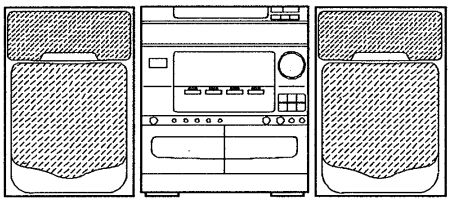
aiwa

aiwa SERVICE

NSX-V31G
CX-NV31G

SERVICE MANUAL



COMPACT DISC STEREO
CASSETTE SYSTEM

- BASIC TAPE MECHANISM: 2ZM-3 PR7
- BASIC CD MECHANISM: 4ZG-1GFR
- TYPE. HE,HR,HK(NSX-V31G) EEZ(CX-NV31G)

SYSTEM	CENTER UNIT	REMOTE CONTROLLER	SPEAKER
NSX-V31G	CX-NV31G	RC-T503	SX-FNV50
———	CX-NV31G	RC-T503	SX-FNV50

- If requiring information about the CD mechanism, see Service Manual of 4ZG-1. (S/M Code No. 09-949-070-40T)

S/M Code No. 09-959-117-50T

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SPECIFICATIONS

TUNER / AMPLIFIER

<FM section>

Frequency range	87.5 MHz to 108 MHz
Usable sensitivity (IHF)	16.2 dBf (75 ohms,1.8μV)
Antenna	75 ohms (unbalanced)

<MW section>

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

<SW section> (HE,HR,HK)

Frequency range	5.95 MHz to 17.90 MHz (1 kHz step)
Antenna	Wire antenna

<LW section> (EEZ)

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

<Amplifier section>

Power output (Without connecting to the SURROUND SPEAKERS)	HR : Rated 22 W + 22 W (6 ohms, T.H.D. 1%, 1kHz) Reference 30 W + 30 W (6 ohms, T.H.D. 10%, 1kHz) HE,HK : 30 W + 30 W (6 ohms, T.H.D. 10%, 1kHz) EEZ: Rated 20 W + 20 W (6 ohms, T.H.D. 1%, 1kHz/DIN 45500) Reference 24 W + 24 W (6 ohms, T.H.D. 10%, 10kHz/DIN 45324) DIN MUSIC POWER 45 W + 45 W
Harmonic distortion	HE,HR,HK : 0.1% (15W,1kHz, 6 ohms) EEZ : 0.1% (10W,1kHz, 6 ohms)
Input	HE,HR,HK : VIDEO/AUX : 400mV (21 kohms) MIC 1,MIC 2 : 1mV(10 kohms) EEZ : VIDEO/AUX : 150mV (adjustable) MIC 1,MIC 2 : 1.7mV(10 kohms)
Output	VIDEO OUT: 1.0Vp-p(75 ohms) SUPER WOOFER : 1.3V(HE,HR,HK) : 1.1V(EEZ) SPEAKERS : accepts speakers of 6 ohms or more SURROUND SPEAKERS : accepts speakers of 16 ohms or more PHONES (stereo minijack) : accepts headphones of 32 ohms or more

<Cassette deck section>

Track format	4 tracks, 2 channels stereo
Frequency response	CrO_2 tape : 50 – 16000 Hz Normal tape : 50 – 15000 Hz
Signal-to-noise ratio	HE,HR,HK : 48 dB (CrO2 tape) EEZ : 60 dB (DOLBY B NR ON, CRO2 tape peak level above 5kHz)
Recording system	AC bias
Heads	DECK 1 : Playback head x 1 DECK 2 : Recording / playback / erasure head x 1

<CD player section>

Laser	Semiconductor laser (λ =780 nm)
D-A conversion	1-bit dual
Wow and flutter	Unmeasurable
Signal-to-noise ratio	85 dB (1 kHz, 0dB)
Harmonic distortion	0.03% (1 kHz, 0dB)
Video signal	NTSC/PAL color format

<Speaker system> SX-FNV50

Cabinet type	3 way, bass reflex (magnetic sealed type)
Speaker	Woofer : 140 mm (5 5/8 in.) cone type Tweeter : 80mm (3 1/4in.) cone type Super tweeter : 50mm (2 in.) ceramic type Surround speaker : 80mm (3 1/4 in.)
Impedance	Front speaker : 6 ohms Surround speaker : 16 ohms
Output sound pressure level	87 dB/W/m
Dimensions (W x H x D)	206 x 302 x 265 mm (8 1/8 x 12 x 10 1/2 in.)
Weight	3.6 kg (7 lbs. 15oz)

<General>

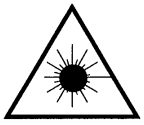
Power requirements	HE,HR,HK : AC 120V/ 220V-240V, switchable 50/60 Hz EEZ : AC 230 V, 50 Hz
Power consumption	HE,HR,HK : 90 W EEZ : EEZ :140 W U : 125 W
Dimensions (W x H x D)	260 x 308 x 339 mm (10 1/4 x 12 1/4 x 13 3/8 in.)
Weight	6.5 kg (14 lbs. 5 oz)

- Design and specifications are subject to change without notice.
- Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation.
  "DOLBY" and the double-D symbol ⧈ are trademarks of Dolby Laboratories Licensing Corporation.

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 exposure to beam.
- Advarsel: Usynlig laserståling ved åbning, når sikkerhedsafbrydere er ude af funktion. Undgå udsættelse for stråling.

VAROITUS!
Laiteen Käyttäminen muulla kuin tässä käyttöohjeessa mainitulla tavalla saattaa altistaa käyt-täjän turvallisuusluokan 1 ylittävälle 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 radiation 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.

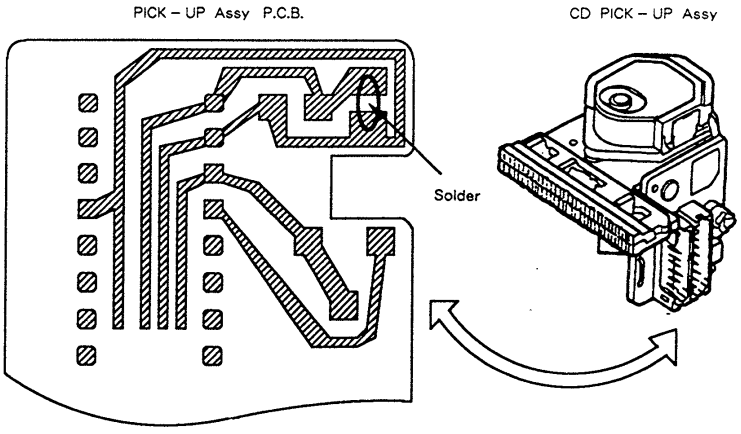
This Compact Disc player is classified as a CLASS 1 LASER product.
The CLASS 1 LASER PRODUCT label is located on the rear exterior.

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.



ELECTRICAL MAIN PARTS 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
IC			
	87-020-454-010		IC,DN 6851
	85-NFH-606-010		IC,UPD78044BGF-017
	87-070-343-010		IC,SPS-440-1
	87-070-163-019		IC,STK405-030<EEZ>
	87-070-267-010		IC,STK405-050<HE,HR,HK>
	87-070-121-010		IC,HA12185NT
	87-017-374-010		IC,TC4094BP
	87-001-874-019		IC,HA12134A<EEZ>
	87-070-277-010		IC,BA3839
	87-017-675-080		IC,M65840FP
	87-002-727-010		IC,NJM4558L
	87-070-272-010		IC,TA2078P
	87-027-666-010		IC,TC4052BP
	87-070-184-040		IC,M65846FP-600D
	87-070-127-010		IC,LC72131
	87-017-714-010		IC,LA1836
TRANSISTOR			
	87-026-463-080		TR,2SA933S
	89-213-702-010		TR,2SB1370E
	89-113-187-080		TR,2SA1318TU
	89-213-702-019		TR,2SB1370E
	87-026-610-089		TR,KTC3198GR
	89-332-665-080		TR,2SC3266GR
	87-026-609-089		TR,KTA1266GR
	87-026-462-080		TR,2SC1740S(RS)
	89-406-555-080		TR,2SD655E
	87-026-286-080		TR,DTA143ES
	89-502-466-080		FET 2SK246BL
	89-333-317-080		TR,2SC3331 T
	87-026-462-089		TR,2SC1740S (RS)
	89-109-521-080		TR,2SA952K
	89-112-965-080		TR,2SA1296GR
	87-026-293-080		TR,DTC144WS
	87-026-219-080		TR,DTA144ES
	89-328-785-080		TR,2SC2878(A)TPE2
	87-026-214-080		TR,DTA114YS
	89-319-233-080		TR,2SC1923(O)
	89-327-143-080		TR,2SC2714(O)
	87-026-269-089		TR,DTA114ES
	89-503-602-080		C-FET,2SK360E
	89-503-602-089		C-FET,2SK360E<EEZ>
	87-026-214-089		TR,DTA114YS<HE,HR,HK>
	87-026-463-089		TR,2SA933S (RS)<HE,HR,HK>
	89-406-555-089		TR,2SD655E
	89-505-446-080		FET,2SK544 F
DIODE			
	87-020-465-080		DIODE,1SS133
	87-001-916-080		ZENER,UTZJ10B
	87-001-909-080		ZENER,UTZJ 24B
	87-002-225-010		DIODE,DBF 40C-K10
	87-001-914-080		ZENER,UTZJ6.2B
	87-001-911-080		ZENER,UTZJ 4.7A
	87-001-559-080		DIODE,1SS131
	87-001-912-080		ZENER,UTZJ 5.1B
	87-001-913-080		ZENER,UTZJ5.6B
	87-027-393-080		ZENER,HZ4C-2
	87-020-339-080		C-DIODE,1SS226<EEZ>
	87-020-465-089		DIODE,1SS133
MAIN C.B			
BPF831	87-030-105-010		FLTR,BPMB6A<EEZ>
C102	87-010-399-090		CAP,E 3300-35 SME
C103	87-010-398-090		CAP,E 2200-35 SME
C104	87-010-381-080		CAP,E 330-16 SME
C105	87-010-101-080		CAP,E 220-16 SME
C109	87-010-401-080		CAP,E 1-50 SME
C112	87-010-405-080		CAP,E 10-50 SME
C113	87-010-403-080		CAP,E 3.3-50 SME
C116	87-018-127-080		CAP,TC-U 470P-50 B
C200	87-018-208-089		CAP,TC-U 0.047-25 F
C201	87-010-404-080		CAP,E 4.7-50 SME
C202	87-010-404-080		CAP,E 4.7-50 SME
C203	87-018-129-089		CAP,TC-U 680P-50 SL
C204	87-018-129-089		CAP,TC-U 680P-50 SL
C205	87-010-544-040		CAP,E 0.1-50 SME
C206	87-010-544-040		CAP,E 0.1-50 SME
C207	87-010-402-080		CAP,E 2.2-50 SME
C208	87-010-402-080		CAP,E 2.2-50 SME
C209	87-010-405-080		CAP,E 10-50 SME
C210	87-010-405-080		CAP,E 10-50 SME
C213	87-018-100-089		CAP,TC-U 4.7P-50 SL
C214	87-018-100-089		CAP,TC-U 4.7P-50 SL
C221	87-010-197-089		C-CAP,S 0.01-25 B<EEZ>
C222	87-010-197-089		C-CAP,S 0.01-25 B<EEZ>
C225	87-018-205-080		CAP,TC-U 0.022-25 F
C230	87-010-247-080		CAP,E 100-50 SME
C231	87-018-205-080		CAP,TC-U 0.022-25 F
C251	87-010-177-080		C-CAP,S 820P-50 SL
C252	87-010-177-080		C-CAP,S 820P-50 SL
C301	87-010-392-080		CAP,E 33-35 SME
C302	87-010-392-080		CAP,E 33-35 SME
C303	87-012-145-080		C-CAP,S 270P-50 CH
C304	87-012-145-080		C-CAP,S 270P-50 CH
C305	87-012-155-080		C-CAP,S 180P-50 CH
C306	87-012-155-080		C-CAP,S 180P-50 CH
C307	87-010-401-080		CAP,E 1-50 SME
C308	87-010-401-080		CAP,E 1-50 SME
C313	87-010-180-080		C-CAP,S 1500P-50 B<HE,HR,HK>
C313	87-010-181-089		C-CAP,S 1800P-50 B<EEZ>
C314	87-010-180-080		C-CAP,S 1500P-50 B<HE,HR,HK>
C314	87-010-181-089		C-CAP,S 1800P-50 B<EEZ>
C315	87-010-179-080		C-CAP,S 1200P-50 B
C316	87-010-179-080		C-CAP,S 1200P-50 B
C317	87-010-401-080		CAP,E 1-50 SME
C318	87-010-401-080		CAP,E 1-50 SME
C319	87-010-400-089		CAP,E 0.47-50 SME<EEZ>
C320	87-010-400-089		CAP,E 0.47-50 SME<EEZ>
C321	87-010-544-089		CAP,E 0.1-50<EEZ>
C321	87-010-401-080		CAP,E 1-50 SME<HE,HR,HK>
C322	87-010-544-089		CAP,E 0.1-50<EEZ>
C322	87-010-401-080		CAP,E 1-50 SME<HE,HR,HK>
C325	87-010-546-080		CAP,E 0.33-50 SME<HE,HR,HK>
C326	87-010-546-080		CAP,E 0.33-50 SME<HE,HR,HK>
C350	87-010-197-080		C-CAP,S 0.01-25 B
C351	87-012-154-080		C-CAP,S 150P-50 CH
C352	87-012-154-080		C-CAP,S 150P-50 CH
C360	87-010-196-089		C-CAP,S 0.1-25 F<EEZ>
C360	87-018-209-080		CAP,TC-U 0.1-50 F<HE,HR,HK>
C381	87-010-189-080		C-CAP,S 8200P-50 B<HE,HR,HK>
C382	87-010-189-080		C-CAP,S 8200P-50 B
C451	87-018-123-080		CAP,TC-U 220P-50 B
C452	87-018-123-080		CAP,TC-U 220P-50 B
C453	87-010-178-080		C-CAP,S 1000P-50 B
C454	87-010-178-080		C-CAP,S 1000P-50 B
C456	87-010-405-080		CAP,E 10-50 SME
C457	87-010-198-080		C-CAP,S 0.022-25 B
C459	87-010-178-080		C-CAP,S 1000P-50 B
C461	87-010-183-080		C-CAP,S 2700P-50 B
C462	87-010-183-080		C-CAP,S 2700P-50 B
C463	87-010-183-080		C-CAP,S 2700P-50 B
C501	87-010-177-089		C-CAP,S 820P-50 SL<EEZ>
C502	87-010-177-089		C-CAP,S 820P-50 SL<EEZ>
C503	87-010-401-089		CAP,E 1-50 SME<EEZ>

REF. NO	PART NO.	カンリ NO.	DESCRIPTION
C505	87-010-545-089		CAP,E 0.22-50 SME<EEZ>
C506	87-010-545-089		CAP,E 0.22-50 SME<EEZ>
C507	87-010-196-089		C-CAP,S 0.1-25 F<EEZ>
C516	87-010-400-089		CAP,E 0.47-50 SME<EEZ>
C519	87-010-405-080		CAP,E 10-50 SME
C521	87-018-199-089		CAP,TC-U 3300P-16 X<EEZ>
C522	87-010-312-080		C-CAP,S 15P-50 CH
C523	87-010-197-080		C-CAP,S 0.01-25 B
C524	87-010-402-080		CAP,E 2.2-50 SME
C525	87-018-134-080		CAP,TC-U 0.01-16 Y
C526	87-010-371-080		CAP,E 470-6.3
C528	87-012-142-080		C-CAP,S 0.33-16 F
C529	87-010-401-080		CAP,E 1-50 SME
C530	87-010-401-080		CAP,E 1-50 SME
C531	87-010-545-080		CAP,E 0.22-50 SME
C532	87-010-263-080		CAP,E 100-10
C535	87-010-400-080		CAP,E 0.47-50 SME
C536	87-010-400-080		CAP,E 0.47-50 SME
C538	87-010-198-080		C-CAP,S 0.022-25 B
C539	87-010-382-080		CAP,E 22-25 SME
C540	87-010-183-080		C-CAP,S 2700P-50 B
C541	87-010-197-080		C-CAP,S 0.01-25 B<HE,HR,HK>
C541	87-010-213-089		C-CAP,S 0.015-50 B<EEZ>
C542	87-010-197-080		C-CAP,S 0.01-25 B<HE,HR,HK>
C542	87-010-213-089		C-CAP,S 0.015-50 B<EEZ>
C543	87-010-178-080		C-CAP,S 1000P-50 B
C544	87-010-178-080		C-CAP,S 1000P-50 B
C545	87-010-198-080		C-CAP,S 0.022-25 B
C547	87-010-546-080		CAP,E 0.33-50 SME
C548	87-010-546-080		CAP,E 0.33-50 SME
C560	87-010-401-080		CAP,E 1-50 SME
C561	87-010-178-080		C-CAP,S 1000P-50 B
C562	87-010-178-080		C-CAP,S 1000P-50 B
C563	87-010-186-080		C-CAP,S 4700P-50 B
C564	87-010-185-080		C-CAP,S 3900P-50 B
C565	87-010-196-080		C-CAP,S 0.1-25 F
C569	87-010-177-080		C-CAP,S 820P-50 SL
C570	87-010-178-080		C-CAP,S 1000P-50 B
C571	87-010-175-080		C-CAP,S 560P-50 SL
C572	87-010-176-080		C-CAP,S 680P-50 SL
C576	87-010-317-080		C-CAP,S 39P-50 CH
C577	87-010-317-080		C-CAP,S 39P-50 CH<EEZ>
C577	87-010-320-089		C-CAP,S 68P<HE,HR,HK>
C578	87-010-374-080		CAP,E 47-10
C579	87-010-196-080		C-CAP,S 0.1-25 F
C580	87-010-263-080		CAP,E 100-10
C581	87-010-184-080		C-CAP,S 3300P-50 B
C590	87-018-134-080		CAP,TC-U 0.01-16 Y<HE,HR,HK>
C601	87-018-205-080		CAP,TC-U 0.022-25 F
C621	87-010-081-080		C-CAP,S 1800P-50 B
C622	87-010-081-080		C-CAP,S 1800P-50 B
C701	87-010-404-080		CAP,E 4.7-50 SME
C702	87-010-197-080		C-CAP,S 0.01-25 B
C703	87-010-197-080		C-CAP,S 0.01-25 B
C704	87-018-131-080		CAP,TC-U 1000P-50 B
C705	87-010-374-080		CAP,E 47-10
C711	87-010-263-080		CAP,E 100-10
C712	87-010-112-080		CAP,E 100-16
C722	87-010-152-080		C-CAP,S 8P-50 CH
C723	87-010-178-080		C-CAP,S 1000P-50 B
C725	87-010-178-080		C-CAP,S 1000P-50 B
C727	87-010-197-080		C-CAP,S 0.01-25 B
C728	87-010-248-080		CAP,E 220-10 SME
C729	87-015-819-080		C-CAP,0.01-50 B K
C771	87-010-405-080		CAP,E 10-50 SME
C772	87-010-194-080		C-CAP,S 0.047-25 F
C773	87-010-196-080		C-CAP,S 0.1-25 F
C774	87-010-263-080		CAP,E 100-10
C775	87-010-405-080		CAP,E 10-50 SME
C776	87-018-134-080		CAP,TC-U 0.01-16 Y
C777	87-010-400-080		CAP,E 0.47-50 SME
C778	87-010-401-080		CAP,E 1-50 SME
C779	87-010-401-080		CAP,E 1-50 SME
C780	87-010-197-080		C-CAP,S 0.01-25 B
C781	87-010-401-089		CAP,E 1-50 SME<EEZ>
C782	87-010-401-089		CAP,E 1-50 SME<EEZ>
C787	87-010-184-089		C-CAP,S 3300P-50 B<EEZ>
C788	87-010-184-089		C-CAP,S 3300P-50 B<EEZ>
C789	87-012-365-080		C-CAP,S 0.027-25V BK<HE,HR,HK>
C789	87-010-179-089		C-CAP,S 1200P-50 B<EEZ>
C790	87-012-365-080		C-CAP,S 0.027-25V BK<HE,HR,HK>
C790	87-010-179-089		C-CAP,S 1200P-50 B<EEZ>
C791	87-010-401-080		CAP,E 1-50 SME
C792	87-010-180-080		C-CAP,S 1500P-50 B<HE,HR,HK>
C792	87-010-182-089		C-CAP,S 2200P-50 B<EEZ>
C793	87-010-189-080		C-CAP,S 8200P-50 B
C794	87-010-260-080		CAP,E 47-25 SME
C795	87-010-194-080		C-CAP,S 0.047-25 F
C796	87-010-403-080		CAP,E 3.3-50 SME
C797	87-010-197-080		C-CAP,S 0.01-25 B
C799	87-010-405-080		CAP,E 10-50 SME<HE,HR,HK>
C801	87-018-134-080		CAP,TC-U 0.01-16 Y
C802	87-010-311-089		C-CAP,S 12P-50 CH<HE,HR,HK>
C802	87-010-312-089		C-CAP,S 15P-50 CH<EEZ>
C804	87-010-151-080		C-CAP,S 7P-50 CH<HE,HR,HK>
C805	87-010-146-089		C-CAP,S 2P-50 CH<EEZ>
C805	87-010-150-080		C-CAP,S 6P-50 CH<HE,HR,HK>
C806	87-010-145-080		C-CAP,S 1P-50 CH<HE,HR,HK>
C806	87-010-146-089		C-CAP,S 2P-50 CH<EEZ>
C807	87-010-154-080		C-CAP,S 10P-50 CH
C808	87-010-322-080		C-CAP,S 100P-50 CH
C809	87-010-197-080		C-CAP,S 0.01-25 B
C810	87-010-197-080		C-CAP,S 0.01-25 B
C811	87-010-149-080		C-CAP,S 5P-50 CH
C812	87-010-314-089		C-CAP,S 22P-50 CH
C813	87-010-197-080		C-CAP,S 0.01-25 B
C814	87-010-197-080		C-CAP,S 0.01-25 B
C815	87-010-197-080		C-CAP,S 0.01-25 B<HE,HR,HK>
C817	87-015-785-080		C-CAP,0.1-25 F
C819	87-015-785-080		C-CAP,0.1-25 F
C820	87-010-260-080		CAP,E 47-25 SME
C821	87-010-197-080		C-CAP,S 0.01-25 B
C823	87-010-197-080		C-CAP,S 0.01-25 B
C825	87-018-134-080		CAP,TC-U 0.01-16 Y<HE,HR,HK>
C827	87-010-145-089		C-CAP,S 1P-50 CH<EEZ>
C831	87-010-312-089		C-CAP,S 15P-50 CH
C832	87-010-314-089		C-CAP,S 22P-50 CH<EEZ>
C833	87-015-819-080		C-CAP,0.01-50 B K
C834	87-010-311-080		C-CAP,S 12P-50 CH<EEZ>
C835	87-010-154-089		C-CAP,S 10P-50 CH
C836	87-010-312-089		C-CAP,S 15P-50 CH
C837	87-010-312-089		C-CAP,S 15P-50 CH
C843	87-010-146-080		C-CAP,S 2P-50 CH
C849	87-010-197-080		C-CAP,S 0.01-25 B
C851	87-010-197-089		C-CAP,S 0.01-25 B<EEZ>
C901	87-010-197-089		C-CAP,S 0.01-25 B
C905	87-010-405-080		CAP,E 10-50 SME<HE,HR,HK>
C941	87-010-313-080		C-CAP,S 18P-50 CH<HE,HR,HK>
C942	87-010-154-089		C-CAP,S 10P-50 CH<EEZ>
C943	87-010-197-089		C-CAP,S 0.01-25 B<HE,HR,HK>
C944	87-014-051-089		CAP,PP 560P-100 J<HE,HR,HK>
C945	87-010-197-089		C-CAP,S 0.01-25 B<HE,HR,HK>
C946	87-010-401-080		CAP,E 1-50 SME
C950	87-014-073-089		CAP,PP 4700P-100 J<HE,HR,HK>
C952	87-010-197-089		C-CAP,S 0.01-25 B
C953	87-010-197-089		C-CAP,S 0.01-25 B<HE,HR,HK>
C954	87-010-400-089		CAP,E 0.47-50 SME<HE,HR,HK>
C955	87-018-134-080		CAP,TC-U 0.01-16 Y
C956	87-010-263-089		CAP,E 100-10 SME 5X11<HE,HR,HK>

REF. NO	PART NO.	カンリ NO.	DESCRIPTION
C957	87-010-316-089		C-CAP,S 33P-50 CH<EEZ>
C958	87-010-197-089		C-CAP,S 0.01-25 B<EEZ>
C960	87-015-785-080		C-CAP,0.1-25 F
C988	87-018-205-080		CAP,TC-U 0.022-25 F
C999	87-010-196-089		C-CAP,S 0.1-25 F<HE,HR,HK>
CF741	87-030-354-019		VIB,CF BFU450C<HE,HR,HK>
CF801	87-008-423-089		CF,SFE10.7 MS3G-A<EEZ>
CF801	87-008-261-080		FLTR,SFE 10.7MA5-A<HE,HR,HK>
CF802	82-785-747-089		CF,MS2 GHY,R<EEZ>
CF802	87-008-261-080		FLTR,SFE 10.7MA5-A<HE,HR,HK>
D801	87-002-730-080		VARI-CAP,SVC203 SPA
D802	87-002-730-080		VARI-CAP,SVC203 SPA
D803	87-002-730-080		VARI-CAP,SVC203 SPA
D804	87-002-730-080		VARI-CAP,SVC203 SPA<EEZ>
IFT806	87-008-427-010		COIL,FM IFT
J250	87-099-678-010		JACK,6.3W/S BLK
J253	87-099-474-010		JACK,PIN 3P BLK
J254	87-033-227-019		TERMINAL,SP 4P R(Z)*
J652	87-099-715-010		JACK,PIN 2P
J802	87-033-230-019		TERMINAL,ANT AJ-2016<EEZ>
J802	87-033-235-019		TERMINAL,ANT(H)<HE,HR,HK>
L403	87-007-341-010		COIL,TRAP 85K
L404	87-007-341-010		COIL,TRAP 85K
L451	87-007-336-010		COIL,OSC 85K BIAS
L560	87-005-427-080		COIL,3.9UH FLR50
L701	81-631-643-019		COIL,1 POLE MPX<EEZ>
L702	81-631-643-019		COIL,1 POLE MPX<EEZ>
L741	87-006-321-010		COIL,FM DET SAG
L742	81-631-612-019		CFMT,450A<HE,HR,HK>
L742	82-NT1-659-019		FLTR,CFAZ-450 2NT<EEZ>
L770	87-003-102-080		COIL,10UH
L801	87-006-249-010		COIL,ANT FM 3/4TS,L4
L802	87-006-251-019		COIL,ANT FM2-3/4TS,L4
L803	87-006-244-010		COIL,RF FM 3-1/2T,L4
L804	87-006-250-019		COIL,RF FM 3-1/2TS,L4
L805	87-003-098-080		COIL,2.2UH
L807	87-006-205-019		COIL,OSC FM (7K)
L831	87-006-250-019		COIL,RF FM 3-1/2TS,L4<EEZ>
L832	87-003-098-080		COIL,2.2UH
L941	87-006-320-019		COIL,ANT LW(SG1)<EEZ>
L941	87-006-319-019		COIL,ANT SW(SG1)<HE,HR,HK>
L942	87-007-338-019		COIL,OSC LW(SG1)<EEZ>
L942	87-007-337-019		COIL,OSC SW(SG1)<HE,HR,HK>
L943	87-005-372-089		COIL,S 1MH<HE,HR,HK>
L944	87-005-372-089		COIL,S 1MH<HE,HR,HK>
L981	85-NF7-619-019		AM PACK 2,(SG1)<EEZ>
L981	85-NF7-620-019		AM PACK 3,(SG1)<HE,HR,HK>
R105	87-022-050-080		RES,M/F 0.22-1W
R106	87-022-050-080		RES,M/F 0.22-1W
RY102	87-045-382-019		RELAY,OUAZ-SH-112L
SFR301	87-024-177-080		SFR,220K DIA6 V<HE,HR,HK>
SFR301	87-024-174-089		SFR,33K DIA6 V<EEZ>
SFR302	87-024-177-080		SFR,220K DIA6 V<HE,HR,HK>
SFR302	87-024-174-089		SFR,33K DIA6 V<EEZ>
SFR303	87-024-177-080		SFR,220K DIA6 V<HE,HR,HK>
SFR303	87-024-174-089		SFR,33K DIA6 V<EEZ>
SFR304	87-024-177-080		SFR,220K DIA6 V<HE,HR,HK>
SFR304	87-024-174-089		SFR,33K DIA6 V<EEZ>
SFR311	87-024-175-089		SFR,47K DIA6 V<EEZ>
SFR312	87-024-175-089		SFR,47K DIA6 V<EEZ>
SFR451	87-024-175-080		SFR,47K DIA6 V
SFR452	87-024-175-080		SFR,47K DIA6 V
SFR722	87-024-352-080		SFR,4.7K DIA6 H
TC721	87-011-253-080		TRIMER,30P LAR
TC801	87-011-252-080		TRIMER,10P LAR
TC802	87-011-252-080		TRIMER,10P LAR
TC803	87-011-252-089		TRIMER,10P LAR<EEZ>
TC942	87-011-253-089		TRIMER,30P LAR
VR651	82-NF5-660-019		VR,50KBX2 RK14K12A<EEZ>
W101	83-NEG-679-010		F-CABLE,5P-2.5
W102	83-NF5-632-010		CABLE FFC,6P-1.25
X703	84-508-618-010		VIB,CER CSB 456 F15
X721	87-030-372-019		VIB,XTAL 7.2MHZ

FRONT C.B

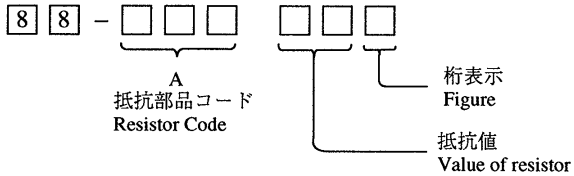
REF. NO	PART NO.	カンリ NO.	DESCRIPTION
C121	87-018-134-080		CAP,TC-U 0.01-16 Y
C122	87-018-131-080		CAP,TC-U 1000P-50 B
C201	87-018-209-080		CAP,TC-U 0.1-50 F
C202	87-018-209-080		CAP,TC-U 0.1-50 F
C203	87-018-209-080		CAP,TC-U 0.1-50 F
C220	87-010-544-040		CAP,E 0.1-50 SME
C221	87-010-544-040		CAP,E 0.1-50 SME
C222	87-010-408-040		CAP,E 47-50 SME
C223	87-010-405-040		CAP,E 10-50 SME
C224	87-010-401-040		CAP,E 1-50 SME
C225	87-010-263-040		CAP,E 100-10
C226	87-010-401-040		CAP,E 1-50 SME
C227	87-010-248-040		CAP,E 220-10 SME
C228	87-018-205-080		CAP,TC-U 0.022-25 F
C229	87-018-127-080		CAP,TC-U 470P-50 B
C250	87-018-122-080		CAP,TC-U 180P-50 B
C251	87-018-107-080		CAP,TC-U 18P-50 SL
C301	87-018-134-080		CAP,TC-U 0.01-16 Y
C302	87-018-205-080		CAP,TC-U 0.022-25 F
C303	87-018-104-080		CAP,TC-U 10P-50 SL
C401	87-010-545-040		CAP,E 0.22-50 SME
C402	87-018-209-080		CAP,TC-U 0.1-50 F
C403	87-018-209-080		CAP,TC-U 0.1-50 F
C508	87-010-112-040		CAP,E 100-16
C509	87-018-134-080		CAP,TC-U 0.01-16 Y
C600	87-010-490-040		CAP,E 0.1-50 5L
C601	87-018-116-080		CAP,TC-U 56P-50 SL
C602	87-010-544-040		CAP,E 0.1-50 SME
C603	87-018-209-080		CAP,TC-U 0.1-50 F
C604	87-018-119-080		CAP,TC-U 100P-50 B
C606	87-018-122-080		CAP,TC-U 180P-50 B
C607	87-010-406-040		CAP,E 22-50 SME
C608	87-010-405-040		CAP,E 10-50 SME
C613	87-018-209-080		CAP,TC-U 0.1-50 F
C614	87-018-209-080		CAP,TC-U 0.1-50 F
C615	87-010-401-040		CAP,E 1-50 SME
C618	87-010-260-040		CAP,E 47-25 SME
C620	87-010-405-040		CAP,E 10-50 SME
C621	87-018-127-080		CAP,TC-U 680P-50 B
C622	87-018-127-080		CAP,TC-U 680P-50 B
C630	87-010-263-040		CAP,E 100-10
C635	87-018-134-080		CAP,TC-U 0.01-16 Y
C651	87-010-401-040		CAP,E 1-50 SME
C652	87-010-401-040		CAP,E 1-50 SME
C653	87-018-115-080		CAP,TC-U 47P-50 SL
C654	87-018-115-080		CAP,TC-U 47P-50 SL
C669	87-018-130-080		CAP,TC-U 820P-50 B
C670	87-018-195-080		CAP,TC-U 1200P-16 X
C671	87-018-199-080		CAP,TC-U 3300P-16 X
C672	87-018-199-080		CAP,TC-U 3300P-16 X
C674	87-010-260-040		CAP,E 47-25 SME
C675	87-010-545-040		CAP,E 0.22-50 SME
C676	87-018-199-080		CAP,TC-U 3300P-16 X
C678	87-010-544-040		CAP,E 0.1-50 SME
C679	87-010-400-040		CAP,E 0.47-50 SME
C682	87-010-263-040		CAP,E 100-10
C683	87-018-103-080		CAP,TC-U 8.2P-50 SL
C684	87-018-103-080		CAP,TC-U 8.2P-50 SL
C686	87-018-131-080		CAP,TC-U 1000P-50 B
C687	87-010-544-040		CAP,E 0.1-50 SME
C688	87-010-400-040		CAP,E 0.47-50 SME
C689	87-018-209-080		CAP,TC-U 0.1-50 F
C691	87-010-401-040		CAP,E 1-50 SME
C714	87-010-544-040		CAP,E 0.1-50 SME

REF. NO	PART NO.	カンリ NO.	DESCRIPTION
C715	87-018-209-080		CAP,TC-U 0.1-50 F
EMI600	87-008-372-080		FLTR,EMI BL01RNI
FL101	85-NFH-609-010		FL,8-BT-187GK
J600	82-NF7-630-010		JACK,3.5 MO
J601	82-NF7-630-010		JACK,3.5 MO
L201	87-007-340-010		COIL,CLOCK 4.19MHZ
L670	87-005-446-080		COIL,150UH FLR50
LED322	87-070-201-080		LED,SLP9118C-51-S-T1
LED323	87-070-201-080		LED,SLP9118C-51-S-T1
LED324	87-070-201-080		LED,SLP9118C-51-S-T1
LED325	87-070-201-080		LED,SLP9118C-51-S-T1
LED330	87-017-784-080		LED,SEL1550CM TP8
LED331	87-017-784-080		LED,SEL1550CM TP8
LED332	87-017-784-080		LED,SEL1550CM TP8
LED333	87-017-784-080		LED,SEL1550CM TP8
LED334	87-017-784-080		LED,SEL1550CM TP8
LED335	87-017-784-080		LED,SEL1550CM TP8
S302	87-036-397-080		SW,TACT SKQNAB
S303	87-036-397-080		SW,TACT SKQNAB
S308	87-036-397-080		SW,TACT SKQNAB
S309	87-036-397-080		SW,TACT SKQNAB
S310	87-036-397-080		SW,TACT SKQNAB
S311	87-036-397-080		SW,TACT SKQNAB
S312	87-036-397-080		SW,TACT SKQNAB
S313	87-036-397-080		SW,TACT SKQNAB
S314	87-036-397-080		SW,TACT SKQNAB
S315	87-036-397-080		SW,TACT SKQNAB
S316	87-036-397-080		SW,TACT SKQNAB
S317	87-036-397-080		SW,TACT SKQNAB
S318	87-036-397-080		SW,TACT SKQNAB
S319	87-036-397-080		SW,TACT SKQNAB
S320	87-036-397-080		SW,TACT SKQNAB
S321	87-036-397-080		SW,TACT SKQNAB
S322	87-036-397-080		SW,TACT SKQNAB
S323	87-036-397-080		SW,TACT SKQNAB
S324	87-036-397-080		SW,TACT SKQNAB
S325	87-036-397-080		SW,TACT SKQNAB
S326	87-036-397-080		SW,TACT SKQNAB
S327	87-036-397-080		SW,TACT SKQNAB
S328	87-036-397-080		SW,TACT SKQNAB
VR600	83-NM1-627-010		VR,10KB RK11K1130
VR601	81-MX4-637-010		VR,10KA RK11K1130
W103	88-914-301-210		FF-CABLE,14P 1.25
W104	85-NF5-615-010		CABLE,FFC 15P-1.25

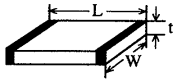
REF. NO	PART NO.	カンリ NO.	DESCRIPTION
MVR C.B			
C692	87-010-401-040		CAP,E 1-50 SME
C800	87-018-205-080		CAP,TC-U 0.022-25 F
MVR801	81-MX4-635-010		VR,50KBX2 RK16812 MG
KEY C.B			
S301	87-036-397-080		SW,TACT SKQNAB
S304	87-036-397-080		SW,TACT SKQNAB
S305	87-036-397-080		SW,TACT SKQNAB
S306	87-036-397-080		SW,TACT SKQNAB
S307	87-036-397-080		SW,TACT SKQNAB
AC2 C.B			
⚠PT101	82-NF7-655-010		PT,2NF7 HM<HE,HR,HK>
⚠PT101	83-NF2-611-010		PT,3NE3 EKZ<EEZ>
AC1 C.B			
⚠	87-033-213-080		CLAMP,FUSE SMK
⚠	82-304-743-010		TERMINAL,1P
⚠F101	87-035-237-010		FUSE 2A 250V<HE,HR,HK>
⚠F101	87-035-359-010		FUSE 500mA 250V TE<EEZ>
⚠SW101	87-036-388-010		SW,SL 1-2-2<HE,HR,HK>
DECK C.B			
SFR1	87-024-581-010		SFR,3.3K DIA 6H
SOL1	82-ZM1-618-310		SOL ASSY,27
SOL2	82-ZM1-618-310		SOL ASSY,27
SW1	87-036-378-010		SW,PUSH 1-1-1 SH2
SW2	87-036-378-010		SW,PUSH 1-1-1 SH2
SW3	87-036-378-010		SW,PUSH 1-1-1 SH2
SW4	87-036-378-010		SW,PUSH 1-1-1 SH2
SW5	87-036-378-010		SW,PUSH 1-1-1 SH2
SW6	87-036-378-010		SW,PUSH 1-1-1 SH2
SW8	87-036-378-010		SW,PUSH 1-1-1 SH2
SW9	87-036-378-010		SW,PUSH 1-1-1 SH2
RELAY-1 C.B			
W106	85-NF5-609-019		CONN ASSY,3P-PB
RELAY-2 C.B			
W105	83-NEG-608-019		CONN ASSY 8P-RPB

○ チップ抵抗部品コード／CHIP RESISTOR PART CODE

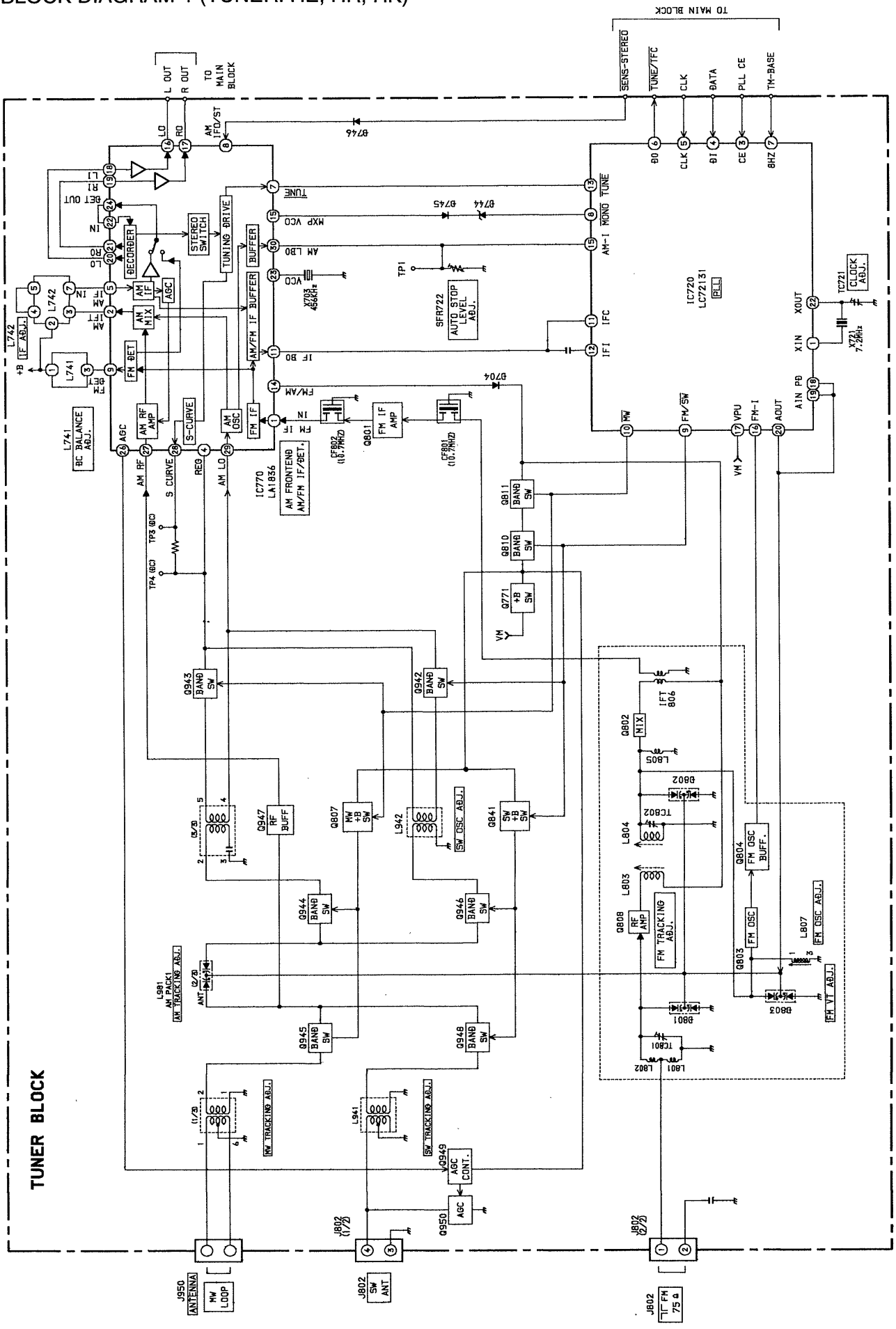
チップ抵抗部品コードの成り立ち
Chip Resistor Part Coading



チップ抵抗
Chip resistor

Wattage 容量	Type 種類	Tolerance 許容誤差	Symbol 記号	Dimensions／寸法 (mm) Form／外形	L	W	t	Resistor Code: A 抵抗コード ：A
1／32W	1608	±5%	CJ		1.6	0.8	0.35	108
1／10W	2125	±5%	CJ		2	1.25	1.45	118
1／8W	3216	±5%	CJ		3.2	1.6	0.5 ~0.7	128

BLOCK DIAGRAM-1 (TUNER: HE, HR, HK)



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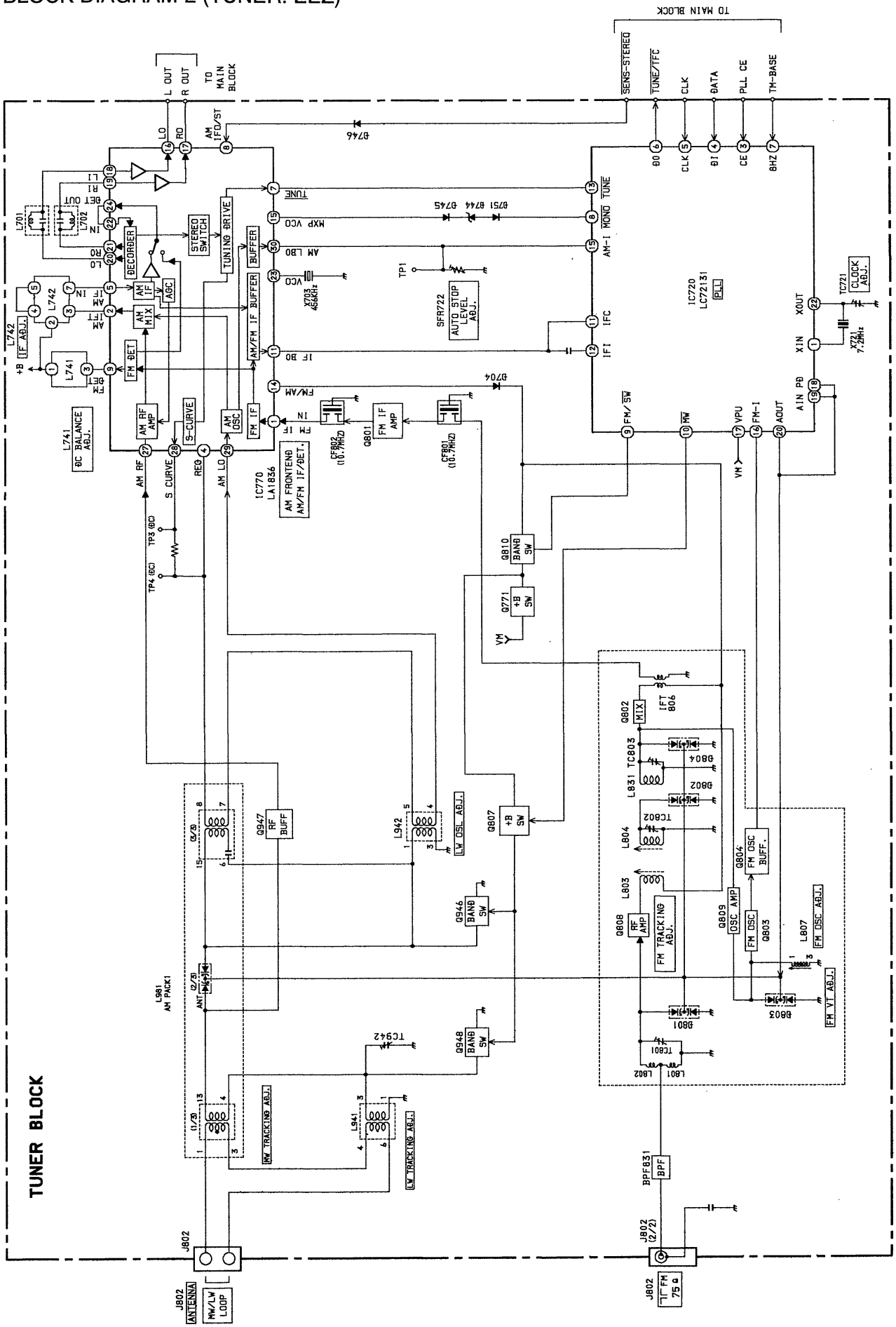

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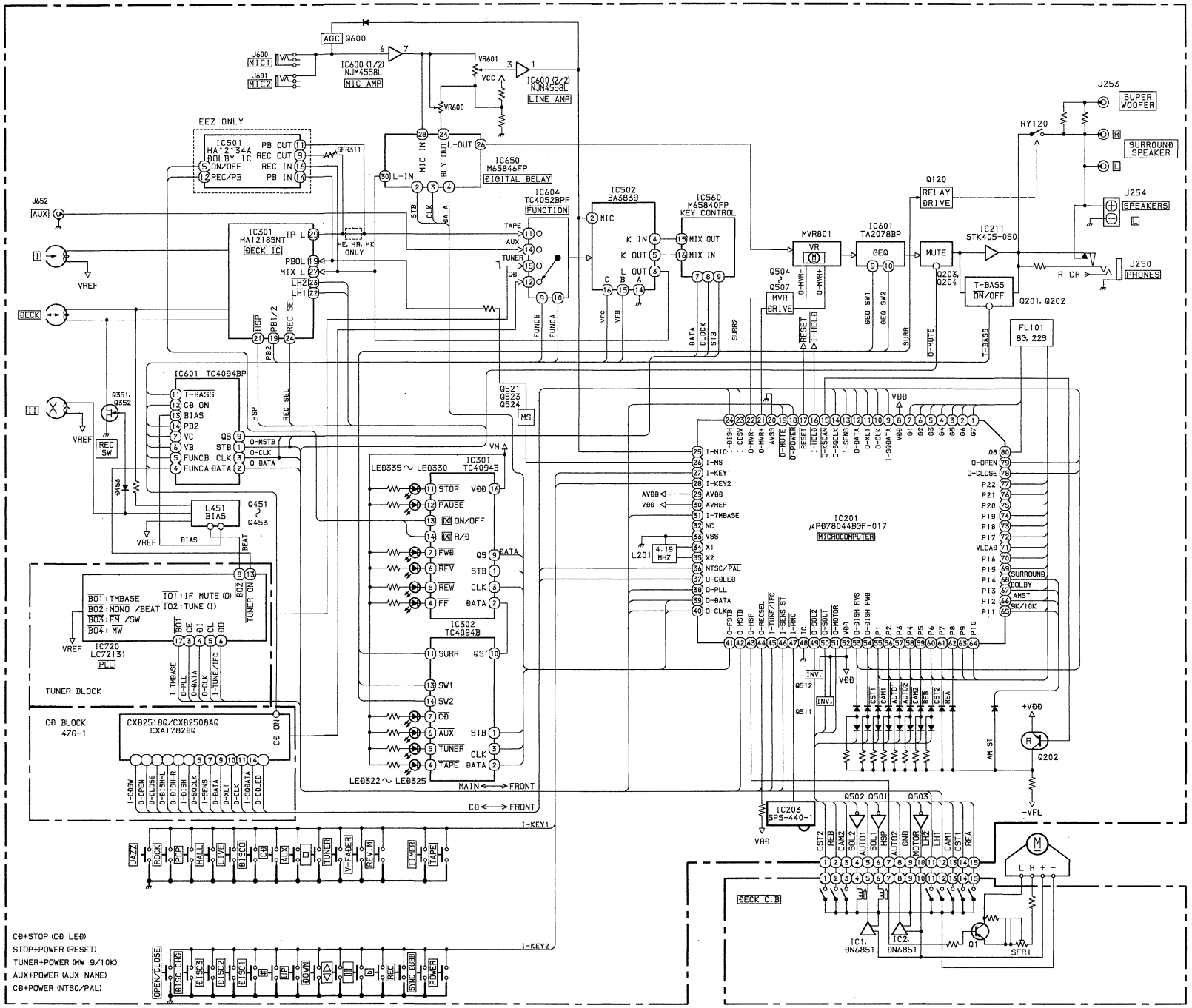
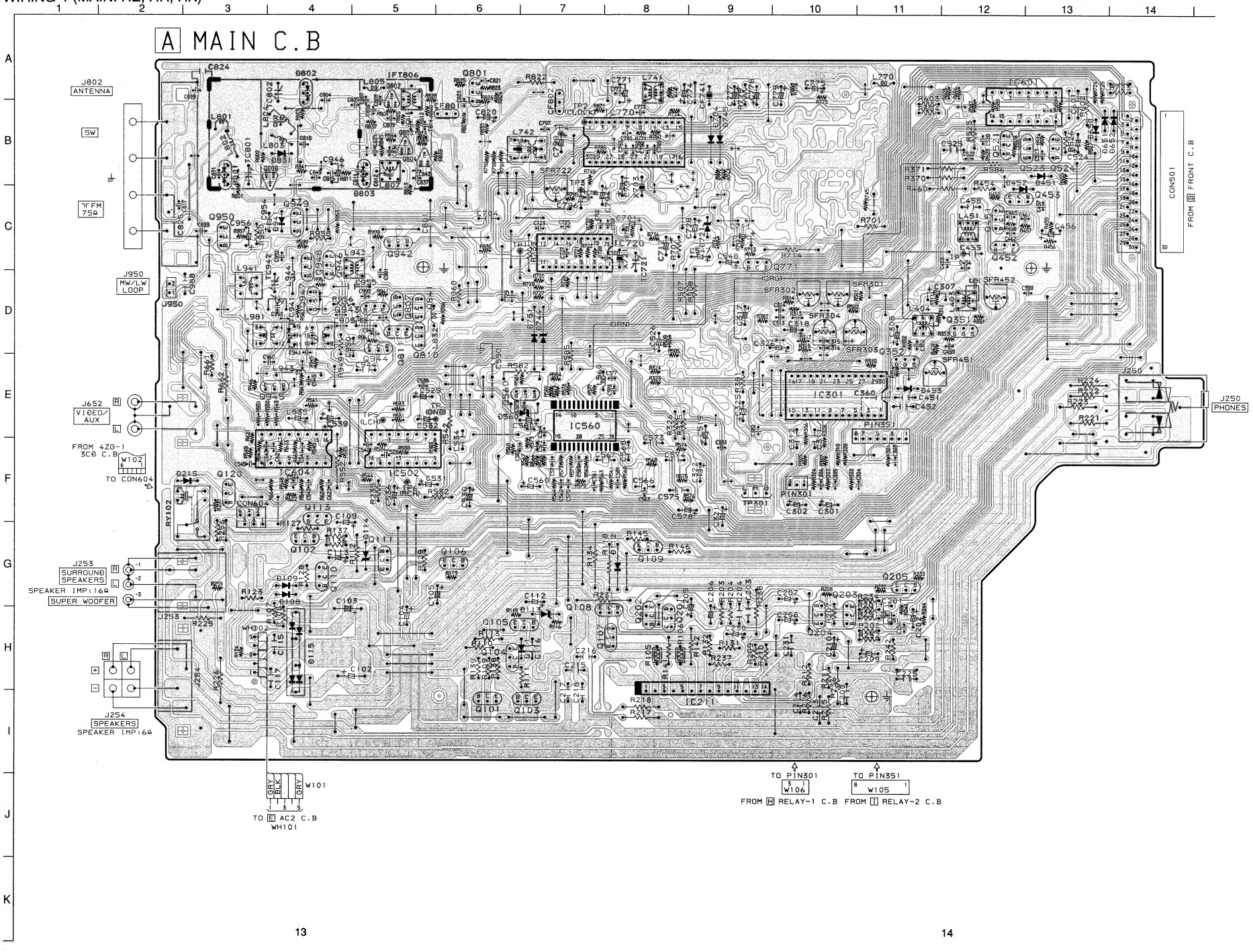
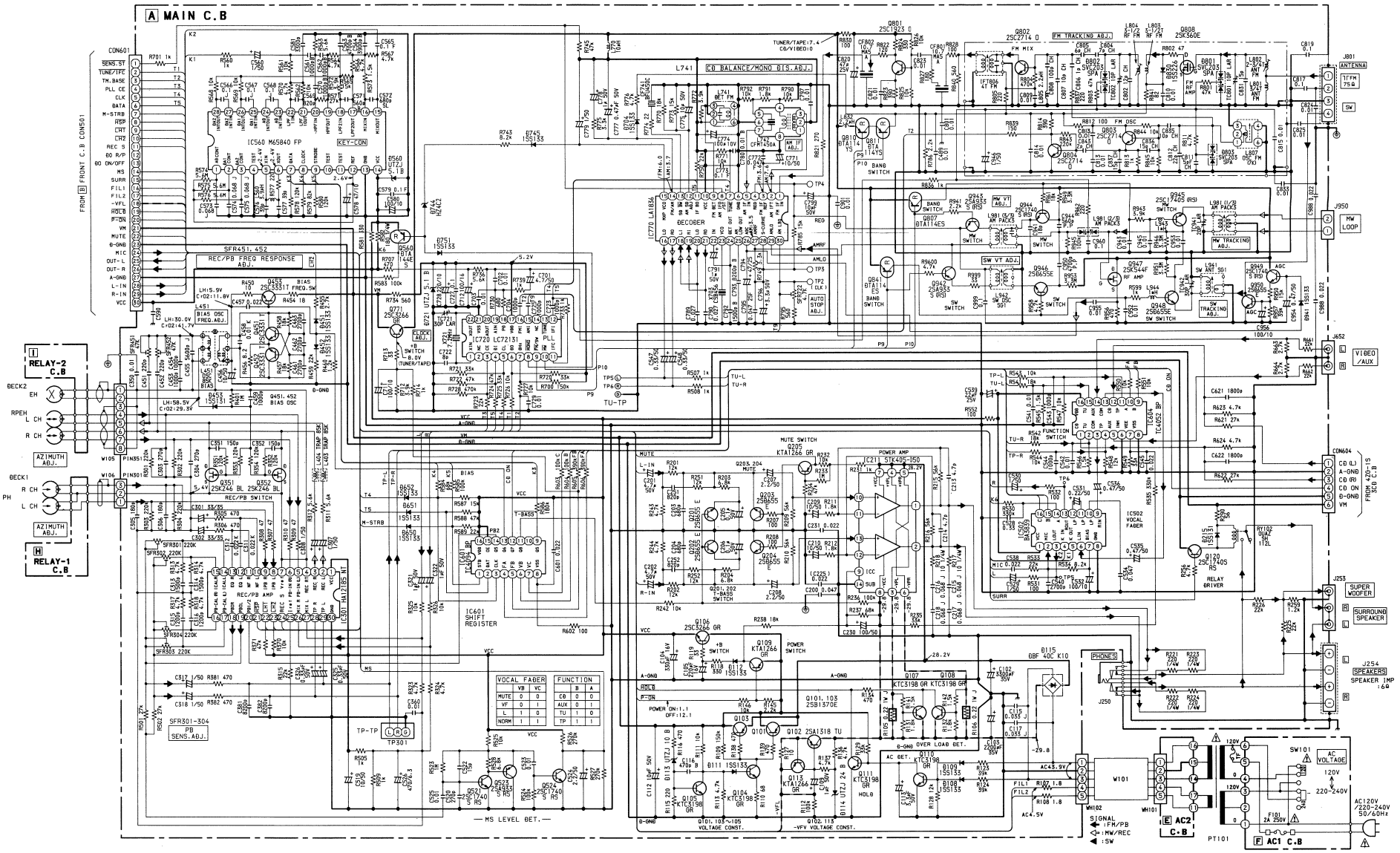


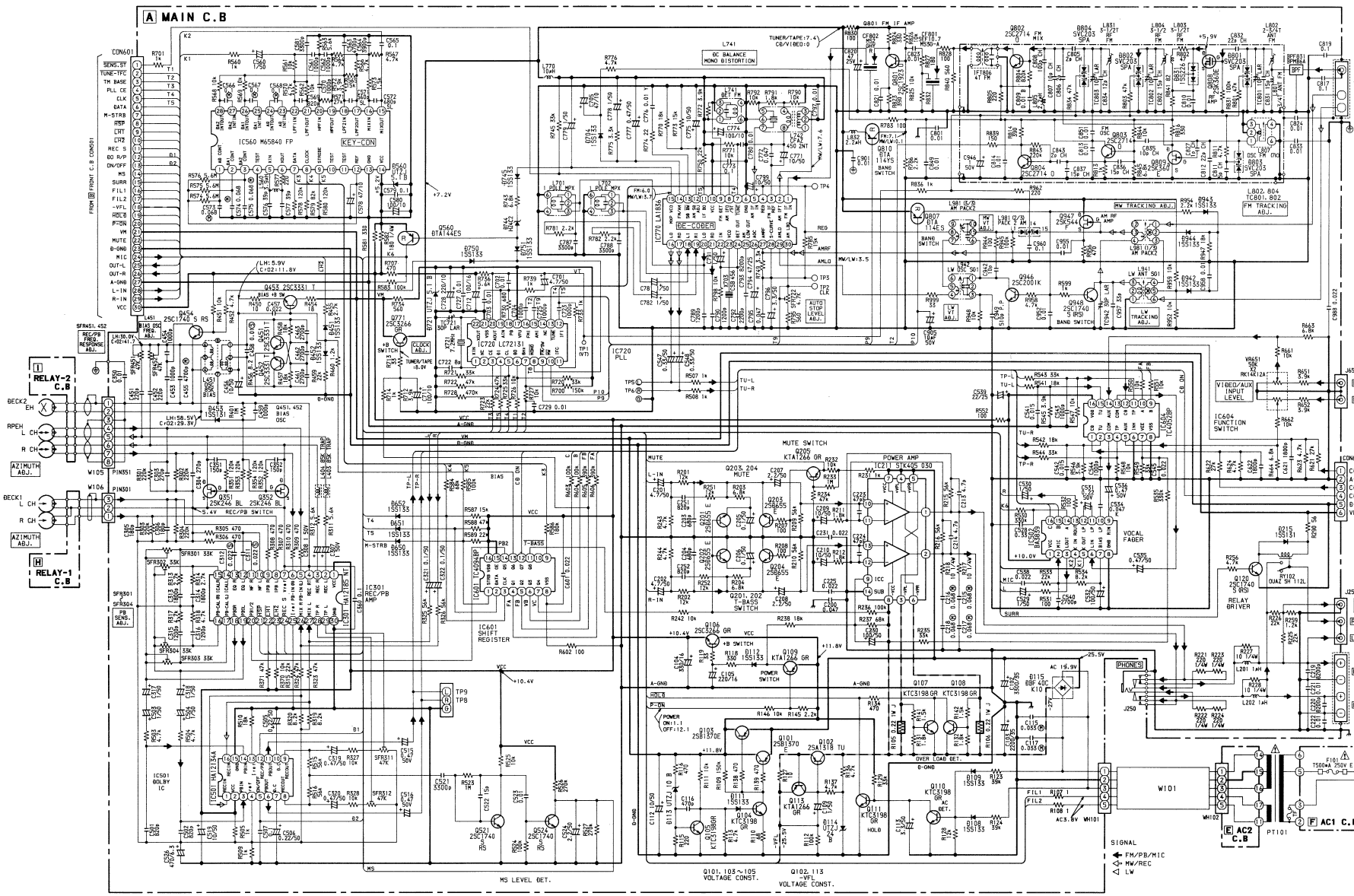
WIRING-1 (MAIN: HE, HR, HK)



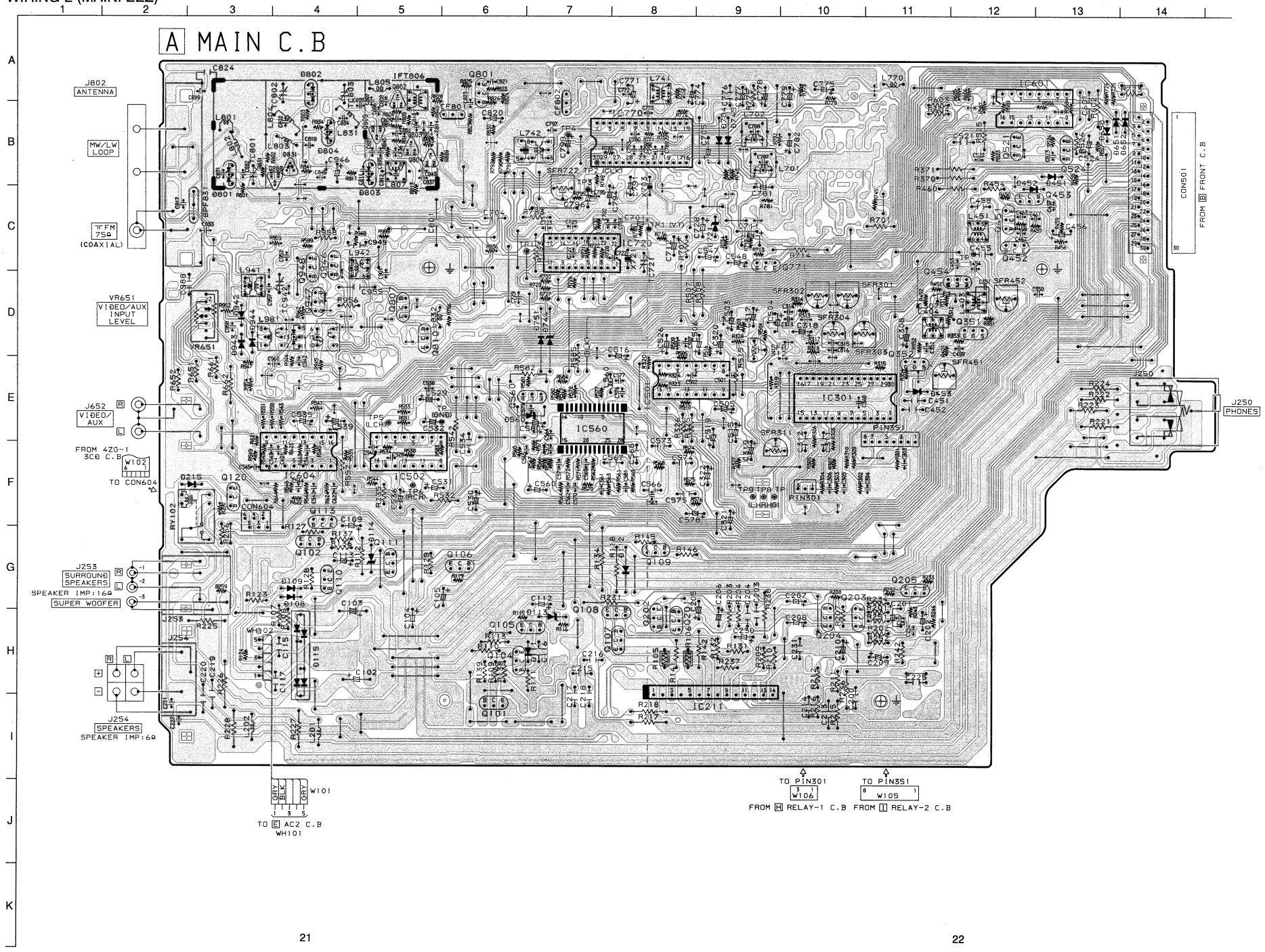
SCHEMATIC DIAGRAM-1 (MAIN: HE, HR, HK)



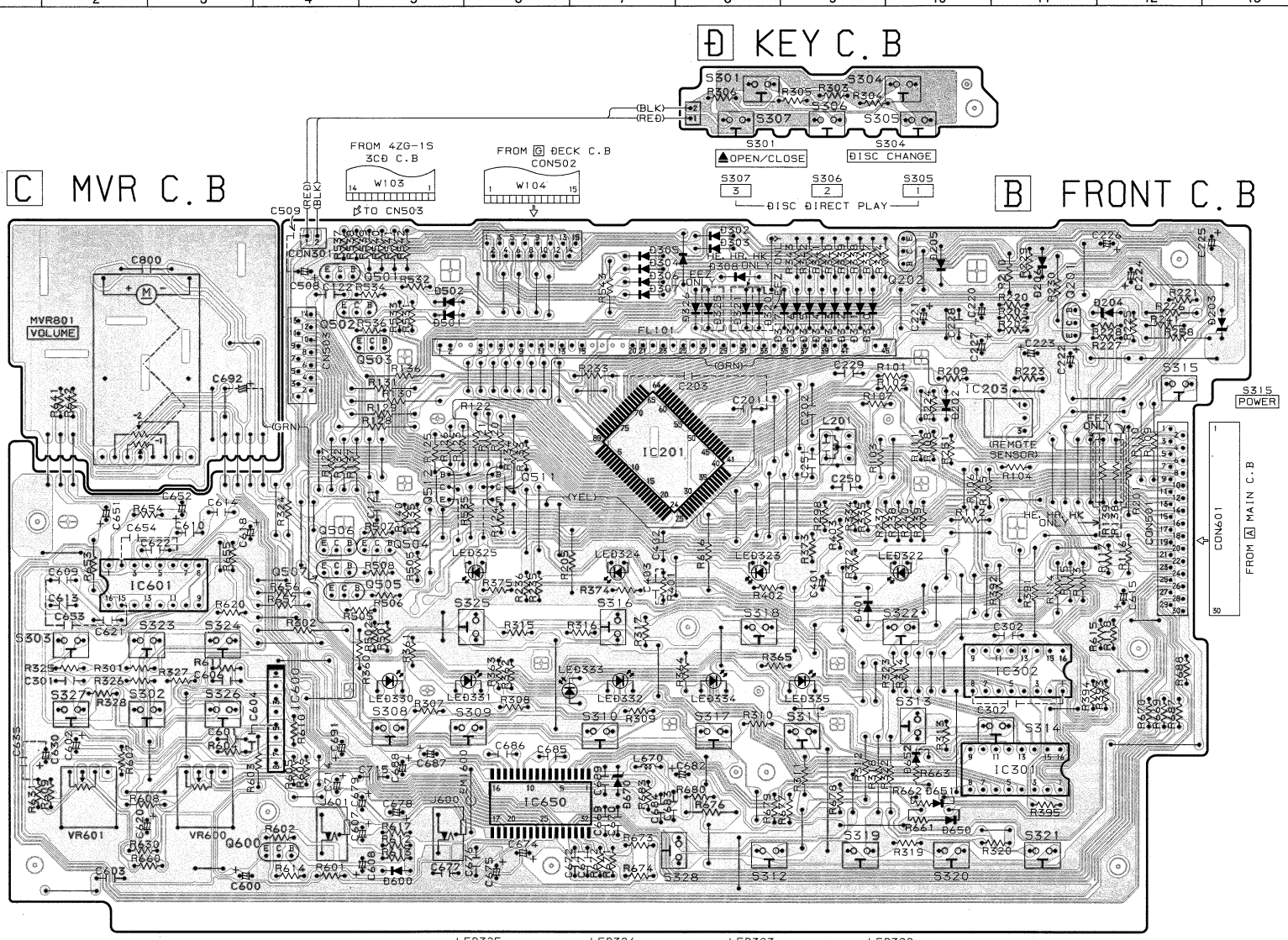
SCHEMATIC DIAGRAM-2 (MAIN: EEZ)



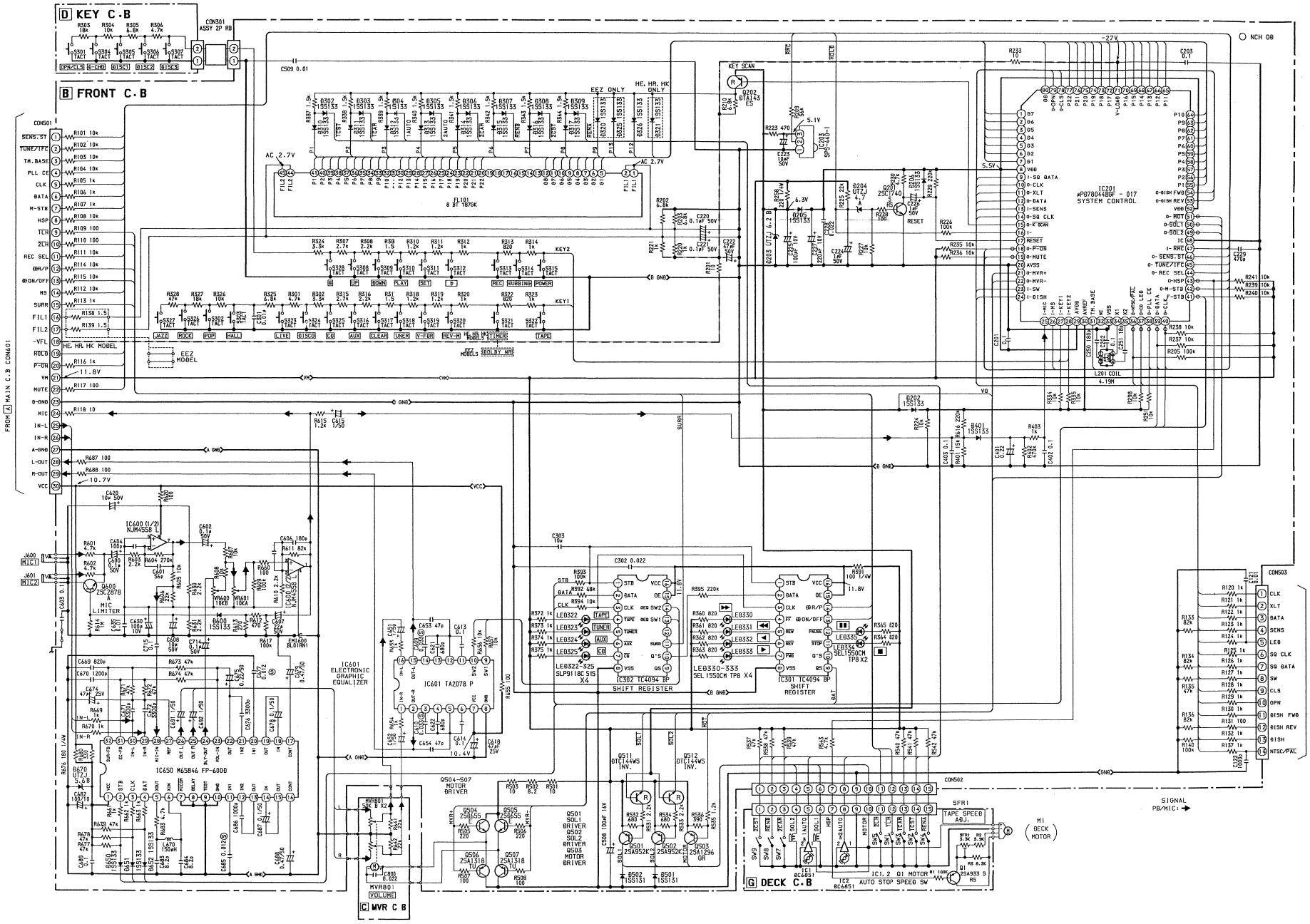
WIRING-2 (MAIN: EEZ)

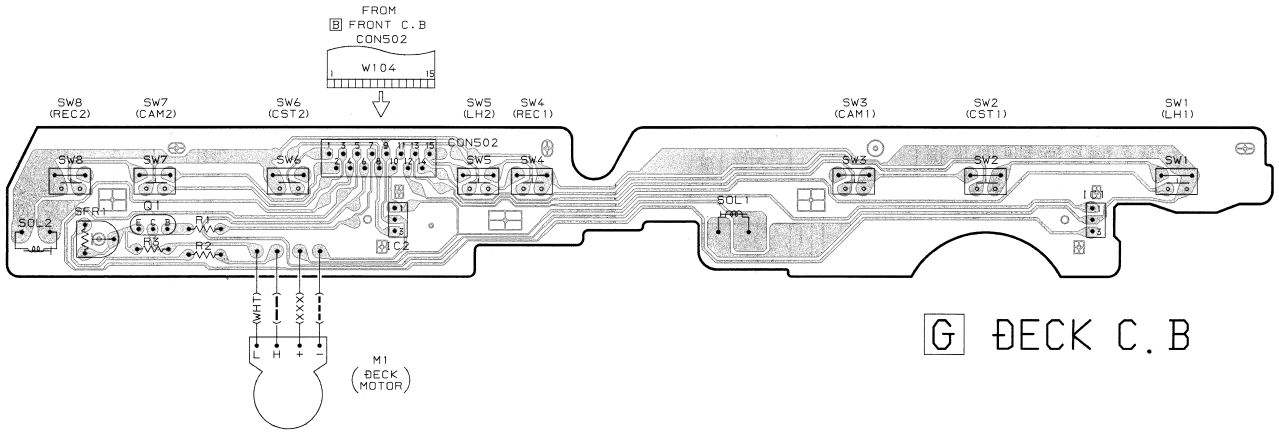


WIRING-3 (FRONT)

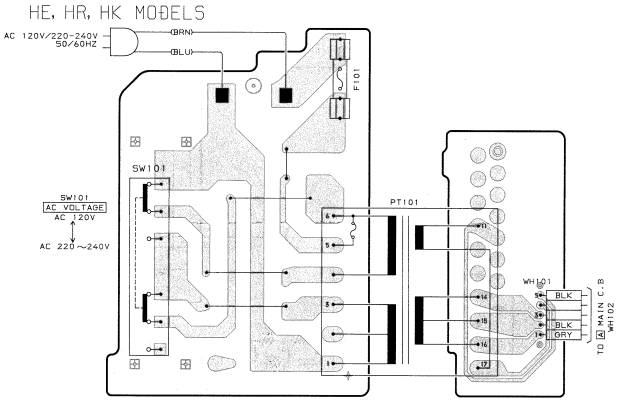


SCHEMATIC DIAGRAM-3 (FRONT)

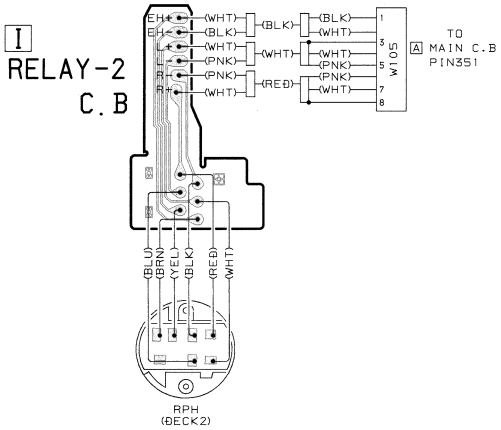


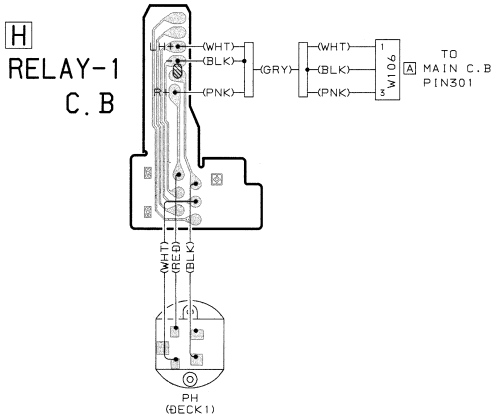


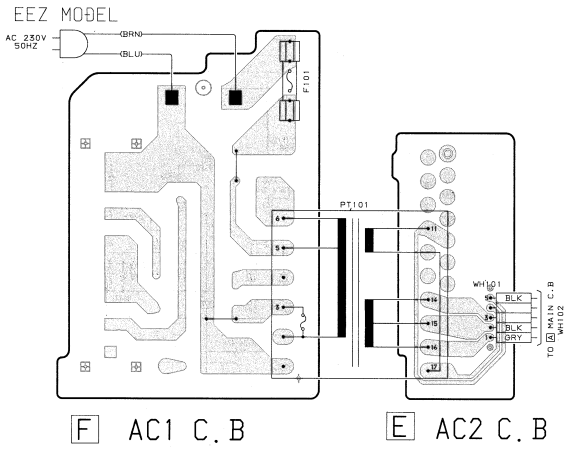
G DECK C.B



F AC1 C.B E AC2 C.B







F AC1 C.B E AC2 C.B

IC DESCRIPTION

IC, LC72131

<table>
<tr><th>Pin No.</th><th>Pin Name</th><th>I/O</th><th>Description</th></tr>
<tr><td>1</td><td>XI</td><td>–</td><td rowspan="2">A crystal oscillator (7.2MHz) is connected between these pins.</td></tr>
<tr><td>22</td><td>XO</td><td>–</td></tr>
<tr><td>2</td><td>NC</td><td>–</td><td>Not used.</td></tr>
<tr><td>3</td><td>CE</td><td>I</td><td>To enable the IC. Active "H".</td></tr>
<tr><td>4</td><td>DI</td><td>I</td><td>Digital data input from CPU (LC866432V–5751) when relevant key is operated. Active "H".</td></tr>
<tr><td>5</td><td>CLK</td><td>I</td><td>To clock in the data DI.</td></tr>
<tr><td>6</td><td>DO</td><td>O</td><td>Digital data output to CPU (LC866432V–5751).</td></tr>
<tr><td>7</td><td>TM-BASE</td><td>O</td><td>Outputs a reference clock signal (8Hz) for the clock.</td></tr>
<tr><td>8</td><td>$\overline{\text{MONO/ST BEAT}}$</td><td>O</td><td>Outputs "H" when MONO/ST BEAT is switched.</td></tr>
<tr><td>9</td><td>$\overline{\text{FM/SW1}}$</td><td>O</td><td>Output "L" or "H" as follows:
<table>
<tr><th colspan="2">2 BAND</th><th colspan="3">3 BAND</th><th colspan="4">4 BAND</th></tr>
<tr><th>AM</th><th>FM</th><th>LW</th><th>MW</th><th>FM</th><th>LW</th><th>SW1</th><th>SW2</th><th>FM</th></tr>
<tr><td>H</td><td>L</td><td>H</td><td>H</td><td>L</td><td>H</td><td>L</td><td>H</td><td>L</td></tr>
</table></td></tr>
<tr><td>10</td><td>$\overline{\text{MW/SW2}}$</td><td>O</td><td>Outputs "L" or "H" as follows:
<table>
<tr><th colspan="2">2 BAND</th><th colspan="3">3 BAND</th><th colspan="4">4 BAND</th></tr>
<tr><th>AM</th><th>FM</th><th>LW</th><th>MW</th><th>FM</th><th>LW</th><th>SW1</th><th>SW2</th><th>FM</th></tr>
<tr><td>L</td><td>L</td><td>H</td><td>L</td><td>L</td><td>H</td><td>H</td><td>L</td><td>L</td></tr>
</table></td></tr>
<tr><td>11</td><td>$\overline{\text{IF-MUTE}}$</td><td>O</td><td>To control internal counter.</td></tr>
<tr><td>12</td><td>IFIN</td><td>I</td><td>General purpose counter input.</td></tr>
<tr><td>13</td><td>$\overline{\text{TUNE}}$</td><td>I</td><td>Receives "L" when station is tuned.</td></tr>
<tr><td>14</td><td>NC</td><td>–</td><td>Not used.</td></tr>
<tr><td>15</td><td>AM-I</td><td>I</td><td>Receives the AM local oscillator frequency signal.</td></tr>
<tr><td>16</td><td>FM-I</td><td>I</td><td>Receives the FM local oscillator frequency signal.</td></tr>
<tr><td>17</td><td>VDD</td><td>–</td><td>Supply power to IC (+5V).</td></tr>
<tr><td>18</td><td>PD</td><td>O</td><td>PLL charge pump output.</td></tr>
<tr><td>19</td><td>AIN</td><td>I</td><td rowspan="2">Nch MOS transistor for PLL active low pass filter.</td></tr>
<tr><td>20</td><td>AOUT</td><td>O</td></tr>
<tr><td>21</td><td>VSS</td><td>–</td><td>Ground.</td></tr>
</table>

IC, M65840FP

Pin No.	Pin Name	I/O	Description
1	ADC	–	ADM A/D adaptive control.
2	DA1C	–	ADM D/A1 adaptive control.
3	DA2C	–	ADM D/A2 adaptive control.
4	TEST1	I	L: Normal function mode, H: test mode.
5	X-I	I	16MHz Ceramic resonator.
6	X-O	O	
7	DATA	I	Clocked serial bus data input.
8	CLK	I	Clocked serial bus clock input.
9	STB	I	Clocked serial bus strobe input.
10	TEST2	O	Test output.
11	TEST3	O	Test output.
12	REF	–	Analog 1/2Vcc, connect filter capacitor.
13	GND	–	Ground.
14	VCC	–	Nominally 5V.
15	M-O	O	Mixing key controlled low frequency signal and through outputted high frequency signal.
16	M-I	I	
17	LPF2-O	O	Forms post lowpass filter with external CR for digital key control.
18	LPF2-I	I	
19	HPF-O	O	Forms highpass filter with external CR for through outputting high frequency signal.
20	HPF-I	I	
21	LPF1-O	O	Forms pre lowpass filter with external CR for digital key control.
22	LPF1-I	I	
23	ADI-I	I	Forms integrator with external C.
24	ADI-O	O	
25	DA1I-I	I	Forms integrator with external C.
26	DA1I-O	O	
27	DA2I-I	I	Forms integrator with external C.
28	DA2I-O	O	

IC, μPD78044BGF-017

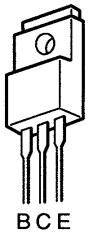
Pin No.	Pin Name	I/O	Description
1~7	G7 ~G1	O	Digit output for FL display.
8	VDD	-	Power supply terminal. (+5V)
9	I-SQDATA	I/O	CD IC control input/output.
10	O-CLK		
11	O-XLT		
12	O-DATA		
13	I-SENS		
14	O-SQCLK	I/O	Serial data output to control the signal processing IC for CD.
15	$\overline{\text{O-KSCAN}}$	I/O	Segment input permitted output. (Low active)
16	$\overline{\text{I-HOLD}}$	I/O	Power failure detected input. (Low when Hold)
17	$\overline{\text{RESET}}$	I	System reset input.
18	$\overline{\text{O-POWER}}$	I/O	System power supply $\overline{\text{ON}}$/OFF output.
19	O-MUTE	I/O	System mute ON/OFF output.
20	AVSS	-	GND.
21	O-MVR +	I/O	Motor volume up output.
22	O-MVR –	I/O	Motor volume down output.
23	I-CD SW	I/O	CD Mechanical switch AD input.
24	I-DISH	I/O	CD turntable photo sensor A/D input.
25	I-MIC	I/O	Mic level A/D input for auto vocal fader.
26	I-MS	I/O	A/D input of key data from DECK button.
27	I-KEY 1	I/O	KEY1 A/D input.
28	I-KEY 2	I/O	KEY2 A/D input.
29	AVDD	-	Power supply terminal.
30	AVREF	I	Reference voltage. (+5V)
31	I-TMBASE	I	Input a reference clock signal (8Hz) to the clock.
32	NC	-	-
33	VSS	-	GND.
34	X1	I	4.19MHz clock oscillator input.
35	X2	-	4.19MHz clock oscillator input.
36	O-NTSC/$\overline{\text{PAL}}$	O	CD graphic control signal. NTSC mode when "H"(+5V) is input.
37	O-CD LED	I/O	CD flash window LED ON/$\overline{\text{OFF}}$ output.
38	O-PLL	I/O	PLL IC chip enable output.
39	O-DATA	I/O	PLL shift register data output.
40	O-CLK	I/O	PLL shift register clock output.
41	O-FSTB	I/O	Shift register data latch strobe output.
42	O-MSTB	I/O	Shift register data latch strobe output.
43	O-HSP	I/O	Deck motor high speed ON/$\overline{\text{OFF}}$ output.
44	O-REC SEL	I/O	Deck recording input switch.(HiZ-RMT, H-MIX, L-TAPE)

Pin No.		I/O	Description
44	O-REC SEL	I/O	"HiZ" (MUTE) / REC muting; "H" (MIX) / Manual dubbing; "L" (TAPE) / Synchronize dubbing; Dolby On : "L"(TAPE) Dolby Off : "H" (MIX) / Tuner/Aux/CD Recording
45	$\overline{\text{I-TUNE/IFT}}$	I/O	SD detected input or serial data input of IF count to and from Tuner. (Active low)
46	$\overline{\text{I-SENS ST}}$	I/O	Stereo detected input to and from Tuner. (Active low)
47	$\overline{\text{I-RMC}}$	I/O	System remote controller input.
48	IC	-	Internal connection. (connected to GND)
49	$\overline{\text{O-SOL2}}$	O	Mechanism solenoid drive control output to DECK 2. "L" when ON.
50	$\overline{\text{O-SOL1}}$	O	Mechanism solenoid drive control output to DECK 1. "L" when ON.
51	$\overline{\text{O-MOTOR}}$	O	Mechanism main motor drive control output to DECKs. "L" when ON.
52	VDD	-	Power supply terminal. (+5V)
53	O-DISH RVS	O	Mechanism 3 disc table drive control output to IC203. "H" during forward rotation.
54	O-DISH FWD	O	Mechanism 3 disc table drive control output to IC203. "H" during reverse rotation.
55 ~ 70	P1 ~ P16	O	Segment output for FL display.
71	VLOAD	-	-27V power supply for FL pull down.
72~77	P17~22	O	Segment output for FL display.
78	O-CLOSE	O	CD tray close.
79	O-OPEN	O	CD tray open.
80	G8	O	Digit output for FL display.

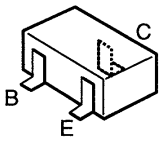
TRANSISTOR ILLUSTRATION

2SA933 2SC3266
2SA952 2SC3331
2SA1296 2SD655
2SA1318 KTA1266
2SC1923 KTC3198
2SC2878

2SC1740S
DTA114ES
DTA114YS
DTA143ES
DTA144ES
DTC144WS



2SB1370



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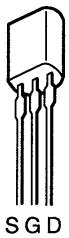

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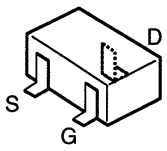

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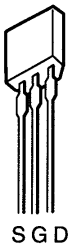
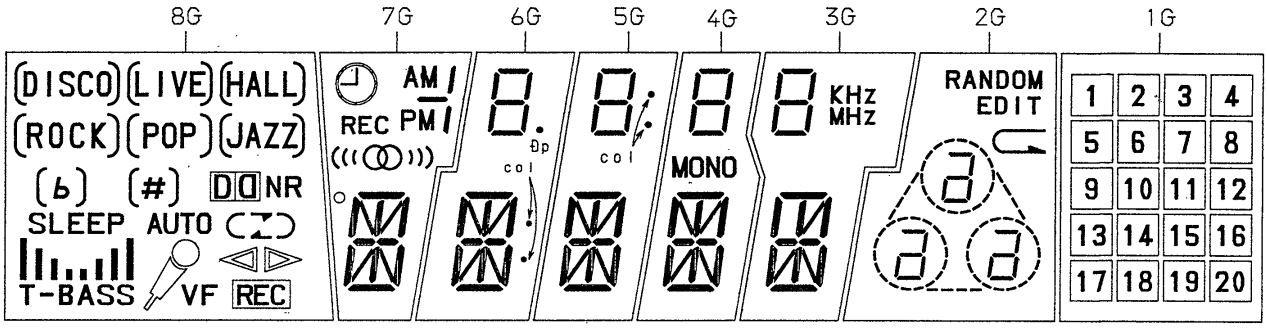
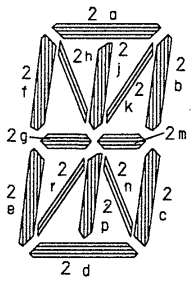


2SK544

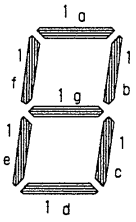
FL DISPLAY (8-BT-187GK) GRID ASSIGNMENT / ANODE CONNECTION

GRID ASSIGNMENT

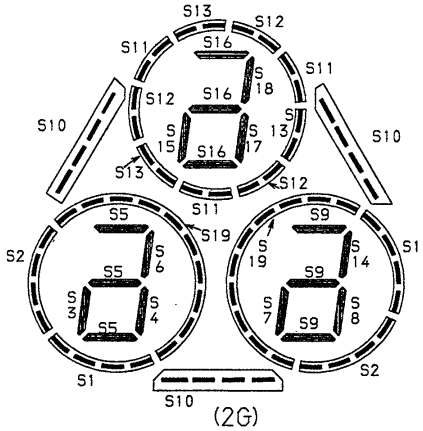




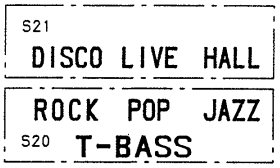
(7G ~ 3G)



(6G ~ 3G)



(2G)

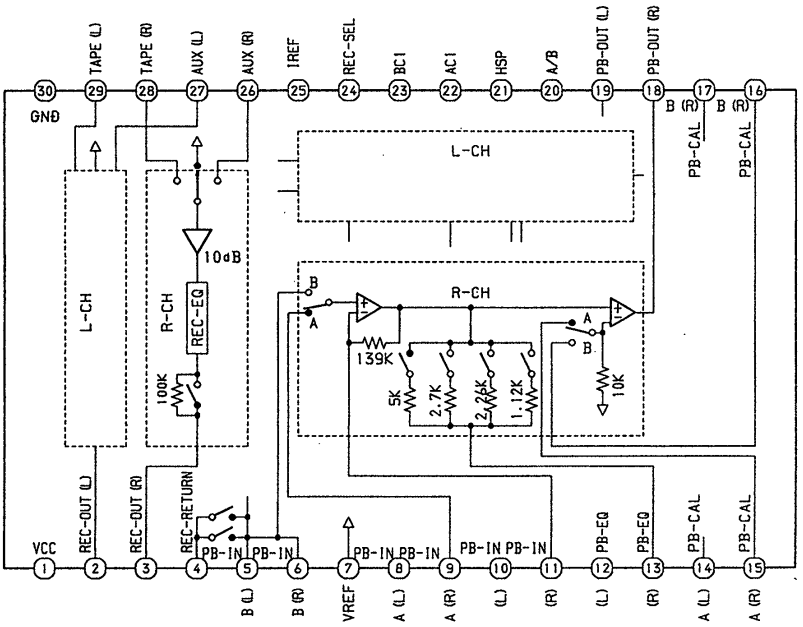


(8G)

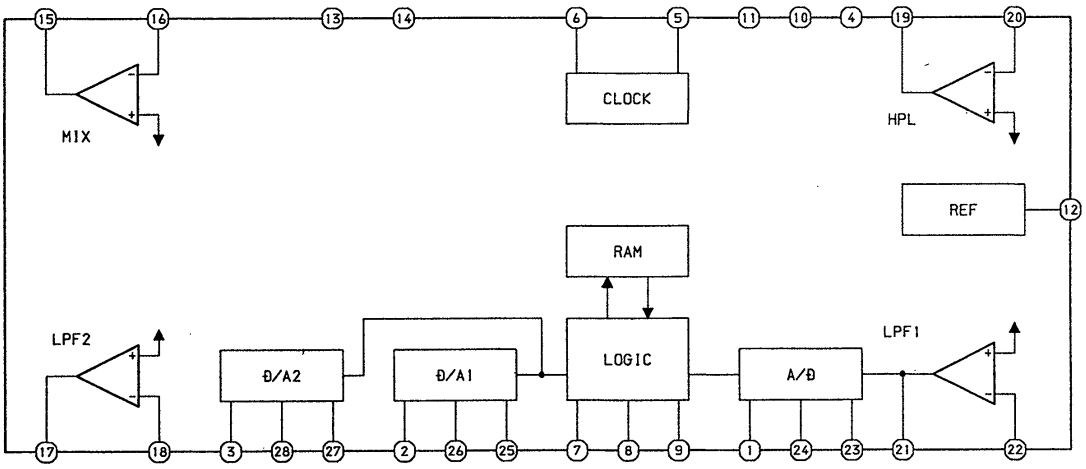
ANODE CONNECTION

	8G	7G	6G	5G	4G	3G	2G	1G
P1	SLEEP	2d	2d	2d	2d	2d	S1	**20**
P2		2j ,2p	2j ,2p	2j ,2p	2j, 2p	2j, 2p	S2	**19**
P3	( )(b)	2n	2n	2n	2n	2n	S3	**18**
P4	AUTO	2r	2r	2r	2r	2r	S4	**17**
P5	VF	2c	2c	2c	2c	2c	S5	**16**
P6	(DISCO)	2e	2e	2e	2e	2e	S6	**15**
P7	(LIVE)	2m	2m	2m	2m	2m	S7	**14**
P8	(HALL)	2g	2g	2g	2g	2g	S8	**13**
P9	REC	2f	2f	2f	2f	2f	S9	**12**
P10	( )(#)	2b	2b	2b	2b	2b	S10	**11**
P11	b #	2k	2k	2k	2k	2k	S11	**10**
P12		2h	2h	2h	2h	2h	S12	**9**
P13		2a	2a	2a	2a	2a	S13	**8**
P14		O	col	col (下)	MONO	MHz	S14	**7**
P15		((( )))	Dp	col (上)	-	kHz	S15	**6**
P16		REC	1d	1d	1d	1d	S16	**5**
P17	NR		1e	1e	1e	1e	S17	**4**
P18	(ROCK)	PM	1c	1c	1c	1c	S18	**3**
P19	(POP)	AM	1g	1g	1g	1g	S19	**2**
P20	(JAZZ)	—	1f	1f	1f	1f		**1**
P21	S20	/	1b	1b	1b	1b	EDIT	
P22	S21	-	1a	1a	1a	1a	RANDOM	-

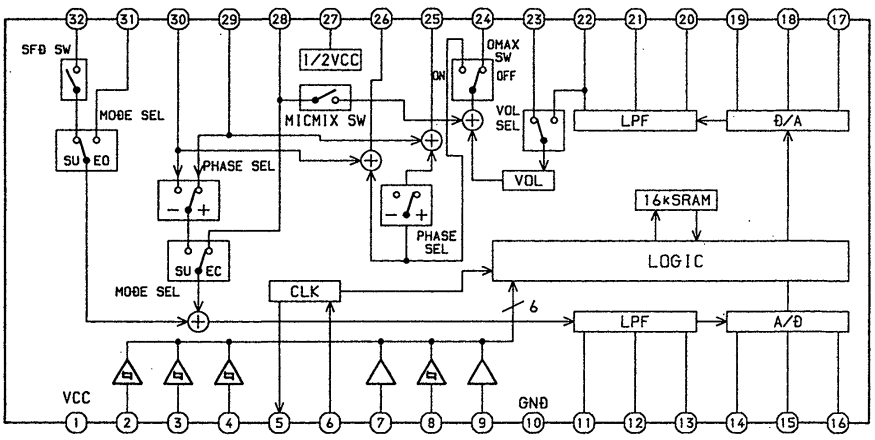
IC, HA12185NT



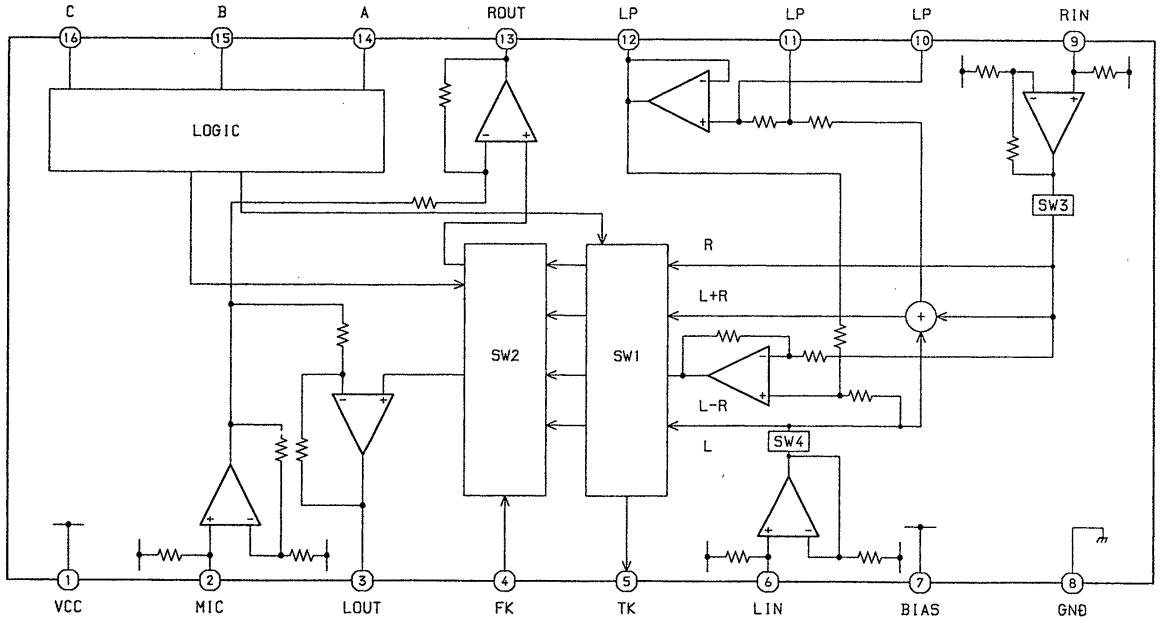
IC, M65840FP



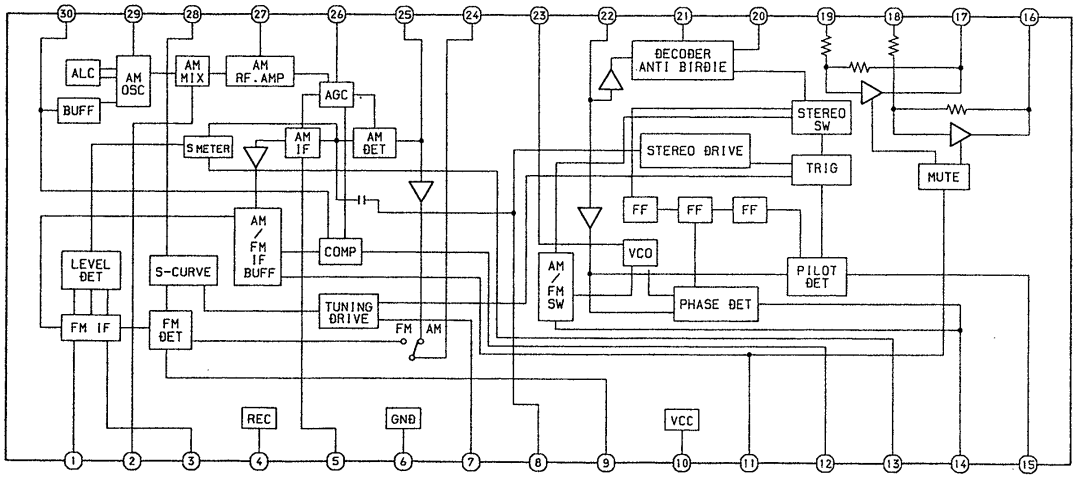
IC, M65846FP-600D



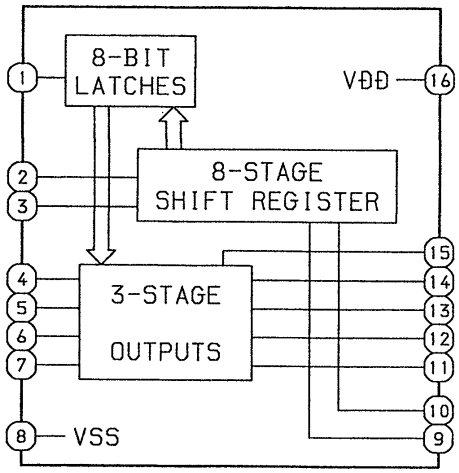
IC, BA3839



IC, LA1836



IC, TC4094BP



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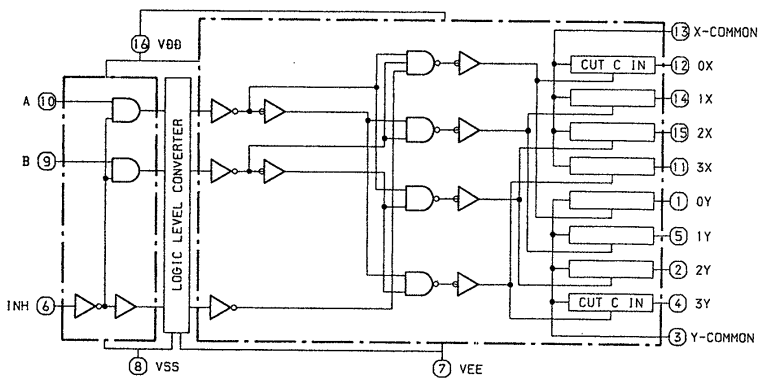
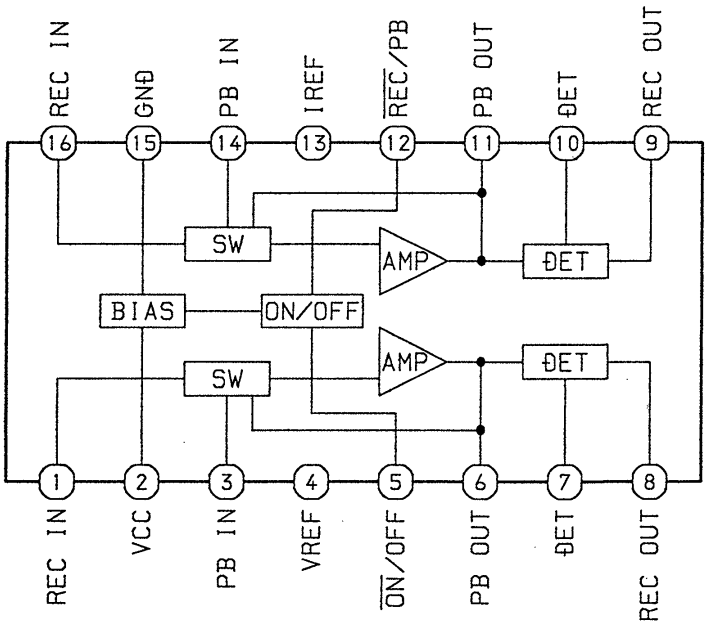
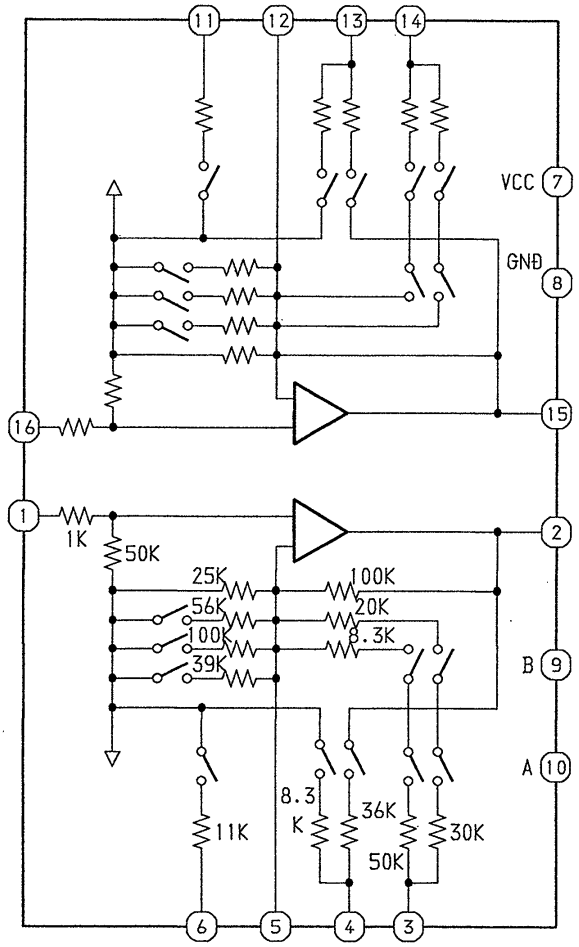


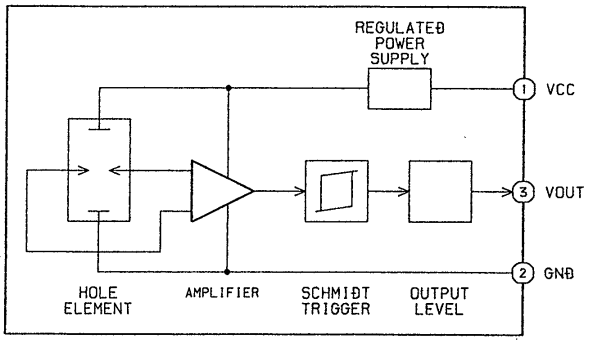
IC, HA12134A



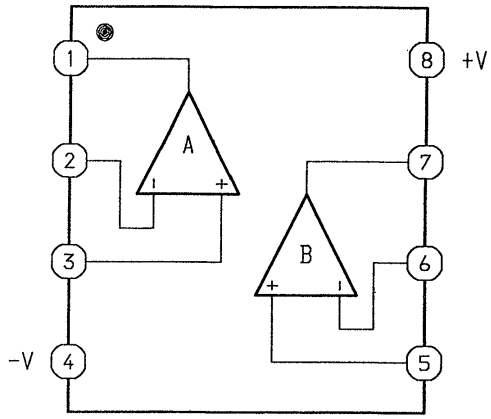
IC, TA2078P



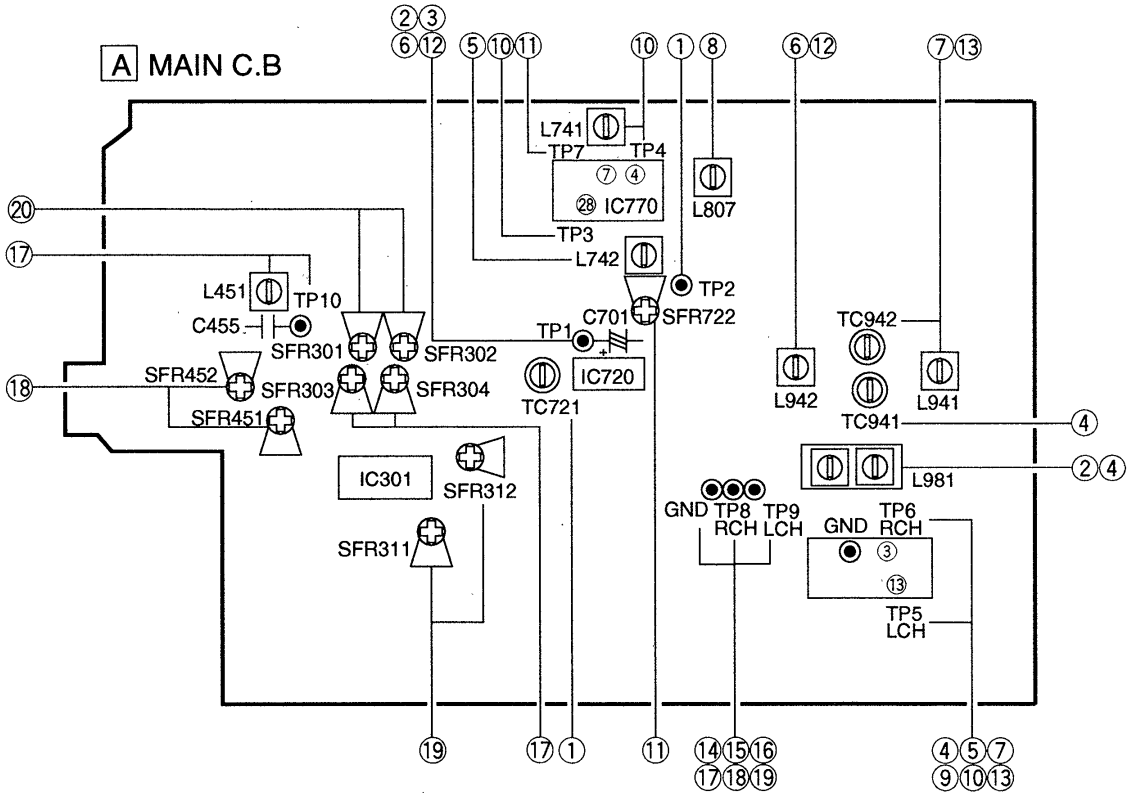
IC, DN6851

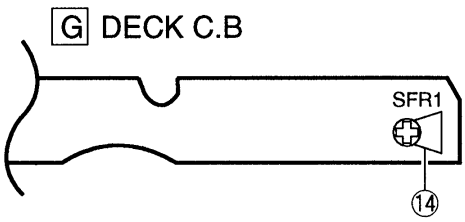


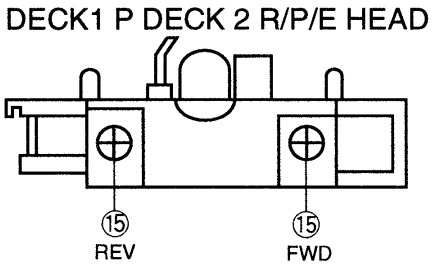
IC, NJM4558L



ELECTRICAL ADJUSTMENT







<TUNER SECTION>

1. Clock Frequency Adjustment
   Settings: · Test point : TP2
   · Adjustment location : TC721
   Method: Set to MW 1710kHz(HE,HR,HK), 1602kHz (EEZ) and adjust TC721 so that the test point becomes 2160kHz±0.01kHz (HE,HR,HK), 2052kHz±0.01kHz (EEZ).

2. MW VT Adjustment<HE,HR,HK>
   Settings: · Test point : TP1(VT)
   · Adjustment location : L981
   Method: Set to MW 1710kHz and adjust L981 so that the test point becomes 8.5V±0.05V. Then set to MW 530kHz and check that the test point is more than 0.3V.

3. MW VT Check<EEZ>
   Setting: · Test point : TP1(VT)
   Method: Set to MW 1602kHz and check that the test point is 6.8V±1.0V.

4. MW Tracking Adjustment
   Settings: · Test point : TP5(Lch), TP6(Rch)
   · Adjustment location :
   L981 ..... 600kHz
   TC941 ..... 1400kHz
   Method: <HE,HR,HK>
   Set up TC941 to center before adjustment. The level at 600kHz is adjusted to MAX by L981. Then the level at 1400kHz is adjusted to MAX by TC941.
   <EEZ>
   Set to MW 600kHz and adjust L981 so that the test point becomes maximum. Then set to MW 1400kHz and adjust TC941 so that the test point becomes maximum.

5. AM IF Adjustment
   Setting: · Test point : TP5(Lch), TP6(Rch)
   L742 ..... 999kHz(EEZ)
   L742 ..... 1000kHz(HE,HR,HK)
   Method: Set to MW 999kHz(EEZ),1000kHz(HE,HR,HK) and adjust L742 so that the test point becomes maximum.

6. SW VT Adjustment<HE,HR,HK>
Settings: · Test point : TP1(VT)
· Adjustment location : L942
Method: Set to SW 17.9MHz and adjust L942 so that the test point becomes 8.0V±0.05V.

7. SW Tracking Adjustment<HE,HR,HK>
Settings: · Test point : TP5(Lch), TP6(Rch)
· Adjustment location :
L941 ..... 5.95MHz
TC942 ..... 17.9MHz
Method: Set up TC942 to center before adjustment. The level at 5.95MHz is adjsuted to MAX by L941. Then the level at 17.9MHz is adjusted to MAX by TC942.

8. FM VT Adjustment
Settings: · Test point : TP1(TV)
· Adjustment location : L807
Method: Set to FM 87.5MHz and adjustL807 so that the test point is 1.7V±0.05V.

9. FM Tracking Check
Setting: Test point : TP5(Lch), TP6(Rch)
Method: Check that the test point is 4±6dB(HE,HR,HK), 9±6dB(EEZ) and distortion is less than 3% at FM 98.0MHz.

10.DC Balance/MONO Distortion Adjustment
Settings: · Test point : TP3,TP4 (DC Balance)
TP5(Lch), TP6(Rch) (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%.

11.Auto Stop Level Adjustment
Settings: · Test point : TP7
· Adjustment location : SFR722
· Input level : 18dB(HE,HR,HK)
· Input level : 20dB(EEZ)
Method: Set to FM 98.0MHz and adjust voltage low (about 0.01V) by SFR722. After that voltage hgih(about 7.0V) out by 2dB down.

12.LW VT Adjustment<EEZ>
Settings: · Test point : TP1(VT)
· Adjustment location : L942
Method: Set to LW 144kHz and adjust L942 that the test point becomes 1.50V±0.05V.

13.LW Tracking Adjustment<EEZ>
Settings: · Test point : TP5(Lch), TP6(Rch)
· Adjustment location :
L941 ..... 144kHz
TC942 ..... 290kHz
Method: Set up TC942 to center before adjustment. The level at 144kHz is adjsuted to MAX by L941. Then the level at 290kHz is adjusted to MAX by TC942.

<TAPE SECTION>
14.Tape Speed Adjustment
Settings: · Test tape : TTA-100
· Test point : TP8,TP9
· Adjustment location : SFR1
Method: Play back the test tape by DECK 2 and adjust SFR1 so that the frequency counter reads 3000Hz±5Hz.

15.Head Azimuth Adjustment
Settings: · Test tape : TTA-300
· Test point : TP8,TP9
· 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. Next, perform on each FWD PLAY and REV PLAY mode.

16.PB Sensitivity Response Check (DECK1, DECK2)
Settings: · Test tape : TTA-300
· Test point : TP8,TP9
Method: Play back the 315Hz and 10kHz signals of the test tape and check that the output ratio of the 10kHz signal is with respect to that of the 315Hz signal is 2dB.

17.PB Sensitivity Adjustment (DECK1, DECK2)
Settings: · Test tape : TTA-200
· Test point : TP8,TP9
· Adjustment location :(DECK1)
SFR301 (Lch)
SFR302 (Rch)
(DECK2)
SFR303 (Lch)
SFR304 (Rch)
Method: Play back the test tape and adjust SFRs so that the output level of the test point becomes 300mV.

18.REC/PB Frequency Response Adjustment
Settings: · Test tape : TTA-602
· Test point : TP8,TP9
· Input signal : 1kHz/10kHz (LINE IN)
· Adjustment location :SFR451 (Lch)
SFR452 (Rch)
Method: Apply a 1kHz signal and REC mode. Then adjust OSC attenuator so that the output level at the TP8,TP9 becomes 210mV. Record and play back the 1kHz and 10kHz signal and adjust SFRs so that the output level of 10kHz signal becomes 0dB±0.5dB with respect to that of the 1kHz signal.

19.REC/PB Sensitivity Adjustment <EEZ>
Settings: · Test tape : TTA-602
· Test point : TP8,TP9
· Input signal : 1kHz/10kHz (LINE IN)
· Adjustment location :SFR311 (Lch)
SFR312 (Rch)
Method: Apply a 1kHz signal and REC mode. Then adjust OSC attenuator so that the output level at the TP8,TP9 becomes 21mV. Record and play back the 1kHz signal and adjust SFRs so that the output level is 21mV±0.5dB.

20.Bias OSC Frequency Adjustment
Settings: · Test tape : TTA-601
· Test point : TP10(C455)
· Adjustment location : L451
Method: Set to to the REC mode. Adjust L451 so that the frequency counter of the test point becomes minimum.

PRACTICAL SERVICE FIGURE

TUNER SECTION

<FM SECTION>

S/N 50dB Quieting sensitivity:	35dB±5dB (87.5 / 98.0 / 108.0MHz)
Signal to noise ratio:	More than 64dB(98.0MHz)
Distortion:	Less than 2.0%(98.0MHz)
Stereo separation:	More than 25dB(98.0MHz) (HE,HR,HK)
	More than 20dB(98.0MHz) (EEZ)
Intermediate frequency:	10.7MHz

<MW SECTION>

Sensitivity:	58dB±6dB(603kHz)
(S/N 20dB)	56dB±6dB(999/1404kHz)
Distortion:	Less than 1.5%(999kHz)
Stereo separation:	More than 12dB(1000kHz)
Intermediate frequency:	450kHz

<SW SECTION> (HE,HR,HK)

Sensitivity:	37～45dB(5.95MHz)
(S/N 20dB)	30～38dB(12MHz)
	30～38dB(17.97MHz)
Distortion:	More than 1.5%(12MHz)
Intermediate frequency:	450kHz

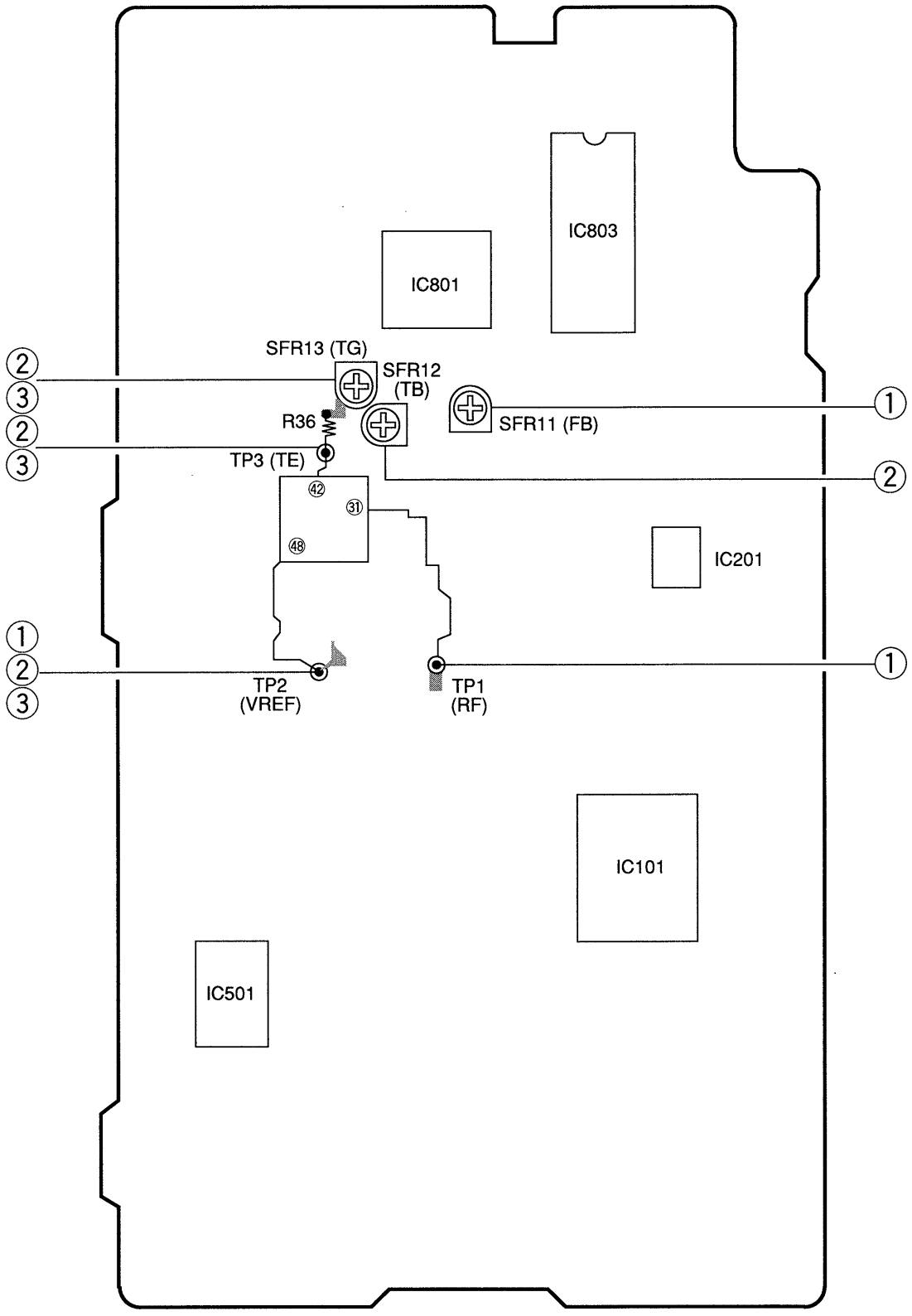
<LW SECTION> (EEZ)

Sensitivity:	68dB±5dB(144kHz)
(S/N 20dB)	65dB±5dB(198/290kHz)
Distortion:	Less than 1.5%(198kHz)
Intermediate frequency:	450kHz

TAPE SECTION

Tape speed:	3000Hz±45Hz
Wow & flutter:	Less than 0.4%(RMS)
Take-up torque:	25～55g-cm(FWD, REV)
F.F torque:	75～180g-cm
Rew torque:	75～180g-cm
Back tension:	2.0～7.0g-cm
PB Output level:	2.6V±3dB(HE,HR,HK)
	2.7V±3dB(EEZ)
REC / PB Output level:	2.0V±3dB(SP OUT)
Distortion(REC / PB):	Less than 3.0%(NORM,CrO_2)
Nois level(PB):	Less than 15mV(HE,HR,HK)
	Less than 8mV(EEZ)
	(DOLBY NR ON/OFF
	CrO_2, Vol MAX.)
	Less than 20mV(HE,HR,HK)
	Less than 12mV(EEZ)
	(DOLBY NR ON/OFF
	NORM, Vol MAX.)
Nois level(REC / PB):	Less than 15mV(HE,HR,HK)
	Less than 9mV(EEZ)
	(DOLBY NR ON/OFF CrO_2)
	Less than 20mV(HE,HR,HK)
	Less than 13mV(EEZ)
	(DOLBY B NR ON/OFF NORM)
Crosstalk:	More then 60dB(1kHz, 0VU)
Erasing ratio:	More then 60dB(125Hz)
Channel separation:	More then 40dB(1kHz, 0VU)
Test tape:	NORMAL TTA-602
	CrO_2 TTA-610

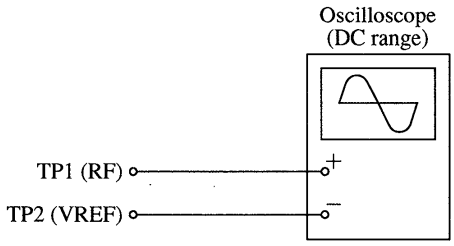
A 3CD C.B


IC803
IC801
SFR13 (TG)
SFR12 (TB)
SFR11 (FB)
R36
TP3 (TE)
42
31
48
IC201
TP2 (VREF)
TP1 (RF)
IC101
IC501
2
3
2
3
1
2
1
2
3
1

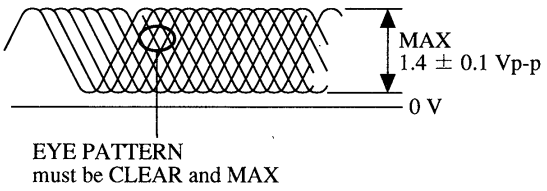
Note: Connect a probe (10: 1) of the oscilloscope or the frequency counter to a test point.

1. Focus Bias Adjustment

Make the focus bias adjustment when replacing and repairing the optical block.

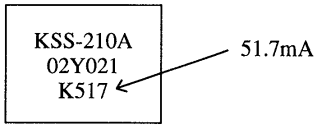


1) Connect an oscilloscope to test points TP1 (RF) and TP2 (VREF).
2) Turn on the power switch.
3) Insert test disc TCD-782 (YEDS-18) and play back the second composition.
4) Adjust SFR11 so that RF signal of test point TP1 (RF) is MAX and CLEARREST.



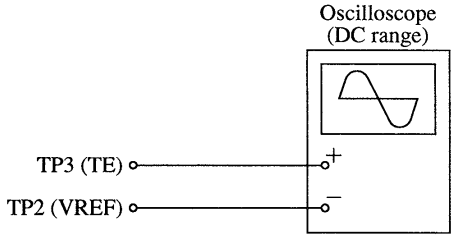
VOLT/DIV : 0.5 V
TIME/DIV : 1 μ S

Note: The current of the laser signal can be checked with the voltages on both sides of R28 (10Ω). The difference for the specified value shown on the lavel must be within ± 6.0mA.

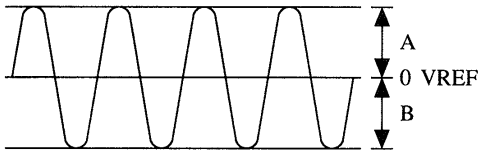


$$\text{Laser current Iop} = \frac{\text{Voltage across R28}}{10\Omega}$$

2. Tracking Balance Adjustment



1) Connect an oscilloscope to test points TP3 (TE) and TP2 (VREF).
2) Turn on the power switch.
3) Insert test disc TCD-782 (YEDS-18) and press the PLAY button.
4) Connect the intermediate point of SFR13 to TP2 (VREF).
5) Adjust SFR12 so that the waveform on the oscilloscope is vertically symmetrical as shown in the figure below.
6) After the adjustment is completed, remove the connected lead wires from the terminals.



A = B

VOLT/DIV : 200mV
TIME/DIV : 1mS

3. Tracking Gain Adjustment

A servo analyzer is necessary in order to perform this adjustment exactly. However, this gain has a margin, so even if it is slightly off, there is no problem. Therfore, do not perform this adjustment.
Focus/tracking gain determines the pick-up follow-up (vertical and horizontal) relative to mechanical noise and mechanical shock when 2-axis device operates. However, as these reciprocate, the adjustment is at the point where both are satisfied.

- When gain is raised, the noise increases when the 2-axis device operates.
- When gain is lowered, it is more susceptible to mechanical shock and skipping occurs more easily.

When the gain adjustment is off, the symptoms below appear.

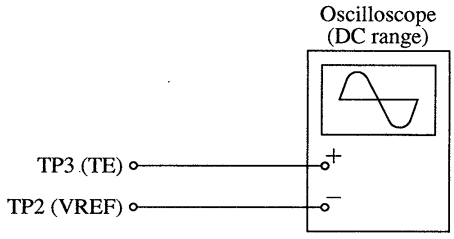
Symptoms \ Gain	(Focus)	Tracking
● The time until music starts becomes longer for STOP→▶PLAY or automatic selection (⏮, ⏭ buttons pressed.) (Normally takes about 2 seconds.)	low	low or high
● Music does not start and disc continues to rotate for STOP →▶PLAY or automatic selection (⏮, ⏭ buttons pressed.)	—	low
● Disc stops to rotate shortly after STOP→▶PLAY.	low or high	—
● Sound is interrupted during PLAY. Or time counter display stops.	—	low
● More noises during the 2-axis device operation.	high	high

The following is simple adjustment method.

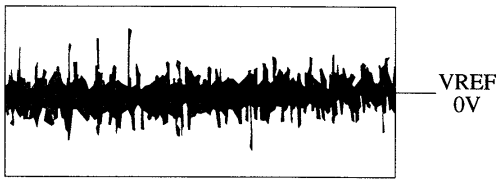
— Simple adjustment —

Note: Since the exact adjustment cannot be performed, remember the positions of the controls before the performing the adjustment. If the positions after the simple adjustment are only a little different, return the controls to the original position.

Procedure:



1) Keep the set horizontal. (If the set is not kept horizontally, this adjustment cannot be performed due to the gravity against the 2-axis device.)
2) Insert test disc TCD-782 (YEDS-18) and play back the second composition.
3) Connect an oscilloscope to TP3 (TE), TP2 (VREF) of the CD C.B.
4) Adjust SFR13 so that the waveform appears as shown in the figure below. (tracking gain adjustment)

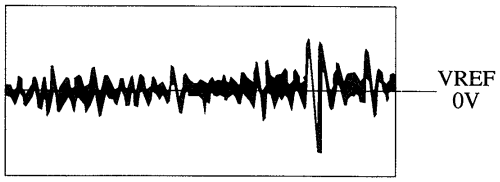


VOLT/DIV: 50 mV
TIME/DIV: 1 mS

● Incorrect example

Low tracking gain

The fundamental wave appears as compared with the waveform adjusted.



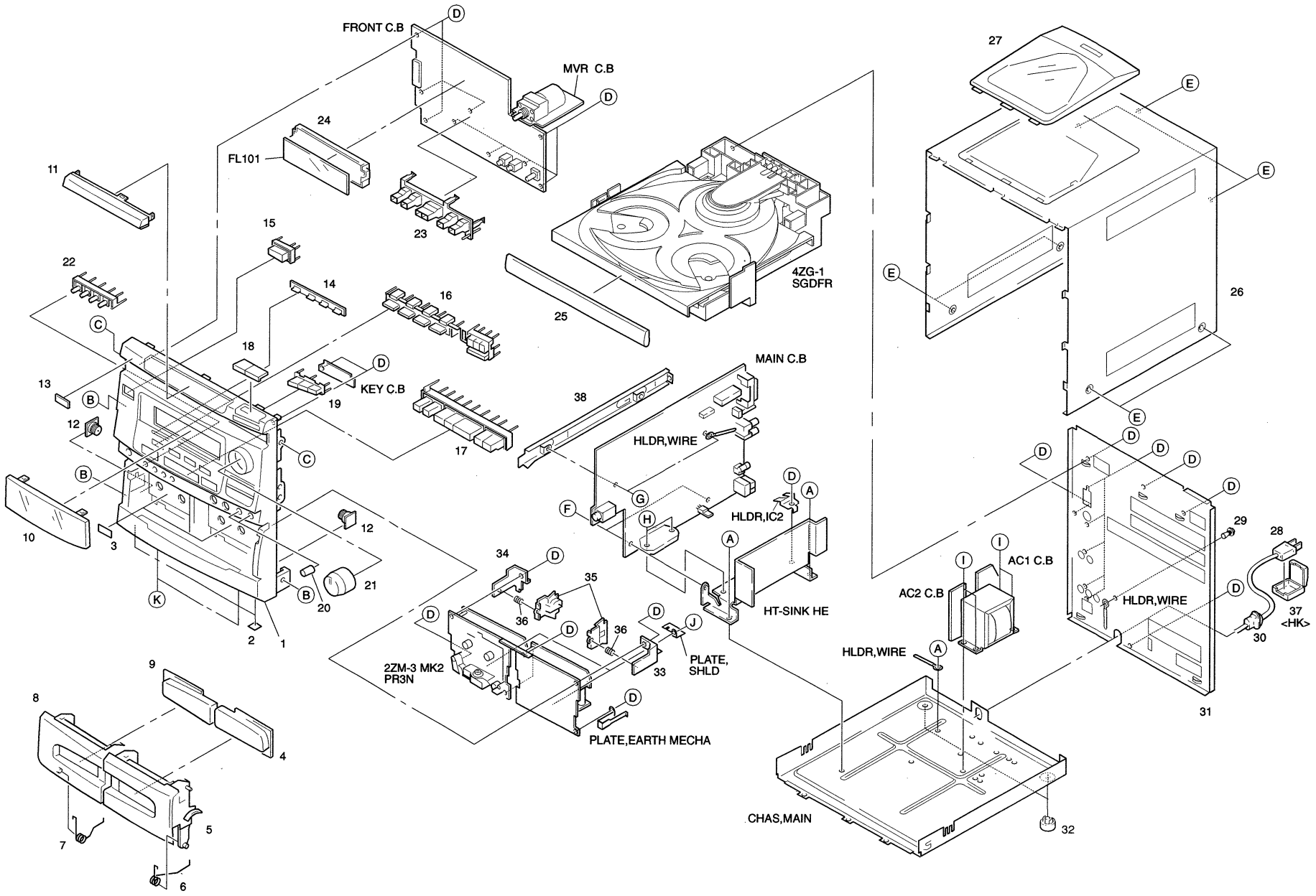
VOLT/DIV: 50 mV
TIME/DIV: 1 mS

High tracking gain

The frequency of the fundamental wave is higher than that in low gain.

VOLT/DIV: 50 mV
TIME/DIV: 1 mS

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”.

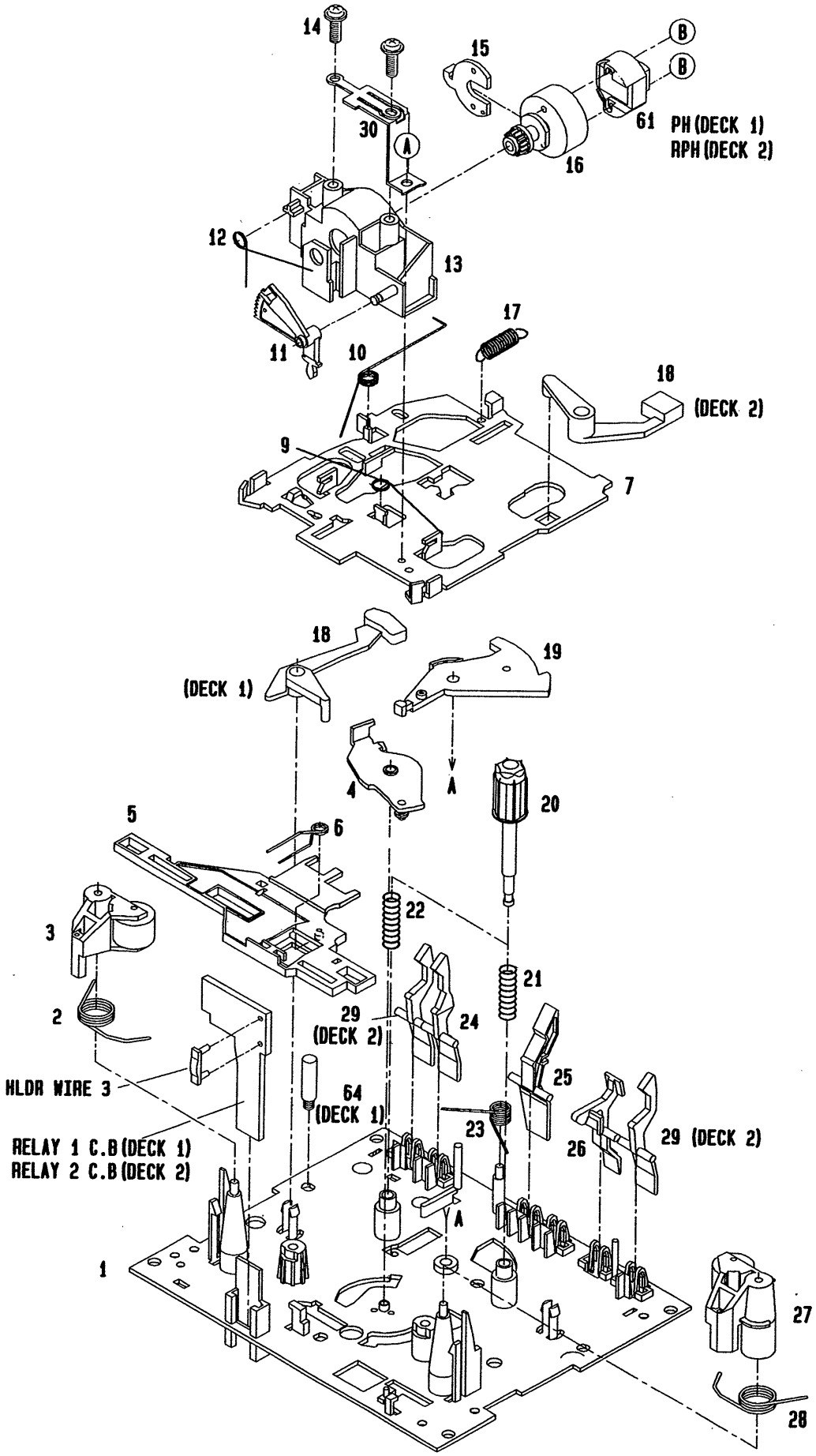
REF. NO	PART NO.	カンリ NO.	DESCRIPTION
1	85-NFH-013-019		CAB,FR EZ<EEZ>
1	85-NFH-001-019		CAB,FR HE<HE,HK,HR>
2	80-VT1-202-019		FELT,12.5-15.5-2
3	81-532-080-019		LBL,CASS-COMPT
4	85-NE8-016-019		WINDOW,CASS R
5	85-NE8-004-019		BOX,CASS R<HE,HK,HR>
5	85-NE8-030-019		BOX,CASS R E<EEZ>
6	82-NF5-219-019		SPR-T,EJECT 2 (SIN)
7	82-NF5-218-019		SRT-T,EJECT 1 (SIN)
8	85-NE8-003-019		BOX,CASS L<HE,HK,HR>
8	85-NE8-029-019		BOX,CASS L E<EEZ>
9	85-NE8-015-019		WINDOW,CASS L
10	85-NE8-013-019		WINDOW,DISPLAY
11	85-NE8-014-019		WINDOW,CD
12	87-063-165-019		OIL-DMPR 150
13	82-NE6-067-019		BADGE AIWA 30N
14	85-NF7-020-019		IND,FN
15	85-NE8-005-019		KEY,POWER
16	85-NF7-009-019		KEY,ASP
17	85-NF7-010-010		KEY,PLAY
18	85-NF7-007-119		KEY,OPEN
19	85-NF7-006-019		KEY,CD
20	85-NE8-011-019		KNOB,MIC
21	85-NE8-012-019		KNOB,VOL
22	85-NF7-011-019		KEY,VF
23	85-NF7-201-019		GUIDE,PLAY
24	82-NF7-210-010		GUIDE,FL
25	85-NFH-018-019		PANEL,TRAY<HE,HK,HR>
25	85-NFH-020-019		PANEL,TRAY E<EEZ>
26	85-NF5-007-019		CAB,STEEL
27	85-NF5-031-019		WINDOW,TOP
⚠ 28	87-050-079-019		AC CORD ASSY,E
29	87-084-077-010		NYLON RIVET
30	87-085-185-010		BUSHING,AC CORD E
31	85-NFH-009-019		PANEL,REAR EEZBNM<EEZ>
31	85-NFH-002-019		PANEL,REAR HEJBNM<HE>
31	85-NFH-015-019		PANEL,REAR HKJBNM<HK>
31	85-NFH-003-019		PANEL,REAR HRJBNM<HR>
32	87-085-221-019		FOOT,H 13.5
33	82-NF5-227-019		HLDR,LOCK 2N
34	82-NF5-226-019		HLDR LOCK 1N
35	82-NF5-229-019		PLATE,LOCK
36	82-NF5-228-019		SPR-C,LOCK
37	87-099-811-018		PLUG,ADPTR CONV(K)<HK>
38	85-NF5-208-019		HLDR,PCB S
A	87-067-688-019		BVTT+3-6
B	87-591-094-419		QIT+3-6 GOLD
C	87-721-097-419		QT2+3-12 GLD
D	87-067-703-019		BVT2+3-10 (W/O SLOT)
E	87-067-641-019		UTT2+3-8 W/O SLOT BLK
F	87-067-633-019		BVT2+3-8 W/CONVEX
G	87-078-084-019		BVTT+3-6 W,CONVEX
H	87-067-581-019		BVT2+3-15 W/O SLOT
I	87-078-019-019		S-SCREW,IT+4-6
J	87-571-032-419		VIT+2-3
K	87-067-716-010		BVTT+3-6 BLK

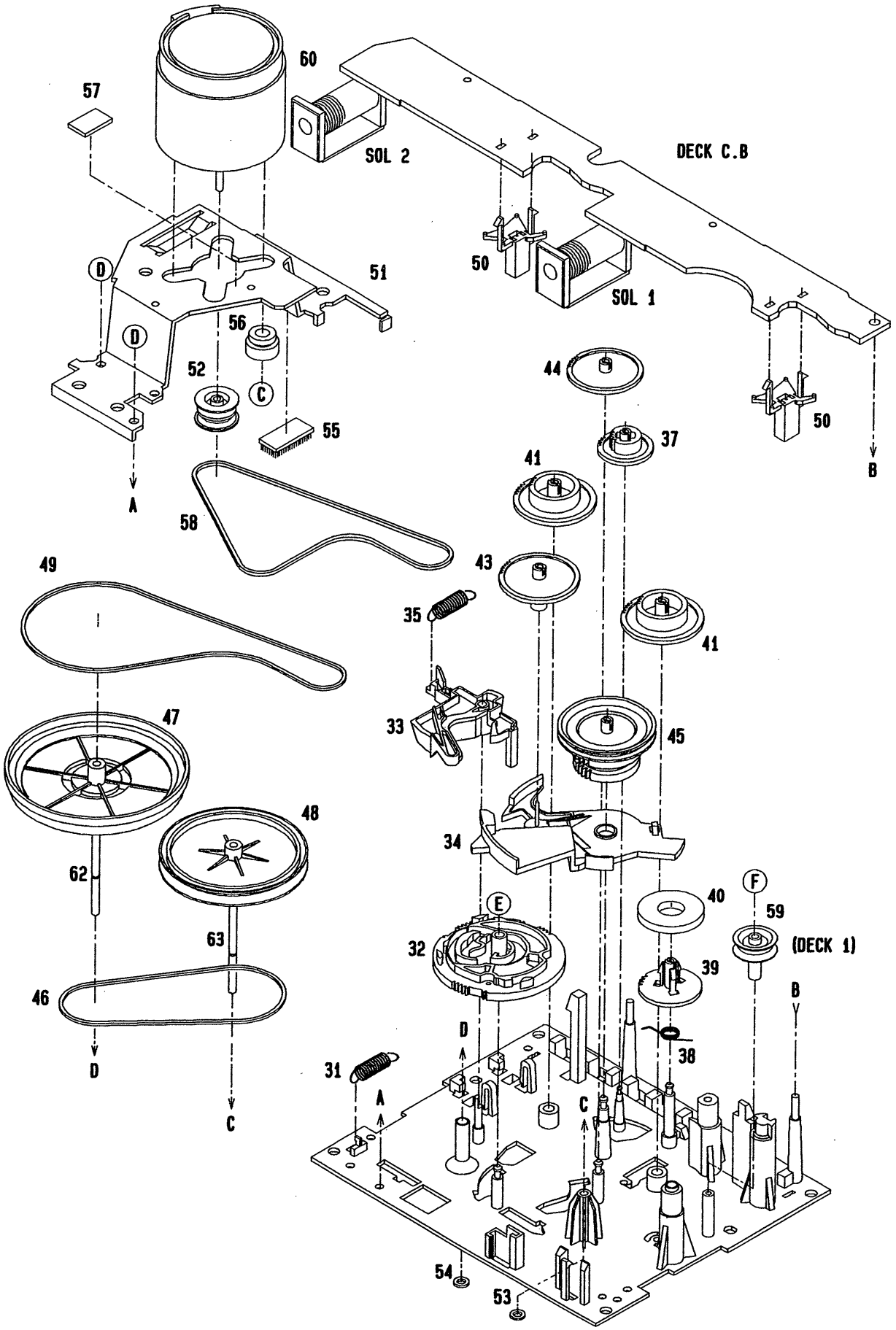
TAPE MECHANISM PARTS LIST 1 ／ 1

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".

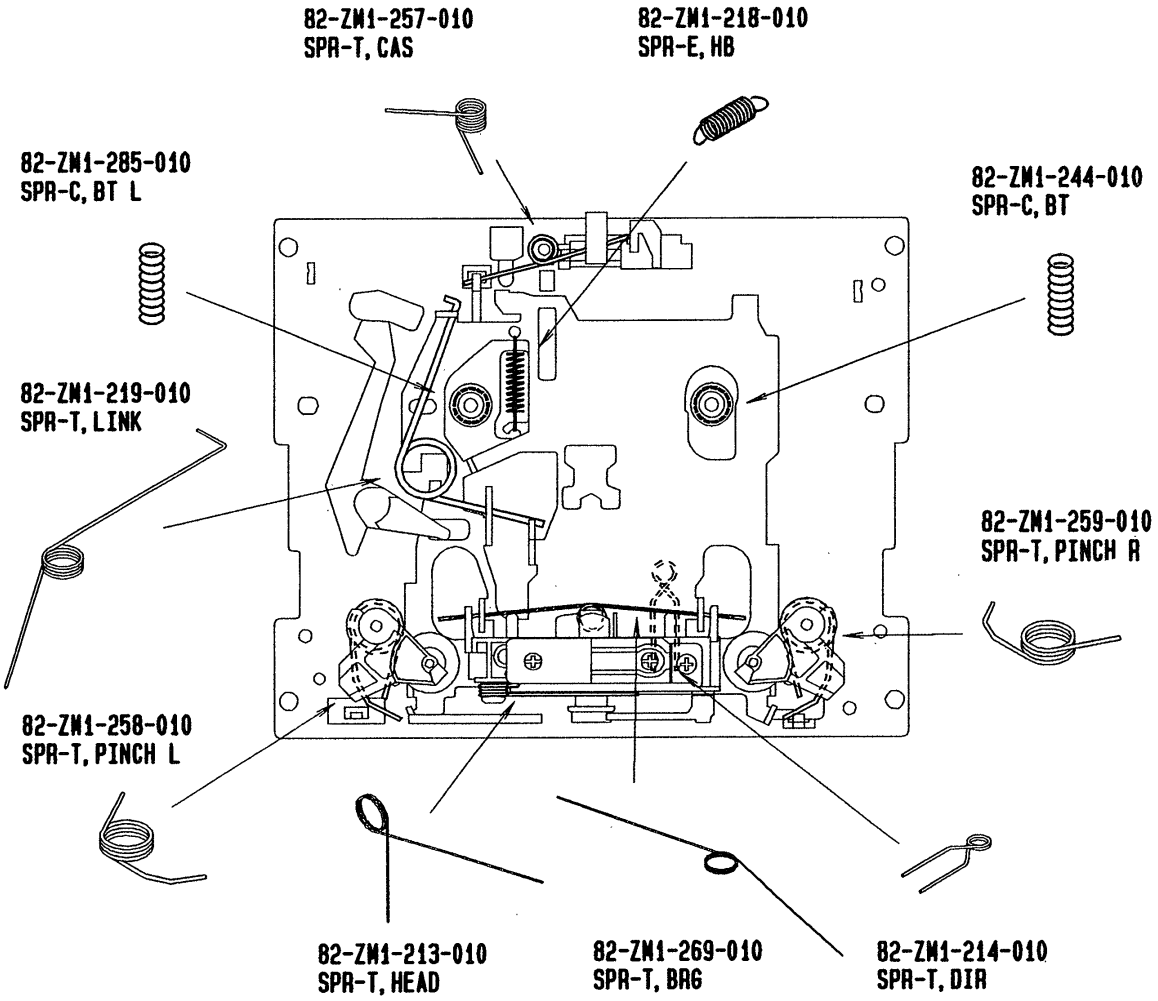
REF. NO	PART NO.	カンリ NO.	DESCRIPTION
1	82-ZM1-327-210		CHAS ASSY,RN (DECK 1)
1	82-ZM3-219-010		CHAS ASSY,PR6 (DECK 2)
2	82-ZM1-258-010		SPR-T,PINCH L
3	82-ZM1-248-110		LVR ASSY,PINCH L
4	82-ZM1-295-210		PLATE ASSY,LINK
5	82-ZM1-266-010		LVR,DIR
6	82-ZM1-214-010		SPR-T,DIR
7	82-ZM1-206-210		CHAS,HEAD
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-ZM1-314-110		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-ZM1-265-110		SPR-E,TRIG
37	82-ZM1-223-010		GEAR,PLAY
38	82-ZM1-322-019		SPR-T,FR60
39	82-ZM1-220-210		GEAR,IDLER
40	82-ZM1-316-010		RING MAGNET 3
41	82-ZM1-216-210		GEAR,REEL
43	82-ZM1-225-010		GEAR,FR
44	82-ZM1-226-010		GEAR,REW
45	82-ZM1-228-210		SLIP DISK ASSY
46	82-ZM1-328-010		BELT,FR 2 (DECK 1)
46	82-ZM1-335-010		BELT,FR 2 (DECK 2)
47	82-ZM1-238-610		FLY-WHL ASSY,R (DECK 2)
47	82-ZM3-210-510		FLY-WHL ASSY,R2 (DECK 1)
48	82-ZM1-235-310		FLY-WHL ASSY,L (DECK 2)
48	82-ZM3-208-410		FLY-WHL ASSY,L2 (DECK 1)
49	82-ZM3-206-010		BELT,R
50	82-ZM1-245-210		HLDR,IC
51	82-ZM3-215-010		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	82-ZM1-308-110		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	87-046-398-010		HEAD,PH YK50P-BS409(PH)
61	87-046-399-010		HEAD,RPH YK56R-BS409(RPH)
62	82-ZM1-312-010		CAPSTAN N 2.2-41.7
63	82-ZM1-313-010		CAPSTAN N 2-41.5
64	82-ZM3-216-019		SHAFT T COUPLER N
A	82-ZM1-315-010		S-SCREW,GVIDE TAPE
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	82-ZM1-597-019		PW,2.15-6.8-0.4 SLT
F	87-067-972-010		PW,1.05-3-0.25 SLT

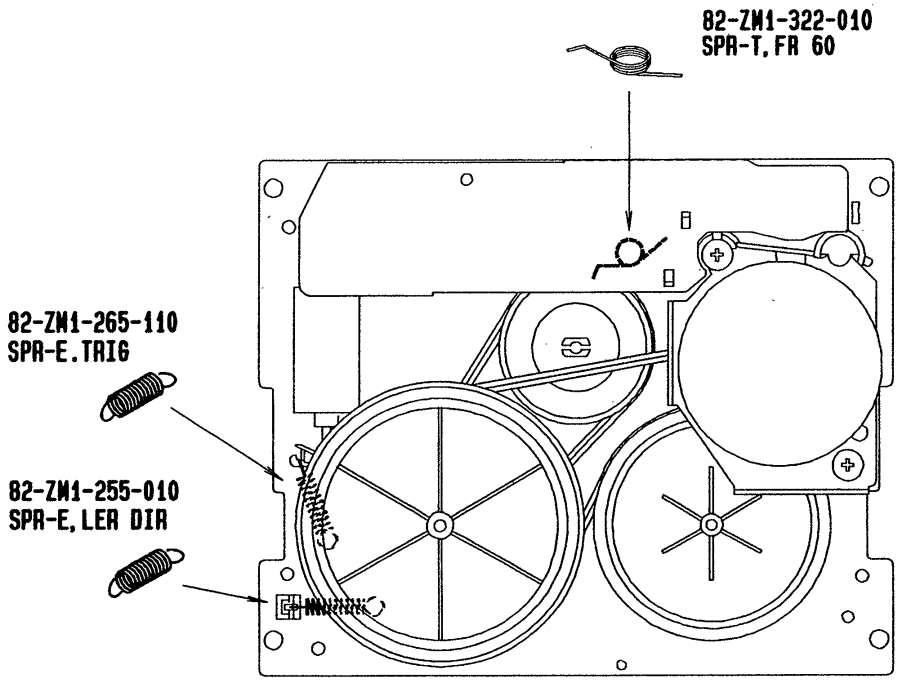
TAPE MECHANISM EXPLODED VIEW 1 / 1



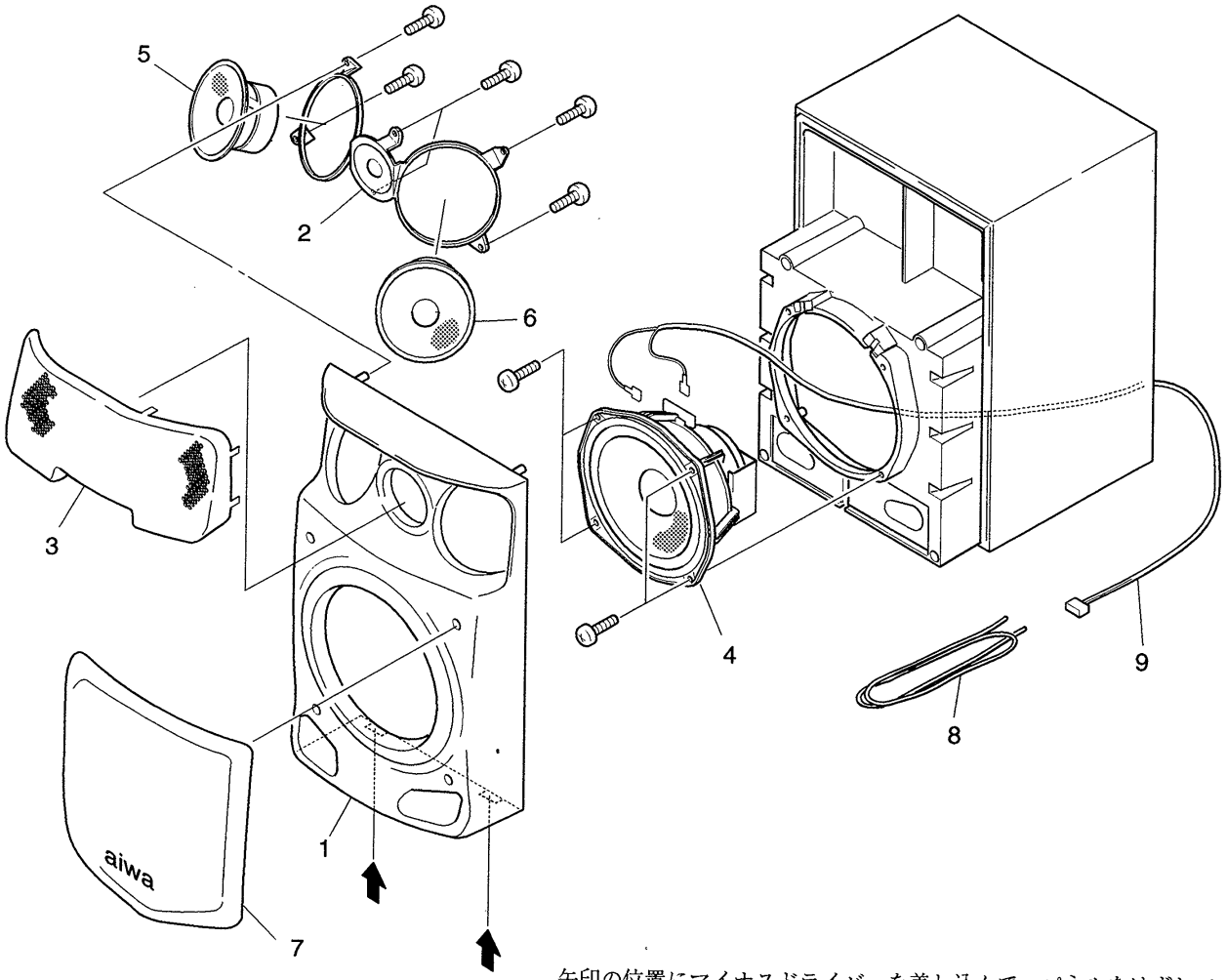

60
57
SOL 2
DECK C.B
50
SOL 1
51
D
56
52
C
55
44
37
50
41
58
A
B
49
43
35
41
33
45
47
48
34
62
F
40
59
(DECK 1)
E
32
39
63
B
46
D
38
31
A
C
54
53

SPRING APPLICATION POSITION





SPEAKER EXPLODED VIEW 1 / 1



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	85-NS6-001-019		PANEL FR
2	85-NS5-011-019		ADAPTOR ASSY
3	85-NS6-010-019		SPEAKER GRILL
4	85-NS6-602-019		SPEAKER WOOFER
5	83-NS8-606-019		SPEAKER MID
6	83-NS8-608-019		SPEAKER
7	85-NS6-011-019		GRILL FRAME ASSY
8	85-NS6-611-019		SPEAKER CORD Y/B
9	83-NS5-613-010		SPEAKER CORD ASSY

■ 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	85-NFH-905-019		IB<EEZ>
1	85-NFH-902-019		IB,H-ECA(M)<HE,HK,HR>
2	85-NF7-641-019		RC,RC-T503
3	87-050-050-019		CORD-1.5M PIN-PIN M
4	87-006-240-019		AM LOOP ANT CON(KO)<HE,HK,HR>
4	87-006-225-019		AM LOOP ANT NC2<EEZ>
5	87-043-115-01B		ANT,FEEDER FM<HE,HK,HR>
5	87-043-106-019		FM,WIRE ANT (Z)<EEZ>
6	87-043-095-019		ANTENNA WIRE<HE,HK,HR>
6	81-ED1-024-019		DM-H15BYUBNCS<EEZ>
7	87-050-072-018		CORD,EURO CABLE<EEZ>
7	87-099-789-019		PLUG,ADPTR IR44<HE,HR>

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

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

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

931261, 750038

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Tokyo Japan

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Printed in Singapore