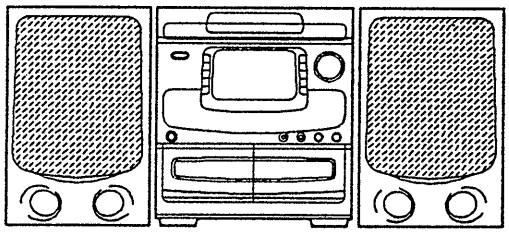
aiwa

aiwa SERVICE

CX-N999MK2
SX-N999MK2

SERVICE MANUAL



COMPACT DISC STEREO
CASSETTE RECEIVER

- BASIC TAPE MECHANISM: 2ZM-3PR1N
- BASIC CD MECHANISM: 4ZG-1SDFR
- TYPE. V

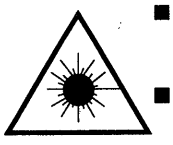
● If requiring information about the CD mechanism, see Service Manual of 4ZG-1S. (S/M Code No. 09-95C-124-90T).

S/M Code No. 09-969-164-70T

PROTECTION OF EYES FROM LASER BEAM DURING SERVICING

This set employs laser. Therefore, be sure to follow carefully the instructions below when servicing.

WARNING!
WHEN SERVICING, DO NOT APPROACH THE LASER EXIT WITH THE EYE TOO CLOSELY. IN CASE IT IS NECESSARY TO CONFIRM LASER BEAM EMISSION. BE SURE TO OBSERVE FROM A DISTANCE OF MORE THAN 30cm FROM THE SURFACE OF THE OBJECTIVE LENS ON THE OPTICAL PICK-UP BLOCK.



- Caution: Invisible laser radiation when open and interlocks defeated avoid expo-sure to beam.
- Advarsel: Usynlig laserståling ved åbning, når sikkerhedsafbrydere er ude af funktion. Undgå udsættelse for stråling.

VAROITUS!
Laiteen Käyttäminen muulla kuin tässä käyttöohjeessa mainit-ulla tavalla saattaa altistaa käyt-täjän turvallisuusluokan 1 ylit-tävälle näkymättömälle lasersäteilylle.

VARNING!
Om apparaten används på annat sätt än vad som specificeras i denna bruksanvising, kan användaren utsättas för osynling laserstrålning, som överskrider gränsen för laserklass 1.

CAUTION
Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radi-ation exposure.

ATTENTION
L'utilisation de commandes, réglages ou procédures autres que ceux spécifiés peut entraîner une dangereuse exposition aux radiations.

ADVARSEL!
Usynlig laserståling ved åbning, når sikkerhedsafbrydereer ude af funktion. Undgå udsættelse for stråling.

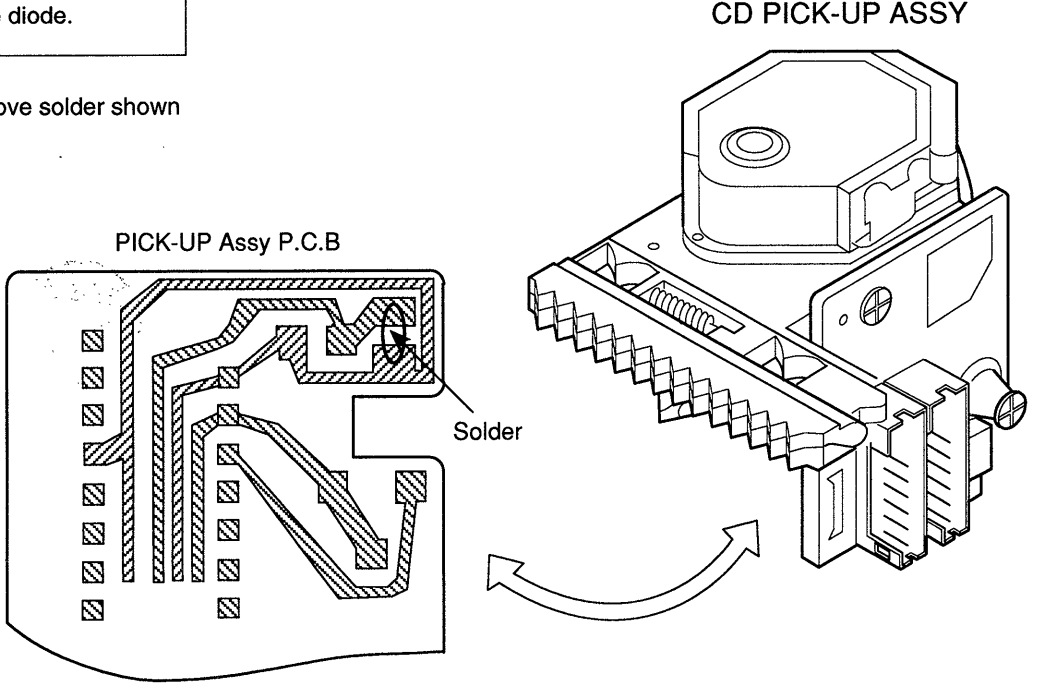
This Compact Disc player is classified as a CLASS 1 LASER product.
The CLASS 1 LASER PRODUCT label is located on the rear exterior.

CLASS 1	LASER PRODUCT
KLASSE 1	LASER PRODUKT
LUOKAN 1	LASER LAITE
KLASS 1	LASER APPARAT

Precaution to replace Optical block (KSS-210A)

Body or clothes electrostatic potential could ruin laser diode in the optical block. Be sure ground body and workbench, and use care the clothes do not touch the diode.

1) After the connection, remove solder shown in the right figure.



SPECIFICATIONS

<FM tuner section>

Tuning range	FM1 (OIRT) 65 MHz to 74 MHz (10 kHz step) FM2 (CCIR) 87.5 MHz to 108 MHz (50 kHz step)
Usable sensitivity(IHF)	14.2 dBf
Antenna terminals	75 ohms (unbalanced)

<MW tuner section>

Tuning range	531 kHz to 1602 kHz (9 kHz step) 530 kHz to 1710 kHz (10 kHz step)
Usable sensitivity	350 µV/m
Antenna	Loop antenna

<LW tuner section>

Tuning range	144 kHz to 290 kHz
Usable sensitivity	1400 µV/m
Antenna	Loop antenna

<Amplifier section>

Power output (without surround speakers)	Rated 150 W + 150 W (1 kHz, 6 ohms, T.H.D. 1%/DIN 45500) Reference 180 W + 180 W (1 kHz, 6 ohms, T.H.D. 10%/DIN 45324) 200 W + 200 W (DIN MUSIC POWER)
Harmonic distortion	0.1 % (100 W, 1 kHz, 6 ohms, DIN-AUDIO)
Input terminal	VIDEO/AUX: 150 mV (adjustable) MIC: 1.0 mV/10 kΩ
Output terminal	SUPER WOOFER : 3.0 V

<Cassette deck section>

Track format	4 tracks, 2 channels
Frequency response	CrO_2 tape: 50 – 16000 Hz Normal tape: 50 – 15000 Hz
Signal-to-noise ratio	60 dB (DOLBY NR ON, CrO_2 tape peak level)
Recording system	AC bias
Heads	Playback head × 1 (deck 1) Recording/playback/erasure head × 1 (deck 2)

<CD player section>

Laser	Semiconductor laser (λ = 780 nm)
D-A converter	1 bit dual
Wow/flutter	Unmeasurable
Signal-to-noise ratio	85 dB (1 kHz, 0 dB)
Harmonic distortion	0.03 % (1 kHz, 0 dB)

SPEAKER SYSTEM

(These values are for one speaker.)

Cabinet type	3 way, bass reflex (magnetism sealed type)
Speaker	160 mm (6 3/8 in.) cone type woofer 80 mm (3 1/4 in.) cone type tweeter 20 mm (13/16 in.) ceramic type super tweeter
Impedance	6 ohms
Output sound pressure level	87 dB/W/m
Dimensions (W × H × D)	250 × 320 × 330 mm (9 7/8 × 12 5/8 × 13 in.)
Weight	6.0 kg (13 lbs. 4 oz)

COMMON SECTION

Power requirement	AC 230 V, 50 Hz
Power consumption	185 W
Dimensions of the main unit (W × H × D)	290 × 323 × 340 mm (11 1/2 × 12 3/4 × 13 1/2 in.)
Weight of the main unit	9.7 kg (21 lbs. 6 oz)

- Design and specifications are subject to change without notice.

■ ACCESSORIES / PACKAGE LIST

DESCRIPTIONで判断できない物は "REFERENCE NAME LIST" を参照してください。
If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

REF. NO	PART NO.	カンリ NO.	DESCRIPTION
1	84-NF6-906-010		IB,V-M
2	83-NF6-625-010		RC,RC-TN999
3	87-006-268-010		ANT,LOOP AM
4	87-043-115-010		FEEDER-ANT,FM

IC DESCRIPTION

IC, LC866432V-5819

<table>
<tr><th>Pin No.</th><th>Pin Name</th><th>I/O</th><th>Description</th></tr>
<tr><td>1</td><td>O-PLLCE</td><td>O</td><td>PLL IC, chip enable output.</td></tr>
<tr><td>2</td><td>O-OPEN (CD)</td><td>O</td><td>3-CD mechanism (4ZG-1), output to open tray.</td></tr>
<tr><td>3</td><td>O-CLOSE (CD)</td><td>O</td><td>3-CD mechanism (4ZG-1), output to close tray.</td></tr>
<tr><td>4</td><td>O-DISH-REV</td><td>O</td><td>3-CD mechanism (4ZG-1), output to rotate tray in reverse direction.</td></tr>
<tr><td>5</td><td>O-$\overline{\text{MUTE}}$</td><td>O</td><td>System mute $\overline{\text{ON}}$/OFF output.</td></tr>
<tr><td>6</td><td>O-$\overline{\text{DISH-FOR}}$</td><td>O</td><td>3-CD mechanism (4ZG-1), output to rotate tray in forward direction.</td></tr>
<tr><td>7</td><td>I-$\overline{\text{RESET}}$</td><td>I</td><td>RESET input terminal.</td></tr>
<tr><td>8</td><td>I-$\overline{\text{HOLD}}$</td><td>I</td><td>Input when power failure is detected. (“L” level during power failure) “L” = 1</td></tr>
<tr><td>9</td><td>I-SUBQ</td><td>I</td><td>CD SUB-Q data input.</td></tr>
<tr><td>10</td><td>VSS1</td><td>—</td><td>GND terminal.</td></tr>
<tr><td>11</td><td>I-CF1</td><td>I</td><td>CF1 input terminal.</td></tr>
<tr><td>12</td><td>O-CF2</td><td>O</td><td>CF2 output terminal.</td></tr>
<tr><td>13</td><td>VDD1</td><td>—</td><td>Power supply terminal.</td></tr>
<tr><td>14</td><td>I-SW (CD)</td><td>I</td><td>3-CD mechanism (4ZG-1), input from switches to A/D.</td></tr>
<tr><td>15</td><td>I-DISH (CD)</td><td>I</td><td>3-CD mechanism (4ZG-1), input from turntable sensor to A/D.</td></tr>
<tr><td>16～18</td><td>I-KEY1～3</td><td>I</td><td>Key 1～3 input to A/D.</td></tr>
<tr><td>19</td><td>I-MS</td><td>I</td><td>Deck MS detected input to A/D.</td></tr>
<tr><td>20</td><td>I-SPEANA</td><td>I</td><td>Spectrum analyzer level data input to A/D.</td></tr>
<tr><td>21</td><td>I-MIC</td><td>I</td><td>Mic level input to A/D for auto vocal fader.</td></tr>
<tr><td>22</td><td>I-$\overline{\text{TUNE}}$/IFC</td><td>I</td><td>Tuner SD detected input/IF count serial data input.</td></tr>
<tr><td>23</td><td>I-SEN (CD)/I-$\overline{\text{ST}}$ (TU)</td><td>I</td><td>CD IC control sense input/tuner stereo detected input.</td></tr>
<tr><td>24</td><td>I-$\overline{\text{RMC}}$</td><td>I</td><td>System remote control input (Active low).</td></tr>
<tr><td>25</td><td>O-Ga</td><td>O</td><td>FL grid output (G1 to G7).
<table>
<tr><th>Gc</th><th>Gb</th><th>Ga</th><th></th><th></th><th>Gc</th><th>Gb</th><th>Ga</th><th></th></tr>
<tr><td>0</td><td>0</td><td>0</td><td>OFF</td><td></td><td>1</td><td>0</td><td>0</td><td>G4</td></tr>
<tr><td>0</td><td>0</td><td>1</td><td>G1</td><td></td><td>1</td><td>0</td><td>1</td><td>G5</td></tr>
<tr><td>0</td><td>1</td><td>0</td><td>G2</td><td></td><td>1</td><td>1</td><td>0</td><td>G6</td></tr>
<tr><td>0</td><td>1</td><td>1</td><td>G3</td><td></td><td>1</td><td>1</td><td>1</td><td>G7</td></tr>
</table></td></tr>
<tr><td>26</td><td>O-Gb</td><td>O</td><td></td></tr>
<tr><td>27</td><td>O-Gc</td><td>O</td><td></td></tr>
<tr><td>28～32</td><td>O-G8～12</td><td>O</td><td>FL grid output (G8～12).</td></tr>
<tr><td>33</td><td>O-P30</td><td>O</td><td>FL segment output (P30).</td></tr>
<tr><td>34</td><td>O-P29</td><td>O</td><td>FL segment output (P29).</td></tr>
<tr><td>35</td><td>O-P28</td><td>O</td><td>FL segment output (P28).</td></tr>
<tr><td>36</td><td>O-P27</td><td>O</td><td>FL segment output (P27).</td></tr>
<tr><td>37</td><td>O-P26</td><td>O</td><td>FL segment output (P26).</td></tr>
<tr><td>38</td><td>O-P25</td><td>O</td><td>FL segment output (P25).</td></tr>
<tr><td>39</td><td>O-P24</td><td>O</td><td>FL segment output (P24).</td></tr>
<tr><td>40</td><td>O-P23</td><td>O</td><td>FL segment output (P23).</td></tr>
<tr><td>41</td><td>VDD2</td><td>—</td><td>Power supply terminal.</td></tr>
<tr><td>42</td><td>VP</td><td>—</td><td>VP terminal.</td></tr>
<tr><td>43</td><td>O-P22/$\overline{\text{CST1}}$</td><td>I/O</td><td>FL segment output (P22)/Input from switch detecting cassette in DECK 1.</td></tr>
<tr><td>44</td><td>O-P21/$\overline{\text{AUTO1}}$</td><td>I/O</td><td>FL segment output (P21)/Input from DECK1 auto stop.</td></tr>
</table>

Pin No.	Pin Name	I/O	Description
45	O-P20/CAM1	I/O	FL segment output (P20)/Input from DECK1 cam switch.
46	O-P19/$\overline{\text{CAM2}}$	I/O	FL segment output (P19)/Input from DECK 2 cam switch.
47	O-P18/$\overline{\text{AUTO2}}$	I/O	FL segment output (P18)/Input from DECK 2 auto stop.
48	O-P17/$\overline{\text{CST2}}$	I/O	FL segment output (P17)/Input from switch detecting cassette in DECK 2.
49	O-P16/$\overline{\text{REA2}}$	I/O	FL segment output (P16)/Input from switch detecting that side-A of DECK 2 is recordable.
50	O-P15/$\overline{\text{REB2}}$	I/O	FL segment output (P15)/Input from switch detecting that side-B of DECK 2 is recordable.
51	O-P14/TMBASE	I/O	FL segment output (P14)/Reference clock signal input to internal timer clock (8 Hz only).
52	O-P13/SPEANA (C)	O	FL segment output (P13)/Output to select frequency of spectrum analyzer (C).
53	O-P12/SPEANA (B)	O	FL segment output (P12)/Output to select frequency of spectrum analyzer (B).
54	O-P11/SPEANA (A)	O	FL segment output (P11)/Output to select frequency of spectrum analyzer (A).
55	O-P10/OIRT	I/O	FL segment output (P10)/Input to diode to enable OIRT reception.
56	O-P9/FM-WIDE	I/O	FL segment output (P9)/Input to diode to enable FM wide reception.
57	O-P8/AM-ST	I/O	FL segment output (P8)/Input to diode to enable AM stereo reception.
58	O-P7/AM-10K	I/O	FL segment output (P7)/Input to diode for initial AM 10 kHz step.
59	O-P6/SW	I/O	FL segment output (P6)/Input to diode to enable SW reception.
60	O-P5/LW	I/O	FL segment output (P5)/Input to diode to enable LW reception.
61	O-P4/BBE	I/O	FL segment output (P4)/Input to diode to enable BBE.
62	O-P3/DSP	I/O	FL segment output (P3)/Input to diode to enable DSP.
63	O-P2/K-CON	I/O	FL segment output (P2)/Input to diode to enable key control.
64	O-P1/CD AUTO ADJ	I/O	FL segment output (P1)/Input to diode to enable CD automatic adjustment.
65	O-$\overline{\text{MOT}}$	O	$\overline{\text{ON}}$/OFF output to DECK mechanism motor.
66, 67	O-$\overline{\text{SOL1, 2}}$	O	$\overline{\text{ON}}$/OFF output to DECK 1, 2 mechanism plunger solenoid.
68	O-$\overline{\text{POWER}}$	O	$\overline{\text{ON}}$/OFF output to system power supply.
69	O-MA-STB	O	Strobe output to latch data of the main shift register.
70	O-FR-STB	O	Strobe output to latch data of the front shift register.
71	O-SER-CLK	O	Clock output to transfer serial data.
72	O-SER-DAT	O	Serial data output.
73	VSS2	—	GND terminal.
74	O-$\overline{\text{SW-SCAN}}$	O	Output signal to enable segment input, $\overline{\text{ENABLE}}$/INHIBIT.
75	O-DAT (GEQ)	O	Data output to control electronic graphic equalizer IC.
76	O-CLK (CD)	O	Clock output to transfer the control data of CD IC.
77	O-XLT (CD)	O	Strobe output to latch the control data of CD IC.
78	O-DAT (CD)	O	Control data output from CD IC.
79	O-SQCK (CD)	O	Clock output to enable data input of CD SUB-Q.
80	O-DSP STB	O	Strobe output to latch control data of DSP ICs.

ELECTRICAL MAIN PARTS LIST

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If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

REF. NO	PART NO.	カンリ NO.	DESCRIPTION
IC			
	83-NF6-615-210		IC,LC866432V-5819
	87-001-222-089		IC,NJU4051BM
	87-070-083-019		IC,GP1U281X
	87-001-395-019		IC,STK4231-MK2
	87-017-738-019		IC,NJM2068LD
	87-017-915-089		IC,BU4094BCF
	87-002-727-019		IC,NJM4558L
	87-017-887-010		IC,XR1090ACP
	87-001-874-019		IC,HA12134A
	87-070-277-019		IC,BA3839
	87-017-022-089		IC,NJM2068M-D(T1)
	87-017-449-010		IC,XR-1071CP
	87-017-914-019		IC,BU4094BC
	87-017-804-019		IC,BU4052BC
	87-070-183-040		IC,M65846FP-800D
	87-001-528-019		IC,LC7522
	87-070-065-019		IC,BU2622S
	87-001-530-019		IC,LA3607
	87-017-714-119		IC,LA1836L
	87-017-726-089		IC,BU4052BCF
TRANSISTOR			
	89-213-702-019		TR,2SB1370E
	89-109-352-089		TR,2SA935 Q
	87-026-610-089		TR,KTC3198GR
	89-327-125-089		C-TR,2SC2712GR
	89-332-665-089		TR,2SC3266GR
	89-337-221-389		C-TR,2SC3722K(R/S/E)
	89-111-625-089		C-TR,2SA1162GR
	87-026-235-089		C-TR,DTC114EK
	89-112-965-089		TR,2SA1296GR
	89-109-521-089		TR,2SA952K
	87-026-226-089		C-TR,DTA143EK
	87-026-210-089		C-TR,DTC144EK T147
	89-333-266-089		C-TR,2SC3326B
	87-026-232-089		C-TR,DTA144WK
	87-026-211-089		C-TR,DTA144EK T147
	87-026-658-010		FET,2SJ176
	89-510-940-010		FET,2SK1094
	89-322-405-089		TR,2SC2240GR
	87-026-238-089		C-TR,DTC144WK
	89-503-655-689		FET,2SK365 GR,BL
	89-113-187-889		TR,2SA1318TU
	89-406-555-089		TR,2SD655E
	89-333-317-089		TR,2SC3331T
	89-327-126-089		C-TR,2SC2712BL
	89-502-464-089		FET,2SK246Y
	89-318-154-089		TR,2SC1815Y
	87-026-214-089		TR,DTA114YS
	89-327-143-089		C-TR,2SC2714(O)
	89-333-266-088		C-TR,2SC3326B
	89-505-434-549		C-FET,2SK543(4/5)
DIODE			
	87-020-465-089		DIODE,1SS133
	87-002-597-069		DIODE,DBF,60C-K13
	87-017-978-089		DIODE,1N4003
	87-020-027-089		C-DIODE,1SS184
	87-020-125-089		C-DIODE,1SS181
	87-017-174-089		ZENER,HZS11A3L
	87-027-451-089		ZENER,HZ27-2L
	87-020-330-089		C-DIODE,DAP202K
	87-020-331-089		C-DIODE,DAN202K
	87-001-731-089		ZENER,HZS6C2L
	87-001-290-089		ZENER,HZS6B1L
	87-017-091-089		ZENER,HZS5C1
	87-001-559-089		DIODE,1SS131(T-72)
	87-070-178-099		DIODE,1N5402-BD54
	87-A40-134-080		DIODE,G2B
	87-017-148-089		ZENER,HZS6A1L
	87-020-465-088		DIODE,1SS133
	87-017-152-089		ZENER,HZS6B3L
	87-017-083-089		ZENER,HZS 4C2
	87-020-027-088		C-DIODE,1SS184
MAIN C.B			
BC101	87-026-584-010		PROTECTOR,R3U3 T100A
C101	87-A10-056-090		CAP,E 4700-35 M
C102	87-A10-056-090		CAP,E 4700-35 M
C104	87-010-235-089		CAP,E 470-16 SME
C105	87-010-381-089		CAP,E 330-16 SME
C106	87-016-285-089		CAP,E 47-100 SME
C107	87-010-405-089		CAP,E 10-50 SME
C108	87-010-405-089		CAP,E 10-50 SME
C109	87-010-263-089		CAP,E 100-10
C112	87-010-382-089		CAP,E 22-25 SME
C113	87-010-403-089		CAP,E 3.3-50 SME
C115	87-010-196-089		C-CAP,S 0.1-25 F
C116	87-012-140-089		C-CAP,S 470P-50 CH
C118	87-010-196-089		C-CAP,S 0.1-25 F
C126	87-A10-059-099		CAP,E 3300-75 SME
C127	87-A10-059-099		CAP,E 3300-75 SME
C145	87-018-134-088		CAP,TC-U 0.01-16 Y
C146	87-010-196-088		C-CAP,S 0.1-25 F
C152	87-010-260-089		CAP,E 47-25 SME
C201	87-018-211-088		CAP,TC-U 0.01-50
C202	87-018-211-088		CAP,TC-U 0.01-50
C203	87-010-197-088		C-CAP,S 0.01-25 B
C204	87-010-197-088		C-CAP,S 0.01-25 B
C213	87-010-404-089		CAP,E 4.7-50 SME
C214	87-010-404-089		CAP,E 4.7-50 SME
C215	87-010-178-089		C-CAP,S 1000P-50 B
C216	87-010-178-089		C-CAP,S 1000P-50 B
C217	87-010-404-089		CAP,E 4.7-50 SME
C218	87-010-404-089		CAP,E 4.7-50 SME
C219	87-010-220-089		C-CAP,S 0.018-25 B
C220	87-010-220-089		C-CAP,S 0.018-25 B
C221	87-010-545-089		CAP,E 0.22-50 SME
C222	87-010-545-089		CAP,E 0.22-50 SME
C223	87-010-260-089		CAP,E 47-25 SME
C224	87-010-260-089		CAP,E 47-25 SME
C225	87-010-260-089		CAP,E 47-25 SME
C226	87-010-260-089		CAP,E 47-25 SME
C227	87-018-209-089		CAP,TC-U 0.1-50 F
C228	87-018-209-089		CAP,TC-U 0.1-50 F
C231	87-010-196-089		C-CAP,S 0.1-25 F
C243	87-010-154-089		C-CAP,S 10P-50 CH
C244	87-015-879-089		C-CAP,10P-50 CH
C245	87-018-208-089		CAP,TC-U 0.047-50 F
C250	87-010-196-089		C-CAP,S 0.1-25 F
C251	87-010-410-089		CAP,E 330-50 SME
C303	87-012-155-089		C-CAP,S 180P-50 CH
C304	87-012-155-089		C-CAP,S 180P-50 CH
C305	87-010-189-089		C-CAP,S 8200P-50 B
C306	87-010-189-089		C-CAP,S 8200P-50 B
C309	87-010-197-089		C-CAP,S 0.01-25 B
C310	87-010-197-089		C-CAP,S 0.01-25 B
C311	87-010-213-089		C-CAP,S 0.015-50 B
C312	87-010-213-089		C-CAP,S 0.015-50 B
C314	87-018-209-089		CAP,TC-U 0.1-50 F
C351	87-012-154-089		C-CAP,S 150P-50 CH
C352	87-012-154-089		C-CAP,S 150P-50 CH
C353	87-012-145-089		C-CAP,S 270P-50CH
C354	87-012-145-089		C-CAP,S 270P-50CH
C355	87-012-154-089		C-CAP,S 150P-50 CH
C356	87-012-154-089		C-CAP,S 150P-50 CH

REF. NO	PART NO.	カンリ NO.	DESCRIPTION
C357	87-010-189-089		C-CAP,S 8200P-50 B
C358	87-010-189-089		C-CAP,S 8200P-50 B
C359	87-010-196-089		C-CAP,S 0.1-25 F
C361	87-010-197-089		C-CAP,S 0.01-25 B
C362	87-010-197-089		C-CAP,S 0.01-25 B
C363	87-010-197-089		C-CAP,S 0.01-25 B
C364	87-010-197-089		C-CAP,S 0.01-25 B
C401	87-010-402-089		CAP,E 2.2-50 SME
C402	87-010-402-089		CAP,E 2.2-50 SME
C405	87-010-197-089		C-CAP,S 0.01-25 B
C406	87-015-819-089		C-CAP,0.01
C409	87-010-181-089		C-CAP,S 1800P-50 B
C410	87-010-181-089		C-CAP,S 1800P-50 B
C411	87-010-188-089		C-CAP,S 6800P-50 B
C412	87-010-188-089		C-CAP,S 6800P-50 B
C415	87-012-154-089		C-CAP,S 150P-50 CH
C416	87-012-154-089		C-CAP,S 150P-50 CH
C451	87-012-156-089		C-CAP,S 220P-50 CH
C452	87-012-156-089		C-CAP,S 220P-50 CH
C453	87-010-178-089		C-CAP,S 1000P-50 B
C454	87-010-178-088		C-CAP,S 1000P-50 B
C455	87-010-178-088		C-CAP,S 1000P-50 B
C456	87-010-260-089		CAP,E 47-25 SME
C457	87-010-197-089		C-CAP,S 0.01-25 B
C458	87-010-183-089		C-CAP,S 2700P-50 B
C459	87-010-183-089		C-CAP,S 2700P-50 B
C460	87-010-183-089		C-CAP,S 2700P-50 B
C470	87-010-196-089		C-CAP,S 0.1-25 F
C503	87-012-145-089		C-CAP,S 270P-50CH
C504	87-010-302-089		C-CAP,270P-50 CH
C507	87-010-178-089		C-CAP,S 1000P-50 B
C508	87-010-178-089		C-CAP,S 1000P-50 B
C509	87-010-371-089		CAP,E 470-6.3
C515	87-010-545-089		CAP,E 0.22-50 SME
C516	87-010-545-089		CAP,E 0.22-50 SME
C517	87-010-955-089		C-CAP,0.33-16 R
C518	87-016-492-089		C-CAP,S 0.33-16 FZ
C521	87-010-197-089		C-CAP,S 0.01-25 B
C522	87-010-318-089		C-CAP,S 47P-50 CH
C523	87-010-197-089		C-CAP,S 0.01-25 B
C524	87-010-402-089		CAP,E 2.2-50 SME
C530	87-010-194-089		C-CAP,S 0.047-25 F
C531	87-010-545-089		CAP,E 0.22-50 SME
C532	87-010-382-089		CAP,E 22-25 SME
C533	87-010-404-089		CAP,E 4.7-50 SME
C534	87-010-404-089		CAP,E 4.7-50 SME
C535	87-010-404-089		CAP,E 4.7-50 SME
C536	87-010-404-089		CAP,E 4.7-50 SME
C537	87-010-196-089		C-CAP,S 0.1-25 F
C538	87-010-384-089		CAP,E 100-25 SME
C539	87-010-196-089		C-CAP,S 0.1-25 F
C540	87-010-196-089		C-CAP,S 0.1-25 F
C541	87-010-196-089		C-CAP,S 0.1-25 F
C543	87-010-544-089		CAP,E 0.1-50
C544	87-010-544-089		CAP,E 0.1-50
C545	87-010-400-089		CAP,E 0.47-50 SME
C546	87-010-400-089		CAP,E 0.47-50 SME
C547	87-010-213-089		C-CAP,S 0.015-50 B
C548	87-010-213-089		C-CAP,S 0.015-50 B
C549	87-010-196-089		C-CAP,S 0.1-25 F
C550	87-010-183-089		C-CAP,S 2700P-50 B
C551	87-016-492-089		C-CAP,S 0.33-16 FZ
C552	87-016-081-089		C-CAP,S 0.1-16 RK
C553	87-016-081-089		C-CAP,S 0.1-16 RK
C554	87-010-183-088		C-CAP,S 2700P-50 B
C555	87-010-183-088		C-CAP,S 2700P-50 B
C557	87-015-775-089		C-CAP,820P-50 SL
C558	87-010-177-089		C-CAP,S 820P-50 SL
C560	87-010-318-089		C-CAP,S 47P-50 CH
C571	87-015-819-088		C-CAP,0.01
C572	87-010-197-088		C-CAP,S 0.01-25 B
C601	87-010-401-089		CAP,E 1-50 SME
C602	87-010-405-089		CAP,E 10-50 SME
C603	87-010-101-089		CAP,E 220-16 SME
C605	87-015-627-089		C-CAP,1000P-50 B
C606	87-015-627-089		C-CAP,1000P-50 B
C607	87-010-404-089		CAP,E 4.7-50 SME
C608	87-010-404-089		CAP,E 4.7-50 SME
C609	87-010-404-089		CAP,E 4.7-50 SME
C610	87-010-404-089		CAP,E 4.7-50 SME
C611	87-010-179-089		C-CAP,S 1200P-50 B
C612	87-010-179-089		C-CAP,S 1200P-50 B
C613	87-010-404-089		CAP,E 4.7-50 SME
C614	87-010-404-089		CAP,E 4.7-50 SME
C615	87-010-400-089		CAP,E 0.47-50 SME
C616	87-010-400-089		CAP,E 0.47-50 SME
C617	87-010-197-089		C-CAP,S 0.01-25 B
C618	87-010-197-089		C-CAP,S 0.01-25 B
C619	87-010-184-089		C-CAP,S 3300P-50 B
C620	87-010-184-089		C-CAP,S 3300P-50 B
C621	87-012-155-089		C-CAP,S 180P-50 CH
C622	87-012-155-089		C-CAP,S 180P-50 CH
C623	87-010-405-089		CAP,E 10-50 SME
C624	87-010-405-089		CAP,E 10-50 SME
C630	87-010-405-089		CAP,E 10-50 SME
C631	87-010-403-089		CAP,E 3.3-50 SME
C641	87-015-785-089		C-CAP,0.1-25 F
C642	87-010-196-089		C-CAP,S 0.1-25 F
C645	87-016-492-089		C-CAP,S 0.33-16 FZ
C646	87-016-492-089		C-CAP,S 0.33-16 FZ
C651	87-010-316-088		C-CAP,S 33P-50 CH
C652	87-010-316-088		C-CAP,S 33P-50 CH
C701	87-010-381-089		CAP,E 330-16 SME
C702	87-010-404-089		CAP,E 4.7-50 SME
C703	87-010-197-089		C-CAP,S 0.01-25 B
C704	87-010-197-089		C-CAP,S 0.01-25 B
C711	87-010-263-089		CAP,E 100-10
C712	87-010-196-089		C-CAP,S 0.1-25 F
C722	87-010-311-089		C-CAP,S 12P-50 CH
C723	87-010-178-089		C-CAP,S 1000P-50 B
C725	87-010-178-089		C-CAP,S 1000P-50 B
C726	87-018-131-089		CAP,TC-U 1000P-50 B
C727	87-010-194-089		C-CAP,S 0.047-25 F
C728	87-010-248-089		CAP,E 220-10 SME
C732	87-018-134-089		CAP,TC-U 0.01-16 Y
C735	87-018-209-089		CAP,TC-U 0.1-50 F
C770	87-010-197-080		C-CAP,S 0.01-25 K B
C771	87-010-405-089		CAP,E 10-50 SME
C772	87-010-194-089		C-CAP,S 0.047-25 F
C773	87-010-196-089		C-CAP,S 0.1-25 F
C774	87-010-263-089		CAP,E 100-10
C775	87-010-405-089		CAP,E 10-50 SME
C776	87-018-134-089		CAP,TC-U 0.01-16 Y
C777	87-010-400-089		CAP,E 0.47-50 SME
C778	87-010-401-089		CAP,E 1-50 SME
C779	87-010-401-089		CAP,E 1-50 SME
C780	87-010-197-089		C-CAP,S 0.01-25 B
C781	87-010-405-089		CAP,E 10-50 SME
C782	87-010-405-089		CAP,E 10-50 SME
C787	87-010-184-089		C-CAP,S 3300P-50 B
C788	87-010-184-089		C-CAP,S 3300P-50 B
C789	87-010-179-089		C-CAP,S 1200P-50 B
C790	87-010-179-089		C-CAP,S 1200P-50 B
C791	87-010-401-089		CAP,E 1-50 SME
C792	87-010-180-089		C-CAP,S 1500P-50 B
C793	87-010-189-089		C-CAP,S 8200P-50 B
C794	87-010-260-089		CAP,E 47-25 SME
C795	87-010-194-089		C-CAP,S 0.047-25 F
C796	87-010-403-089		CAP,E 3.3-50 SME
C797	87-010-405-089		CAP,E 10-50 SME

REF. NO	PART NO.	カンリ NO.	DESCRIPTION
C798	87-010-196-089		C-CAP,S 0.1-25 F
C802	87-018-134-089		CAP,TC-U 0.01-16 Y
C803	87-018-134-089		CAP,TC-U 0.01-16 Y
C804	87-010-196-089		C-CAP,S 0.1-25 F
C814	87-010-197-089		C-CAP,S 0.01-25 B
C816	87-018-134-089		CAP,TC-U 0.01-16 Y
C817	87-010-197-089		C-CAP,S 0.01-25 B
C818	87-010-197-089		C-CAP,S 0.01-25 B
C819	87-010-197-089		C-CAP,S 0.01-25 B
C820	87-010-260-089		CAP,E 47-25 SME
C821	87-010-197-089		C-CAP,S 0.01-25 B
C822	87-010-197-089		C-CAP,S 0.01-25 B
C823	87-010-197-089		C-CAP,S 0.01-25 B
C830	87-015-819-089		C-CAP,0.01
C831	87-010-197-089		C-CAP,S 0.01-25 B
C832	87-010-196-089		C-CAP,S 0.1-25 F
C833	87-018-209-089		CAP,TC-U 0.1-50 F
C837	87-018-134-089		CAP,TC-U 0.01-16 Y
C840	87-010-197-089		C-CAP,S 0.01-25 B
C941	87-010-197-088		C-CAP,S 0.01-25 B
C942	87-010-311-088		C-CAP,S 12P-50 CH
C944	87-010-154-089		C-CAP,S 10P-50 CH
C945	87-014-050-089		CAP,PP 510P-100 J
C946	87-010-401-089		CAP,E 1-50 SME
C947	87-010-197-089		C-CAP,S 0.01-25 B
C948	87-010-401-089		CAP,E 1-50 SME
C949	87-010-196-088		C-CAP,S 0.1-25 F
C950	87-010-322-089		C-CAP,S 100P-50 CH
C983	87-010-544-089		CAP,E 0.1-50
C985	87-010-196-089		C-CAP,S 0.1-25 F
C987	87-018-134-089		CAP,TC-U 0.01-16 Y
C988	87-010-196-089		C-CAP,S 0.1-25 F
C990	87-018-134-089		CAP,TC-U 0.01-16 Y
C993	87-010-197-088		C-CAP,S 0.01-25 B
CF801	87-008-261-019		FLTR,SFE10.7MA5-A
CF802	87-008-261-019		FLTR,SFE10.7MA5-A
FFE801	A8-6ZA-193-030		6ZA-1 FEVNM
J250	87-099-678-019		JACK,6.3 W/S BLK
J253	87-099-474-019		JACK,PIN 3P BLK
J254	87-033-227-019		TERMINAL,SP 4P R (Z)
J652	80-MT3-616-019		JACK,PIN 2P
J801	87-A60-202-010		TERMINAL,ANT 4P MSP-154V-02
L201	87-003-383-019		COIL,1UH-S
L202	87-003-383-019		COIL,1UH-S
L401	87-003-131-089		COIL,10MMH J
L402	87-003-131-089		COIL,10MMH J
L403	87-005-525-089		COIL,22MH-J
L404	87-005-525-089		COIL,22MH-J
L451	87-007-336-019		COIL,OSC 85K BIAS
L701	81-631-643-019		COIL 1 POLE MPX
L702	81-631-643-019		COIL 1 POLE MPX
L741	87-006-253-019		COIL,FM DET N
L742	82-NT1-659-019		FLTR,CFAZ-450 2NT
L770	87-003-102-089		COIL,10UH
L832	87-003-098-089		COIL,2.2UH
L941	87-006-208-019		COIL,ANT LW
L942	87-007-305-019		COIL,OSC LW S
L981	81-MX4-619-019		AM PACK 4
R105	87-022-600-089		RES,M/F 0.1-2W J
R106	87-022-600-089		RES,M/F 0.1-2W J
RY101	87-045-285-010		RELAY,VB12MB
SFR301	87-024-168-089		SFR,1K DIA6 V
SFR302	87-024-168-089		SFR,1K DIA6 V
SFR351	87-024-168-089		SFR,1K DIA6 V
SFR352	87-024-168-089		SFR,1K DIA6 V
SFR401	87-024-168-089		SFR,1K DIA6 V
SFR402	87-024-168-089		SFR,1K DIA6 V
SFR451	87-024-175-089		SFR,47K DIA6 V
SFR452	87-024-175-089		SFR,47K DIA6 V
SFR722	87-024-651-080		SFR,6.8K DIA6 V
TC701	87-011-221-089		TRIMMER.30P VCT51
TC942	87-011-221-089		TRIMER.30P VCT51
VR651	83-NF5-639-019		VR,50KBX2 RK14K12A0
W101	83-NF6-635-119		CONN ASSY,7P(PT2)
W102	82-NF7-670-019		CABLE FFC 6P-1.25
X703	84-508-618-019		VIB,CER CSB 456 F15
X721	87-030-163-019		VIB,XTAL 7.2MHZ(NDK).

FRONT C.B

REF. NO	PART NO.	カンリ NO.	DESCRIPTION
C121	87-010-405-049		CAP,E 10-50 SME
C122	87-010-405-049		CAP,E 10-50 SME
C140	87-010-384-049		CAP,E 100-25 SME
C200	87-010-316-089		C-CAP,S 33P-50 CH
C201	87-010-313-089		C-CAP,S 18P-50 CH
C202	87-010-316-089		C-CAP,S 33P-50 CH
C203	87-015-785-089		C-CAP,0.1-25 F
C204	87-010-248-049		CAP,E 220-10 SME
C205	87-010-494-049		CAP,E 1-50 GAS
C206	87-010-196-089		C-CAP,S 0.1-25 F
C207	87-010-196-089		C-CAP,S 0.1-25 F
C208	87-010-263-049		CAP,E 100-10
C209	87-010-494-049		CAP,E 1-50 GAS
C210	87-010-178-089		C-CAP,S 1000P-50 B
C211	87-010-196-089		C-CAP,S 0.1-25 F
C212	87-010-405-049		CAP,E 10-50 SME
C300	87-010-196-089		C-CAP,S 0.1-25 F
C400	87-010-196-089		C-CAP,S 0.1-25 F
C401	87-010-196-089		C-CAP,S 0.1-25 F
C402	87-010-196-089		C-CAP,S 0.1-25 F
C500	87-010-178-089		C-CAP,S 1000P-50 B
C501	87-010-196-089		C-CAP,S 0.1-25 F
C502	87-010-196-089		C-CAP,S 0.1-25 F
C503	87-010-196-089		C-CAP,S 0.1-25 F
C504	87-010-408-049		CAP-E 47-50 SME
C505	87-010-496-049		CAP,E 3.3-50 GAS
C506	87-010-496-049		CAP,E 3.3-50 GAS
C507	87-015-785-089		C-CAP,0.1-25 F
C508	87-015-785-089		C-CAP,0.1-25 F
C600	87-015-785-089		C-CAP,0.1-25 F
C601	87-010-405-049		CAP,E 10-50 SME
C602	87-010-176-089		C-CAP,S 680P-50 SL
C603	87-010-196-089		C-CAP,S 0.1-25 F
C604	87-012-156-089		C-CAP,S 220P-50 CH
C605	87-010-319-089		C-CAP,S 56P-50 CH
C606	87-016-462-089		C-CAP,S 1-16 F
C607	87-010-196-089		C-CAP,S 0.1-25 F
C608	87-010-322-089		C-CAP,S 100P-50 CH
C609	87-010-544-049		CAP,E 0.1-50 SME
C610	87-012-155-089		C-CAP,S 180P-50 CH
C611	87-010-406-049		CAP,E 22-50 SME
C614	87-010-263-049		CAP,E 100-10
C615	87-010-405-049		CAP,E 10-50 SME
C617	87-010-188-089		C-CAP,S 6800P-50 B
C618	87-010-188-089		C-CAP,S 6800P-50 B
C650	87-010-152-089		C-CAP,S 8P-50 CH
C651	87-010-152-089		C-CAP,S 8P-50 CH
C652	87-010-426-089		C-CAP,S 0.012-25 B
C654	87-010-178-089		C-CAP,S 1000P-50 B
C656	87-010-196-089		C-CAP,S 0.1-25 F
C657	87-010-263-049		CAP,E 100-10
C659	87-010-184-089		C-CAP,S 3300P-50 B
C660	87-010-426-089		C-CAP,S 0.012-25 B
C662	87-010-544-049		CAP,E 0.1-50 SME
C663	87-010-260-049		CAP,E 47-25 SME
C664	87-012-141-089		C-CAP,S 0.22-16 F
C665	87-018-209-089		CAP,TC-U 0.1-50 F
C666	87-010-179-089		C-CAP,S 1200P-50 B
C667	87-010-177-089		C-CAP,S 820P-50 SL
C668	87-018-209-089		CAP,TC-U 0.1-50 F

REF. NO	PART NO.	カンリ NO.	DESCRIPTION
C669	87-010-404-049		CAP,E 4.7-50 SME
C670	87-010-404-049		CAP,E 4.7-50 SME
C671	87-010-318-089		C-CAP,S 47P-50 CH
C672	87-010-322-089		C-CAP,S 100P-50 CH
C902	87-010-196-089		C-CAP,S 0.1-25 F
CON140	82-NF5-630-119		CONN ASSY,7P
CON150	82-NE8-634-019		CONN ASSY,10P D2
EMI600	87-008-372-089		FLTR,EMI BL 01RN1
FL500	83-NF6-618-019		FL,BJ321GK(SPEANA)
FL501	83-NF6-617-019		FL,7-BT-207GK(SYS)
J600	82-NF7-630-019		JACK,3.5 MO
J601	82-NF7-630-019		JACK,3.5 MO
L102	87-003-102-080		COIL,10UH K LAL02
L103	87-003-102-080		COIL,10UH K LAL02
L650	87-005-487-089		COIL,150UH J FLR50
LED400	87-017-350-080		LED,SEL1550CM
LED401	87-017-350-080		LED,SEL1550CM
LED402	87-017-350-080		LED,SEL1550CM
LED403	87-017-350-080		LED,SEL1550CM
LED404	87-017-350-080		LED,SEL1550CM
LED405	87-017-350-080		LED,SEL1550CM
LED406	87-017-731-080		LED,SEL1510CM2
LED407	87-017-731-080		LED,SEL1510CM2
LED408	87-017-731-080		LED,SEL1510CM2
LED409	87-017-731-080		LED,SEL1510CM2
LED410	87-017-731-080		LED,SEL1510CM2
LED411	87-017-731-080		LED,SEL1510CM2
LED412	87-017-731-080		LED,SEL1510CM2
LED413	87-017-731-080		LED,SEL1510CM2
LED414	87-017-785-080		LED,SEL4214S
LED415	87-017-785-080		LED,SEL4214S
LED416	87-017-785-080		LED,SEL4214S
LED417	87-017-785-080		LED,SEL4214S
S300	87-036-397-089		SW,TACT SKQNAB
S301	87-036-397-089		SW,TACT SKQNAB
S302	87-036-397-089		SW,TACT SKQNAB
S303	87-036-397-089		SW,TACT SKQNAB
S304	87-036-397-089		SW,TACT SKQNAB
S305	87-036-397-089		SW,TACT SKQNAB
S306	87-036-397-089		SW,TACT SKQNAB
S307	87-036-397-089		SW,TACT SKQNAB
S308	87-036-397-089		SW,TACT SKQNAB
S309	87-036-397-089		SW,TACT SKQNAB
S310	87-036-397-089		SW,TACT SKQNAB
S311	87-036-397-089		SW,TACT SKQNAB
S312	87-036-397-089		SW,TACT SKQNAB
S313	87-036-397-089		SW,TACT SKQNAB
S314	87-036-397-089		SW,TACT SKQNAB
S315	87-036-397-089		SW,TACT SKQNAB
S316	87-036-397-089		SW,TACT SKQNAB
S317	87-036-397-089		SW,TACT SKQNAB
S318	87-036-397-089		SW,TACT SKQNAB
S319	87-036-397-089		SW,TACT SKQNAB
S320	87-036-397-089		SW,TACT SKQNAB
S321	87-036-397-089		SW,TACT SKQNAB
S322	87-036-397-089		SW,TACT SKQNAB
S323	87-036-397-089		SW,TACT SKQNAB
S324	87-036-397-089		SW,TACT SKQNAB
S325	87-036-397-089		SW,TACT SKQNAB
S326	87-036-397-089		SW,TACT SKQNAB
S327	87-036-397-089		SW,TACT SKQNAB
S328	87-036-397-089		SW,TACT SKQNAB
S329	87-036-397-089		SW,TACT SKQNAB
S330	87-036-397-089		SW,TACT SKQNAB
S331	87-036-397-089		SW,TACT SKQNAB
S332	87-036-397-089		SW,TACT SKQNAB
S333	87-036-397-089		SW,TACT SKQNAB
S334	87-036-397-089		SW,TACT SKQNAB
S335	87-036-397-089		SW,TACT SKQNAB
S336	87-036-397-089		SW,TACT SKQNAB
S337	87-036-397-089		SW,TACT SKQNAB
VR600	82-NK7-616-019		VR,10KB RK11K1130
VR601	82-NK7-615-019		VR,10KA RK11K1130
W130	83-NFL-632-018		CABLE FFC,13P-1.25
X200	87-030-376-089		VIB,CER CSA5.76MG200

MVR C.B

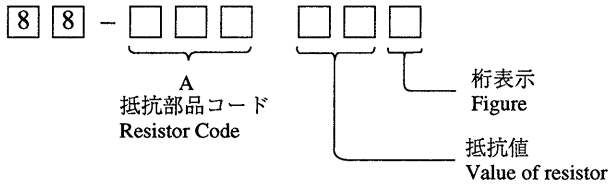
C700	87-010-381-089		CAP,E 330-16 SME
C701	87-010-196-089		C-CAP,S 0.1-25 F
C702	87-010-196-089		C-CAP,S 0.1-25 F
C751	87-010-260-049		CAP,E 47-25 SME
C752	87-010-260-049		CAP,E 47-25 SME
C753	87-010-178-089		C-CAP,S 1000P-50 B
C754	87-010-178-089		C-CAP,S 1000P-50 B
C755	87-010-545-049		CAP,E 0.22-50 SME
C756	87-010-545-049		CAP,E 0.22-50 SME
C757	87-010-546-049		CAP,E 0.33-50
C758	87-010-546-049		CAP,E 0.33-50
C761	87-010-545-049		CAP,E 0.22-50 SME
C762	87-010-545-049		CAP,E 0.22-50 SME
C763	87-010-193-089		C-CAP,S 0.033-25 F
C764	87-010-193-089		C-CAP,S 0.033-25 F
C767	87-010-213-089		C-CAP,S 0.015-50 B
C768	87-010-213-089		C-CAP,S 0.015-50 B
C769	87-010-198-089		C-CAP,S 0.022-25 B
C770	87-010-198-089		C-CAP,S 0.022-25 B
C771	87-010-187-089		C-CAP,S 5600P-50 B
C772	87-010-187-089		C-CAP,S 5600P-50 B
C773	87-010-197-089		C-CAP,S 0.01-25 B
C774	87-010-197-089		C-CAP,S 0.01-25 B
C775	87-010-183-089		C-CAP,S 2700P-50 B
C776	87-010-183-089		C-CAP,S 2700P-50 B
C777	87-010-184-089		C-CAP,S 3300P-50 B
C778	87-010-184-089		C-CAP,S 3300P-50 B
C779	87-010-180-089		C-CAP,S 1500P-50 B
C780	87-010-180-089		C-CAP,S 1500P-50 B
C781	87-010-180-089		C-CAP,S 1500P-50 B
C782	87-010-180-089		C-CAP,S 1500P-50 B
C783	87-010-402-040		CAP,E 2.2-50 SME
C784	87-010-403-089		CAP,E 3.3-50 SME
C784	87-010-402-040		CAP,E 2.2-50 SME
C785	87-010-402-049		CAP,E2.2-50 SME
C786	87-010-402-049		CAP,E2.2-50 SME
C787	87-012-140-089		C-CAP,S 470P-50 CH
C788	87-012-140-089		C-CAP,S 470P-50 CH
C791	87-010-197-088		C-CAP,S 0.01-25 B
C792	87-010-197-088		C-CAP,S 0.01-25 B
C800	87-010-196-089		C-CAP,S 0.1-25 F
C802	87-010-381-089		CAP,E 330-16 SME
C803	87-010-263-049		CAP,E 100-10
C804	87-010-263-049		CAP,E 100-10
C811	87-010-403-089		CAP,E 3.3-50 SME
C812	87-010-403-089		CAP,E 3.3-50 SME
C813	87-010-297-089		C-CAP,100P-50CH
C814	87-010-322-089		C-CAP,S 100P-50 CH
C815	87-012-157-089		C-CAP,S 330P-50 CH
C816	87-012-157-089		C-CAP,S 330P-50 CH
C850	87-010-196-089		C-CAP,S 0.1-25 F
C851	87-018-134-088		CAP,TC-U 0.01-16 Y
C852	87-018-134-088		CAP,TC-U 0.01-16 Y
C861	87-016-073-049		CAP,E 1-50 FX
C862	87-016-073-049		CAP,E 1-50 FX
C863	87-010-403-049		CAP,E 3.3-50 SME
C864	87-010-403-049		CAP,E 3.3-50 SME
C865	87-010-401-049		CAP,E 1-50 SME
C866	87-010-401-049		CAP,E 1-50 SME
C867	87-010-322-089		C-CAP,S 100P-50 CH
C868	87-010-322-089		C-CAP,S 100P-50 CH
C869	87-010-401-049		CAP,E 1-50 SME

REF. NO	PART NO.	カンリ NO.	DESCRIPTION
C870	87-010-401-049		CAP,E 1-50 SME
C890	87-010-545-049		CAP,E 0.22-50 SME
C891	87-010-402-049		CAP,E 2.2-50 SME
C893	87-010-401-049		CAP,E 1-50 SME
MVR800	84-MA1-712-019		VR,50KB*2 (M)
KEY C.B			
C900	87-010-197-089		C-CAP,S 0.01-25 B
C901	87-010-196-089		C-CAP,S 0.1-25 F
LED900	87-017-489-080		LED,SEL1450GM TP5
LED901	87-017-489-080		LED,SEL1450GM TP5
LED902	87-017-489-080		LED,SEL1450GM TP5
S900	87-036-397-089		SW,TACT SKQNAB
S901	87-036-397-089		SW,TACT SKQNAB
S902	87-036-397-089		SW,TACT SKQNAB
S903	87-036-397-089		SW,TACT SKQNAB
S904	87-036-397-089		SW,TACT SKQNAB
W900	83-NF5-632-019		CABLE FFC 6P-1.25
PT C.B			
⚠	87-033-213-089		CLAMP FUSE SMK
⚠	82-304-743-019		TERMINAL,1P
⚠F101	87-035-193-018		FUSE,T5A 250V
⚠PT101	84-NF6-713-018		PT,4NF-6 EKZ

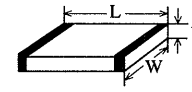
REF. NO	PART NO.	カンリ NO.	DESCRIPTION
PT2 C.B			
⚠	87-033-213-089		CLAMP FUSE SMK
⚠F102	87-035-193-018		FUSE,T5A 250V
⚠F103	87-035-193-018		FUSE,T5A 250V
PIN101	82-481-697-019		PLUG MINITURE 5P
DECK-1 C.B			
SOL1	82-ZM1-618-310		SOL ASSY,27
SW4	87-036-110-010		SW,PUSH SPPB 62
SW5	87-036-110-010		SW,PUSH SPPB 62
SW6	87-036-110-010		SW,PUSH SPPB 62
DECK-2 C.B			
SFR1	87-024-170-080		SFR,3.3K DIA6 V
SOL2	82-ZM1-618-310		SOL ASSY,27
SW2	87-036-110-010		SW,PUSH SPPB 62
SW3	87-036-110-010		SW,PUSH SPPB 62
SW4	87-036-110-010		SW,PUSH SPPB 62
SW5	87-036-110-010		SW,PUSH SPPB 62
SW6	87-036-110-010		SW,PUSH SPPB 62
RELAY-1 C.B			
RELAY-2 C.B			

○ チップ抵抗部品コード／CHIP RESISTOR PART CODE

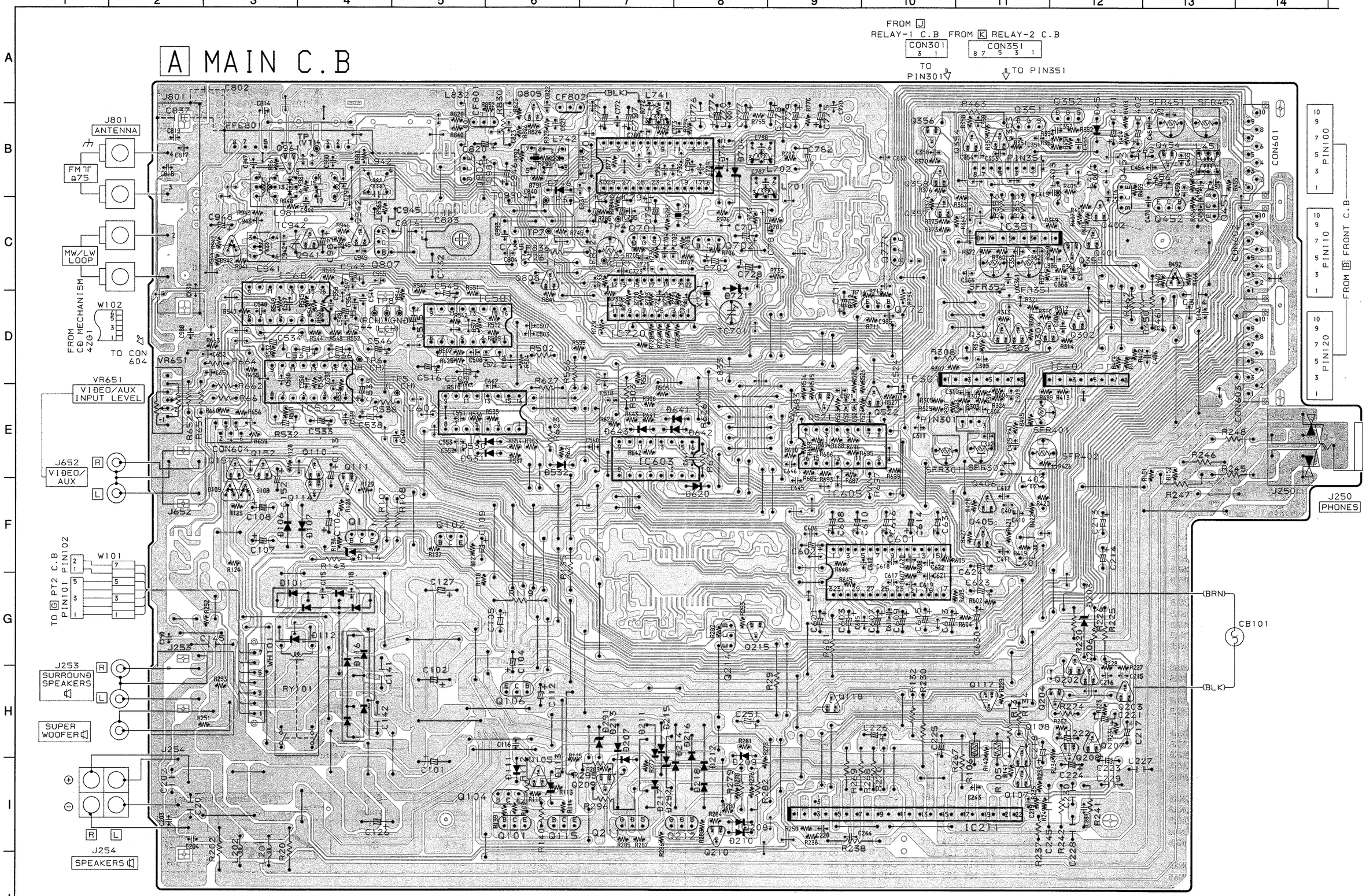
チップ抵抗部品コードの成り立ち
Chip Resistor Part Coding



チップ抵抗
Chip resistor

容量 Wattage	種類 Type	許容誤差 Tolerance	記号 Symbol	寸法／Dimensions (mm) 外形／Form	L	W	t	抵抗コード ：A Resistor Code: A
1／16W	1608	±5%	CJ		1.6	0.8	0.45	108
1／10W	2125	±5%	CJ		2	1.25	0.45	118
1／8W	3216	±5%	CJ		3.2	1.6	0.55	128

WIRING-1 (MAIN)



SCHEMATIC DIAGRAM-1 (MAIN)

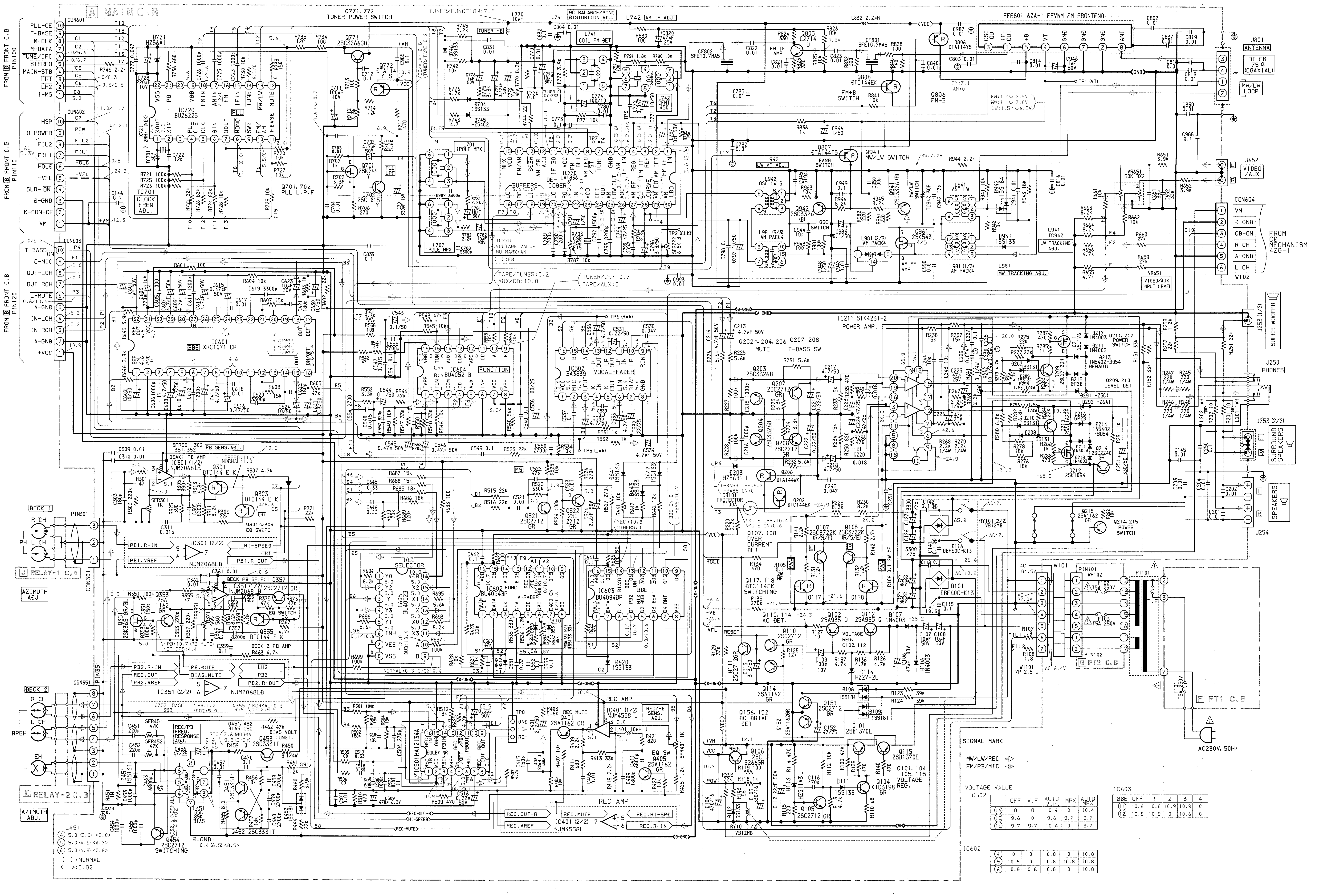
VOLTAGE VALUE

IC720

	⑩	⑬	⑯
FM	6.3	7.2	0.1
MW	0.1	0.1	7.2
LW	0.1	7.2	7.2

IC770

	①	②	③	④	⑤	⑥	⑦	⑧	⑨	⑩	⑪	⑫	⑬	⑭	⑮	⑯	⑰	⑱	⑲	⑳	㉑	㉒	㉓	㉔	㉕	㉖	㉗	㉘	㉙	㉚
FM	3.6	7.2	3.6	3.6	3.6	0	6.8/0	7.2/0	7.2	7.2	0	1.6	1.6	5.8	6.2	3.6	3.6	3.6	3.6	3.5	3.5	2.8	2.1	2.5	2.7	0	3.6	3.6	3.6	1.6
MW, LW	3.5	7.2	3.5	3.6	3.5	0	6.8/0	7.2/0	/	/	0	0	1.6	3.4	5.1	3.6	3.6	3.6	3.6	3.4	3.4	2.8	0.6	1.0	3.1	0.5	3.5	3.5	3.6	1.3



SIGNAL MARK

MW/LW/REC ⇨

FM/PB/MIC ⇨

VOLTAGE VALUE

IC502

	OFF	V.F.	AUTO V.F.	MPX	AUTO MPX
⑭	0	0	10.4	0	10.4
⑮	9.6	0	9.6	9.7	9.7
⑯	9.7	9.7	10.4	0	9.7

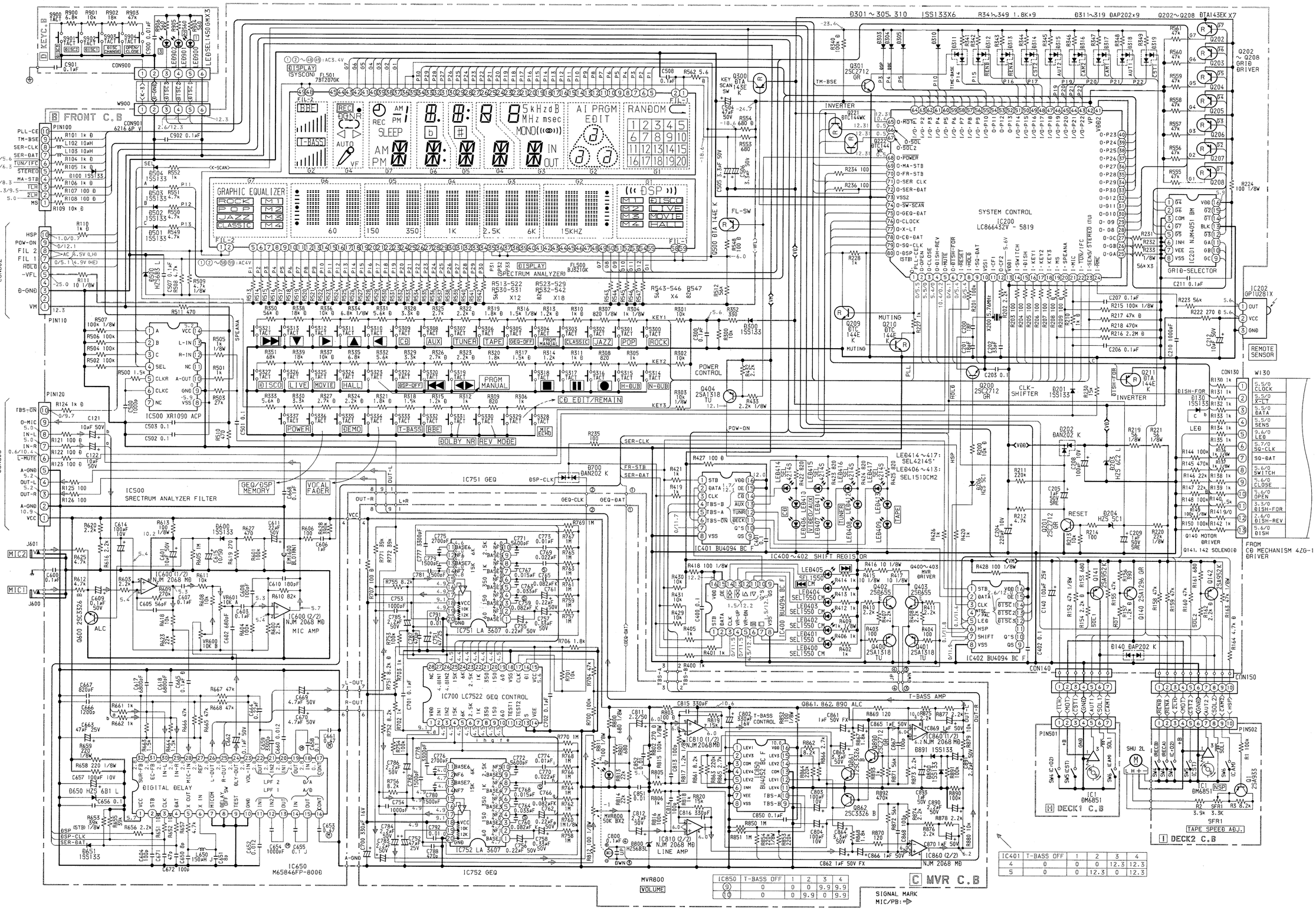
IC602

④	0	0	10.8	0	10.8
⑤	10.8	0	10.8	10.8	10.8
⑥	10.8	10.8	10.8	0	10.8

IC603

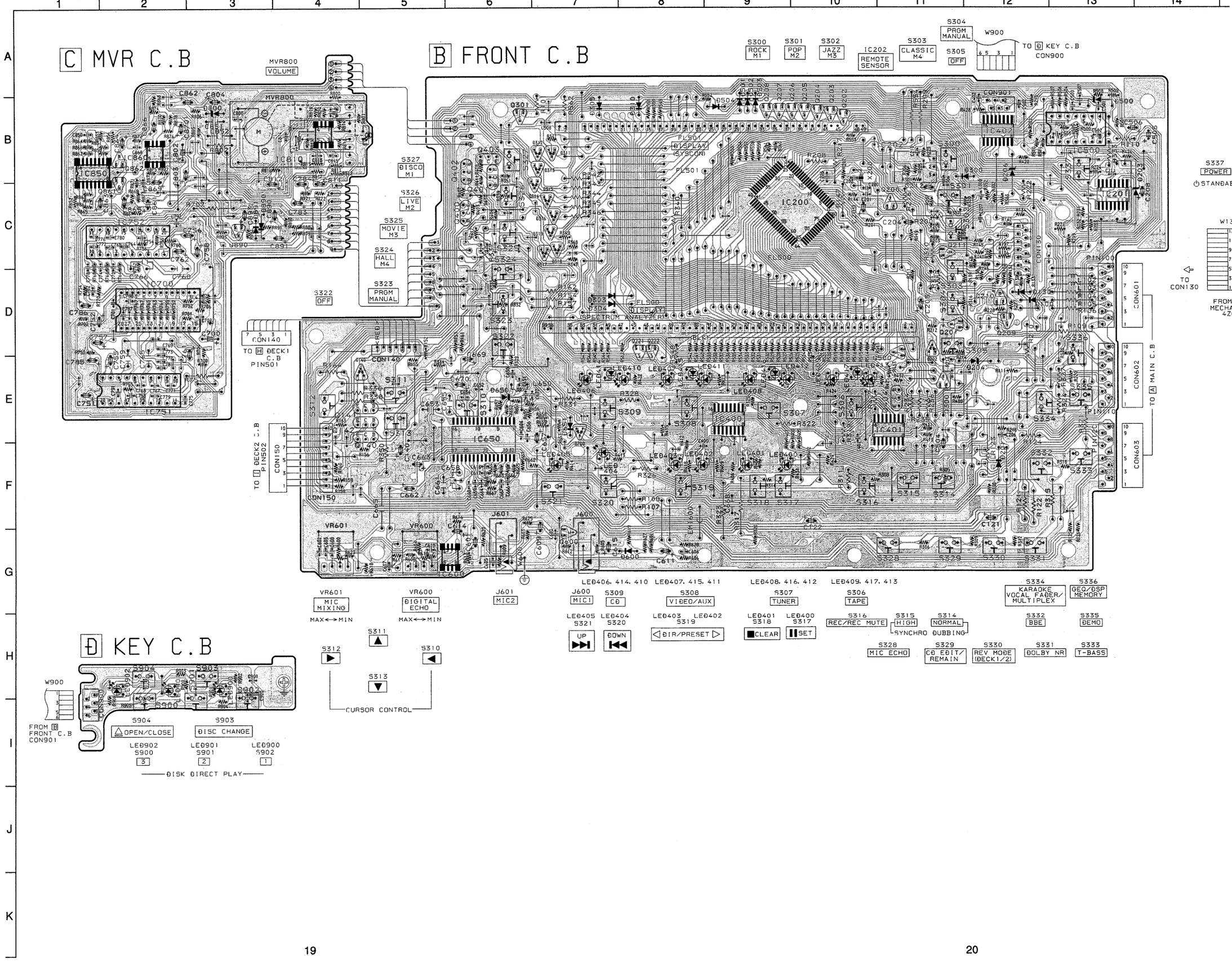
BBE	OFF	1	2	3	4
⑪	10.8	10.8	10.9	10.9	0
⑫	10.8	10.9	0	10.6	0

SCHEMATIC DIAGRAM-2 (FRONT)



IC401	T-BASS OFF	1	2	3	4
4	0	0	0	12.3	12.3
5	0	0	12.3	0	12.3

IC850	T-BASS OFF	1	2	3	4
9	0	0	0	9.9	9.9
10	0	0	9.9	0	9.9


C MVR C.B
MVR800
VOLUME
B FRONT C.B
S300 ROCK M1
S301 POP M2
S302 JAZZ M3
IC202 REMOTE SENSOR
S303 CLASSIC M4
S304 PRGM MANUAL
S305 OFF
W900
TO D KEY C.B CON900
S327 DISCO M1
S326 LIVE M2
S325 MOVIE M3
S324 HALL M4
S323 PRGM MANUAL
S322 OFF
S337 POWER
STANDBY/ON
W130
TO CON130
FROM CD MECHANISM 4ZG1
CON140
TO H DECK1 C.B PIN501
CON150
TO I DECK2 C.B PIN502
CON601
CON602
CON603
TO A MAIN C.B
FL501 DISPLAY (SYSCON)
FL500 DISPLAY (SPECTRUM ANALYZER)
IC200
IC700
IC751
IC650
IC402
IC401
VR601 MIC MIXING
VR600 DIGITAL ECHO
MAX↔MIN
J601 MIC2
J600 MIC1
S309 CD
S308 VIDEO/AUX
S307 TUNER
S306 TAPE
S316 REC/REC MUTE
S315 HIGH
S314 NORMAL
SYNCHRO DUBBING
S334 KARAOKE VOCAL FADER/ MULTIPLEX
S336 GEQ/DSP MEMORY
S332 BBE
S335 DEMO
S328 MIC ECHO
S329 CD EDIT/ REMAIN
S330 REV MODE (DECK1/2)
S331 DOLBY NR
S333 T-BASS
LED406. 414. 410
LED407. 415. 411
LED408. 416. 412
LED409. 417. 413
S321 UP
S320 DOWN
S319 DIR/PRESET
S318 CLEAR
S317 SET
D KEY C.B
W900
FROM B FRONT C.B CON901
S904 OPEN/CLOSE
S903 DISC CHANGE
LED902 S900 3
LED901 S901 2
LED900 S902 1
DISK DIRECT PLAY
S311
S312
S310
S313
CURSOR CONTROL

AC230V 50HZ

F PT1 C.B

F101

PT101

G PT2 C.B

F103

PIN102

PIN101

F102

W101

FROM A MAIN C.B
WH101

FROM B
FRONT C.B
CON150
10 9 7 5 3 1
TO PIN502

FROM B
FRONT C.B
CON140
7 5 3 1

ĐECK2 ONLY
SW2
(REC B)

SW6
(CAM)

SW5
(CST)

SW4
(CrO2)

ĐECK2 ONLY
SW3
(REC A)

TO PIN501

PIN501

PIN502

SW2
SW6
SW5
SW4
SW3
ĐECK2 ONLY
SFR101
R3
R2
Q1
C1
SOL1

M1
(ĐECK MOTOR)
M

(WHT/YEL)
(WHT/BLU)
(WHT/REĐ)
(REĐ)

H ĐECK1 C.B

I ĐECK2 C.B

K RELAY-2 C.B J RELAY-1 C.B

(WHT)
(GRY)
(PNK)
CON351
TO A MAIN C.B
PIN351

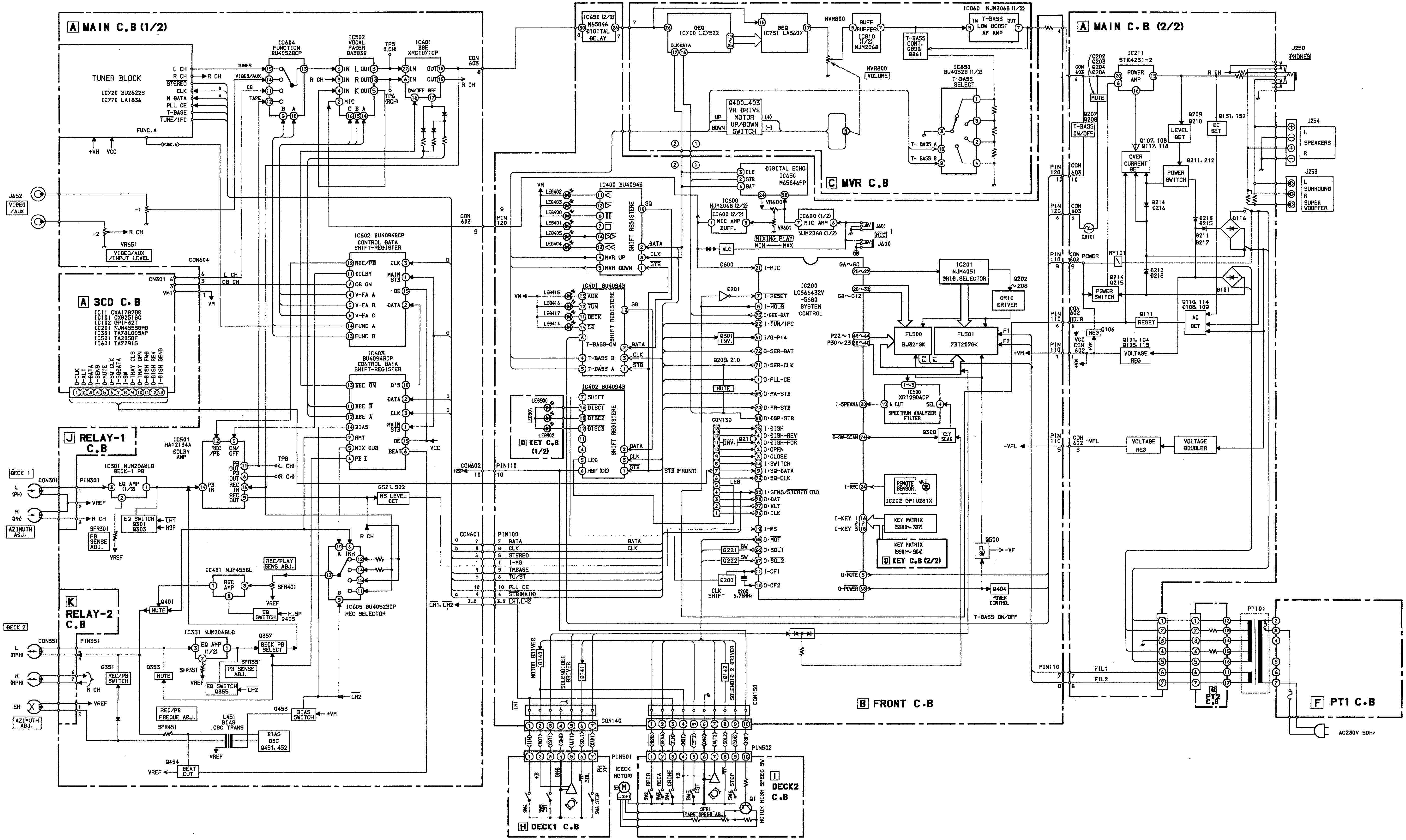
CON301
TO A MAIN C.B
PIN301

(BLU)
(BRN)
(YEL)
(BLK)
(REĐ)
(WHT)

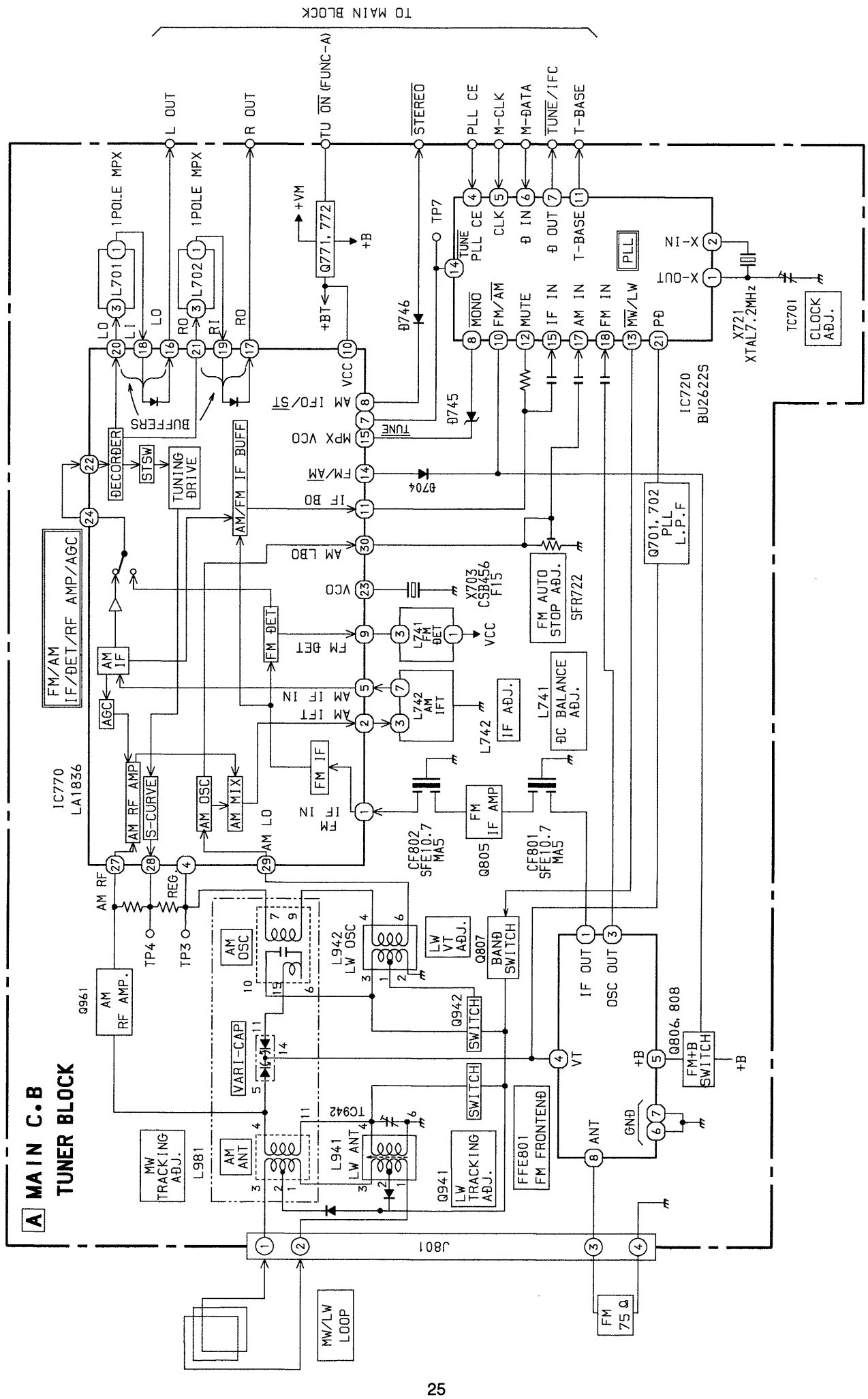
RPEH
(ĐECK 2)

PH
(ĐECK 1)

BLOCK DIAGRAM-1 (MAIN ／ FRONT)

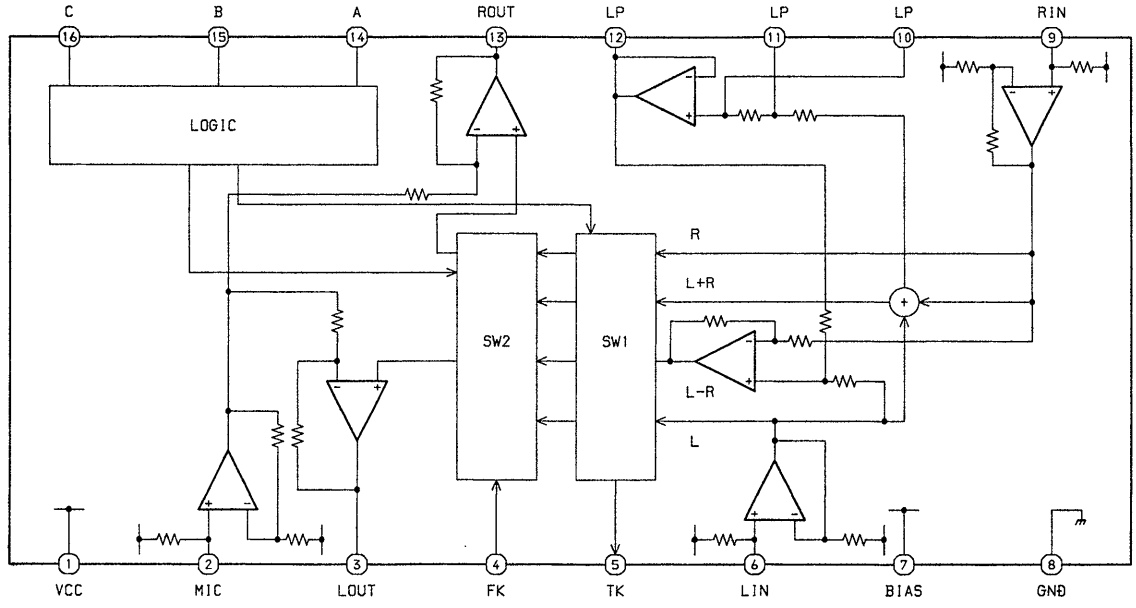


BLOCK DIAGRAM-2 (TUNER)

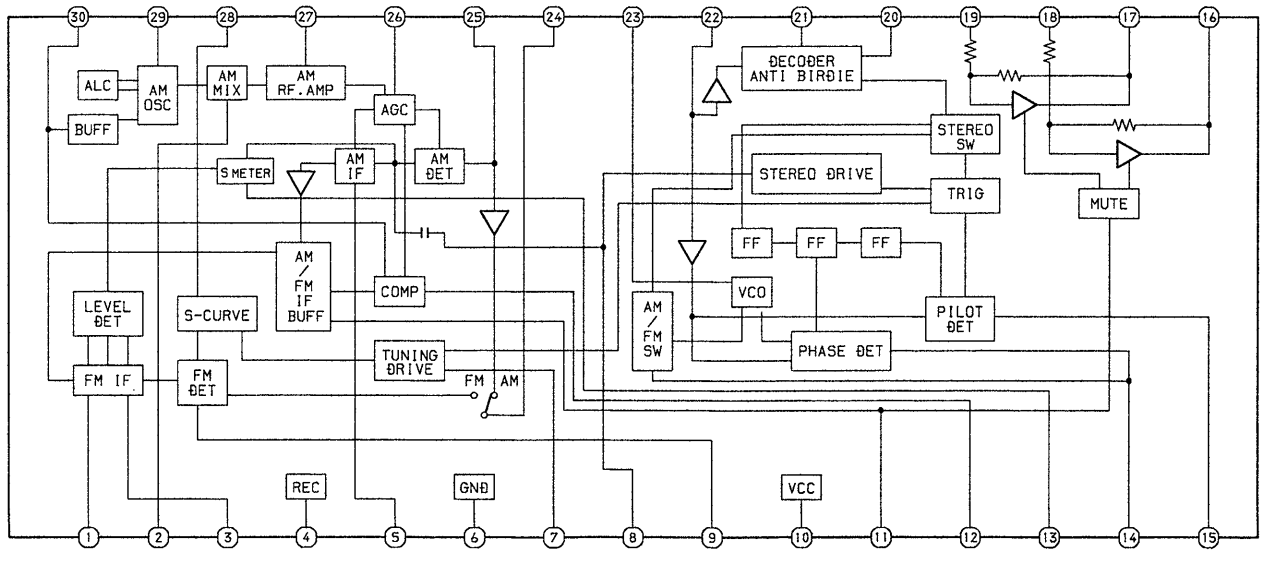


IC BLOCK DIAGRAM

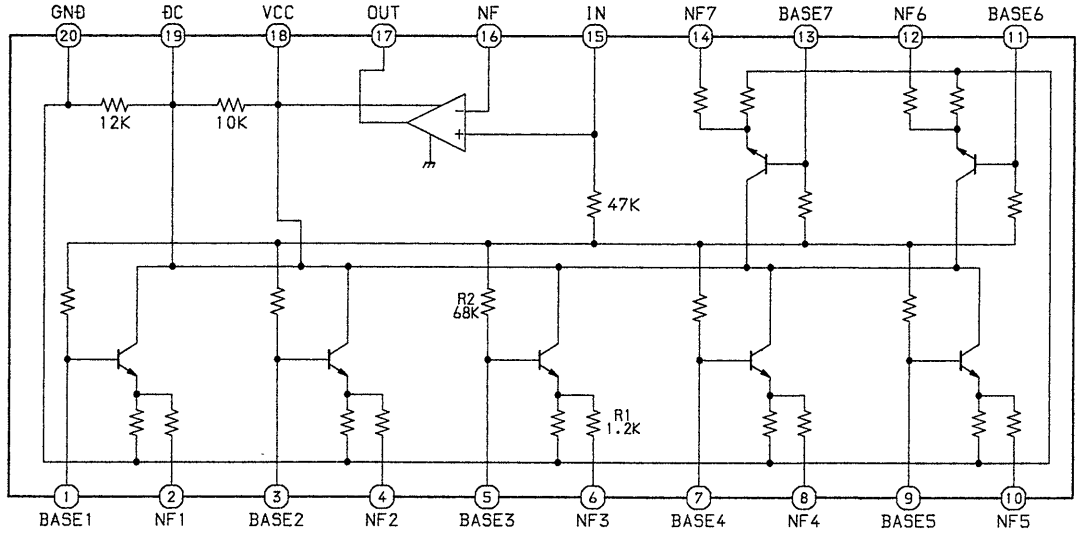
IC, BA3837



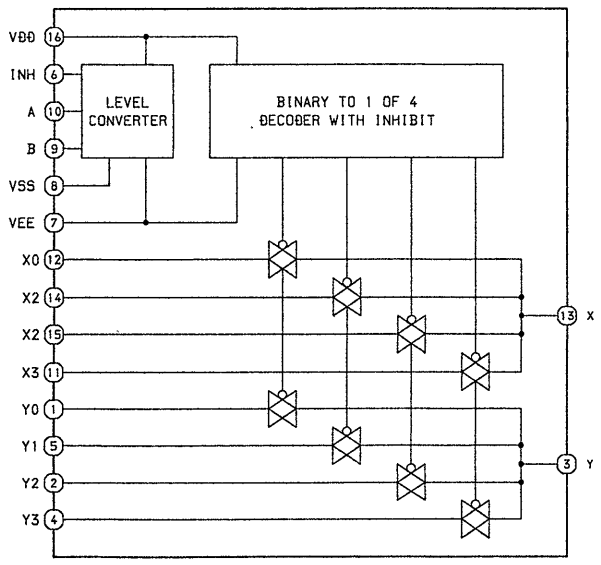
IC, LA1836



IC, LA3607



IC, BU4052BCF

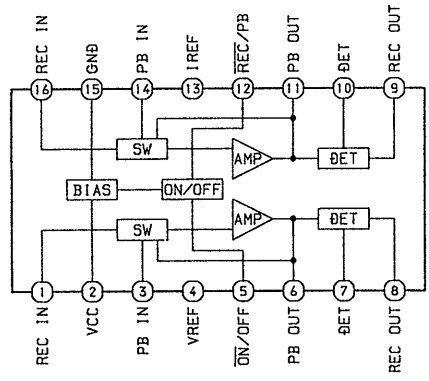


TRUTH TABLE

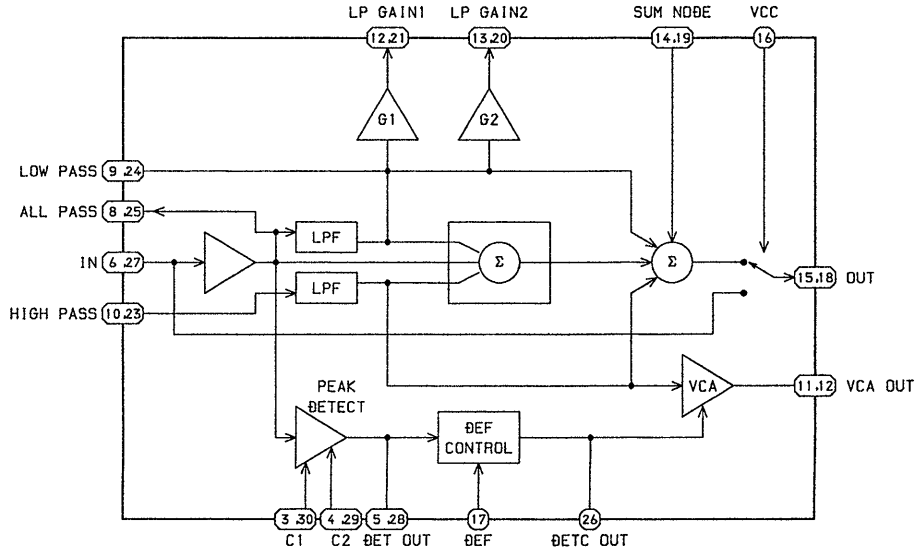
INHIBIT	A	B	NO SWITCH
L	L	L	X0 Y0
L	H	L	X1 Y1
L	L	H	X2 Y2
L	H	H	X3 Y3
H	X	X	NONE

X:DON'T CARE.

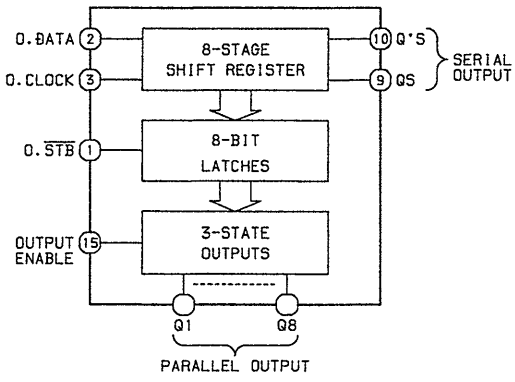
IC, HA12134A



IC, XR1071CP



IC, BU4094B/BF



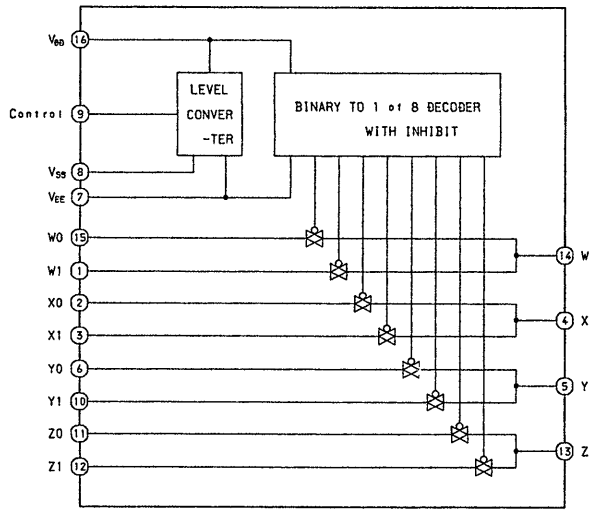
Q1:O.DOLBY ON Q5:O.PLAY
Q2:O.DOLBY C Q6:O.PB2
Q3:O.EXT.REC Q7:O.LED
Q4:O.INT.REC Q8:O.$\overline{RMT}$

TRUTH TABLE

CLOCK	OUTPUT ENABLE	STROBE	DATA	PARALLEL OUTPUTS		SERIAL OUTPUTS	
				Q1	Qn	QS	Q'S
↓	L	X	X	Z	Z	Q7	NO CHG.
↑	L	X	X	Z	Z	NO CHG.	QS
↓	H	L	X	NO CHG.	NO CHG.	Q7	NO CHG.
↓	H	H	L	L	Qn-1	Q7	NO CHG.
↓	H	H	H	H	Qn-1	Q7	NO CHG.
↑	H	X	X	NO CHG.	NO CHG.	NO CHG.	QS

Z = HIGH IMPEDANCE
X = DON'T CARE

IC, NJU4051BM

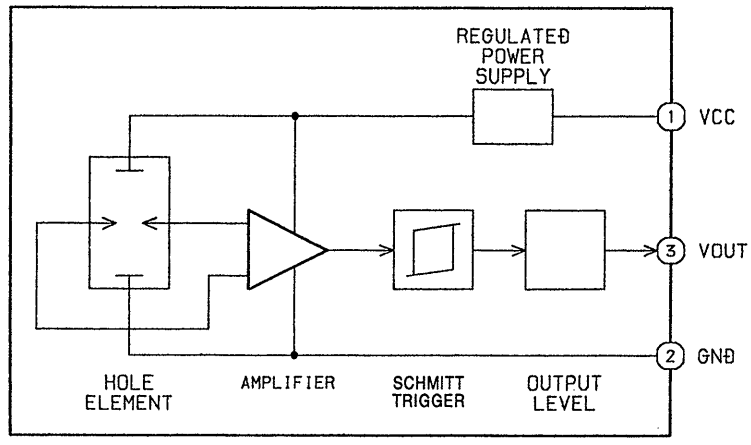


TRUTH TABLE

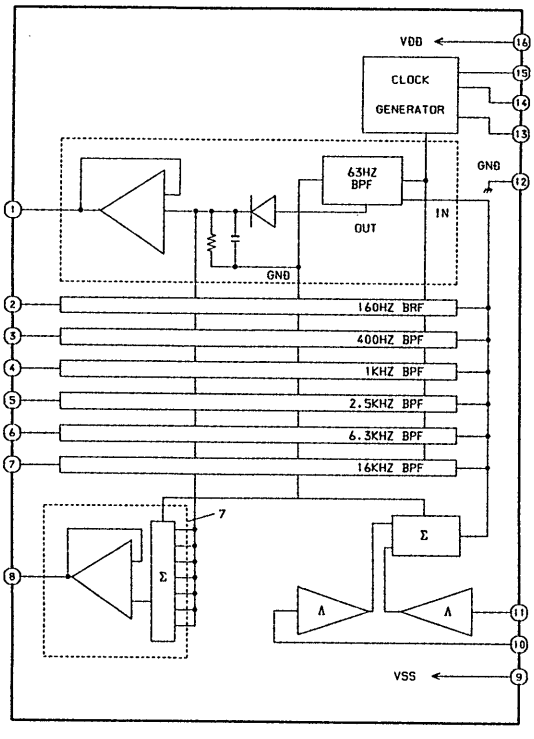
INHIBIT	A	B	C	ON SWITCH
L	L	L	L	X0
L	H	L	L	X1
L	L	H	L	X2
L	H	H	L	X3
L	L	L	H	X4
L	H	L	H	X5
L	L	H	H	X6
L	H	H	H	X7
H	X	X	X	NONE

X=Don't Care

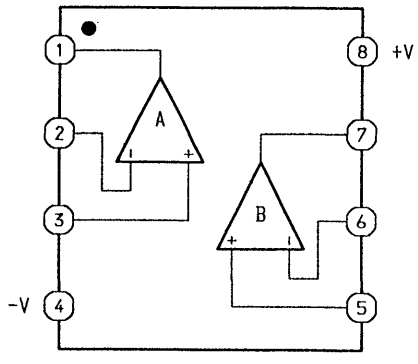
IC, DN6851



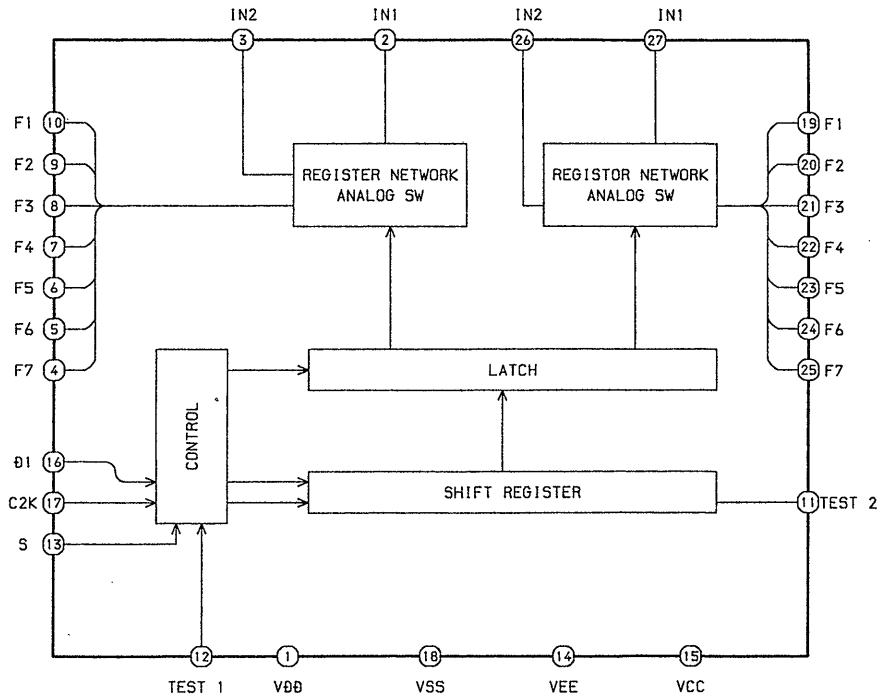
IC, XR1091



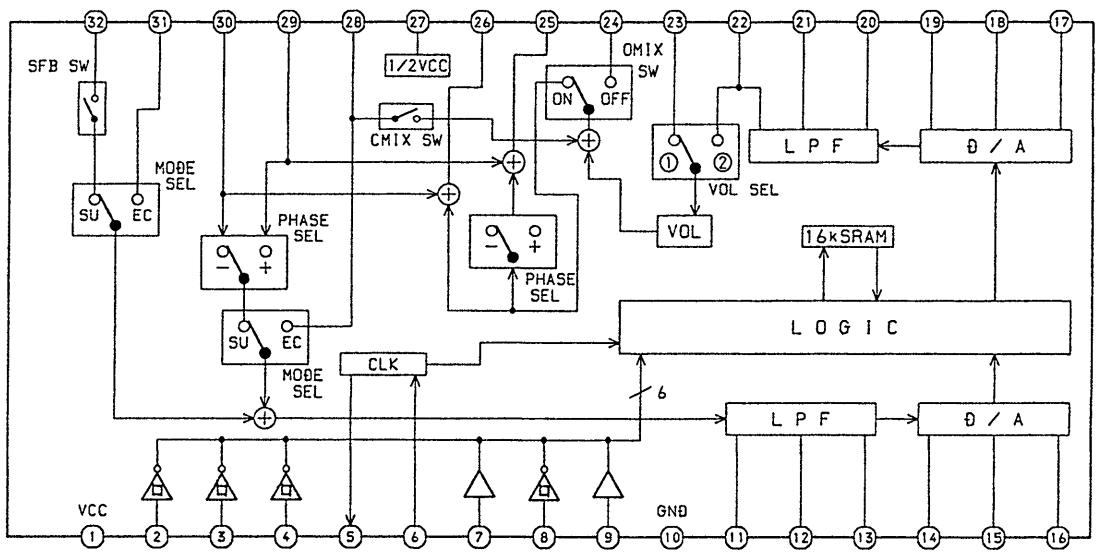
IC, NJM4558L



IC, LC7522

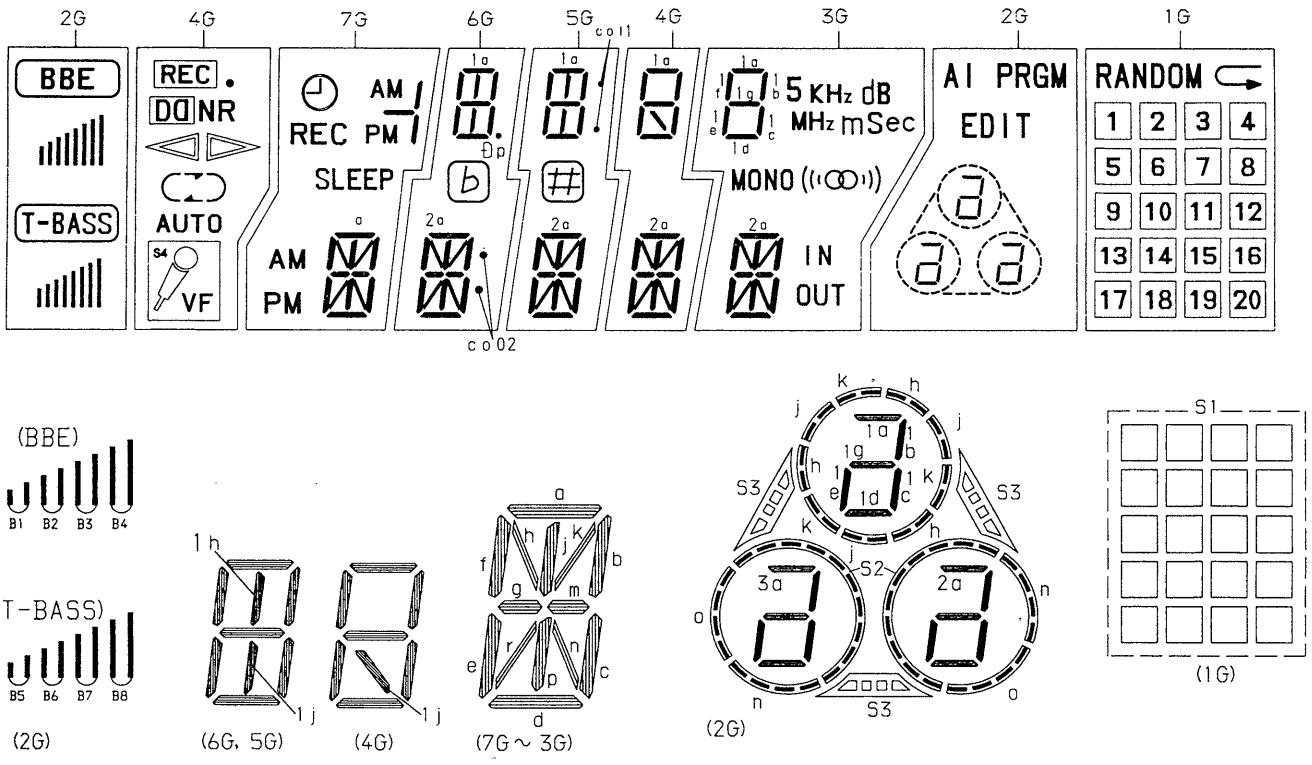


IC, M65846FP



FL (7-BT-207GK) GRID ASSIGNMENT / ANODE CONNECTION

GRID ASSIGNMENT

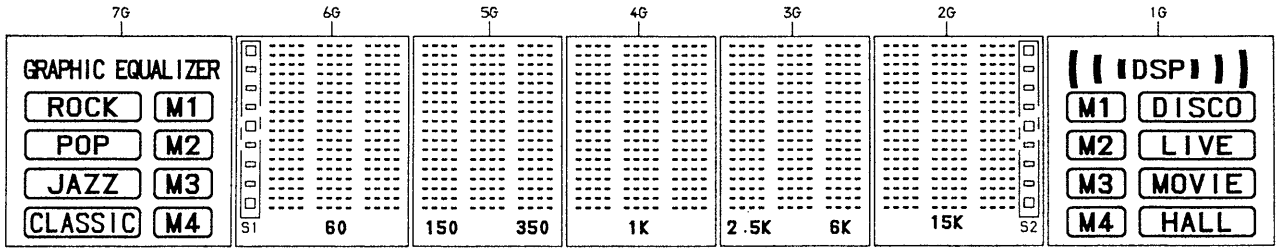


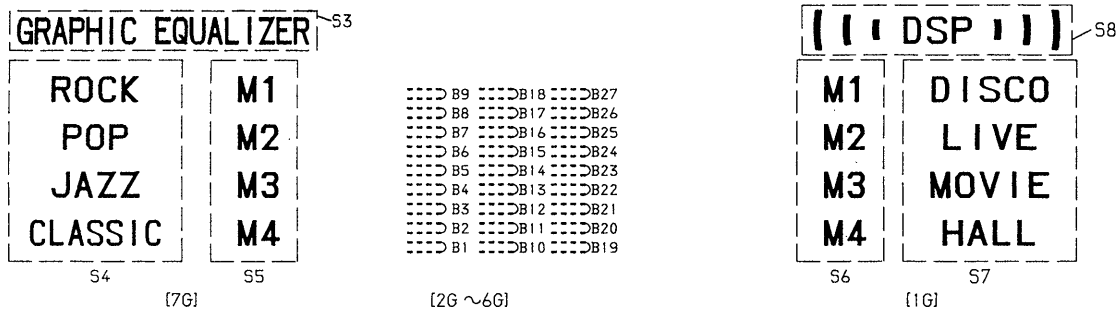
ANODE CONNECTION

	7G	6G	5G	4G	3G	2G	1G
P1	2d	2d	2d	2d	2d	n	**20**
P2	2j,2p	2j,2p	2j,2p	2j,2p	2j,2p	o	**19**
P3	2n	2n	2n	2n	2n	3e	**18**
P4	2r	2r	2r	2r	2r	3c	**17**
P5	2c	2c	2c	2c	2c	3a.3d.3g	**16**
P6	2e	2e	2e	2e	2e	3b	**15**
P7	2m	2m	2m	2m	2m	2e	**14**
P8	2g	2g	2g	2g	2g	2c	**13**
P9	2f	2f	2f	2f	2f	2a.2d.2g	**12**
P10	2b	2b	2b	2b	2b	S3	**11**
P11	2k	2k	2k	2k	2k	j	**10**
P12	2h	2h	2h	2h	2h	h	**9**
P13	2a	2a	2a	2a	2a	k	**8**
P14	**PM** (DOWN)	col2	[#]	S4	**OUT**	[BBE] B1	**7**
P15	**AM** (DOWN)	[b]	#	**AUTO**	**IN**	B2	**6**
P16	**SLEEP**	b	col1 (DOWN)	▷	((( )))	B3	**5**
P17	**REC**	∂p	col1 (UP)	◁	**MONO**	B4	**4**
P18	**PM** (UP)	1d	1d	1d	1d	2b	**3**
P19	**AM** (UP)	1h,1j	1h,1j	1j	—	1e	**2**
P20	—	1e	1e	1e	1e	1a. 1d.1g	**1**
P21	/	1c	1c	1c	1c	1c	**RANDOM**
P22	◴	1g	1g	1g	1g	1b	↻
P23	—	1f	1f	1f	1f	S2	—
P24	—	1b	1b	1b	1b	**AI**	—
P25	—	1a	1a	1a	1a	**EDIT**	—
P26	—	—	—	)	**mSec**	**PRGM**	—
P27	—	—	—	(	**MHz**	[T-BASS] B5	—
P28	—	—	—	[DOLBY] **NR**	**dB**	B6	—
P29	—	—	—	o	**KHz**	B7	—
P30	—	—	—	[REC]	**5**	B8	—
P31	—	—	—	↯	—	**T-BASS**	S1
P32	—	—	—	—	—	**BBE**	—

FL (BJ321GK) GRID ASSIGNMENT / ANODE CONNECTION

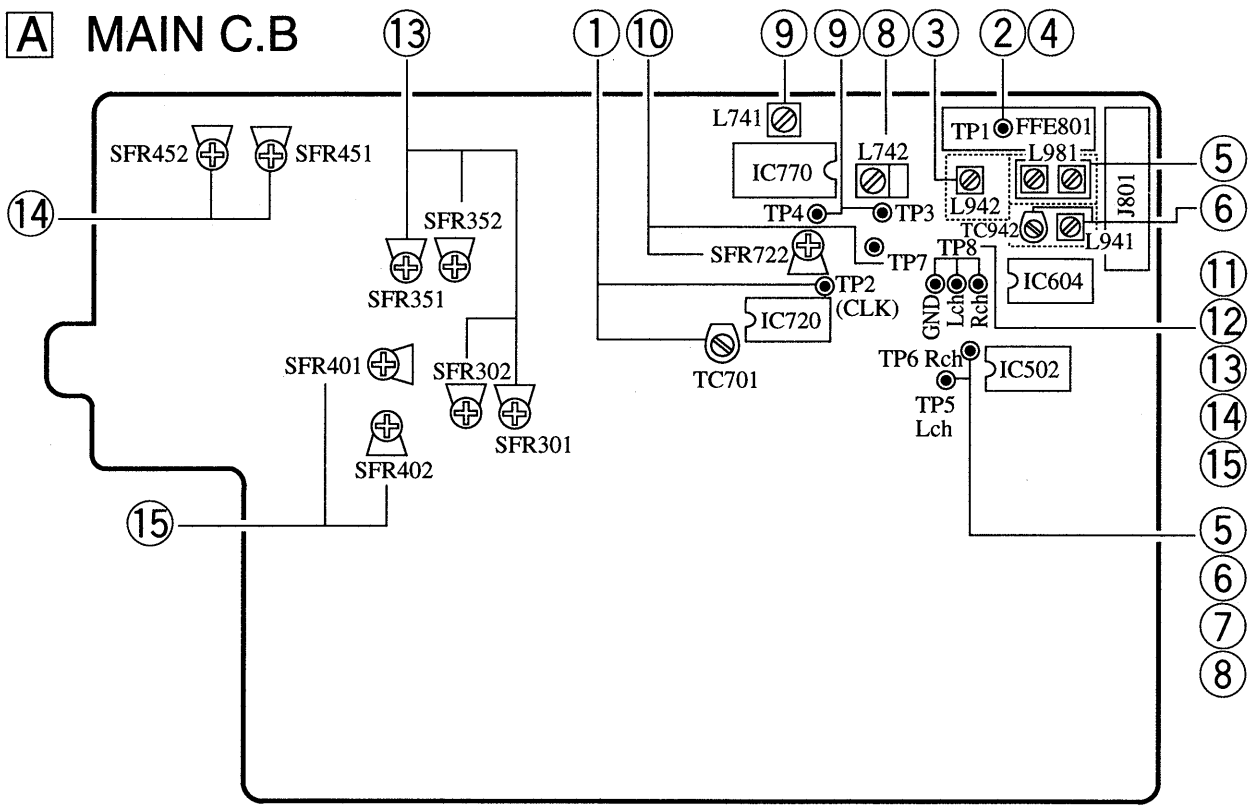
GRID ASSIGNMENT



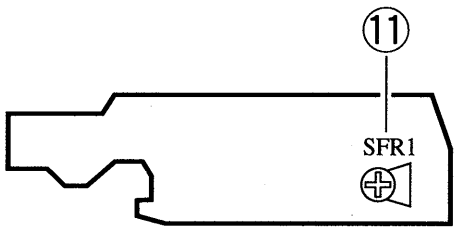


ANODE CONNECTION

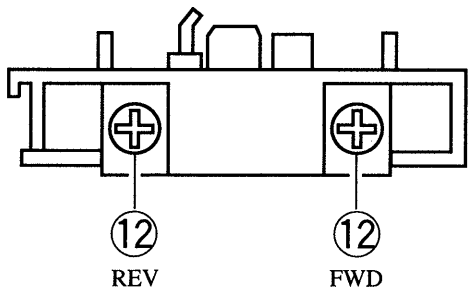
	7G	6G	5G	4G	3G	2G	1G
P1	—	—	**350**	—	**6K**	**Hz**	—
P2	—	**60**	—	**1K**	—	**15K**	—
P3	—	—	**150**	—	**2.5K**	—	—
P4	—	B19	B19	B19	B19	B19	—
P5	—	B10	B10	B10	B10	B10	—
P6	—	B1	B1	B1	B1	B1	—
P7	—	B20	B20	B20	B20	B20	—
P8	—	B11	B11	B11	B11	B11	—
P9	—	B2	B2	B2	B2	B2	—
P10	—	B21	B21	B21	B21	B21	—
P11	—	B12	B12	B12	B12	B12	—
P12	—	B3	B3	B3	B3	B3	—
P13	—	B22	B22	B22	B22	B22	—
P14	—	B13	B13	B13	B13	B13	—
P15	—	B4	B4	B4	B4	B4	—
P16	—	B23	B23	B23	B23	B23	—
P17	—	B14	B14	B14	B14	B14	—
P18	—	B5	B5	B5	B5	B5	—
P19	—	B24	B24	B24	B24	B24	—
P20	—	B15	B15	B15	B15	B15	—
P21	—	B6	B6	B6	B6	B6	—
P22	—	B25	B25	B25	B25	B25	—
P23	[M4]	B16	B16	B16	B16	B16	[HALL]
P24	[CLASSIC]	B7	B7	B7	B7	B7	[M4]
P25	[M3]	B26	B26	B26	B26	B26	[MOVIE]
P26	[JAZZ]	B17	B17	B17	B17	B17	[M3]
P27	[M2]	B8	B8	B8	B8	B8	[LIVE]
P28	[POP]	B27	B27	B27	B27	B27	[M2]
P29	[M1]	B18	B18	B18	B18	B18	[DISCO]
P30	[ROCK]	B9	B9	B9	B9	B9	[M1]
P31	S5	S1	—	—	—	S2	S7
P32	S4	—	—	—	—	—	S6
P33	S3	—	—	—	—	—	S8



H DECK 1 C.B
I DECK 2 C.B



DECK-1P, DECK-2R/P/E HEAD



< TUNER SECTION >

Initialized Condition
DOLBY NR SW: OFF
MIC VR: MIN
MAIN VR: MIN
AUX VR: MAX
ECHO VR: MIN
BBE SW: OFF

1. Clock Frequency Adjustment
   Settings: • Test point: TP2 (CLK)
   • Adjustment location: TC701
   Method: Set to AM (MW) 1602kHz and adjust TC701 so that the test point becomes 2052kHz±0.01kHz.

2. AM (MW) VT Check
   Settings: • Test point: TP1 (VT)
   Method: Set to AM (MW) 1602kHz and check that the test point becomes 6.8V±1.0V.

3. LW VT Adjustment
   Settings: • Test point: TP1 (VT)
   • Adjustment location: L942
   Method: Set to LW 144kHz and adjust L942 so that the test point becomes 1.5V±0.05V.

4. FM VT Check
   Settings: • Test point: TP1 (VT)
   Method: Set to FM 65.0MHz and check that the test point is more than 1.0V.
   Then set to FM 108MHz and check that the test point is less than 9.5V.

5. MW Tracking Adjustment
   Settings: • Test point: TP5, 6
   • Adjustment location: L981
   Method: Set to MW 999kHz and adjust so that the test point is less than 56dB (S/N 20dB).

6. LW Tracking Adjustment
   Settings: • Test point: TP5, 6
   L941 ..... 144kHz
   TC942 ..... 290kHz

7. FM Tracking Check point
   Settings: • Test point: TP5, TP6
   • Check that the test point is 98.0MHz.

8. AM IF Adjustment
   Settings: • Test point: TP5, TP6
   L742 ..... 450kHz

9. DC Balance/Mono Distortion Adjustment
   Settings: • Test point: TP3, TP4 (DC balance)
   TP5, TP6 (Distortion)
   • Adjustment location: L741
   • Input level: 54dB
   Method: Set to FM 98.0MHz and adjust L741 so that the voltage between TP3 and TP4 becomes 0V±0.04V.
   Next, check that the distortion is less than 1.3%.

10. FM Auto Stop Level Adjustment
    Settings: • Test point: TP7
    • Adjustment location: SFR722
    • Input level: 16dB
    Method: Set to FM 98.0MHz and adjust auto stop level to TP7 low voltage (0.01V) by SFR722. After that high voltage (7.0V) out by 2dB down.

< DECK SECTION >

11. Tape Speed Adjustment
    Settings: • Test tape: TTA-100 (DECK2)
    • Test point: TP8
    • Adjustment location: SFR1
    Method: Play back the test tape by DECK2 and adjust SFR1 so that the frequency counter reads 3000Hz±5Hz.

12. Azimuth Adjustment (DECK1, DECK2)
    Settings: • Test tape: TTA-310
    • Test point: TP8
    • Adjustment location: Head azimuth adjustment screw
    Method: Play back the 10kHz signal of the test tape and adjust screw so that the output becomes maximum.

13. PB Sensitivity Adjustment
    Settings: • Test tape: TTA-200
    • Test point: TP8
    • Input signal: 1kHz/10kHz (AUX-28dB)
    • Adjustment location:
    SFR301 (DECK1, Lch)
    SFR302 (DECK1, Rch)
    SFR351 (DECK2, Lch)
    SFR352 (DECK2, Rch)
    Method: Play back the test tape and adjust SFRs so that the output level of the test point becomes 315mV (DECK1), 300mV (DECK2).

14. REC/PB Frequency Response Adjustment
    Settings: • Test tape: TTA-602
    • Test point: TP8
    • Input signal: 1kHz/10kHz (VCR/AUX IN)
    • Adjustment location: SFR451 (Lch)
    SFR452 (Rch)
    Method: Establish the record mode. Adjust the TP8 signal to 210mV and attenuate to –20dB. Record and playback 1kHz and 10kHz. Adjust SFR so that level difference between 1kHz and 10kHz is 0dB±0.5dB.

15. REC/PB Sensitivity Adjustment (DECK2)
    Settings: • Test tape: TTA-602
    • Test point: TP8
    • Input signal: 1kHz/10kHz (VCR/AUX IN)
    • Adjustment location: SFR401 (Lch)
    SFR402 (Rch)
    Method: Apply a 1kHz signal and REC mode.
    Then adjust OSC attenuator so that the output level at the TP8 becomes 21mV. Record and play back the 1kHz signals and adjust SFRs so that the output is 21mV±0.5dB.

PRACTICAL SERVICE FIGURE

TUNER SECTION

<FM SECTION>

IHF Sensitiviy:	6dB±4dB
(THD 3%)	(87.5/98.0/108.0MHz)
S/N 50dB Quieting sensitivity:	Less than 40dB
	(87.5/98.0/108.0MHz)
Signal to noise ratio:	More than 64dB (98.0MHz)
Distortion:	Less than 1.2% (98.0MHz)
Stereo separation:	More than 25dB (98.0MHz)
Intermediate frequency:	10.7MHz

<MW (AM) SECTION>

Sensitivity:	54dB+8, –6dB (600/
	603kHz)
(S/N 20dB)	53±6dB (1000/999kHz)
	53±6dB (1400/1404kHz)
Distortion:	Less than 1.5%
	(1000/999kHz)
Stereo separation:	More than 12dB
	(1000/999kHz)
Intermediate frequency:	450kHz

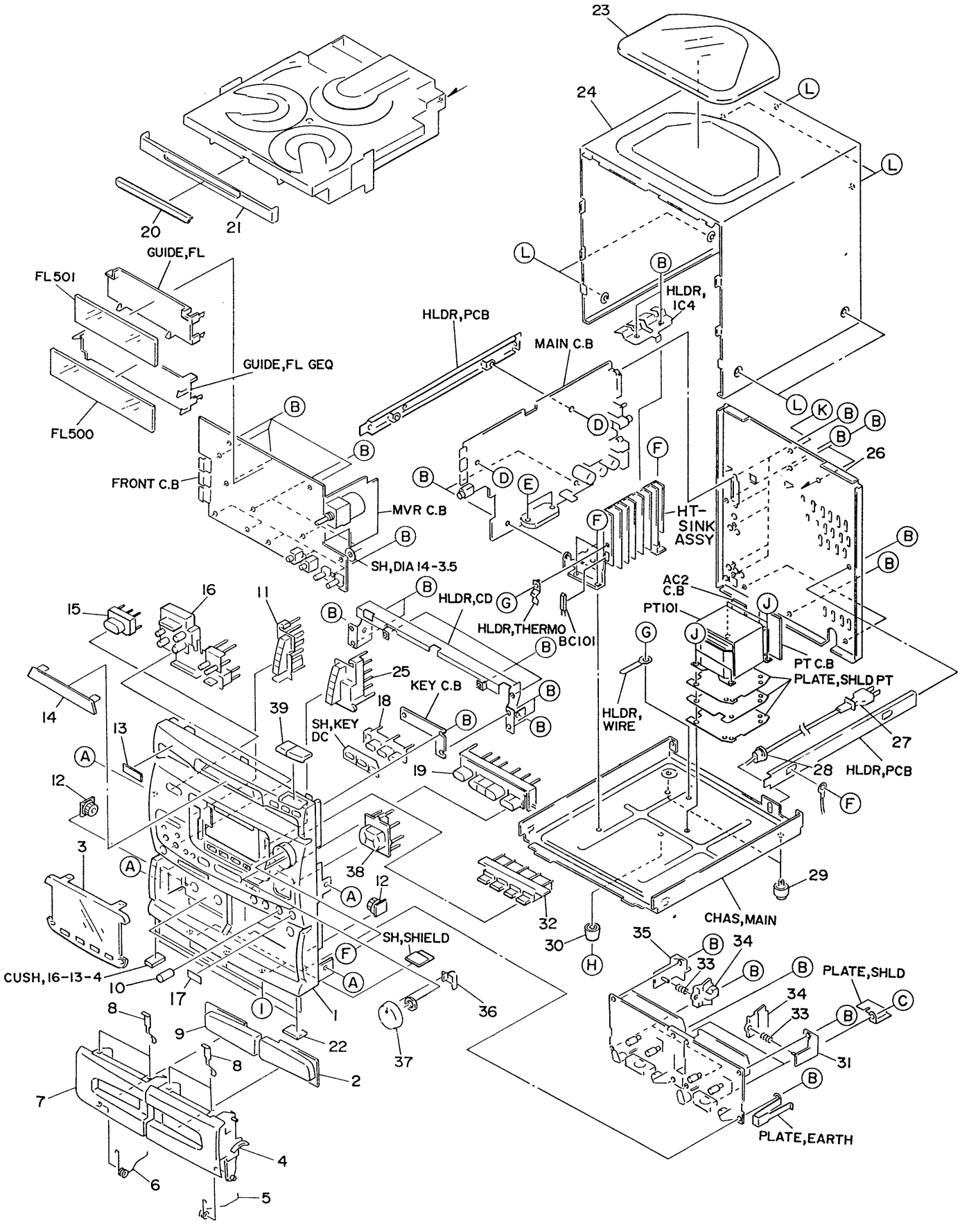
<LW SECTION>

Sensitivity:	66dB±5dB (144kHz)
(S/N 20dB)	63dB±5dB (198kHz)
	62dB±5dB (290kHz)
Distortion:	Less than 1.5% (198kHz)

DECK SECTION

Tape speed:	3000Hz±1.5%
Wow & flutter:	Less than 0.4%
(W.R.M.S)	
Take-up torque:	30~55g-cm (FWD, REV)
F.F torque:	75~180g-cm
Rew torque:	75~180g-cm
Back tension:	2~7.0g-cm
PB Output level:	(DECK1)
	1.4V+2.0dB, –1.0dB
	(SP OUT)
	(DECK2)
	2.8V±1.5dB (SP OUT)
REC/PB Output level:	3.0V± 2.0dB (SP OUT)
Distortion (REC/PB):	Less than 2%
	(NORM, CrO_2)
Noise level (REC/PB):	Less than 16mV/35mV
	(DOLBY B NR ON/OFF
	NORM, SP OUT, Vol 2V)
	Less than 13mV/23mV
	(DOLBY B NR ON/OFF
	CrO_2, SP OUT, Vol 2V)
Crosstalk:	More than 60dB
	(1kHz, 0VU)
Erasing ratio:	More than 60dB (125Hz)
Channel separation:	More than 40dB (1kHz, 0VU)
REC bias frequency:	85kHz
Test tape:	NORMAL TTA-601/600
	CrO_2 TTA-610

MECHANICAL EXPLODED VIEW 1 / 1

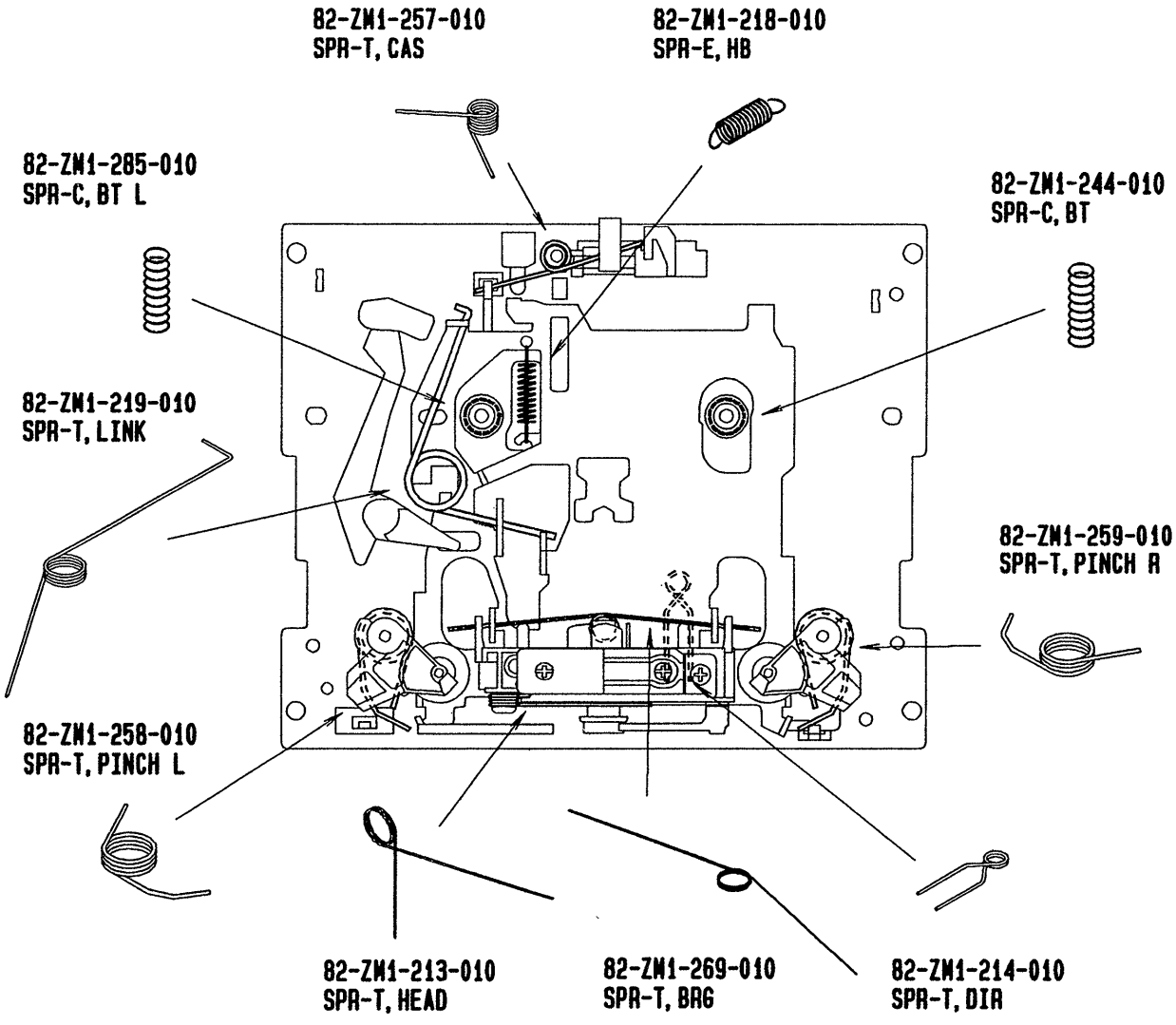


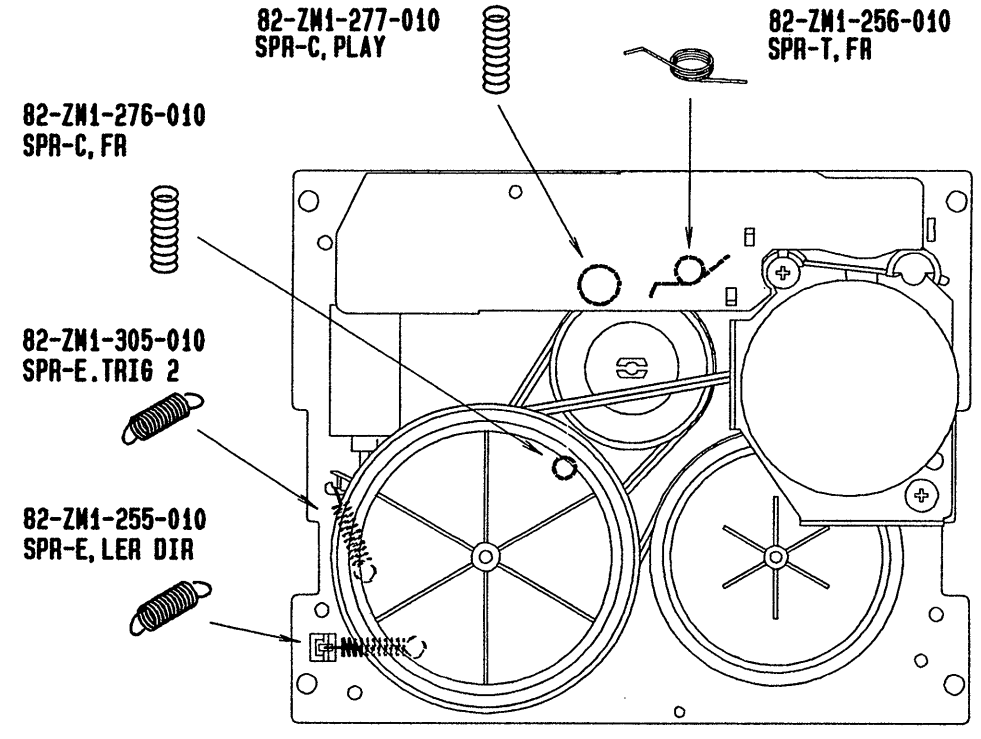
MECHANICAL PARTS LIST 1 ／ 1

DESCRIPTIONで判断できない物は “REFERENCE NAME LIST” を参照してください。
If can't understand for Description please kindly refer to “REFERENCE NAME LIST”.

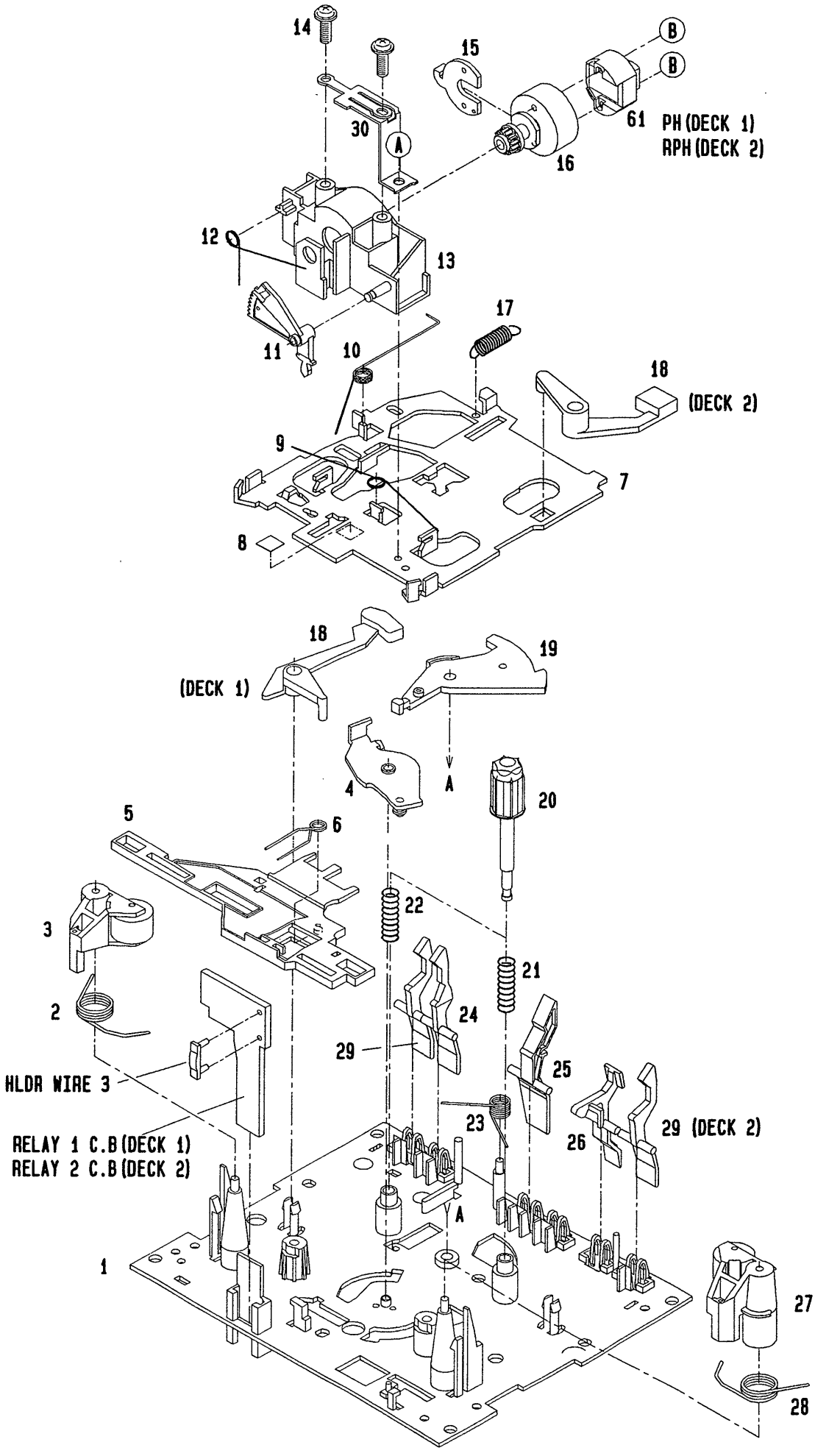
REF. NO	PART NO.	カンリ NO.	DESCRIPTION
1	84-NF6-001-010		CABI,FR E MK2
2	83-NF6-025-010		WINDOW,CASS 2
3	84-NF6-017-010		WINDOW,DISPLAY MK2
4	84-NF6-006-010		BOX,CASS 2 MK2
5	82-NF5-219-010		SPR-T,EJECT 2(SIN)
6	82-NF5-218-010		SPR-T,EJECT 1(SIN)
7	84-NF6-005-010		BOX,CASS 1 MK2
8	80-CD3-218-110		SPR-P CASS
9	83-NF6-024-010		WINDOW,CASS 1
10	84-NF6-018-010		KNOB,RTRY MIC MK2
11	84-NF6-010-010		KEY,GEQ MK2
12	87-063-165-010		OIL-DMPR,150
13	82-NE6-067-010		BADGE,AIWA 30N
14	83-NF6-021-010		WINDOW,CD
15	84-NF6-008-010		KEY,POWER MK2
16	84-NF6-014-010		KEY,T-BASS MK2
17	81-532-080-010		LBL,CASS-COMPT
18	83-NF6-013-210		KEY,DISC
19	84-NF6-012-010		KEY,PLAY MK2
20	84-NF6-016-010		WINDOW,DUMMY MK2
21	84-NF6-007-010		PANEL,TRAY MK2
22	80-VT1-202-010		FELT,12.5-15.5-2
23	83-NF5-021-010		WINDOW,TOP
24	83-NF6-002-110		CAB,STEEL
25	84-NF6-009-010		KEY,DSP MK2
26	84-NF6-029-010		PANEL,REAR VJBNM
⚠ 27	87-050-079-010		AC CORD ASSY,E BLK
28	87-085-185-010		BUSHING,AC CORD(E) CM-22B
29	87-085-213-010		FOOT, H 12.5
30	80-DW3-020-010		FOOT,H14.5
31	82-NF5-227-010		HLDR,LOCK 2N
32	83-NF6-014-010		KEY ASSY,FUN
33	82-NF5-228-010		SPR-C,LOCK
34	82-NF5-229-010		PLATE,LOCK
35	82-NF5-226-010		HLDR,LOCK 1N
36	83-NF5-010-010		IND,VOL
37	84-NF6-015-010		KNOB,RTRY VOL MK2
38	84-NF6-011-010		KEY,CURSOR MK2
39	84-NF6-013-010		KEY,OPEN MK2
A	87-591-094-410		QIT+3-6
B	87-067-703-010		BVT2+3-10 W/O SLOT
C	87-571-032-410		VIT+2-3
D	87-067-633-010		BVT2+3-8 W/O SLOT W/CONVEX
E	87-067-581-010		BVT2+3-15 W/O SLOT
F	87-067-579-010		BVT2+3-8 W/O SLOT
G	87-067-584-010		BVT2+3-6 W/O SLOT
H	87-067-758-010		BVT2+3-12 W/O SLOT
I	87-067-716-010		BVTT+3-6 BLK
J	87-078-083-010		BVTT+4-8 SWCH16A SEMS
L	87-078-165-010		UTT2+3-6 W/O SLOT BLK

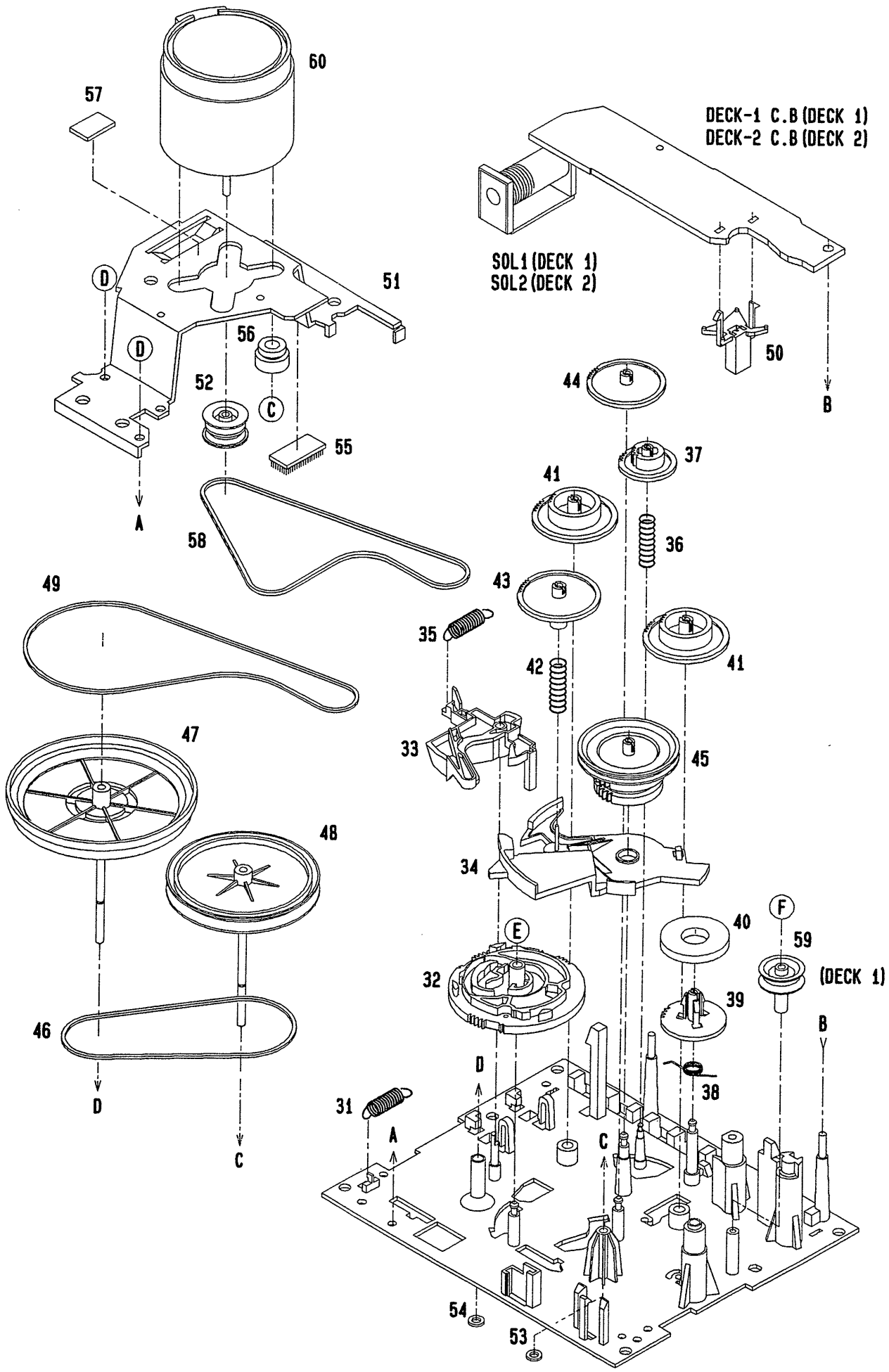
SPRING APPLICATION POSITION





TAPE MECHANISM EXPLODED VIEW 1 / 1




60
57
51
D
D
56
52
C
55
A
58
49
47
48
46
D
C
DECK-1 C.B (DECK 1)
DECK-2 C.B (DECK 2)
SOL1 (DECK 1)
SOL2 (DECK 2)
50
B
44
37
41
36
43
35
42
41
33
45
34
40
F
59
(DECK 1)
E
32
39
B
D
38
31
A
C
54
53

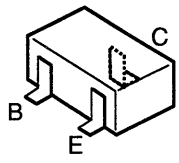
TAPE MECHANISM PARTS LIST 1 ／ 1

DESCRIPTIONで判断できない物は “REFERENCE NAME LIST” を参照してください。
If can't understand for Description please kindly refer to “REFERENCE NAME LIST”.

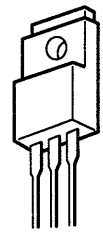
REF. NO	PART NO.	カンリ NO.	DESCRIPTION
1	82-ZM3-214-110		CHAS ASSY, P (DECK 1)
1	82-ZM1-299-010		CHAS ASSY, R (DECK 2)
2	82-ZM1-258-010		SPR-T, PINCH L
3	82-ZM1-248-110		LVR ASSY, PINCH L
4	82-ZM1-295-210		PLATE ASSY, LINK
5	82-ZM1-266-010		LVR, DIR
6	82-ZM1-214-010		SPR-T, DIR
7	82-ZM1-206-210		CHAS, HEAD
8	87-078-014-010		SH, 5-5-0.05
9	82-ZM1-269-010		SPR-T, BRG
10	82-ZM1-219-010		SPR-T, LINK
11	82-ZM1-210-010		GEAR, H T
12	82-ZM1-213-010		SPR-T, HEAD
13	82-ZM1-207-010		GUIDE, TAPE
14	82-ZM1-283-210		S-SCREW, AZIMUTH
15	82-ZM1-209-010		PLATE, HEAD
16	82-ZM1-208-010		HLDR, HEAD
17	82-ZM1-218-010		SPR-E, HB
18	82-ZM1-263-110		LVR, EJECT L (DECK 1)
18	82-ZM1-264-010		LVR, EJECT R (DECK 2)
19	82-ZM1-222-010		LVR, PLAY
20	82-ZM1-217-110		REEL TABLE
21	82-ZM1-244-110		SPR-C, BT
22	82-ZM1-285-110		SPR-C, BT L
23	82-ZM1-257-010		SPR-T, CAS
24	82-ZM1-241-110		LVR, MC
25	82-ZM1-242-010		LVR, CAS
26	82-ZM1-243-010		LVR, STOP
27	82-ZM1-253-110		LVR ASSY, PINCH R
28	82-ZM1-259-010		SPR-T, PINCH R
29	82-ZM1-240-110		LVR, REC (DECK 2)
30	82-ZM1-298-010		SPR-P, EARTH
31	82-ZM1-255-110		SPR-E, LVR DIR
32	82-ZM1-221-110		GEAR, CAM
33	82-ZM1-227-110		LVR, TRIG
34	82-ZM1-224-110		LVR, FR
35	82-ZM1-305-010		SPR-E, TRIG 2
36	82-ZM1-277-010		SPR-C, PLAY
37	82-ZM1-223-010		GEAR, PLAY
38	82-ZM1-256-110		SPR-T, FR
39	82-ZM1-220-210		GEAR, IDLER
40	80-ZM6-217-010		RING MAGNET 2
41	82-ZM1-216-210		GEAR, REEL
42	82-ZM1-276-010		SPR-C, FR
43	82-ZM1-225-010		GEAR, FR
44	82-ZM1-226-010		GEAR, REW
45	82-ZM1-228-210		SLIP DISK ASSY
46	82-ZM1-261-110		BELT, FR
47	82-ZM1-237-210		FLY-WHL ASSY, R (DECK 2)
47	82-ZM3-209-110		FLY-WHL ASSY, R2 (DECK 1)
48	82-ZM1-234-110		FLY-WHL ASSY, L (DECK 2)
48	82-ZM3-207-210		FLY-WHL ASSY, L2 (DECK 1)
49	82-ZM3-206-010		BELT, R
50	82-ZM1-245-210		HLDR, IC
51	82-ZM3-201-010		HLDR, MC
52	82-ZM3-202-010		PULLEY, MOT 2M
53	82-ZM1-288-010		SH, 1.63-3.2-0.5 SLT
54	80-ZM6-243-010		SH, 1.75-3.6-0.5 SLT
55	80-ZM6-230-010		SH, BELT
56	86-575-242-010		CUSH-G, DIA3.7-9-3.2
57	86-575-361-010		CUSH-G, 6-8-0.8
58	82-ZM3-205-010		BELT, L
59	82-ZM3-204-010		PULLEY, COUPLER (DECK 1)
60	87-045-347-010		MOT, SHU2L 70(M1)
61	87-046-355-010		HEAD, PH HADKH2529B(PH)
61	87-046-356-010		HEAD, RPH HADKH5581B(RPH)
A	87-585-036-410		UIT+2-8
B	80-ZM6-207-010		V+1.6-7
C	82-ZM1-309-010		S-SCRW, MOTOR
D	87-067-178-010		VTT+2.6-3
E	87-067-932-010		PW, 2.15-6.8-0.5 SLT
F	87-067-972-010		PW, 1.05-3-0.25 SLT

TRANSISTOR ILLUSTRATION

2SA935 2SC2240
2SA952 2SC3266
2SA1296 2SC3331
2SA1318 2SD655
2SC1815 KTC3198
2SC2001

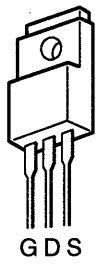


2SA1162 DTA144EK
2SC2712 DTA144WK
2SC2714 DTC114EK
2SC3326 DTC144EK
2SC3722 DTC144WK
DTA143EK



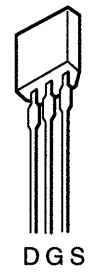
2SB1370

2SC1740
DTA114YS

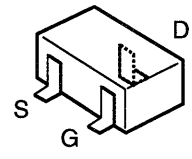


2SJ176
2SK1094

2SK246



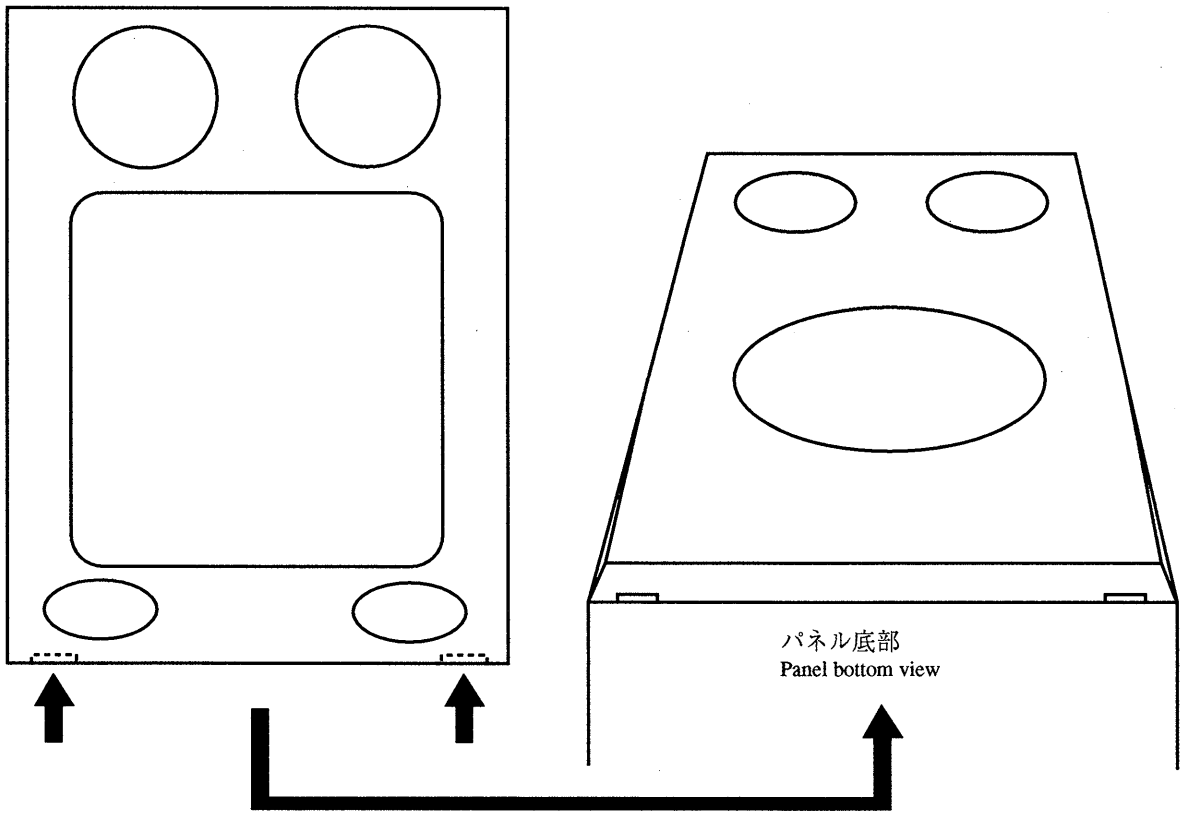
2SK365



2SK543

DISASSEMBLY INSTRUCTIONS

矢印の位置にマイナスドライバーを差し込んで、パネルをはずして、各々のスピーカー・ユニットのビスを取り、スピーカー・ユニットをはずしてください。
Insert a flat - bladed screwdriver into the position indicated by the arrows and remove the panel.
Remove the screws of each speaker unit and then remove the speaker units.



SPEAKER PARTS LIST 1 ／ 1

DESCRIPTIONで判断できない物は “REFERENCE NAME LIST” を参照してください。
If can’t understand for Description please kindly refer to “REFERENCE NAME LIST”.

REF. NO	PART NO.	カンリ NO.	DESCRIPTION
1	84-NS6-001-010		PANEL FR R
2	84-NS6-002-010		PANEL FR L
3	84-NS6-014-010		GRILL FRAME ASSY R
4	84-NS6-015-010		GRILL FRAME ASSY L
5	84-NS6-610-010		TERMINAL ASSY
6	84-NS6-019-010		RING TW ASSY R
7	84-NS6-020-010		RING TW ASSY L
8	84-NS6-602-010		SPEAKER WOOFER
9	84-NS6-604-010		SPEAKER TWEETER
10	84-NS6-007-010		HOLDER TW

REFERENCE NAME LIST

ELECTRICAL SECTION

DESCRIPTION	REFERENCE NAME
ANT	ANTENNAS
C-	CHIP
C-CAP	CAP, CHIP
C-CAP TN	CAP, CHIP TANTALUM
C-COIL	COIL, CHIP
C-DI	DIODE, CHIP
C-DIODE	DIODE, CHIP
C-FET	FET, CHIP
C-FOTR	FILTER, CHIP
C-JACK	JACK, CHIP
C-LED	LED, CHIP
C-RES	RES, CHIP
C-SFR	SFR, CHIP
C-SLIDE SW	SLIDE SWITCH, CHIP
C-SW	SWITCH, CHIP
C-TR	TRANSISTOR, CHIP
C-VR	VOLUME, CHIP
C-ZENER	ZENER, CHIP
CAP, CER	CAP, CERA-SOL
CAP, E	CAP, ELECT
CAP, M/F	CAP, FILM
CAP, TC	CAP, CERA-SOL
CAP, TC-U	CAP, CERA-SOL SS
CAP, TN	CAP, TANTALUM
CERA FIL	FILTER, CERAMIC
CF	FILTER, CERAMIC
DL	DELAY LINE
E/CAP	CAP, ELECT
FILT	FILTER
FLTR	FILTER
FUSE RES	RES, FUSE
MOT	MOTOR
P-DIODE	PHOTO DIODE
P-SNSR	PHOTO SENSER
P-TR	PHOTO TRANSISTOR
POLY VARI	VARIABLE CAPACITOR
PPCAP	CAP, PP
PT	POWER TRANSFORMER
PTR, RES	PTR, MELF
RC	REMOTE CONTROLLER
RES NF	RES, NON-FLAMMABLE
RESO	RESONATOR
SHLD	SHIELD
SOL	SOLENOID
SPKR	SPEAKER
SW, LVR	SWITCH, LEVER
SW, RTRY	SWITCH, ROTARY
SW, SL	SWITCH, SLIDE
TC CAP	CAP, CERA-SOL
THMS	THERMISTOR
TR	TRANSISTOR
TRIMMER	CAP, TRIMMER
TUN-CAP	VARIABLE CAPACITOR
VIB, CER	RESONATOR, CERAMIC
VIB, XTAL	RESONATOR, CRYSTAL
VR	VOLUME
ZENER	DIODE, ZENER
サージサプレッサ	SERGESUPPRESSOR
セラコン	CAP,CERA

MECHANICAL SECTION

DESCRIPTION	REFERENCE NAME
ADHESHIVE	SHEET ADHESHIVE
AZ	AZIMUTH
BAR-ANT	BAR-ANTENNA
BAT	BATTERY
BATT	BATTERY
BRG	BEARING
BTN	BUTTON
CAB	CABINET
CASS	CASSETTE
CHAS	CHASSIS
CLR	COLLAR
CONT	CONTROL
CRSR	CURSOR
CU	CUSHION
CUSH	CUSHION
DIR	DIRECTION
DUBB	DUBBING
FL	FRONT LOADING
FLY-WHL	FLYWHEEL
FR	FRONT
FUN	FUNCTION
G-CU	G-CUSHION
HDL	HANDOL
HIMERON	CLOTH
HINGE, BAT	HINGE, BATTERY
HLDR	HOLDER
HT-SINK	HEAT SINK
IB	INSTRUCTION BOOKLET
IDLE	IDLER
IND, L-R	INDICATOR, L-R
KEY, CONT	KEY, CONTROL
KEY, PRGM	KEY, PROGRAM
KNOB, SL	KNOB, SLIDE
LBL	LABEL
LID, BATT	LID, BATTERY
LID, CASS	LID, CASSETTE
LVR	LEVER
P-SP	P-SPRING
PANEL, CONT	PANEL, CONTROL
PANEL, FR	PANEL, FRONT
PRGM	PROGRAM
PULLY, LOAD MO	PULLY, LOAD MOTOR
RBN	RIBBON
S-	SPECIAL
SEG	SEGMENT
SH	SHEET
SHLD-SH	SHIELD-SHEET
SL	SLIDE
SP	SPRING
SP-SCREW	SPECIAL-SCREW
SPACER, BAT	SPACER, BATTERY
SPR	SPRING
SPR-P	P-SPRING
SPR-PC-PUSH	P-SPRING, C-PUSH
T-SP	T-SPRING
TERM	TERMINAL
TRIG	TRIGGER
TUN	TUNING
VOL	VOLUME
W	WASHER
WHL	WHEEL
WORM-WHL	WORM-WHEEL
ジグアーム	ARM,SHAFT
ジグガイド	GUIDE,SHAFT
ストラップ	STRAP
トクナベ	S-SCREW
ヒンジ	HINGE
ヒンジビス	S-SCREW
ビスセレート	SCREW,SERRART

サービス技術ニュース	
番 号	連絡内容
G－　－	
G－　－	
G－　－	

アイワ株式会社
AIWA CO.,LTD.

737004, 750038

Tokyo Japan

〒110 東京都台東区池之端１－２－11　☎ 03 (3827) 3111 （代表）

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