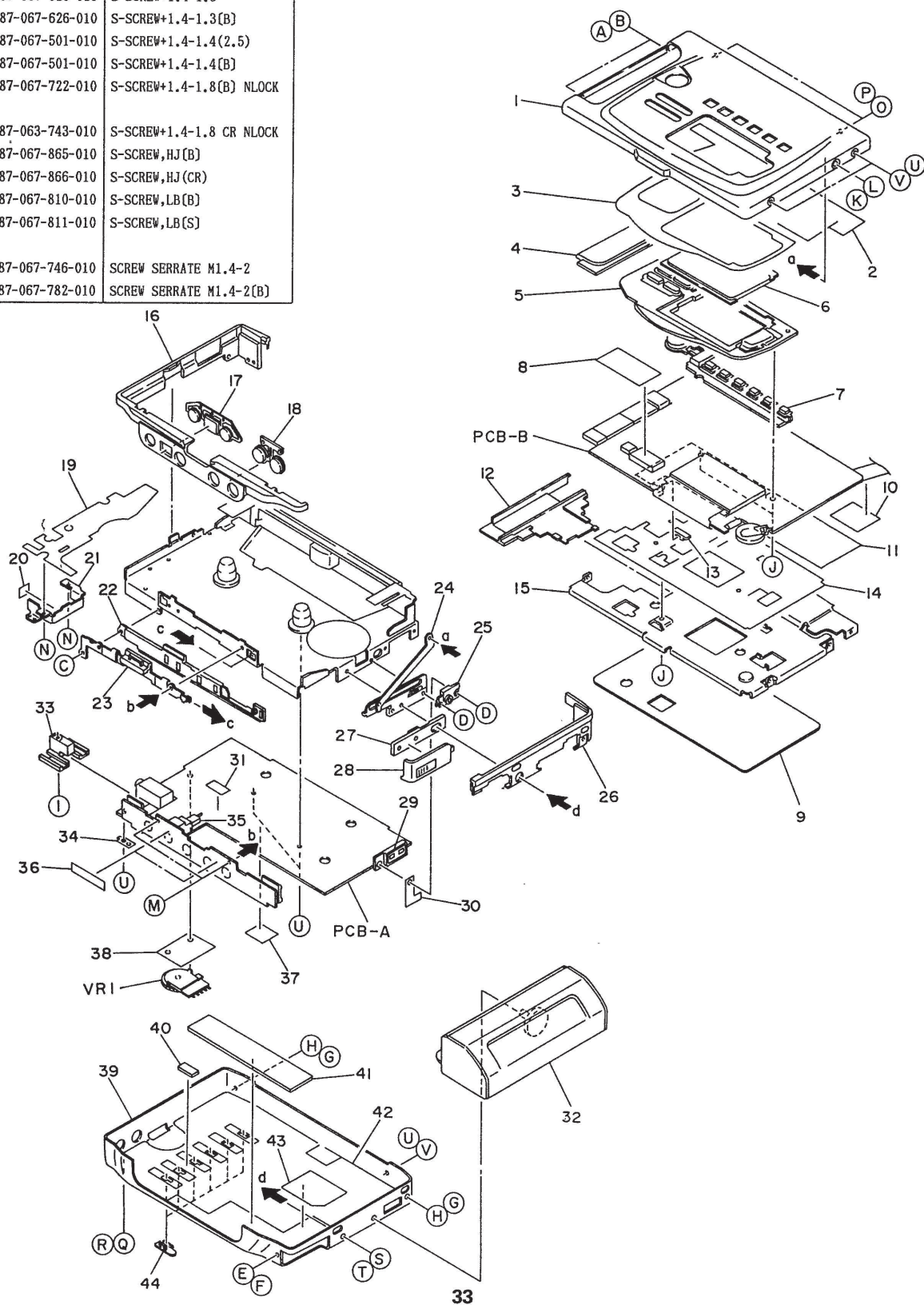


IC,MM1085 XF



EXPLODED VIEW - 1

REF.NO.	PART NO.	DESCRIPTION
A	87-067-588-010	V+1.4-1.4 CR NLOCK
B	87-067-589-010	V+1.4-1.4(B) NLOCK
C	87-263-503-310	V+1.4-2 CR
D	87-067-590-010	V+1.4-2 CR NLOCK
E	87-067-847-010	V+1.4-2.8(B) N
F	87-067-848-010	V+1.4-2.8 CR N
G	87-067-606-010	V+1.4-3.5 CR NLOCK
H	87-067-607-010	V+1.4-3.5 NLOCK(B)
I	87-067-855-010	V+1.4-7
J	87-067-535-010	VT1.4-3.5(C) HL
K	87-067-625-010	S-SCREW+1.4-1.3
L	87-067-626-010	S-SCREW+1.4-1.3(B)
M	87-067-501-010	S-SCREW+1.4-1.4(2.5)
N	87-067-501-010	S-SCREW+1.4-1.4(B)
O	87-067-722-010	S-SCREW+1.4-1.8(B) NLOCK
P	87-063-743-010	S-SCREW+1.4-1.8 CR NLOCK
Q	87-067-865-010	S-SCREW,HJ(B)
R	87-067-866-010	S-SCREW,HJ(CR)
S	87-067-810-010	S-SCREW,LB(B)
T	87-067-811-010	S-SCREW,LB(S)
U	87-067-746-010	SCREW SERRATE M1.4-2
V	87-067-782-010	SCREW SERRATE M1.4-2(B)

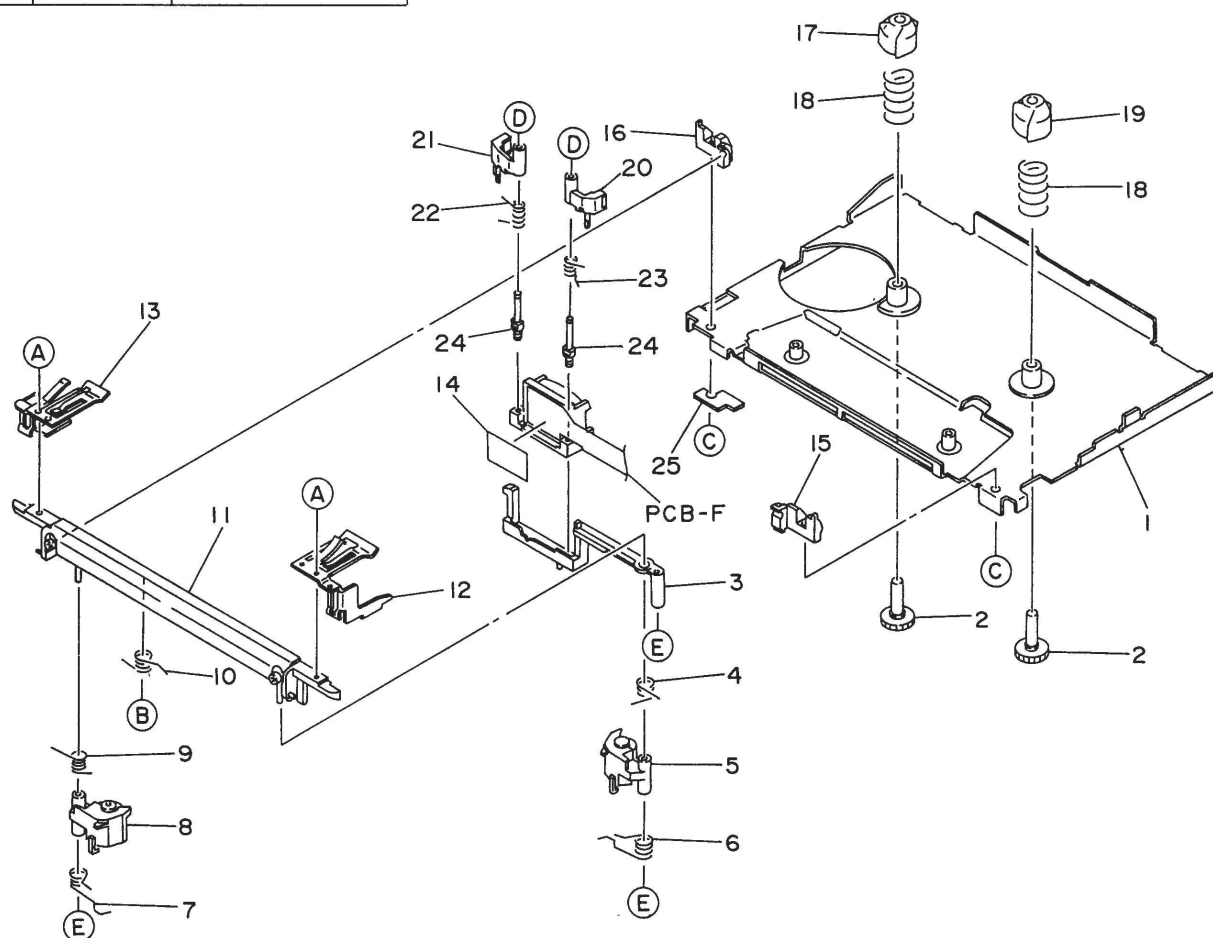


MECHANICAL PARTS LIST

PART NO. CHANGED TO	REF. NO.	PART NO.	DESCRIPTION	COMMON MODEL	Q, TY
1-1-7	★	09-027-890-010	LID, CASSETTE ASSY(DAH1)	*	1
1-1-7	★	09-027-891-010	LID, CASSETTE ASSY(AH1)	*	1
1-1		---	LID, CASSETTE	*	1
1-2		---	SHEET, CASSETTE	*	1
1-3		---	ADHESIVE, COVER	*	1
1-4		---	PANEL, CASSETTE	*	1
1-5		---	COVER, LCD	*	1
1-6		---	WINDOW, LCD	*	1
1-7		---	BUTTON, PRESET	*	1
1-8	★	81-HJ1-210-010	SHEET, 12-25	*	1
1-9	★	81-HJ1-031-010	LABEL, CAUTION	*	1
1-10	★	81-HJ1-211-010	SHEET, FLEX	*	1
1-11	★	81-HJ1-205-010	SHEET, TUNER	*	1
1-12	★	81-HJ1-202-010	HOLDER, ANTENNA	*	1
1-13	★	84-500-020-010	KNOB, SLIDE D		1
1-14	★	81-HJ1-204-010	SHEET, HOLDER	*	1
1-15	★	81-HJ1-201-110	HOLDER, CASSETTE	*	1
1-16	★	81-HJ2-004-110	FRAME, CENTER		1
1-17	★	81-HJ2-010-010	KEY, CONTROL A		1
1-18	★	81-HJ2-011-010	KEY, CONTROL B		1
1-19	★	81-HJ2-216-010	SHEET, CHASSIS		1
1-20	★	80-HJ1-238-010	SHEET, PT	*	1
1-21	★	81-HJ2-213-010	HOLDER, JACK		1
1-22	★	81-HJ2-211-010	HOLDER, BATTERY		1
1-23	★	81-HJ2-219-010	P-SPRING ASSY		1
1-24	★	81-HJ2-203-110	HOLDER ARM ASSY		1
1-25	★	81-HK3-216-010	NUT, BATTERY BOX		1
1-26	★	81-HJ2-005-110	PANEL, BOTTOM		1
1-27	★	81-HK3-215-110	HINGE, BATTERY		1
1-28		81-HJ2-006-010	LID, BATTERY		1
1-29	★	81-HK3-212-010	BATTERY CONTACT ASSY		1
1-30	★	81-HJ1-625-010	SHEET, EARTH	*	1
1-31	★	81-HK3-226-010	SHEET, 5-8-0.1		1
1-32	★	09-027-882-010	BATTERY BOX ASSY		1
1-33	★	81-HJ2-222-010	HOLDER, JACK M		1
1-34	★	81-HJ2-212-110	P-SPRING, EARTH		1
1-35	★	80-HK3-606-010	TERMINAL ASSY		1
1-36	★	81-HJ2-235-010	SHEET, 4-20		2
1-37	★	81-HJ1-208-010	SHEET, PCB	*	1
1-38	★	81-HJ2-226-110	SHEET, VOLUME		1
1-39	★	81-HJ1-028-110	CABINET, REAR(EXCEPT FOR DAH1)	*	1
1-39	★	81-HJ1-032-110	CABINET, REAR(DAH1)	*	1
1-40	★	81-HJ2-233-010	G-CUSHION, 4-8-0.5		1
1-41	★	81-HJ1-212-010	SHEET, BATTERY	*	1
1-42	★	81-HJ2-210-010	MYLAR, REAR CABINET		1
1-43	★	81-HJ2-223-110	MYLAR, REAR CABINET A		1
1-44	★	81-HJ2-014-010	KNOB, SLIDE		6

EXPLODED VIEW - 2

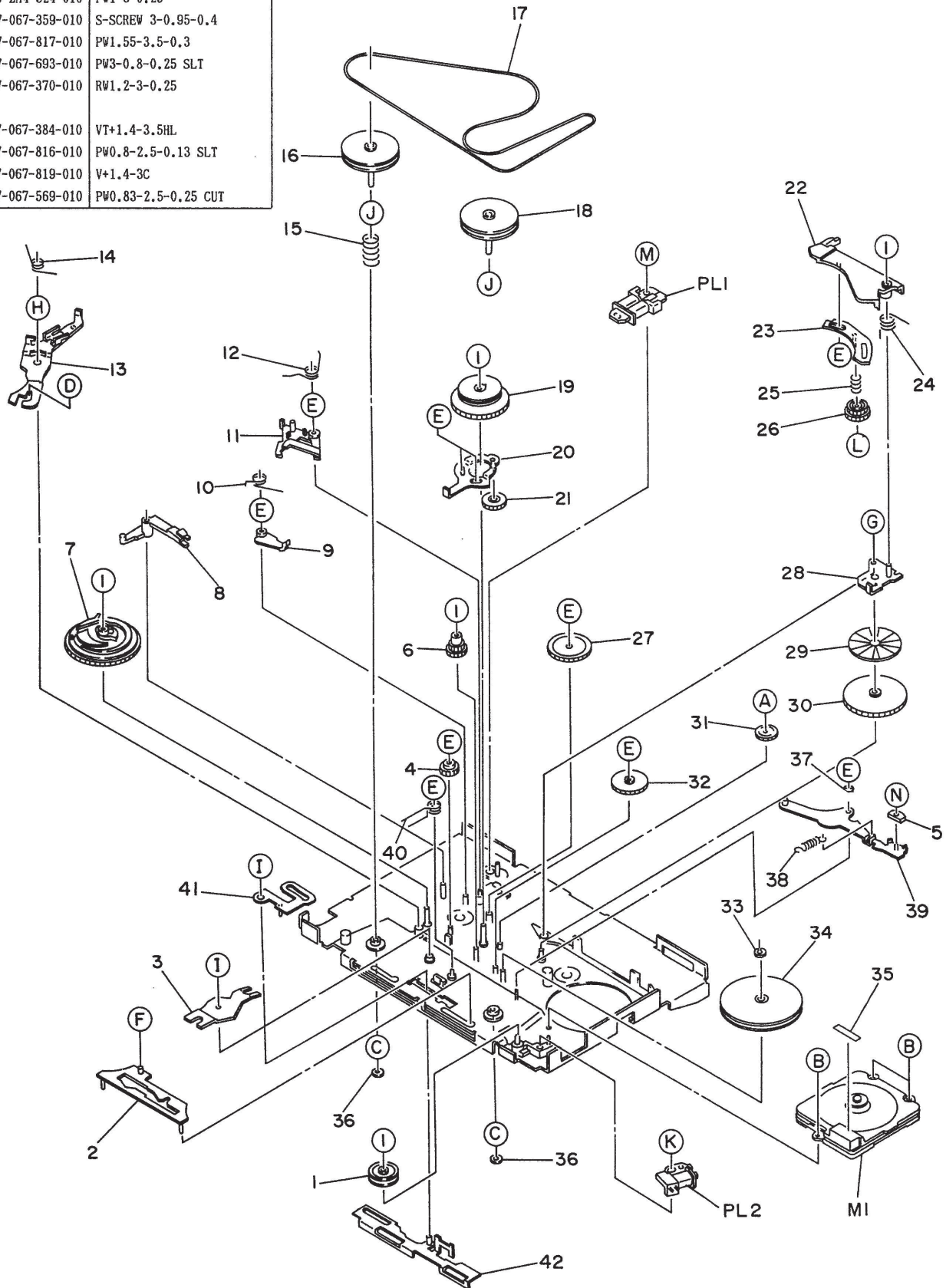
REF.NO.	PART NO.	DESCRIPTION
A	87-357-503-310	VT ₂ +1.4-2[G]
B	80-ZM4-346-010	VFT ₂ +1.4-2
C	87-353-528-310	VT ₂ +1.7-3.5CR
D	87-067-824-010	S-SCREW V+1.4-3.7
E	87-067-569-010	PW 0.83-2.5-0.25



PART NO. CHANGED TO	REF. NO.	PART NO.	DESCRIPTION	COMMON MODEL	Q. TY
	2-1	---	CHASSIS OUTSERT ASSY	*	1
	2-2	★ 80-ZM4-290-410	GEAR, REEL	*	2
	2-3	★ 80-ZM4-327-310	ARM, HEAD REC	*	1
	2-4	★ 80-ZM4-318-110	T-SPRING, PINCH BACK R	*	1
	2-5	★ 80-ZM4-254-610	LEVER PINCH R ASSY	*	1
	2-6	★ 80-ZM4-302-410	T-SPRING, PINCH JR	*	1
	2-7	★ 80-ZM4-297-310	T-SPRING, PINCH JL	*	1
	2-8	80-ZM4-247-610	LEVER PINCH L. ASSY	*	1
	2-9	★ 80-ZM4-317-210	T-SPRING, PINCH BACK L	*	1
	2-10	★ 80-ZM4-326-110	T-SPRING, ARM HEAD J	*	1
	2-11	★ 80-ZM4-209-210	HOLDER CASSETTE ASSY	*	1
	2-12	★ 80-ZM4-250-210	P-SPRING, HOLDER R	*	1
	2-13	★ 80-ZM4-251-210	P-SPRING, HOLDER L	*	1
	2-14	★ 80-ZM4-330-010	SHEET, 4.5-12	*	1
	2-15	★ 80-ZM4-321-210	HOLDER R	*	1
	2-16	★ 80-ZM4-322-310	HOLDER L	*	1
	2-17	★ 80-ZM4-230-110	REEL, CAP L	*	1
	2-18	★ 80-ZM4-283-310	C-SPRING, REEL	*	2
	2-19	★ 80-ZM4-231-010	REEL, CAP R	*	1
	2-20	★ 80-ZM4-294-010	ARM EH ASSY R	*	1
	2-21	★ 80-ZM4-293-010	ARM EH ASSY L	*	1
	2-22	★ 86-550-512-010	T-SPRING, EH BACK L		1
	2-23	★ 86-550-511-010	T-SPRING, EH BACK R		1
	2-24	★ 80-ZM4-267-110	SHAFT, EH	*	2
	2-25	★ 80-ZM4-333-010	PLATE A	*	1

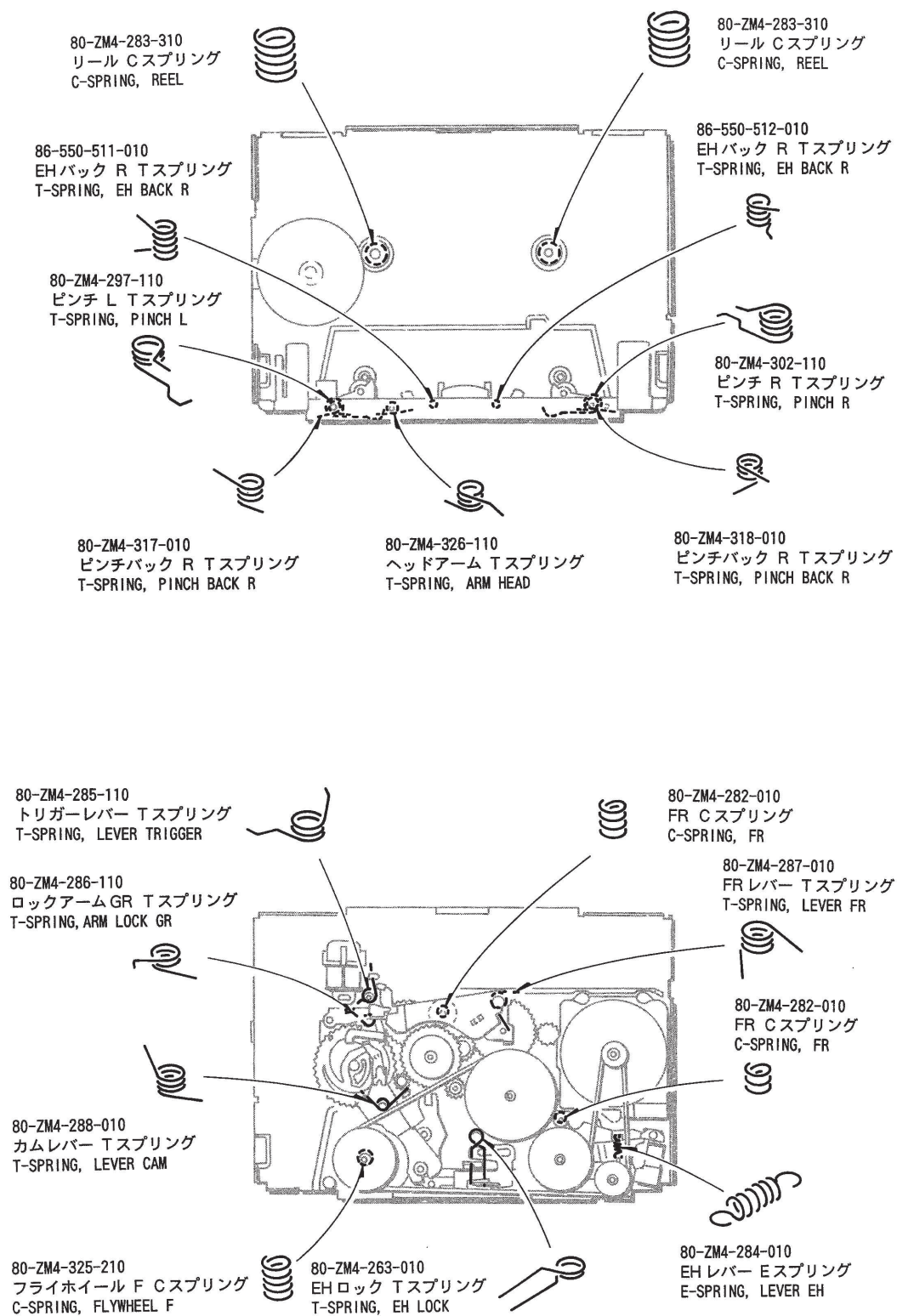
EXPLODED VIEW - 3

REF.NO.	PART NO.	DESCRIPTION
A	87-067-859-010	PW0.8-2.5-0.2 SLT
B	80-ZM4-332-010	S-SCREW 1.4-1.6
C	87-067-861-010	SOMA-SHEET 1.2-2.4-0.13
D	80-ZM4-334-010	PW1.15-3-0.25
E	87-067-860-010	PW3-0.95-0.4
F	80-ZM4-324-010	PW1-6-0.25
G	87-067-359-010	S-SCREW 3-0.95-0.4
H	87-067-817-010	PW1.55-3.5-0.3
I	87-067-693-010	PW3-0.8-0.25 SLT
J	87-067-370-010	RW1.2-3-0.25
K	87-067-384-010	VT+1.4-3.5HL
L	87-067-816-010	PW0.8-2.5-0.13 SLT
M	87-067-819-010	V+1.4-3C
N	87-067-569-010	PW0.83-2.5-0.25 CUT



PART NO. CHANGED TO	REF. NO.	PART NO.	DESCRIPTION	COMMON MODEL	Q. TY
3-1	★	80-ZM4-243-110	PULLEY, IDLER	*	1
3-2	★	80-ZM4-217-610	LEVER HEAD ASSY	*	1
3-3	★	80-ZM4-305-110	LINK PLAY ASSY	*	1
3-4	★	80-ZM4-232-010	GEAR, CAM PLAY	*	1
3-5	★	86-536-467-010	PLATE, MR2		1
3-6	★	80-ZM4-227-010	GEAR, LINK B	*	1
3-7	★	80-ZM4-235-210	GEAR, CAM	*	1
3-8	★	80-ZM4-219-110	ARM, LOCK FR	*	1
3-9	★	80-ZM4-274-210	ARM, LOCK GR	*	1
3-10	★	80-ZM4-286-110	T-SPRING, ARM LOCK GR	*	1
3-11	★	80-ZM4-225-110	LEVER, TRIGGER	*	1
3-12	★	80-ZM4-285-110	T-SPRING, LEVER TRIGGER	*	1
3-13	★	80-ZM4-221-610	LEVER CAM ASSY	*	1
3-14	★	80-ZM4-288-010	T-SPRING, LEVER CAM	*	1
3-15	★	80-ZM4-325-210	C-SPRING, FLYWHEEL F	*	1
3-16		80-ZM4-246-210	FLYWHEEL F ASSY	*	1
3-17		80-ZM4-257-010	BELT	*	1
3-18		80-ZM4-240-010	FLYWHEEL R ASSY	*	1
3-19	★	80-ZM4-245-510	GEAR SLIP ASSY	*	1
3-20	★	80-ZM4-218-110	LEVER GEAR PLAY ASSY	*	1
3-21	★	80-ZM4-233-010	GEAR, PLAY	*	1
3-22	★	80-ZM4-210-310	LEVER, LOCK FR	*	1
3-23	★	80-ZM4-222-210	LEVER, IDLER ASSY	*	1
3-24	★	80-ZM4-287-010	T-SPRING, LEVER FR	*	1
3-25	★	80-ZM4-282-010	C-SPRING, FR	*	1
3-26	★	80-ZM4-234-110	GEAR, FR	*	1
3-27	★	80-ZM4-228-010	GEAR, IDLER R	*	1
3-28	★	80-ZM4-259-010	PLATE FR ASSY	*	1
3-29		--	SHEET, AUTO		1
3-30	★	80-ZM4-229-010	GEAR, IDLER L	*	1
3-31	★	80-ZM4-244-010	GEAR, IDLER PLAY	*	1
3-32	★	80-ZM4-226-110	GEAR, LINK A	*	1
3-33	★	80-ZM4-329-110	SHEET, 3-0.8-0.25	*	1
3-34	★	80-ZM4-239-010	PULLEY GEAR ASSY	*	1
3-35	★	80-ZM4-331-010	SHEET, 8.5-2-0.15	*	1
3-36	★	86-550-455-010	SHEET, CUT 0.87-2.25-0.25		2
3-37	★	80-ZM4-349-010	SHEET, 1.53-3.5-0.5	*	1
3-38	★	80-ZM4-284-110	E-SPRING, LEVER EH	*	1
3-39	★	80-ZM4-261-010	LEVER REC PL ASSY	*	1
3-40	★	80-ZM4-263-010	T-SPRING, LOCK EH	*	1
3-41	★	80-ZM4-258-210	LEVER REC LINK ASSY	*	1
3-42	★	80-ZM4-262-110	LEVER REC EH ASSY	*	1
3-43	★	80-536-467-010	PLATE, MR2		1

SPRING APPLICATION POSITION



■ ACCESSORIES/PACKAGE LIST

PART NO. CHANGED TO	REF. NO.	PART NO.	DESCRIPTION	COMMON MODEL	Q,TY
	1	★81-HJ1-906-010	INSTRUCTION BOOKLET EX (707)	※	1
	2	★81-HJ1-905-110	INSTRUCTION BOOKLET EX (D) (707D)	※	1
	3	★81-HJ1-951-010	REMOTE CONTROLLER RC - J70	※	1
	4	★87-041-056-010	MIC, CM - S20		1
	5	★81-HJ1-952-010	CARRYING CASE EX	※	1
	6	★87-047-109-010	PB - S5Y		1
	7	★09-027-882-010	BATTERY BOX ASSY [J - B]		1
	8	★87-009-724-010	PLUG, ADPTR,IR39 (707D)		1
	9	★87-042-079-010	METAL,FTG - A (707D)		1
	10	★87-042-083-110	AC - 209H (H)		1
	11	★87-042-084-110	AC - 209U/C (U,C)		1
	12	★87-042-085-110	AC - 209E (E,Z)		1
	13	★87-042-086-110	AC - 209K (K)		1
	14	★87-042-080-210	AC - 209W (707D)		1
	15	87-048-198-010	HP - 19N (BK) (H1,E1,K1,707D)		1
	16	87-048-213-019	HP - A270 (U,C,E,Z)		1