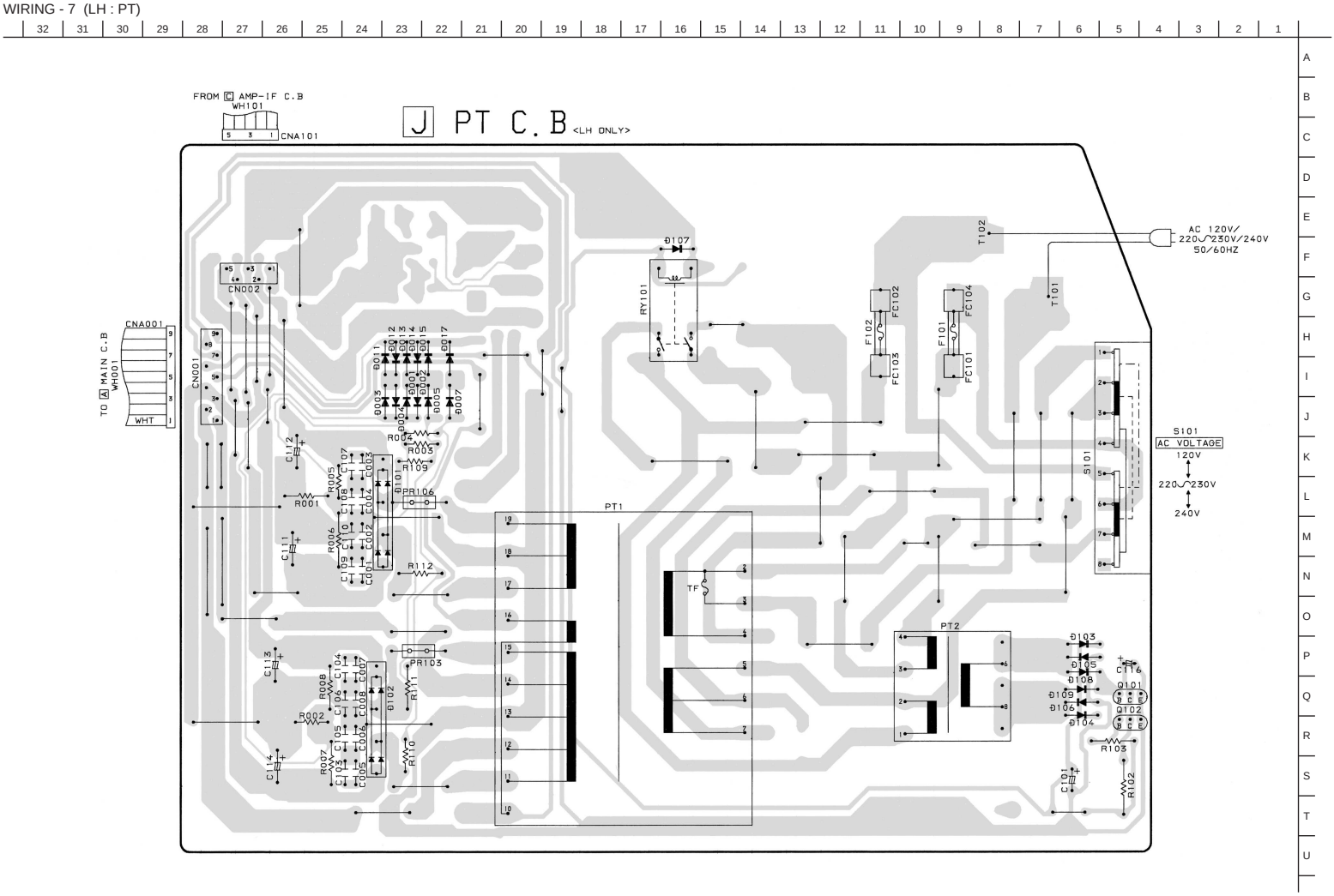
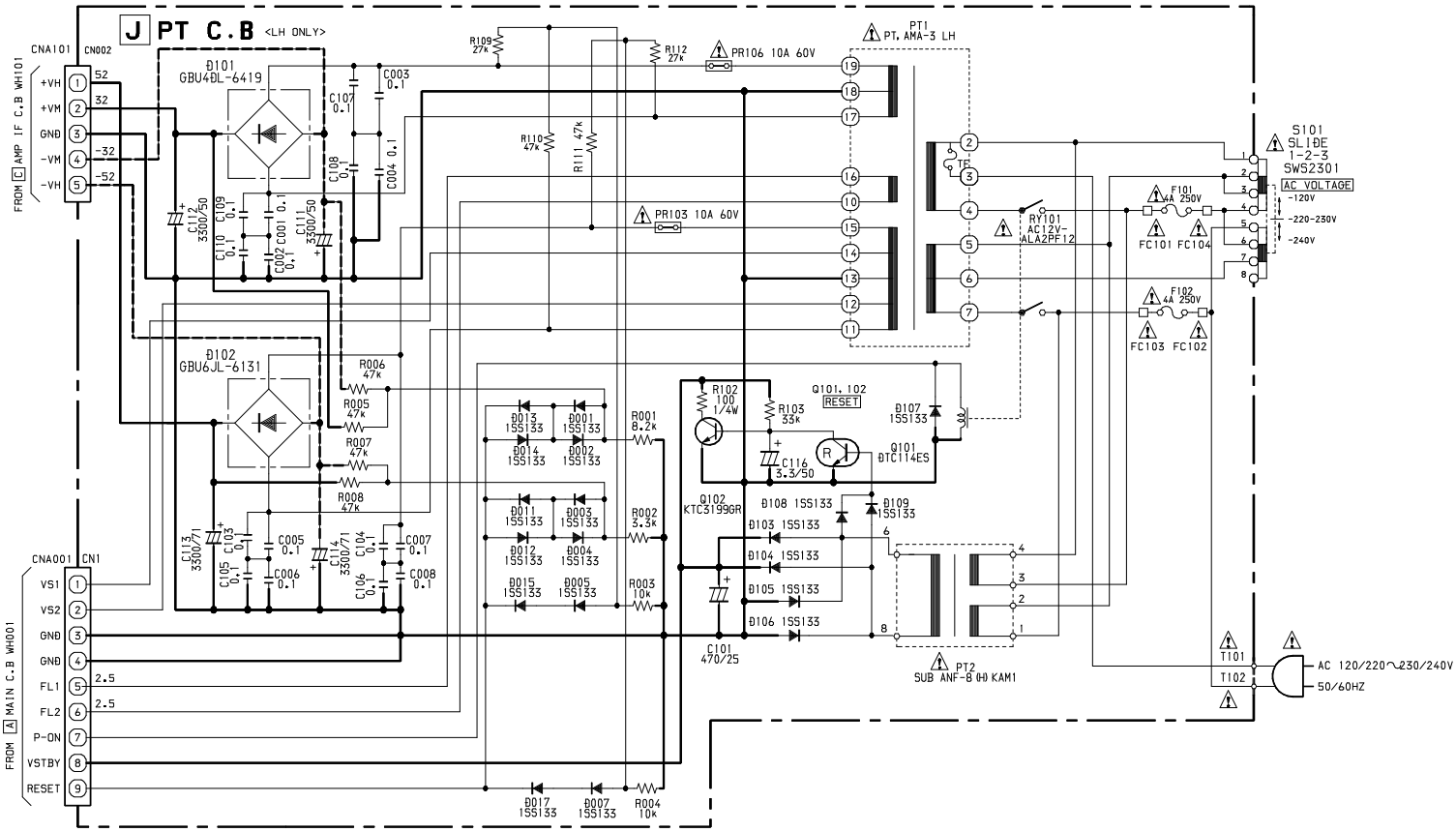
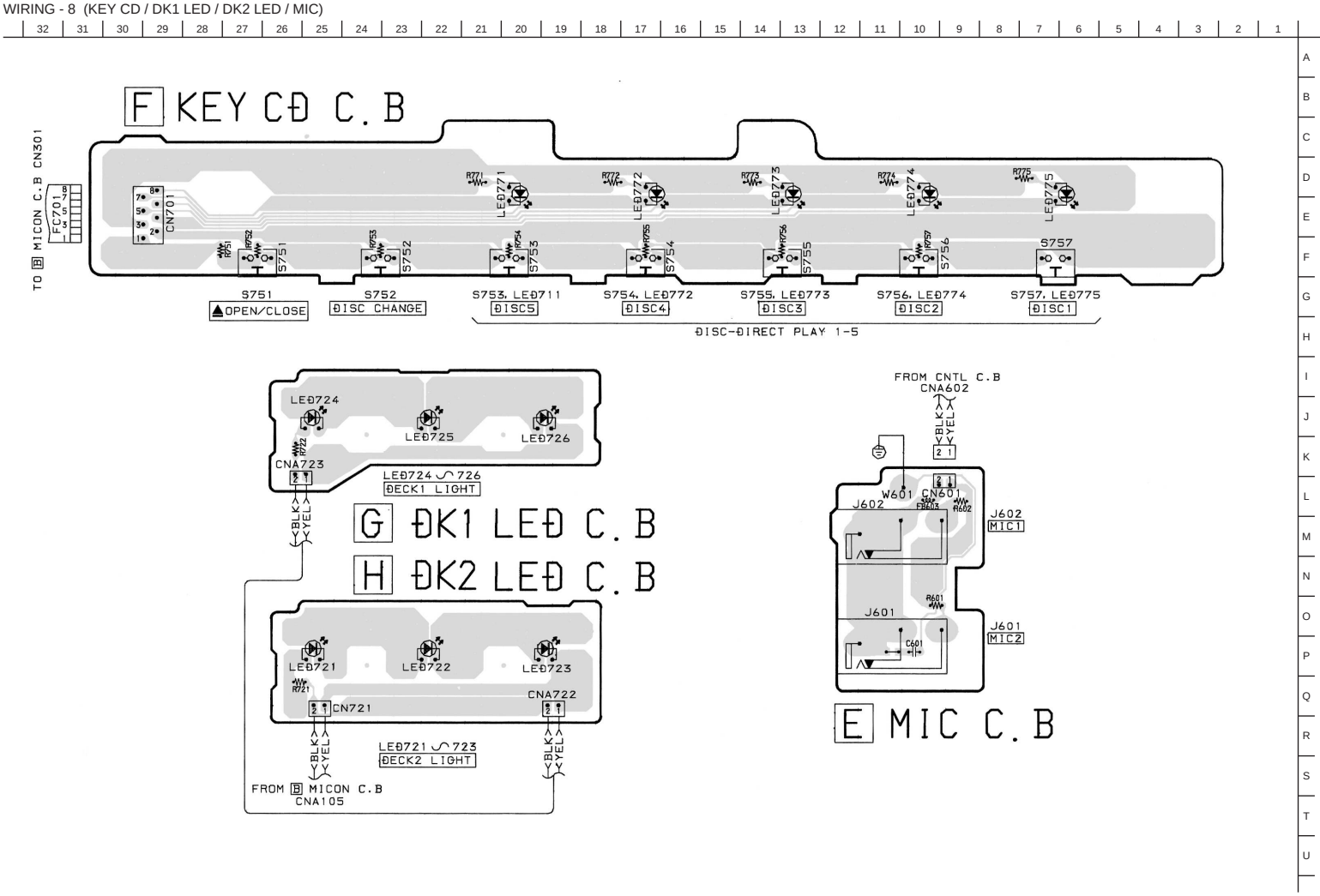
WIRING - 7 (LH : PT)



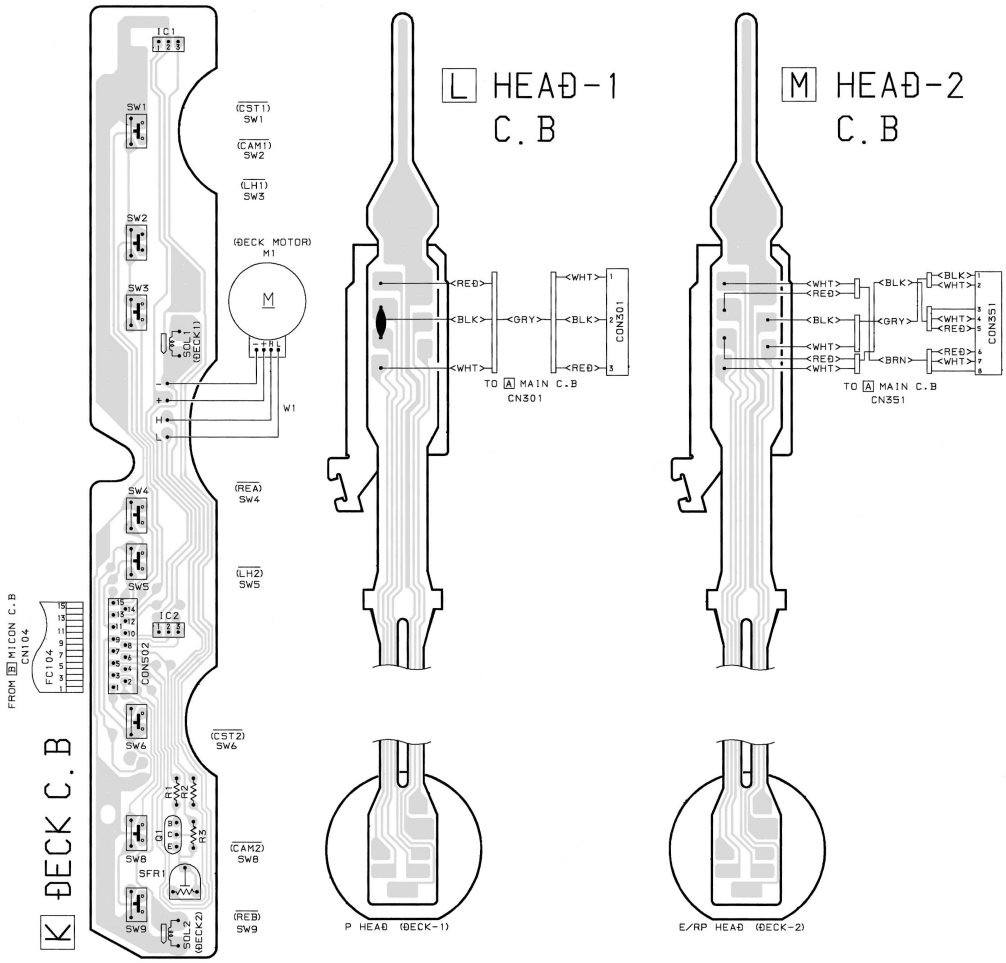
SCHEMATIC DIAGRAM - 9 (LH : PT)



WIRING - 8 (KEY CD / DK1 LED / DK2 LED / MIC)

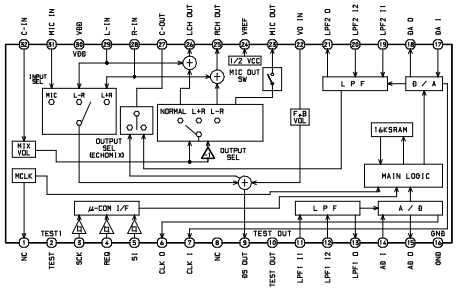


WIRING - 9 (DECK / HEAD-1 / HEAD-2)

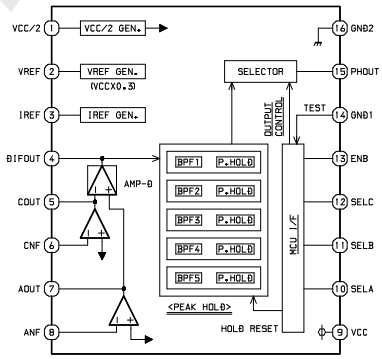


IC BLOCK DIAGRAM

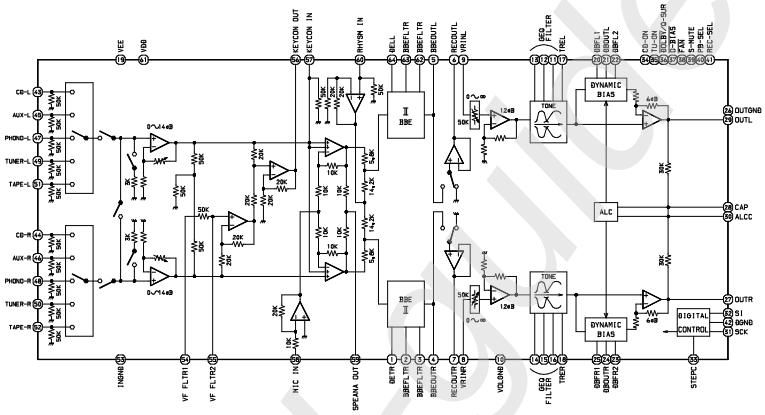
IC, M65849BFP631D



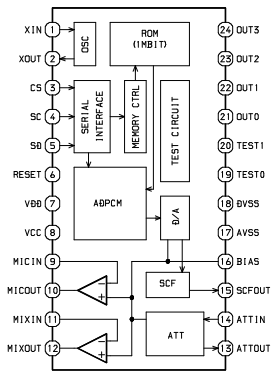
IC, M61506FP



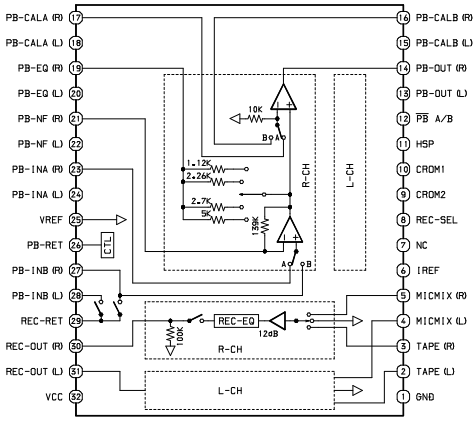
IC, BD3876KS2



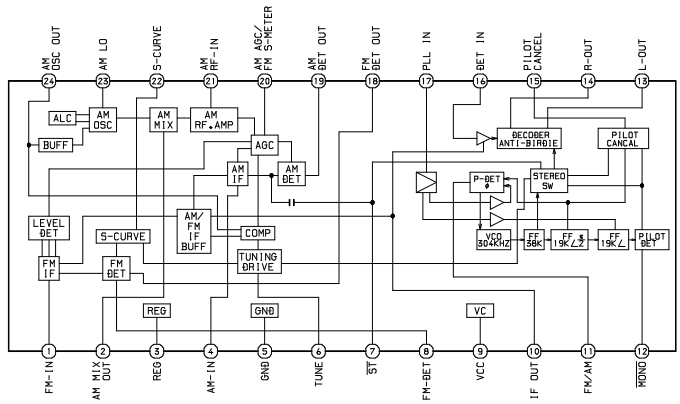
IC, BU9990-03FS



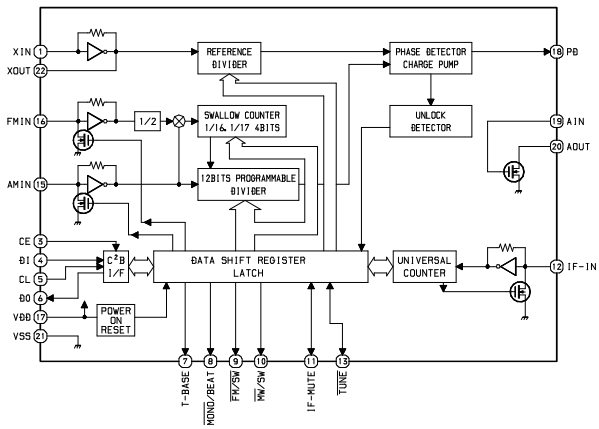
IC, BA7762AFS



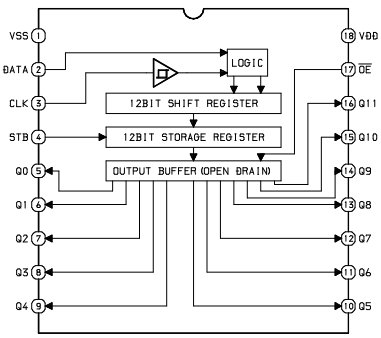
IC, LA1843



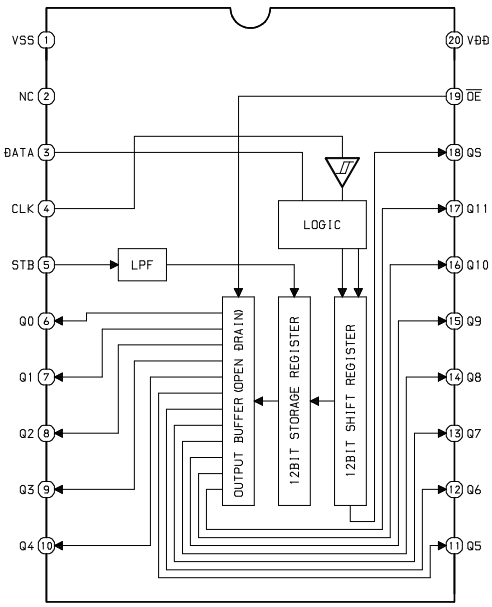
IC, LC72131D



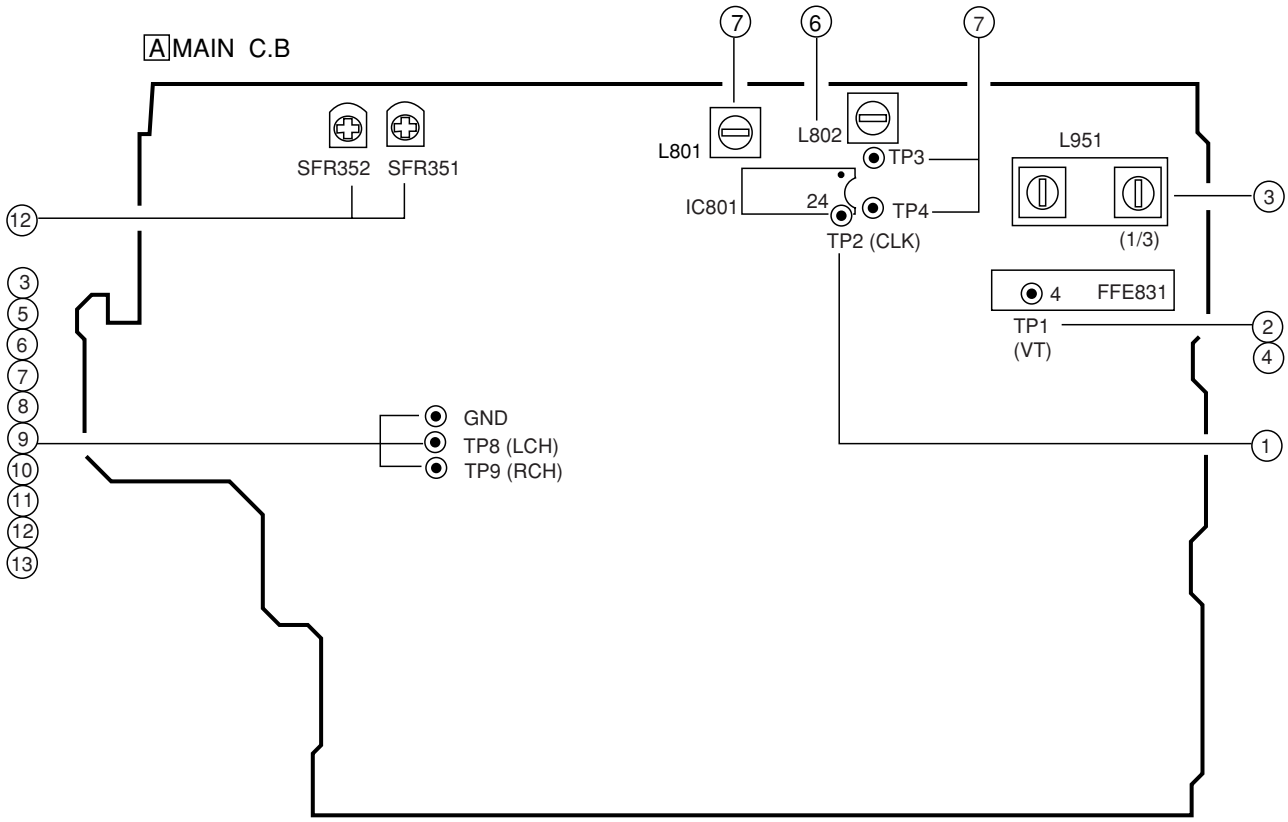
IC, BU2092F



IC, BU2099FV



ADJUSTMENT <TUNER / DECK / FRONT>



< TUNER SECTION >

1. Clock Frequency Check
   Settings : • Test point : TP2 (CLK)
   Method : Set to AM 1710kHz and check that the test point is 2160kHz ± 45Hz.

2. AM VT Check
   Settings : • Test point : TP1 (VT)
   Method : Set to AM 1710kHz, AM 530kHz and check that the test point is less than 8.5V (1710kHz) and more than 0.6V (530kHz).

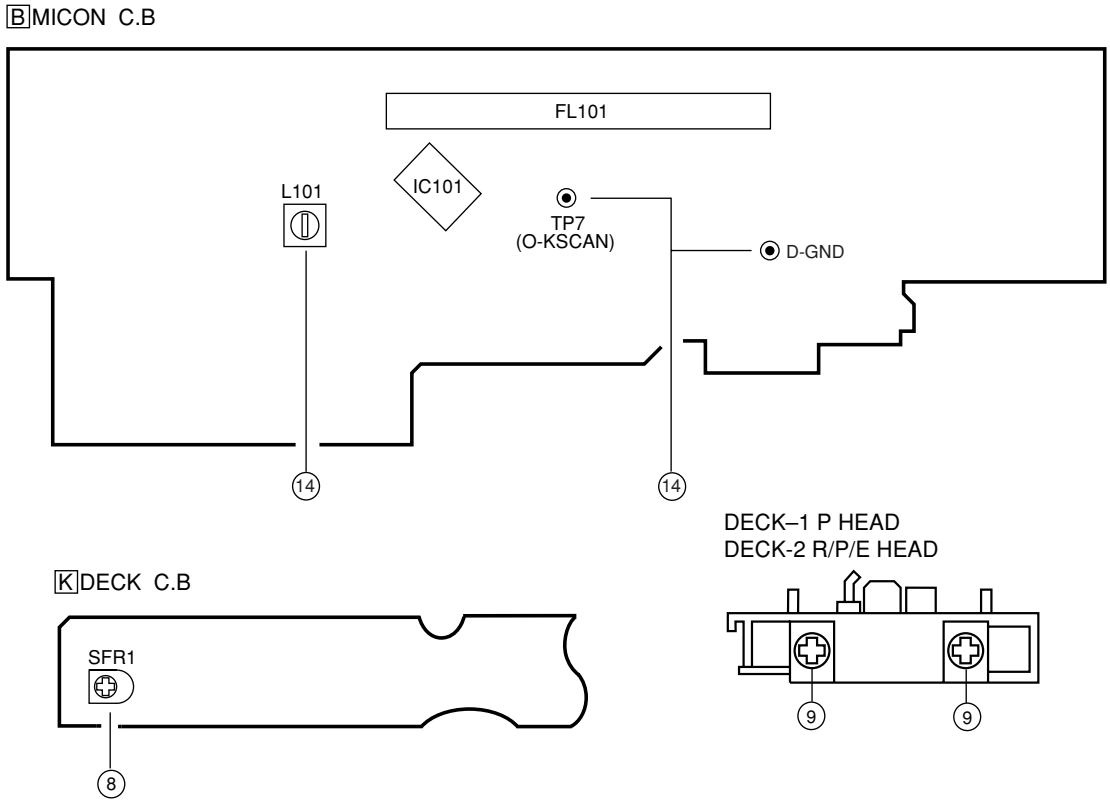
3. AM Tracking Adjustment
   Settings : • Test point : TP8 (Lch), TP9 (Rch)
   • Adjustment location :
   L951 (1/3) 1000kHz
   Method : Set to AM 1000kHz and adjust L951 (1/3) so that the test point is maximum.

4. FM VT Check
   Settings : • Test point : TP1 (VT)
   Method : Set to FM 108.0MHz and check that the test point is less than 8.0V.
   Set to FM 87.5MHz and check that the test point is more than 0.5V.

5. FM Tracking Check
   Settings : • Test point : TP8 (Lch), TP9 (Rch)
   Method : Set to FM 98.0MHz and check that the test point is less than 9.0dBµV.

6. AM IF Adjustment
   Settings : • Test point : TP8 (Lch), TP9 (Rch)
   • Adjustment location :
   L802 ..... 450kHz

7. DC Balance / Mono Distortion Adjustment
   Settings : • Test point : TP3, TP4 (DC Balance)
   TP8 (Lch), TP9 (Rch) (Distortion)
   • Adjustment location : L801
   • Input level : 60dBµV
   Method : Set to FM 98.0MHz and adjust L801 so that the voltage between TP3 and TP4 becomes 0V ± 0.03V. Next, check that the distortion is minimum



< DECK SECTION >

8. Tape Speed Adjustment (DECK 2)
   Settings : • Test tape : TTA–100
   • Test point : TP8 (Lch), TP9 (Rch)
   • Adjustment location : SFR1
   Method : Play back (FWD) the test tape and adjust SFR1 so that the frequency counter reads 3000Hz ± 5Hz and ± 45Hz (REV) with respect to forward speed.

9. Head Azimuth Adjustment (DECK 1, DECK 2)
   Settings : • Test tape : TTA–330
   • Test point : TP8 (Lch), TP9 (Rch)
   • Adjustment location : Head azimuth adjustment screw
   Method : Play back (FWD) the 8kHz signal of the test tape and adjust screw so that the output becomes maximum.

10. PB Frequency Response Check (DECK 1, DECK 2)
    Settings : • Test tape : TTA–330
    • Test point :TP8 (Lch), TP9 (Rch)
    Method : Play back the 315Hz and 8kHz signals of the test tape and check that the output ratio of the 8kHz signal with respect to that of the 315Hz signal is within 5dB.

11. PB Sensitivity Check (DECK 1, DECK 2)
    Settings : • Test tape : TTA–200
    • Test point : TP8 (Lch), TP9 (Rch)
    Method : Play back the test tape and check that the output level of the test point is 230mV ± 3dB.

12. REC/PB Frequency Response Adjustment (DECK 2)
    Settings : • Test tape : TTA–602
    • Test point : TP8 (Lch), TP9 (Rch)
    • Input signal : 1kHz / 10kHz (LINE IN)
    • Adjustment location : SFR351 (Lch)
    SFR352 (Rch)
    Method : Apply a 1kHz signal and REC mode. Then adjust OSC attenuator so that the output level at the TP8, TP9 becomes 0dB (16mV). Record and play back the 1kHz and 10kHz signals and adjust SFRs so that the output of the 10kHz signals becomes 0dB ± 0.5dB with respect to that of the 1kHz signal.

13. REC/PB Sensitivity Check (DECK 2)
    Settings : • Test tape : TTA–602
    • Test point : TP8 (Lch), TP9 (Rch)
    • Input signal : 1kHz (LINE IN)
    Method : Apply a 1kHz signal and REC mode. Then adjust OSC attenuator so that the output level at TP8, TP9 becomes 0dB (160mV). Record and play back the 1kHz signals and check that the output is 0dB ± 3.5dB.

< FRONT SECTION >

14. MICON OSC Adjustment
    Settings : • Test point : TP7 (O-KSCAN) and D-GND
    • Adjustment location : L101
    Method : Pull out AC plug, then insert AC plug again with pressing of TUNER / BAND function key and POWER key. Adjust L101 so that the frequency across the test point is 208.80Hz ± 0.21Hz or 4.78ms ~ 4.79ms.

IC DESCRIPTION

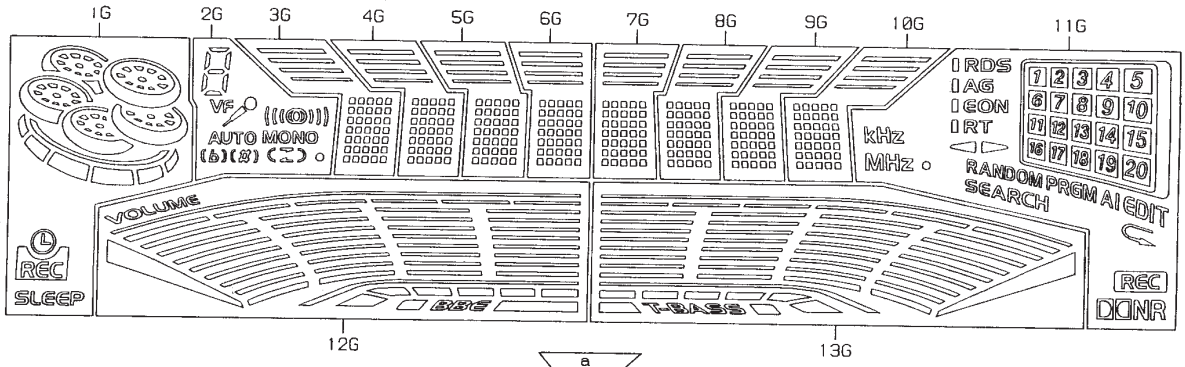
IC, LC876580W-5P55

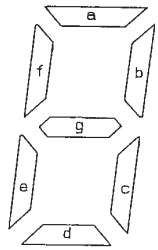
Pin No.	Pin Name	I/O	Description
1	M-CLK	O	Common serial clock.
2	M-DATA	O	Common serial data.
3	M-STB	O	Common serial strobe.
4	PLL-CE	O	Tuner PLL IC chip enable.
5	SR-LCK	O	Shift register IC LATCH clock.
6	RYM-CS	O	RHYTHM IC chip select.
7	POWER	O	Audio power ON/OFF.
8	MUTE	O	System MUTE ON/OFF.
9	$\overline{\text{C-SHIFT}}$	O	CLOCK SHIFT output. "L" : SHIFT
10	$\overline{\text{HP-MUTE}}$	I	Head phone jack detection. "L" : MUTE
11	RESET	I	System RESET input.
12	RTVR	I	Volume rotary encoder.
13	JOG	I	Dial JOG rotary encoder.
14	GND	–	Connected to GND.
15	CF1	I	Oscillator circuit input.
16	CF2	O	Oscillator circuit output.
17	VDD	–	Power supply.
18	HOLD	I	System HOLD input.
19	KEY1	I	Tact key matrix 1 input.
20	KEY2	I	Tact key matrix 2 input.
21	KEY3	I	Tact key matrix 3 input.
22	CD-SW	I	CD MECHA SW matrix input.
23	DISH	I	CD turntable photo sensor.
24	SPEANA	I	Spectrum analyser level detection.
25	MIC	I	MIC input level detection.
26	RDS-SG	I	RDS Signal level input. (Not used)
27	TM-BASE	I	Time base clock input.
28	CD-WRQ/ RDS-CLK	I	CD Read Write Request / Tuner RDS clock input (Not used).
29	REM	I	Remote control signal input.
30 ~ 42	G13 ~ G1	O	FL grid G13 ~ G1 output.
43 ~ 45	P38 ~ P36	O	FL segment P38 ~ P36 output.
46	VDD	–	Power supply.
47	P35/SPEANA–A	O	FL segment P35 output / Spectrum analyser BPF switching control A output.
48	P34/SPEANA–B	O	FL segment P34 output / Spectrum analyser BPF switching control B output.
49	P33/SPEANA–C	O	FL segment P33 output / Spectrum analyser BPF switching control C output.
50	P32/CSNDEMO	O/I	FL segment P32 output / Initial DEMO MODE detect. "H" : CASINO DEMO.
51	–VP	–	Power supply for FL.
52	P31/TU3	O/I	FL segment P31 output / TUNER series, TU3 select.
53	P30/TU2	O/I	FL segment P30 output / TUNER series, TU2 select.
54	P29/TU1	O/I	FL segment P29 output / TUNER series, TU1 select.
55	P28/$\overline{\text{DSP}}$	O/I	FL segment P28 output / DSP function detection. "L" : ON

Pin No.	Pin Name	I/O	Description
56	P27/RHYTHM	O/I	FL segment P27 output / RHYTHM function detection. "H" : ON
57	P26/KEYCON	O/I	FL segment P26 output / KEYCON function detection. "H" : ON
58	P25/5MODE	O/I	FL segment P25 output / GEQ 5MODE select. "H" : 5 MODE (Not used)
59	P24/$\overline{\text{ECO}}$	O/I	FL segment P24 output / ECO mode detection. "H" : ECO OFF
60	P23	O/I	FL segment P23 output.
61	P22	O/I	FL segment P22 output.
62	P21/5.1+DLPRO	O/I	FL segment P21 output / 5.1CH+PROLOGIC detection. "H" : ON
63	P20/DLPRO	O/I	FL segment P20 output / DOLBY PROLOGIC detection. "H" : ON (Not used)
64	P19/$\overline{\text{CST2}}$	O/I	FL segment P19 output / Deck 2 cassette detection. "L" : ON
65	P18/$\overline{\text{REB}}$	O/I	FL segment P18 output / Deck 2 side B recordable SW. "L" : REC
66	P17/$\overline{\text{CAM2}}$	O/I	FL segment P17 output / Deck 2 CAM SW input. "L" : ON
67	P16/AUTO1	O/I	FL segment P16 output / Deck 1 auto stop input.
68	P15/AUTO2	O/I	FL segment P15 output / Deck 2 auto stop input.
69	P14/$\overline{\text{CAM1}}$	O/I	FL segment P14 output / Deck 1 CAM SW input. "L" : ON
70	P13/$\overline{\text{CST1}}$	O/I	FL segment P13 output / Deck 1 cassette detection SW. "L" : ON
71	P12/$\overline{\text{REA}}$	O/I	FL segment P12 output / Deck 2 side-A recordable SW. "L" : REC
72	VDD	–	Power supply.
73 ~ 83	P11 ~ P1	O	FL segment P11 ~ P1 output.
84	P39	O	FL segment P39 output.
85	$\overline{\text{KEYSCAN}}$	O	KEYSCAN output. "L" : ON
86	$\overline{\text{MOTOR}}$	O	DECK motor ON/OFF control. "L" : ON
87	$\overline{\text{SOL1}}$	O	DECK 1 solenoid control. "L" : ON
88	$\overline{\text{SOL2}}$	O	DECK 2 solenoid control. "L" : ON
89	GND	–	Connected to GND.
90	VDD	–	Power supply.
91	DISH-RVS	O	CD dish reverse output. "H" : REV
92	DISH-FWD	O	CD dish forward output. "H" : FWD
93	$\overline{\text{OPEN}}$	O	CD tray OPEN output. "L" : OPEN
94	$\overline{\text{CLOSE}}$	O	CD tray CLOSE output. "L" : CLOSE
95	CD-DATA/ RDS DATA	O/I	Serial data output to CD. RDS serial data input (Not used).
96	CD-XLT	O	CD DSP serial LATCH output. (Chip enable)
97	CD-CLK	O	CD DSP serial CLOCK output.
98	CD-LED	O	CD flash window LED control.
99	CD-SUBQ/IFC	I	CD SUBQ (Sub code) serial data input / TUNER IF COUNT data input.
100	DRF/STEREO	I	RF (radio frequency) detect / TUNER STEREO signal input.

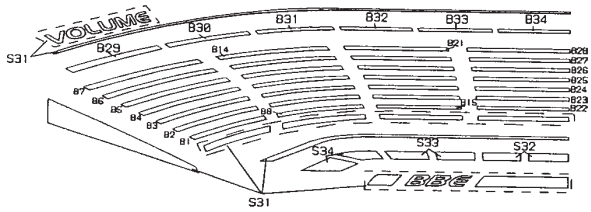
FL (BJ751GNK) GRID ASSIGNMENT AND ANODE CONNECTION

GRID ASSIGNMENT

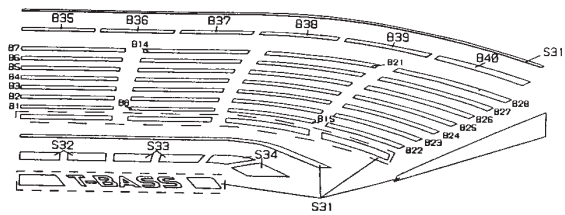




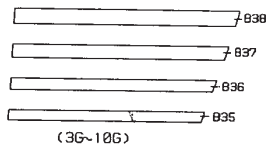
(2G)



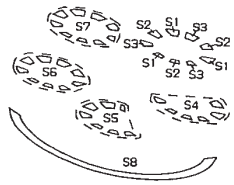
(12G)

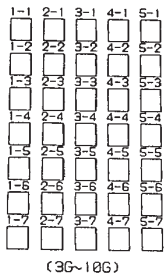


(13G)

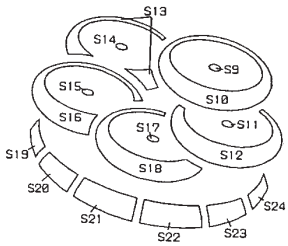


(3G~10G)



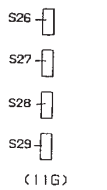


(3G~10G)

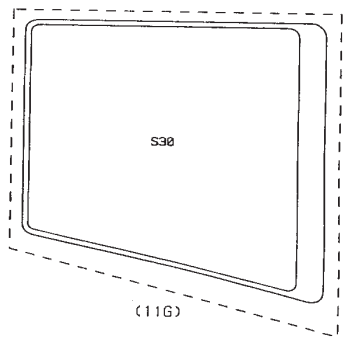


(1G)

(11G)



(11G)

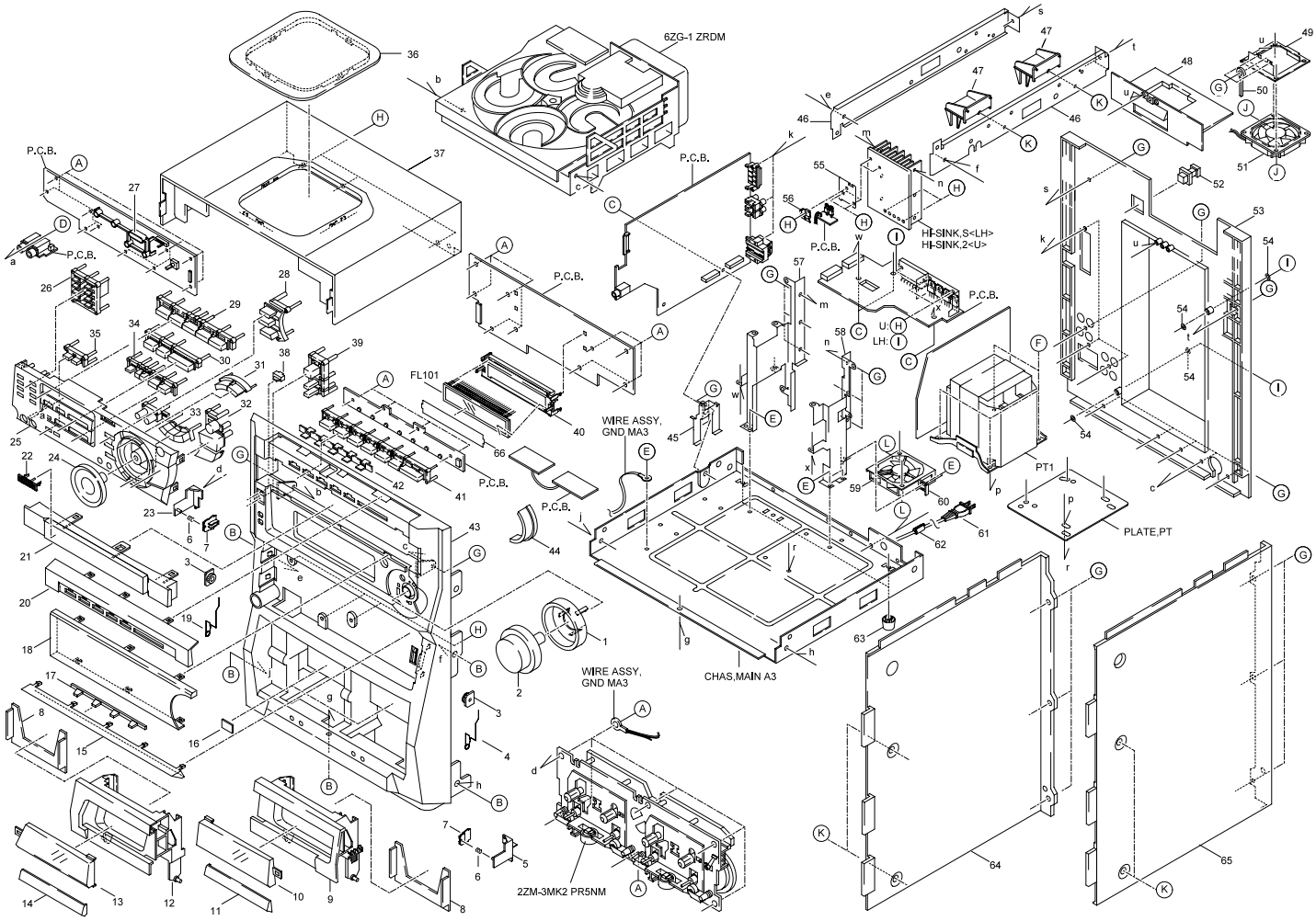


(11G)

ANODE CONNECTION

	1G	2G	3G	4G	5G	6G	7G	8G	9G	10G	11G	12G	13G
P1	SLEEP	–	1-1	1-1	1-1	1-1	1-1	1-1	1-1	1-1	S30	S31	S31
P2	REC	–	2-1	2-1	2-1	2-1	2-1	2-1	2-1	2-1	1	S32	S32
P3	◷	–	3-1	3-1	3-1	3-1	3-1	3-1	3-1	3-1	2	S33	S33
P4	S1	–	4-1	4-1	4-1	4-1	4-1	4-1	4-1	4-1	3	S34	S34
P5	S2	–	5-1	5-1	5-1	5-1	5-1	5-1	5-1	5-1	4	B1	B1
P6	S3	–	1-2	1-2	1-2	1-2	1-2	1-2	1-2	1-2	5	B8	B8
P7	S9	–	2-2	2-2	2-2	2-2	2-2	2-2	2-2	2-2	6	B15	B15
P8	S10	–	3-2	3-2	3-2	3-2	3-2	3-2	3-2	3-2	7	B22	B22
P9	S7	–	4-2	4-2	4-2	4-2	4-2	4-2	4-2	4-2	8	B2	B2
P10	S14	–	5-2	5-2	5-2	5-2	5-2	5-2	5-2	5-2	9	B9	B9
P11	S13	a	1-3	1-3	1-3	1-3	1-3	1-3	1-3	1-3	10	B16	B16
P12	S11	b	2-3	2-3	2-3	2-3	2-3	2-3	2-3	2-3	11	B23	B23
P13	S4	f	3-3	3-3	3-3	3-3	3-3	3-3	3-3	3-3	12	B3	B3
P14	S12	g	4-3	4-3	4-3	4-3	4-3	4-3	4-3	4-3	13	B10	B10
P15	S6	c	5-3	5-3	5-3	5-3	5-3	5-3	5-3	5-3	14	B17	B17
P16	S15	e	1-4	1-4	1-4	1-4	1-4	1-4	1-4	1-4	15	B24	B24
P17	S16	d	2-4	2-4	2-4	2-4	2-4	2-4	2-4	2-4	16	B4	B4
P18	S5	VF	3-4	3-4	3-4	3-4	3-4	3-4	3-4	3-4	17	B11	B11
P19	S17	🎤	4-4	4-4	4-4	4-4	4-4	4-4	4-4	4-4	18	B18	B18
P20	S18	((◉))	5-4	5-4	5-4	5-4	5-4	5-4	5-4	5-4	19	B25	B25
P21	S8	AUTO	1-5	1-5	1-5	1-5	1-5	1-5	1-5	1-5	20	B5	B5
P22	S19	MONO	2-5	2-5	2-5	2-5	2-5	2-5	2-5	2-5	S25	B12	B12
P23	S20	(♭)	3-5	3-5	3-5	3-5	3-5	3-5	3-5	3-5	S26	B19	B19
P24	S21	(♯)	4-5	4-5	4-5	4-5	4-5	4-5	4-5	4-5	S27	B26	B26
P25	S22	⊂	5-5	5-5	5-5	5-5	5-5	5-5	5-5	5-5	S28	B6	B6
P26	S23	⇄	1-6	1-6	1-6	1-6	1-6	1-6	1-6	1-6	S29	B13	B13
P27	S24	)	2-6	2-6	2-6	2-6	2-6	2-6	2-6	2-6	◁	B20	B20
P28	–	○	3-6	3-6	3-6	3-6	3-6	3-6	3-6	3-6	▷	B27	B27
P29	–	–	4-6	4-6	4-6	4-6	4-6	4-6	4-6	4-6	DNR	B7	B7
P30	–	–	5-6	5-6	5-6	5-6	5-6	5-6	5-6	5-6	REC	B14	B14
P31	–	–	1-7	1-7	1-7	1-7	1-7	1-7	1-7	1-7	⊂	B21	B21
P32	–	–	2-7	2-7	2-7	2-7	2-7	2-7	2-7	2-7	EDIT	B28	B28
P33	–	–	3-7	3-7	3-7	3-7	3-7	3-7	3-7	3-7	AI	B29	B35
P34	–	–	4-7	4-7	4-7	4-7	4-7	4-7	4-7	4-7	PRGM	B30	B36
P35	–	–	5-7	5-7	5-7	5-7	5-7	5-7	5-7	5-7	RANDOM	B31	B37
P36	–	–	B38	B38	B38	B38	B38	B38	B38	B38	SEARCH	B32	B38
P37	–	–	B37	B37	B37	B37	B37	B37	B37	B37	○	B33	B39
P38	–	–	B36	B36	B36	B36	B36	B36	B36	B36	MHz	B34	B40
P39	–	–	B35	B35	B35	B35	B35	B35	B35	B35	kHz	–	–

MECHANICAL EXPLODED VIEW 1 / 1



MECHANICAL PARTS LIST 1 / 1

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	8A-MA3-094-010		RING,MAIN<LH>
1	8A-MA3-095-010		RING,VOL<U>
2	8A-MA3-090-010		KNOB,RTRY MAIN
3	87-NF8-220-010		DMPR,150
4	82-NF5-219-010		SPR-T,EJECT 2 (SIN)
5	87-NF4-217-110		HLDR,LOCK 2
6	86-NF9-224-010		SPR-C,LOCK
7	82-NF5-229-010		PLATE,LOCK
8	86-NF6-061-010		REFLECTOR,CASS
9	8A-MA3-026-010		BOX,CASS R
10	8A-MA3-056-010		WINDOW,CASS R
11	8A-MA3-036-010		PANEL,CASS R 3
12	8A-MA3-025-010		BOX,CASS L
13	8A-MA3-055-010		WINDOW,CASS L
14	8A-MA3-035-010		PANEL,CASS L 3
15	8A-MA3-041-010		PANEL,FUN 5F<LH>
15	8A-MA3-042-010		PANEL,FUN 5F U<U>
16	81-532-080-010		LABEL, CASS. COMPT
17	8A-MA3-102-010		REFLECTOR,FUN 5F<LH>
17	8A-MA3-103-010		REFLECTOR,FUN 5F U<U>
18	8A-MA3-050-010		WINDOW,DISP<LH>
18	8A-MA3-052-010		WINDOW,DISP U<U>
19	82-NF5-218-010		SPR-T,EJECT 1 (SIN)
20	8A-MA3-034-010		PANEL,CD LED
21	8A-MA3-037-010		PANEL ASSY,TRAY 3
22	87-B00-002-010		BADGE AIWA 30 ABS S1
23	87-NF4-216-010		HLDR,LOCK 1
24	8A-MA3-093-010		KNOB ASSY,RTRY JOG
25	8A-MA3-030-010		PANEL,FR H 3<LH>
25	8A-MA3-031-010		PANEL,FR U 3<U>
26	8A-MA3-081-010		KEY ASSY,GEQ 4M<U>
26	8A-MA3-080-010		KEY ASSY,GEQ 4M PM<LH>
27	8A-MA3-210-010		GUIDE,LED OPE
28	8A-MA3-071-010		KEY,TIMER
29	8A-MA3-066-010		KEY,FUN 5F
30	8A-MA3-083-010		KEY ASSY,DIR
31	8A-MA3-072-010		KEY,FREQ
32	8A-MA3-073-010		KEY,ENTER
33	8A-MA3-074-010		KEY,RHYTHM<LH>
34	8A-MA3-084-010		KEY ASSY,FF
35	8A-MA3-069-010		KEY,KARAOKE
36	8A-MA3-057-010		WINDOW,TOP<LH>
36	8A-MA3-058-010		WINDOW,TOP U<U>
37	8A-MA3-020-110		CABI,TOP<LH>
37	8A-MA3-021-110		CABI,TOP U<U>
38	8A-MA3-101-010		REFLECTOR,POWER
39	8A-MA3-075-010		KEY,POWER
40	88-MA1-205-010		GUIDE,FL
41	8A-MA3-061-010		KEY,CD
42	8A-MA3-100-010		REFLECTOR,CD
43	8A-MA3-001-010		CABI,FR U 3
44	8A-MA3-062-010		KEY,MIC<LH>
45	8A-MA3-207-010		HLDR,PWB MAIN H
46	88-MA1-208-210		JOINT,CABI
47	8A-MA3-212-010		HLDR,PWB PT
48	8A-MA3-211-010		COVER,FAN
49	8A-NF3-223-010		HLDR,FAN
50	87-064-185-010		HLDR,WIRE
51	87-A91-711-010		FAN,3110GL-B 4W-B34-H
52	84-ZG1-245-210		CAP,OPTICAL
53	8A-MA3-012-010		CABI,REAR LHSTNM<LH>
53	8A-MA3-010-010		CABI,REAR USTNM<U>
54	8A-MA3-214-010		W,3.5-6.5-1 W/ADH
55	8A-MA3-213-010		PLATE,TR
56	86-NF6-211-010		HLDR,IC T1.6
57	8A-MA3-205-010		HLDR,HT-SINK L
58	8A-MA3-206-010		HLDR,HT-SINK R
59	87-A91-423-010		FAN,AD0612DS-D70GL
60	8A-MA2-202-010		HLDR,FAN
⚠ 61	87-A80-148-010		AC CORD ASSY,E BLK<LH>
⚠ 61	87-A80-149-010		AC CORD ASSY,U BLK<U>
62	87-085-185-010		BUSHING, AC CORD (E)<LH>
62	87-085-189-010		BUSHING, CORD (U)<U>
63	87-MA3-062-010		FOOT, H17
64	8A-MA3-045-010		PANEL,SIDE L 3<LH>
64	8A-MA3-047-010		PANEL,SIDE L 3 (U)<U>
65	8A-MA3-046-010		PANEL,SIDE R 3<LH>
65	8A-MA3-048-010		PANEL,SIDE R 3 (U)<U>
66	8A-MA3-110-010		PLATE,FL 3
A	87-078-060-010		BVIT3PB+3-10
B	87-591-095-410		TAPPING SCREW, QIT+3-8 (GLD)
C	87-NF4-224-010		S-SCREW,IT3B+3-8 CU
D	81-MK1-210-010		S-SCREW,VFT2+3-16
E	87-067-688-010		BVTT+3-6
F	87-067-975-010		S-SCREW,1T+4-8
G	87-067-703-010		TAPPING SCREW, BVT2+3-10
H	87-067-758-010		BVT2+3-12 W/O SLOT
I	87-067-581-010		S-SCREW,BVT2+3-15 W/O
J	87-067-579-010		TAPPING SCREW, BVT2+3-8
K	87-067-641-010		UTT2+3-8(W/O SLOT)BL
L	87-067-689-010		S-SCREW,BVT2+3-18

COLOR NAME TABLE

Basic color symbol	Color	Basic color symbol	Color	Basic color symbol	Color
B	Black	C	Cream	D	Orange
G	Green	H	Gray	L	Blue
LT	Transparent Blue	N	Gold	P	Pink
R	Red	S	Silver	ST	Titan Silver
T	Brown	V	Violet	W	White
WT	Transparent White	Y	Yellow	YT	Transparent Yellow
LM	Metallic Blue	LL	Light Blue	GT	Transparent Green
LD	Dark Blue	DT	Transparent Orange	GM	Metallic Green
YM	Metallic Yellow	DM	Metallic Orange		