

# SERVICE MANUAL

---

CASSETTE RECORDER

BASIC TAPE MECHANISM : 6ZM-2 M1NF

---

- This Service Manual is the "Revision Publishing" and replaces "Simple Manual" TP-VS805(Y), (S/M Code No. 09-006-435-1T1).

## SPECIFICATIONS

<b>Track system:</b>	2 tracks 1 channel, monaural		
<b>Frequency response:</b>	250-8000 Hz (4.8 cm/sec) EIAJ		
<b>Microphone:</b>	Electret condenser microphone (monaural)		
<b>Maximum output:</b>	280mW (EIAJ/DC)		
<b>Input jack:</b>	EXT MIC jack (monaural mini-jack) (1)		
<b>Output jack:</b>	EARPHONE jack (monaural mini-jack) (1)		
<b>Other jack:</b>	DC 3 V jack		
<b>Speaker:</b>	Diameter 36 mm, 8 ohms		
<b>Recording system:</b>	DC bias		
<b>Erasing system:</b>	DC erasure		
<b>Recording speed:</b>	Approx. 4.8 cm/sec. with the REC MODE switch set to NORMAL Approx. 2.4 cm/sec. with the REC MODE switch set to EXTENDED		
<b>Power source:</b>	DC 3V using two R6 (size AA) dry cell batteries AC house current using the AC adaptor (Aiwa AC-D302)		
<b>Battery life:</b>	Battery	EIAJ Recording	EIAJ 10mW
	Manganese batteries (R6P)	Approx. 8.5 hours	Approx. 6 hours
	Alkaline batteries (LR6)	Approx. 20 hours	Approx. 15 hours
<b>Maximum outside dimensions (W x H x D):</b>	109.3 (W) x 30.1 (H) x 79.8 (D) mm (excluding projecting parts and controls) ( $4\frac{3}{8} \times 1\frac{3}{16} \times 3\frac{1}{4}$ in)		
<b>Weight:</b>	Approx. 190.8 g (6.7 oz) (excluding batteries)		

• Design and specifications are subject to change without notice.

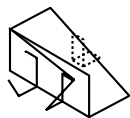
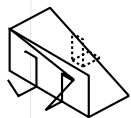
## ACCESSORIES / PACKAGE LIST

REF.NO.	PART NO.	KANRI NO.	DESCRIPTION
1	8A-HT2-851-010	1B	COVER, SLIDE S<D>
2	8A-HT2-908-010	OE	IB, D<D>
2	8A-HT2-905-010		IB, Y (EGF) S<Y>
2	8A-HT2-907-010		IB, Y (PHNCZ) S<Y>
2	8A-HT2-906-010		IB, Y (SID) S<Y>
3	87-PD3-050-010	1B	STRAP, HAND
4	8A-HT2-026-010	1H	RC UNIT, MIC/REMOTE<D>
4	8A-HT2-027-010		RC UNIT, MIC/REMOTE Y<Y>

# ELECTRICAL MAIN PARTS LIST

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
<b>IC</b>				C208	87-010-831-080	0E	C-CAP,U,0.1-16F
	87-A21-657-080	1E	C-IC,AN7086S	C209	87-A10-262-080	0E	C-CAP,U 1-10 ZF
	87-A21-658-010	1H	C-IC,TC9318FB-061	C210	87-010-831-080	0E	C-CAP,U,0.1-16F
	87-A21-566-040	1A	C-IC,S-80820ANNP	C213	87-A10-262-080	0E	C-CAP,U 1-10 ZF
	87-A20-532-140	1D	C-IC,LB1977M-TLM	C303	87-A10-504-080	0E	C-CAP,U 0.047-16 K B
<b>TRANSISTOR</b>				C304	87-A10-504-080	0E	C-CAP,U 0.047-16 K B
	87-026-429-040	0E	C-TR,RN2311	C305	87-A10-504-080	0E	C-CAP,U 0.047-16 K B
	87-026-414-080	0E	C-TR RN1307	C306	87-A10-828-080	0E	C-CAP,U 0.33-6.3 K B
	89-508-804-080	1A	CHIP FET 2SK880Y	C308	87-A10-263-080		C-CAP,U 0.1-16ZF<Y>
	87-026-418-080	0E	TR,RN1311 (0.1W)	C308	87-010-831-080	0E	C-CAP,U,0.1-16F<D>
	87-026-411-080	0E	C-TR RN1304	C309	87-A10-827-080	0E	C-CAP,U 0.47-6.3 K B
	89-327-125-080	0E	CHIP TRANSISTOR 2SC2712GR	C310	87-A10-504-080	0E	C-CAP,U 0.047-16 K B
	89-341-165-080	0E	CHIP TRANSISTOR 2SC4116GR	C401	87-010-831-080	0E	C-CAP,U,0.1-16F
	89-113-625-080	0E	TR,2SA1362GR	C402	87-010-831-080	0E	C-CAP,U,0.1-16F
	89-341-164-080	0E	CHIP-TRANSISTOR,2SC4116 Y	C403	87-016-396-080	0E	C-CAP,U 0.22-16F
	89-333-266-080	0E	C-TR,2SC3326B	C501	87-010-503-040	0E	CAP,E 220-4 GAS
	87-A30-184-070	0E	C-FET,2SJ106Y	C503	87-010-502-040	0E	CAP ELECT GAS 100/4
	87-A30-179-010	1B	FET,2SJ107GR	CN201	87-A61-155-080	1B	C-CONN,30P H XF2H-3015-1
	89-115-864-080	0E	CHIP TRANSISTOR 2SA1586Y	FC201	8A-HT2-612-010	1B	PWB,FLEX MAIN
<b>DIODE</b>				J101	84-TM1-640-010	1B	JACK,3.5 HSHJ1494-02
	87-001-165-080	0E	DIODE,1SS300 (100MA)	J102	87-A61-032-010	1A	JACK,3.5 BLK ST W/SW HSHJ1494
	87-017-799-080	0E	C-DIODE,1SS352	J501	87-A60-849-010	0E	JACK,DC DIA 2.75 BLK
	87-001-167-080	0E	DIODE,1SS302 (100MA)	PS201	87-A90-440-010	1A	SNSR,PHOTO GP2S24N2-B
	87-A40-822-040	0E	C-DIODE,CRS01	S131	87-036-379-180	0E	C-SW,SL1-1-2 SS350
<b>MAIN C.B</b>				S151	87-036-379-180	0E	C-SW,SL1-1-2 SS350
C101	87-016-317-080	0E	C-CAP,TN 2.2-6.3	S201	87-A91-457-080	1C	C-SW,SL 1-1-3 SS-350-A13B-C-T
C102	87-016-317-080	0E	C-CAP,TN 2.2-6.3	S202	87-A91-421-010	1A	SW,LEAF 6ZM-2 (H)
C104	87-012-283-080	0E	C-CAP,U 5600P-50 B	S203	87-A90-361-010	1A	SW,PUSH SPPB51-H11.3
C105	87-010-787-080	0E	CAP, U 0.022-25	S204	87-A91-365-080	1A	C-SW,PUSH 1-1-1 SPVG21
C106	87-016-317-080	0E	C-CAP,TN 2.2-6.3	S205	87-HJ3-608-010	1B	SW,LEAF REC ASSY
C107	87-A10-952-080	0E	C-CAP,TN 22-4 M A MCM	S206	87-HJ3-608-010	1B	SW,LEAF REC ASSY
C108	87-010-746-080	1A	CAP, TANTAL 10-4	SFR301	87-A91-653-040	0E	C-SFR,K 33K H RH03AEC
C109	87-010-673-080	0E	CAP, ELECT 100-2	SFR302	87-A91-797-040	0E	C-SFR,10K B RH03AEC14X
C110	87-016-431-080	0E	C-CAP,E 220-4 5.5N	TH301	87-A90-477-080	0E	C-THMS,157-502-53002-TP
C111	87-010-788-080	0E	C-CAP,U 0.033-2.5F	TH302	87-A90-477-080	0E	C-THMS,157-502-53002-TP
C112	87-010-746-080	1A	CAP, TANTAL 10-4	VR101	87-024-655-010	1B	VR,20KC DIA14
C113	87-016-396-080	0E	C-CAP,U 0.22-16F	VR301	87-A91-822-010	1A	VR,RTRY 10KB H XV081PH1NCC-305
C114	87-016-396-080	0E	C-CAP,U 0.22-16F	X201	87-A70-187-010	1B	VIB,XTAL 75KHZ CFV206
C115	87-012-286-080	0E	CAP, U 0.01-25	<b>SWITCH C.B</b>			
C116	87-016-562-080	0E	C-CAP,TN 4.7-10 SV A	C701	87-016-396-080	0E	C-CAP,U 0.22-16F
C117	87-016-317-080	0E	C-CAP,TN 2.2-6.3	CN701	87-A61-155-080	1B	C-CONN,30P H XF2H-3015-1
C118	87-016-350-040	0E	CAP ELECT 470-4 M 5L MA	D701	87-A91-355-040	0E	C-LED,BR1112H-TR-RED
C119	87-A10-703-080	1A	C-CAP,TN 47-2.5 M A	LCD701	8A-HT2-604-010	1B	LCD,AHT-2
C120	87-010-502-040	0E	CAP ELECT GAS 100/4	MIC701	82-TP3-609-010	1A	ECM,KUB2823
C121	87-A10-703-080	1A	C-CAP,TN 47-2.5 M A	S701	87-A90-665-280	0E	C-SW,TACT LS7A2M
C122	87-010-831-080	0E	C-CAP,U,0.1-16F	S702	87-A90-665-280	0E	C-SW,TACT LS7A2M
C123	87-012-335-080	0E	C-CAP,U 270P-50 SL	S703	87-A90-665-280	0E	C-SW,TACT LS7A2M
C131	87-010-788-080	0E	C-CAP,U 0.033-25 Z F	S704	87-A90-665-280	0E	C-SW,TACT LS7A2M
C132	87-A21-319-010	0E	C-CAP,U 0.1-25 K B	S705	87-A90-665-280	0E	C-SW,TACT LS7A2M
C133	87-010-503-040	0E	CAP,E 220-4 GAS	S706	87-036-203-180	1A	C-SW,SL1-1-3 SSSS81
C134	87-010-505-080	0E	CA, CHIP TANTALUM 1-16	S707	87-A90-665-280	0E	C-SW,TACT LS7A2M
C135	87-010-746-080	1A	CAP, TANTAL 10-4	S708	87-A90-665-280	0E	C-SW,TACT LS7A2M
C137	87-012-335-080	0E	C-CAP,U 270P-50 SL	S709	87-036-379-180	0E	C-SW,SL1-1-2 SS350
C138	87-012-274-080	0E	CHIP CAP,U 1000P-50B	S710	87-036-379-180	0E	C-SW,SL1-1-2 SS350
C151	87-010-502-040	0E	CAP ELECT GAS 100/4	SP701	87-A91-821-010	1D	SPKR,36 80HM 0.8W 36L8B8W
C152	87-A10-263-080		C-CAP,U 0.1-16ZF<Y>	<b>RP HEAD FLEX C.B</b>			
C152	87-010-831-080	0E	C-CAP,U,0.1-16F<D>	<b>E HEAD FLEX C.B</b>			
C201	87-010-831-080	0E	C-CAP,U,0.1-16F				
C202	87-010-831-080	0E	C-CAP,U,0.1-16F				
C203	87-012-174-080	0E	CAP CHIP CERA SS 12P CHJ				
C204	87-012-176-080	0E	CAP 15P				
C205	87-A10-706-080	0E	C-CAP,U 0.33U-16 F Z				
C206	87-010-831-080	0E	C-CAP,U,0.1-16F				
C207	87-010-831-080	0E	C-CAP,U,0.1-16F				

# TRANSISTOR ILLUSTRATION



1/16W

1005

± 5%

Symbol  
CJ

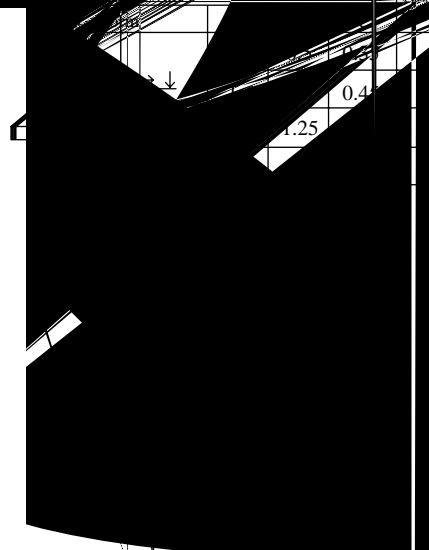
: A  
: A

104

108

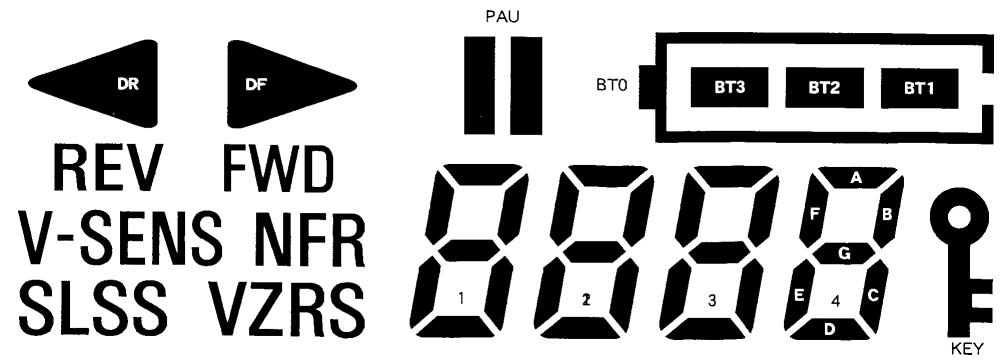
118

128



LCD DISPLAY

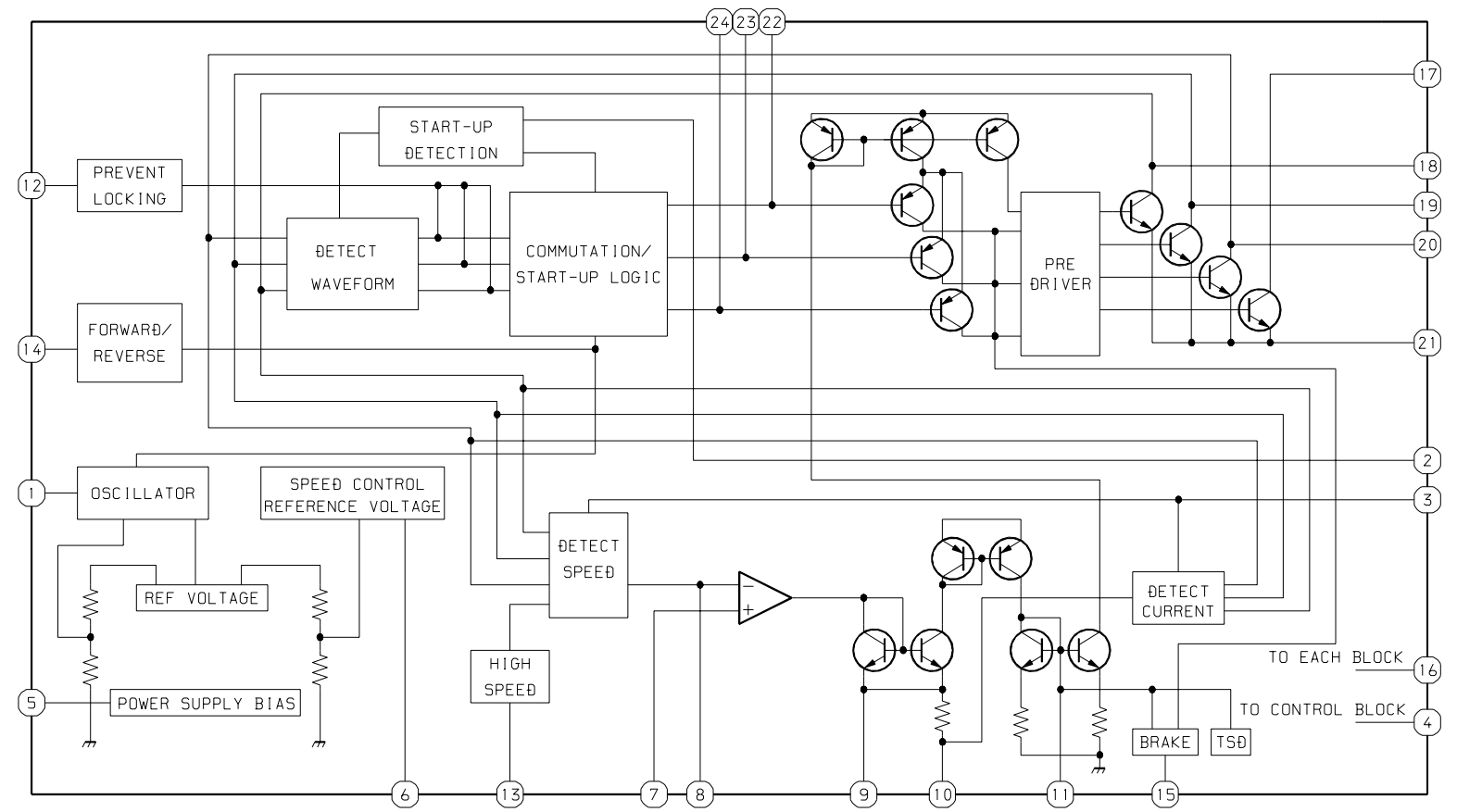
LCD,AHT-2

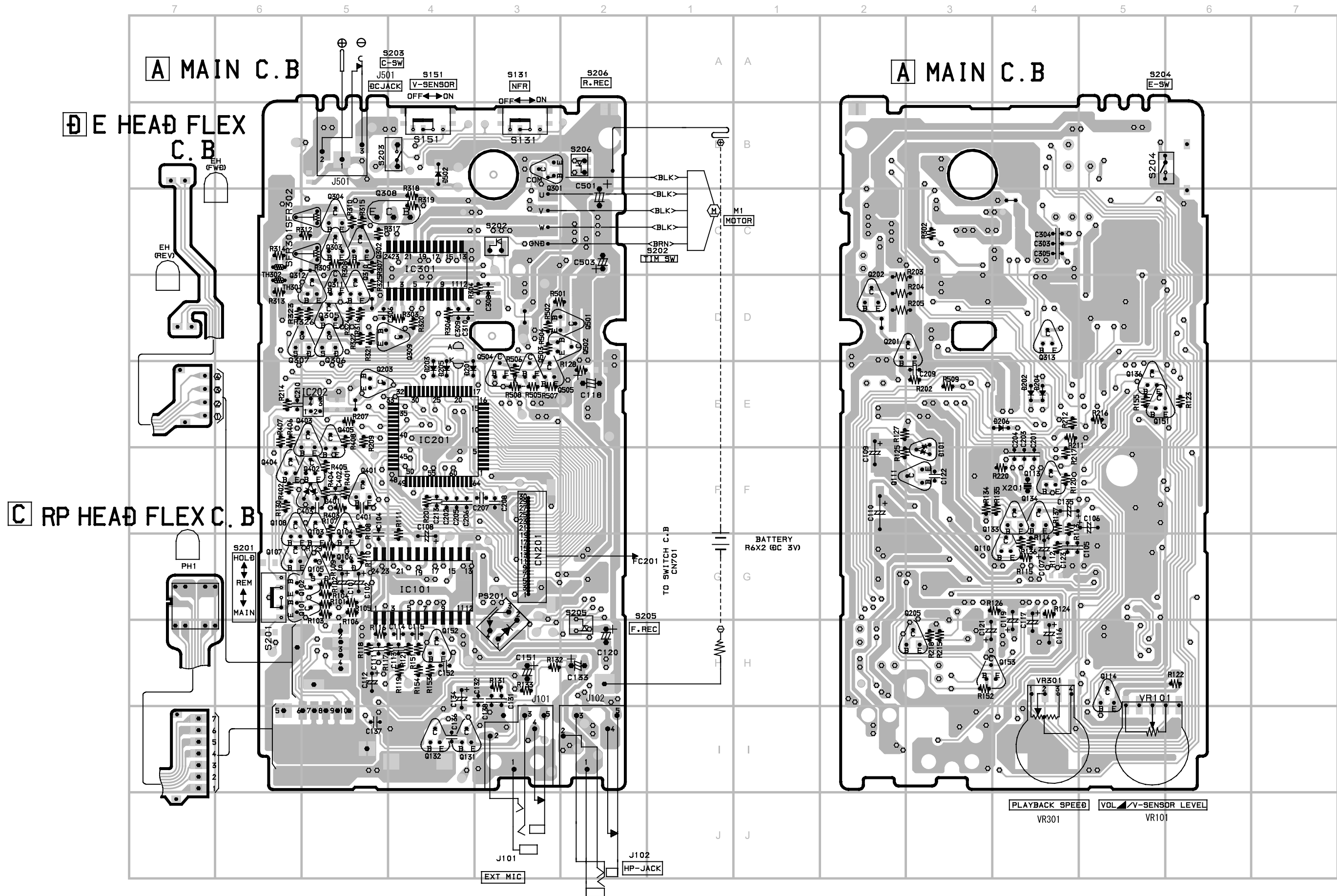


NO	COM1	COM2	COM3
1	COM1	—	—
2	—	COM2	—
3	—	—	COM3
4	4D	4C	KEY
5	4E	4G	4B
6	BT1	4F	4A
7	BT2	3C	3B
8	BT3	3E	3F
9	BT0	2C	2B
10	PAU	2E	2F
11	DF	1C	1B
12	DR	1E	1F
13	REV	VZRS	FWD
14	V-SENS	SLSS	NFR
15	1D	1G	1A
16	2D	2G	2A
17	3D	3G	3A

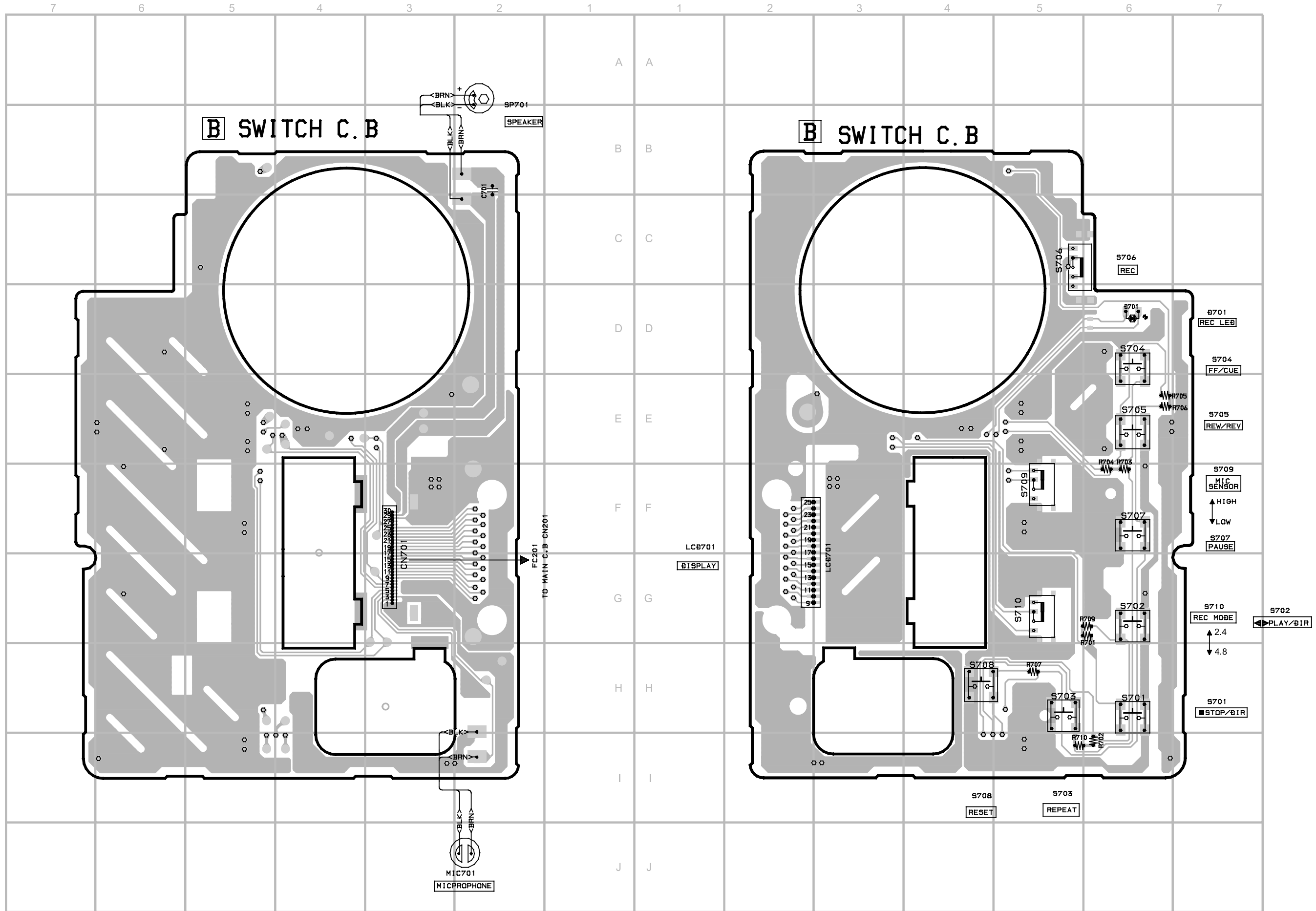
IC BLOCK DIAGRAM

IC. LB1977M-TLM

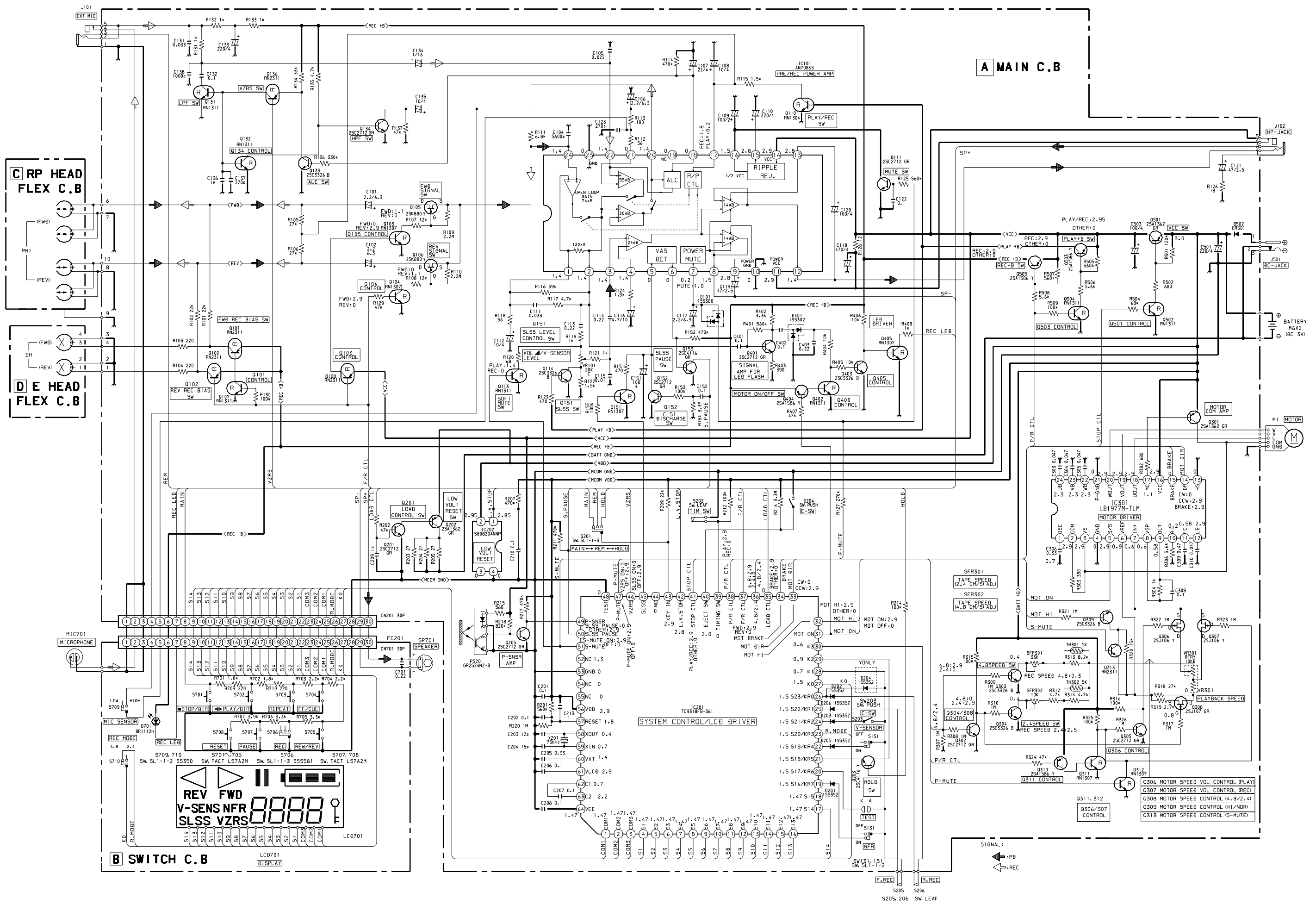




WIRING-2 (SWITCH)



SCHEMATIC DIAGRAM (MAIN / SWITCH / RP HEAD FLEX / E HEAD FLEX)





## ADJUSTMENT

### 1. Tape Speed (4.8 cm/s) Adjustment 1

Settings : • Test tape : TTA-100 (TAPE CENTER)

- Test point : PHONES JACK (J102)
- Adjustment location : SFR301
- PAUSE : OFF
- REC MODE SW : NORM (4.8 cm/s)
- VOLUME : Maximum
- TAPE SPEED : Normal (Speed volume center)

Method : Play back the test tape and adjust SFR301 for 3000 Hz  $\pm$  10 Hz (FWD). Then confirm that the speed at the reverse side is FWD speed  $\pm$  45 Hz (REV). Then the confirm wow is less than 0.55 %.

### 2. Tape Speed (2.4 cm/s) Adjustment 2

Settings : • Test tape : TTA-160 (TAPE CENTER)

(6 kHz tape)

- Test point : PHONES JACK (J102)
- Adjustment location : SFR302
- PAUSE : OFF
- REC MODE SW : EXT (2.4 cm/s)
- VOLUME : Maximum
- TAPE SPEED : Normal (Speed volume center)

Method : Play back the test tape and adjust SFR302 for 3000Hz  $\pm$  10 Hz. Then the confirm wow is less than 1.0%.

## IC DESCRIPTION

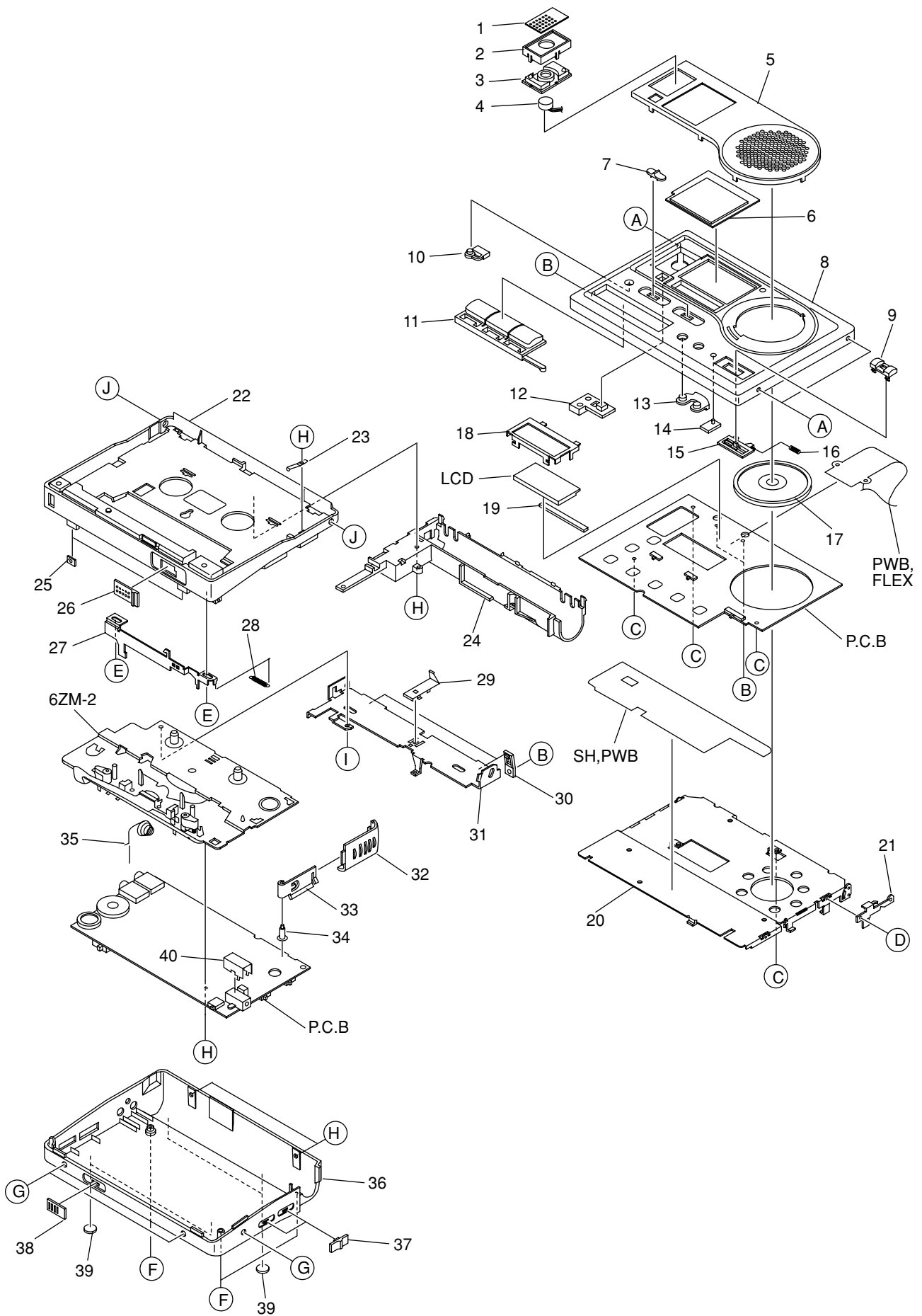
IC, TC9318FB-061

Pin No.	Pin Name	I/O	Description
1 ~ 3	COM1 ~ COM3	O	LCD driver common.
4 ~ 18	S1 ~ S15	O	LCD driver output.
19	S16/KR7	O	LCD driver output/Key return.
20 ~ 26	S17/KR6 ~ S23/KR0	O	LCD driver output (not used)/Key matrix timing output.
27 ~ 30	K0 ~ K3	I	Key matrix input.
31	MOT ON	O	Motor activation control. H : ON L : OFF.
32	MOT HI	O	Motor speed control. H : HI L : LO.
33	MOT DIR	O	Motor rotate direction control. H : CCW L : CW.
34	MOT BRAKE	O	Motor brake control. H : ON L : OFF.
35	LOAD CTL	O	Battery capacity check signal output. H : ON.
36	4.8/2.4	O	Tape speed control. H : 4.8 L : 2.4.
37	F/R CTL	O	FWD/REV control. H : FWD L : REV.
38	P/R CTL	O	Record/Playback power control. H : PLAY L : REC.
39	TIMING SW	I	Mecha status detection switch input.
40	EJECT SW	I	Mecha EJECT detection switch input.
41	STOP CTL	O	AMP power control signal output. H : ON L : OFF.
42	L.V.STOP	I	Reduction voltage detection signal input. L : Reduce voltage.
43	KEY IN	I	Main key input.
44	NC	I	Not connected.
45	SLSS	O	SLSS control signal output. H : SLSS disable L : SLSS enable.
46	VZRS	O	VZRS control signal output. H : VZRS disable L : VZRS enable.
47	P-MUTE	O	Mute signal output. H : ON L : OFF.
48	TEST	I	TEST mode control input. (connected to ground)
49	P-SNSR	I	Photo sensor signal input.
50	SLSS PAUSE	I	SLSS PAUSE signal input. H : OFF L : ON.
51	S-MUTE	O	Mute signal output. H : ON L : OFF.
52	NC	O	Not connected.
53	GND	-	Connected to ground.
54 ~ 55	NC	I	Not connected.
56	VDD	-	Power supply.
57	RESET	I	System reset signal input.
58	XOUT	-	Crystal oscillator connection terminal.
59	XIN		
60	VXT		
61	VLCD	-	Reference voltage for LCD drive.
62 ~ 63	C1 ~ C2	-	Voltage booster for LCD drive.
64	VEE	-	1.5V fixed power supply for LCD drive.

IC, LB1977M-TLM

Pin No.	Pin Name	I/O	Description
1	OSC	-	Oscillation terminal for activate.
2	COM	O	Comparator voltage for detection output waveform.
3	VS	I	Detect speed and voltage comparison for current feedback circuit. (Connected to motor com terminal)
4	GND	-	Connected to ground.
5	S/S	I	Start/Stop terminal.
6	VREF	-	Reference voltage (0.9V).
7	IN+	I	Non reverse for differential AMP.
8	VSP	O	Output for output waveform's wave height detection.
9	OUT	O	Differential AMP output.
10	RI	-	Current feedback resistor connection terminal.
11	FC	-	Frequency response adjustment terminal.
12	LB	-	Prevent motor locking when activating motor (connected to ground through a capacitor).
13	HS	-	Hi speed (1.5 times speed as normal). (connected to ground)
14	DR	I	Forward/reverse rotate direction.
15	BRAKE	I	Brake terminal. (Brake : MC OFF and U, V, W OUT ON)
16	VCC	-	Power supply.
17	MC	O	Drive terminal for external PNP transistor.
18	U OUT	O	Phase U output.
19	V OUT	O	Phase V output.
20	W OUT	O	Phase W output.
21	P-GND	-	Ground for output transistor and pre-driver.
22	WB	-	3 differential AMP phase W base terminal.
23	VB	-	3 differential AMP phase V base terminal.
24	UB	-	3 differential AMP phase U base terminal.

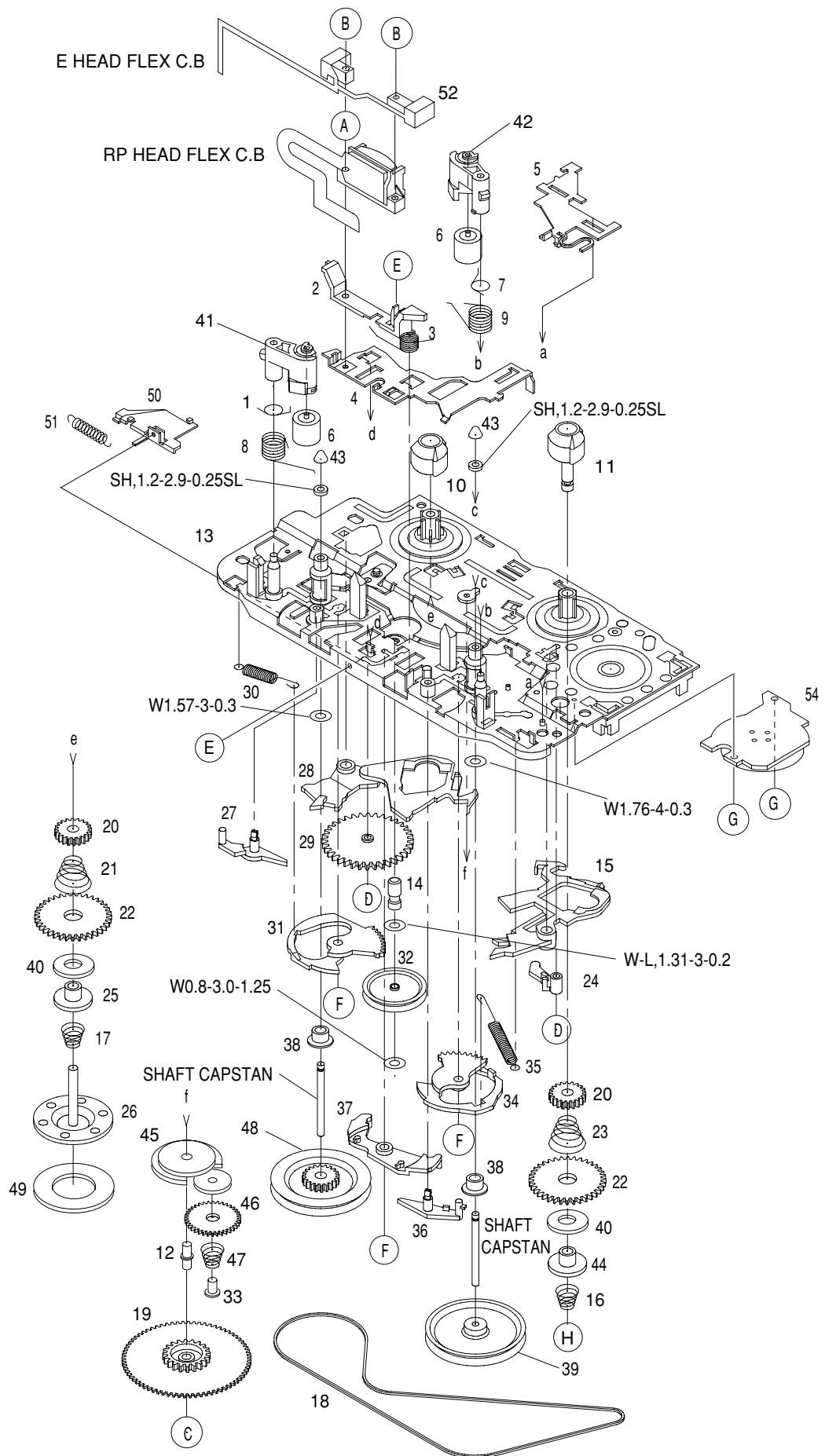
MECHANICAL EXPLODED VIEW 1 / 1



# MECHANICAL PARTS LIST 1 / 1

1	8A-HT2-019-010	PANEL,MIC	31	8A-HT2-202-010	PLATE,HINGE
2	8A-HT2-024-010	HLDL,MIC	32	8A-HT2-007-010	LID,BATT
3	8A-HT2-204-010	COVER, MIC	33	8A-HT2-208-010	BAT-CONTACT, (+) HINGE
4	87-A91-877-010	MIC,ECM 0B0-081N-0B	34	8A-HT2-213-010	SHAFT,BATT
5	8A-HT2-010-010	PANEL,FRONT Y	35	8A-HT2-207-010	BAT-CONTACT, (-) SPR
6	8A-HT2-008-010	WINDOW,CASS	36	8A-HT2-006-010	CABI,REAR Y
7	8A-HT2-013-010	KNOB,SL MODE/MIC	37	8A-HT2-012-010	KNOB,SL SLSS/VZRS
8	8A-HT2-002-010	LID,CASS Y	38	8A-HT2-014-010	KNOB,SL HOLD
9	8A-HT2-015-010	KNOB,SL REC	39	8A-HT2-214-010	FOOT,RUBBER
10	8A-HT2-018-010	BTN,REPEAT	40	8A-HT2-209-010	HLDL,DCJACK
11	8A-HT2-016-010	BTN,ST/PL/PA	A	87-264-505-310	SCREW,V+1.4-2.5
12	8A-HT2-025-010	BTN,RESET	B	87-264-503-310	SCREW V+1.4-2
13	8A-HT2-017-010	BTN,FF/REW	C	87-067-732-010	TAPPING SCREW, VT1.4-3
14	8A-HT2-020-010	LENS,LED	D	87-263-500-010	SCREW V+1.4-1.4
15	8A-HT2-021-010	BTN,REC	E	87-HK5-235-010	S-SCREW,1.4-0.6-2.5
16	8A-HT2-212-010	SPR,REC	F	87-067-768-010	VT2+1.7-7
17	87-A91-821-010	SPKR,36 8OHM 0.8W 36L8B8W	G	87-264-508-310	SCREW,V+1.4-3.5
18	8A-HT2-205-010	HLDL,LCD	H	87-067-535-010	S-SCREW,VT+1.4-3.5 WHT HL
19	8A-HT2-206-010	CONN,RUBBER LCD	I	88-HK5-228-010	S-SCREW,+1.4-2 CR
20	8A-HT2-201-010	HLDL,CASS	J	87-078-137-010	S-SCREW,+1.4-1 SWCH/CR NLOCK
21	88-HJ3-203-010	SPR-P,CLICK			
22	8A-HT2-004-010	FRAME,CENTER Y			
23	87-HR6-219-010	SPR-P,POP UP			
24	8A-HT2-203-010	HLDL,PWB			
25	88-HJ3-208-010	NUT, FRONT			
26	8A-HT2-011-010	KNOB,SL OPEN			
27	8A-HT2-210-010	PLATE,LOCK			
28	8A-HT2-211-010	SPR,EJECT			
29	88-HJ3-205-010	SPR-P,CASS			
30	87-HJ3-608-010	SW,LEAF REC ASSY			

# TAPE MECHANISM EXPLODED VIEW 1 / 1



# TAPE MECHANISM PARTS LIST 1 / 1

1	86-ZM2-255-010	0E	SPR-T, PIN BACK L	36	86-ZM2-222-410	0E	LEVER, PIN UP R
2	86-ZM2-286-410	0E	GUIDE, TAPE REC	37	86-ZM2-218-410	0E	LEVER, HEAD UP
3	86-ZM2-220-210	0E	SPR-T, HEAD	38	86-ZM2-221-010	0E	CLR, BRG N
4	86-ZM2-285-210	0E	LEVER, HEAD REC	39	86-ZM2-292-010	1A	FLY WHL, R ASSY
5	86-ZM2-347-010	0E	LEVER, MS EJECT	40	86-ZM2-239-010	0E	FELT,
6	86-ZM2-226-110	0E	ROLLER ASSY, PINCH	41	86-ZM2-225-310	0E	ARM, PINCH L
7	86-ZM2-254-010	0E	SPR-T, PIN BACK	42	86-ZM2-224-210	0E	ARM, PINCH R
8	86-ZM2-230-110	0E	SPR-T, PINCH L	43	86-ZM2-283-210	0E	CAP, SHAFT
9	86-ZM2-229-110	0E	SPR-T, PINCH R	44	86-ZM2-275-310	0E	CAP, SLIP R
10	86-ZM2-240-110	0E	CAP, REEL	45	86-ZM2-210-710	0E	LEVER, FR
11	86-ZM2-234-110	0E	SHAFT, REEL R	46	86-ZM2-211-210	0E	GEAR, FR
12	86-ZM2-251-310	0E	SHAFT, GEAR B	47	86-ZM2-213-210	0E	SPR-C, FR
13	86-ZM2-361-110	1C	CHAS ASSY, OUT-SERT P10	48	86-ZM2-291-010	1A	FLY WHL, L ASSY
14	86-ZM2-268-310	0E	SHAFT, PULLEY BELT 2	49	86-ZM2-282-010	0E	SH, AUTO 2
15	86-ZM2-232-310	0E	LEVER, REEL R	50	86-ZM2-342-110	1B	LEVER ASSY, EJECT
16	86-ZM2-306-010	0E	SPR-C, BT 2	51	86-ZM2-349-010	0E	SPR-E, EJECT
17	86-ZM2-243-310	0E	SPR-C, BT	52	8A-HT2-609-010	2A	HEAD, ASSY AHT-2
18	86-ZM2-329-210	0E	BELT, P5	53	86-ZM2-326-210	1C	HEAD ASSY, EH 6ZM-2 R2
19	86-ZM2-209-310	0E	GEAR, B	54	M8-6ZS-393-000	1H	ABL-63 D
20	86-ZM2-238-710	0E	GEAR, FF	A	86-ZM2-338-010	0E	W-L, 1.47-2.4-0.125 W/ADH
21	86-ZM2-245-510	0E	SPR-C, SLIP L	B	86-ZM2-296-110	0E	S-SCREW, +1.4-8.45
22	86-ZM2-237-010	0E	GEAR, PLAY	C	87-067-516-010	0E	PW, 3-1.58-0.25, SLIT
23	86-ZM2-241-410	0E	SPR-C, SLIP R	D	87-067-860-010	0E	PW, 3-0.95-0.4
24	86-ZM2-272-010	0E	LEVER, SW P 8.4	E	86-ZM2-364-010	0E	W-L, 1.47-2.4-0.188 W/ADH 0.05
25	86-ZM2-236-510	0E	CAP, SLIP	F	86-ZM2-319-010	0E	W-L, 0.95-3-0.35
26	86-ZM2-235-210	0E	SHAFT, REEL L	G	88-HK5-228-010	0E	S-SCREW, +1.4-2 CR
27	86-ZM2-223-310	0E	LEVER, PIN UP L	H	86-ZM2-278-010	0E	W-P, 1.36-4-0.2 SLT
28	86-ZM2-233-310	0E	LEVER, REEL L	I	87-261-500-310	0E	SCREW V+1.4-1.4 (BK)
29	86-ZM2-208-310	0E	GEAR, A				
30	86-ZM2-217-210	0E	SPR-E, CAM L				
31	86-ZM2-216-510	0E	LEVER, CAM L				
32	86-ZM2-276-010	0E	PULLEY, COUPLER				
33	86-ZM2-212-310	0E	SHAFT, FR				
34	86-ZM2-214-510	0E	LEVER, CAM R				
35	86-ZM2-215-210	0E	SPR-E, CAM R				

**アイワ株式会社** 〒110-8710 東京都台東区池之端1-2-11 ☎03(3827)3111 (代表)  
**AIWA CO.,LTD.** 2-11, IKENOHATA 1-CHOME, TAITO-KU, TOKYO 110, JAPAN TEL:03 (3827) 3111