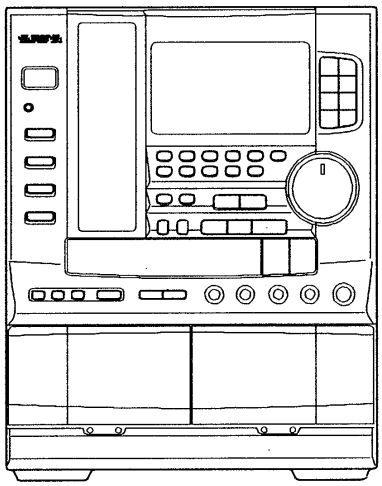
aiwa

aiwa SERVICE

NSX-V150M
NSX-V150MG



COMPACT DISC
STEREO CASSETTE RECEIVER

- BASIC TAPE MECHANISM:2ZM-3MK2-PR1
- BASIC CD MECHANISM:5ZG-2B2B/B2GB
- TYPE:HR,HE,HK,LH,EE,EEZ,EZ,U.K
- TYPE: HR,HE(150MG)

SERVICE MANUAL

改 定 版
REVISION PUBLISHING

● このサービスマニュアルはシンプル版 (S/M Code No. 09-957-101-80T)の改定版です。
差し替えて使用してください。

● This Service Manual is the "Revision Publishing" and replaces "Simple Manual" (S/M Code No. 09-957-101-80T).

SYSTEM	CENTER UNIT	SPEAKER	REMOTE CONTROLLER
NSX-V150M	CX-NV150M	SX-NV150M	RC-T509
NSX-V150MG	CX-NV150MG	SX-NV150M	RC-T509

S/M Code No. 09-959-114-00T

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SPECIFICATIONS

150MG, 150M HE, HR, HK MODELS:

Main unit CX-NV150M/CX-NV150MG

FM tuner section

Tuning range	87.5 MHz to 108 MHz
Usable sensitivity(IHF)	13.2 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

SW tuner section

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

Amplifier section

Power output	HE, HK: 80 W + 80 W (6 ohms, T.H.D. 10 %, 1 kHz) HR: Rated 65 W + 65 W (6 ohms, T.H.D. 1 %, 1 kHz) Reference 80 W + 80 W (6 ohms, T.H.D. 10 %, 1 kHz)
Total harmonic distortion	0.1 % (40 W, 1 kHz, 6 ohms, DIN-AUDIO)
Inputs	VIDEO/AUX: 150 mV adjustable MIC 1, MIC 2: 1 mV (10 kohms)
Outputs	LINE OUT: 200 mV VIDEO OUT (CX-NV150MG only): 1.0 Vp-p (75 ohms) SUPER WOOFER: 2.45 V SPEAKERS: accepts speakers of 6 ohms or more SURROUND SPEAKERS: accepts speakers of 16 ohms or more PHONES (stereo jack): accepts headphones of 32 ohms or more

Cassette deck section

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

Compact disc player section

Laser	Semiconductor laser (λ = 780 nm)
D-A converter	1 bit dual
Signal-to-noise ratio	85 dB (1 kHz, 0 dB)
Harmonic distortion	0.03 % (1 kHz, 0 dB)
Wow and flutter	Unmeasurable
Video signal (CX-NV150MG only)	NTSC/PAL color format

SPEAKER SYSTEM SX-NV150

Cabinet type	3 way, bass reflex (Magnetism sealed type)
Speaker	Woofer: 140 mm (5⅝ in.) cone type Tweeter: 60 mm (2⅜ in.) cone type Super tweeter: 20 mm (13/16 in.) ceramic type
Impedance	6 ohms
Output sound pressure level	87 dB/W/m
Dimensions (W × H × D)	220 × 334 × 245 mm (8¾ × 13¼ × 9¾ in.)
Weight	3.3 kg (7 lbs. 4 oz)

GENERAL

Power requirements	120 V/220 V – 230 V/240 V AC switchable, 50/60 Hz
Power consumption	150 W
Dimensions of main unit (W × H × D)	260 × 333.5 × 352 mm (10¼ × 13¼ × 13⅞ in.)
Weight of main unit	9.7 kg (21 lbs. 6 oz)

- Design and specifications are subject to change without notice.
- Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation.
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- The word "BBE" and the "BBE symbol" are trademarks of BBE Sound, Inc.
  Under license from BBE Sound, Inc.

150M LH, U MODELS:

Main unit CX-NV150M

FM tuner section

Tuning range	87.5 MHz to 108 MHz
Usable sensitivity(IHF)	13.2 dBf
Antenna terminals	75 ohms (unbalanced)

AM tuner section

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

Amplifier section

Power output	U: FTC RULE 50 watts per channel, Min. RMS at 6 ohms, from 40 Hz to 12 kHz, with no more than 1 % Total Harmonic Distortion LH: 80 W + 80 W (6 ohms, T.H.D. 10 %, 1 kHz)
Total harmonic distortion	U: 0.1 % (25 W, 1 kHz, 6 ohms, DIN-AUDIO) LH: 0.1 % (40 W, 1 kHz, 6 ohms, DIN-AUDIO)
Inputs	VIDEO/AUX: 150 mV adjustable MIC 1, MIC 2: 1 mV (10 kohms)
Outputs	LINE OUT: 200 mV SUPER WOOFER: 2.45 V SPEAKERS: accepts speakers of 6 ohms or more SURROUND SPEAKERS: accepts speakers of 16 ohms or more PHONES (stereo jack): accepts headphones of 32 ohms or more

Cassette deck section

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

Compact disc player section

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

SPEAKER SYSTEM SX-NV150

Cabinet type	3 way, bass reflex (Magnetism sealed type)
Speaker	Woofer: 140 mm ($5^5/_8$ in.) cone type Tweeter: 60 mm ($2^3/_8$ in.) cone type Super tweeter: 20 mm ($^{13}/_{16}$ in.) ceramic type
Impedance	6 ohms
Output sound pressure level	87 dB/W/m
Dimensions (W × H × D)	220 × 334 × 245 mm ($8^3/_4$ × $13^1/_4$ × $9^3/_4$ in.)
Weight	3.3 kg (7 lbs. 4 oz)

GENERAL

Power requirements	U: 120 V AC, 60 Hz. LH: 120 V/220 V – 230 V/240 V AC switchable, 50/60 Hz
Power consumption	U: 90 W LH: 150 W
Dimensions of main unit (W × H × D)	260 × 333.5 × 352 mm ($10^1/_4$ × $13^1/_4$ × $13^7/_8$ in.)
Weight of main unit	9.7 kg (21 lbs. 6 oz)

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  Under license from BBE Sound, Inc.

150M EE, K, EZ, EEZ MODELS:

Main unit CX-NV150M

FM tuner section

Tuning range	87.5 MHz to 108 MHz
Usable sensitivity(IHF)	13.2 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	Rated: 50 W + 50 W (6 ohms, T.H.D. 1 %, 1 kHz/DIN 45500) Reference: 65 W + 65 W (6 ohms, T.H.D. 10 %, 1 kHz/DIN 45324) DIN MUSIC POWER: 105 W + 105 W
Total harmonic distortion	0.1 % (40 W, 1 kHz, 6 ohms, DIN-AUDIO)
Inputs	VIDEO/AUX: 150 mV adjustable MIC 1, MIC 2: 1 mV (10 kohms)
Outputs	LINE OUT: 200 mV SUPER WOOFER: 2.45 V SPEAKERS: accepts speakers of 6 ohms or more SURROUND SPEAKERS: accepts speakers of 16 ohms or more PHONES (stereo jack): accepts headphones of 32 ohms or more

Cassette deck section

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

Compact disc player section

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

SPEAKER SYSTEM SX-NV150

Cabinet type	3 way, bass reflex (Magnetism sealed type)
Speaker	Woofer: 140 mm (5⅝ in.) cone type Tweeter: 60 mm (2⅜ in.) cone type Super tweeter: 20 mm (13/16 in.) ceramic type
Impedance	6 ohms
Output sound pressure level	87 dB/W/m
Dimensions (W × H × D)	220 × 334 × 245 mm (8¾ × 13¼ × 9¾ in.)
Weight	3.3 kg (7 lbs. 4 oz)

GENERAL

Power requirements	230 V AC, 50 Hz
Power consumption	300 W
Dimensions of main unit (W × H × D)	260 × 333.5 × 352 mm (10¼ × 13¼ × 13⅞ in.)
Weight of main unit	9.7 kg (21 lbs. 6 oz)

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- Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation.
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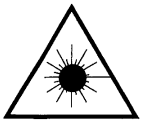
PROTECTION OF EYES FROM LASER BEAM DURING SERVICING

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 laserstråling 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.

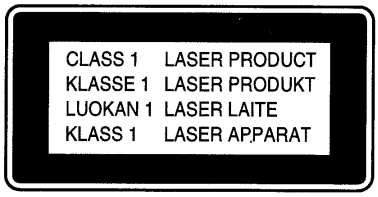
VARNING!
Om apparaten används på annat sätt än vad som specificeras i denna bruksanvising, kan användaren utsättas för osynling laserstrålning, som överskrider gränsen för laserklass 1.

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 laserstråling 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.



DISASSEMBLY INSTRUCTIONS

1. How to Remove the CD Mechanism Block

1) Remove the two screws (Ⓑ×10) and remove the PANEL, REAR in the direction of the arrow ①.
2) Remove the 12P cable at its end of the ELV C.B.
3) Remove the 12P cable at its end of the CD C.B.
4) Remove the 6P cable at its end of the CD C.B.
5) Remove the 2P cable at its end of the SNSR T C.B.
6) Remove the two screws (Ⓖ×1, Ⓗ×1) and pull the CD MECHANISM BLOCK upward in the direction of the arrow ②.

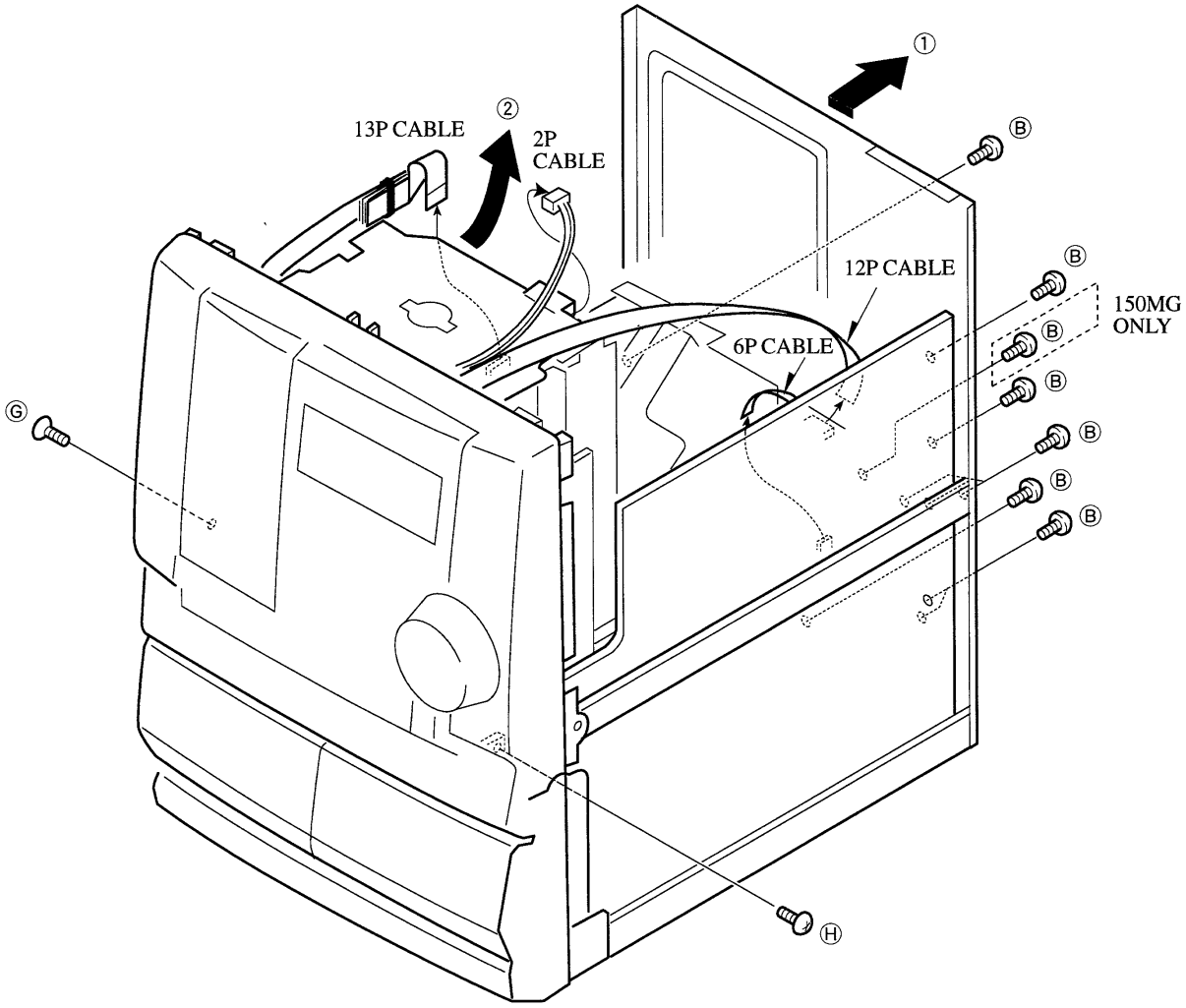


Fig-1

2. How to remove the MAGAZINE BLOCK

1) Confirm that the LVR, PUSH are not pinched by the MAGAZINE. Then lift up the ELEVATOR BLOCK in the direction of arrow ①. (Fig-2)
2) Remove the two screws (Ⓢ×2) and remove the CHAS, TOP in the direction of arrow ②.
3) Remove eight screws (L: Ⓢ×4), R: Ⓢ×4) and remove the MAGAZINE L and MAGAZINE R.

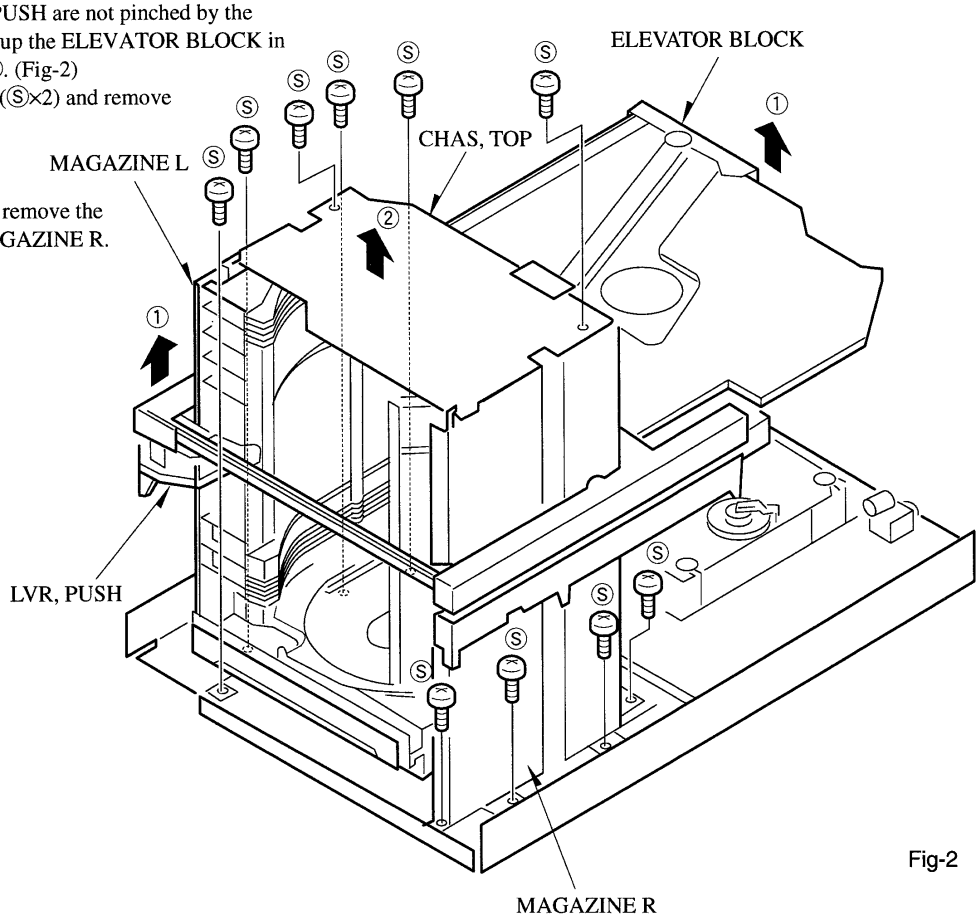


Fig-2

3. How to remove the ELEVATOR BLOCK

1) Remove the two screws (Ⓜ×2) and remove the COVER, WIRE.
2) Remove the screw (Ⓓ×1) and remove the ILLUM C.B.
3) Remove the five screws (Ⓝ×5). Then disassemble the CHAS T ASSY and CHAS B ASSY.

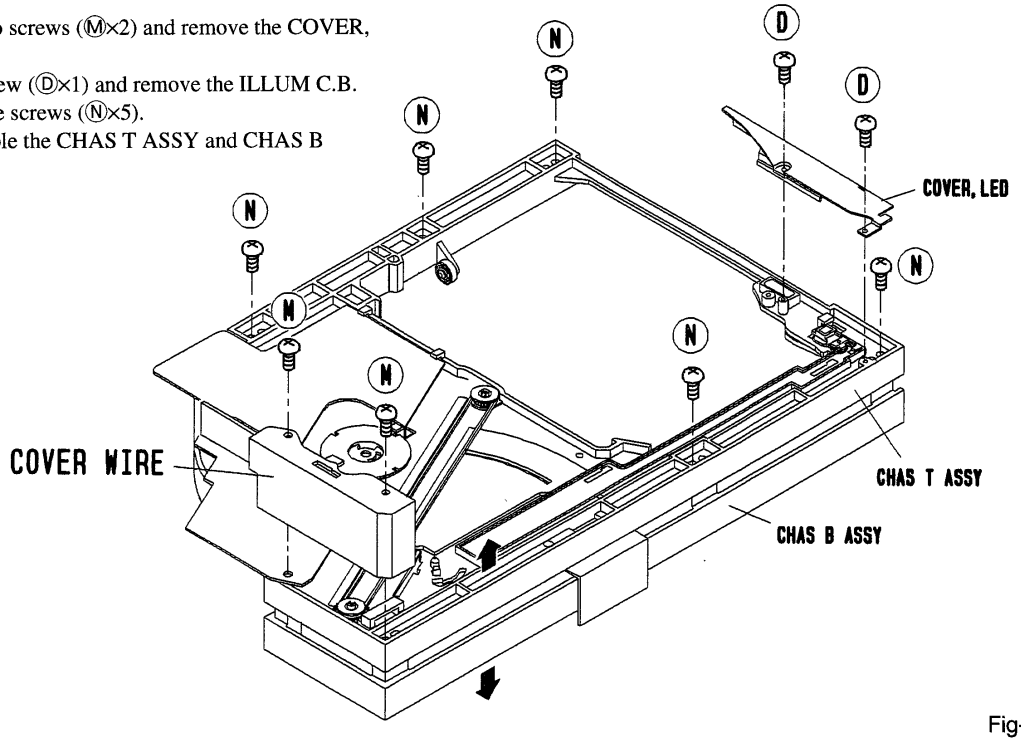


Fig-3

4. How to remove the TRAY BLOCK.

1) Open the TRAY. (Fig-4).
2) Remove two screws (Ⓡ×2).
3) Remove the 5-pin cable from the SNSR B C.B.
4) Move the TRAY BLOCK in the direction of arrow and remove it from the L-shaped slot.

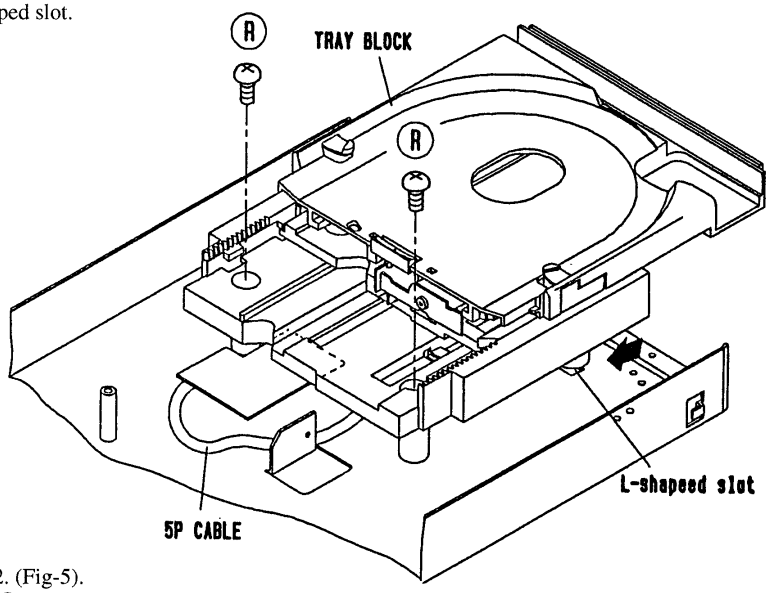


Fig-4

5) Remove the GEAR, T3×2. (Fig-5).
6) Remove the two screws (Ⓐ×2) and remove the PLATE, STOP TRAY.
7) Move the TRAY in the direction of arrow ① and remove it.
8) Move the TRAY, SLIDE in the direction of arrow ② and remove them.

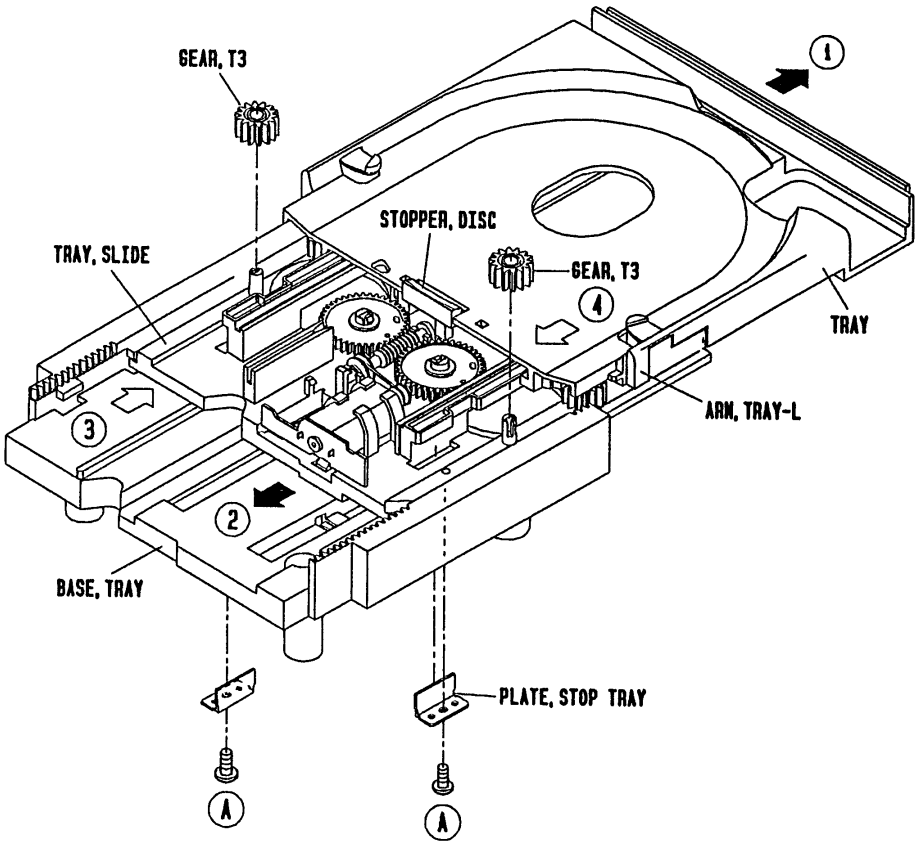


Fig-5

5. Cautions when re-assembling.

5-1. Cautions when re-assembling the ELEVATOR BLOCK.

1) Before assembling, align "A" and "B" shown in Fig-6, and adjust the rotating position of the SW, MODE. Then adjust position of "C" and "D", and adjust their phase.
2) When attaching the ELEVATOR BLOCK to the MAGAZINE BLOCK, confirm that the ELEVATOR BLOCK is inserted in horizontally level.

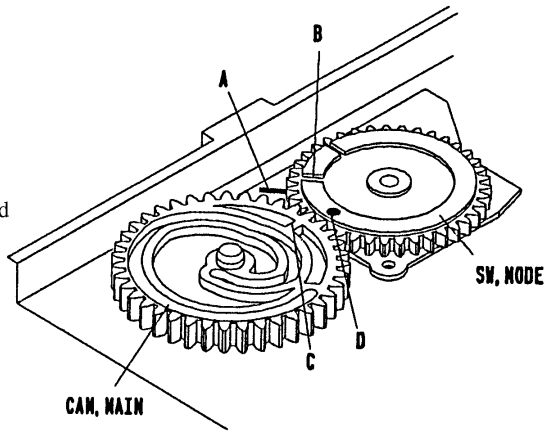


Fig-6

5-2. Cautions when re-assembling the TRAY BLOCK.

1) Align the GEAR, T1 and point "A" of the GEAR, PULLEY-T as shown in Fig-7.
(When viewed from the top, slots of the GEAR, T1 and that of the TRAY, SLIDE must be aligned.)
2) Insert the TRAY, SLIDE on top of the BASE, TRAY in the direction of arrow ③. (Fig-5)
3) Align the respective gears positions as described in step1). While holding the TRAY's STOPPER, DISC up, insert the TRAY in the direction of arrow ④ while pushing ARM, TRAY-L outside. (Fig-5)
4) Attach the PLATE, STOP TRAY.
5) Pull out the TRAY as far as it goes out and attach the GEAR, T3×2.
6) Give enough play to the 5-pin cable as shown in Fig-8.
7) Insert the TRAY and confirm that ⓐ portion of the BASE, TRAY and TRAY SLIDE can be visible through the TRAY opening when viewed from the bottom. (Fig-9).

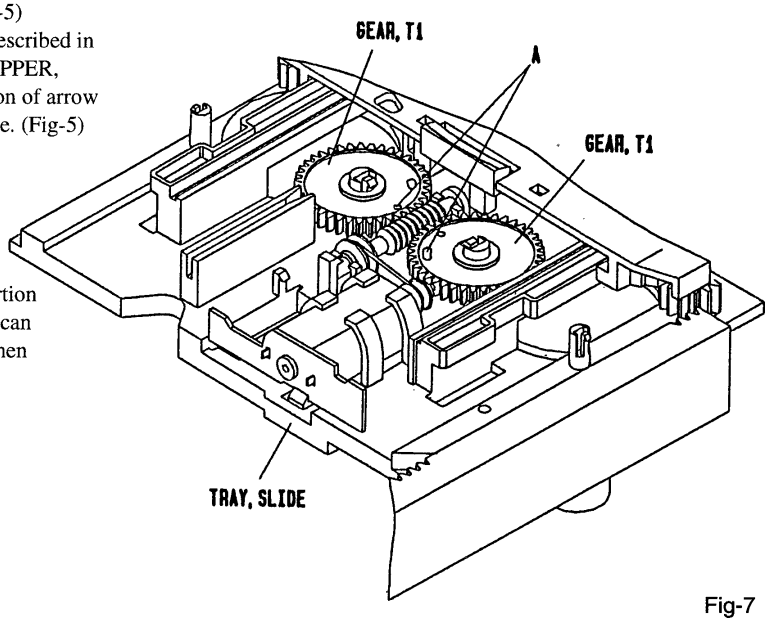


Fig-7

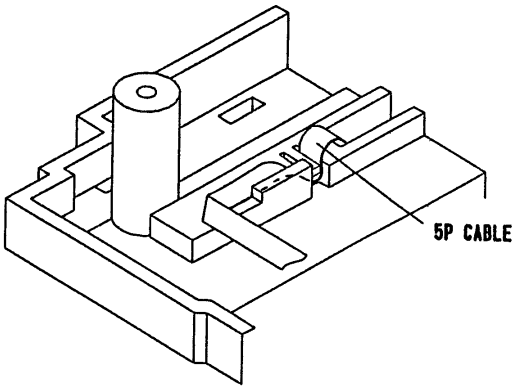


Fig-8

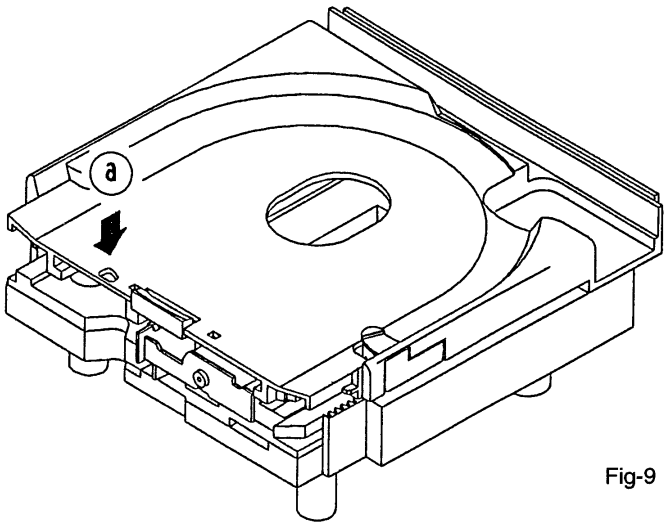


Fig-9

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
	87-070-134-010		IC,TA2065F
	87-070-336-010		IC,TC9284BF
	87-017-888-080		IC,NJM4558MD
	87-070-314-010		IC,STK405-120
	87-070-287-010		IC,BA6897S
	87-070-121-010		IC,HA12185NT
	87-017-375-080		IC,TC4094BF
	87-002-877-080		IC,BA10393F
	87-070-184-040		IC,M65846FP-600D
	87-001-982-010		IC,TA7291S
	87-001-874-010		IC,HA12134A
	87-070-272-010		IC,TA2078P
	87-017-673-010		IC,BA3837
	87-017-803-010		IC,LC32464P-80<150MG HE,150MG HR>
	87-017-022-080		IC,NJM 2068 M-D(T1)
	87-017-449-010		IC,XR-1071CP
	87-017-802-010		IC,LC7872E<150MG HE,150MG HR>
	87-017-374-010		IC,TC4094BP
	87-017-194-010		IC,PLT104
	87-002-272-080		IC,TC4052BF
	87-027-666-010		IC,TC4052BP
	87-070-127-010		IC,LC72131
	87-017-714-010		IC,LA1836
	87-070-232-010		IC,BA3834S
	87-070-280-010		IC,SMA 7029M LF1054
	87-017-675-080		IC,M65840FP<150MG HE,150MG HR>
	85-NF2-610-010		IC,UPD78045BGF-012
	87-070-083-010		IC,GP1U281X
TRANSISTOR			
	87-026-463-080		TR,2SA933S
	87-026-234-080		C-TR,DTC143EK
	89-213-702-010		TR,2SB1370E
	89-109-352-080		TR,2SA935 Q
	87-026-610-080		TR,KTC3198GR
	89-327-125-080		C-TR,2SC2712GR
	89-332-665-080		TR,2SC3266GR
	89-337-221-380		C-TR,2SC3722K(R/S/E)
	87-026-210-080		C-TR,DTC144EK
	89-111-625-080		C-TR,2SA1162GR
	89-110-155-080		TR,2SA1015GR
	89-333-266-080		C-TR,2SC3326B
	89-318-155-080		TR,2SC1815GR
	87-026-232-080		C-TR,DTA144WK
	87-026-658-010		FET 2SJ176
	89-510-940-010		FET 2SK1094
	89-112-965-080		TR,2SA1296GR
	89-503-655-680		FET,2SK365GR/BL
	87-026-224-080		C-TR,DTC143XK
	89-333-317-080		TR,2SC3331 T
	89-327-126-080		C-TR,2SC2712BL<K,EZ,EEZ,EE>
	89-109-521-080		TR,2SA952K
	89-406-555-080		TR,2SD655E
	87-026-236-080		C-TR,DTC124EK
	87-026-214-080		TR,DTA114YS
	87-026-211-080		C-TR,DTA144EK
	89-327-124-080		C-TR,2SC2712Y
	89-213-293-080		TR,2SB1329R
	89-327-143-080		TR,2SC2714(O)
	87-026-269-080		TR,DTA114ES<EXCEPT LH,U,K,EZ,EEZ,EE>
	87-026-235-080		C-TR,DTC114EK
	87-026-226-080		C-TR,DTA143EK
	89-113-187-880		TR,2SA1318TU
	89-109-332-380		TR,2SA933RS<EXCEPT LH,U,K,EZ,EEZ,EE>
	87-026-462-080		TR,2SC1740S(RS)<EXCEPT LH,U>
	89-320-011-080		TR,2SC2001K<K,EZ,EEZ,EE>
	89-505-434-580		C-FET,2SK543(4/5)
DIODE			
	87-002-225-010		DIODE DBF 40C-K10
	87-017-978-080		DIODE,1N4003
	87-020-027-080		C-DIODE,1SS184
	87-020-125-080		C-DIODE,1SS181
	87-020-465-080		DIODE,1SS133
	87-017-174-080		ZENER,HZS11A3L
	87-017-146-080		ZENER,HZS30-2
	87-001-731-080		ZENER,HZS6C2L
	87-017-091-080		ZENER,HZS5C1
	87-001-290-080		ZENER,HZS6B1L
	87-020-331-080		C-DIODE,DAN202K
	87-001-559-080		DIODE,1SS131
	87-070-178-090		DIODE,1N5402-BD54
	87-001-408-080		DIODE GP 15B
	87-017-086-050		ZENER,HZS5A2
	87-017-148-080		ZENER,HZS6A1L
	87-020-330-080		C-DIODE,DAP202K
MAIN C.B			
C100	87-014-167-010		CAP,M 1-50V TF
C101	87-010-453-090		CAP,E 4700-25
C102	87-010-453-090		CAP,E 4700-25
C104	87-010-235-080		CAP,E 470-16 SME
C105	87-010-381-080		CAP,E 330-16 SME
C106	87-016-285-080		CAP,E 47-100 SME
C107	87-010-406-080		CAP,E 22-50 SME
C108	87-010-405-080		CAP,E 10-50 SME
C109	87-010-263-080		CAP,E 100-10
C112	87-010-382-080		CAP,E 22-25 SME
C113	87-010-403-080		CAP,E 3.3-50 SME
C114	87-010-382-080		CAP,E 22-25 SME
C115	87-010-196-080		C-CAP,S 0.1-25 F
C117	87-010-196-080		C-CAP,S 0.1-25 F
C118	87-010-196-080		C-CAP,S 0.1-25 F
C119	87-010-196-080		C-CAP,S 0.1-25 F
C124	87-010-382-080		CAP,E 22-25 SME
C126	87-016-520-090		CAP,E 3300-65
C127	87-016-520-090		CAP,E 3300-65
C128	87-010-196-080		C-CAP,S 0.1-25 F
C129	87-010-196-080		C-CAP,S 0.1-25 F
C130	87-010-196-080		C-CAP,S 0.1-25 F
C131	87-010-196-080		C-CAP,S 0.1-25 F
C151	87-010-196-080		C-CAP,S 0.1-25 F
C152	87-010-260-080		CAP,E 47-25 SME
C201	87-018-203-080		CAP,TC-U 8200P-16 Y<K,EZ,EEZ,EE>
C202	87-018-203-080		CAP,TC-U 8200P-16 Y<K,EZ,EEZ,EE>
C203	87-010-197-080		C-CAP,S 0.01-25 B<K,EZ,EEZ,EE>
C204	87-010-197-080		C-CAP,S 0.01-25 B<K,EZ,EEZ,EE>
C213	87-010-402-080		CAP,E 2.2-50 SME
C214	87-010-402-080		CAP,E 2.2-50 SME
C215	87-010-184-080		C-CAP,S 3300P-50 B
C216	87-010-184-080		C-CAP,S 3300P-50 B
C217	87-010-406-080		CAP,E 22-50 SME
C218	87-010-406-080		CAP,E 22-50 SME
C219	87-010-182-080		C-CAP,S 2200P-50 B
C220	87-010-182-080		C-CAP,S 2200P-50 B
C221	87-010-400-080		CAP,E 0.47-50 SME
C222	87-010-400-080		CAP,E 0.47-50 SME
C223	87-010-260-080		CAP,E 47-25 SME
C224	87-010-260-080		CAP,E 47-25 SME
C227	87-018-209-080		CAP,TC-U 0.1-50 F
C230	87-018-209-080		CAP,TC-U 0.1-50 F
C260	87-018-134-080		CAP,TC-U 0.01-16 Y<K,EZ,EEZ,EE>
C297	87-010-404-080		CAP,E 4.7-50 SME<EXCEPT U>

REF. NO.	PART NO.	カンリ NO.	DESCRIPTION
C298	87-010-404-080		CAP,E 4.7-50 SME<EXCEPT U>
C303	87-012-157-080		C-CAP,S 330P-50 CH
C304	87-012-157-080		C-CAP,S 330P-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	87-010-196-080		C-CAP,S 0.1-25 F
C308	87-010-196-080		C-CAP,S 0.1-25 F
C311	87-010-198-080		C-CAP,S 0.022-25 B
C312	87-010-198-080		C-CAP,S 0.022-25 B
C313	87-010-181-080		C-CAP,S 1800P-50 B
C314	87-010-181-080		C-CAP,S 1800P-50 B
C315	87-010-179-080		C-CAP,S 1200P-50 B
C316	87-010-179-080		C-CAP,S 1200P-50 B
C317	87-012-142-080		C-CAP,S 0.33-16 F
C318	87-012-142-080		C-CAP,S 0.33-16 F
C319	87-012-141-080		C-CAP,S 0.22-16 F
C320	87-012-141-080		C-CAP,S 0.22-16 F
C321	87-010-196-080		C-CAP,S 0.1-25 F
C322	87-010-196-080		C-CAP,S 0.1-25 F
C324	87-010-260-080		CAP,E 47-25 SME
C325	87-010-370-080		CAP,E 330-6.3 SME
C326	87-018-209-080		CAP,TC-U 0.1-50 F
C327	87-010-178-080		C-CAP,S 1000P-50 B
C328	87-010-178-080		C-CAP,S 1000P-50 B
C335	87-010-805-080		C-CAP,S 1-16 F
C336	87-010-805-080		C-CAP,S 1-16 F
C351	87-012-154-080		C-CAP,S 150P-50 CH
C352	87-012-154-080		C-CAP,S 150P-50 CH
C361	87-018-134-080		CAP,TC-U 0.01-16 Y<K,EZ,EEZ,EE>
C451	87-012-140-080		C-CAP,S 470P-50 CH
C452	87-012-140-080		C-CAP,S 470P-50 CH
C453	87-010-178-080		C-CAP,S 1000P-50 B
C454	87-010-178-080		C-CAP,S 1000P-50 B<K,EZ,EEZ,EE>
C454	87-010-175-080		C-CAP,S 560P-50 SL<EXCEPT K,EZ,EEZ,EE>
C455	87-010-178-080		C-CAP,S 1000P-50 B<K,EZ,EEZ,EE>
C455	87-010-175-080		C-CAP,S 560P-50 SL<EXCEPT K,EZ,EEZ,EE>
C456	87-010-260-080		CAP,E 47-25 SME
C457	87-010-197-080		C-CAP,S 0.01-25 B
C458	87-010-183-080		C-CAP,S 2700P-50 B
C459	87-010-183-080		C-CAP,S 2700P-50 B
C460	87-010-183-080		C-CAP,S 2700P-50 B
C470	87-010-196-080		C-CAP,S 0.1-25 F
C501	87-010-179-080		C-CAP,S 1200P-50 B
C502	87-010-179-080		C-CAP,S 1200P-50 B
C504	87-012-155-080		C-CAP,S 180P-50 CH
C505	87-012-155-080		C-CAP,S 180P-50 CH
C515	87-010-545-080		CAP,E 0.22-50 SME
C516	87-010-545-080		CAP,E 0.22-50 SME
C519	87-010-196-080		C-CAP,S 0.1-25 F
C521	87-010-197-080		C-CAP,S 0.01-25 B
C522	87-010-318-080		C-CAP,S 47P-50 CH
C523	87-010-197-080		C-CAP,S 0.01-25 B
C524	87-010-400-080		CAP,E 0.47-50 SME
C530	87-010-194-080		C-CAP,S 0.047-25 F
C531	87-010-545-080		CAP,E 0.22-50 SME
C532	87-010-382-080		CAP,E 22-25 SME
C533	87-010-404-080		CAP,E 4.7-50 SME
C534	87-010-404-080		CAP,E 4.7-50 SME
C535	87-010-404-080		CAP,E 4.7-50 SME
C536	87-010-404-080		CAP,E 4.7-50 SME
C537	87-010-544-080		CAP,E 0.1-50
C538	87-010-384-080		CAP,E 100-25 SME
C539	87-012-142-080		C-CAP,S 0.33-16 F
C540	87-010-196-080		C-CAP,S 0.1-25 F
C541	87-010-196-080		C-CAP,S 0.1-25 F
C543	87-010-546-080		CAP,E 0.33-50 SME
C544	87-010-546-080		CAP,E 0.33-50 SME
C545	87-010-400-080		CAP,E 0.47-50 SME
C546	87-010-400-080		CAP,E 0.47-50 SME
C547	87-010-213-080		C-CAP,S 0.015-25 B<EXCEPT LH,U>
C547	87-010-198-080		C-CAP,S 0.022-25 B<LH,U>
C548	87-010-213-080		C-CAP,S 0.015-25 B<EXCEPT LH,U>
C548	87-010-198-080		C-CAP,S 0.022-25 B<LH,U>
C549	87-018-209-080		CAP,TC-U 0.1-50 F
C550	87-010-183-080		C-CAP,S 2700P-50 B
C551	87-010-182-080		C-CAP,S 2200P-50 B<EXCEPT LH,U>
C551	87-010-184-080		C-CAP,S 3300P-50 B<LH,U>
C552	87-010-182-080		C-CAP,S 2200P-50 B<EXCEPT LH,U>
C552	87-010-184-080		C-CAP,S 3300P-50 B<LH,U>
C557	87-010-178-080		C-CAP,S 1000P-50 B
C558	87-010-178-080		C-CAP,S 1000P-50 B
C597	87-010-404-080		CAP,E 4.7-50 SME
C598	87-010-404-080		CAP,E 4.7-50 SME
C601	87-010-401-080		CAP,E 1-50 SME
C602	87-010-405-080		CAP,E 10-50 SME
C603	87-010-101-080		CAP,E 220-16 SME
C605	87-015-627-080		C-CAP,1000P-50 B K
C606	87-010-178-080		C-CAP,S 1000P-50 B
C607	87-010-404-080		CAP,E 4.7-50 SME
C608	87-010-404-080		CAP,E 4.7-50 SME
C609	87-010-404-080		CAP,E 4.7-50 SME
C610	87-010-404-080		CAP,E 4.7-50 SME
C611	87-010-177-080		C-CAP,S 820P-50 SL
C612	87-010-177-080		C-CAP,S 820P-50 SL
C613	87-010-404-080		CAP,E 4.7-50 SME
C614	87-010-404-080		CAP,E 4.7-50 SME
C615	87-010-400-080		CAP,E 0.47-50 SME
C616	87-010-400-080		CAP,E 0.47-50 SME
C617	87-010-197-080		C-CAP,S 0.01-25 B
C618	87-010-197-080		C-CAP,S 0.01-25 B
C619	87-010-184-080		C-CAP,S 3300P-50 B
C620	87-010-184-080		C-CAP,S 3300P-50 B
C621	87-012-155-080		C-CAP,S 180P-50 CH
C622	87-012-155-080		C-CAP,S 180P-50 CH
C623	87-010-405-080		CAP,E 10-50 SME
C624	87-010-405-080		CAP,E 10-50 SME
C630	87-010-405-080		CAP,E 10-50 SME
C631	87-010-401-080		CAP,E 1-50 SME
C641	87-010-196-080		C-CAP,S 0.1-25 F
C642	87-015-785-080		C-CAP,0.1-25 F
C701	87-010-381-080		CAP,E 330-16 SME
C702	87-010-404-080		CAP,E 4.7-50 SME
C703	87-010-197-080		C-CAP,S 0.01-25 B
C704	87-010-197-080		C-CAP,S 0.01-25 B
C711	87-010-263-080		CAP,E 100-10
C712	87-018-209-080		CAP,TC-U 0.1-50 F
C721	87-010-311-080		C-CAP,S 12P-50 CH
C722	87-010-154-080		C-CAP,S 10P-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	87-010-196-080		C-CAP,S 0.1-25 F
C728	87-010-248-080		CAP,E 220-10 SME
C755	87-010-196-080		C-CAP,S 0.1-25 F
C756	87-010-197-080		C-CAP,S 0.01-25 B
C757	87-010-196-080		C-CAP,S 0.1-25 F
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	87-010-197-080		C-CAP,S 0.01-25 B<LH,U,K,EZ,EEZ,EE>
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	87-010-405-080		CAP,E 10-50 SME
C782	87-010-405-080		CAP,E 10-50 SME
C787	87-010-184-080		C-CAP,S 3300P-50 B
C788	87-010-184-080		C-CAP,S 3300P-50 B
C789	87-010-179-080		C-CAP,S 1200P-50 B

REF. NO.	PART NO.	カンリ NO.	DESCRIPTION
C790	87-010-179-080		C-CAP,S 1200P-50 B
C791	87-010-401-080		CAP,E 1-50 SME
C792	87-010-180-080		C-CAP,S 1500P-50 B<EXCEPT K,EZ,EEZ,EE>
C792	87-010-182-080		C-CAP,S 2200P-50 B<K,EZ,EEZ,EE>
C793	87-010-189-080		C-CAP,S 8200P-50 B
C794	87-010-408-080		CAP,E 47-50 SME
C795	87-010-194-080		C-CAP,S 0.047-25 F
C796	87-010-403-080		CAP,E 3.3-50 SME
C799	87-010-405-080		CAP,E 10-50 SME
C814	87-010-197-080		C-CAP,S 0.01-25 B
C816	87-018-134-080		CAP,TC-U 0.01-16 Y<LH,U>
C816	87-018-209-080		CAP,TC-U 0.1-50 F<EXCEPT LH,U>
C817	87-010-197-080		C-CAP,S 0.01-25 B
C818	87-010-197-080		C-CAP,S 0.01-25 B
C819	87-010-197-080		C-CAP,S 0.01-25 B
C820	87-010-260-080		CAP,E 47-25 SME
C821	87-010-197-080		C-CAP,S 0.01-25 B
C822	87-010-197-080		C-CAP,S 0.01-25 B
C823	87-010-197-080		C-CAP,S 0.01-25 B
C830	87-015-627-080		C-CAP,1000P-50 B K
C831	87-010-196-080		C-CAP,S 0.1-25 F
C832	87-018-209-080		CAP,TC-U 0.1-50 F
C851	87-010-805-080		C-CAP,S 1-16 F
C852	87-010-197-080		C-CAP,S 0.01-25 B
C853	87-010-152-080		C-CAP,S 8P-50 CH<LH,U>
C854	87-010-318-080		C-CAP,S 47P-50 CH<EXCEPT K,EZ,EEZ,EE>
C855	87-010-197-080		C-CAP,S 0.01-25 B<EXCEPT LH,U,K,EZ,EEZ,EE>
C860	87-010-197-080		C-CAP,S 0.01-25 B<EXCEPT K,EZ,EEZ,EE>
C860	87-010-196-080		C-CAP,S 0.1-25 F<K,EZ,EEZ,EE>
C870	87-018-134-080		CAP,TC-U 0.01-16 Y
C871	87-018-134-080		CAP,TC-U 0.01-16 Y
C872	87-018-119-080		CAP,TC-U 100P-50 B
C874	88-214-810-810		CAP,CER 0.01-50<EXCEPT K,EZ,HK,EE>
C901	87-010-401-080		CAP,E 1-50 SME<150MG HE,150MG HR>
C902	87-010-178-080		C-CAP,S 1000P-50 B<150MG HE,150MG HR>
C903	87-010-178-080		C-CAP,S 1000P-50 B<150MG HE,150MG HR>
C904	87-010-184-080		C-CAP,S 3300P-50 B<150MG HE,150MG HR>
C905	87-010-177-080		C-CAP,S 820P-50 SL<150MG HE,150MG HR>
C906	87-010-178-080		C-CAP,S 1000P-50 B<150MG HE,150MG HR>
C907	87-010-185-080		C-CAP,S 3900P-50 B<150MG HE,150MG HR>
C909	87-010-175-080		C-CAP,S 560P-50 SL<150MG HE,150MG HR>
C910	87-010-176-080		C-CAP,S 680P-50 SL<150MG HE,150MG HR>
C911	87-010-196-080		C-CAP,S 0.1-25 F<150MG HE,150MG HR>
C918	87-010-186-080		C-CAP,S 4700P-50 B<150MG HE,150MG HR>
C920	87-010-260-080		CAP,E 47-25 SME<150MG HE,150MG HR>
C921	87-010-384-080		CAP,E 100-25 SME<150MG HE,150MG HR>
C922	87-010-196-080		C-CAP,S 0.1-25 F<150MG HE,150MG HR>
C923	87-010-304-080		C-CAP,S 390P-50 CH<150MG HE,150MG HR>
C924	87-010-304-080		C-CAP,S 390P-50 CH<150MG HE,150MG HR>
C926	87-010-196-080		C-CAP,S 0.1-25 F<LH,U,K,EZ,EEZ,EE>
C941	87-010-312-080		C-CAP,S 15P-50 CH<EXCEPT LH,U,K,EZ,EEZ,EE>
C941	87-010-313-080		C-CAP,S 18P-50 CH<150MG HE,150MG HR>
C942	87-010-154-080		C-CAP,S 10P-50 CH<K,EZ,EEZ,EE>
C943	87-010-197-080		C-CAP,S 0.01-25 B<EXCEPT LH,U,K,EZ,EEZ,EE>
C944	87-014-051-080		CAP,PP 560P-100 J<EXCEPT LH,U,K,EZ,EEZ,EE>
C945	87-010-197-080		C-CAP,S 0.01-25 B<EXCEPT LH,U,K,EZ,EEZ,EE>
C947	87-010-401-080		CAP,E 1-50 SME
C949	87-014-050-080		CAP,PP 510P-100 J<K,EZ,EEZ,EE>
C950	87-010-322-080		C-CAP,S 100P-50 CH
C952	87-010-197-080		C-CAP,S 0.01-25 B<EXCEPT LH,U>
C953	87-018-134-080		CAP,TC-U 0.01-16 Y<EXCEPT LH,U,K,EZ,EEZ,EE>
C954	87-010-400-080		CAP,E 0.47-50 SME<EXCEPT LH,U,K,EZ,EEZ,EE>
C955	87-014-073-080		CAP,PP 4700P-100 J<EXCEPT LH,U,K,EZ,EEZ,EE>
C956	87-010-263-080		CAP,E 100-10<EXCEPT LH,U,K,EZ,EEZ,EE>
C957	87-010-313-080		C-CAP,S 18P-50 CH<K,EZ,EEZ,EE>
C958	87-010-197-080		C-CAP,S 0.01-25 B<K,EZ,EEZ,EE>
C960	87-010-544-080		CAP,E 0.1-50
C987	87-018-134-080		CAP,TC-U 0.01-16 Y
C990	87-010-197-080		C-CAP,S 0.01-25 B
C995	87-010-197-080		C-CAP,S 0.01-25 B
C999	87-010-196-080		C-CAP,S 0.1-25 F<EXCEPT LH,U,K,EZ,EEZ,EE>
CF801	87-008-423-010		CF,SFE10.7MS3G-A<K,EZ,EEZ,EE>
CF801	87-008-261-010		FLTR,SFE10.7MA5-A<EXCEPT K,EZ,EEZ,EE>
CF802	82-785-747-010		CF MS2GHY,R<K,EZ,EEZ,EE>
CF802	87-008-261-010		FLTR,SFE10.7MA5-A<EXCEPT K,EZ,EEZ,EE>
FC1	88-906-141-110		FF-CABLE,6P 1.25
FFE801	85-NF5-605-010		FE PACK 2 EX<EXCEPT K,EZ,EEZ,EE>
FFE801	85-NF5-604-010		FE PACK 4(AL)<K,EZ,EEZ,EE>
J250	87-099-678-010		JACK,6.3W/S BLK
J253	84-VP2-630-010		JACK,PIN 3P B.W.R
J254	87-033-232-010		TERMINAL,SP 4P R(JT)<EXCEPT K,EZ,EEZ,EE>
J254	87-033-236-010		TERMINAL,SP 4P R(JT)<K,EZ,EEZ,EE>
J652	87-009-394-010		JACK PIN 4P EARTH
J801	82-NF5-621-010		ANT TERM JBT0222<EXCEPT K,EZ,EEZ,EE>
J801	87-033-230-010		TERMINAL,ANT AJ-2016<K,EZ,EEZ,EE>
L201	87-003-383-010		COIL,1UH-S<K,EZ,EEZ,EE>
L202	87-003-383-010		COIL,1UH-S<K,EZ,EEZ,EE>
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
L701	81-631-643-010		COIL 1 POLE MPX
L702	81-631-643-010		COIL 1 POLE MPX
L741	87-006-253-010		COIL,FM DET N
L742	81-631-612-010		CF MT<EXCEPT LH,U,K,EZ,EEZ,EE>
L742	82-NT1-659-010		FLTR,CFAZ-450 2NT<LH,U,K,EZ,EEZ,EE>
L770	87-003-102-080		COIL,10UH
L832	87-003-098-080		COIL,2.2UH
L901	87-005-468-080		COIL,3.9UHJ FLR50<150MG HE,150MG HR>
L941	87-006-320-010		COIL,ANT LW(SG1)<K,EZ,EEZ,EE>
L941	87-006-319-010		COIL,ANT SW(SG1)<EXCEPT LH,U,K,EZ,EEZ,EE>
L942	87-007-338-010		COIL,OSC LW(SG1)<K,EZ,EEZ,EE>
L942	87-007-337-010		COIL,OSC SW(SG1)<EXCEPT LH,U,K,EZ,EEZ,EE>
L943	87-005-372-080		COIL,S 1MH<EXCEPT LH,U,K,EZ,EEZ,EE>
L944	87-005-372-080		COIL,S 1MH<EXCEPT LH,U,K,EZ,EEZ,EE>
L981	85-NF7-618-010		AM PACK 1,(SG1)<LH,U>
L981	85-NF7-619-010		AM PACK 2,(SG1)<K,EZ,EEZ,EE>
L981	85-NF7-620-010		AM PACK 3,(SG1)<EXCEPT LH,U,K,EZ,EEZ,EE>
R104	87-A00-004-090		RES,M/F 0.39-1W J<150MG HE,150MG HR>
R104	87-022-668-090		RES,M/F 0.47-1W J<EXCEPT 150MG HE,150MG HR>
R105	87-022-600-080		RES,M/F 0.1-2W J
R106	87-022-600-080		RES,M/F 0.1-2W J
R161	87-022-308-090		RES,M/F 1.2/1W J
R203	87-022-619-080		RES,M/F 0.47-3W J<EXCEPT U>
R204	87-022-619-080		RES,M/F 0.47-3W J<EXCEPT U>
R205	87-022-619-080		RES,M/F 0.47-3W J<EXCEPT U>
R206	87-022-619-080		RES,M/F 0.47-3W J<EXCEPT U>
R271	87-025-465-080		RES,NF 0.47-1/4WJ
R272	87-025-465-080		RES,NF 0.47-1/4WJ
RY101	87-045-361-010		RELAY,DH12D2-OS(M)-2
RY102	87-045-382-010		RELAY,QUAZ-SH-112L
SFR301	87-024-174-080		SFR,33K DIA6 V
SFR302	87-024-174-080		SFR,33K DIA6 V
SFR303	87-024-174-080		SFR,33K DIA6 V
SFR304	87-024-174-080		SFR,33K DIA6 V
SFR305	87-024-175-080		SFR,47K DIA6 V
SFR306	87-024-175-080		SFR,47K DIA6 V
SFR451	87-024-175-080		SFR,47K DIA6 V
SFR452	87-024-175-080		SFR,47K DIA6 V
SFR722	87-024-170-080		SFR,3.3K DIA6 V
TC942	87-011-252-080		TRIMER,10P LAR<EXCEPT LH,U,K,EZ,EEZ,EE>
TC942	87-011-253-080		TRIMER,30P LAR<K,EZ,EEZ,EE>
VR651	82-NF5-660-010		VR 50K BX2 RK14K 12A
W101	81-MX4-647-010		F-CABEL,7P-2.5
X703	84-508-618-010		VIB,CER CSB 456 F15
X721	87-030-278-080		VIB,XTAL 7.2MHZ,S
X722	87-030-354-010		VIB,CF BFU450C<EXCEPT LH,U,K,EZ,EEZ,EE>

REF. NO.	PART NO.	カンリ NO.	DESCRIPTION
FRONT C.B			
C101	87-010-178-080		C-CAP,S 1000P-50 B
C102	87-010-178-080		C-CAP,S 1000P-50 B
C201	87-010-555-040		CAP,E 100-10 GAS
C202	87-010-494-040		CAP,E 1-50 GAS
C203	87-010-494-040		CAP,E 1-50 GAS
C204	87-010-248-040		CAP,E 220-10 SME
C205	87-010-197-080		C-CAP,S 0.01-25 B
C301	87-010-196-080		C-CAP,S 0.1-25 F
C302	87-010-196-080		C-CAP,S 0.1-25 F
C303	87-010-196-080		C-CAP,S 0.1-25 F
C701	87-010-545-040		CAP,E 0.22-50 SME
C702	87-010-196-080		C-CAP,S 0.1-25 F
C703	87-016-459-040		CAP,E 470-10 SMG
C704	87-010-405-040		CAP,E 10-50 SME
C705	87-010-319-080		C-CAP,S 56P-50 CH
C706	87-010-196-080		C-CAP,S 0.1-25 F
C707	87-010-405-040		CAP,E 10-50 SME
C708	87-010-406-040		CAP,E 22-50 SME
C709	87-010-322-080		C-CAP,S 100P-50 CH
C710	87-010-196-080		C-CAP,S 0.1-25 F
C711	87-012-155-080		C-CAP,S 180P-50 CH
C712	87-010-401-040		CAP,E 1-50 SME
C713	87-010-176-080		C-CAP,S 680P-50 SL
C714	87-010-992-080		C-CAP,S 0.047-25 B
C715	87-010-196-080		C-CAP,S 0.1-25 F
C801	87-010-196-080		C-CAP,S 0.1-25 F
C802	87-010-196-080		C-CAP,S 0.1-25 F
C803	87-010-196-080		C-CAP,S 0.1-25 F
C804	87-010-196-080		C-CAP,S 0.1-25 F
C805	87-010-196-080		C-CAP,S 0.1-25 F
C806	87-010-322-080		C-CAP,S 100P-50 CH
C851	87-010-384-040		CAP,E 100-25 SME
C871	87-016-044-040		CAP,E 100-16 GAS
C901	87-010-196-080		C-CAP,S 0.1-25 F
C902	87-010-317-080		C-CAP,S 39P-50 CH
C903	87-010-313-080		C-CAP,S 18P-50 CH
C904	87-010-178-080		C-CAP,S 1000P-50 B
C905	87-010-317-080		C-CAP,S 39P-50 CH
C906	87-010-405-040		CAP,E 10-50 SME
C907	87-010-178-080		C-CAP,S 1000P-50 B
C908	87-010-404-040		CAP,E 4.7-50 SME
C909	87-010-404-040		CAP,E 4.7-50 SME
C910	87-010-408-040		CAP,E 47-50 SME
C912	87-010-196-080		C-CAP,S 0.1-25 F
C913	87-015-785-080		C-CAP,0.1-25 F
FB701	87-008-372-080		FLTR,EMI BL 01RN1
FC2	88-913-351-110		FF-CABLE,13P 1.25
FC3	85-NF2-643-110		CABLE FFC,12P-1.25
FC4	88-915-141-110		FF-CABLE,15P 1.25
FL901	85-NF2-611-010		FL,BJ383GK
J701	82-NF7-630-010		JACK,3.5 MO
J702	82-NF7-630-010		JACK,3.5 MO
LED301	87-017-979-010		LED,SEL2413E
LED302	87-017-979-010		LED,SEL2413E
LED303	87-017-979-010		LED,SEL2413E
LED304	87-017-979-010		LED,SEL2413E
LED305	87-017-979-010		LED,SEL2413E
LED306	87-017-979-010		LED,SEL2413E
LED307	87-017-979-010		LED,SEL2413E
LED308	87-017-979-010		LED,SEL2413E
LED309	87-020-862-010		LED,SEL-2213C
LED310	87-020-862-010		LED,SEL-2213C
LED311	87-020-862-010		LED,SEL-2213C
LED312	87-020-862-010		LED,SEL-2213C
LED313	87-070-281-080		LED,SLZ736A-25-S-T1
LED314	87-070-281-080		LED,SLZ736A-25-S-T1
LED315	87-070-281-080		LED,SLZ736A-25-S-T1
LED316	87-070-281-080		LED,SLZ736A-25-S-T1
LED317	87-070-281-080		LED,SLZ736A-25-S-T1
LED318	87-070-281-080		LED,SLZ736A-25-S-T1
LED319	87-017-350-080		LED,SEL1550CM
LED320	87-017-733-080		LED,SEL1250SM
LED321	87-017-350-080		LED,SEL1550CM
LED322	87-017-733-080		LED,SEL1250SM
LED323	87-017-350-080		LED,SEL1550CM
S901	87-036-397-080		SW,TACT SKQNAB
S902	87-036-397-080		SW,TACT SKQNAB
S903	87-036-397-080		SW,TACT SKQNAB
S904	87-036-397-080		SW,TACT SKQNAB
S905	87-036-397-080		SW,TACT SKQNAB
S906	87-036-397-080		SW,TACT SKQNAB
S907	87-036-397-080		SW,TACT SKQNAB
S908	87-036-397-080		SW,TACT SKQNAB
S909	87-036-397-080		SW,TACT SKQNAB
S910	87-036-397-080		SW,TACT SKQNAB
S911	87-036-397-080		SW,TACT SKQNAB
S912	87-036-397-080		SW,TACT SKQNAB
S913	87-036-397-080		SW,TACT SKQNAB<150MG HE,150MG HR>
S914	87-036-397-080		SW,TACT SKQNAB<150MG HE,150MG HR>
S915	87-036-397-080		SW,TACT SKQNAB
S916	87-036-397-080		SW,TACT SKQNAB
S917	87-036-397-080		SW,TACT SKQNAB
S918	87-036-397-080		SW,TACT SKQNAB
S919	87-036-397-080		SW,TACT SKQNAB
S920	87-036-397-080		SW,TACT SKQNAB
S921	87-036-397-080		SW,TACT SKQNAB
S922	87-036-397-080		SW,TACT SKQNAB
S923	87-036-397-080		SW,TACT SKQNAB
S924	87-036-397-080		SW,TACT SKQNAB
S925	87-036-397-080		SW,TACT SKQNAB
S926	87-036-397-080		SW,TACT SKQNAB
S927	87-036-397-080		SW,TACT SKQNAB
S928	87-036-397-080		SW,TACT SKQNAB
S929	87-036-397-080		SW,TACT SKQNAB
S930	87-036-397-080		SW,TACT SKQNAB
S931	87-036-397-080		SW,TACT SKQNAB
S932	87-036-397-080		SW,TACT SKQNAB
S933	87-036-397-080		SW,TACT SKQNAB
S934	87-036-397-080		SW,TACT SKQNAB
S935	87-036-397-080		SW,TACT SKQNAB
S936	87-036-397-080		SW,TACT SKQNAB
S937	87-036-397-080		SW,TACT SKQNAB
S938	87-036-397-080		SW,TACT SKQNAB
S939	87-036-397-080		SW,TACT SKQNAB
S940	87-036-397-080		SW,TACT SKQNAB
S941	87-036-397-080		SW,TACT SKQNAB
S942	87-036-397-080		SW,TACT SKQNAB
VR701	85-NF2-614-010		VR,10KB EVUF2LFN3B14
VR702	85-NF2-613-010		VR,10KA EVUF2LFN3A14
X901	87-030-375-080		VIB,CF 4.19MG200
VR C.B			
C401	87-010-404-040		CAP,E 4.7-50 SME
C402	87-010-404-040		CAP,E 4.7-50 SME
C403	87-016-369-080		C-CAP,S 0.033-25 B K
C404	87-010-112-040		CAP,E 100-16
C406	87-010-184-080		C-CAP,S 3300P-50 B
C407	87-012-141-080		C-CAP,S 0.22-16 F
C408	87-010-426-080		C-CAP,S 0.012-25 B
C410	87-012-358-080		C-CAP,S 0.47-10FZ
C411	87-012-358-080		C-CAP,S 0.47-10FZ
C413	87-010-178-080		C-CAP,S 1000P-50 B
C414	87-010-152-080		C-CAP,S 8P-50 CH
C415	87-010-152-080		C-CAP,S 8P-50 CH
C416	87-010-263-040		CAP,E 100-10
C417	87-010-196-080		C-CAP,S 0.1-25 F
C418	87-010-426-080		C-CAP,S 0.012-25 B
C419	87-010-177-080		C-CAP,S 820P-50 SL
C420	87-010-179-080		C-CAP,S 1200P-50 B
C501	87-010-177-080		C-CAP,S 820P-50 SL
C502	87-010-177-080		C-CAP,S 820P-50 SL
C503	87-010-404-040		CAP,E 4.7-50 SME

REF. NO.	PART NO.	カンリ NO.	DESCRIPTION
C504	87-010-404-040		CAP,E 4.7-50 SME
C505	87-016-369-080		C-CAP,S 0.033-25 B K
C506	87-016-369-080		C-CAP,S 0.033-25 B K
C507	87-010-180-080		C-CAP,S 1500P-50 B
C508	87-010-180-080		C-CAP,S 1500P-50 B
C509	87-010-196-080		C-CAP,S 0.1-25 F
C510	87-010-196-080		C-CAP,S 0.1-25 F
C511	87-010-404-040		CAP,E 4.7-50 SME
C512	87-010-404-040		CAP,E 4.7-50 SME
C513	87-010-260-040		CAP,E 47-25 SME
C516	87-010-198-080		C-CAP,S 0.022-25 B
C601	87-010-322-080		C-CAP,S 100P-50 CH
C602	87-010-322-080		C-CAP,S 100P-50 CH
C603	87-016-073-040		CAP,E 1-50 FX
C604	87-016-073-040		CAP,E 1-50 FX
C605	87-010-402-040		CAP,E 2.2-50 SME
C606	87-010-402-040		CAP,E 2.2-50 SME
C607	87-010-401-040		CAP,E 1-50 SME
C608	87-010-401-040		CAP,E 1-50 SME
C609	87-010-401-040		CAP,E 1-50 SME
C610	87-010-401-040		CAP,E 1-50 SME
C611	87-010-546-040		CAP,E 0.33-50
C612	87-010-404-040		CAP,E 4.7-50 SME
C613	87-010-402-040		CAP,E 2.2-50 SME
C614	87-010-381-080		CAP,E 330-16 SME
C615	87-010-495-040		CAP,E 2.2-50 GAS
C616	87-010-495-040		CAP,E 2.2-50 GAS
C617	87-010-374-040		CAP,E 47-10
C618	87-010-374-040		CAP,E 47-10
FB401	87-008-372-080		FLTR,EMI BL 01RN1
L401	87-005-487-080		COIL,150UH J FLR50
L402	87-005-152-080		COIL,10UH
VR501	85-NF2-612-010		VOL,50KBX2 (M)

AC2 C.B

⚠	87-033-213-080		CLAMP,FUSE SMK
⚠F102	87-035-369-010		FUSE,5A 250V T E<EXCEPT U>
⚠F102	87-035-193-010		FUSE,T5A<U>
⚠F103	87-035-369-010		FUSE,5A 250V T E<EXCEPT U>
⚠F103	87-035-193-010		FUSE,T5A<U>
⚠PT1	85-NF2-654-010		PT,5NF-2 EKZ<K,EZ,EEZ,EE>
⚠PT1	85-NF2-651-010		PT,5NF-2 HE<EXCEPT LH,U,K,EZ,EEZ,EE>
⚠PT1	85-NF2-652-010		PT,5NF-2 LH<LH>
⚠PT1	85-NF2-650-010		PT,5NF-2 U<U>

AC1 C.B

⚠	87-033-147-010		CLAMP,FUSE<U,K,EZ,EEZ,EE>
⚠	82-304-743-010		TERMINAL,1P<U,K,EZ,EEZ,EE>
⚠F101	87-035-518-010		FUSE 5A 125V T<U>
⚠F101	87-035-369-010		FUSE,5A 250V T E<K,EZ,EEZ,EE>

AC CHANGE C.B

⚠	87-033-147-010		CLAMP,FUSE<EXCEPT U,K,EZ,EEZ,EE>
⚠	82-304-743-010		TERMINAL,1P<EXCEPT U,K,EZ,EEZ,EE>
⚠F101	87-035-368-010		FUSE,4A 250V T E<EXCEPT U,K,EZ,EEZ,EE>
⚠SW101	87-036-387-010		SW,SL 1-2-3<EXCEPT U,K,EZ,EEZ,EE>

CD C.B

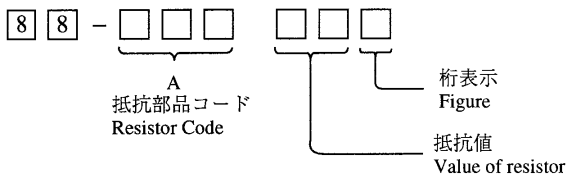
C101	87-010-148-480		C-CAP,S 4P-50 CH
C102	87-010-194-080		C-CAP,S 0.047-25 F
C104	87-010-197-080		C-CAP,S 0.01-25 B
C105	87-010-263-080		CAP,E 100-10
C107	87-010-197-080		C-CAP,S 0.01-25 B
C108	87-010-263-080		CAP,E 100-10
C111	87-010-178-080		C-CAP,S 1000P-50 B
C112	87-010-405-080		CAP,E 10-50 SME
C113	87-010-248-080		CAP,E 220-10 SME
C114	87-010-197-080		C-CAP,S 0.01-25 B
C121	87-010-198-080		C-CAP,S 0.022-25 B
C122	87-010-196-080		C-CAP,S 0.1-25 F
C123	87-010-405-080		CAP,E 10-50 SME
C124	87-010-195-080		C-CAP,S 0.068-25 F
C125	87-010-401-080		CAP,E 1-50 SME
C131	87-010-374-080		CAP,E 47-10
C132	87-010-403-080		CAP,E 3.3-50 SME
C133	87-010-401-080		CAP,E 1-50 SME
C134	87-010-992-080		C-CAP,S 0.47-25 F
C135	87-010-198-080		C-CAP,S 0.022-25 B
C137	87-015-819-080		C-CAP,0.01-50 B K
C138	87-010-406-080		CAP,E 22-50 SME
C139	87-010-263-080		CAP,E 100-10
C141	87-010-316-080		C-CAP,S 33P-50 CH
C142	87-010-263-080		CAP,E 100-10
C143	87-010-197-080		C-CAP,S 0.01-25 B
C151	87-010-213-080		C-CAP,S 0.015-50 B
C152	87-010-176-080		C-CAP,S 680P-50 SL
C201	87-010-374-080		CAP,E 47-10
C202	87-015-819-080		C-CAP,0.01-50 B K
C203	87-010-374-080		CAP,E 47-10
C204	87-015-819-080		C-CAP,0.01-50 B K
C205	87-010-197-080		C-CAP,S 0.01-25 B
C206	87-010-404-080		CAP,E 4.7-50 SME
C208	87-010-248-080		CAP,E 220-10 SME
C209	87-010-197-080		C-CAP,S 0.01-25 B
C211	87-010-186-080		C-CAP,S 4700P-50 B
C212	87-010-184-080		C-CAP,S 3300P-50 B
C213	87-010-184-080		C-CAP,S 3300P-50 B
C214	87-010-197-080		C-CAP,S 0.01-25 B
C215	87-010-263-080		CAP,E 100-10
C216	87-010-263-080		CAP,E 100-10
C217	87-010-197-080		C-CAP,S 0.01-25 B
C218	87-010-322-080		C-CAP,S 100P-50 CH
C219	87-010-197-080		C-CAP,S 0.01-25 B
C220	87-010-197-080		C-CAP,S 0.01-25 B
C221	87-010-318-080		C-CAP,S 47P-50 CH
C222	87-010-314-080		C-CAP,S 22P-50 CH
C223	87-010-314-080		C-CAP,S 22P-50 CH
C231	87-010-318-080		C-CAP,S 47P-50 CH
C232	87-010-321-080		C-CAP,S 82P-50 CH
C233	87-010-321-080		C-CAP,S 82P-50 CH
C234	87-012-153-080		C-CAP,S 120P-50 CH
C235	87-012-153-080		C-CAP,S 120P-50 CH
C236	87-010-403-080		CAP,E 3.3-50 SME
C237	87-010-186-080		C-CAP,S 4700P-50 B
C238	87-010-263-080		CAP,E 100-10
C239	87-010-248-080		CAP,E 220-10 SME
C240	87-010-197-080		C-CAP,S 0.01-25 B
C251	87-010-318-080		C-CAP,S 47P-50 CH
C252	87-010-321-080		C-CAP,S 82P-50 CH
C253	87-010-321-080		C-CAP,S 82P-50 CH
C254	87-012-153-080		C-CAP,S 120P-50 CH
C255	87-012-153-080		C-CAP,S 120P-50 CH
C257	87-010-403-080		CAP,E 3.3-50 SME
C259	87-010-186-080		C-CAP,S 4700P-50 B
C301	87-010-196-080		C-CAP,S 0.1-25 F
C302	87-010-196-080		C-CAP,S 0.1-25 F
C303	87-010-196-080		C-CAP,S 0.1-25 F
C304	87-010-196-080		C-CAP,S 0.1-25 F
C305	87-010-197-080		C-CAP,S 0.01-25 B
C306	87-010-221-080		CAP,E 470-10
C308	87-010-197-080		C-CAP,S 0.01-25 B
C309	87-010-374-080		CAP,E 47-10
C311	87-010-374-080		CAP,E 47-10
C312	87-010-197-080		C-CAP,S 0.01-25 B
C401	87-010-178-080		C-CAP,S 1000P-50 B
C402	87-010-178-080		C-CAP,S 1000P-50 B
C403	87-010-196-080		C-CAP,S 0.1-25 F
C404	87-010-196-080		C-CAP,S 0.1-25 F

REF. NO.	PART NO.	カンリ NO.	DESCRIPTION
C411	87-010-178-080		C-CAP,S 1000P-50 B
C412	87-010-178-080		C-CAP,S 1000P-50 B
C413	87-010-178-080		C-CAP,S 1000P-50 B
C414	87-010-406-080		CAP,E 22-50 SME
C421	87-010-196-080		C-CAP,S 0.1-25 F
C422	87-010-197-080		C-CAP,S 0.01-25 B
C423	87-010-384-040		CAP,E 100-25 SME
C501	87-010-197-080		C-CAP,S 0.01-25 B
C521	87-010-196-080		C-CAP,S 0.1-25 F
C522	87-010-404-080		CAP,E 4.7-50 SME
C523	87-010-197-080		C-CAP,S 0.01-25 B
C524	87-010-248-080		CAP,E 220-10 SME
C601	87-010-374-080		CAP,E 47-10<150MG HE,150MG HR>
C602	87-010-194-080		C-CAP,S 0.047-25 F<150MG HE,150MG HR>
C603	87-010-197-080		C-CAP,S 0.01-25 B<150MG HE,150MG HR>
C604	87-010-374-080		CAP,E 47-10<150MG HE,150MG HR>
C605	87-010-374-080		CAP,E 47-10<150MG HE,150MG HR>
C606	87-010-197-080		C-CAP,S 0.01-25 B<150MG HE,150MG HR>
C607	87-010-405-080		CAP,E 10-50 SME<150MG HE,150MG HR>
C609	87-010-405-080		CAP,E 10-50 SME<150MG HE,150MG HR>
C610	87-010-197-080		C-CAP,S 0.01-25 B<150MG HE,150MG HR>
C611	87-010-193-020		C-CAP,S 0.033-25 F<150MG HE,150MG HR>
C612	87-010-313-080		C-CAP,S 18P-50 CH<150MG HE,150MG HR>
C613	87-010-314-080		C-CAP,S 22P-50 CH<150MG HE,150MG HR>
C614	87-010-313-080		C-CAP,S 18P-50 CH<150MG HE,150MG HR>
C615	87-010-314-080		C-CAP,S 22P-50 CH<150MG HE,150MG HR>
C621	87-010-197-080		C-CAP,S 0.01-25 B<150MG HE,150MG HR>
C622	87-010-374-080		CAP,E 47-10<150MG HE,150MG HR>
C623	87-010-178-080		C-CAP,S 1000P-50 B<150MG HE,150MG HR>
C624	87-010-321-080		C-CAP,S 82P-50 CH<150MG HE,150MG HR>
C625	87-010-404-080		CAP,E 4.7-50 SME<150MG HE,150MG HR>
C626	87-010-221-080		CAP,E 470-10<150MG HE,150MG HR>
C627	87-010-196-080		C-CAP,S 0.1-25 F<150MG HE,150MG HR>
C631	87-010-197-080		C-CAP,S 0.01-25 B
C632	87-010-405-080		CAP,E 10-50 SME
CON3	85-ZG2-612-010		CONN ASSY,5P-W
CON4	85-ZG2-613-010		CONN ASSY,6P-R
CON5	85-ZG2-614-010		CONN ASSY,6P-BR
EMI601	87-008-474-080		F-BEAD,EMI BL02RN1<150MG HE,150MG HR>
EMI602	87-008-474-080		F-BEAD,EMI BL02RN1<150MG HE,150MG HR>
FC5	85-ZG2-615-010		CABLE,FFC 1.25-5P
J601	87-009-502-010		JACK,PIN 1P Y EARTH<150MG HE,150MG HR>
Q402	87-026-666-080		P-TR,PT361
SFR101	87-024-176-080		SFR,100K DIA6 V
SFR102	87-024-176-080		SFR,100K DIA6 V
SFR103	87-024-171-080		SFR,4.7K DIA6 V
SFR201	87-024-176-080		SFR,100K DIA6 V
SFR401	87-024-350-080		SFR,2.2K
SFR402	87-024-170-080		SFR 3.3K DIA6 V TP
X201	87-030-402-089		VIB,XTAL 16.9344MHZ
X601	80-JUC-602-080		VIB,XTAL 17.73MHZ<150MG HE,150MG HR>
X602	80-JUC-601-080		VIB,XTAL 14.31MHZ<150MG HE,150MG HR>
ELV C.B			
C801	87-010-196-080		C-CAP,S 0.1-25 F
C802	87-010-197-080		C-CAP,S 0.01-25 B
C811	87-010-260-080		CAP,E 47-25 SME
C812	87-010-178-080		C-CAP,S 1000P-50 B
C821	87-010-247-080		CAP,E 100-50 SME
C822	87-010-197-080		C-CAP,S 0.01-25 B
C831	87-010-178-080		C-CAP,S 1000P-50 B
C841	87-010-178-080		C-CAP,S 1000P-50 B
C851	87-010-197-080		C-CAP,S 0.01-25 B
C852	87-010-668-080		CAP,E 470-50 SME
C853	87-012-140-080		C-CAP,S 470P-50 CH
C854	87-010-182-080		C-CAP,S 2200P-50 B
C855	87-012-140-080		C-CAP,S 470P-50 CH
C856	87-018-132-070		CAP,TC-U 2200P
CON814	83-ZG1-625-010		CONN ASSY,6P M-SW
SW801	87-036-269-080		SW,PUSH ESE102MH1
SW802	87-036-312-080		C-SW,PUSH 102MH4

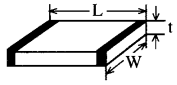
REF. NO.	PART NO.	カンリ NO.	DESCRIPTION
ILLUM C.B			
D811	87-070-128-010		LED,SEL4828A
D812	87-070-128-010		LED,SEL4828A
D813	87-070-128-010		LED,SEL4828A
MOT ELV C.B			
SNSR MOT C.B			
PS802	87-026-583-080		P-SNSR,NJL5183K-F10
SW TRAY C.B			
SW811	87-036-269-080		SW,PUSH ESE102MH1
SW812	87-036-312-080		C-SW,PUSH 102MH4
MOT TRAY C.B			
C803	87-010-196-080		C-CAP,S 0.1-25 F
ADJ ELV C.B			
PS801	87-026-573-010		P-SNSR,GP1S53V
SNSR T C.B			
LED801	83-XA2-672-010		LED,SID1010CM
DECK C.B			
	82-ZM1-625-019		RBN-CORD,4P-55
CON501	87-099-756-019		CONN,15P 9604S F
SFR1	87-024-581-010		SFR,3.3K DIA 6H
SOL1	82-ZM1-618-310		SOL ASSY,27
SOL2	82-ZM1-626-010		SOL ASSY,27K
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
HEAD-1 C.B			
HEAD-2 C.B			
CON351	85-NF2-647-010		CONN ASSY,8P-RPB
MOTOR C.B			
M1	87-045-362-019		MOT,MDN4RA3FTAS1
M2	87-045-363-019		MOT,MDN4RA3ETA1
SW1	87-036-340-019		SW,LEAF LSA-1121

○ 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

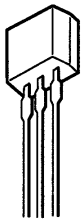


チップ抵抗
Chip resistor

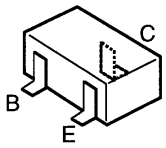
Wattage 容量	Type 種類	Tolerance 許容誤差	Symbol 記号	Dimensions／寸法 (mm)				Resistor Code: A 抵抗コード ：A
				Form／外形	L	W	t	
1／32W	1608	±5%	CJ		1.6	0.8	0.35	108
1／10W	2125	±5%	CJ		2	1.25	1.45	118
1／8W	3216	±5%	CJ		3.2	1.6	0.5 ～0.7	128

TRANSISTOR ILLUSTRATION

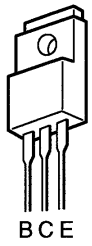
2SA933RS 2SC1815
2SA935 2SC2001
2SA952 2SC3266
2SA1015 2SC3331
2SA1296 2SD655
2SA1318 KTC3198



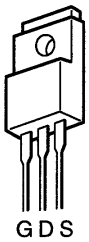
2SA933S
2SC1740S
DTA114ES
DTA114YS



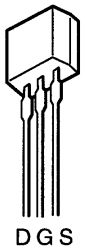
2SA1162 DTA144WK
2SC2712 DTC114EK
2SC2714 DTC124EK
2SC3326 DTC143EK
2SC3722K DTC143XK
DTA143EK DTC144EK
DTA144EK



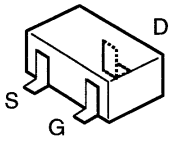
2SB1370



2SJ176
2SK1094



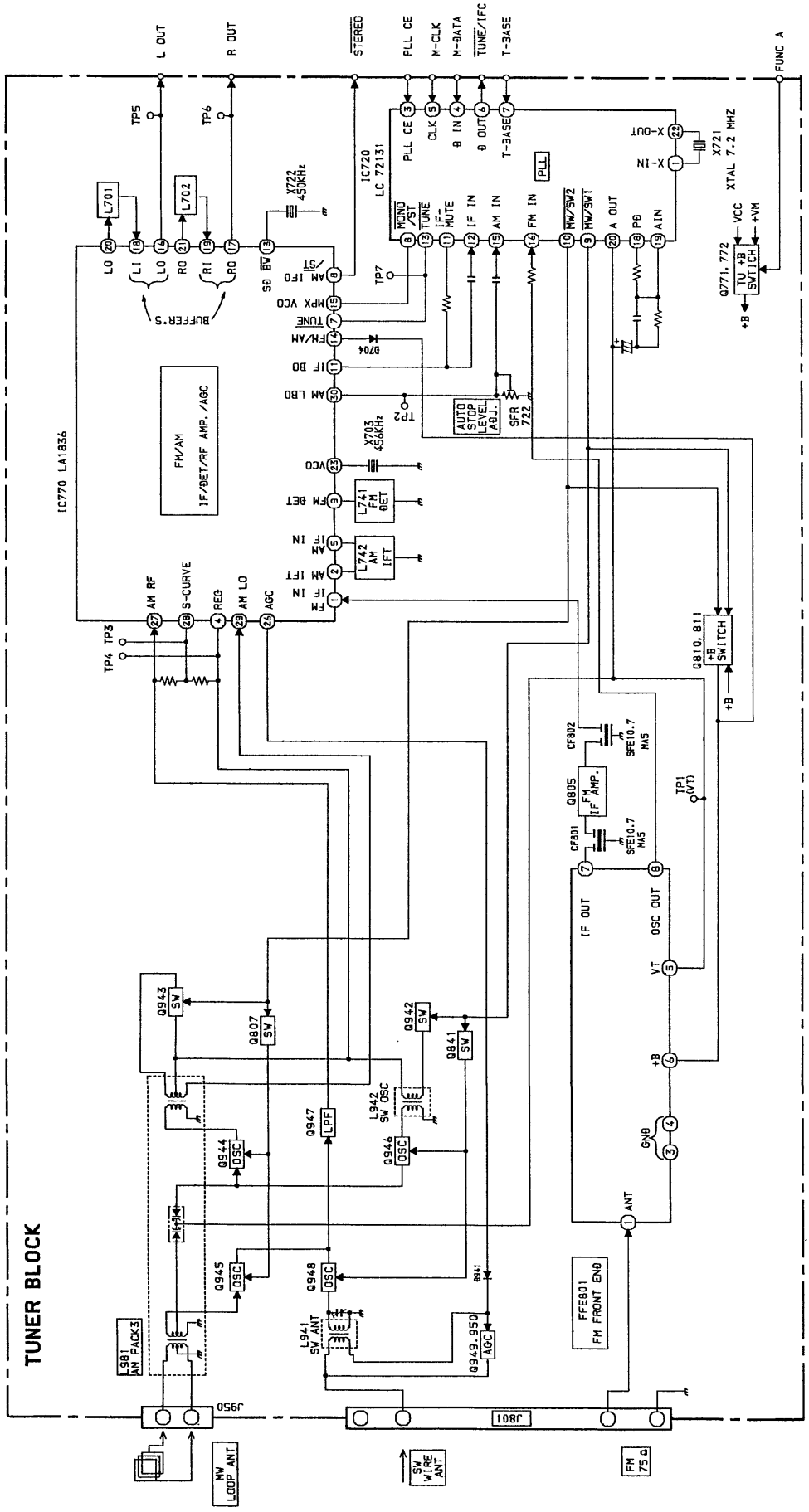
2SK365



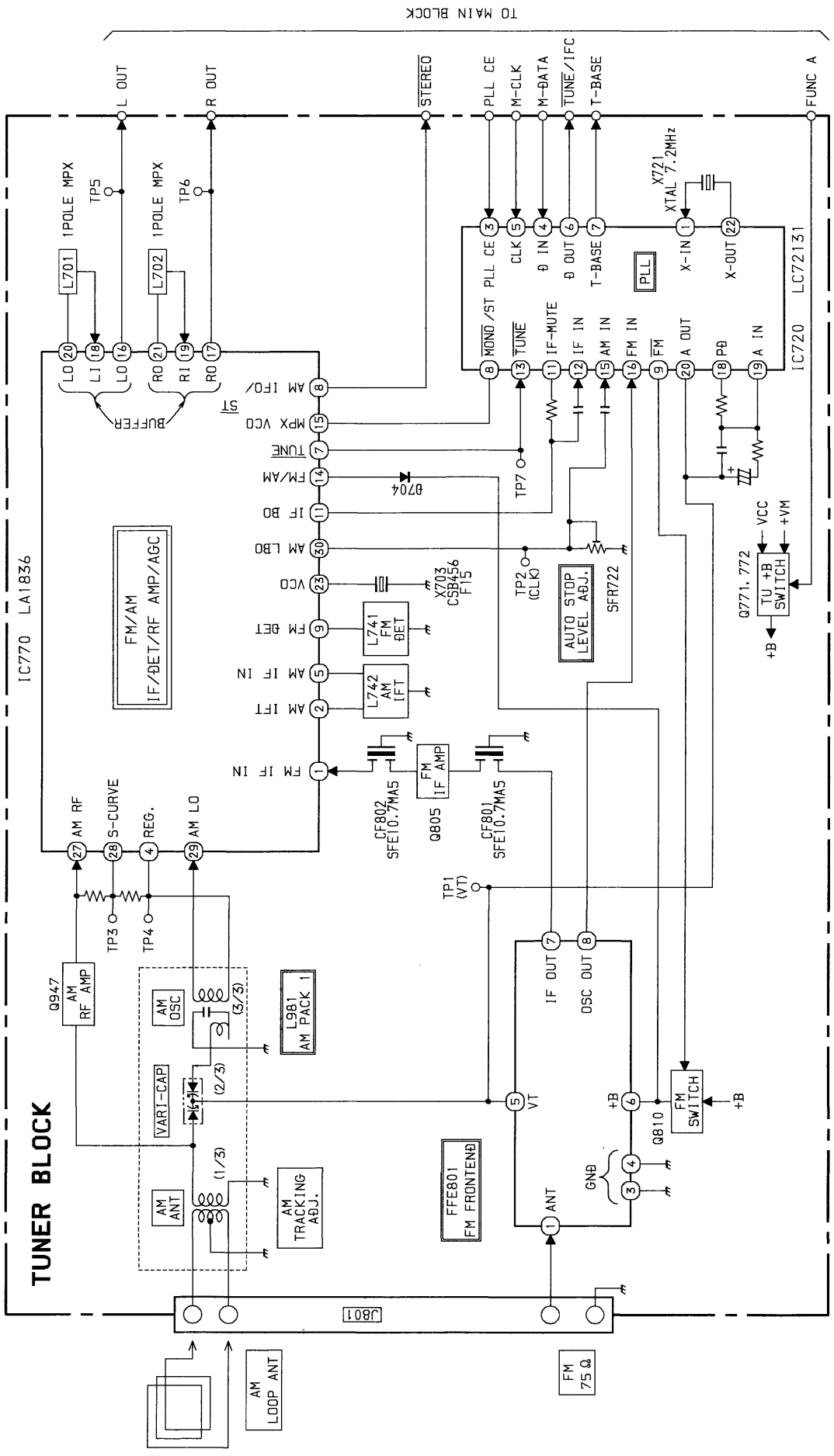
2SK543

2SB1329

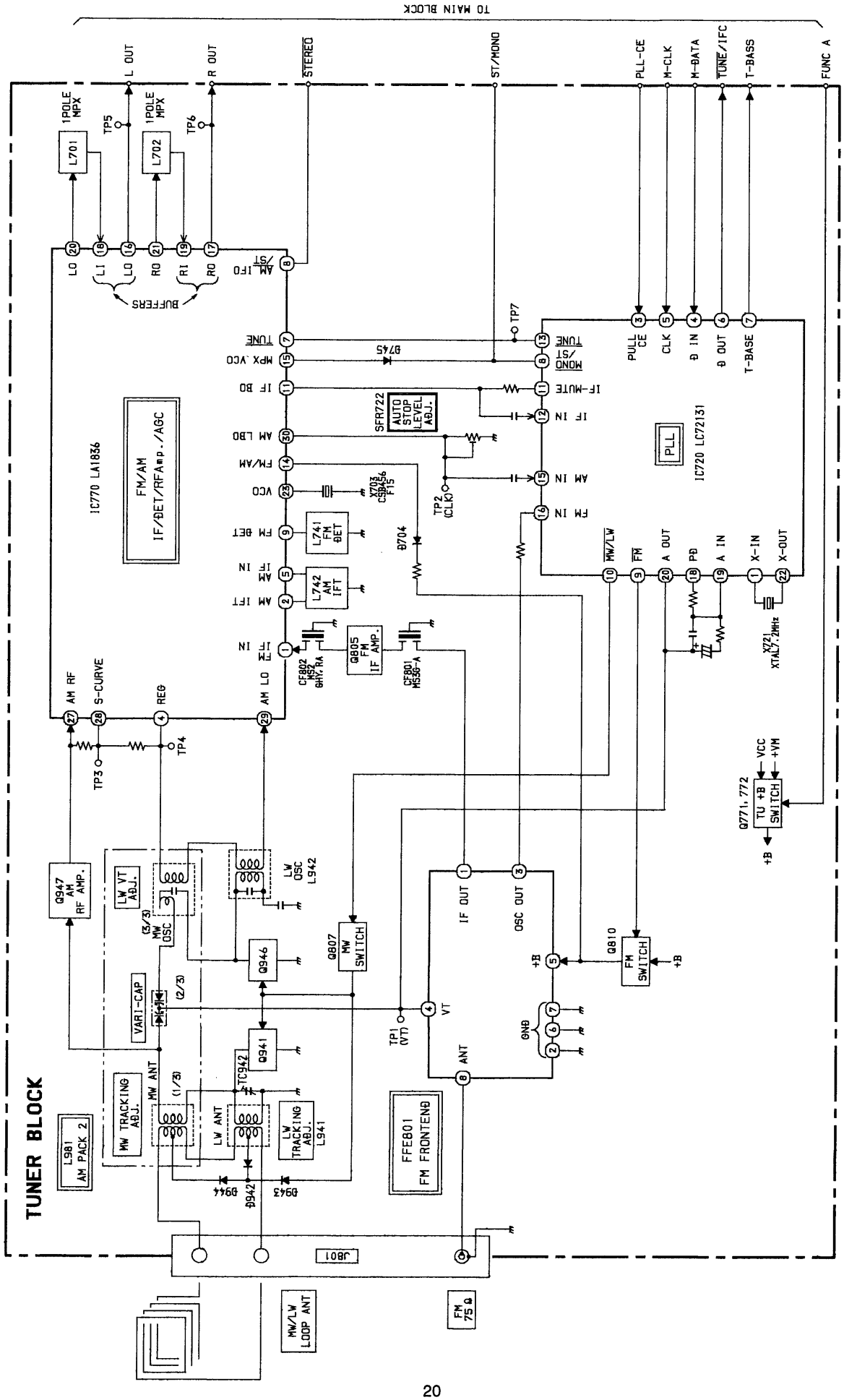
BLOCK DIAGRAM-1 (TUNER: HE, HR, HK, 150MG)



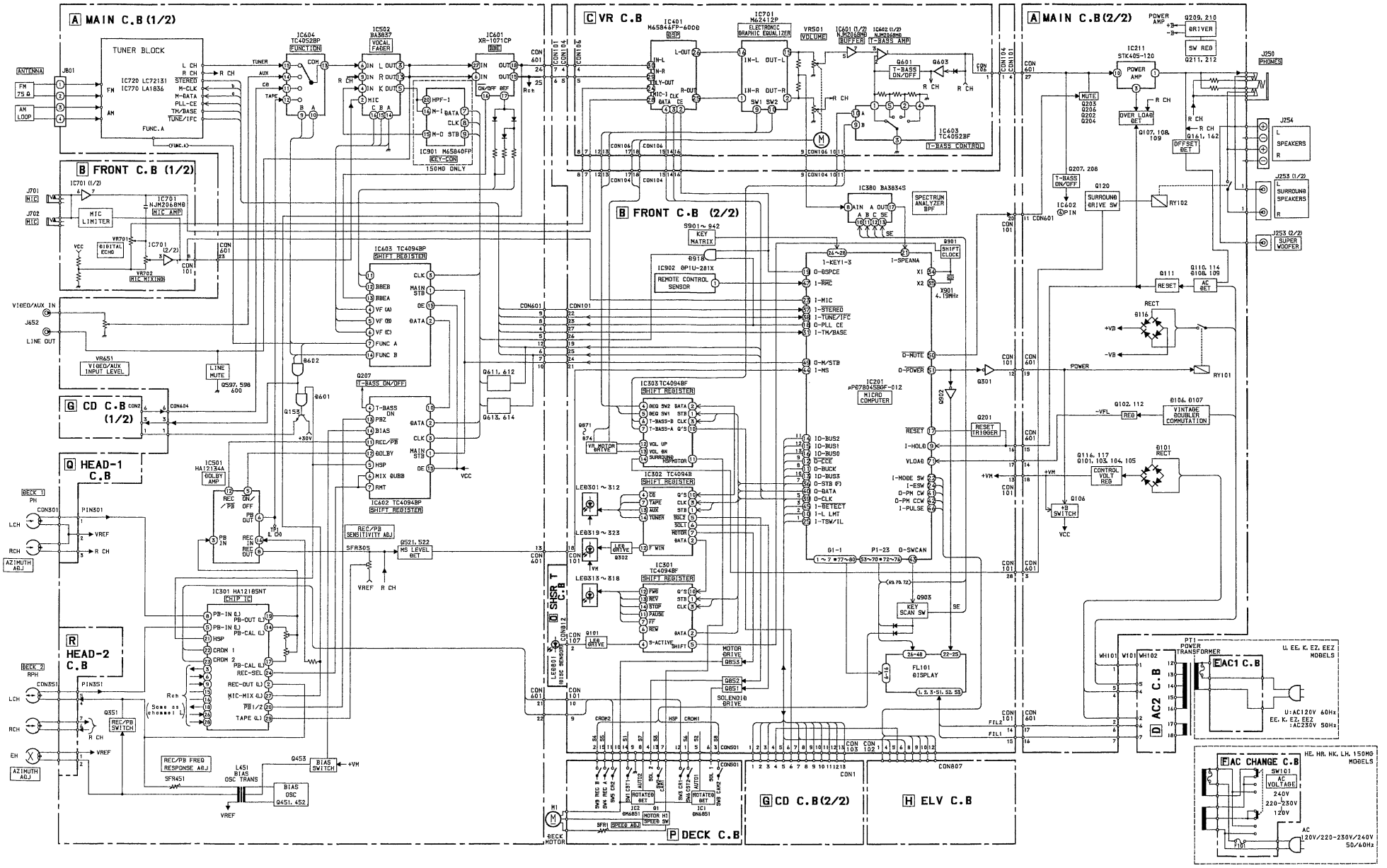
BLOCK DIAGRAM-2 (TUNER: LH, U)



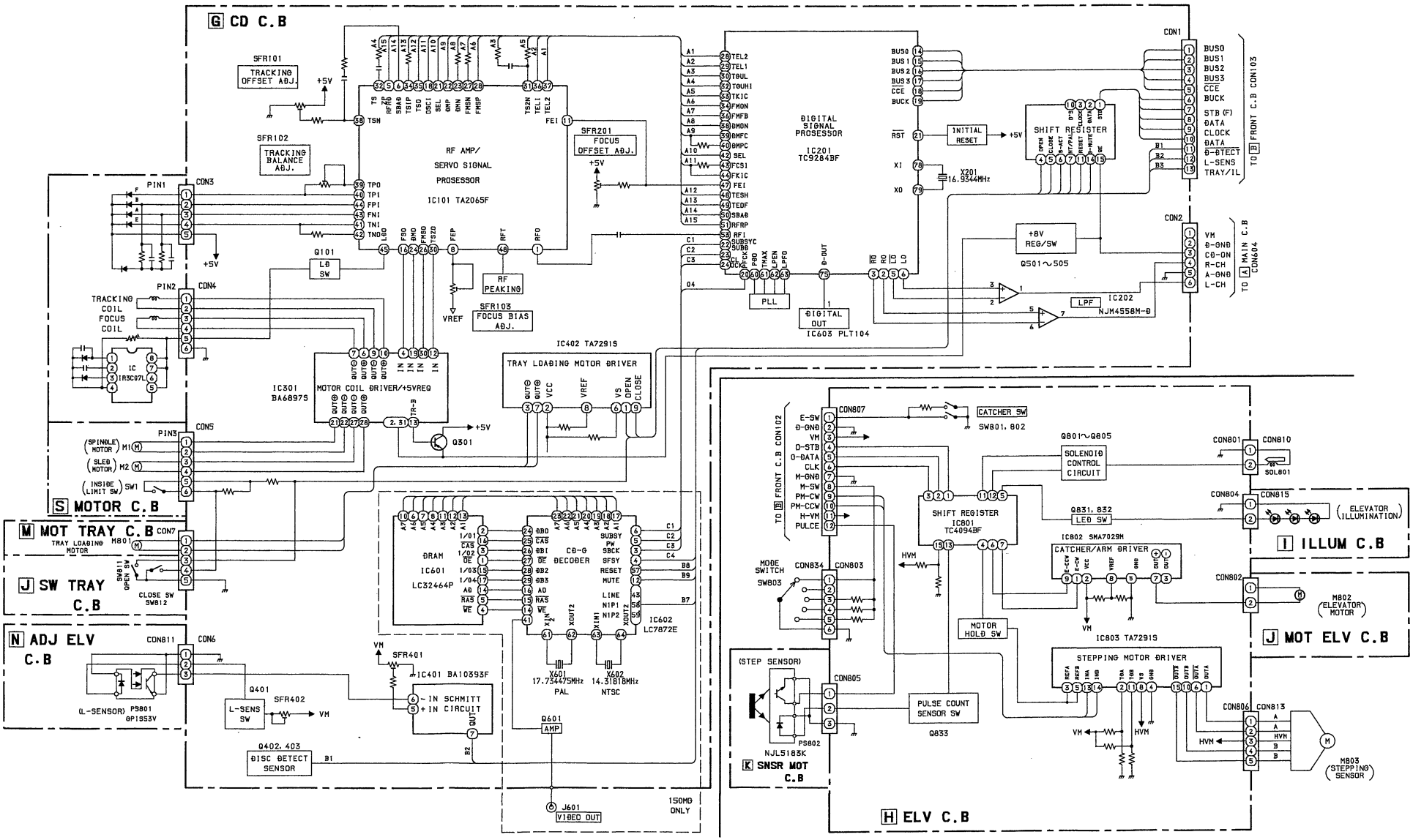
BLOCK DIAGRAM-3 (TUNER: EE, K, EEZ, EZ)

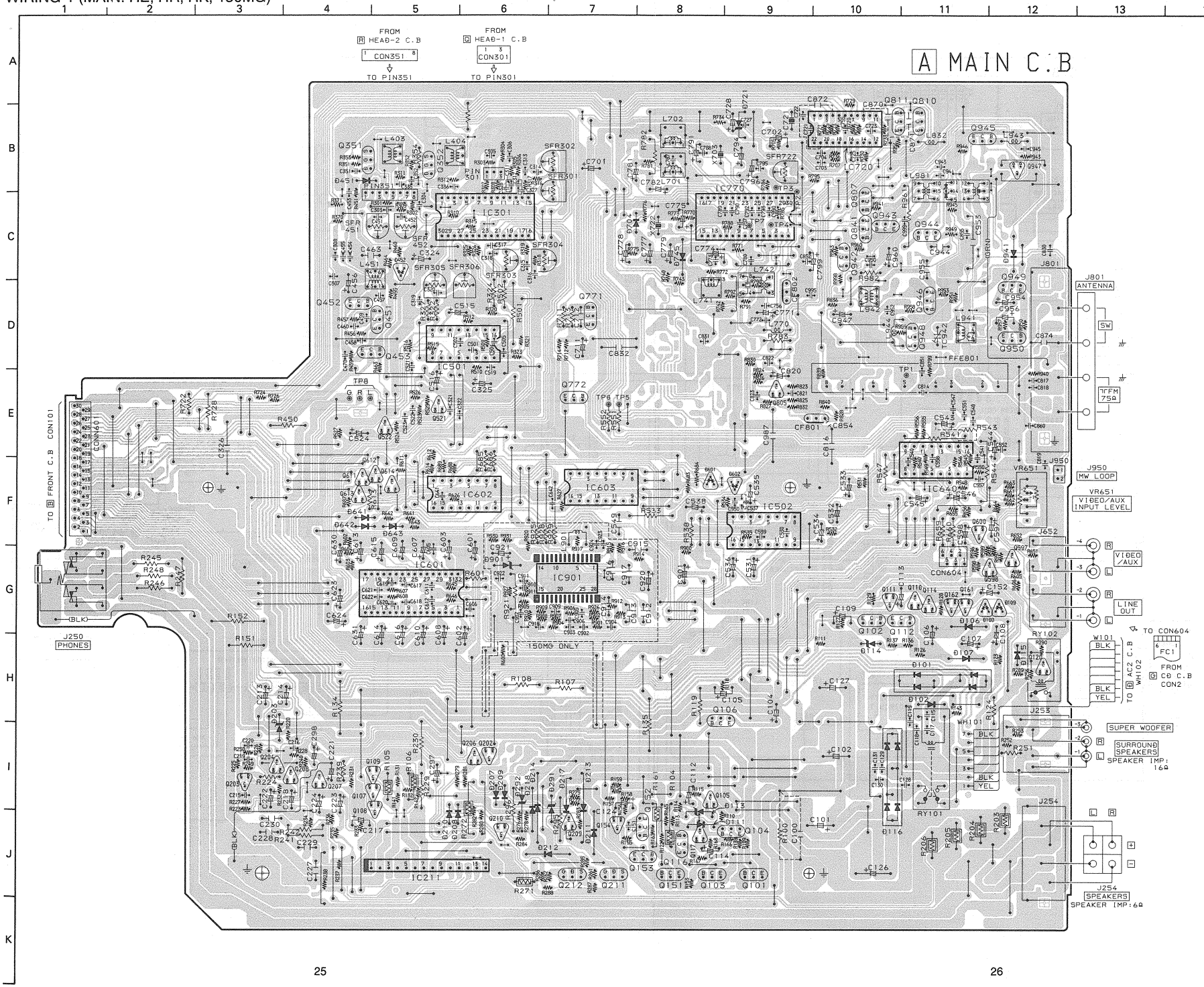


BLOCK DIAGRAM-4 (MAIN)

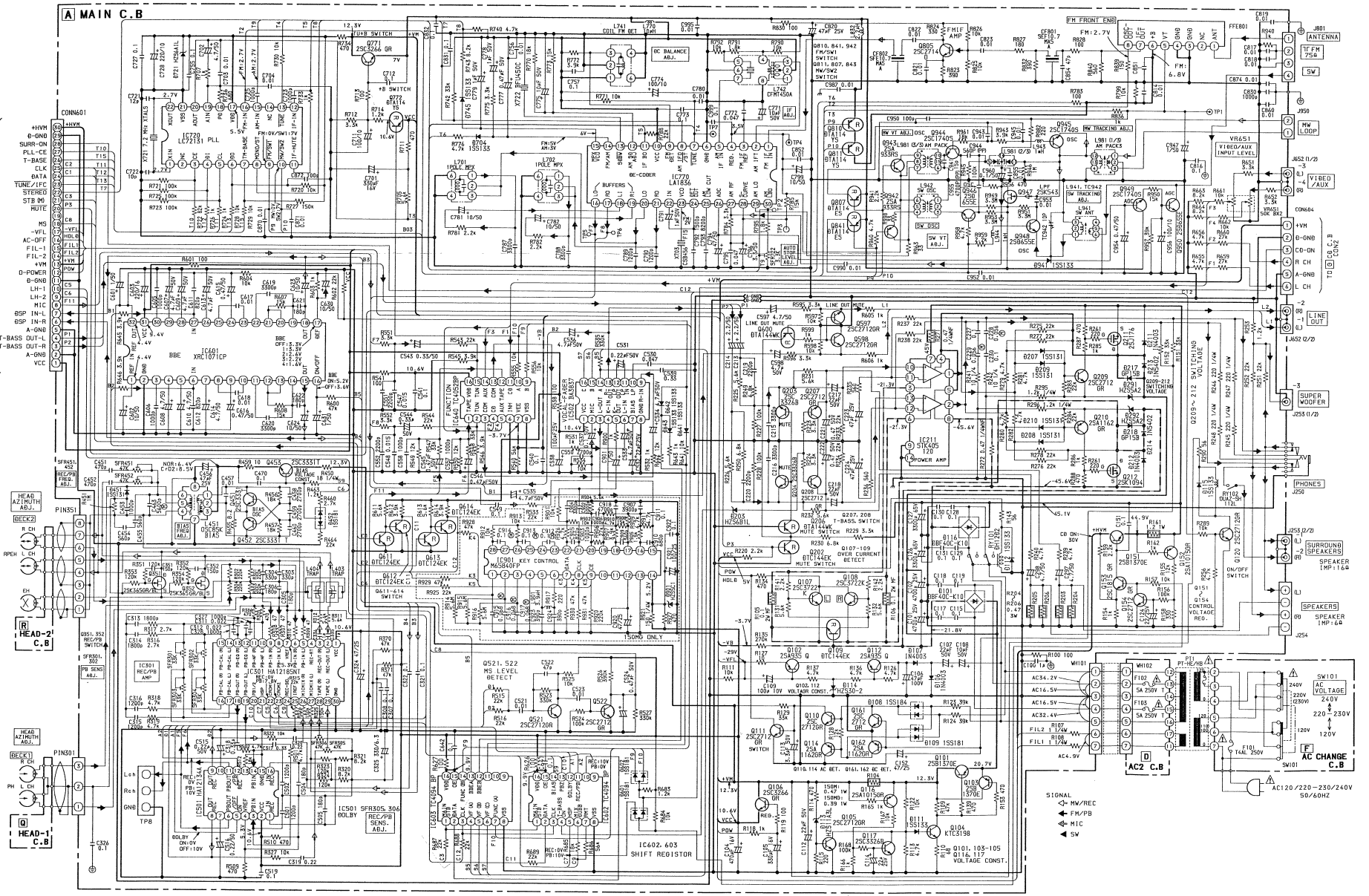


BLOCK DIAGRAM-5 (CD)

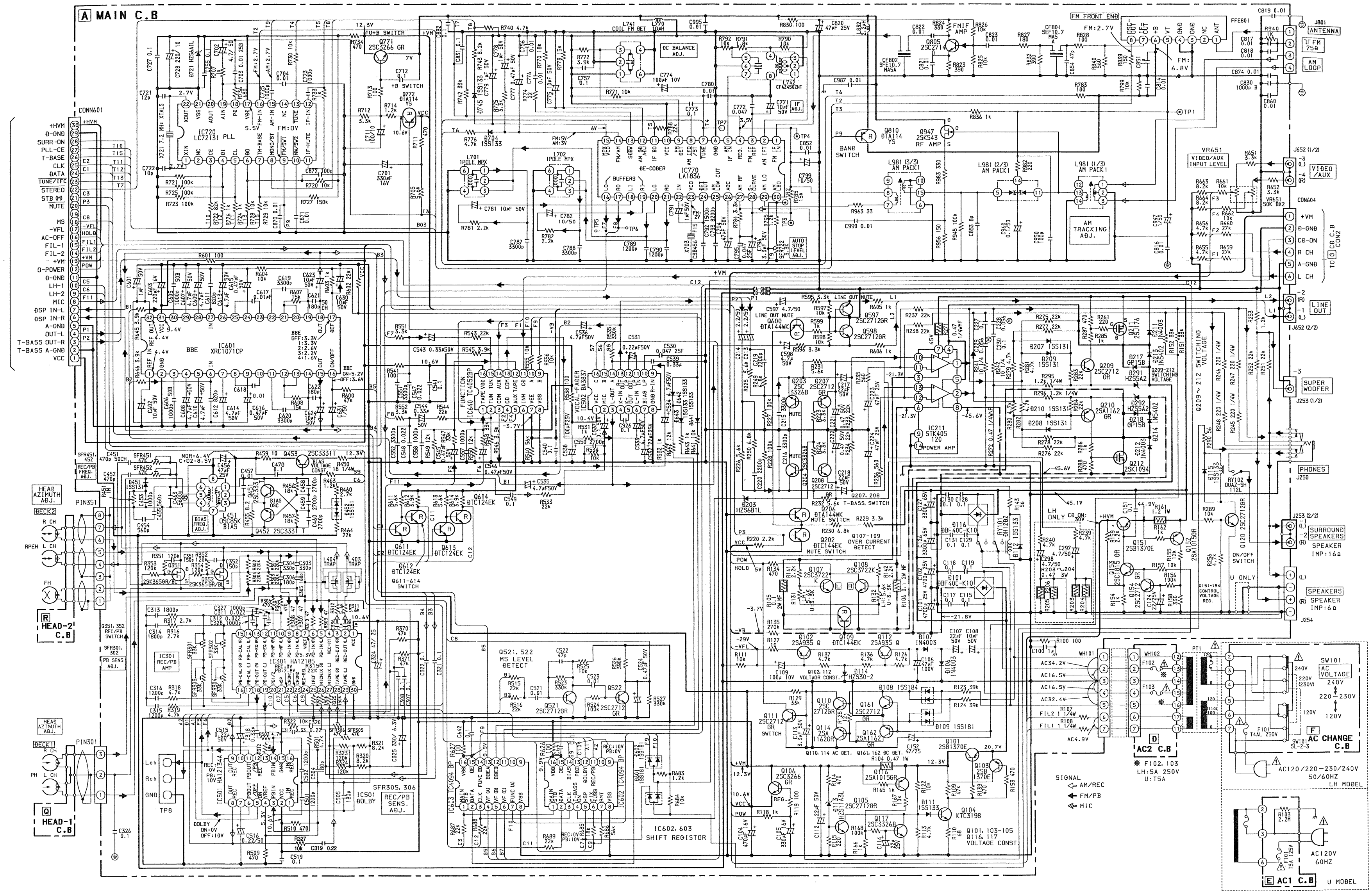


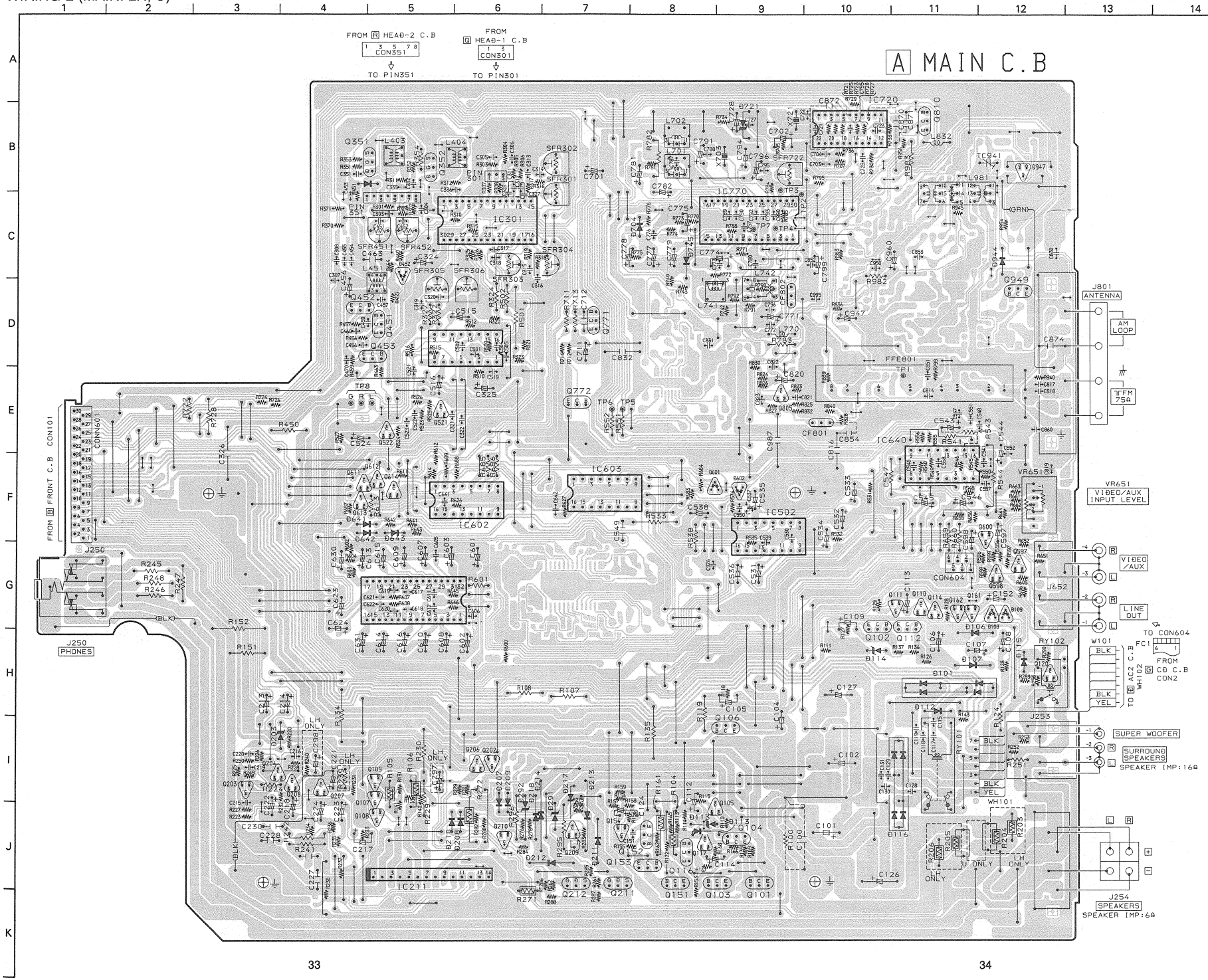

A MAIN C.B
FROM R HEAD-2 C.B
CON351
TO PIN351
FROM Q HEAD-1 C.B
CON301
TO PIN301
TO B FRONT C.B CON101
CONN401
J250 PHONES
(BLK)
150MG ONLY
J801 ANTENNA
SW
FM 75Ω
J950 MW LOOP
VR651 VIDEO/AUX INPUT LEVEL
J652
VIDEO /AUX
LINE OUT
TO CON604
FROM Q CD C.B CON2
TO B AC2 C.B WH102
WH101
BLK
BLK
YEL
BLK
YEL
J253
SUPER WOOFER
SURROUND SPEAKERS
SPEAKER IMP: 16Ω
J254
SPEAKERS
SPEAKER IMP: 6Ω

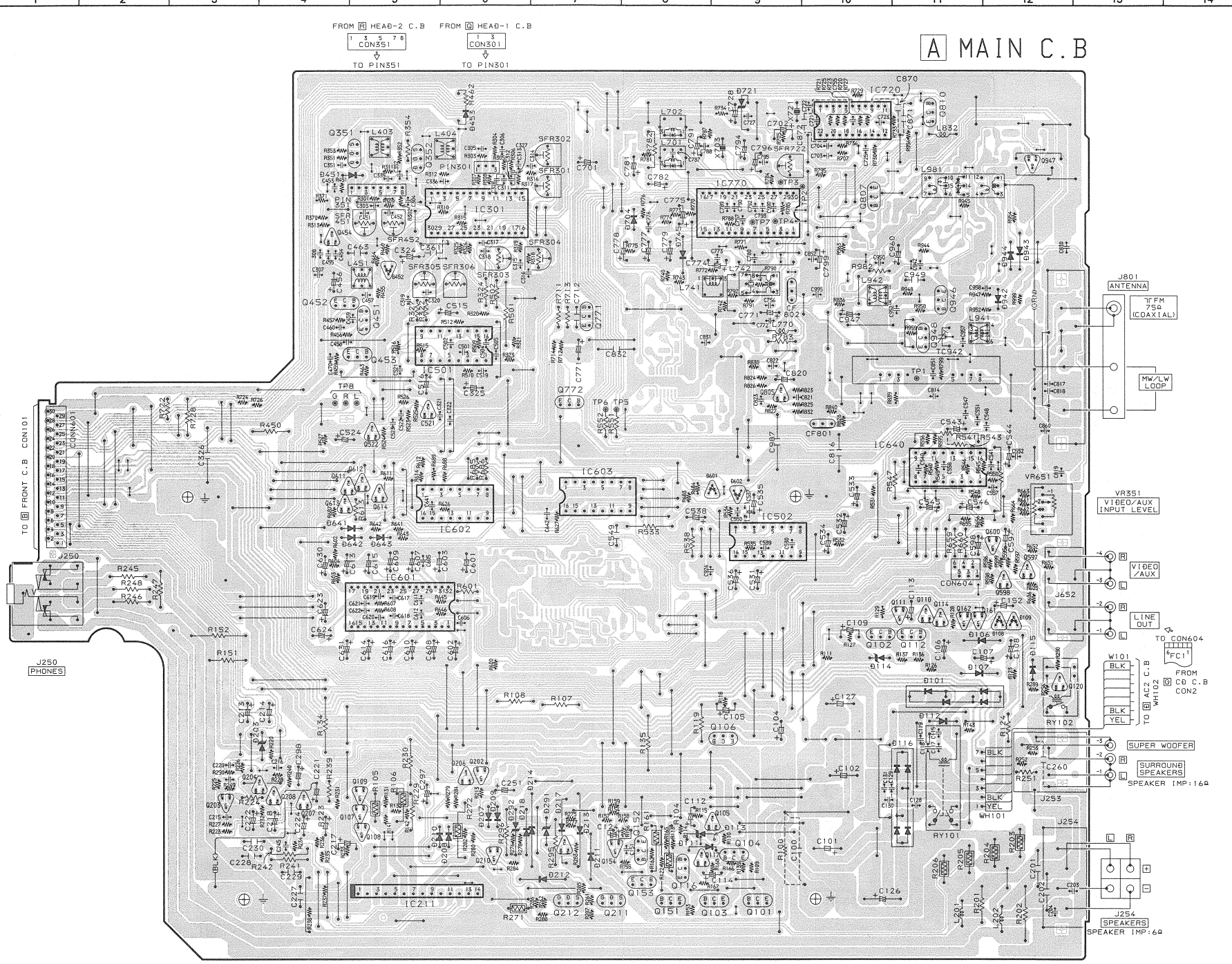
SCHEMATIC DIAGRAM-1 (MAIN: HE, HR, HK, 150MG)



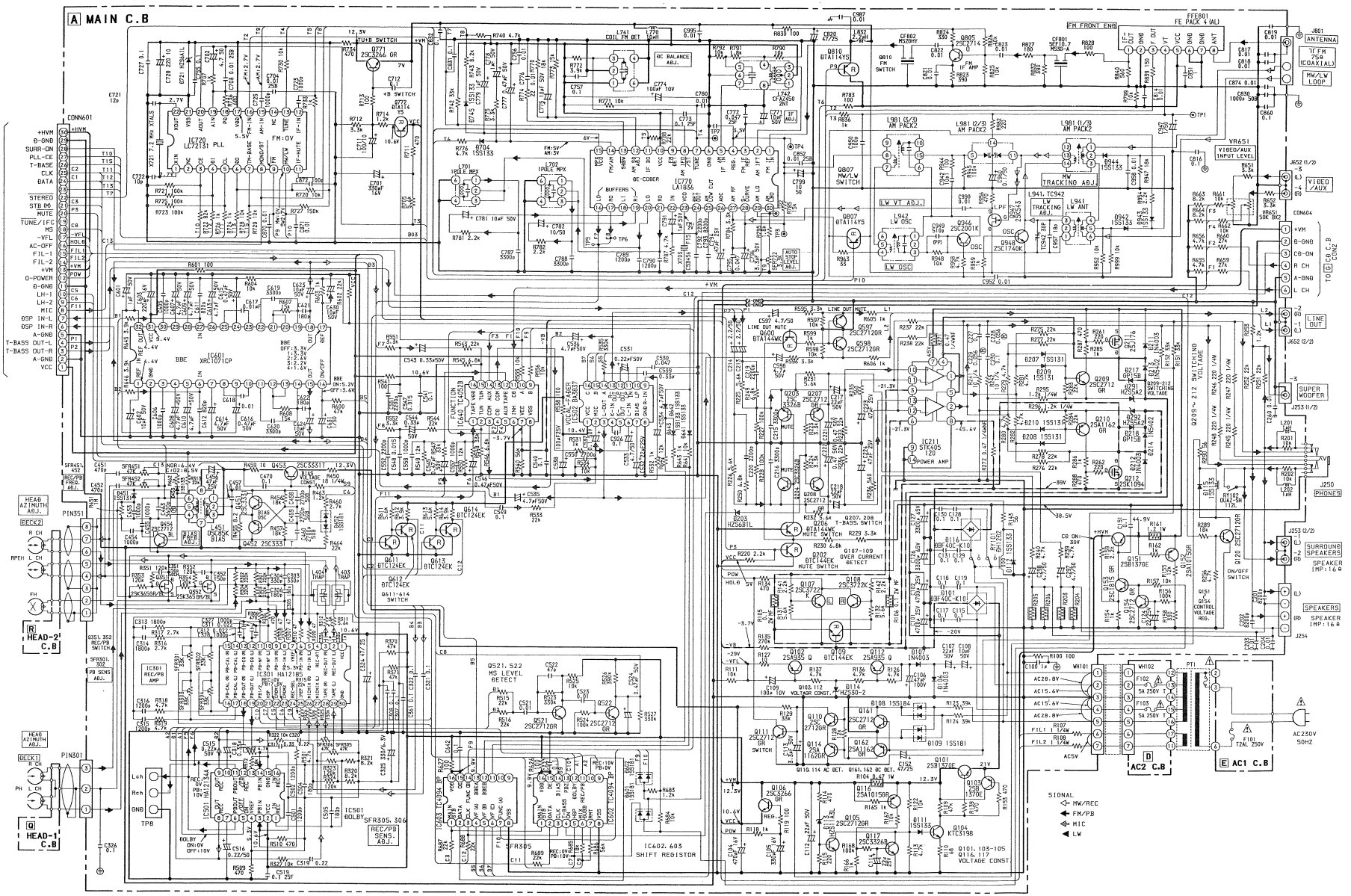
SCHEMATIC DIAGRAM-2 (MAIN: LH, U)



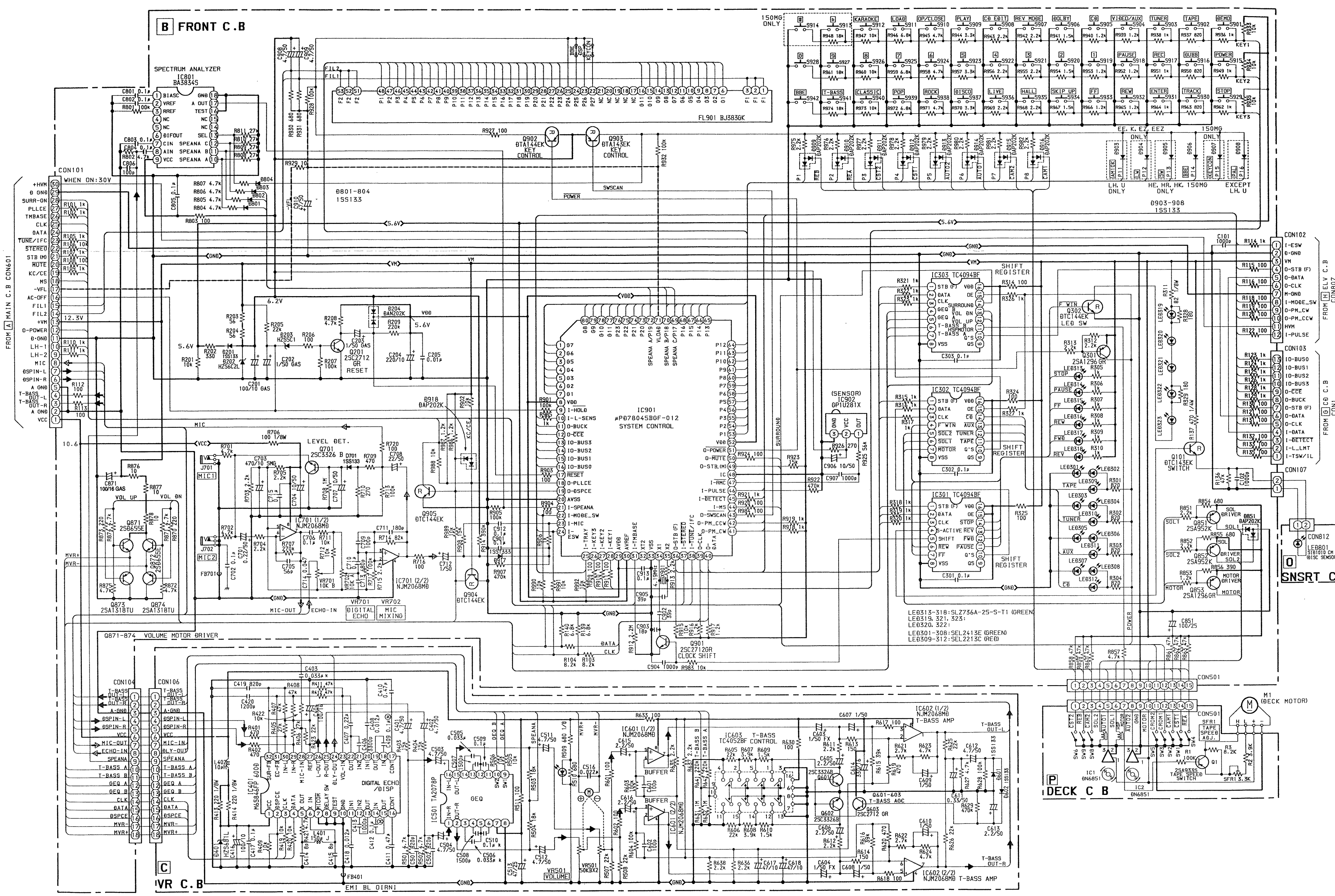

A MAIN C.B
FROM R HEAD-2 C.B
CON351
TO PIN351
FROM
HEAD-1 C.B
CON301
TO PIN301
FROM B FRONT C.B CON101
J250
PHONES
J801
ANTENNA
AM LOOP
FFM 75Ω
VR651
VIDEO/AUX INPUT LEVEL
VIDEO /AUX
LINE OUT
TO CON604
FROM C0 C.B CON2
TO B AC2 C.B WH102
SUPER WOOFER
SURROUND SPEAKERS
SPEAKER IMP:16Ω
J254
SPEAKERS
SPEAKER IMP:6Ω
IC301
IC602
IC603
IC640
IC720
IC770
IC211
IC502
FFE801
CF801
CON601
CON604
WH101
WH102
RY101
RY102
RY100
LH ONLY
C ONLY

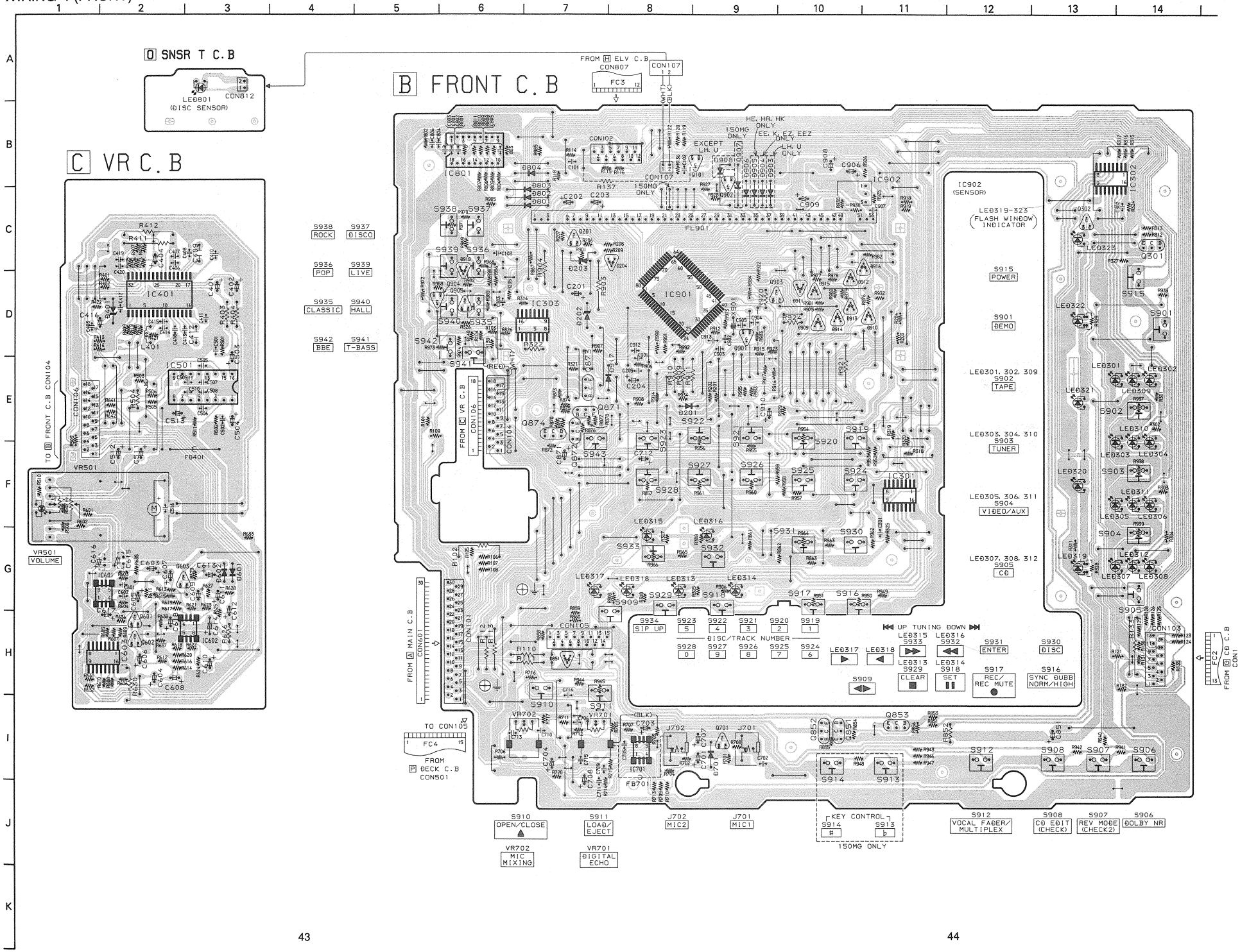

A MAIN C.B
FROM R HEAD-2 C.B
CON351
TO PIN351
FROM Q HEAD-1 C.B
CON301
TO PIN301
TO B FRONT C.B CON101
J250
PHONES
J801
ANTENNA
FM 75Ω (COAXIAL)
MW/LW LOOP
VR351
VIDEO/AUX INPUT LEVEL
VIDEO /AUX
LINE OUT
TO CON604
FROM C0 C.B CON2
TO B AC2 C.B WH102
SUPER WOOFER
SURROUND SPEAKERS
SPEAKER IMP:16Ω
J254
SPEAKERS
SPEAKER IMP:6Ω
IC301
IC501
IC602
IC603
IC502
IC640
IC720
IC770
IC942
IC601
IC211
RY101
RY102
WH101
W101

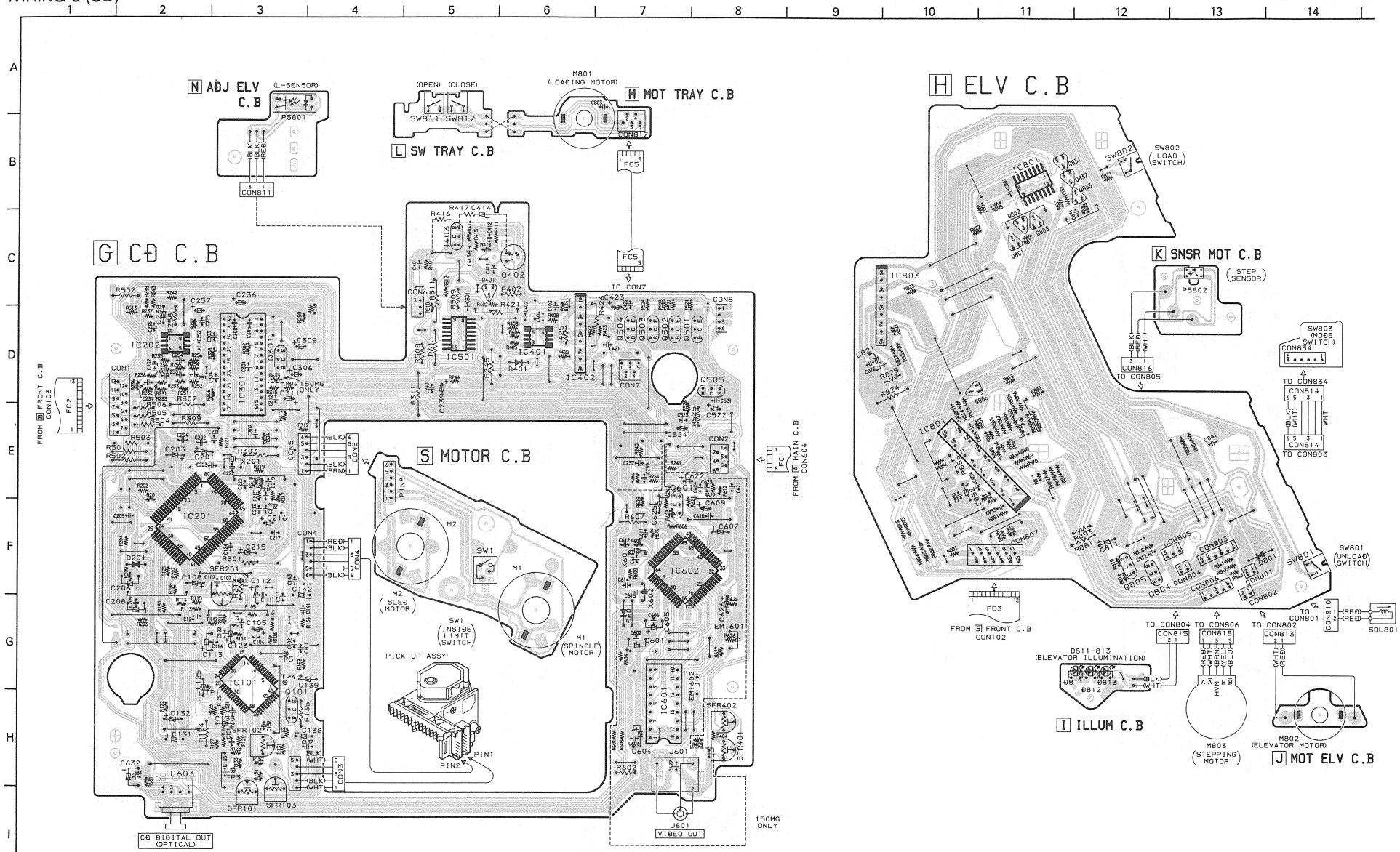
SCHEMATIC DIAGRAM-3 (MAIN: EE, K, EEZ, EZ)



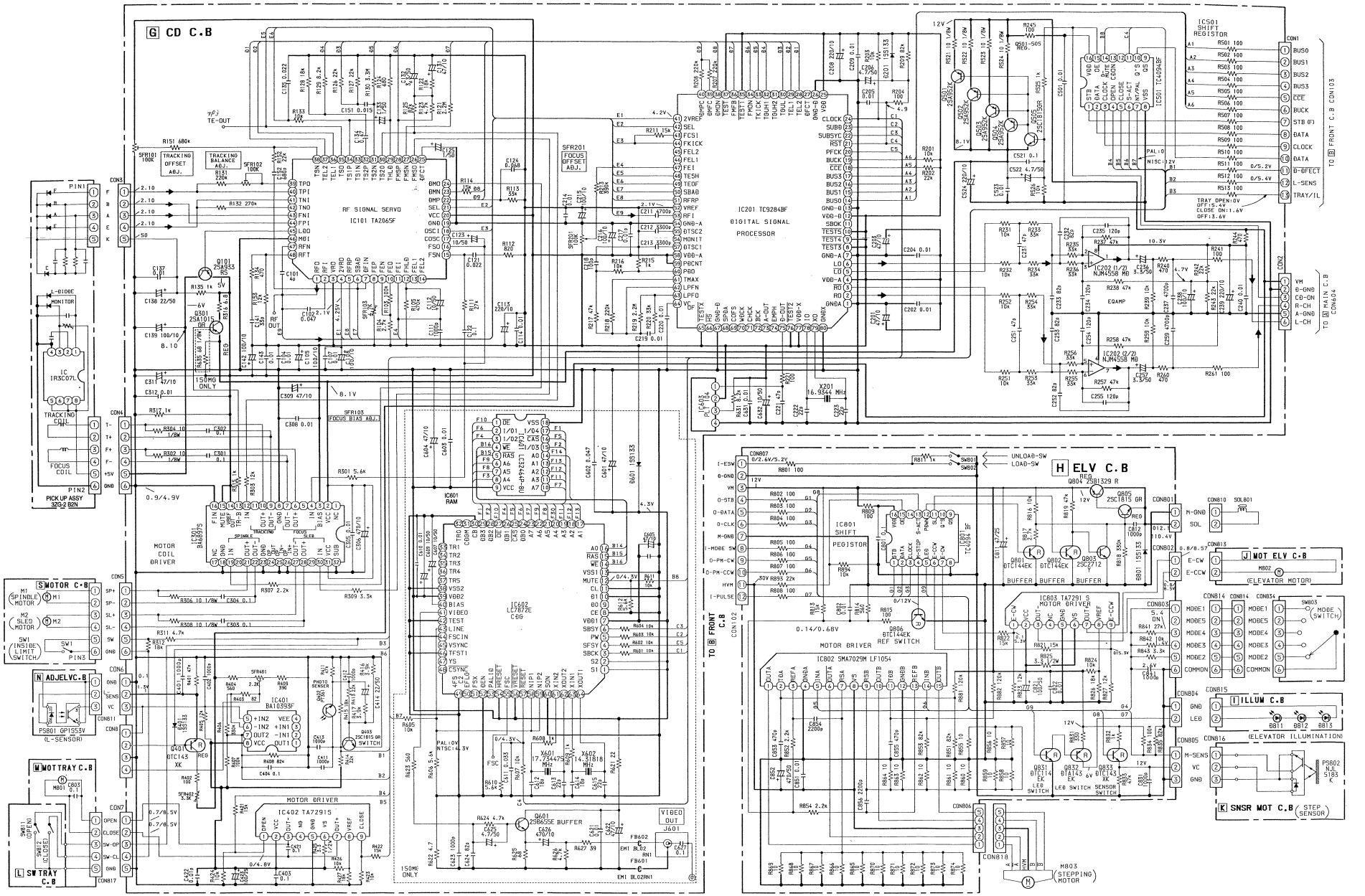
SCHEMATIC DIAGRAM-4 (FRONT)



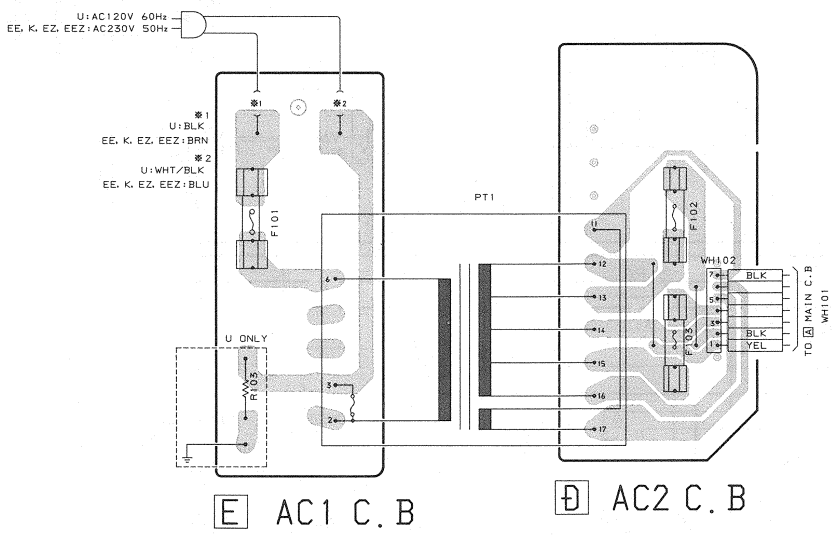

Q SNSR T C.B
LE0801
(DISC SENSOR)
CON812
C VR C.B
B FRONT C.B
FROM H ELV C.B
CON807
FC3
CON107
(WHT)
(BLK)
TO B FRONT C.B CON104
CON104
VR501
VOLUME
FROM C VR C.B
CON106
CON104
S938 ROCK
S937 DISCO
S936 POP
S939 LIVE
S935 CLASSIC
S940 HALL
S942 BBE
S941 T-BASS
IC801
IC902
(SENSOR)
LE0319-323
(FLASH WINDOW INDICATOR)
IC901
IC303
IC401
IC501
FL901
S915 POWER
S901 DEMO
LE0301, 302, 309
S902 TAPE
LE0303, 304, 310
S903 TUNER
LE0305, 304, 311
S904 VIDEO/AUX
LE0307, 308, 312
S905 CD
S934 SIP UP
S923 5
S922 4
S921 3
S920 2
S919 1
DISC/TRACK NUMBER
S928 0
S927 9
S926 8
S925 7
S924 6
UP TUNING DOWN
LE0315 S933
LE0316 S932
S931 ENTER
S930 DISC
LE0317
LE0318
LE0313 S929 CLEAR
LE0314 S918 SET
S917 REC/REC MUTE
S916 SYNC DUBB NORM/HIGH
S909
FROM A MAIN C.B
CON601
CON101
CON105
TO CON105
FC4
FROM P DECK C.B CON501
S910 OPEN/CLOSE
S911 LOAD/EJECT
J702 MIC2
J701 MIC1
KEY CONTROL
S914 #
S913 b
150MG ONLY
S912 VOCAL FADER/MULTIPLEX
S908 CD EDIT (CHECK)
S907 REV MODE (CHECK2)
S906 DOLBY NR
VR702 MIC MIXING
VR701 DIGITAL ECHO
TO CON103
FC2
FROM G CB C.B CON1
EXCEPT LH. U
150MG ONLY
HE, HR, HK ONLY
EE, K, EZ, EEZ ONLY
LH. U ONLY


N ADJ ELV C.B
(L-SENSOR)
PS801
CON811
M801
(LOADING MOTOR)
(OPEN) (CLOSE)
SW811 SW812
M MOT TRAY C.B
CON817
L SW TRAY C.B
FC5
TO CON7
G CD C.B
FROM B FRONT C.B CON103
FC2
S MOTOR C.B
M2 SLED MOTOR
SW1 INSIDE LIMIT SWITCH
M1 SPINDLE MOTOR
PICK UP ASSY
PIN1
PIN2
PIN3
FC1
FROM A MAIN C.B CON404
150MG ONLY
CD DIGITAL OUT (OPTICAL)
J601 VIDEO OUT
H ELV C.B
SW802 (LOAD SWITCH)
K SNSR MOT C.B
(STEP SENSOR)
PS802
CON816
TO CON805
SW803 (MODE SWITCH)
CON834
TO CON834
CON814
TO CON803
SW801 (UNLOAD) (SWITCH)
FC3
FROM B FRONT C.B CON102
TO CON804
TO CON806
TO CON802
TO CON801
CON815
CON818
CON813
CON810
SOL801
D811-813 (ELEVATOR ILLUMINATION)
I ILLUM C.B
M803 (STEPPING MOTOR)
M802 (ELEVATOR MOTOR)
J MOT ELV C.B

SCHEMATIC DIAGRAM-5 (CD)



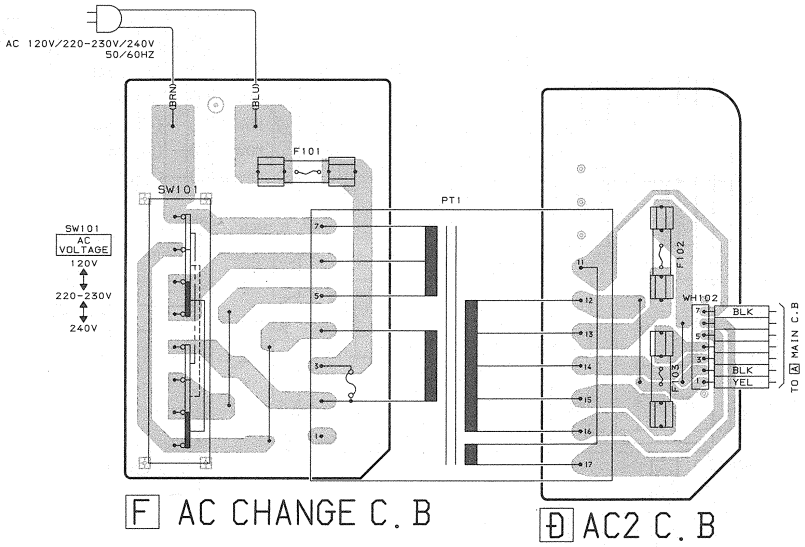
U, EE, K, EZ, EEZ MODELS



E AC1 C.B

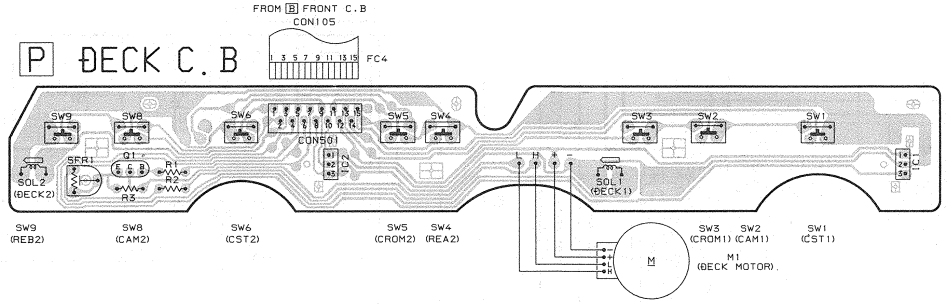
Đ AC2 C.B

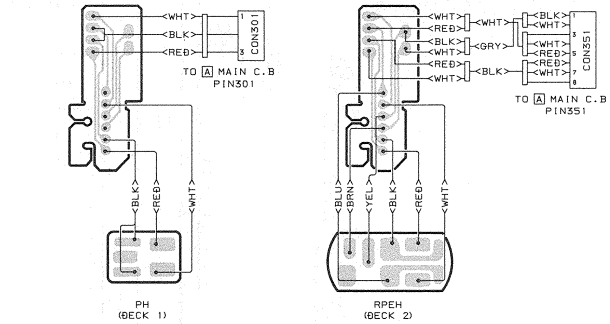
HE, HR, HK, LH, 150MG MODELS



F AC CHANGE C.B

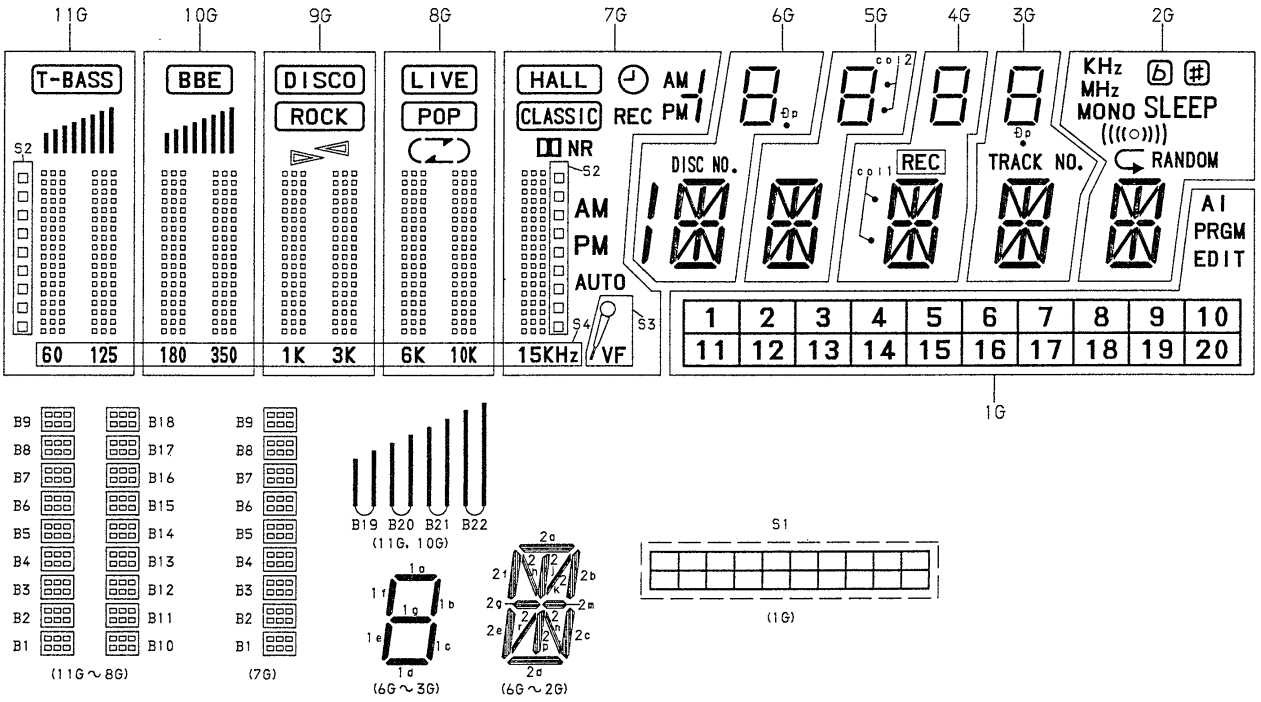
Đ AC2 C.B





FL (BL383GK) GRID ASSIGNMENT / ANODE CONNECTION

GRID ASSIGNMENT



ANODE CONNECTION

	11G	10G	9G	8G	7G	6G	5G	4G	3G	2G	1G
P1	B10	B10	B10	B10	S3	2d	2d	2d	2d	2d	**1**
P2	B1	B1	B1	B1	B1	2j, 2p	2j, 2p	2j, 2p	2j, 2p	2j, 2p	**2**
P3	B11	B11	B11	B11	**AUTO**	2n	2n	2n	2n	2n	**3**
P4	B2	B2	B2	B2	B2	2r	2r	2r	2r	2r	**4**
P5	B12	B12	B12	B12	**PM** (下)	2c	2c	2c	2c	2c	**5**
P6	B3	B3	B3	B3	B3	2e	2e	2e	2e	2e	**6**
P7	B13	B13	B13	B13	**AM** (下)	2m	2m	2m	2m	2m	**7**
P8	B4	B4	B4	B4	B4	2g	2g	2g	2g	2g	**8**
P9	B5	B5	B5	B5	B5	2f	2f	2f	2f	2f	**9**
P10	B15	B15	B15	B15	—	2b	2b	2b	2b	2b	**10**
P11	B6	B6	B6	B6	B6	2k	2k	2k	2k	2k	**11**
P12	B16	B16	B16	B16	/(上)	2h	2h	2h	2h	2h	**12**
P13	B7	B7	B7	B7	B7	2a	2a	2a	2a	2a	**13**
P14	B14	B14	B14	B14	**PM** (上)	**DISC NO.**	col2(下)	col1	**TRACK NO.**	↻	**14**
P15	B17	B17	B17	B17	**AM** (上)	Đp	col2(上)	**REC**	Đp	**RANDOM**	**15**
P16	B8	B8	B8	B8	B8	1d	1d	1d	1d	((((○))))	**16**
P17	B18	B18	B18	B18	🕘	1e	1e	1e	1e	**SLEEP**	**17**
P18	B9	B9	B9	B9	B9	1c	1c	1c	1c	**MONO**	**18**
P19	B19 (T-BASS)	B19 (BBE)	(ROCK)	(POP)	**NR**	1g	1g	1g	1g	□ (b)	**19**
P20	B20	B20	(DISCO)	(LIVE)	**REC**	1f	1f	1f	1f	□ (#)	**20**
P21	B21	B21	◁	☾	(CLASSIC)	1b	1b	1b	1b	**MHz**	**AI**
P22	B22	B22	▷	☽	(HALL)	1a	1a	1a	1a	**KHz**	**PRGM**
P23	S4	S4	S4	S4	S4	/(下)	—	—	—	—	**EDIT**
P14	S2**T-BASS**	—	**ROCK**	**POP**	S2**CLASSIC**	—	—	—	—	—	S1
P15	—	**BBE**	—	—	—	—	—	—	—	—	—
P26	—	—	**DISCO**	**LIVE**	**HALL**	—	—	—	—	—	—
P27	—	—	—	—	—	—	—	—	—	♭ #	

IC DESCRIPTION

IC, μPD78045BGF-012

Pin No.	Pin name	I/O	Description
1~7	G7~G1	I/O	FL display grid output.
8	VDD	—	Power supply terminal.
9	I-$\overline{\text{HOLD}}$	I/O	AC OFF detected input.
10	I-L-SENS	I/O	Lower limit of mechanism detected sensor input.
11	O-BUCK	I/O	CD IC control data bus clock output.
12	O-$\overline{\text{CCE}}$	I/O	CD IC control chip enable output.
13	IO-BUS3	I/O	CD IC control data bus input/output.
14	IO-BUS2	I/O	CD IC control data bus input/output.
15	IO-BUS1	I/O	CD IC control data bus input/output.
16	IO-BUS0	I/O	CD IC control data bus input/output.
17	$\overline{\text{RESET}}$	I	Reset input.
18	O-PLLCE	I/O	PLL chip enable. (AND logic of DSPCE · PLLCE, which is KC/CE).
19	O-DSPCE	I/O	DSP chip enable (AND logic of DSPCE · PLLCE, which is KC/CE).
20	AVSS	—	GND terminal.
21	I-SPEANA	I/O	Input to spectrum analyzer.
22	I-MODE-SW	I/O	Mode switch input to CD mechanism. Input to A/D.
23	I-MIC	I/O	Input to auto vocal fader. Input to A/D.
24	I-E-SW	I/O	Elevator UNLOAD/LOAD. Input to A/D.
25	I-TRAY/IL	I/O	Tray OPEN/CLOSE/INSIDE limit sensor switch A/D input.
26	I-KEY3	I/O	Key data input 3. (Input to A/D)
27	I-KEY2	I/O	Key data input 2. (Input to A/D)
28	I-KEY1	I/O	Key data input 1. (Input to A/D)
29	AVDD	—	Power supply terminal.
30	AVREF	—	+5.6V.
31	I-TMBASE	I	Clock input (8 MHz exclusive)
32	XT2	—	Not used.
33	VSS	—	GND terminal.
34, 35	X1, X2	—	4.19MHz oscillator circuit.
36	O-STB (F)	I/O	Strobe for front board shift register.
37	I-$\overline{\text{STEREO}}$	I/O	Tuner stereo signal sensor input.
38	I-$\overline{\text{TUNE}}$/IFC	I/O	Tuner · SD sensor input/IF count serial data input.
39	O-CLK	I/O	Clock for shift register.
40	O-DATA	I/O	Serial data for shift register.
41	O-PM-CW	I/O	Stepping motor control signal output.
42	O-PM-CCW	I/O	Stepping motor control signal output.
43	O-$\overline{\text{SWSCAN}}$	I/O	Segment input acknowledge output.
44	I-MS	I/O	Music search input.
45	I-$\overline{\text{D · DETECT}}$	I/O	CD disc on/off sensor input. "LOW" when disc is on and tray is in sensor.
46	I-PULSE	I/O	Pulse count input.
47	$\overline{\text{I-RMC}}$	I	System remote control input. Active " LOW".
48	IC	—	GND.

Pin No.	Pin name	I/O	Description
49	O-STB (M)	I/O	Strobe for main board shift register.
50	O-$\overline{\text{MUTE}}$	I/O	Mute output. $\overline{\text{ON}}$/OFF output.
51	O-$\overline{\text{POWER}}$	I/O	System power supply $\overline{\text{ON}}$/OFF output.
52	VDD	—	Power supply terminal.
53	P1/I-$\overline{\text{REB}}$	I/O	FL display segment output/side-B record approval switch input.
54	P2/I-$\overline{\text{REA}}$	I/O	FL display segment output/side-A record approval switch input.
55	P3/I-$\overline{\text{CST2}}$	I/O	FL display segment output/Deck2 cassette present switch input.
56	P4/I-$\overline{\text{CST1}}$	I/O	FL display segment output/Deck1 cassette present switch input.
57	P5/I-$\overline{\text{AUTO2}}$	I/O	FL display segment output/Deck2 auto stop input.
58	P6/I-$\overline{\text{AUTO1}}$	I/O	FL display segment output/Deck1 auto stop input.
59	P7/I-$\overline{\text{CAM2}}$	I/O	FL display segment output/Deck2 cam switch input.
60	P8/I-$\overline{\text{CAM1}}$	I/O	FL display segment output/Deck1 cam switch input.
61	P9/I-FMWIDE	I/O	FL display segment output/FM wide data. Input data to diode.
62	P10/I-AMST	I/O	FL display segment output/AM stereo data. Input data to diode.
63	P11/I-AM10K	I/O	FL display segment output/initial AM 10 kHz data. Input data to diode.
64	P12/I-LW	I/O	FL display segment output/LW data. Input data to diode.
65	P13/I-SW	I/O	FL display segment output/switch data. Input data to diode.
66	P14/I-BBE	I/O	FL display segment output/BBE data. Input data to diode.
67	P15/I-KEYCON	I/O	FL display segment output/key control data. Input data to diode.
68	P16/I-PAL	I/O	FL display segment output/PAL initial set-up data. Input data to diode.
69	P17/O-SPEANA C	I/O	FL display segment output/spectrum analyzer band selection output (C).
70	P18/O-SPEANA B	I/O	FL display segment output/spectrum analyzer band selection output (B).
71	VLOAD	—	Power supply terminal (-29V) for FL display.
72	P19/O-SPEANA A	I/O	FL display segment output/spectrum analyzer band selection output (A).
73	P20	I/O	FL display segment output.
74	P21	I/O	FL display segment output.
75	P22	I/O	FL display segment output.
76	P23	I/O	FL display segment output.
77～80	G11～G8	I/O	FL display grid output.

IC, LC7872E

Pin No.	Pin name	I/O	Description
1, 2	S1, S2	—	DSP select pin for CD. (Connected to VDD)
3	SBCK	O	Subcode read/write clock.
4	SFSY	I	Subcode frame sync signal.
5	PW	I	Subcode read/write data.
6	SBSY	I	Subcode block sync signal.
7	VDD1	—	Power supply for digital block. (Connected to +5V)
8	CE	I	Control pin when serial input or serial output. (Connected to GND)
9	DO	O	Serial data output. (Connected to GND)
10	DI	I	Serial data input. (Connected to GND)
11	CL	I	Clock when inputting/outputting serial data. (Connected to GND)
12	MUTE	I	Control signal disabling the subcode.
13	VSS1	—	GND for digital block.
14	$\overline{WE}$	O	DRAM control pin.
15	$\overline{RAS}$	O	DRAM control pin.
16～23	A0～A7	O	DRAM address pin.
24	DB0	I/O	DRAM data pin.
25	$\overline{CAS}$	O	DRAM control pin.
26	DB1	I/O	DRAM data pin.
27	$\overline{DE}$	O	DRAM control pin.
28	DB2	I/O	DRAM data pin.
29	DB3	I/O	DRAM data pin.
30	CE	I	"L": Normal mode "H": Color bar output (Not used)
31	CDGM	O	"H" output when CDG disk. (Not used)
32	TRANS0	O	Transparency digital output. (Not used)
33	TRANS1	O	Transparency digital output. (Not used)
34	TRANS2	O	Transparency digital output. (Not used)
35	TRANS3	O	Transparency digital output. (Not used)
36	TRANS4	O	Transparency digital output. (Not used)
37	TRANS5	O	Transparency digital output. (Not used)
38	VSS2	—	Composite video DAC GND pin.
39	VDD2	—	Composite video DAC power supply pin. (Connected to +5V)
40	BIAS	O	Capacitor connecting pin for eliminating ripple.
41	VIDEO	O	Composite video output pin (8-bit DAC output).
42	TEST	I	Test pin. Set to "L" normally. (Connected to GND)
43	LINE	I	When NP2 pin is "H": H: 263H L: 262H When NP2 pin is "L": H: 312H L: 314H (Not used)
44	FSCIN	I	Subcarrier clock input pin. (feedback resistor is built in) (Connected to GND)
45	VSYNC	O	Vertical sync signal output pin. (Not used)
46	TEST1	I	Test pin. Set to "L" normally. (Connected to GND)
47	YS	O	Superimpose control output. (Not used)
48	$\overline{CSTNC}$	O	Composite sync signal output. (Not used)

Pin No.	Pin name	I/O	Description
49	GND	—	GND.
50	EFLG	O	Error status monitor pin. (Not used)
51	FSX	O	For error status monitor trigger. (Not used)
52	DEN	I	Disk information display enable. H: BGC L: Enable (Connected to GND)
53	PALID	I	External control pin when superimposing with PAL (pull-up resistor is built in). (Not used)
54	VDD3	—	Digital power supply (+5V)
55	FSC	O	Subcarrier clock output. NTSC mode: 3.579545 MHz PAL mode: 4.433619 MHz (Not used)
56	VDD4	—	Digital power supply (+5V)
57	$\overline{\text{RESET}}$	I	Reset input pin.
58	N/$\overline{\text{P}}$1	I	NTSC/PAL selection pin. (RGB encoder) "H": NTSC "L": PAL
59	N/$\overline{\text{P}}$2	I	NTSC/PAL selection pin. (CD-G decoder) "H": NTSC "L": PAL
60	SON	I	Superimpose ON/OFF pin. (Connected to GND)
61	XIN2	I	Crystal oscillator 17.734476 MHz. (for PAL)
62	XOUT2	O	Crystal oscillator 17.734476 MHz. (for PAL)
63	XIN1	I	Crystal oscillator connection 14.31818 MHz. (for NTSC)
64	XOUT1	O	Crystal oscillator connection 14.31818 MHz. (for NTSC)

IC, TA2065F

Pin No.	Pin name	I/O	Description
1	RFO	O	RF amp (RF AMP) output terminal.
2	RFI	I	RF ripple signal generating circuit input terminal.
3	VRO	O	VR amp output terminal.
4	2VRO	O	2VR amp output terminal.
5	RFRP	O	RF ripple signal output terminal.
6	SBAD	O	Defects detection signal output terminal.
7	DFIN	I	Defect detecting comparator positive phase input terminal.
8	FEP	I	Focus error balance adjusting input terminal.
9	FEN	I	Focus error amp (FE AMP) negative phase input terminal.
10	FEO	O	Focus error amp (FE AMP) output terminal.
11	FEI	I	Focus output amp (FS AMP) positive phase input terminal.
12	FHLD	I	Hold switch terminal for defect.
13	FEL1	I	Focus gain adjusting terminal.
14	FEL2	I	Focus gain adjusting terminal.
15	FSN	I	Focus output amp (FS AMP) negative phase input terminal.
16	FSO	O	Focus output amp (FS AMP) output terminal.
17	COSC	O	Focus search signal generating capacitor connecting terminal.
18	OSCI	I	Focus search signal generating built-in current source control input terminal.
19	GND	—	Ground terminal.
20	VCC	—	Power source terminal.
21	SEL	I	Analog switch control signal input terminal.
22	DMEP	I	Disc motor amp (DM AMP) positive phase input terminal.
23	DMEN	I	Disc motor amp (DM AMP) negative phase input terminal.
24	DMEO	O	Disc motor amp (DM AMP) output terminal.
25	DFCT	I	Defect detecting comparator negative phase input terminal.
26	FMSO	O	Feed motor output amp (FMS AMP) output terminal.
27	FMSN	I	Feed motor output amp (FMS AMP) negative phase input terminal.
28	FMSP	I	Feed motor output amp (FMS AMP) positive phase input terminal.
29	THLD	I	Hold switch terminal for defect.
30	TS2O	O	Tracking servo amp 2 (TS2 AMP) output terminal.
31	TS2N	I	Tracking servo amp 2 (TS2 AMP) negative phase input terminal.
32	TS2P	I	Tracking servo amp 2 (TS2 AMP) positive phase input terminal.
33	TS1N	I	Tracking servo amp 1 (TS1 AMP) negative phase input terminal.
34	TS1P	I	Tracking servo amp 1 (TS1 AMP) positive phase input terminal.
35	TSO	O	Tracking output amp (TS AMP) output terminal.
36	TEL1	I	Tracking gain adjusting terminal.
37	TEL2	I	Tracking gain adjusting terminal.
38	TSN	I	Tracking output amp (TS AMP) negative phase input terminal.
39	TPO	O	Sub-beam I-V amp output terminal.
40	TPI	I	Sub-beam I-V amp input terminal.
41	TNI	I	Sub-beam I-V amp input terminal.

Pin No.	Pin name	I/O	Description
42	TNO	O	Sub-beam I-V amp output terminal.
43	FNI	I	Main-beam I-V amp input terminal.
44	FPI	I	Main-beam I-V amp input terminal.
45	LDO	O	Laser diode amp output terminal.
46	MDI	I	Monitor photo diode amp input terminal.
47	RFN	I	RF amp negative phase input terminal.
48	RFT	I	RF amp peaking terminal.

IC, TC9284F

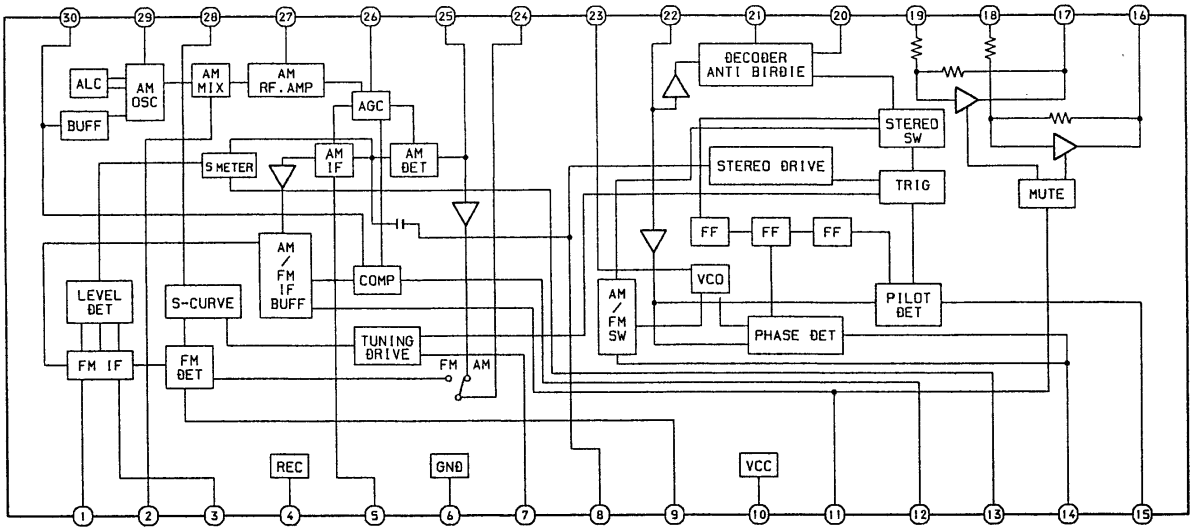
Pin No.	Pin Name	I/O	Description
1	GNDA	—	D/A converter R-channel analog GND
2	RO	O	R-channel data positive output
3	$\overline{RO}$	O	R-channel data inverted output
4	VDA	—	D/A converter power supply (+5 V)
5	$\overline{LO}$	O	L-channel data inverted output
6	LO	O	L-channel data positive output
7	GNDA	—	D/A converter L-channel analog GND
8～10	$\overline{TEST3}$～$\overline{TEST5}$	I	TEST pin. Normally "H" (+5 V)
11	SBOK	O	Sub code data CRCC judgment result output. Judgment result OK: H (Not used)
12	VDDD	—	Digital power supply (+5 V)
13	GNDD	—	Digital GND
14～17	BUS0～BUS3	I/O	µprocessor interface, data input/output
18	CCE	I	µprocessor interface, chip enable signal input. When "L" : BUS 3～0 are active
19	BUCK	I	µprocessor interface, clock input
20	PFCK	O	PB frame sync output
21	$\overline{RST}$	I	Reset signal input. "L" at reset
22	SUBSYC	O	Sub code block sync output. When sub code is detected, "H" at S1 position
23	SUBD	O	Sub code P～W output
24	CLCK	I	Sub code P～W data read clock input
25	VDDD	—	Digital power supply (+5 V)
26	GNDD	—	Digital GND
27	DFCT	O	Defect detection signal output. When defect is detected: "VREF" , or "HiZ"
28	TEL2	O	Tracking gain adjustment analog switch output. "VREF" , or "HiZ"
29	TEL1	O	Tracking gain adjustment analog switch output. "VREF" , or "HiZ"
30	TGUL	O	Analog switch output for tracking servo gain up. Polarity in gain-up mode and normal mode can be selected by command
31	TGUH2	O	Analog switch output for tracking servo gain up. "HiZ" for gain-up, normally "VREF" . TGUH1 during normal playback. TGUH2: not used
32	TUGH1	O	
33	TKIC	O	Tracking actuator kick signal output. NKICx and CKICx are used for kick during tracking gain adjustment. "2VREF" for outermost track. "O" for moving toward inner track. Normally "HiZ"
34	FMON	O	Analog switch output to turn ON/OFF the feed servo "HiZ" to turn ON servo. "VREF" to turn OFF servo
35	$\overline{TEST1}$	I	TEST pin. Normally "H" (Connected to +5 V)
36	FMFB	O	Feed motor FWD/BWD direction control signal output. "2VREF" for outmost track. "O" for moving toward inner track. Normally "HiZ"
37	$\overline{TEST}$	I	TEST pin. Normally "H" or open (Connected to +5 V)
38	DMON	O	Analog switch output to select gain of the disc motor drive circuit. "HiZ" for CLV servo OFF, "HiZ" or "VREF" can be selected by command

<table>
<tr><th>Pin No.</th><th>Pin Name</th><th>I/O</th><th>Description</th></tr>
<tr><td>39</td><td>DMFC</td><td>O</td><td>Disc motor CLV servo AFC signal output
<table>
<tr><th>Operation</th><th>Command</th><th>DMFC output</th></tr>
<tr><td>Motor acceleration</td><td>DMFK</td><td>“2VREF”</td></tr>
<tr><td>CLV servo ON</td><td>DMSV</td><td>AFC signal (PWM)</td></tr>
<tr><td>Motor brake</td><td>DMBK</td><td>“L”</td></tr>
<tr><td>CLV servo OFF</td><td>DMOFF</td><td>“VREF”</td></tr>
</table></td></tr>
<tr><td>40</td><td>DMPC</td><td>O</td><td>Disc motor CLV servo APC signal output</td></tr>
<tr><td>41</td><td>2VREF</td><td>—</td><td>Analog power supply (twice the “VREF” voltage)</td></tr>
<tr><td>42</td><td>SEL</td><td>O</td><td>Servo mode select output. It turns ON/OFF the laser diode (LD) and focus servo.
<table>
<tr><th>SEL output</th><th>LD</th><th>Focus servo</th><th>Operating mode</th></tr>
<tr><td>“L”</td><td>OFF</td><td>OFF</td><td>LD OFF</td></tr>
<tr><td>“HiZ”</td><td>ON</td><td>OFF</td><td>Focus search</td></tr>
<tr><td>“H”</td><td>ON</td><td>ON</td><td>Focus ON
(normal play)</td></tr>
</table></td></tr>
<tr><td>43</td><td>FCSI</td><td>O</td><td>Focus actuator drive signal output during focus search mode. “VDDA” to move the lens far from disc. “L” to move the lens closer to disc. Normally “HiZ”</td></tr>
<tr><td>44</td><td>FKIC</td><td>O</td><td>Focus actuator drive signal output during focus adjustment mode. “VDDA” to move the lens far from disc. “L” to move the lens closer to disc. Normally “HiZ”
(Not used)</td></tr>
<tr><td>45, 46</td><td>FEL1, FEL2</td><td>O</td><td>Focus gain adjustment analog switch output. “VREF” or “HiZ” (Not used)</td></tr>
<tr><td>47</td><td>FEI</td><td>I</td><td>Focus error signal input</td></tr>
<tr><td>48</td><td>TESH</td><td>I</td><td>Analog switch input to track error signal sample-and-hold</td></tr>
<tr><td>49</td><td>TEOF</td><td>O</td><td>Focus gain adjustment analog switch output. “VREF” or “HiZ”</td></tr>
<tr><td>50</td><td>SBAD</td><td>I</td><td>Sub beam added signal input</td></tr>
<tr><td>51</td><td>RFRP</td><td>I</td><td>RF ripple signal input</td></tr>
<tr><td>52</td><td>VREF</td><td>—</td><td>Analog power supply</td></tr>
<tr><td>53</td><td>RFI</td><td>I</td><td>RF signal input</td></tr>
<tr><td>54</td><td>GNDA</td><td>—</td><td>Analog GND</td></tr>
<tr><td>55</td><td>DTSC 2</td><td>O</td><td>Data slice control EFM signal inverted output</td></tr>
<tr><td>56</td><td>MONI T</td><td>O</td><td>Internal signal monitored output. EFMO, PLCK or LOCK signals can be selected by command. Can be muted (Not used)</td></tr>
<tr><td>57</td><td>DTSC 1</td><td>O</td><td>Data slice control EFM signal positive polarity output</td></tr>
<tr><td>58</td><td>VDDA</td><td>—</td><td>Analog power supply (+5 V)</td></tr>
<tr><td>59</td><td>PDCNT</td><td>I</td><td>PDO output control signal input. “L” to fix to “HiZ” forcibly. “H” : normal output
(Connected to +5 V)</td></tr>
<tr><td>60</td><td>PDO</td><td>O</td><td>Phase error signal between EFM and PLCK signals is output</td></tr>
<tr><td>61</td><td>TMAX</td><td>O</td><td>TMAX detected result output
<table>
<tr><th>TMAX detected result</th><th>TMAX output</th></tr>
<tr><td>Longer than specified cycle</td><td>“L”</td></tr>
<tr><td>Shorter than specified cycle</td><td>“2VREF”</td></tr>
<tr><td>Within specified cycle</td><td>“HiZ”</td></tr>
</table></td></tr>
</table>

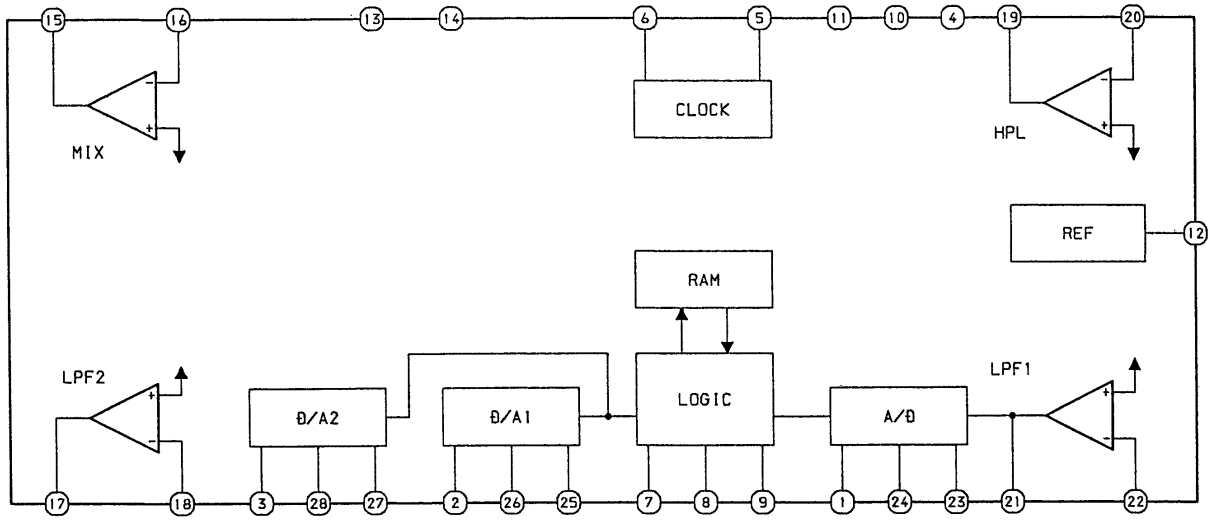
Pin No.	Pin Name	I/O	Description
62	LPFN	I	Low-pass filter amplifier inverted input
63	LPFO	O	Low-pass filter amplifier output
64	VCOF	O	VCO filter output
65	TESTX	I	TEST pin. Normally "H" or "L" (Connected to +5 V)
66	$\overline{HS}$	O	Double speed mode output. "H" : normal speed. "L" : double speed (Not used)
67	GNDD	—	Digital GND
68	SPDA	O	Processor status signal output (Not used)
69	COFS	O	Correction circuit frame clock (7.35 kHz) output (Not used)
70	WDCK	O	Word clock (88.2 kHz) output. SUBQ, BUF0V or 1PF can be selected by the μprocessor command (Not used)
71	CHCK	O	Channel clock (44.1 kHz) output. "L" for L-channel. "H" for R-channel (Not used)
72	BCK	O	Bit clock (1.4112 MHz) output (Not used)
73	AOUT	O	Audio data output (Not used)
74	EMPH	O	Emphasis ON/OFF select signal. "H" : emphasis ON. "L" for emphasis OFF (Not used)
75	DOUT	O	DIGITAL SIGNAL output
76	$\overline{TEST2}$	I	TEST pin. Normally "H" (Connected to +5 V)
77	VDDX	—	Crystal oscillator circuit power supply (+5 V)
78	XI	I	External crystal oscillator is connected. (Crystal oscillator frequency 16.9344 MHz)
79	XO	O	External crystal oscillator is connected. (Crystal oscillator frequency 16.9344 MHz)
80	GNDX	—	Crystal oscillator GND

IC BLOCK DIAGRAM

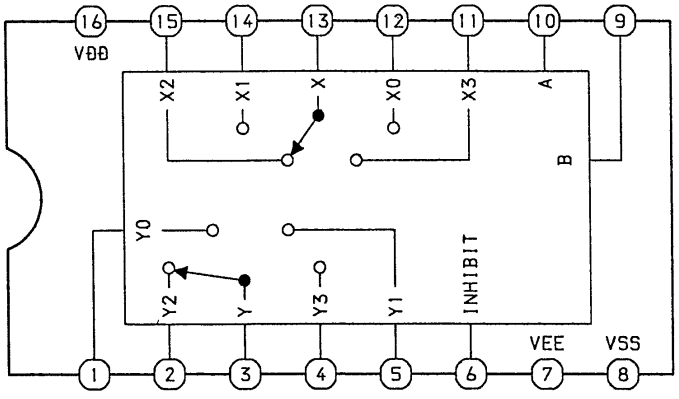
IC, LA1836



IC, M65840



IC, TC4052

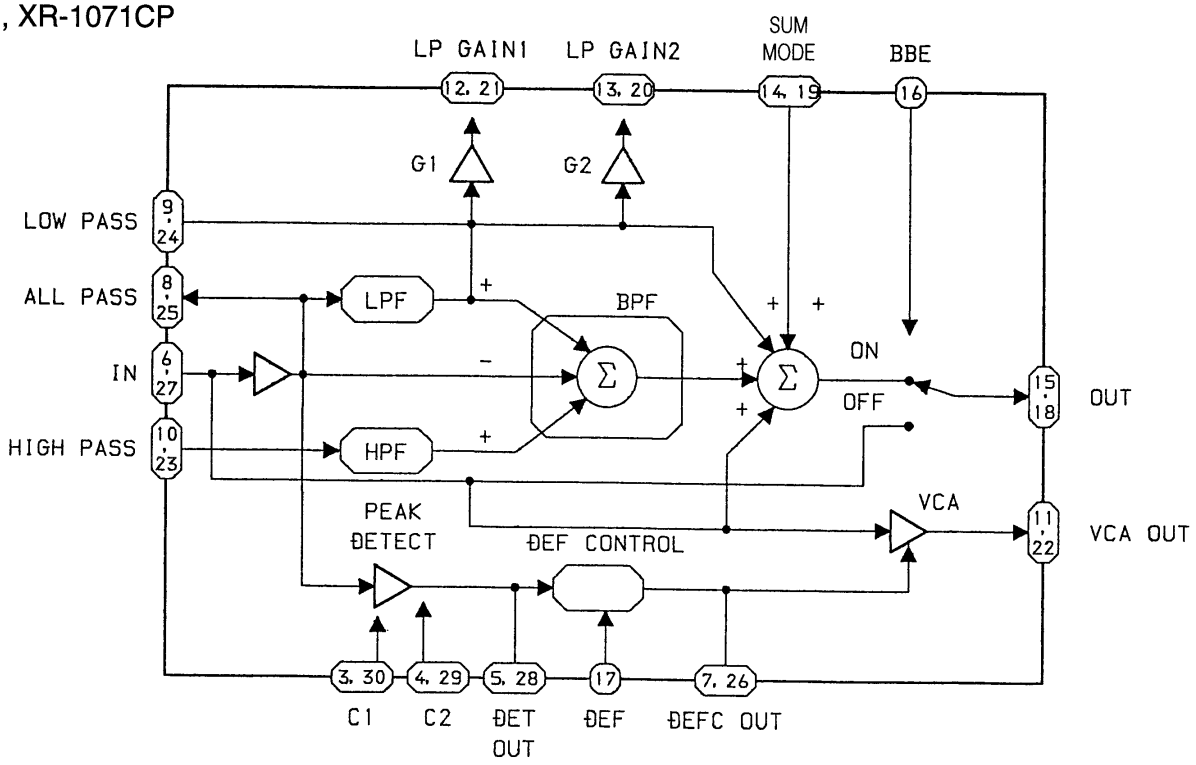


TRUTH TABLE

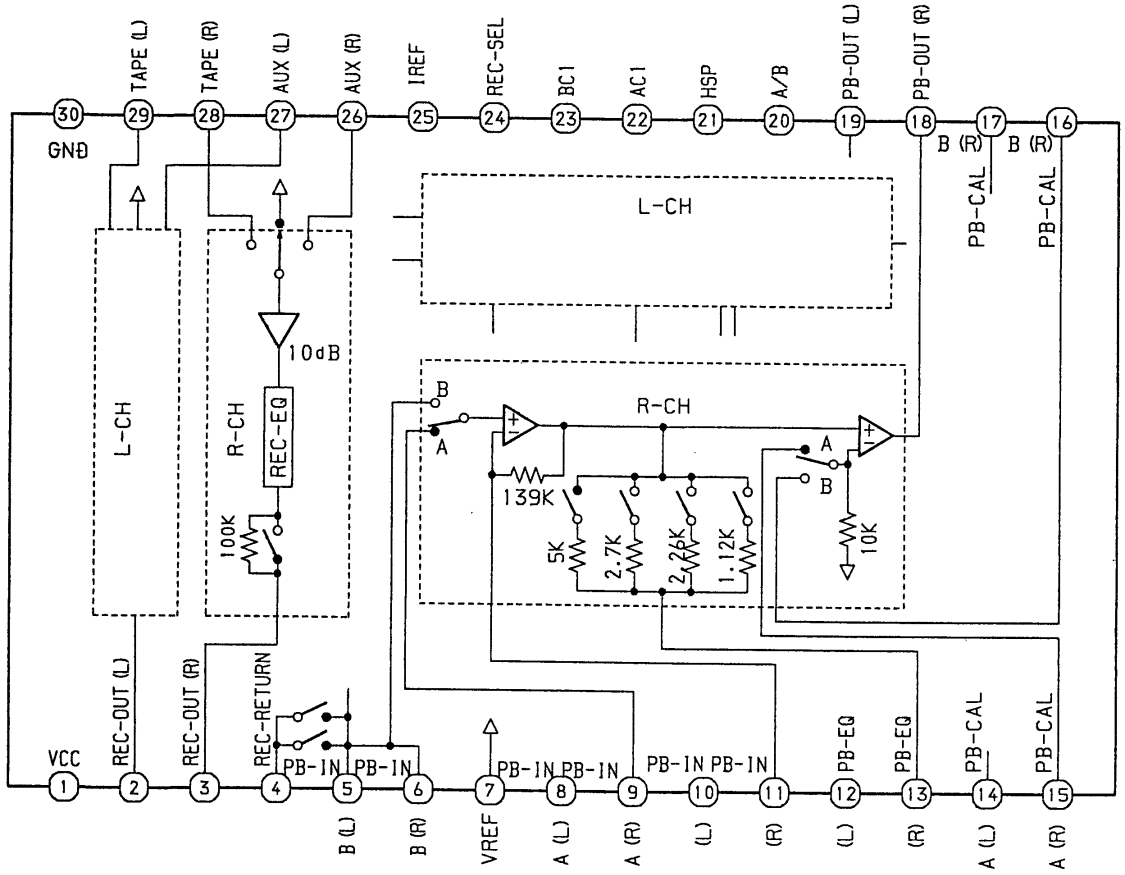
CONTROL INPUTS			ON SWITCH	
INHIBIT	B	A		
L	L	L	Y0	X0
L	L	H	Y1	X1
L	H	L	Y2	X2
L	H	H	Y3	X3
H	X	X	—	—

L:LOW LEVEL
H:HIGH LEVEL
H:IRRELEVANT

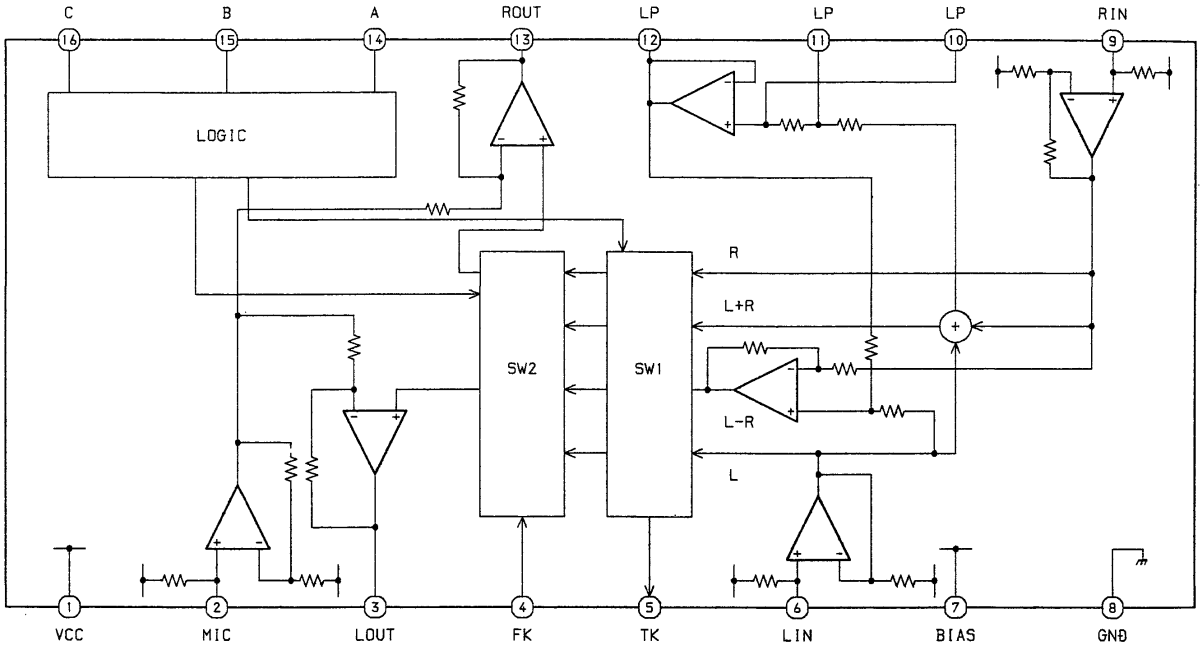
IC, XR-1071CP



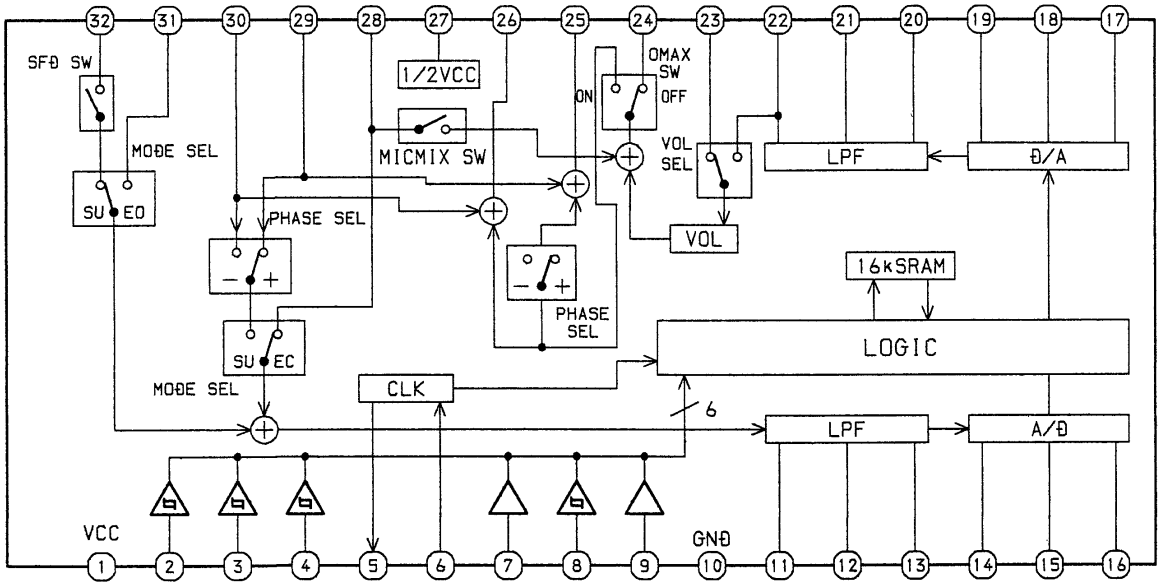
IC, HA12185NT



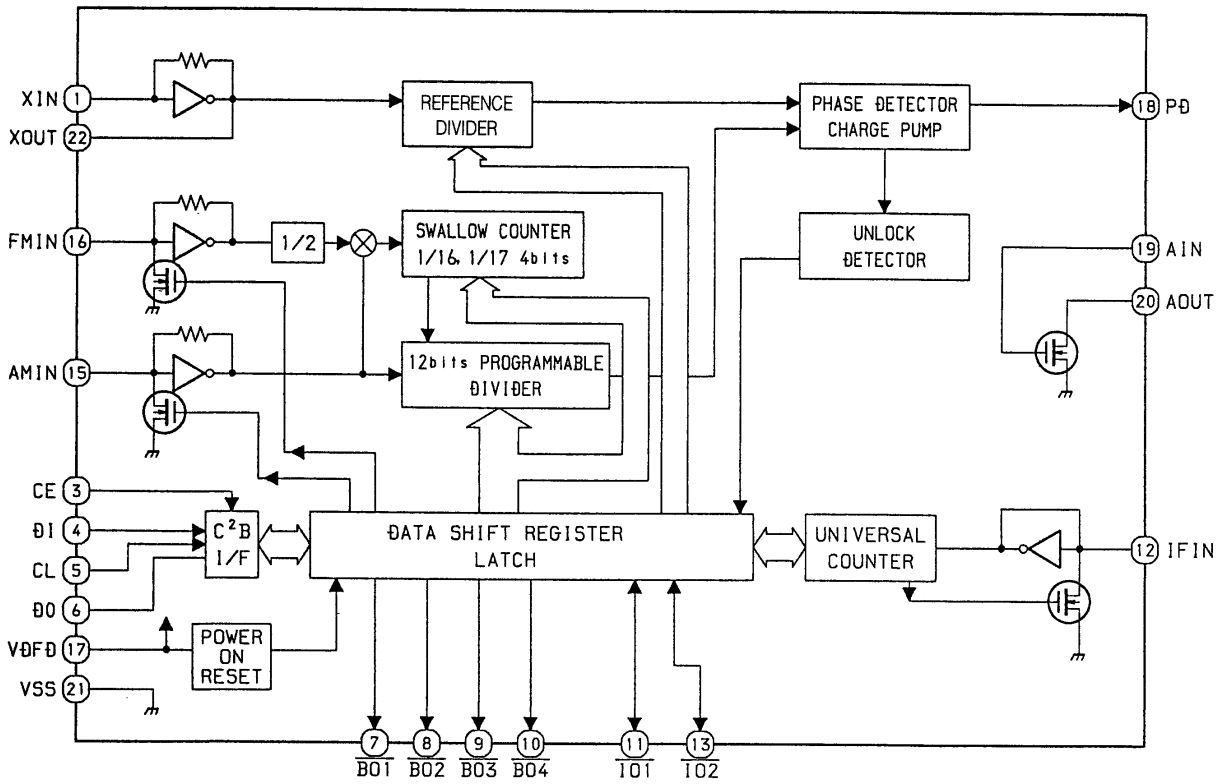
IC, BA3837



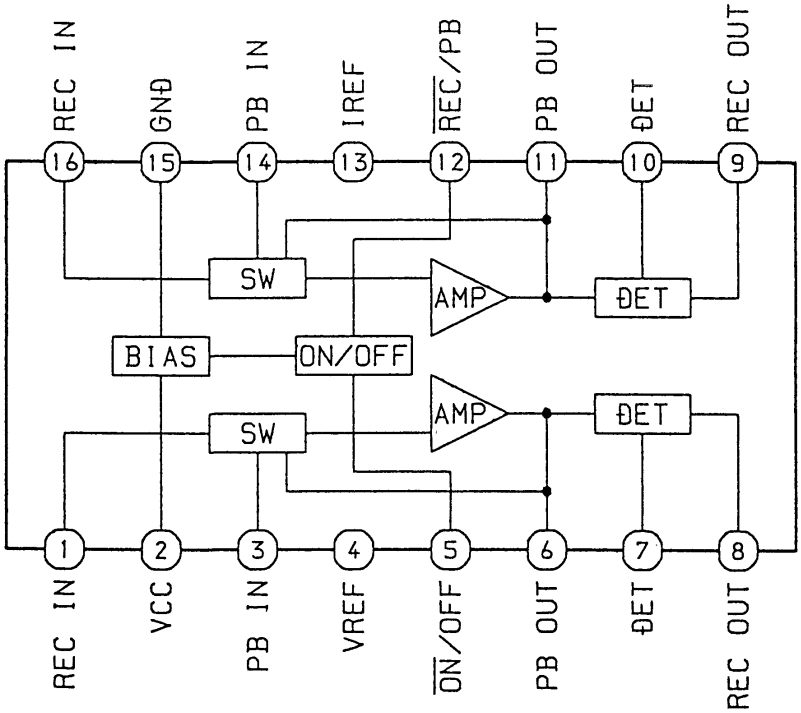
IC, M65846



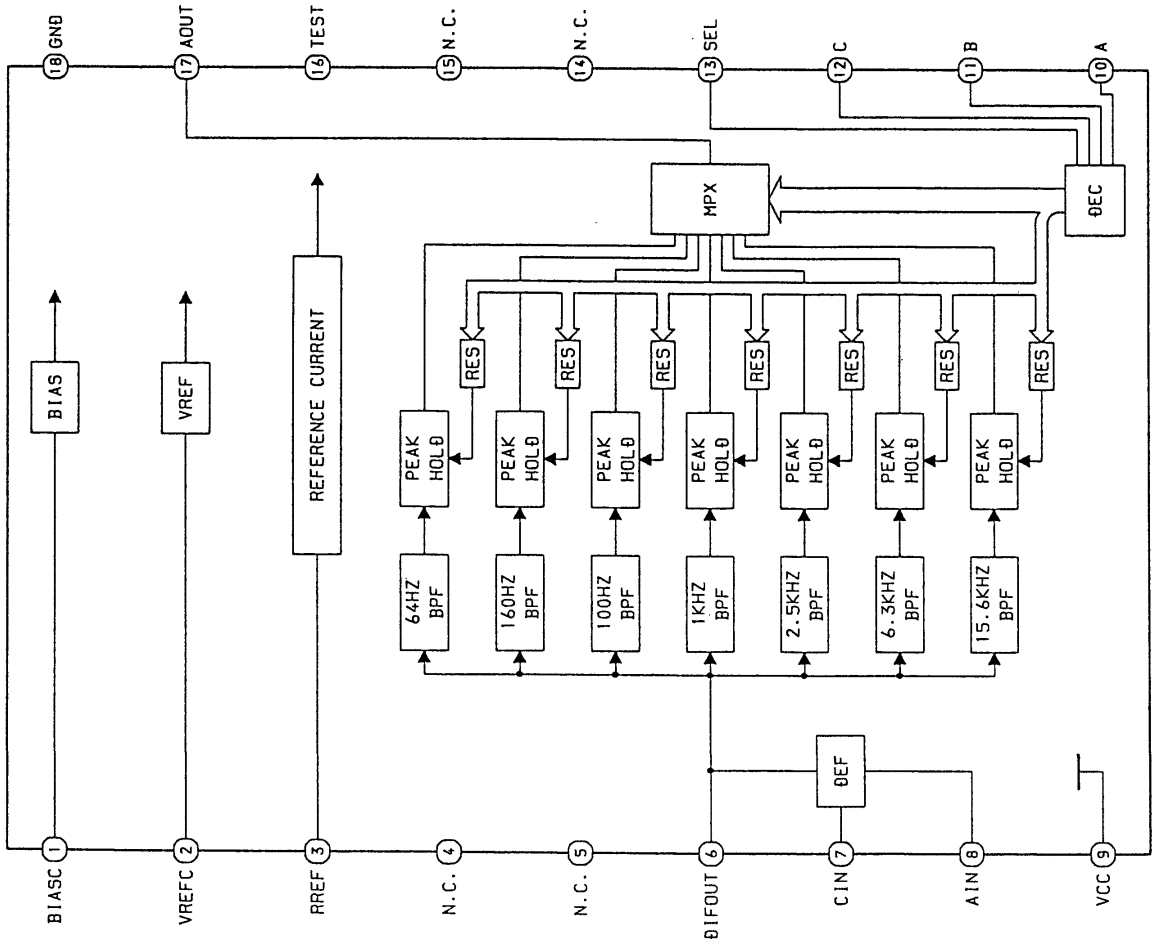
IC, LC72131

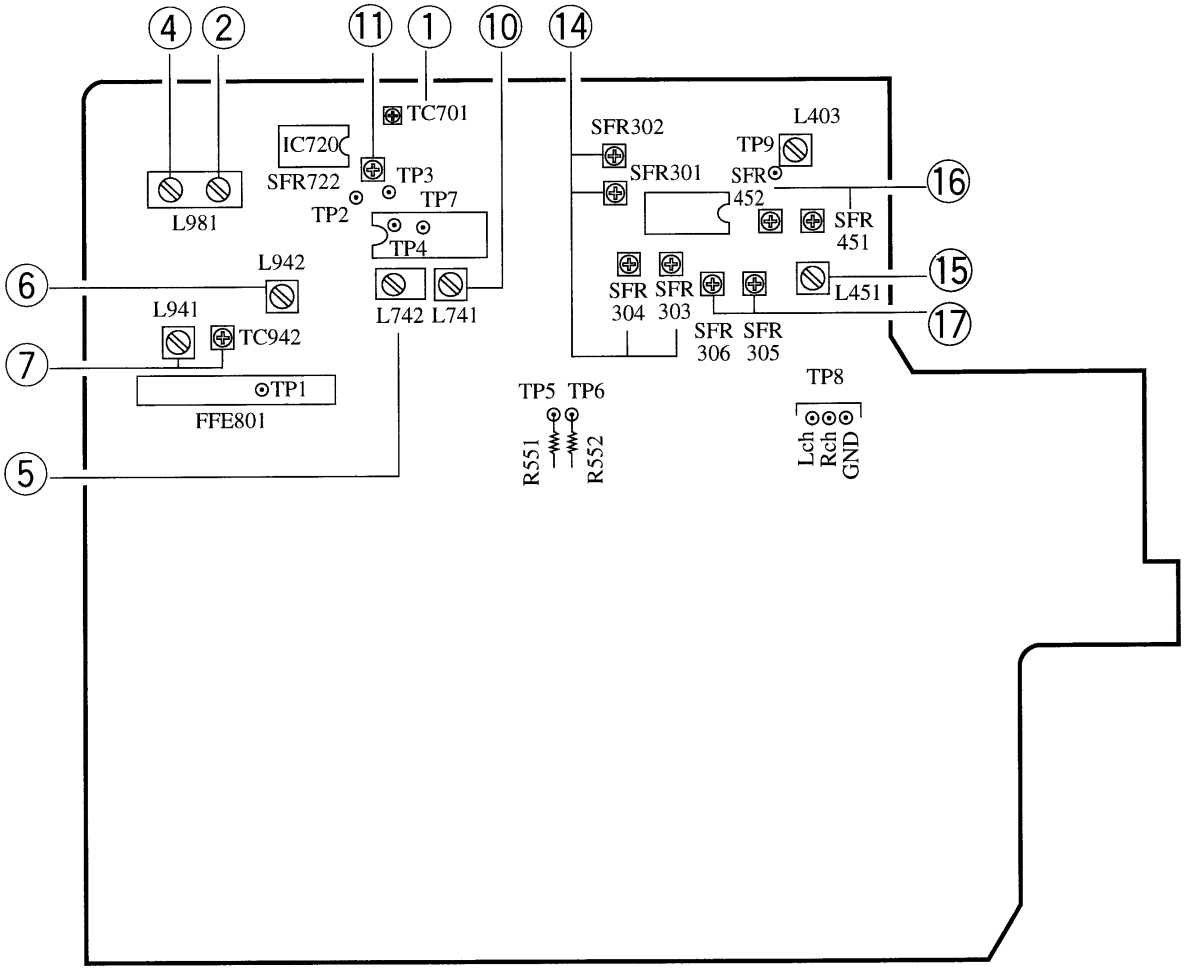


IC, HA12134



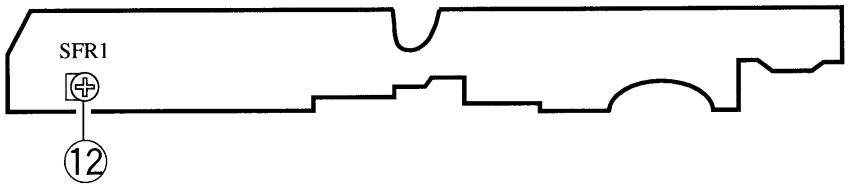
IC, BA3834S


GND
AOUT
TEST
N.C.
N.C.
SEL
C
B
A
MPX
DEC
BIAS
VREF
REFERENCE CURRENT
RES
PEAK HOLD
64HZ BPF
160HZ BPF
100HZ BPF
1KHZ BPF
2.5KHZ BPF
6.3KHZ BPF
15.6KHZ BPF
DEF
BIASC
VREFC
RREF
N.C.
N.C.
DIFOUT
CIN
AIN
VCC

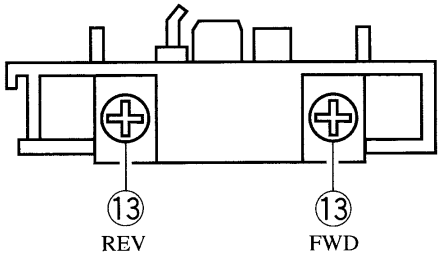


A MAIN C.B

P DECK C.B



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



TUNER SECTION

1. Clock Check (EXCEPT EE, K, EEZ, EZ)
   Settings: • Test point: TP2
   Method: Set to MW (AM) 1710kHz and check that the test point is 2160kHz±0.04kHz.

1. Clock Check (EE, K, EEZ, EZ MODELS)
   Settings: • Test point: TP2
   Method: Set to MW 1602kHz and check that the test point becomes 2052kHz±0.01kHz.

2. MW VT Adjustment (HE, HR HK, 150MG MODELS)
   Settings: • Test point: TP1
   • Adjustment location: L981
   Method: Set to MW 1710kHz adjust L981 so that the test point becomes 8.5V±0.05V.

3. AM VT Check (LH, U MODELS)
   Settings: • Test point: TP1
   Method: Set to AM 1710kHz and check that the test point is 7.0±1.0V.

3. MW VT Check (HE, HR HK, 150MG MODELS)
   Settings: • Test point: TP1
   Method: Set to MW 530kHz and check that the test point is more than 0.3V.

3. MW VT Check (EE, K, EEZ, EZ MODELS)
   Settings: • Test point: TP1
   Method: Set to MW 1602kHz and check that the test point is 6.8±1.0V.

4. MW (AM) Tracking Adjustment (EXCEPT EE, K, EEZ, EZ)
   Settings: • Test point: TP5, TP6
   • Adjustment location: L981
   Method: Set to AM 1000kHz and adjust L981 that the test point becomes maximum.

4. MW Tracking Adjustment (EE, K, EEZ, EZ MODELS)
   Settings: • Test point: TP5, TP6
   • Adjustment location: L981
   • Input level: 18dB
   Method: Set to MW 999kHz and adjust L981 that the test point becomes maximum.

5. MW (AM) IF Adjustment
   Settings: • Test point: TP5, TP6
   L742 ..... 450kHz

6. SW VT Adjustment (HE, HR HK, 150MG MODELS)
   Settings: • Test point: TP1
   • Adjustment location: L942
   Method: Set to SW 17.9MHz adjust L942 so that the test point becomes 8.0V±0.05V.

6. LW VT Adjustment (EE, K, EEZ, EZ MODELS)
   Settings: • Test point: TP1
   • Adjustment location: L942
   Method: Set to LW 144kHz adjust L942 so that the test point becomes 1.5V±0.05V.

7. SW Tracking Adjustment (HE, HR HK, 150MG MODELS)
   Settings: • Test point: TP5, TP6
   • Adjustment location:
   L941 ..... 5.95MHz
   TC942 ..... 17.9MHz
   Method: Set up TC942 to center before adjustment. The level at 5.95MHz is adjusted to MAX by L941. Then the level at 17.9MHz is done by TC942.

7. LW Tracking Adjustment (EE, K, EEZ, EZ MODELS)
   Settings: • Test point: TP5, TP6
   • Adjustment location:
   L941 ..... 144kHz
   TC942 ..... 290kHz

8. FM VT Check (EXCEPT EE, K, EEZ, EZ)
   Settings: • Test point: TP1
   Method: Set to FM 87.5MHz 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 8.0V.

8. FM VT Check (EE, K, EEZ, EZ MODELS)
   Settings: • Test point: TP1
   Method: Set to FM 87.5MHz and check that the test point is more than 1.5V. Then set to FM 108MHz and check that the test point is less than 8.2V.

9. FM Tracking Check (EXCEPT EE, K, EEZ, EZ)
   Settings: • Test point: TP5, TP6
   Check that the test point is 2±6dB and distortion is less than 3% at FM 98.0MHz.

9. FM Tracking Check (EE, K, EEZ, EZ MODELS)
   Settings: • Test point: TP5, TP6
   Check that the test point is 6±6dB and distortion is less than 3% at FM 98.0MHz.

10. 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%.

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

TAPE SECTION

12. Tape speed Adjustment (DECK2)
    Settings:
    - Test tape: TTA-100
    - Test point: TP8
    - Adjustment location: SFR1

    Method: Play back the test tape, adjust SFR1 for 3000Hz±5Hz.

13. Azimuth Adjustment (DECK1, DECK2)
    Settings:
    - Test tape: TTA-300
    - 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. Next, perform on each FWD PLAY and REV PLAY mode.

14. PB Sensitivity Adjustment (DECK1, DECK2)
    Settings:
    - Test tape: TTA-200
    - Test point: TP8
    - Adjustment location: (DECK1)
      SFR301 (Lch)
      SFR302 (Rch)
      (DECK2)
      SFR303 (Lch)
      SFR304 (Rch)

    Method: Play back the test tape and adjust so that the output becomes 300mV.

15. Bias Frequency Adjustment (DECK2)
    Settings:
    - Test tape: TTA-602
    - Test point: TP9
    - Adjustment location: L451
    - BEAT SW OFF (EE, K, EEZ, EZ ONLY)

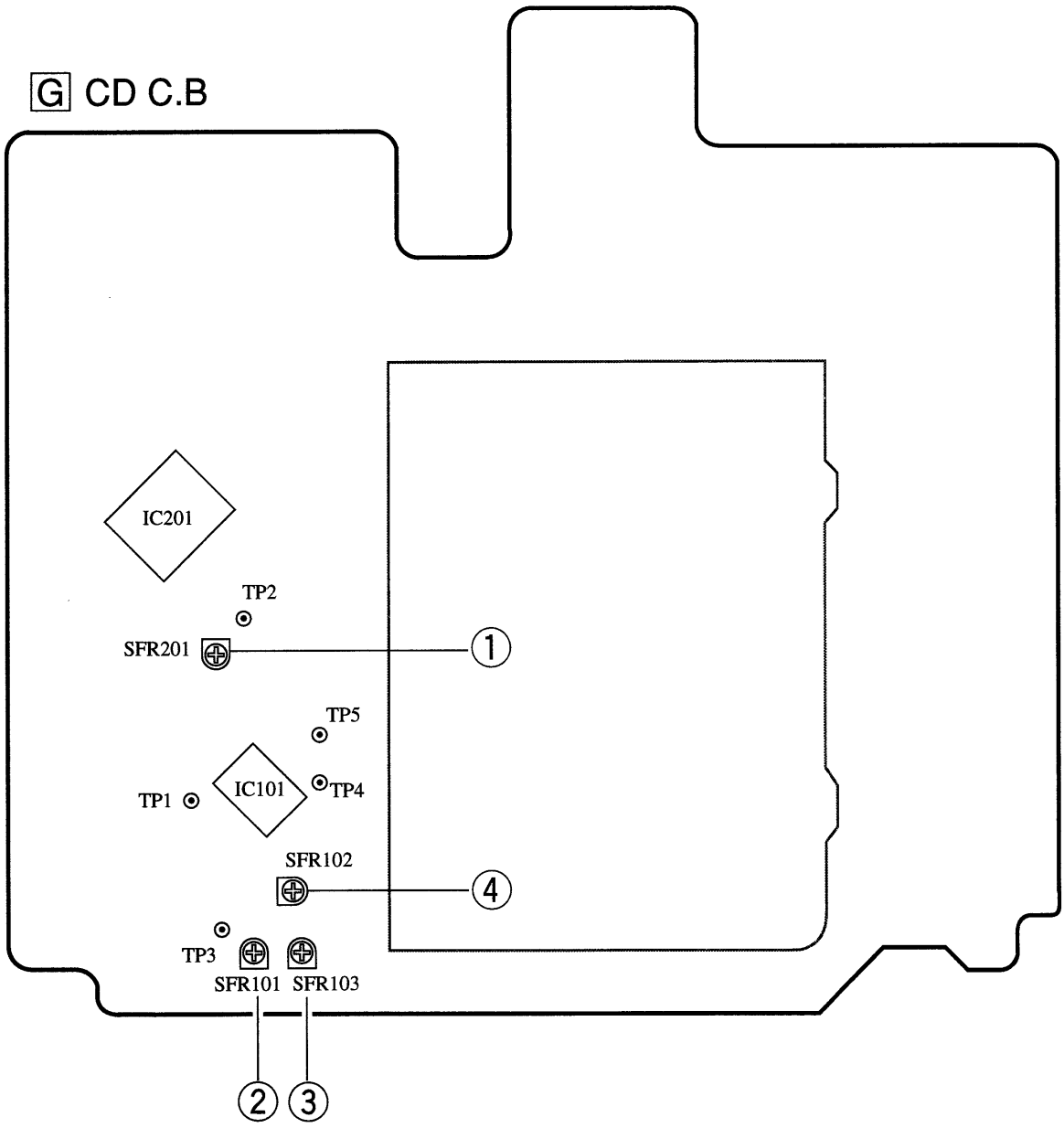
    Method: Set to DECK2 to the record mode and adjust L451 so that the frequency at TP9 is minimum.

16. REC/PB Frequency Response Adjustment (DECK2)
    Settings:
    - Test tape: TTA-602
    - Test point: TP8
    - Input signal: 1kHz/10kHz (AUX IN/AUX Vol. MAX)
    - Adjustment location: SFR451 (Lch) SFR452 (Rch)

    Method: Apply a 1kHz signal and adjust attenuator so that the level at the test point is 210mV. Record and play back the 1kHz and 10kHz signal and adjust so that the output level of 10kHz signal is 0dB±0.5dB for 1kHz signal.

17. REC/PB Sensitivity Adjustment (DECK2)
    Settings:
    - Test tape: TTA-602
    - Test point: TP8
    - Input signal: 1kHz/10kHz (AUX IN/AUX Vol. MAX)
    - Adjustment location: SFR305 (Lch) SFR306 (Rch)

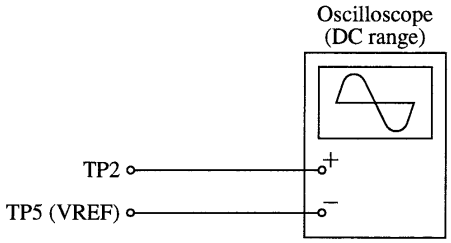
    Method: Apply a 1kHz signal and adjust attenuator so that the level at the test point is 21mV. Record and play back the 1kHz and 10kHz signal and adjust so that the output level is 21mV±0.5dB.


G CD C.B
IC201
TP2
SFR201
1
TP5
TP1
IC101
TP4
SFR102
4
TP3
SFR101
SFR103
2
3

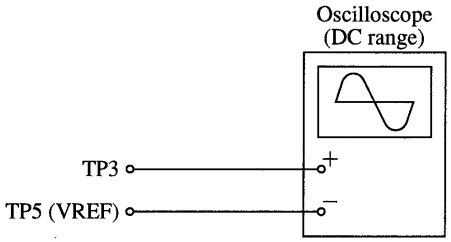
(CD SECTION)

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

1. Focus offset Adjustment
   ① Make short-circuit between TP4 and TP5 by wire.
   ② Connect an oscilloscope between test points TP2 and TP5.
   ③ Turn on the main power to the CD player.
   ④ Adjust SFR201 so that the offset level is 0±5mV with reference to VREF.
   ⑤ Remove short-circuit after completing adjustment.

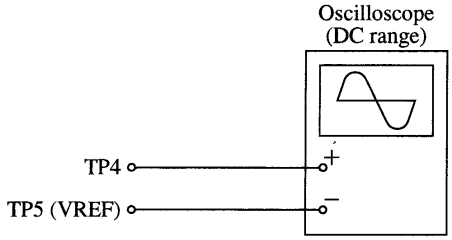


2. Tracking offset Adjustment

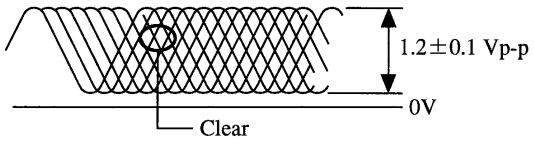


   ① Make short-circuit between TP1 and TP5 by wire.
   ② Connect an oscilloscope between test points TP2 and TP5.
   ③ Turn on the main power to the CD player.
   ④ Adjust SFR101 so that the offset level is 0±5mV with reference to VREF.
   ⑤ Remove short-circuit after completing adjustment.

3. Focus Bias Adjustment
   Make the focus bias adjustment when replacing and repairing the optical block.

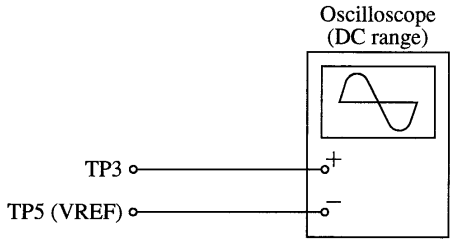


   ① Connect an oscilloscope to test points TP4 and TP5.
   ② Turn on the power switch.
   ③ Insert test disc TCD-782 (YEDS-18) and play back the second composition.
   ④ Adjust SFR103 so that the level of RF wave to be maximum and clear.

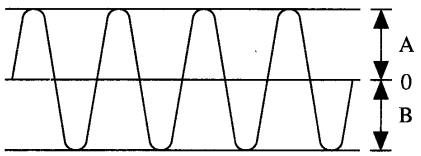


VOLT/DIV: 50mV
TIME/DIV: 0.5μS

4. Tracking Balance Adjustment



   ① Make short-circuit between TP1 and TP5 by wire.
   ② Connect an oscilloscope to test points TP3 and TP5.
   ③ Turn on the power switch.
   ④ Insert test disc TCD-782 (YEDS-18) and press the PLAY (▶) button.
   ⑤ Adjust SFR102 so that the waveform on the oscilloscope is vertically symmetrical as shown in the figure below.



A = B

VOLT/DIV: 20mV
TIME/DIV: 1mS

PRACTICAL SERVICE FIGURE

TUNER SECTION

< FM SECTION > HE, HR, HK, LH, U, 150MG MODELS

IHF Sensitivity:	8dB±6dB (87.5MHz/108.0MHz)
(THD 3%)	6dB±6dB (98.0MHz)
S/N 50dB Quieting sensitivity:	31dB±7dB (87.5/98.0/108.0MHz)
Signal to noise ratio:	More than 68dB (98.0MHz)
Distortion:	Less than 1.3% (98.0MHz)
Stereo separation:	More than 25dB (98.0MHz)
Intermediate frequency:	10.7MHz

< FM SECTION > EE, K, EEZ, EZ MODELS

IHF Sensitivity:	7dB±6dB (87.5MHz)
(THD 3%)	4dB±6dB (98.0MHz)
	4dB±6dB (108.0MHz)
S/N 50dB Quieting sensitivity:	32dB±7dB (87.5/98.0/108.0MHz)
Signal to noise ratio:	EE, K: More than 67dB (98.0MHz)
	EEZ, EZ: More than 65dB (98.0MHz)
Distortion:	Less than 1.3% (98.0MHz)
Stereo separation:	More than 22dB (98.0MHz)
Intermediate frequency:	10.7MHz

< MW SECTION > EXCEPT LH, U MODELS

Sensitivity:	55dB± $\frac{8}{6}$ dB (603kHz)
(S/N 20dB)	54dB±6dB (999kHz/1404kHz)
Distortion:	Less than 1.5% (999kHz)
Stereo separation:	More than 12dB (999kHz)
Intermediate frequency:	450kHz

< AM SECTION > LH, U MODELS

Sensitivity:	55dB± $\frac{8}{6}$ dB (600kHz)
(S/N 20dB)	54dB±6dB (1000kHz/1400kHz)
Distortion:	Less than 1.5% (1000kHz)
Stereo separation:	More than 12dB (1000kHz)
Intermediate frequency:	450kHz

< SW SECTION > HE, HR, HK 150MG MODELS

Sensitivity:	32dB± $\frac{5}{5}$ dB (5.95MHz)
(S/N 20dB)	33dB± $\frac{5}{3}$ dB (12MHz/17.9MHz)
Distortion:	Less than 1.5% (5.00MHz)
Intermediate frequency:	450kHz

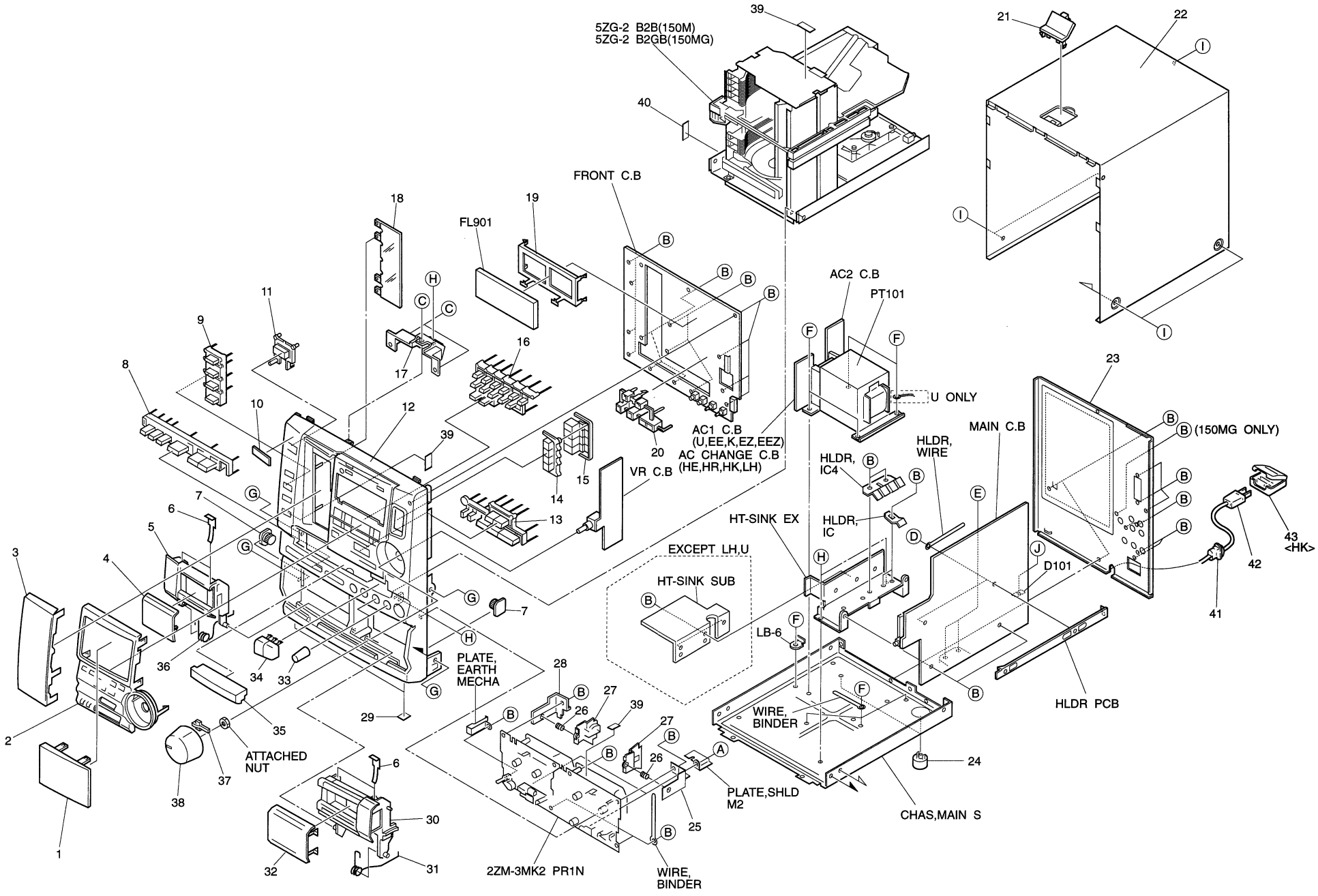
< LW SECTION > EE, K, EEZ, EZ MODELS

Sensitivity:	43dB±5dB (144kHz)
(S/N 20dB)	65dB±5dB (198kHz/290kHz)
Distortion:	Less than 1.5% (198kHz)
Intermediate frequency:	450kHz

TAPE SECTION

Tape speed:	3000Hz±1.5%
Wow & flutter:	Less than 0.4% (R.M.S)
Take-up torque:	30～55g-cm (FWD, REV)
F. F torque:	75～180g-cm
Rew torque:	75～180g-cm
Back tension:	3±4g-cm
PB Output level:	250mV±2.0dB (SP OUT)
REC/PB Output level:	160mV±2.0dB (SP OUT)
Distortion (REC/PB):	Less than 2% (NORM)
	Less than 2.3% (CrO_2)
Noise level (PB):	Less than 1.2mV/1.5mV DOLBY B NR ON/OFF
	CrO_2
	Less than 1.1mV/1.3mV DOLBY B NR ON/OFF
	NORM
Noise level (REC/PB):	Less than 1.2mV/1.4mV DOLBY B NR ON/OFF
	CrO_2
	Less than 1.2mV/1.5mV DOLBY B NR ON/OFF
	NORM
Erasing ratio:	More than 60dB
REC bias frequency:	85kHz
Test tape:	NORMAL TTA-601
	CrO_2 TTA-610

MECHANICAL EXPLODED VIEW 1 ／ 1

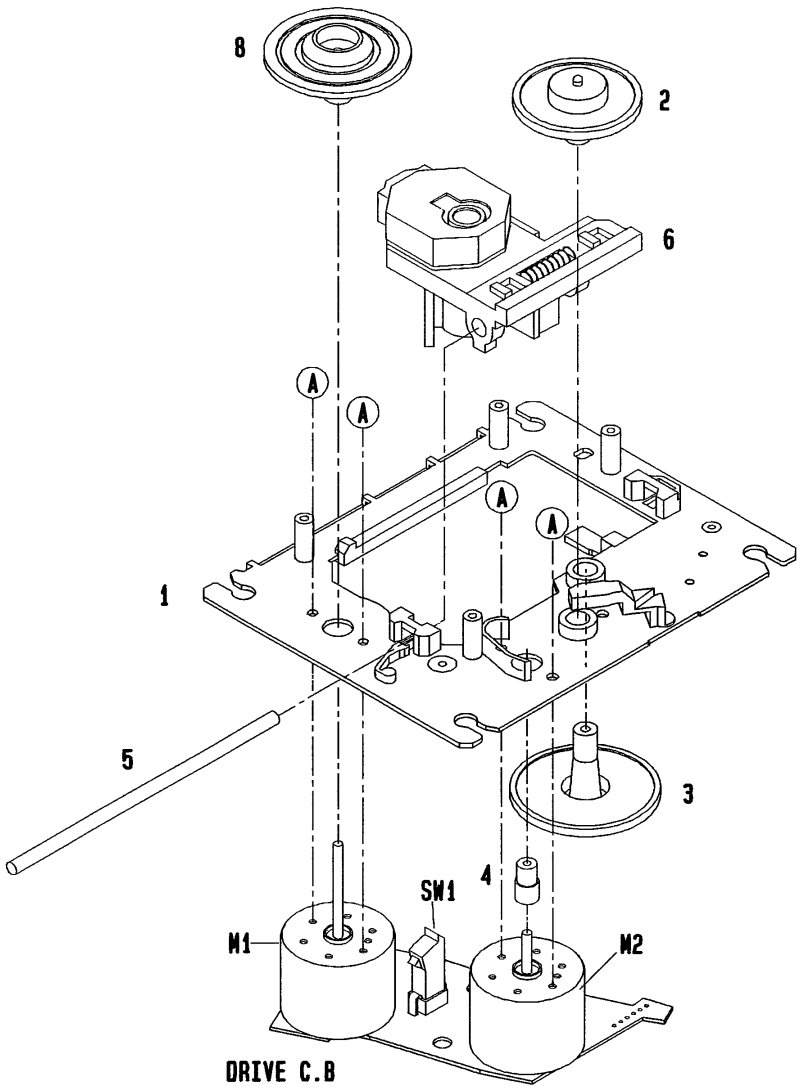


MECHANICAL PARTS LIST 1 ／ 1

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	85-NF2-025-010		WINDOW,DISP
2	85-NF2-006-010		PANEL,FR
3	85-NF2-028-110		WINDOW,CD
4	85-NF2-026-110		WINDOW,CASS 1
5	85-NF2-003-010		BOX,CASS 1
6	80-CD3-218-110		SPR-P CASS
7	87-063-165-010		OIL-DMPR 150
8	85-NF2-016-010		KEY,DOLBY<EXCEPT 150MG HE 150MG HR>
8	85-NFC-011-010		KEY,KARAOKE<150MG HE,150MG HR>
9	85-NF2-017-010		KEY ASSY,FUN
10	82-NE6-067-010		BADGE,AIWA 30N
11	85-NF2-011-010		KEY,POWER
12	85-NF2-043-010		CAB,FR E<K,EZ,EEZ,EE>
12	85-NFC-002-010		CAB,FR H<150MG HE,150MG HR>
12	85-NF2-042-010		CAB,FR H<HE,LH,HR,HK>
12	85-NF2-001-010		CAB,FR U<U>
13	85-NF2-012-010		KEY,OPE
14	85-NF2-010-010		KEY,GEQ
15	85-NF2-015-010		KEY,DSP
16	85-NF2-013-010		KEY,10
17	85-NF2-216-210		HLDR,CD TOP
18	85-NF2-029-110		IND,CD50
19	85-NF2-208-010		GUIDE,FL
20	85-NF2-206-010		GUIDE,OPE
21	83-NM2-018-110		COVER,TOP
22	85-NF2-002-110		CAB,STEEL
23	85-NF2-059-110		PANEL,REAR EEB<EE>
23	85-NF2-060-110		PANEL,REAR EZB<EZ,EEZ>
23	85-NF2-054-110		PANEL,REAR HEB<HE>
23	85-NFC-018-110		PANEL,REAR HEB<150MG HE>
23	85-NF2-057-110		PANEL,REAR HKB<HK>
23	85-NF2-055-110		PANEL,REAR HRB<HR>
23	85-NFC-019-110		PANEL,REAR HRB<150MG HR>
23	85-NF2-058-110		PANEL,REAR KB<K>
23	85-NF2-056-110		PANEL,REAR LHB<LH>
23	85-NF2-032-110		PANEL,REAR UB<U>
24	87-085-221-010		FOOT,H13.5
25	82-NF5-227-010		HLDR,LOCK 2N
26	82-NF5-228-010		SPR-C,LOCK
27	82-NF5-229-010		PLATE,LOCK
28	82-NF5-226-010		HLDR,LOCK 1N
29	80-VT1-202-010		FELT,12.5-15.5-2
30	85-NF2-004-010		BOX,CASS 2
31	82-NF5-219-010		SPR-T,EJECT 2 (SIN)
32	85-NF2-027-110		WINDOW,CASS 2
33	83-NF5-020-010		KNOB,MIC
34	85-NF2-014-010		KEY,OPEN
35	85-NF2-005-010		PANEL,TRAY<U,K,EZ,EEZ,EE>
35	85-NFC-006-010		PANEL,TRAY GH<150MG HE,150MG HR>
35	85-NF2-053-010		PANEL,TRAY H<HE,LH,HR,HK>
36	82-NF5-218-010		SPR-T,EJECT 1 (SIN)
37	82-NE6-016-010		IND,MAIN(VOL)
38	85-VP1-008-010		KNOB,VOL
39	80-MQ1-209-010		CLOTH,20-7
40	82-JT1-206-010		CLOTH,15-50-0.5
41	87-085-185-010		BUSHING,AC CORD E<EXCEPT U>
41	87-085-189-010		BUSHING,CORD U<U>
⚠ 42	87-050-079-010		AC CODE ASSY,E<EXCEPT U,K>
⚠ 42	87-050-100-010		AC CORD ASSY K 3P<K>
⚠ 42	87-050-053-010		AC CORD ASSY,U-2<U>
⚠ 43	87-099-811-010		PLUG,ADPTR CONV(K)<HK>
A	87-571-032-410		VIT+2-3
B	87-067-703-010		BVT2+3-10 (W/O SLOT)
C	87-721-098-410		QT2+3-12 GLD
D	87-067-688-010		BVTT+3-6
E	87-067-698-010		BVT2+3-18(W/O,SLOT)
F	87-078-019-010		S-SCREW,IT+4-6
G	87-591-094-410		QIT+3-6
H	87-067-689-010		BVTT+3-8
I	87-067-641-010		UTT2+3-8(W/O SLOT)BL
J	87-067-579-010		BVT2+3-8

CD MECHANISM EXPLODED VIEW 1 ／ 2

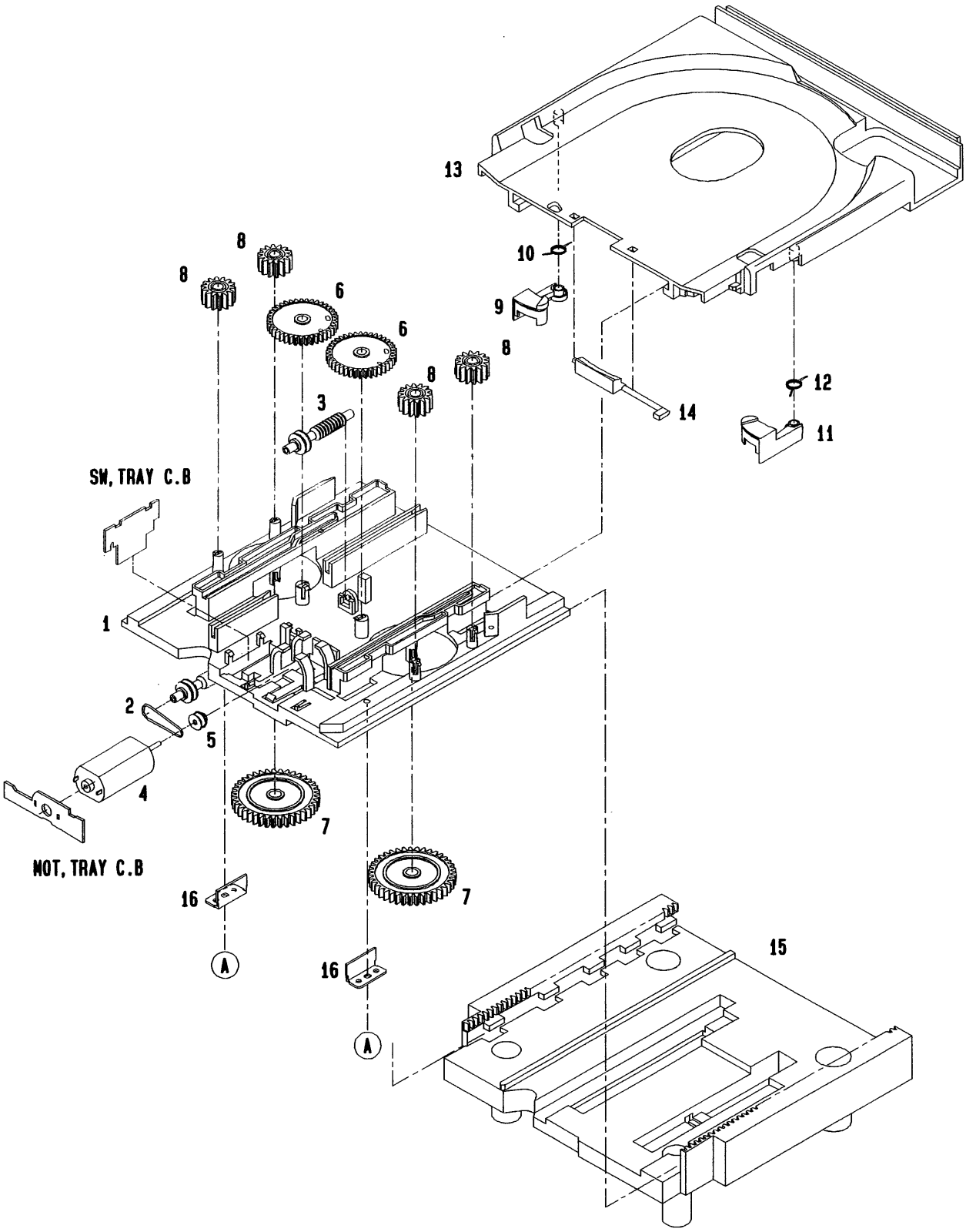


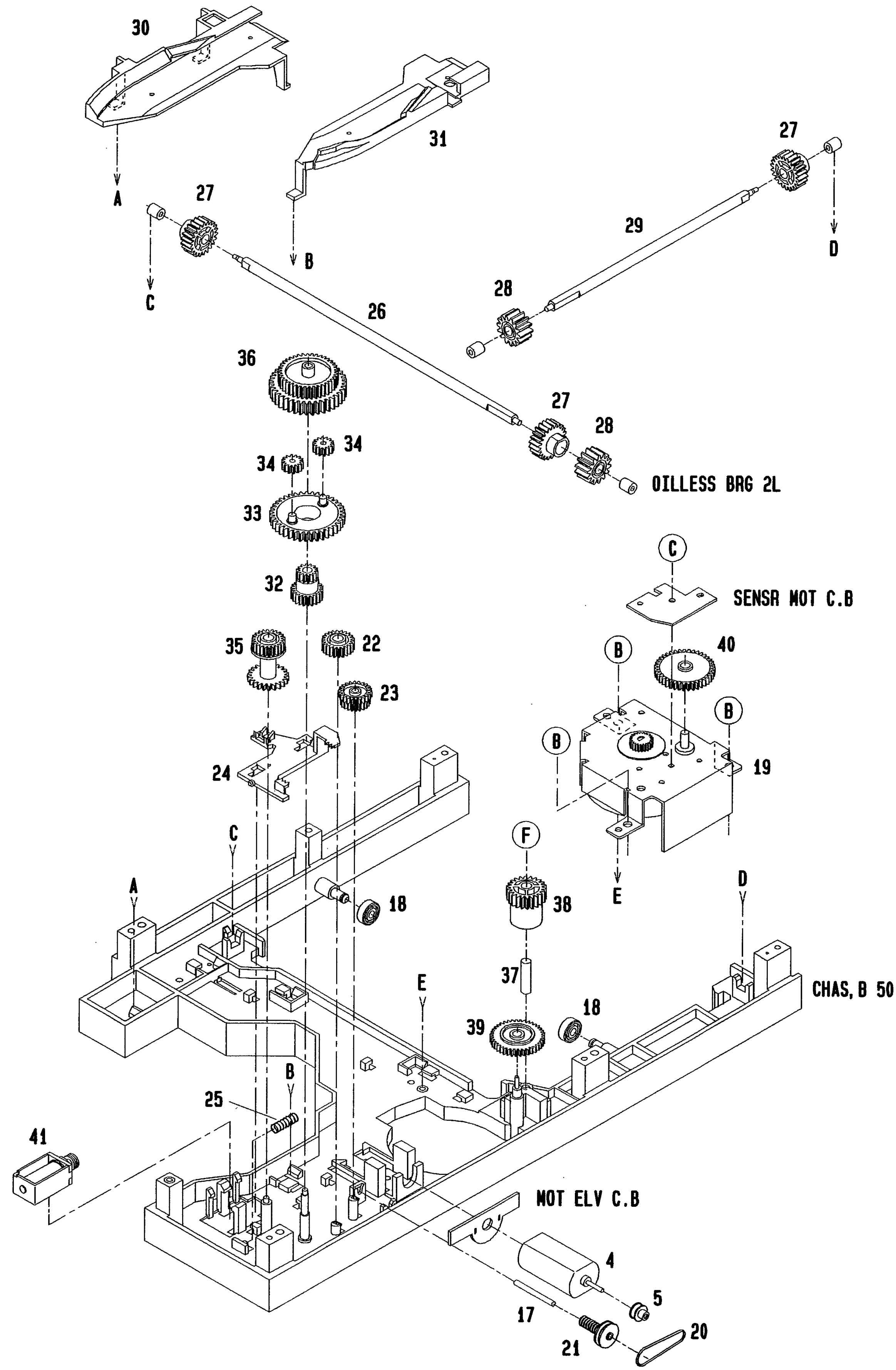
CD MECHANISM PARTS LIST 1 ／ 2

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	83-ZG2-202-51K		O-SERT S ASSY,S
2	83-ZG2-204-419		GEAR,A
3	83-ZG2-205-219		GEAR,B
4	83-ZG2-220-01K		GEAR MOTOR 2
5	83-ZG2-207-119		SHAFT,SLIDE
6	87-026-625-019		PICK UP MPC-1C
8	83-ZG2-222-01K		TURN TABLE,A5
A	87-261-032-219		SCREW V+2-3

CD MECHANISM EXPLODED VIEW 2 ／ 2




30
31
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A
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D
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C
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34
OILLESS BRG 2L
33
C
32
SENSR MOT C.B
35
22
B
40
23
B
B
19
24
C
F
A
18
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E
D
E
37
CHAS, B 50
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B
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41
MOT ELV C.B
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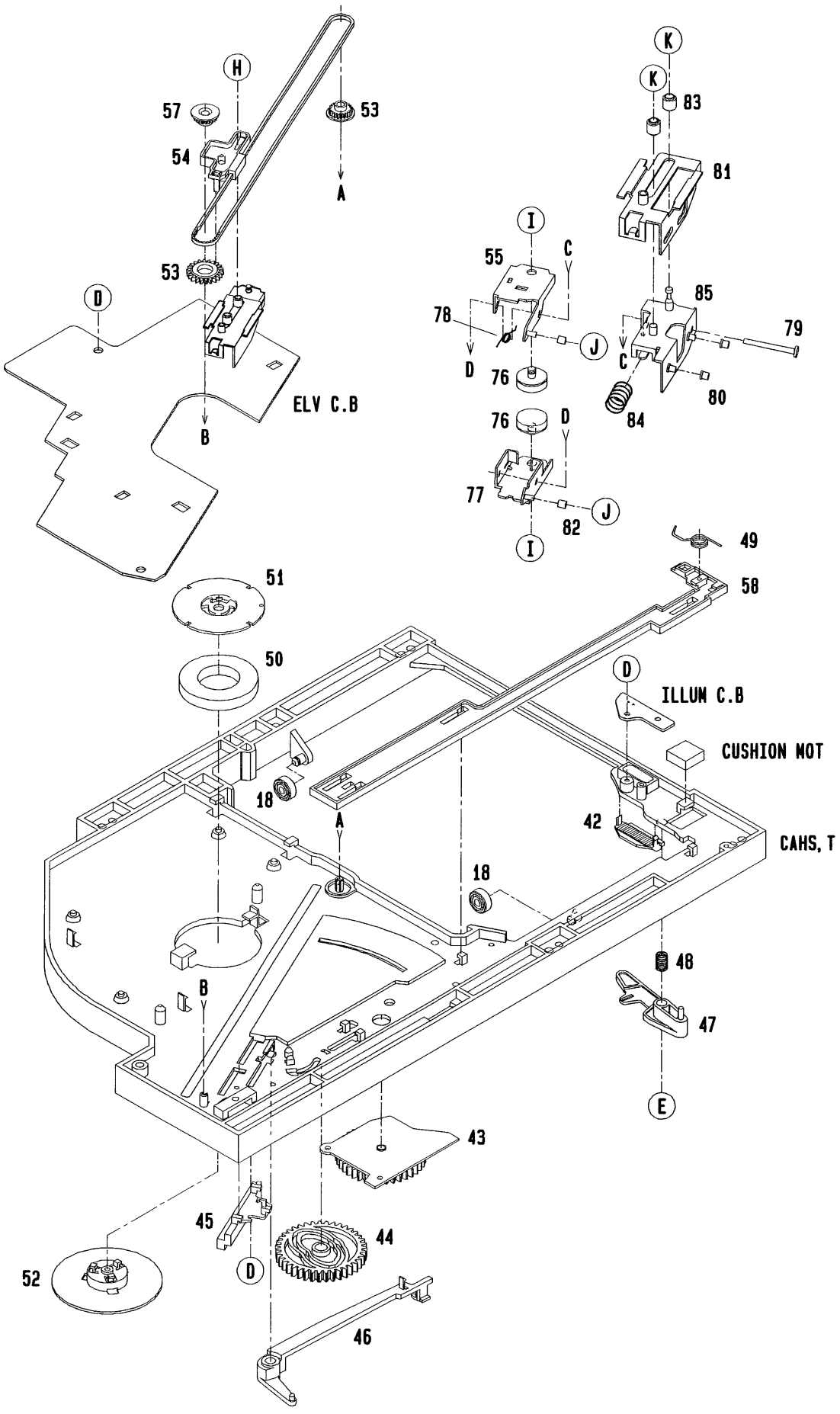
21


H
57
53
54
A
53
D
ELV C.B
B
K
K
83
81
I
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J
76
85
79
C
80
84
76
D
77
J
82
I
49
58
51
50
D
ILLUM C.B
CUSHION MOT
18
A
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CAHS, T
18
48
B
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E
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44
D
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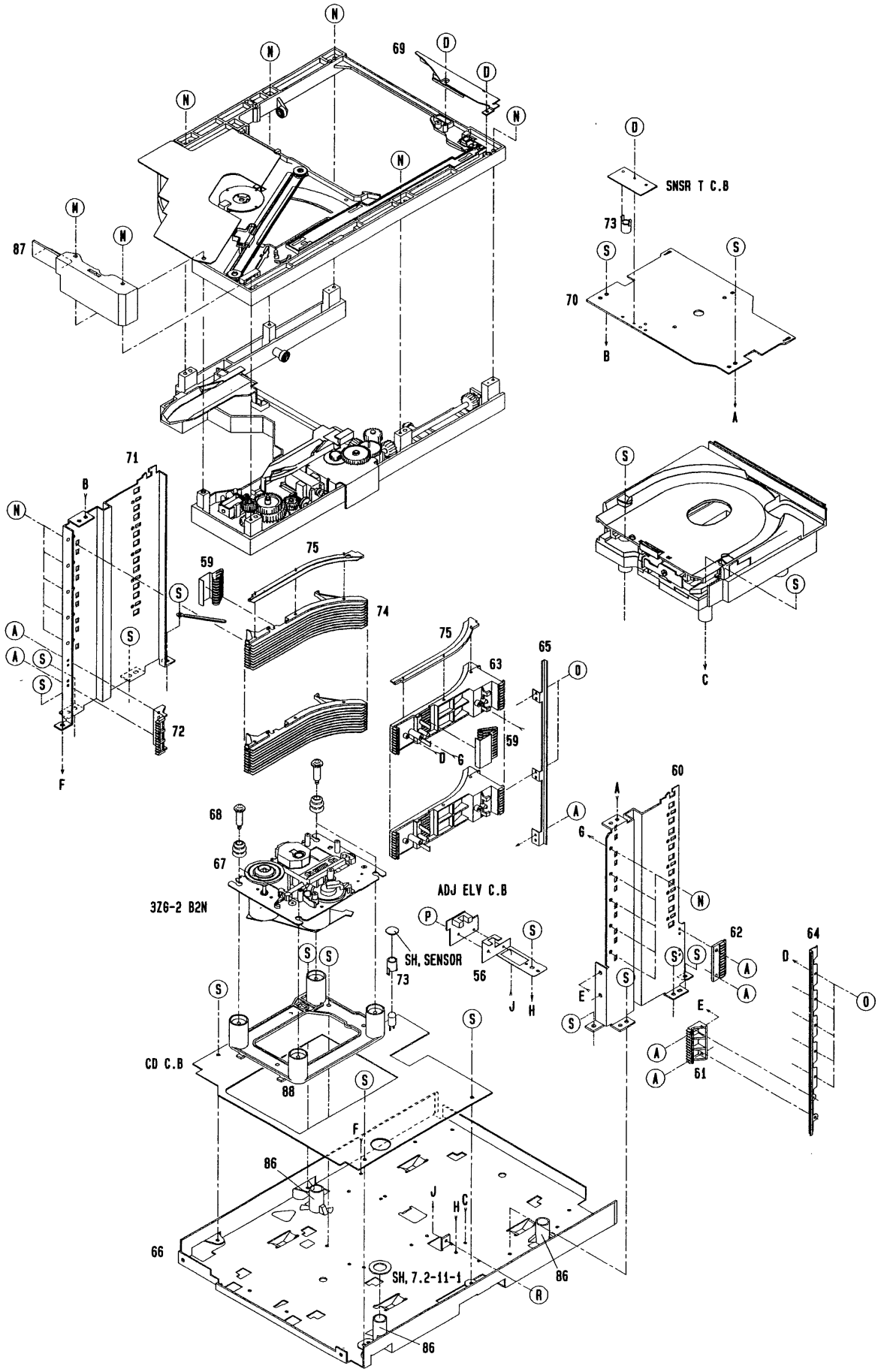
46

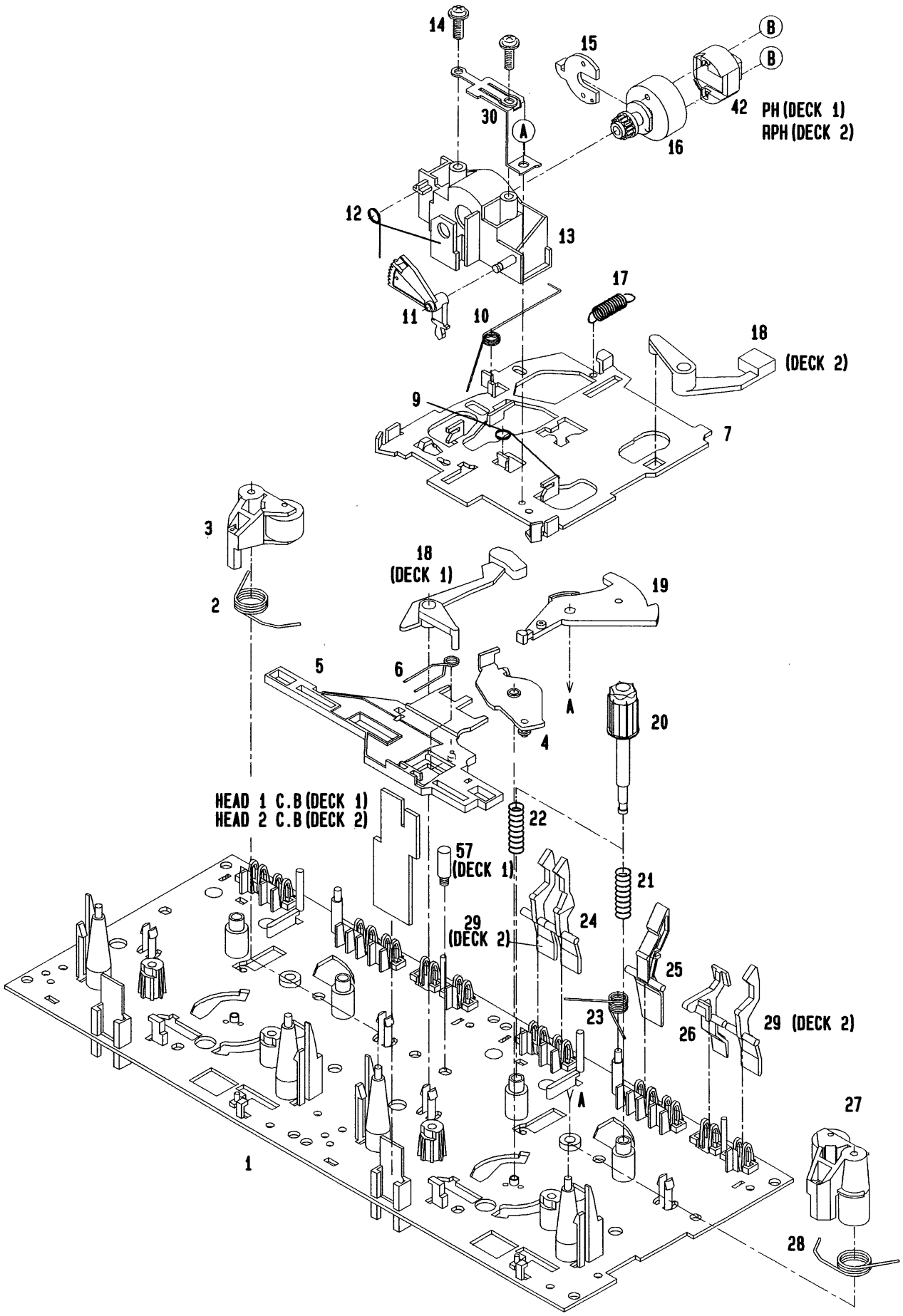

SNSR T C.B
ADJ ELV C.B
3Z6-2 B2N
SH, SENSOR
CD C.B
SH, 7.2-11-1

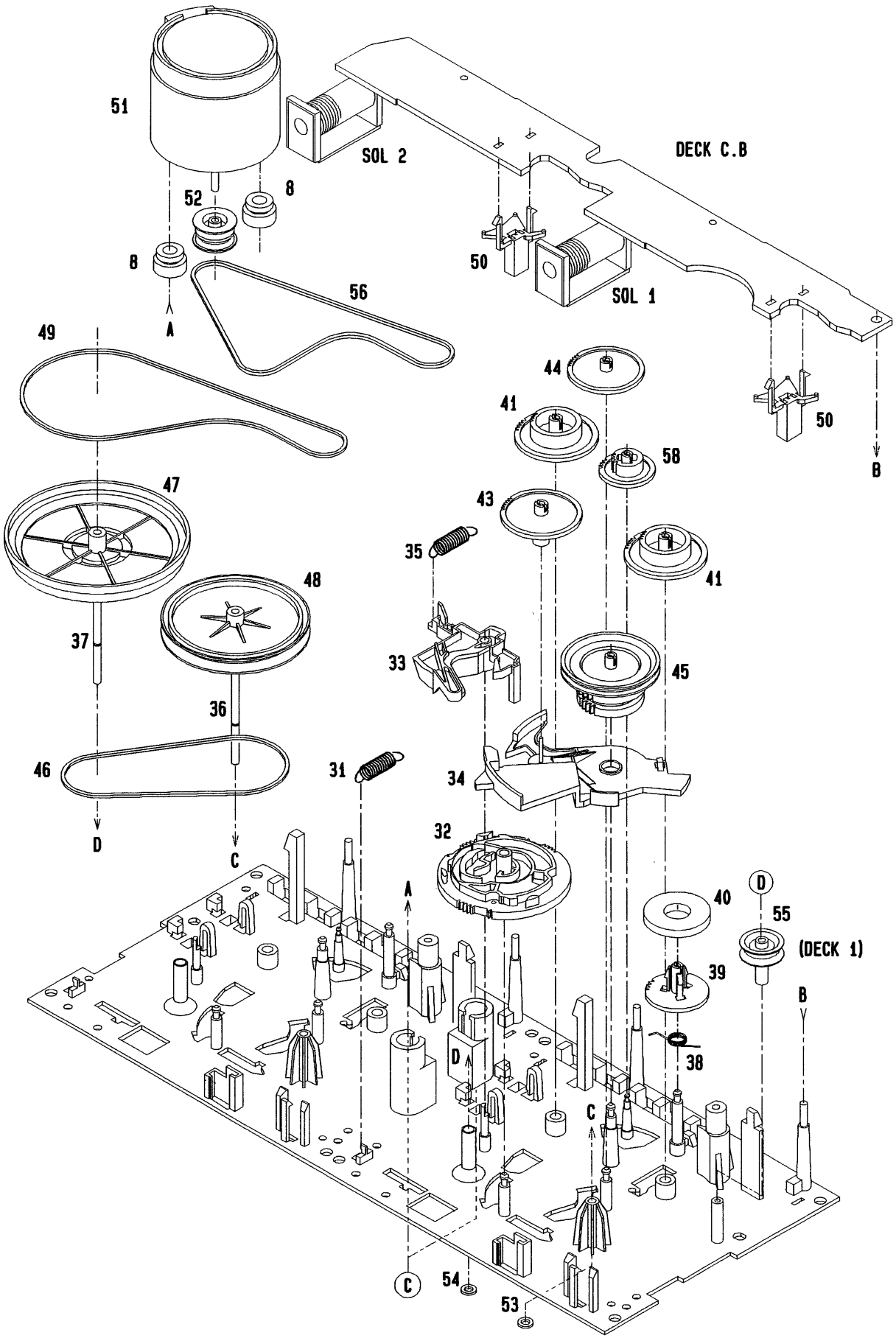
CD MECHANISM PARTS LIST 2 ／ 2

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	83-ZG1-291-010		TRAY,SLIDE
2	83-ZG1-323-110		BELT,MOT TRAY
3	83-ZG1-267-010		GEAR,PULLEY-T
4	87-045-369-010		MOT,FF-050SH-09250
5	83-ZG1-268-010		PULLEY,TRAY
6	83-ZG1-264-010		GEAR,T1
7	83-ZG1-265-010		GEAR,T2
8	83-ZG1-266-010		GEAR,T3
9	83-ZG1-281-010		ARM,TRAY-R
10	83-ZG1-321-010		SPR-T,ARM TRAY R
11	83-ZG1-280-010		ARM,TRAY-L
12	83-ZG1-320-010		SPR-T,ARM TRAY L
13	83-ZG1-292-010		TRAY
14	83-ZG1-278-110		STOPPER,DISC
15	83-ZG1-290-010		BASE,TRAY
16	83-ZG1-307-010		PLATE,STOP TRAY
17	83-ZG1-332-010		SFT,WORM
18	83-ZG1-271-010		ROLLER,MAGAZINE
19	83-ZG1-302-010		MOT ASSY,STEP
20	83-ZG1-300-010		BELT,MOT
21	83-ZG1-270-010		WORM
22	83-ZG1-255-010		GEAR,U44
23	83-ZG1-269-010		WORM-WHL
24	83-ZG1-287-110		PLATE,STOP22
25	83-ZG1-317-110		SPR-C,STOP22
26	83-ZG1-243-010		SFT,PINI-2
27	83-ZG1-262-110		GEAR,P1
28	83-ZG1-261-010		GEAR,UD6
29	83-ZG1-242-010		SFT,PINI-1
30	83-ZG1-288-010		TRAY,SUB-L
31	83-ZG1-289-010		TRAY,SUB-R
32	83-ZG1-251-010		GEAR,U1
33	83-ZG1-252-010		GEAR,U2
34	83-ZG1-254-010		GEAR,U4
35	83-ZG1-256-010		GEAR,U5
36	83-ZG1-253-010		GEAR,U3
37	83-ZG1-230-010		SFT,UD4
38	83-ZG1-260-010		GEAR,UD4
39	83-ZG1-259-010		GEAR,UD3
40	83-ZG1-258-010		GEAR,UD2
41	87-045-370-010		SOL,JPM1237
42	83-ZG1-001-010		IND,LED
43	83-ZG1-301-110		SW MODE
44	83-ZG1-263-010		CAM,MAIN
45	83-ZG1-285-010		SLD,12-8
46	83-ZG1-283-010		LVR,12-8
47	83-ZG1-284-210		LVR,PUSH
48	83-ZG1-322-010		SPR-C,LVR-ADJ
49	83-ZG1-318-210		SPR-T,LVR PUSH
50	83-ZG3-602-010		RING,MAG
51	83-ZG3-211-010		PLATE,DISC
52	83-ZG1-282-010		HOLDER,DISC
53	83-ZG1-249-010		GEAR,1
54	83-ZG1-227-110		PLATE ASSY,HTD-1
55	83-ZG1-208-010		PLATE ASSY,CATCH-2
56	83-ZG1-339-010		PLATE,SNSR
57	83-ZG1-250-010		PULLEY
58	83-ZG1-286-110		PLATE,PUSH
59	83-ZG1-234-210		PLATE,CD-SP1
60	85-ZG2-206-010		CHAS,R
61	83-ZG1-273-010		RACK,2
62	83-ZG1-272-010		RACK,1
63	83-ZG1-276-110		MAGAZINE,R
64	85-ZG2-207-010		PLATE,MAGAZINE-2 50
65	85-ZG2-210-010		PLATE,MAGAZINE 50
66	85-ZG2-201-010		CHAS,MAIN 50
67	80-CD3-214-019		CUSH CD A
68	81-ZG1-271-010		S-SCREW,MECH REAR
69	85-ZG2-203-010		COVER,LED-2
70	83-ZG1-235-010		CHAS,TOP
71	85-ZG2-205-010		CHAS,L
72	83-ZG1-274-010		RACK,3
73	83-ZG1-611-010		COVER,SNSR
74	83-ZG1-275-110		MAGAZINE,L
75	83-ZG1-295-110		COVER,MAGAZINE
76	83-ZG1-205-010		PAD ASSY,CATCH
77	83-ZG1-201-010		PLATE ASSY,CATCH-3
78	83-ZG1-319-110		SPR-T,CATCH
79	83-ZG1-241-010		SFT,CATCH-9
80	83-ZG1-245-010		ROLLER,CATCH-3
81	83-ZG1-220-210		PLATE ASSY,CATCH-5
82	83-ZG1-246-010		ROLLER,CATCH-7
83	83-ZG1-244-010		ROLLER,CATCH-2
84	83-ZG1-316-010		SPR-C,CATCHER
85	83-ZG1-214-010		PLATE ASSY,CATCH-4
86	85-NF2-203-010		GUIDE,SCREW
87	83-ZG1-340-010		COVER,WIRE
88	83-ZG1-341-010		BASE,CD
A	87-067-421-010		VTT+2-4
B	87-067-659-010		BVT2+2.6-8W/ SOLT B
C	87-261-032-410		V+2-3 GLD
D	87-763-034-410		VFT2+2.5 BLK
E	87-721-039-410		QT2+2-14
F	87-078-170-010		LW,3.65-6-0.188
H	87-067-938-010		PW,1.3-3-0.25 SLT
I	86-544-440-010		PW,1.2-4-0.25 SLT
J	87-067-858-010		PW,0.83-2.0-0.25 SLT
K	87-067-800-010		PW,1.5-3.5-0.25 SLT
M	87-352-076-210		VT2+2.6-16
N	87-067-189-010		BVIT3B+2.6-8
O	87-078-167-010		SCREW,+2-3 B-TIGHT
P	87-251-033-410		U+2-4
R	87-261-103-210		V+3-25
S	87-081-481-210		VTT+3-5

TAPE MECHANISM EXPLODED VIEW 1 / 1




51
SOL 2
DECK C.B
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SOL 1
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(DECK 1)
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B
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C
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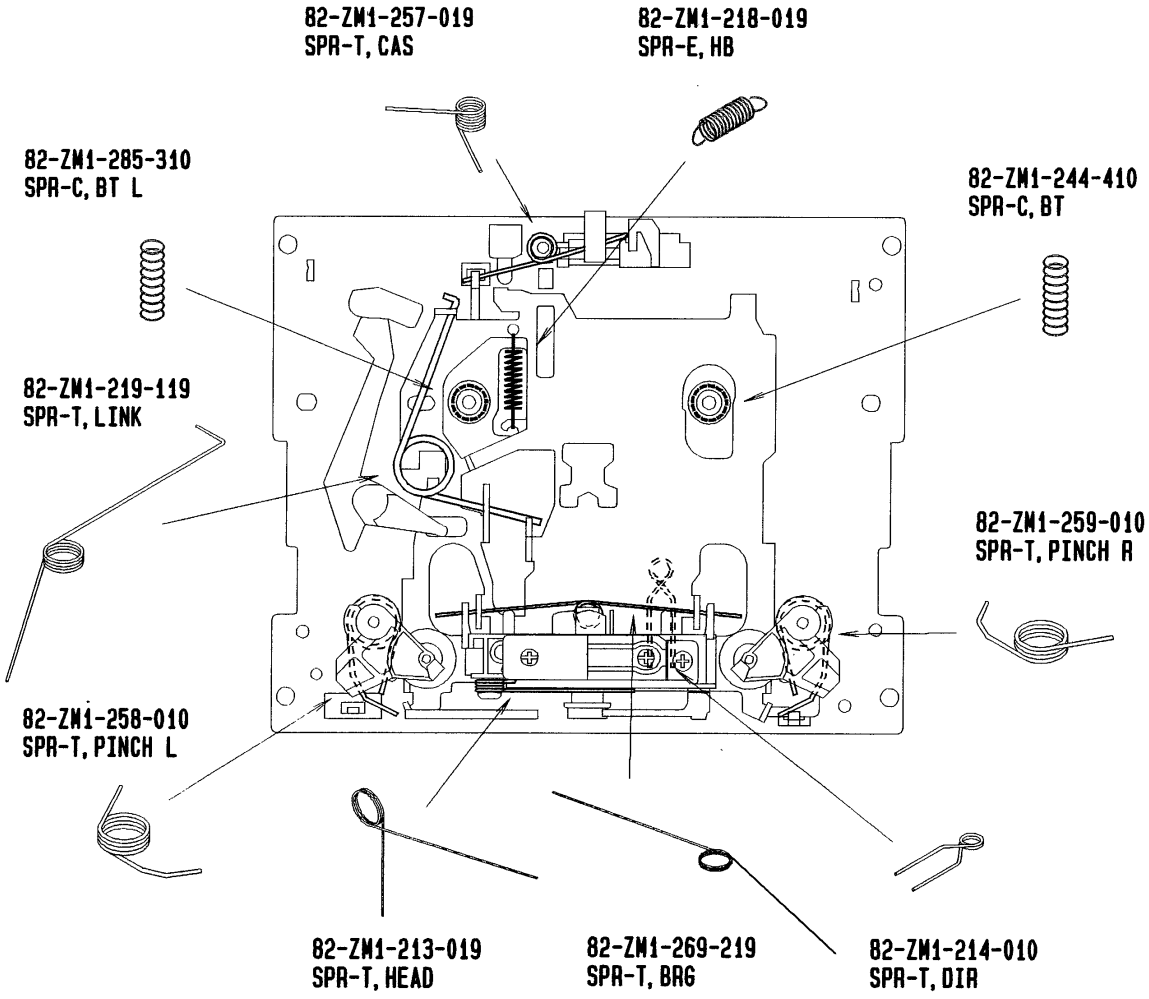
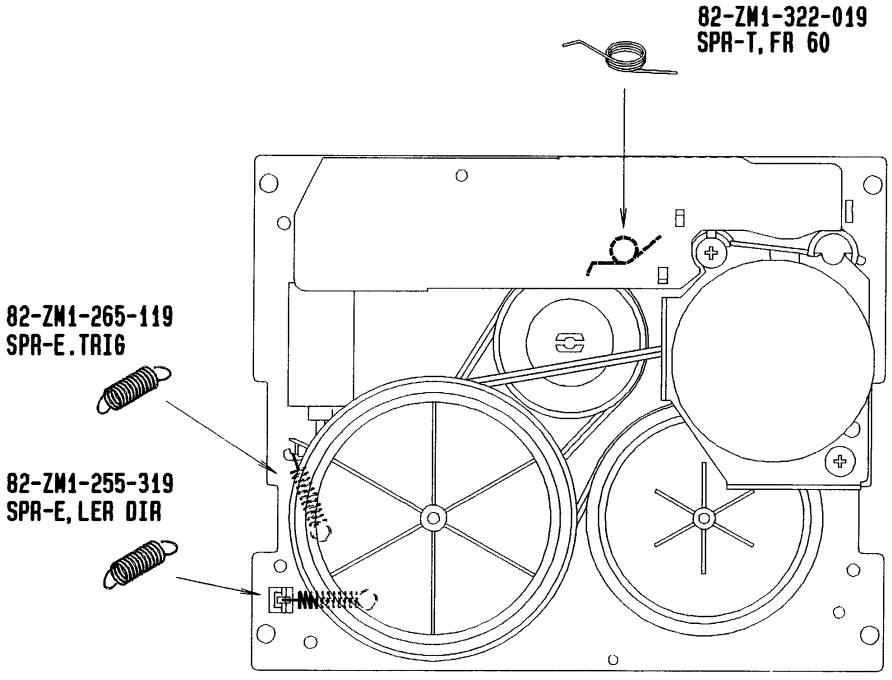
TAPE MECHANISM PARTS LIST 1 ／ 1

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-ZM3-301-019		CHAS ASSY,M2
2	82-ZM1-258-010		SPR-T,PINCH L
3	82-ZM1-248-419		LVR ASSY,PINCH L
4	82-ZM1-295-31K		PLATE ASSY,LINK
5	82-ZM1-266-11K		LVR,DIR
6	82-ZM1-214-010		SPR-T,DIR
7	82-ZM1-206-61K		CHAS,HEAD
8	82-ZM3-307-019		CUSH-G,DIA3.7-8-3.2
9	82-ZM1-269-219		SPR-T,BRG
10	82-ZM1-219-119		SPR-T,LINK
11	82-ZM1-210-019		GEAR,H T
12	82-ZM1-213-019		SPR-T,HEAD
13	82-ZM1-207-519		GUIDE,TAPE
14	82-ZM1-283-310		S-SCREW,AZIMUTH
15	82-ZM1-314-119		PLATE,HEAD
16	82-ZM1-208-019		HLDR,HEAD
17	82-ZM1-218-019		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-ZM1-222-11K		LVR,PLAY
20	82-ZM1-217-319		REEL TABLE
21	82-ZM1-244-410		SPR-C,BT
22	82-ZM1-285-310		SPR-C,BT L
23	82-ZM1-257-019		SPR-T,CAS
24	82-ZM1-241-319		LVR,MC
25	82-ZM1-242-019		LVR,CAS
26	82-ZM1-243-019		LVR,STOP
27	82-ZM1-253-419		LVR ASSY,PINCH R
28	82-ZM1-259-010		SPR-T,PINCH R
29	82-ZM1-240-11K		LVR,REC (DECK 2)
30	82-ZM1-298-010		SPR-P,EARTH
31	82-ZM1-255-319		SPR-E,LVR DIR
32	82-ZM3-305-01K		GEAR,CAM M2
33	82-ZM1-227-21K		LVR,TRIG
34	82-ZM3-306-01K		LVR,FR M2
35	82-ZM1-265-119		SPR-E,TRIG
36	82-ZM1-313-019		CAPSTAN N 2-41.5
37	82-ZM1-312-019		CAPSTAN N 2.2-41.7
38	82-ZM1-322-019		SPR-T,FR60
39	82-ZM1-220-219		GEAR,IDLER
40	82-ZM1-316-010		RING MAGNET 3
41	82-ZM1-216-21K		GEAR,REEL
42	87-046-355-019		HEAD,PH HADKH2529B(PH)
42	87-046-356-019		HEAD,RPH HADKH5581B(RPH)
43	82-ZM1-225-11K		GEAR,FR
44	82-ZM1-226-019		GEAR,REW
45	82-ZM1-228-510		SLIP DISK ASSY
46	82-ZM1-328-010		BELT FR2(DECK 1)
46	82-ZM1-335-010		BELT FR2M(DECK 2)
47	82-ZM1-238-61K		FLY-WHL ASSY,R (DECK 2)
47	82-ZM3-210-51K		FLY-WHL ASSY,R2 (DECK 1)
48	82-ZM1-235-31K		FLY-WHL ASSY,L (DECK 2)
48	82-ZM3-208-41K		FLY-WHL ASSY,L2 (DECK 1)
49	82-ZM3-313-019		BELT R10
50	82-ZM1-245-210		HLDR,IC
51	87-045-347-019		MOT,SHU2L 70(M1)
52	82-ZM3-202-019		PULLEY,MOT 2M
53	82-ZM1-288-019		SH,1.63-3.2-0.5 SLT
54	80-ZM6-243-019		SH,1.75-3.6-0.5 SLT
55	82-ZM3-304-010		PULLEY,COUPLER (DECK 1)
56	82-ZM3-312-019		BELT P10
57	82-ZM3-216-019		SHAFT,COUPLER N(DECK 1)
58	82-ZM1-223-019		GEAR,PLAY
A	82-ZM1-315-010		S-SCREW,GVIDE TAPE
B	80-ZM6-207-019		V+1.6-7
C	82-ZM3-318-019		S-SCRW MOTOR M2
D	87-067-972-019		PW,1.05-3-0.25 SLT

SPRING APPLICATION POSITION





SPEAKER PARTS LIST (SX-NV150)

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-NS2-001-010		PANEL FR,R
2	85-NS2-002-110		PANEL FR,L
3	85-NS2-007-010		GRILL FRAME ASSY
4	85-NS2-008-010		PANEL TW ASSY R
5	85-NS2-009-010		PANEL TW ASSY L
6	85-NS4-602-010		SPEAKER WOOFER<YJ,YU,YB>
6	85-NS4-604-010		SPEAKER WOOFER<YL>
7	85-NSF-604-010		SPEAKER TWEETER
8	83-096-614-010		SPEAKER CORD

■ 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-NF2-903-010		IB,ECA(J)<EXCEPT LH,U,K,EZ,EEZ,EE>
1	85-NF2-905-010		IB,EGI(J)E<K,EZ,EEZ,EE>
1	85-NF2-901-010		IB,ESF(J)<LH,U>
1	85-NF2-904-010		IB,ESF(J)E<K,EZ,EEZ,EE>
2	85-NF2-615-010		RC,RC-T509
2	85-NF2-023-010		ROD,CD50
3	87-006-240-010		AM LOOP ANT CON(KO)<EXCEPT LH,U,K,EZ,EEZ,EE>
3	87-006-225-010		AM LOOP ANT NC2<LH,U,K,EZ,EEZ,EE>
4	87-043-115-010		ANT,FEEDER FM<EXCEPT K,EZ,EEZ,EE>
4	87-043-106-010		FM, WIRE ANT (Z)<K,EZ,EEZ,EE>
5	87-043-095-010		5M(SW)WIRE-ANT(S)<EXCEPT LH,U,K,EZ,EEZ,EE>
6	87-050-050-010		CORD-1.5M PIN-PIN M<150MG HE,150MG HR>
7	87-009-725-010		PLUG,ADPTR,IR40<EXCEPT U,K,EZ,EEZ,HK,EE>
8	85-NF2-207-010		S-SCREW,TRANSPORT

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
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912162, 750038

Tokyo Japan

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