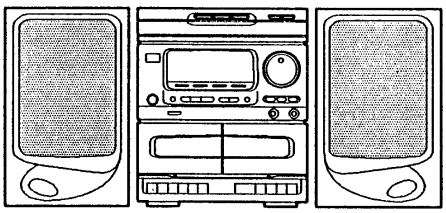
aiwa

aiwa SERVICE

NSX-340
NSX-345
CX-N3200
CX-N340
SX-N3200
SX-N340



COMPACT DISC STEREO SYSTEM

- BASIC TAPE MECHANISM: TN-591SW-103
  TN-21ZSW-1370
- BASIC CD MECHANISM: 4ZG1-N
- TYPE: HEA,LHA(340) HMA(345)
  UA,CA(N3200) EA,KA,ZA(N340)

SERVICE MANUAL

REVISION PUBLISHING

- This Service Manual is the "Revision Publishing" and replaces "Simple Manual": (S/M Code No. 09-94A-081-30T).

- If requiring information about the mechanism, see Service Manual of 4ZG1, S/M Code No. 09-946-056-10T.

SYSTEM	CD-CASSEIVER	REMOTE CONTROLLER	SPEAKER
NSX-340	CX-SN340	RC-TN340	SX-SN340
NSX-345	CX-SN345	RC-TN340	SX-SN340
	CX-N3200	RC-TN340	SX-N3200
	CX-N340	RC-TN340	SX-N340

S/M Code No. 09-94A-081-40T

TABLE OF CONTENTS

SPECIFICATIONS (HE, LH, E, K, Z MODELS)

<FM section>

Frequency range	87.5 MHz to 108 MHz
Usable sensitivity (IHF)	Except Z model: 1.3 μV (75 ohms) 13.2 dBf Z model: 1.9 μV (75 ohms) 16.8 dBf
Alternate channel selectivity	50 dB (±400 kHz)
Signal-to-noise ratio	STEREO: 70 dB (Except Z model) 65 dB (Z model) MONO: 76 dB (Except Z model) 73 dB (Z model)
Harmonic distortion	0.3 % (MONO), 1 kHz 0.5 % (STEREO, L-R), 1 kHz
Frequency response	30 Hz to 15 kHz (+0.5 dB, – 3 dB)
Stereo separation	Except Z model: 33 dB at 1 kHz Z model: 30 dB at 1 kHz
Antenna	75 ohms (unbalanced)

<AM (MW) section>

Frequency range	CX-N340 HE, E, K, Z: AM 531 (530) kHz to 1602 (1710) kHz CX-N340 LH AM 530 (531) kHz to 1710 (1602) kHz
Usable sensitivity	350 μV/m
Selectivity	22 dB (9 kHz)
Signal-to-noise ratio	53 dB (100 dB input)
Antenna	Loop antenna

<LW section > (E, K, Z models only)

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

<Timer section>

Program timer	On-timer, capable of free setting
Sleep timer	Capable of setting in 10-minute increments, 240 minutes maximum

<Amplifier section>

Power output	CX-N340 LH, HE: 30 W + 30 W (6 ohms, T.H.D. 10% 1 kHz) CX-N340 E, Z: 20 W + 20 W (6 ohms, T.H.D. 1 % 1 kHz) CX-N340 K: 25 W + 25 W (6 ohms, T.H.D. 10% 1 kHz) 20 W + 20 W (6 ohms, T.H.D. 1 % 1 kHz)
Harmonic distortion	CX-N340 LH, HE: 0.07 % (15 W, 1 kHz, 6 ohms) CX-N340 E, K, Z: 0.06 % (10 W, 1 kHz, 6 ohms)
Input sensitivity	VIDEO/AUX: 400 mV

<Cassette deck section>

Track format	4 tracks, 2 channels
Frequency response	Normal tape: 50 – 15000 Hz
Tape speed	4.8 cm/sec. ($1^{7}/_{8}$ ips)
Recording system	AC bias
Erasure system	AC erase
Motor	DC servomotor × 1
Heads	Playback head × 1 (deck 2) Recording/playback head × 1 (deck 1) Erasure head × 1 (deck 1)

SPEAKER SYSTEM SX-N340

(These values are for one speaker.)

Cabinet type	3 way, bass reflex (magnetism sealed type)
Speaker	130 mm ($5^{1}/_{8}$ in.) cone type woofer 50 mm (2 in.) cone type tweeter 20 mm ($^{13}/_{16}$ in.) ceramic type super tweeter
Impedance	6 ohms
Music power	40 W
Output sound pressure level	87 dB/W/m
Dimensions (W × H × D)	180 × 302 × 220 mm ($7^{1}/_{8} \times 12 \times 8^{3}/_{4}$ in.)
Weight	2.6 kg (5.72 lbs.)

COMMON SECTION

Power requirements	CX-N340 LH, HE: AC 120 V/220-240 V, switchable 50/60 Hz CX-N340 E, Z: AC 230 V, 50 Hz CX-N340 K: AC 240 V, 50 Hz
Power consumption (System total)	CX-N340 LH, HE: 60 W CX-N340 E, Z: 115 W CX-N340 K: 120 W
Dimensions (W × H × D)	Main unit: 260 × 303.5 × 340.5 mm ($10^{1}/_{4} \times 12 \times 13^{1}/_{2}$ in.) System: 620 × 303.5 × 340.5 mm ($24^{1}/_{2} \times 12 \times 13^{1}/_{2}$ in.)
Weight	Main unit: 6.5 kg (14.3 lb.) System: 11.7 kg (25.74 lb.)

- Design and specifications are subject to change without notice.

SPECIFICATIONS (HM MODEL)

<FM section>

Frequency range	87.5 MHz to 108 MHz
Usable sensitivity (IHF)	1.3 µV (75 ohms) 13.2 dBf
Alternate channel selectivity	50 dB (±400 kHz)
Signal-to-noise ratio	STEREO: 70 dB MONO: 76 dB
Harmonic distortion	0.3 % (MONO), 1 kHz 0.5 % (STEREO, L-R), 1 kHz
Frequency response	30 Hz to 15 kHz (+0.5 dB, - 3 dB)
Stereo separation	33 dB at 1 kHz
Antenna	75 ohms (unbalanced)

<MW section>

Frequency range	AM 531/530 kHz to 1602/1710 kHz (9/10 kHz step)
Usable sensitivity	350 µV/m
Selectivity	22 dB (9 kHz)
Signal-to-noise ratio	53 dB (100 dB input)
Antenna	Loop antenna

<SW section >

Frequency range	SW1: 3.2000 MHz to 7.3000 MHz SW2: 9.500 MHz to 21.85 MHz
Sensitivity	30 µV (IEC)
Antenna	Wire antenna

<Timer section>

Program timer	On-timer, capable of free setting
Sleep timer	Capable of setting in 10-minute increments, 240 minutes maximum

<Amplifier section>

Power output	30 W + 30 W (6 ohms, T.H.D. 10% 1 kHz)
Harmonic distortion	0.08 % (15 W, 1 kHz, 6 ohms)
Input sensitivity	VIDEO/AUX: 400 mV

<Cassette deck section>

Track format	4 tracks, 2 channels
Frequency response	Normal tape: 50 – 15000 Hz
Tape speed	4.8 cm/sec. ($1^{7}/_{8}$ ips)
Recording system	AC bias
Erasure system	AC erase
Motor	DC servomotor × 1
Heads	Playback head × 1 (deck 2) Recording/playback × 1 (deck 1) Erasure head × 1 (deck 1)

<CD play section>

Disc	Compact disc
Scanning method	Non-contact optical scanner (semiconductor laser application)
Laser	Semiconductor laser (λ=780 nm)
Rotation speed	Approx. 500 rpm – 200 rpm (CLV)
Error correction	Cross Interleave, Reed Solomon code
No. of channels	2 channels
D-A converter	16-bit linear
Wow/flutter	Unmeasurable
Singnal-to-noise ratio	90 dB (1 kHz, 0 dB)
Harmonic distorition	0.05% (1 kHz, 0dB)

SPEAKER SYSTEM SX-N340

(These values are for one speaker.)

Cabinet type	3 way, bass reflex (magnetism sealed type)
Speaker	130 mm ($5^{1}/_{8}$ in.) cone type woofer 50 mm (2 in.) cone type tweeter 20 mm ($^{13}/_{16}$ in.) ceramic type super tweeter
Impedance	6 ohms
Music power	40 W
Output sound pressure level	87 dB/W/m
Dimensions (W × H × D)	180 × 302 × 220 mm ($7^{1}/_{8}$ × 12 × $8^{3}/_{4}$ in.)
Weight	2.6 kg (5.72 lbs.)

COMMON SECTION

Power requirements	AC 120 V/220-240 V, switchable 50/60 Hz
Power consumption (System total)	60 W
Dimensions (W × H × D)	Main unit: 260 × 303.5 × 340.5 mm ($10^{1}/_{4}$ × 12 × $13^{1}/_{2}$ in.) System: 620 × 303.5 × 340.5 mm ($24^{1}/_{2}$ × 12 × $13^{1}/_{2}$ in.)
Weight	Main unit: 6.5 kg (14.3 lb.) System: 11.7 kg (25.74 lb.)

- Design and specifications are subject to change without notice.

SPECIFICATIONS (U, C MODELS)

<FM section>

Frequency range	87.5 MHz to 108 MHz
Usable sensitivity (IHF)	1.3 μV (75 ohms) 13.2 dBf
Alternate channel selectivity	50 dB (±400 kHz)
Signal-to-noise ratio	STEREO: 70 dB MONO: 76 dB
Harmonic distortion	0.3 % (MONO), 1 kHz 0.5 % (STEREO, L-R), 1 kHz
Frequency response	30 Hz to 15 kHz (+0.5 dB, – 3 dB)
Stereo separation	33 dB at 1 kHz
Antenna	75 ohms (unbalanced)

<AM section>

Frequency range	AM 530 (531) kHz to 1710 (1602) kHz
Usable sensitivity	350 μV/m
Selectivity	22 dB (9 kHz)
Signal-to-noise ratio	53 dB (100 dB input)
Antenna	Loop antenna

<Timer section>

Program timer	On-timer, capable of free setting
Sleep timer	Capable of setting in 10-minute increments, 240 minutes maximum

<Amplifier section>

Power output	CX-N3200 C 16 W + 16 W (6 ohms, T.H.D. 1 % 1 kHz) FTC RULE CX-N3200 U 16 watts per channel, Min. RMS at 6 ohms, from 65 Hz to 15 kHz, with no more than 1 % Total Harmonic Distortion 1 % (16 W, 1 kHz, 6 ohms)
Harmonic distortion	0.06 % (8 W, 1 kHz, 6 ohms)
Input sensitivity	VIDEO/AUX: 400 mV

<Cassette deck section>

Track format	4 tracks, 2 channels
Frequency response	Normal tape: 50 – 15000 Hz
Tape speed	4.8 cm/sec. (1⅞ ips)
Recording system	AC bias
Erasure system	AC erase
Motor	DC servomotor × 1
Heads	Playback head × 1 (deck 2) Recording/playback × 1 (deck 1) Erasure head × 1 (deck 1)

SPEAKER SYSTEM SX-N340

(These values are for one speaker.)

Cabinet type	3 way, bass reflex (magnetism sealed type)
Speaker	130 mm (5⅛ in.) cone type woofer 50 mm (2 in.) cone type tweeter 20 mm (13/16 in.) ceramic type super tweeter
Impedance	6 ohms
Music power	40 W
Output sound pressure level	87 dB/W/m
Dimensions (W × H × D)	180 × 302 × 220 mm (7⅛ × 12 × 8¾ in.)
Weight	2.6 kg (5.72 lbs.)

COMMON SECTION

Power requirements	AC 120 V, 60 Hz
Power consumption	55 W
Dimensions (W × H × D)	Main unit: 260 × 303.5 × 340.5 mm (10¼ × 12 × 13½ in.) System: 620 × 303.5 × 340.5 mm (24½ × 12 × 13½ in.)
Weight	Main unit: 6.5 kg (14.3 lb.) System: 11.7 kg (25.74 lb.)

- Design and specifications are subject to change without notice.

PROTECTION OF EYES FROM LASER BEAM DURING SERVICING

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

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

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

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

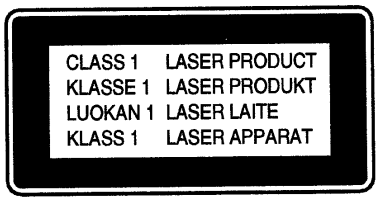
VARNING!
Om apparaten används på annat sätt än vad som specificeras i denna bruksanvising, kan användaren utsättas för osynling laserstrålning, som överskrider gränsen för laserklass 1.

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

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

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

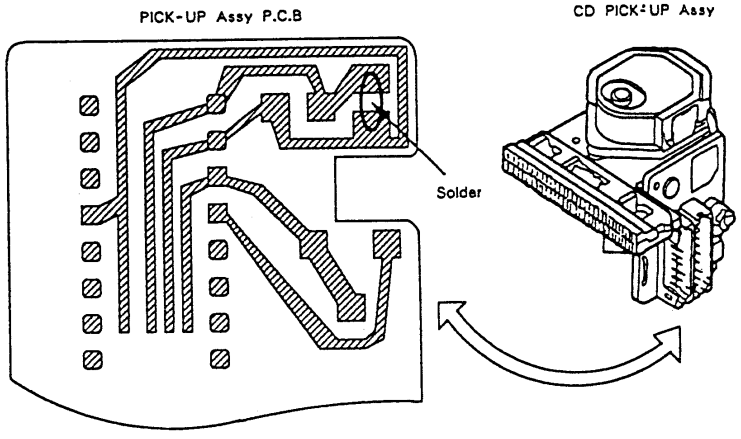
This Compact Disc player is classified as a CLASS 1 LASER product.
The CLASS 1 LASER PRODUCT label is located on the rear exterior.



Precaution to replace Optical block (KSS – 210A)

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

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



ELECTRICAL MAIN PARTS LIST

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

REF. NO.	PART NO.	ｶﾝﾘ NO.	DESCRIPTION
IC			
	87-001-196-089		IC, ICP-N10<EXCEPT U, C>
	87-001-486-019		IC, ICP-N15<U>
	82-NF7-641-010		IC, UPD78044GF-103
	87-017-373-019		IC, NJH32H380A
	87-020-899-019		IC, STK4122-MK2<U, C, E, K, Z>
	87-001-475-019		IC, STK4132-2<HE, HM, LH>
	87-020-758-019		IC, NJM2068SD
	87-002-727-019		IC, NJM4558L
	87-001-607-089		IC, NJM4558M
	87-017-448-019		IC, GD4052B
	87-002-272-089		IC, TC4052BF
	87-017-374-019		IC, TC4094BP
	87-017-541-080		IC, M65830AFP<HE, HM>
	87-017-487-019		IC, BU2611<HM>
	87-002-607-019		IC, LM7001<EXCEPT HM>
	87-017-434-019		IC, KIA6043S
	87-001-942-019		IC, LA1265S(G)
TRANSISTOR			
	89-213-702-019		TR, 2SB1370E
	89-113-187-889		TR, 2SA1318TU
	89-332-665-089		TR, 2SC3266GR
	89-318-155-089		TR, 2SC1815GR
	89-327-125-089		C-TR, 2SC2712GR
	89-420-053-089		TR, 2SD2005R<U, C>
	89-333-266-089		C-TR, 2SC3326B
	87-026-226-089		C-TR, DTA143EK
	87-026-232-089		C-TR, DTA144WK
	87-026-210-089		C-TR, DTC144EK
	89-502-466-089		FET, 2SK246-BL(TPE2)
	89-111-625-089		C-TR, 2SA1162GR
	87-026-233-089		C-TR, DTA114TK
	89-110-155-089		TR, 2SA1015GR
	89-333-317-089		TR, 2SC3331T
	89-109-705-089		TR, 2SA970GR<E, K, Z>
	87-026-224-089		C-TR, DTC143XK
	89-318-154-089		TR, 2SC1815Y<HM>
	87-026-214-089		TR, DTA114YS
	89-327-143-089		C-TR, 2SC2714 (O)
	89-503-025-089		C-FET, 2SK302 GR
	89-502-114-089		FET, 2SK211Y<E, K, Z>
	89-320-011-089		TR, 2SC2001K<HM>
	87-026-462-089		TR, 2SC1740S(RS)<HM>
	89-505-445-089		FET, 2SK544E<HM>
	87-026-215-089		TR, DTC114YS<HM>
DIODE			
	87-002-225-019		DIODE, DBF 40C-K10
	87-017-011-089		DIODE, LT1N4003L<EXCEPT U, C>
	87-002-836-089		DIODE, 1A3-J
	87-020-027-089		C-DIODE, 1SS184
	87-020-465-089		DIODE, 1SS133 T-72
	87-017-122-059		ZENER, HZS11A2 RA
	87-017-145-059		ZENER, HZS27-2 RA<EXCEPT U>
	87-002-564-089		DIODE, 1SS133 RA
	87-001-731-059		ZENER, HZS6C2L RA
	87-017-091-059		ZENER, HZS5C1 RA
	87-001-290-089		ZENER, HZS6B1L<HM>
	87-001-290-059		ZENER, HZS6B1L RA<EXCEPT Z>

REF. NO.	PART NO.	ｶﾝﾘ NO.	DESCRIPTION
MAIN C.B			
BPF731	82-794-697-019		FLTR, ANTI BIRDIE<Z>
BPF831	87-030-105-019		FLTR, BPMP6A<Z>
C101	87-010-398-099		CAP, E 2200-35V SME
C102	87-010-399-099		CAP, E 3300-35 SME
C104	87-010-237-089		CAP, E 1000-16<EXCEPT U>
C104	87-010-980-089		CAP, E 330-16 FS<U, C>
C105	87-010-101-089		CAP, E 220-16 SME
C106	87-010-247-089		CAP, E 100-50 SME
C107	87-010-384-049		CAP, E 100-25 SME
C108	87-010-384-049		CAP, E 100-25 SME
C109	87-010-263-049		CAP, E 100-10
C110	87-010-263-049		CAP, E 100-10
C112	87-010-260-049		CAP, E 47-25 SME
C113	87-010-403-089		CAP, E 3.3-50 SME
C115	87-010-196-089		C-CAP, S 0.1-25 F
C116	87-012-140-089		C-CAP, S 470P-50 CH
C118	87-010-196-089		C-CAP, S 0.1-25 F
C213	87-010-401-049		CAP, E 1-50 SME<U>
C213	87-010-404-049		CAP, E 4.7-50 SME<EXCEPT U>
C214	87-010-401-049		CAP, E 1-50 SME<U>
C214	87-010-404-049		CAP, E 4.7-50 SME<EXCEPT U>
C215	87-010-181-089		C-CAP, S 1800P-50 B<HE, HM, LH>
C215	87-010-175-089		C-CAP, S 560P-50 SL<U, C, E, K, Z>
C216	87-010-181-089		C-CAP, S 1800P-50 B<HE, HM, LH>
C216	87-010-175-089		C-CAP, S 560P-50 SL<U, C, E, K, Z>
C217	87-010-546-089		CAP, E 0.33-50 SME
C218	87-010-546-089		CAP, E 0.33-50 SME
C221	87-010-401-049		CAP, E 1-50 SME<U>
C221	87-010-402-089		CAP, E 2.2-50 SME<EXCEPT U>
C222	87-010-401-049		CAP, E 1-50 SME<U>
C222	87-010-402-089		CAP, E 2.2-50 SME<EXCEPT U>
C223	87-010-263-049		CAP, E 100-10<U>
C223	87-010-374-089		CAP, E 47-10<EXCEPT U>
C224	87-010-263-049		CAP, E 100-10<U>
C224	87-010-374-089		CAP, E 47-10<EXCEPT U>
C225	87-010-260-049		CAP, E 47-25 SME
C226	87-010-260-049		CAP, E 47-25 SME
C227	87-010-196-089		C-CAP, S 0.1-25 F
C228	87-010-196-089		C-CAP, S 0.1-25 F
C229	87-012-361-089		C-CAP, S 0.056-25 Y
C230	87-012-361-089		C-CAP, S 0.056-25 Y
C231	87-010-189-089		C-CAP, S 8200P-50 B<Z>
C232	87-010-189-089		C-CAP, S 8200P-50 B<Z>
C236	87-010-408-089		CAP, E 47-50 SME
C237	87-010-196-089		C-CAP, S 0.1-25 F<Z>
C238	87-010-196-089		C-CAP, S 0.1-25 F<Z>
C243	87-010-154-089		C-CAP, S 10P-50 CH
C244	87-010-154-089		C-CAP, S 10P-50 CH
C250	87-010-404-049		CAP, E 4.7-50 SME
C303	87-010-178-089		C-CAP, S 1000P-50 B<U, C>
C303	87-012-140-089		C-CAP, S 470P-50 CH<EXCEPT U, C>
C304	87-012-140-089		C-CAP, S 470P-50 CH
C305	87-010-189-089		C-CAP, S 8200P-50 B
C306	87-010-189-089		C-CAP, S 8200P-50 B
C310	87-010-197-089		C-CAP, S 0.01-25 B
C311	87-010-426-089		C-CAP, S 0.012-25 B
C312	87-010-426-089		C-CAP, S 0.012-25 B
C313	87-010-192-089		C-CAP, S 0.022-50 F
C351	87-012-154-089		C-CAP, S 150P-50 CH
C352	87-012-154-089		C-CAP, S 150P-50 CH
C353	87-012-157-089		C-CAP, S 330P-50 CH<U, C>
C353	87-010-994-089		C-CAP, S 680P-50 CH<EXCEPT U, C>
C354	87-012-157-089		C-CAP, S 330P-50 CH<U, C>
C354	87-010-994-089		C-CAP, S 680P-50 CH<EXCEPT U, C>
C355	87-010-260-049		CAP, E 47-25 SME

REF. NO.	PART NO.	カンリ NO.	DESCRIPTION
C357	87-010-189-089		C-CAP, S 8200P-50 B
C358	87-010-189-089		C-CAP, S 8200P-50 B
C361	87-010-197-089		C-CAP, S 0.01-25 B
C362	87-010-197-089		C-CAP, S 0.01-25 B
C363	87-010-213-089		C-CAP, S 0.015-25 B
C364	87-010-213-089		C-CAP, S 0.015-25 B
C365	87-010-192-089		C-CAP, S 0.022-50 F
C366	87-010-197-089		C-CAP, S 0.01-25 B
C401	87-010-402-089		CAP, E 2.2-50 SME
C402	87-010-402-089		CAP, E 2.2-50 SME
C403	87-010-182-089		C-CAP, S 2200P-50 B
C404	87-010-182-089		C-CAP, S 2200P-50 B
C405	87-010-197-089		C-CAP, S 0.01-25 B
C406	87-010-197-089		C-CAP, S 0.01-25 B
C407	87-010-401-049		CAP, E 1-50 SME
C408	87-010-401-049		CAP, E 1-50 SME
C409	87-010-180-089		C-CAP, S 1500P-50 B<EXCEPT U, C>
C409	87-010-181-089		C-CAP, S 1800P-50 B<U, C>
C410	87-010-180-089		C-CAP, S 1500P-50 B<EXCEPT U, C>
C410	87-010-181-089		C-CAP, S 1800P-50 B<U, C>
C411	87-010-186-089		C-CAP, S 4700P-50 B<EXCEPT U, C>
C411	87-010-187-089		C-CAP, S 5600P-50 B<U, C>
C412	87-010-186-089		C-CAP, S 4700P-50 B<EXCEPT U, C>
C412	87-010-187-089		C-CAP, S 5600P-50 B<U, C>
C421	87-010-177-089		C-CAP, S 820P-50 SL
C422	87-010-177-089		C-CAP, S 820P-50 SL
C451	87-010-173-089		C-CAP, S 390P-50 SL
C452	87-010-173-089		C-CAP, S 390P-50 SL
C453	87-010-178-089		C-CAP, S 1000P-50 B
C455	87-010-178-089		C-CAP, S 1000P-50 B<E, K, Z>
C456	87-010-101-089		CAP, E 220-16 SME
C457	87-010-197-089		C-CAP, S 0.01-25 B
C458	87-010-183-089		C-CAP, S 2700P-50 B
C459	87-010-183-089		C-CAP, S 2700P-50 B
C460	87-010-183-089		C-CAP, S 2700P-50 B
C463	87-010-189-089		C-CAP, S 8200P-50 B
C470	87-010-196-089		C-CAP, S 0.1-25 F
C501	87-010-401-049		CAP, E 1-50 SME
C502	87-010-401-049		CAP, E 1-50 SME
C503	87-010-179-089		C-CAP, S 1200P-50 B
C504	87-010-179-089		C-CAP, S 1200P-50 B
C505	87-012-142-089		C-CAP, S 0.33-16 F
C506	87-012-142-089		C-CAP, S 0.33-16 F
C507	87-010-180-089		C-CAP, S 1500P-50 B<EXCEPT U, C>
C507	87-010-177-089		C-CAP, S 820P-50 SL<U, C>
C508	87-010-180-089		C-CAP, S 1500P-50 B<EXCEPT U, C>
C508	87-010-177-089		C-CAP, S 820P-50 SL<U, C>
C509	87-010-371-089		CAP, E 470-6.3
C517	87-010-154-089		C-CAP, S 10P-50 CH
C518	87-010-154-089		C-CAP, S 10P-50 CH
C570	87-010-193-089		C-CAP, S 0.033-25 F
C571	87-010-193-089		C-CAP, S 0.033-25 F
C572	87-010-220-089		C-CAP, S 0.018-25 B
C573	87-010-196-089		C-CAP, S 0.1-25 F
C590	87-010-196-089		C-CAP, S 0.1-25 F
C592	87-010-404-049		CAP, E 4.7-50 SME
C593	87-010-404-049		CAP, E 4.7-50 SME
C594	87-010-404-049		CAP, E 4.7-50 SME
C595	87-010-112-089		CAP, E 100-16
C628	87-010-260-049		CAP, E 47-25 SME
C636	87-010-404-049		CAP, E 4.7-50 SME
C700	87-010-221-089		CAP, E 470-10
C701	87-010-384-049		CAP, E 100-25 SME
C702	87-010-404-049		CAP, E 4.7-50 SME
C703	87-010-197-089		C-CAP, S 0.01-25 B
C705	87-010-248-089		CAP, E 220-10 SME
C706	87-010-197-089		C-CAP, S 0.01-25 B
C707	87-010-197-089		C-CAP, S 0.01-25 B<EXCEPT HM>
C708	87-010-197-089		C-CAP, S 0.01-25 B
C710	87-010-312-089		C-CAP, S 15P-50 CH<EXCEPT HM>
C710	87-010-152-089		C-CAP, S 8P-50 CH<HM>
C711	87-010-213-089		C-CAP, S 0.015-25 B<EXCEPT U, C>
C711	87-010-192-089		C-CAP, S 0.022-50 F<U, C>
C712	87-010-213-089		C-CAP, S 0.015-25 B<EXCEPT U, C>
C712	87-010-192-089		C-CAP, S 0.022-50 F<U, C>
C715	87-010-179-089		C-CAP, S 1200P-50 B
C716	87-010-179-089		C-CAP, S 1200P-50 B
C719	87-010-196-089		C-CAP, S 0.1-25 F<EXCEPT HM>
C720	87-012-154-089		C-CAP, S 150P-50 CH<EXCEPT HM>
C721	87-010-401-049		CAP, E 1-50 SME
C722	87-010-401-049		CAP, E 1-50 SME
C723	87-010-405-049		CAP, E 10-50 SME
C724	87-010-178-089		C-CAP, S 1000P-50 B
C725	87-010-401-049		CAP, E 1-50 SME
C726	87-010-403-089		CAP, E 3.3-50 SME
C727	87-010-248-089		CAP, E 220-10 SME
C728	87-010-402-089		CAP, E 2.2-50 SME<Z>
C729	87-010-402-089		CAP, E 2.2-50 SME<Z>
C731	87-010-197-089		C-CAP, S 0.01-25 B
C732	87-010-197-089		C-CAP, S 0.01-25 B<EXCEPT HM>
C734	87-010-166-089		C-CAP, S 100P-50 SL<EXCEPT HM>
C741	87-010-402-089		CAP, E 2.2-50 SME
C742	87-010-172-089		C-CAP, S 330P-50 SL
C743	87-010-382-089		CAP, E 22-25 SME
C744	87-010-197-089		C-CAP, S 0.01-25 B
C745	87-010-197-089		C-CAP, S 0.01-25 B
C746	87-010-401-049		CAP, E 1-50 SME
C747	87-010-197-089		C-CAP, S 0.01-25 B
C748	87-010-404-049		CAP, E 4.7-50 SME
C749	87-010-405-049		CAP, E 10-50 SME
C750	87-010-544-089		CAP, E 0.1-50
C751	87-010-403-089		CAP, E 3.3-50 SME
C752	87-010-197-089		C-CAP, S 0.01-25 B
C753	87-010-213-089		C-CAP, S 0.015-25 B
C754	87-010-260-049		CAP, E 47-25 SME
C755	87-010-401-049		CAP, E 1-50 SME
C756	87-010-197-089		C-CAP, S 0.01-25 B
C756	87-010-197-089		C-CAP, S 0.01-25 B
C762	87-010-197-089		C-CAP, S 0.01-25 B<HM>
C763	87-010-197-089		C-CAP, S 0.01-25 B<HM>
C771	87-010-805-089		C-CAP, S 1-16F
C802	87-010-154-089		C-CAP, S 10P-50 CH<HM, Z>
C802	87-010-151-089		C-CAP, S 7P-50 CH<EXCEPT HM, Z>
C804	87-010-151-089		C-CAP, S 7P-50 CH<EXCEPT Z>
C805	87-010-150-089		C-CAP, S 6P-50 CH
C806	87-010-145-089		C-CAP, S 1P-50 CH
C807	87-010-154-089		C-CAP, S 10P-50 CH<EXCEPT Z>
C807	87-010-315-089		C-CAP, S 27P-50 CH<Z>
C808	87-010-166-089		C-CAP, S 100P-50 SL
C809	87-010-197-089		C-CAP, S 0.01-25 B
C810	87-010-197-089		C-CAP, S 0.01-25 B
C811	87-010-149-089		C-CAP, S 5P-50 CH
C812	87-010-154-089		C-CAP, S 10P-50 CH<EXCEPT HM>
C812	87-010-313-089		C-CAP, S 18P-50 CH<HM>
C813	87-010-197-089		C-CAP, S 0.01-25 B
C814	87-010-197-089		C-CAP, S 0.01-25 B
C818	87-010-197-089		C-CAP, S 0.01-25 B
C819	87-010-197-089		C-CAP, S 0.01-25 B
C820	87-010-260-049		CAP, E 47-25 SME
C821	87-010-197-089		C-CAP, S 0.01-25 B
C822	87-015-819-089		C-CAP, 0.01<HM>
C822	87-010-197-089		C-CAP, S 0.01-25 B<EXCEPT HM, Z>
C823	87-010-197-089		C-CAP, S 0.01-25 B
C826	87-010-197-089		C-CAP, S 0.01-25 B
C830	87-010-197-089		C-CAP, S 0.01-25 B
C831	87-010-148-089		C-CAP, S 4P-50 CH<EXCEPT HM, Z>
C831	87-010-151-089		C-CAP, S 7P-50 CH<HM>
C832	87-010-314-089		C-CAP, S 22P-50 CH<HM>
C833	87-018-134-089		CAP, CER CYL SS 0.01<E, K, Z>
C833	87-018-134-089		CAP, TC-U 0.01-16 Y<U, HE, LH>

REF. NO.	PART NO.	カンリ NO.	DESCRIPTION
C833	87-018-209-089		CAP, TC-U 0.1-50 F<HM>
C834	87-010-150-089		C-CAP, S 6P-50 CH<HM>
C835	87-010-154-089		C-CAP, S 10P-50 CH
C836	87-010-312-089		C-CAP, S 15P-50 CH
C837	87-010-312-089		C-CAP, S 15P-50 CH
C840	87-010-197-089		C-CAP, S 0.01-25 B
C843	87-010-146-089		C-CAP, S 2P-50 CH
C850	87-010-197-089		C-CAP, S 0.01-25 B<HM>
C851	87-010-197-089		C-CAP, S 0.01-25 B<Z>
C852	87-010-196-089		C-CAP, S 0.1-25 F
C860	87-010-148-089		C-CAP, S 4P-50 CH<Z>
C901	87-010-197-089		C-CAP, S 0.01-25 B<HM>
C902	87-010-197-089		C-CAP, S 0.01-25 B<HM>
C903	87-010-197-089		C-CAP, S 0.01-25 B<HM>
C904	87-010-263-089		CAP, E 100-10<HM>
C905	87-010-315-089		C-CAP, S 27P-50 CH<HM>
C906	87-010-197-089		C-CAP, S 0.01-25 B<HM>
C907	87-010-197-089		C-CAP, S 0.01-25 B<HM>
C908	87-015-819-089		C-CAP 0.01<HM>
C909	87-010-544-089		CAP, E 0.1-50<HM>
C911	87-014-051-089		CAP, PP 560P-100 J<HM>
C912	87-014-073-089		CAP, PP 4700P-100 J<HM>
C913	87-010-312-089		C-CAP, S 15P-50 CH<HM>
C914	87-012-150-089		C-CAP, S 20P-50 CH<HM>
C915	87-010-186-089		C-CAP, S 4700P-50 B<HM>
C916	87-010-384-089		CAP, E 100-25 SME<HM>
C917	87-015-819-089		C-CAP, 0.01<HM>
C920	87-010-197-089		C-CAP, S 0.01-25 B<HM>
C921	87-010-197-089		C-CAP, S 0.01-25 B<HM>
C922	87-010-197-089		C-CAP, S 0.01-25 B<HM>
C923	87-010-150-089		C-CAP, S 6P-50 CH<HM>
C924	87-010-197-089		C-CAP, S 0.01-25 B<HM>
C926	87-010-400-089		CAP, E 0.47-50 SME<HM>
C927	87-018-209-089		CAP, TC-U 0.1-50 F<HM>
C930	87-015-785-089		C-CAP, 0.1-25 F<HM>
C941	87-010-197-089		C-CAP, S 0.01-25 B<E, K, Z>
C944	87-010-154-089		C-CAP, S 10P-50 CH<E, K, Z>
C944	87-010-311-089		C-CAP, S 12P-50 CH<U, HE, C, LH>
C945	87-014-050-089		CAP, PP 510P-100J<E, K, Z>
C946	87-010-401-049		CAP, E 1-50 SME
C950	87-010-166-089		C-CAP, S 100P-50 SL<EXCEPT HM>
C964	87-010-154-089		C-CAP, S 10P-50 CH<E, K, Z>
C983	87-010-544-089		CAP, E 0.1-50
C990	87-010-197-089		C-CAP, S 0.01-25 B<EXCEPT HM>
CF741	82-794-670-019		BFU 450C4N
CF801	87-008-261-019		FLTR, SFE10.7MA5-A<EXCEPT Z>
CF801	82-799-621-019		FLTR, SFE10.7MA5A<Z>
CF802	87-008-261-019		FLTR, SFE10.7MA5-A
CF803	87-008-261-019		FLTR, SFE10.7MA5-A<Z>
D801	87-027-900-089		VARI-CAP, 1SV147
D801	87-002-730-089		VARI-CAP, SVC203SPA<HM>
D802	87-027-900-089		VARI-CAP, 1SV147<EXCEPT HM>
D802	87-002-730-089		VARI-CAP, SVC203SPA<HM>
D803	87-027-900-089		VARI-CAP, 1SV147<EXCEPT HM>
D803	87-002-730-089		VARI-CAP, SVC203SPA<HM>
D908	87-017-568-089		VARI-CAP, SVC342M/L<HM>
FT101	83-NE2-618-019		F-CABEL, 5P-2.5
ICP2	87-001-486-019		IC, ICP-N15<U>
J250	87-049-855-019		JACK, 6.3 W/S
J254	87-033-226-019		TERMINAL, SP 4P R<HE, HM, LH, E, K>
J254	87-033-215-019		TERMINAL, SP 4P R<U, C, Z>
J652	80-MT3-616-019		JACK, PIN 2P
J801	82-NF5-621-019		ANT TERM, JBT0222<U, HE, HM, C, LH>
J801	81-631-646-019		ANT TERM, 2P PAS<E, K, Z>
L231	87-005-366-019		COIL, 1UH<E, K, Z>
L232	87-005-366-019		COIL, 1UH<E, K, Z>
L401	87-003-131-089		COIL, 10MH J
L402	87-003-131-089		COIL, 10MH J
L451	87-007-300-019		COIL, OSC BIAS 85K
L741	81-631-611-019		COIL, QUAD (SINGLE)
L742	81-631-612-019		CFMT 450A<HM>
L742	87-008-491-019		FLTR, PACFAZ 450<EXCEPT HM>
L801	87-006-219-019		COIL, ANT FM 3/4T, S
L802	87-006-210-019		COIL, ANT FM 2 3/4T
L803	87-006-200-019		COIL, RF FM 3-1/2T, L5
L804	87-006-201-019		COIL, RF FM3-1/2TS, L5
L805	87-003-098-089		COIL, 2.2UH
L806	87-008-427-019		COIL, FMIFT (4T)
L807	87-006-252-019		COIL, OSC FM (7K)
L831	87-006-201-019		COIL, RF FM3-1/2TS, L5<Z>
L832	87-003-098-089		COIL, 2.2UH
L901	87-006-236-019		COIL, ANT MW(SG)<HM>
L902	87-006-237-019		COIL, ANT SW1(SG)<HM>
L903	87-006-238-019		COIL, ANT SW2(SG)<HM>
L904	87-005-372-089		COIL, S 1MH<HM>
L905	87-005-372-089		COIL, S 1MH<HM>
L906	87-007-326-019		COIL, OSC MW(SG)<HM>
L907	87-007-327-019		COIL, OSC SW1(SG)<HM>
L908	87-007-328-019		COIL, OSC SW2(SG)<HM>
L941	87-006-234-019		COIL, ANT LW<E, K, Z>
L942	87-007-323-019		COIL, OSC LW S<E, K, Z>
L981	82-NT3-632-019		AM PACK 1, SWG<U, HE, C, LH>
L981	87-042-147-019		AM PACK 4<E, K, Z>
R105	87-022-050-089		RESIS, METAL 1W-0.22J
R106	87-022-050-089		RESIS, METAL 1W-0.22J
R243	87-022-391-089		RES, M/F 0.47-1W<U, HE, HM, C, LH>
R243	87-022-184-089		RES, METAL 1W-0.22 J<E, K, Z>
R244	87-022-391-089		RES, M/F 0.47-1W<U, HE, HM, C, LH>
R244	87-022-184-089		RES, METAL 1W-0.22 J<E, K, Z>
SFR451	87-024-172-089		SFR, 10K DIA6 V<U, C>
SFR451	87-024-173-089		SFR, 22K DIA6 V<EXCEPT U, C>
SFR452	87-024-172-089		SFR, 10K DIA6 V<U, C>
SFR452	87-024-173-089		SFR, 22K DIA6 V<EXCEPT U, C>
SFR721	87-024-171-089		SFR, 4.7K DIA6 V
SFR722	87-024-174-089		SFR, 33K DIA6 V
TC701	87-011-220-089		CAP, TRIMMER 20P VCT<HM>
TC701	87-011-221-089		TRIMER, 30P VCT51
TC801	87-011-219-089		CAP, TRIMMER 10P VCT
TC802	87-011-219-089		CAP, TRIMMER 10P VCT
TC803	87-011-219-089		CAP, TRIMMER 10P VCT<E, K, Z>
TC942	87-011-221-089		TRIMMER, 30P VCT51<E, K, Z>
X701	87-030-163-019		VIB, XTAL 7.2MHZ

FRONT C.B

C201	87-010-178-089		C-CAP, S 1000P-50 B
C202	87-010-196-089		C-CAP, S 0.1-25 F
C203	87-010-404-049		CAP, E 4.7-50 SME
C204	87-010-404-049		CAP, E 4.7-50 SME
C205	87-010-263-049		CAP, E 100-10
C206	87-010-401-049		CAP, E 1-50 SME
C207	87-010-401-049		CAP, E 1-50 SME
C208	87-010-248-089		CAP, E 220-10 SME
C209	87-010-196-089		C-CAP, S 0.1-25 F
C210	87-010-405-049		CAP, E 10-50 SME
C501	87-010-248-089		CAP, E 220-10 SME
C502	87-010-401-049		CAP, E 1-50 SME
C504	87-010-401-049		CAP, E 1-50 SME
C505	87-010-405-049		CAP, E 10-50 SME
C506	87-012-157-089		C-CAP, S 330P-50 CH
C507	87-010-545-049		CAP, E 0.22-50 SME
C508	87-010-167-089		C-CAP, S 120P-50 SL
C509	87-010-183-089		C-CAP, S 2700P-50 B
C510	87-010-401-049		CAP, E 1-50 SME
C511	87-010-196-089		C-CAP, S 0.1-25 F
C512	87-010-177-089		C-CAP, S 820P-50 SL
C513	87-010-178-089		C-CAP, S 1000P-50 B
C514	87-010-178-089		C-CAP, S 1000P-50 B
C515	87-010-178-089		C-CAP, S 1000P-50 B
C710	87-010-196-089		C-CAP, S 0.1-25 F<HE, HM>

REF. NO.	PART NO.	カンリ NO.	DESCRIPTION
C711	87-010-187-089		C-CAP, S 5600P-50 B<HE, HM>
C712	87-010-178-089		C-CAP, S 1000P-50 B<HE, HM>
C713	87-010-196-089		C-CAP, S 0.1-25 F<HE, HM>
C714	87-010-260-049		CAP, E 47-25 SME<HE, HM>
C717	87-010-956-089		C-CAP, S 0.068-25 B<HE, HM>
C718	87-010-187-089		C-CAP, S 5600P-50 B<HE, HM>
C719	87-010-178-089		C-CAP, S 1000P-50 B<HE, HM>
C720	87-012-141-089		C-CAP, S 0.22-16 F<HE, HM>
C721	87-010-186-089		C-CAP, S 4700P-50 B<HE, HM>
C722	87-010-263-049		CAP, E 100-10<HE, HM>
C723	87-010-196-089		C-CAP, S 0.1-25 F<HE, HM>
C724	87-012-157-089		C-CAP, S 330P-50 CH<HE, HM>
C725	87-012-157-089		C-CAP, S 330P-50 CH<HE, HM>
FL101	82-NF7-631-019		FL
FT102	82-NF7-647-019		CABLE, FFC, 13P-1.25
J501	82-NF7-630-019		JACK, 3.5 MO
L701	87-005-454-089		COIL, 680UH FLR50 K<HE, HM>
S301	87-036-170-089		SW, TACT
S302	87-036-170-089		SW, TACT
S303	87-036-170-089		SW, TACT
S304	87-036-170-089		SW, TACT
S305	87-036-170-089		SW, TACT
S306	87-036-170-089		SW, TACT
S307	87-036-170-089		SW, TACT
S308	87-036-170-089		SW, TACT
S309	87-036-170-089		SW, TACT
S310	87-036-170-089		SW, TACT
S311	87-036-170-089		SW, TACT
S312	87-036-170-089		SW, TACT
S314	87-036-170-089		SW, TACT
S315	87-036-170-089		SW, TACT
S316	87-036-170-089		SW, TACT
S317	87-036-170-089		SW, TACT
VR501	81-MX4-637-019		VR, 10KA RK11K1130
VR502	82-VP2-636-019		VR, SL 10K B<HE, HM>
X201	87-008-394-089		CF CST 4.19 MGW

MVR C.B

C401	87-010-384-049		CAP, E 100-25 SME
C402	87-010-197-089		C-CAP, S 0.01-25 B
C601	87-010-197-089		C-CAP, S 0.01-25 B
C602	87-010-197-089		C-CAP, S 0.01-25 B
C605	87-010-154-089		C-CAP, S 10P-50 CH
C606	87-010-154-089		C-CAP, S 10P-50 CH
C607	87-010-384-049		CAP, E 100-25 SME
C608	87-010-248-089		CAP, E 220-10 SME
C609	87-012-154-089		C-CAP, S 150P-50 CH
C610	87-012-154-089		C-CAP, S 150P-50 CH

REF. NO.	PART NO.	カンリ NO.	DESCRIPTION
C611	87-010-184-089		C-CAP, S 3300P-50 B
C612	87-010-184-089		C-CAP, S 3300P-50 B
C613	87-012-154-089		C-CAP, S 150P-50 CH
C614	87-012-154-089		C-CAP, S 150P-50 CH
C615	87-012-365-089		C-CAP, S 0.027-25V BK
C616	87-012-365-089		C-CAP, S 0.027-25V BK
C617	87-010-320-089		C-CAP, S 68P-50 CH
C618	87-010-320-089		C-CAP, S 68P-50 CH
C619	87-010-426-089		C-CAP, S 0.012-25 B
C620	87-010-426-089		C-CAP, S 0.012-25 B
C621	87-010-180-089		C-CAP, S 1500P-50 B
C622	87-010-180-089		C-CAP, S 1500P-50 B
C623	87-010-426-089		C-CAP, S 0.012-25 B
C624	87-010-426-089		C-CAP, S 0.012-25 B
C625	87-010-401-049		CAP, E 1-50 SME
C626	87-010-401-049		CAP, E 1-50 SME
C627	87-010-192-089		C-CAP, S 0.022-50 F
C628	87-010-196-089		C-CAP, S 0.1-25 F
ICP1	87-001-196-089		IC, ICP-N10<EXCEPT U, C>
MVR601	82-NF7-676-019		VR, 50KBX2 RK16812 MG
SFR401	87-024-169-089		SFR, 2.2K DIA6 V

KEY C.B

S318	87-036-170-089		SW, TACT
S319	87-036-170-089		SW, TACT
S320	87-036-170-089		SW, TACT
S321	87-036-170-089		SW, TACT
S322	87-036-170-089		SW, TACT

AC1 C.B

⚠	87-033-147-019		CLAMP, FUSE<HE, HM, LH>
⚠	87-033-213-089		CLAMP, FUSE SMK<U, C, E, K, Z>
⚠	82-304-743-019		TERMINAL, 1P
⚠F101	87-035-480-019		FUSE, 1.5A 250V GMC<HM, LH>
⚠F101	87-035-481-019		FUSE, F1.25A 250V<HE>
⚠F101	87-035-412-019		FUSE, T1.25A 250V UL<U, C>
⚠F101	87-035-359-019		FUSE, T500MA<E, K, Z>
⚠PT101	83-NE2-611-019		PT, 3NE2 EKZ<E, K, Z>
⚠PT101	82-NF7-655-019		PT, HM (EI-66)<HE, HM, LH>
⚠PT101	82-NF7-658-119		PT, U (EI-66)<U, C>
⚠R150	88-140-225-089		C-CAP, RES 2.2M-1/2W<U, C>
⚠SW101	87-036-235-019		SW, SL ESD 269<HE, HM, LH>

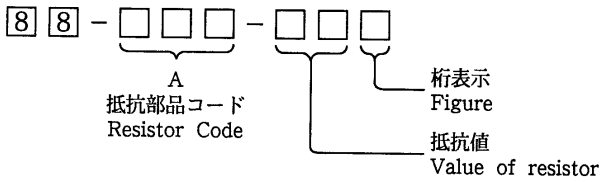
AC2 C.B

HEAD FLEX C.B<EXCEPT U, C>

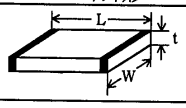
PH	S6-201-070-260	HEAD P-5044BD-24F<EXCEPT U, C>
S6	S6-403-020-040	SW, SLIDE R663167<EXCEPT U, C>

○チップ抵抗部品コード／CHIP RESISTOR PART CODE

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



チップ抵抗
Chip resistor

Wattage 容量	Type 種類	Tolerance 許容誤差	Symbol 記号	Dimensions／寸法 (mm) Form/外形	L	W	t	Resistor Code : A 抵抗コード : A
1/32W	1608	±5%	C1		1.6	0.8	0.35	108
1/10W	2125	±5%	C1		2	1.25	1.45	118
1/8W	3126	±5%	C1		3.2	1.6	0.5 ~0.7	128

TRANSISTOR ILLUSTRATION

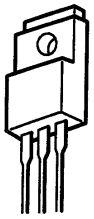
2SA970
2SA1015
2SA1318
2SC1815

2SC2001
2SC3266
2SC3331

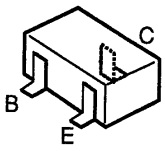
2SK246

DTA114YS
DTC114YS
2SC1740

2SK544

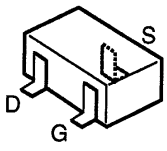


2SB1370

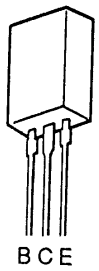


2SA1162
2SC2712
2SC2714
2SC3326

DTA114TK
DTA143EK
DTA144WK
DTC143XK
DTC144EK



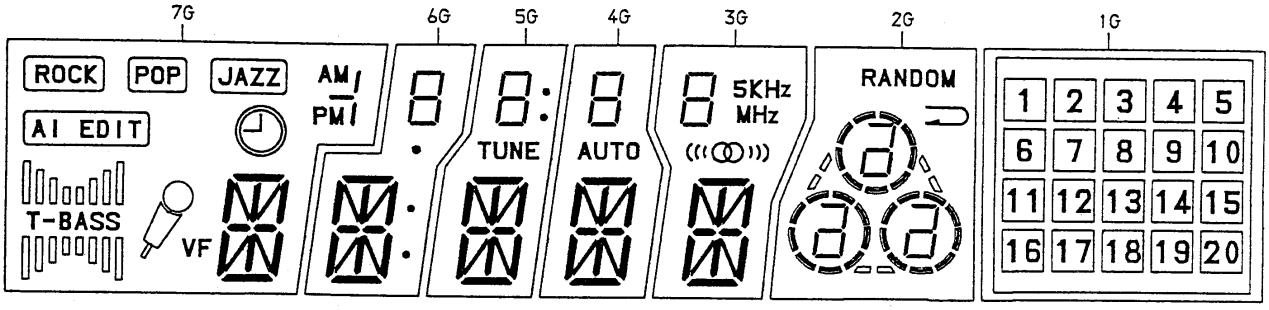
2SK211
2SK302



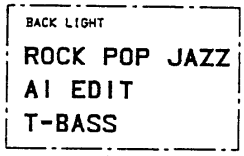
2SD2005

FL GRID ASSIGNMENT／ANODE CONNECTION

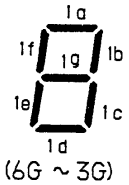
GRID ASSIGNMENT



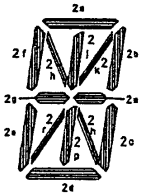
SEGMENT DESIGNATIO



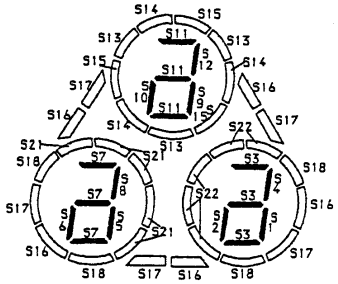
(7G)



(6G ~ 3G)



(7G ~ 3G)

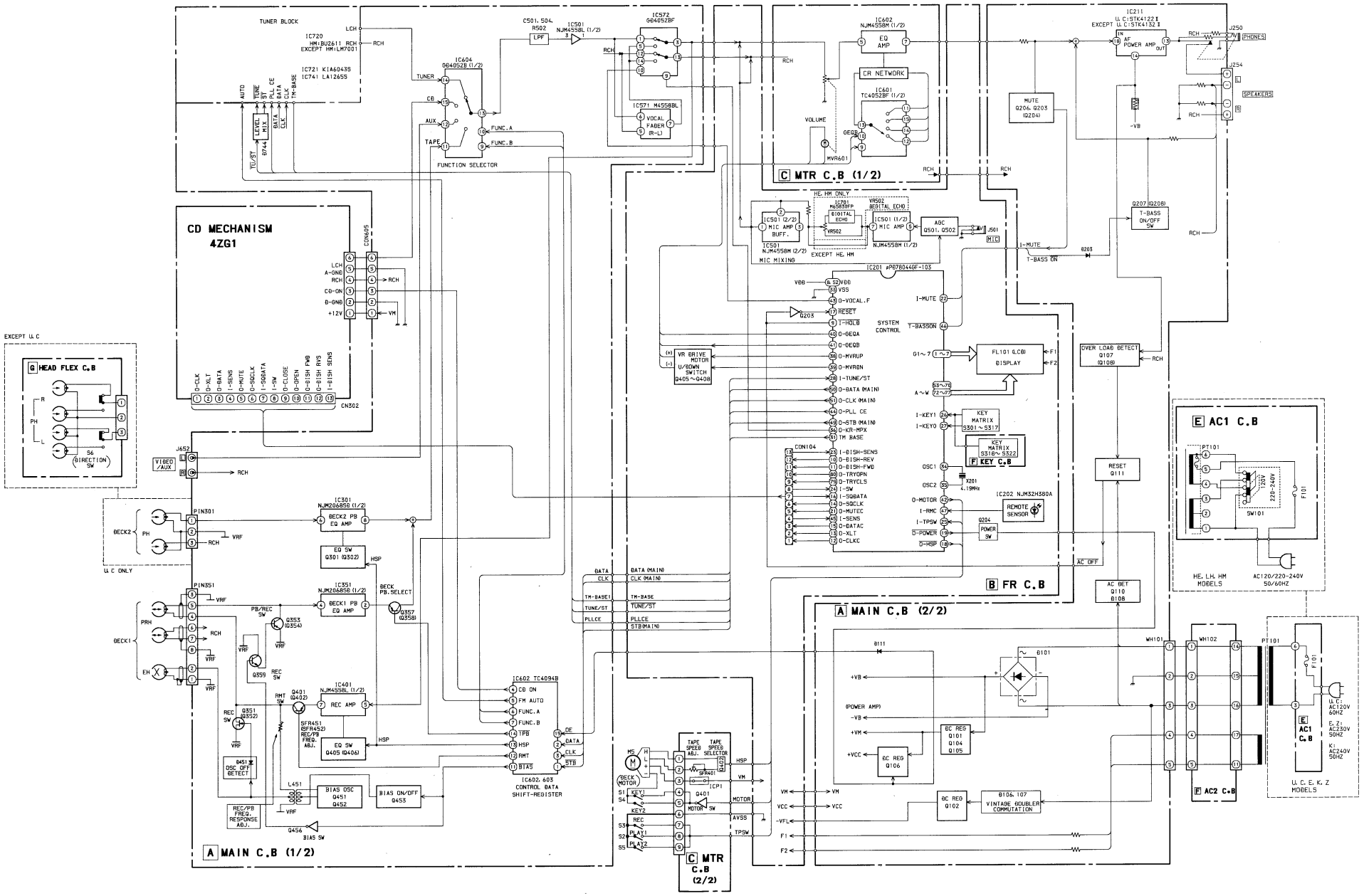


(2G)

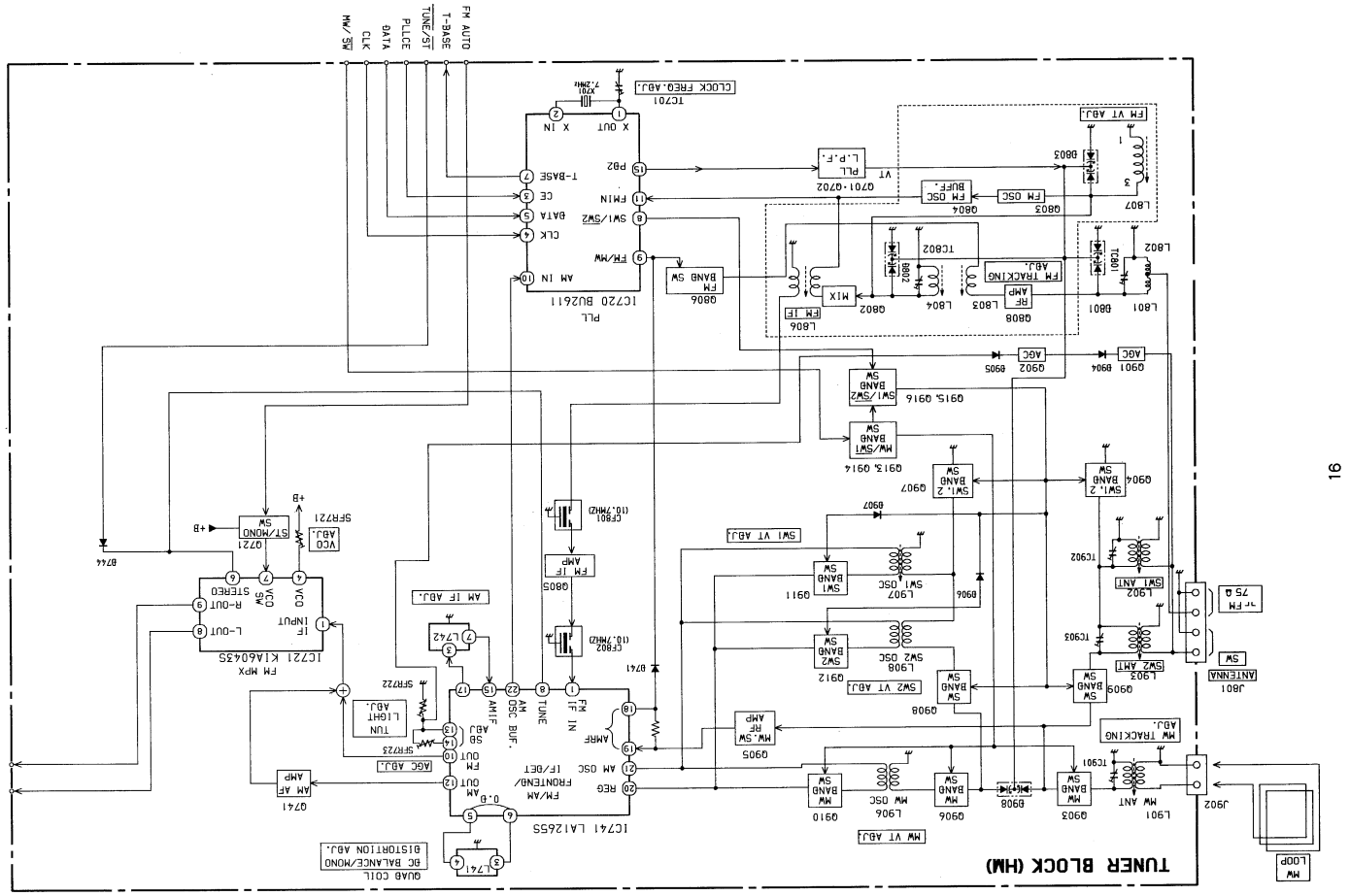
ANODE CONNECTION

	7G	6G	5G	4G	3G	2G	1G
A	2d	2d	2d	2d	2d	S1	20
B	2j, 2p	2j, 2p	2j, 2p	2j, 2p	2j, 2p	S2	19
C	2n	2n	2n	2n	2n	S3	18
D	2r	2r	2r	2r	2r	S4	17
E	2c	2c	2c	2c	2c	S5	16
F	2e	2e	2e	2e	2e	S6	15
G	2m	2m	2m	2m	2m	S7	14
H	2g	2g	2g	2g	2g	S8	13
I	2f	2f	2f	2f	2f	S9	12
J	2b	2b	2b	2b	2b	S10	11
K	2k	2k	2k	2k	2k	S11	10
L	2h	2h	2h	2h	2h	S12	9
M	2a	2a	2a	2a	2a	S13	8
N	VF	○	TUNE	AUTO	(((◎)))	S14	7
O	|||||	○	○(DOWN)	—	MHz	S15	6
P	(AI EDIT)	—	○ (UP)	—	KHz	S16	5
Q	◴	—	—	—	5	S17	4
R	PM	1d	1d	1d	1d	S18	3
S	—	1e	1e	1e	1e	—	2
T	/	1c	1c	1c	1c	—	1
U	AM	1g	1g	1g	1g	S21	—
V	(JAZZ)	1f	1f	1f	1f	S22	—
W	(POP)	1b	1b	1b	1b	⮌	—
X	(ROCK)	1a	1a	1a	1a	RANDOM	—
ST1	BACK LIGHT	—	—	—	—	—	▦

BLOCK DIAGRAM – 1 (MAIN/FRONT)

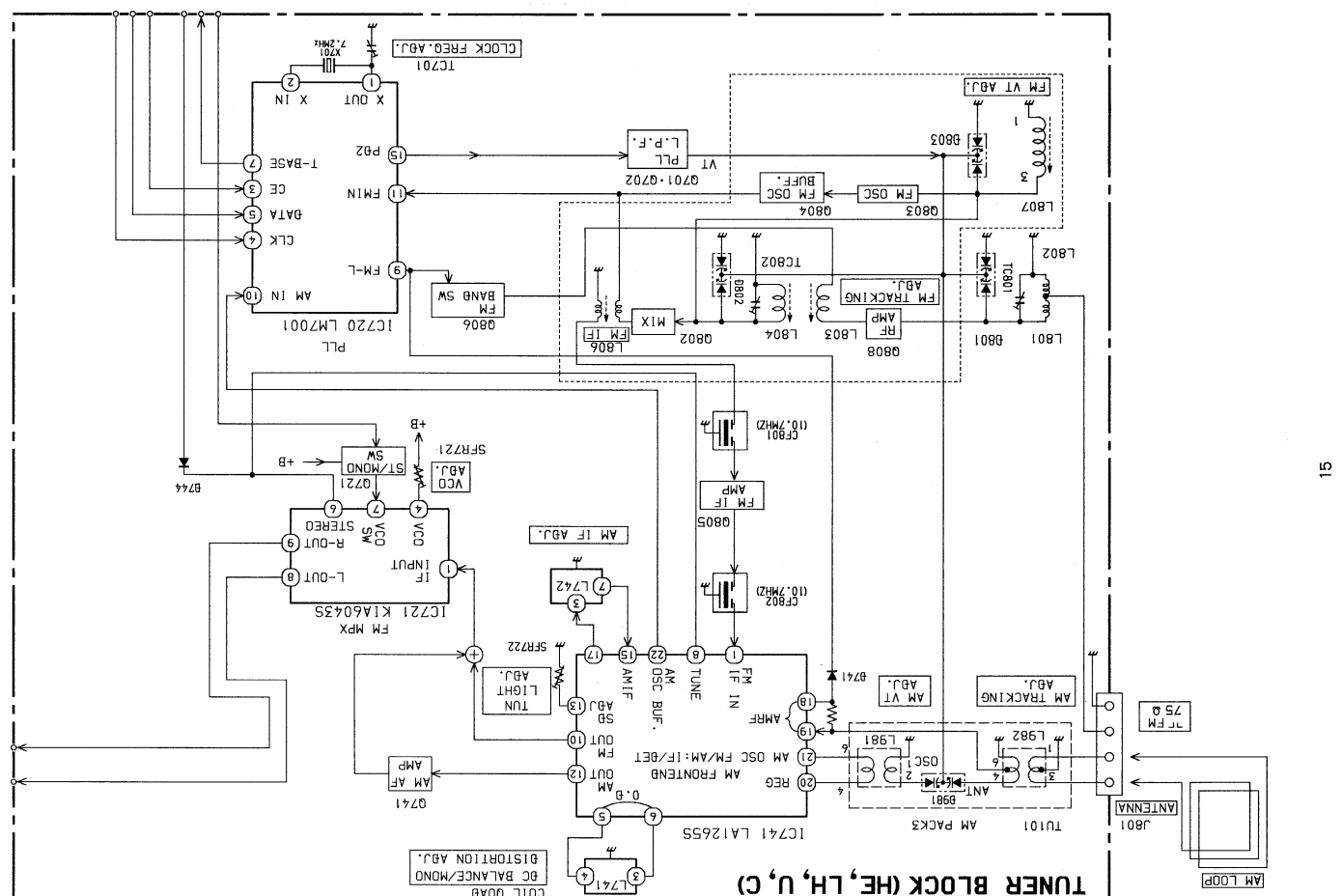


BLOCK DIAGRAM – 3 (TUNER : HM)



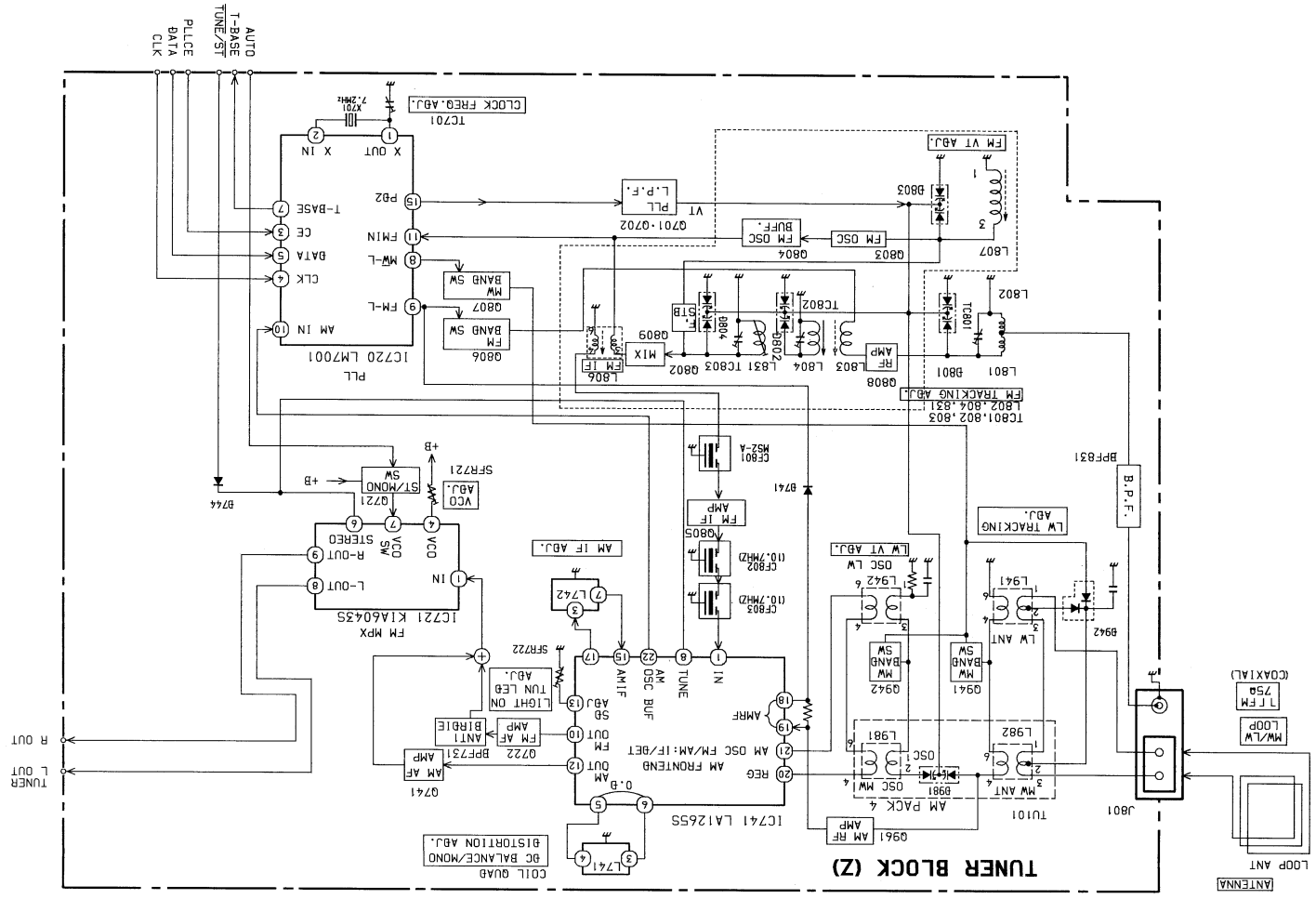
16

BLOCK DIAGRAM – 2 (TUNER : HE, LH, U, C)

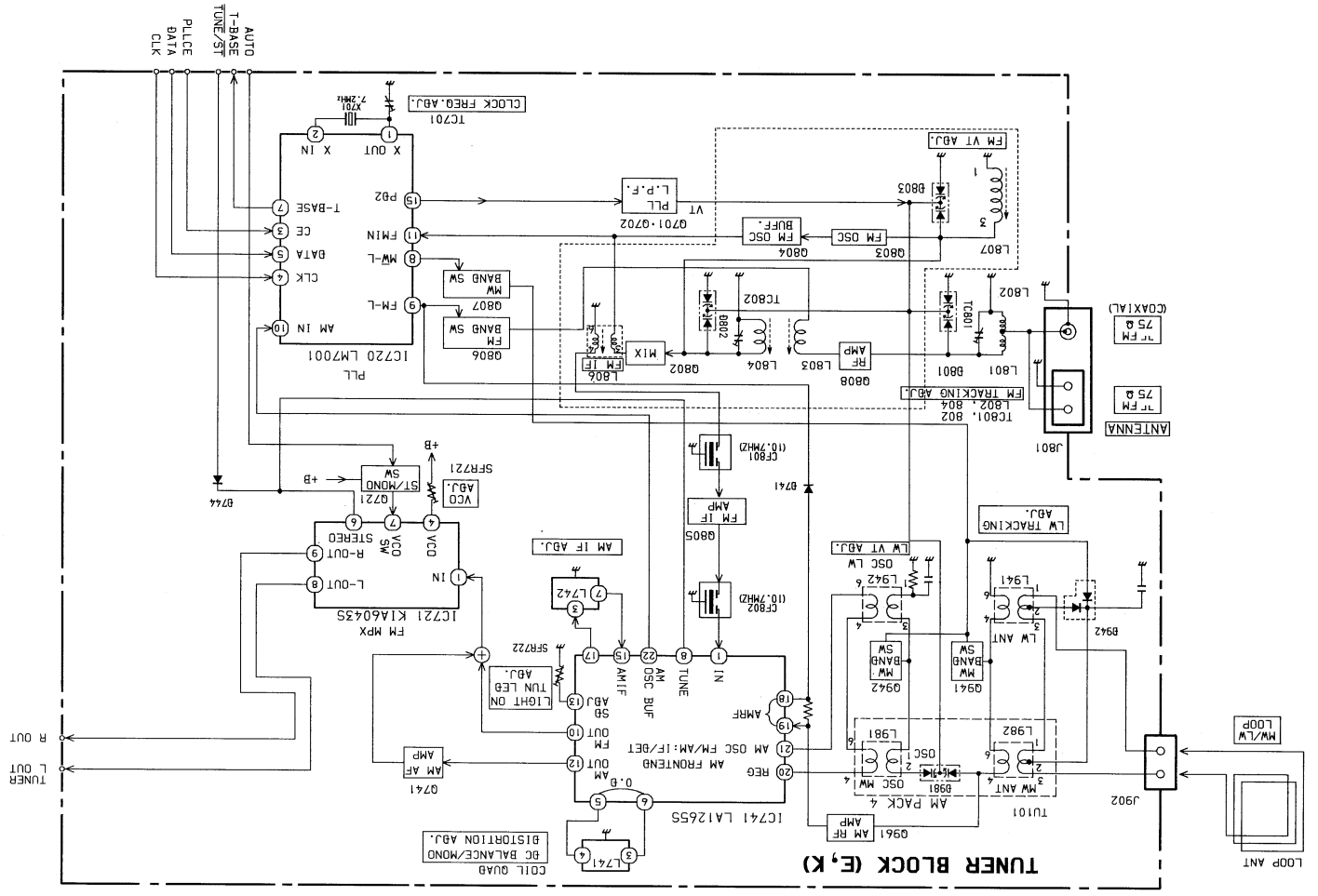


15

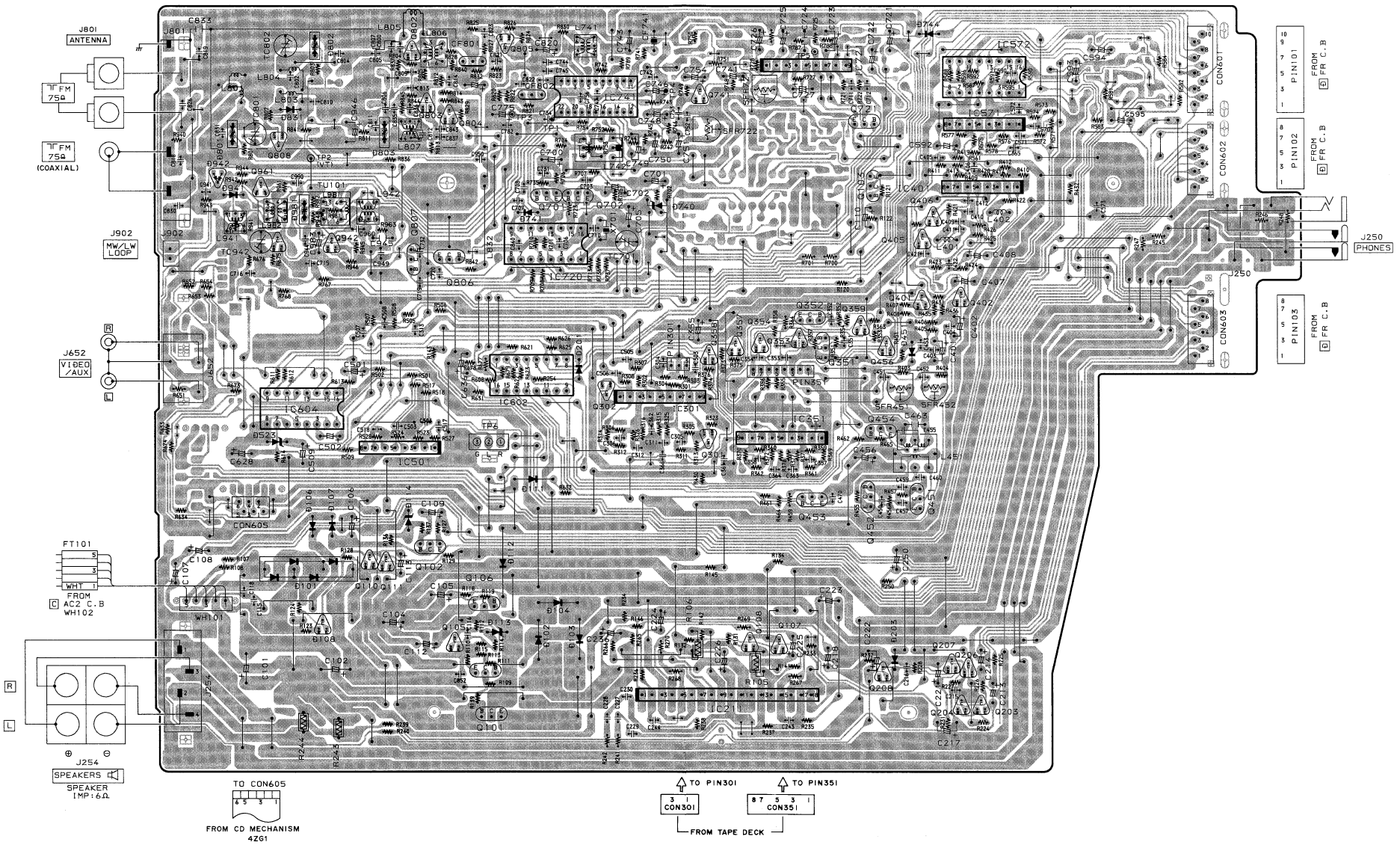
BLOCK DIAGRAM – 5 (TUNER : Z)



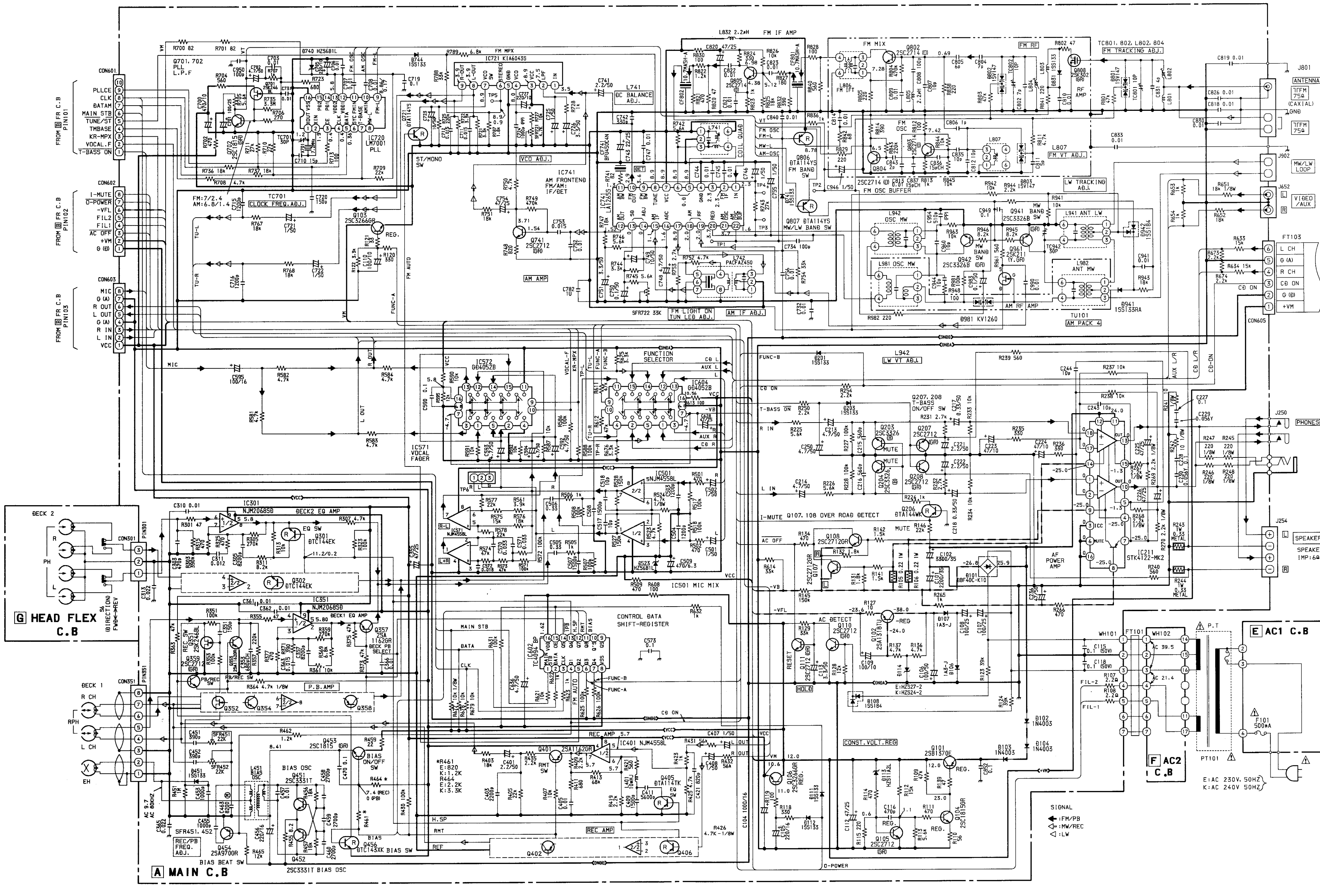
BLOCK DIAGRAM – 4 (TUNER : E, K)



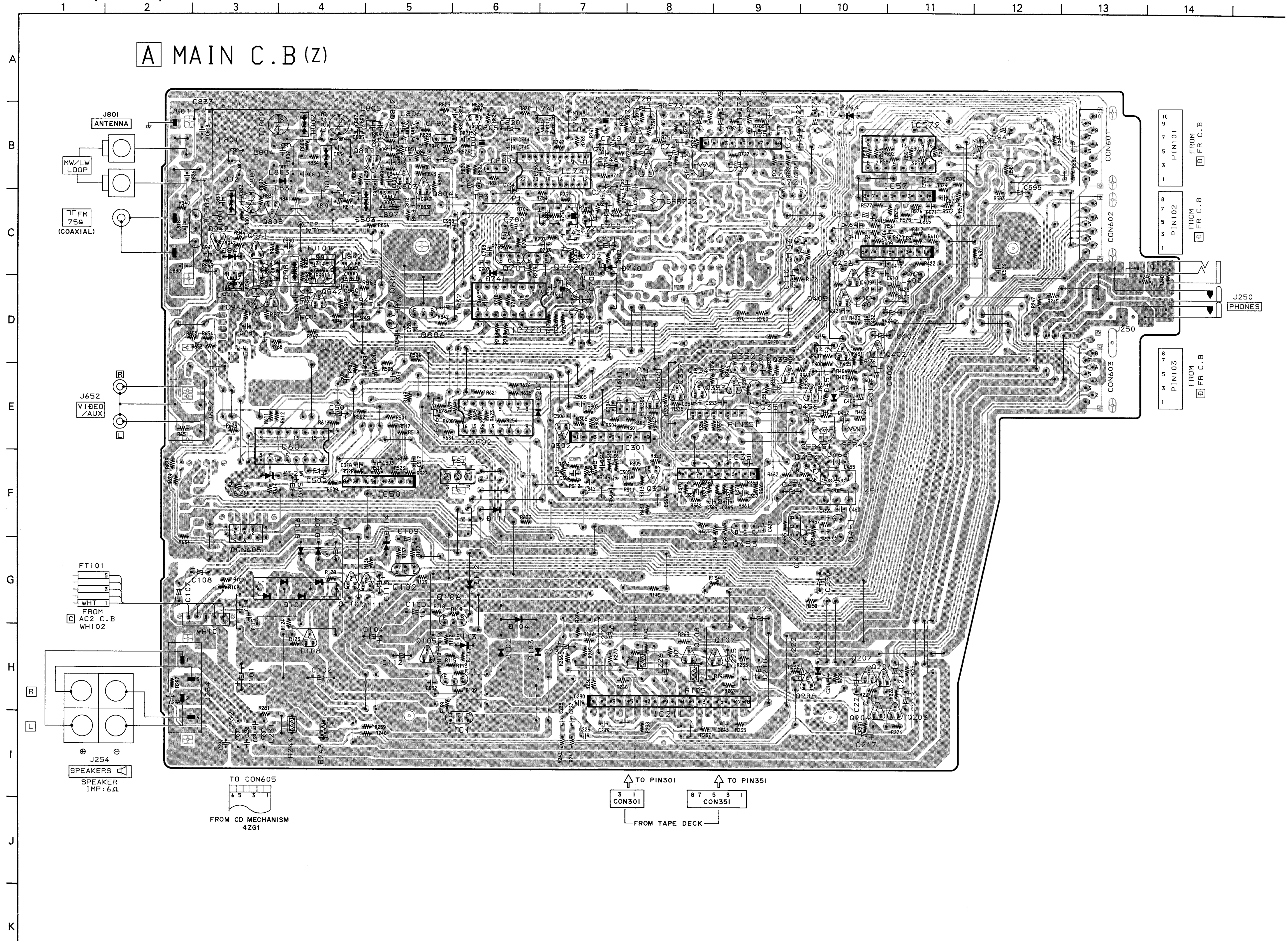
A MAIN C.B (E,K)


J801
ANTENNA
FM 75Ω
FM 75Ω (COAXIAL)
J902
MW/LW LOOP
J652
VIDEO /AUX
FT101
FROM C AC2 C.B WH102
J254
SPEAKERS
SPEAKER IMP:6Ω
TO CON605
FROM CD MECHANISM 4ZG1
TO PIN301
TO PIN351
CON301
CON351
FROM TAPE DECK
J250
PHONES
FROM B FR C.B
PIN101
PIN102
PIN103
CON601
CON602
CON603
IC501
IC602
IC604
IC572
IC571
IC401
IC220
IC701
IC351
CON605

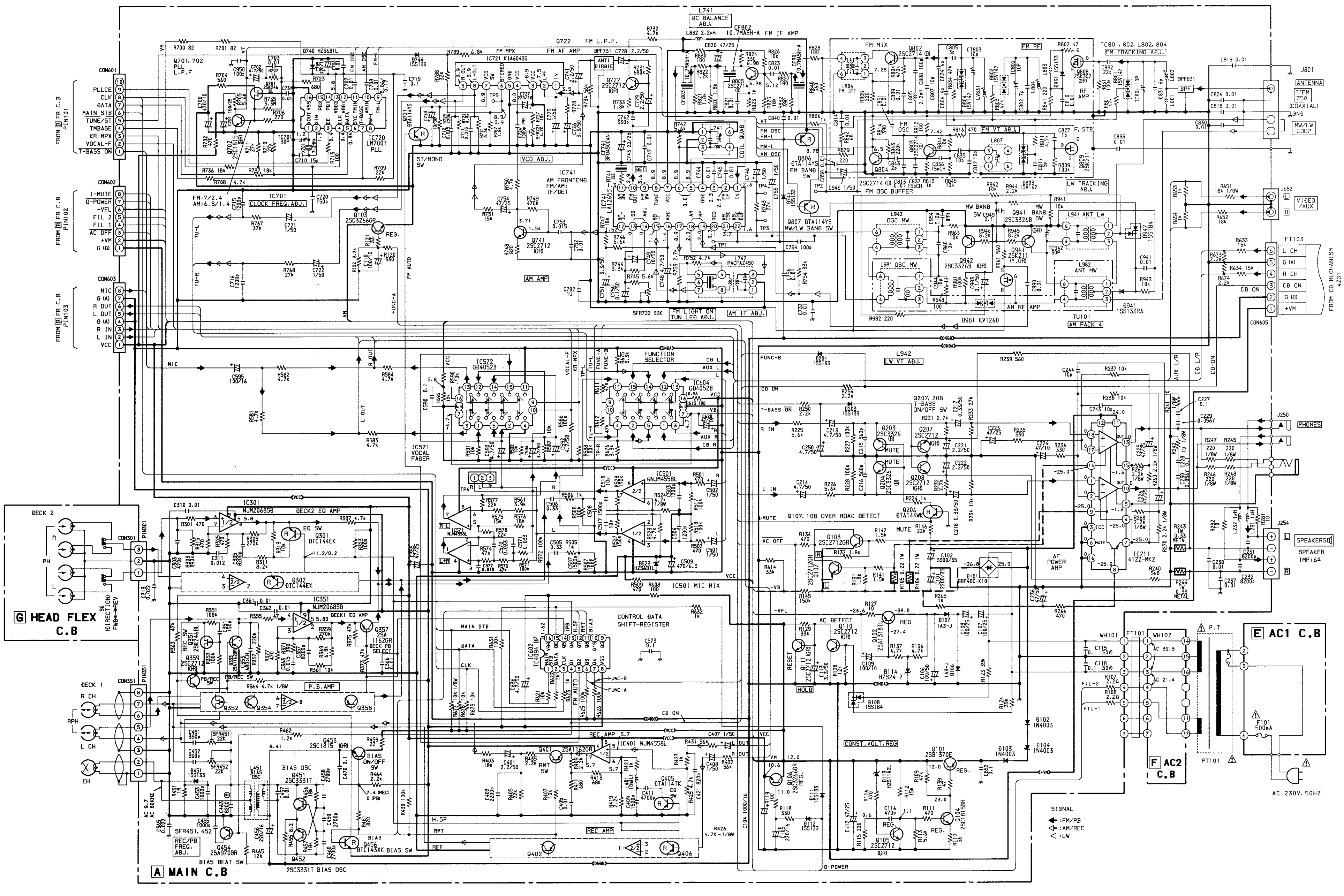
SCHEMATIC DIAGRAM – 1 (MAIN : E, K)



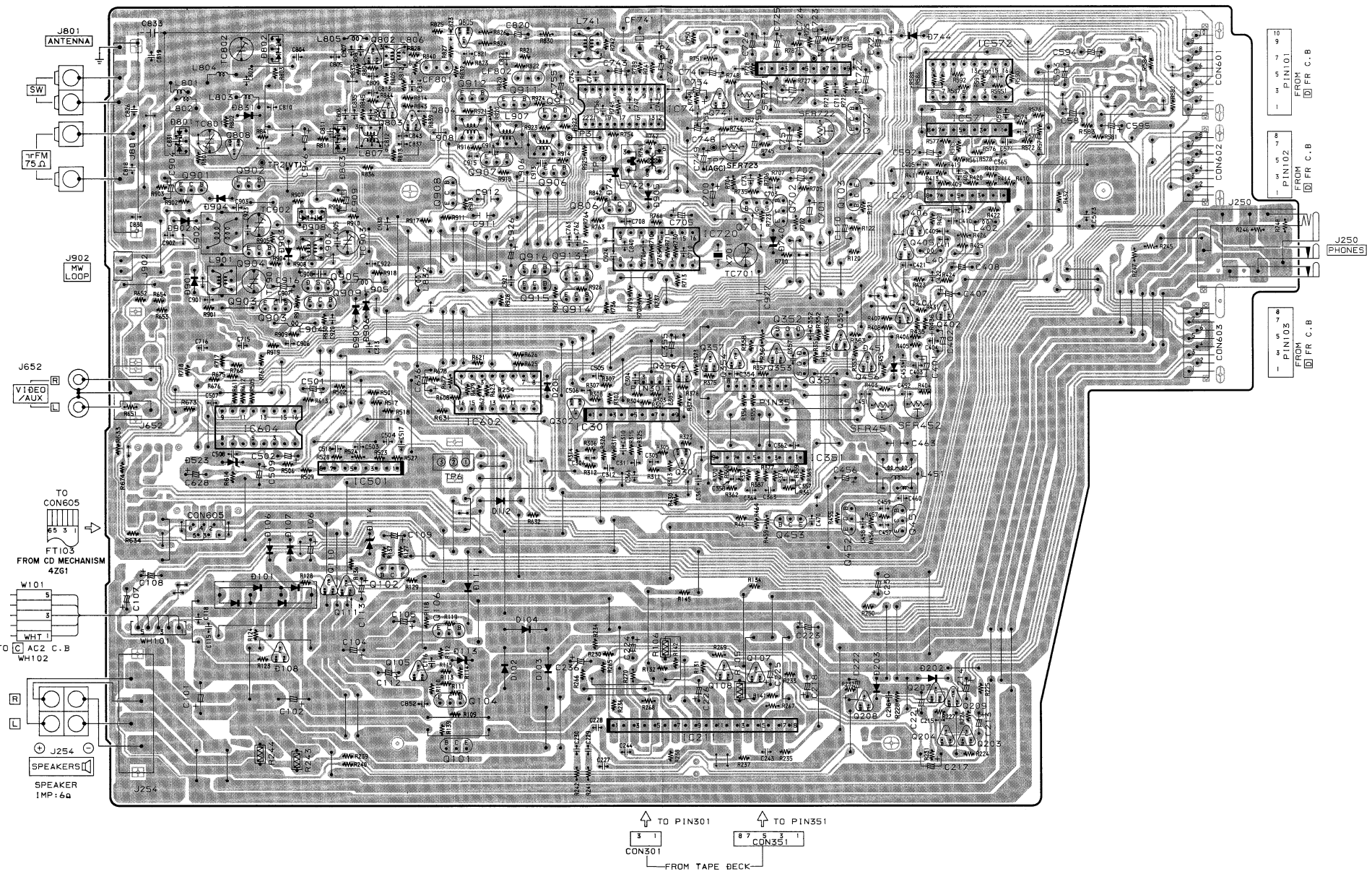
WIRING – 2 (MAIN : Z)



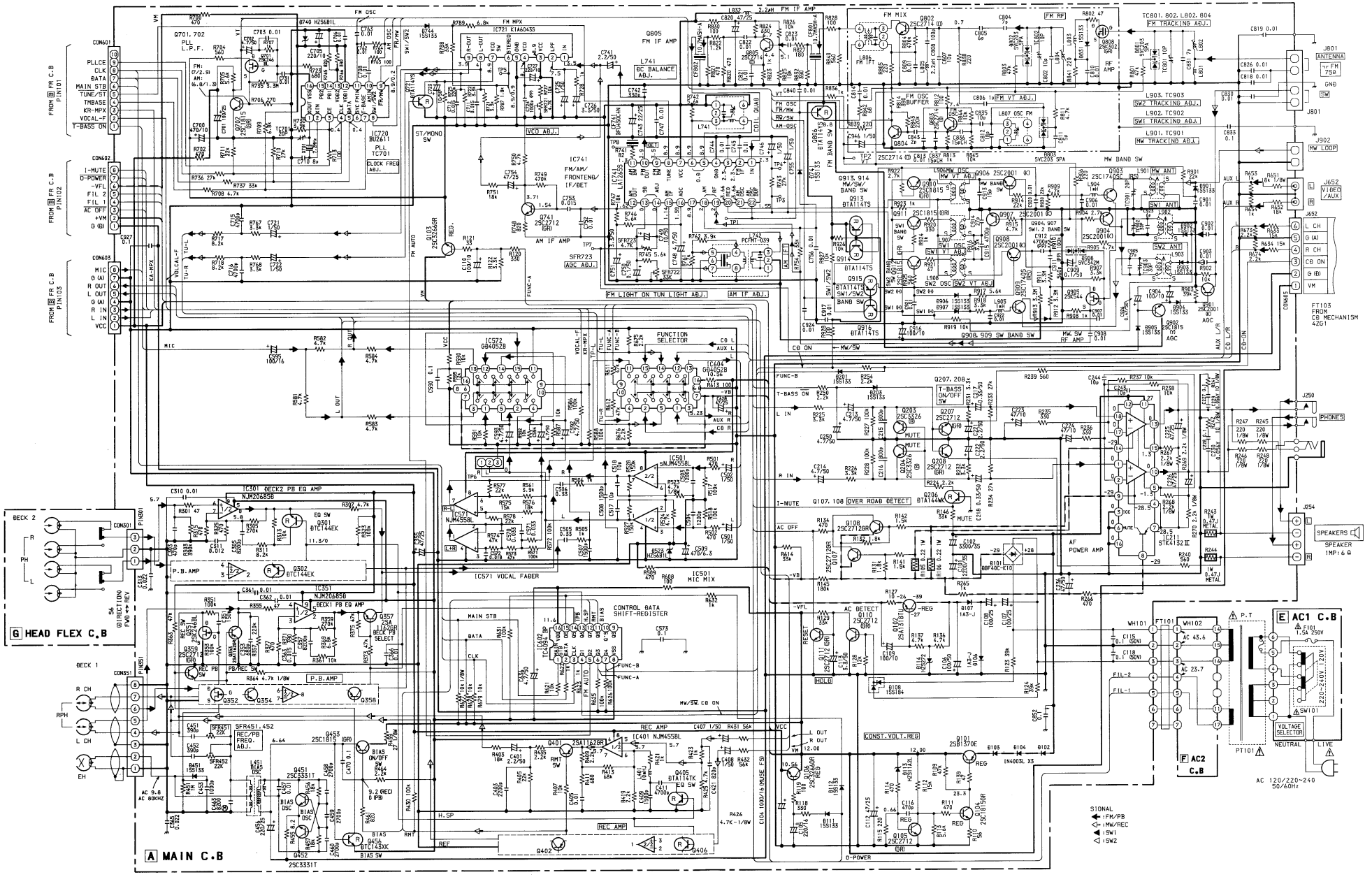
SCHEMATIC DIAGRAM – 2 (MAIN : Z)



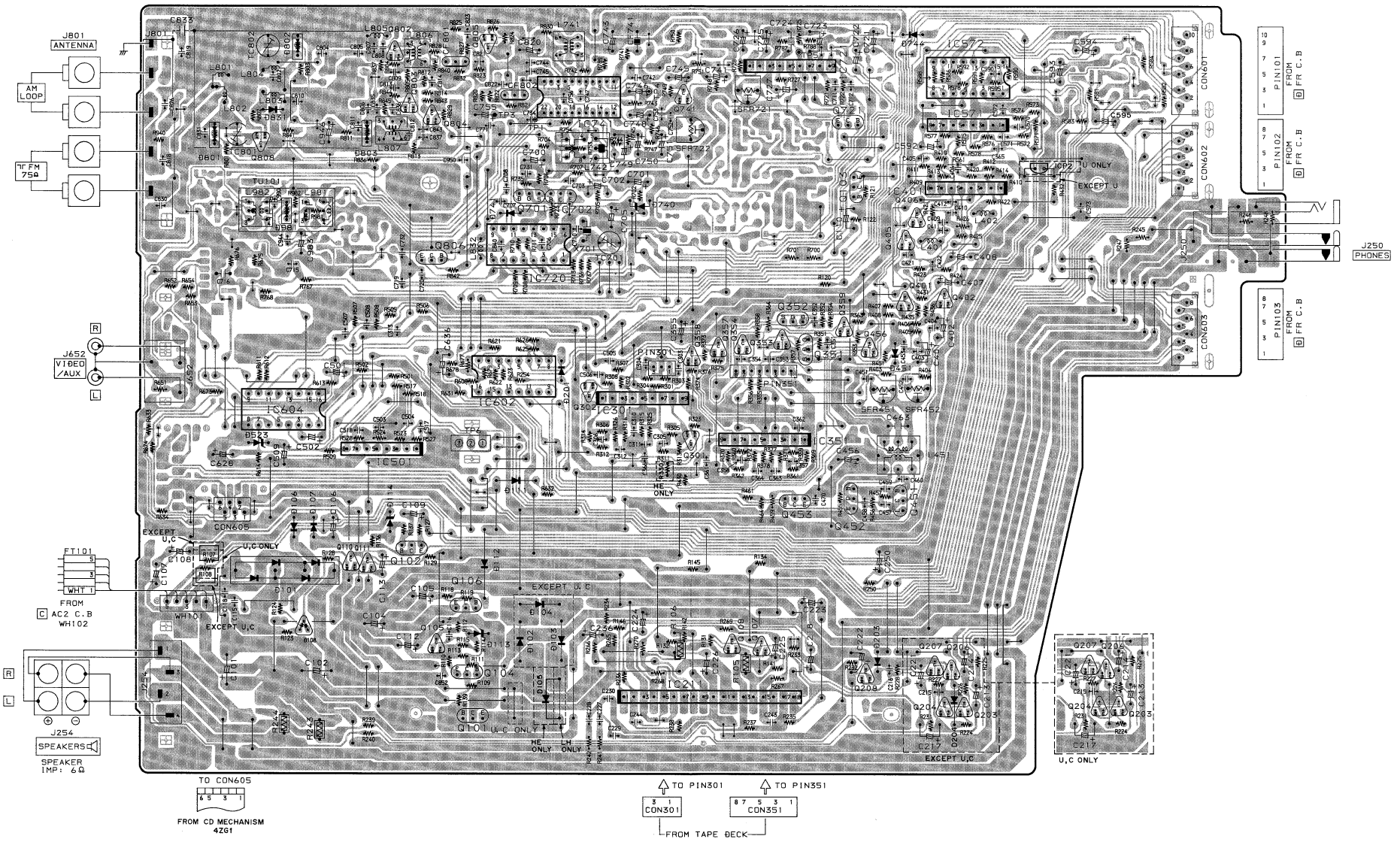
A MAIN C.B (HM)


J801
ANTENNA
SW
FM 75Ω
J902
MW LOOP
J652
VIDEO /AUX
R
L
TO CON605
FT103
FROM CD MECHANISM 4ZG1
W101
WHT
TO C AC2 C.B WH102
J254
SPEAKERS
SPEAKER IMP:6Ω
J250
PHONES
FROM D FR C.B PIN101
FROM D FR C.B PIN102
FROM D FR C.B PIN103
TO PIN301
TO PIN351
CON301
CON351
FROM TAPE DECK

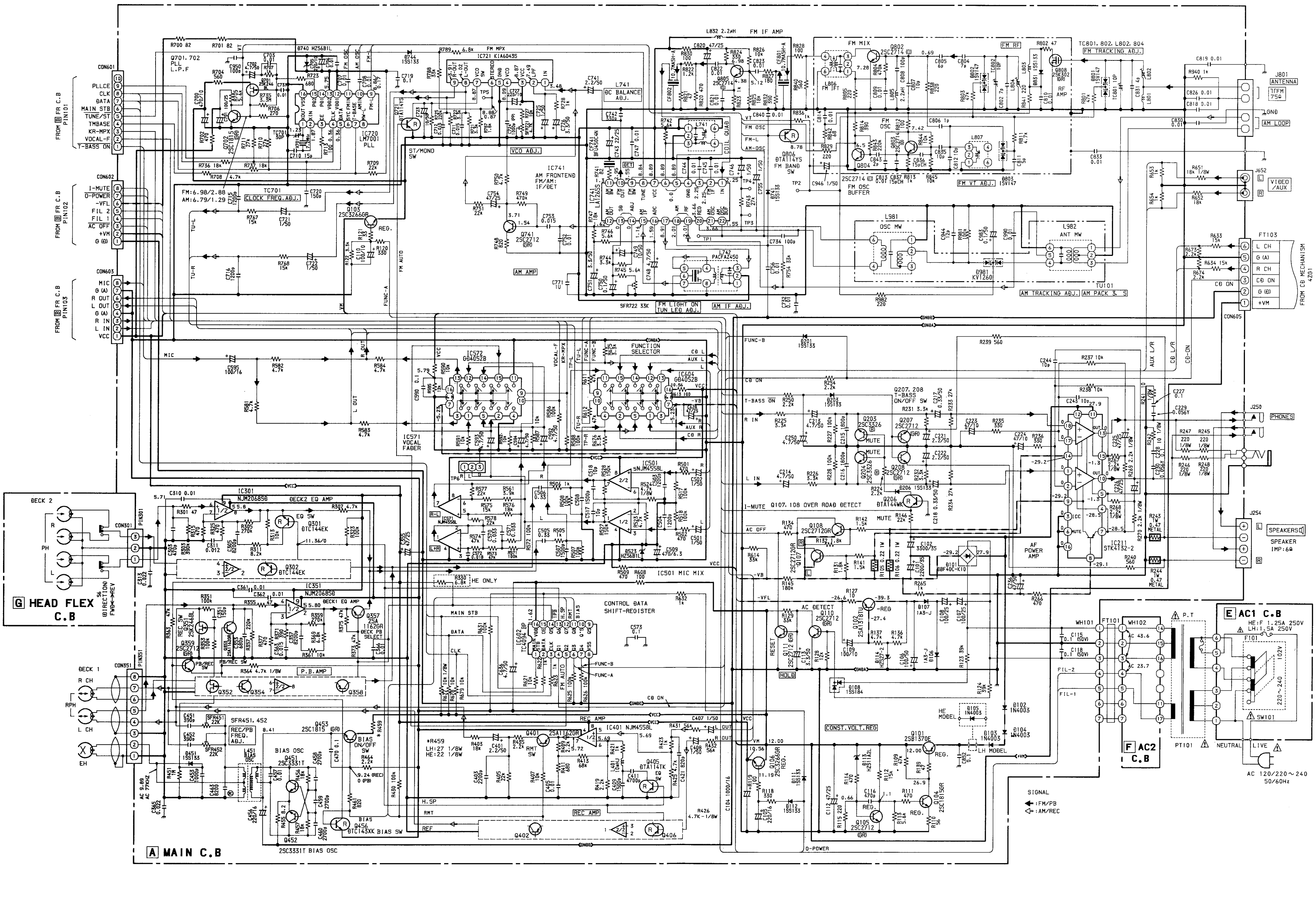
SCHEMATIC DIAGRAM – 3 (MAIN : HM)



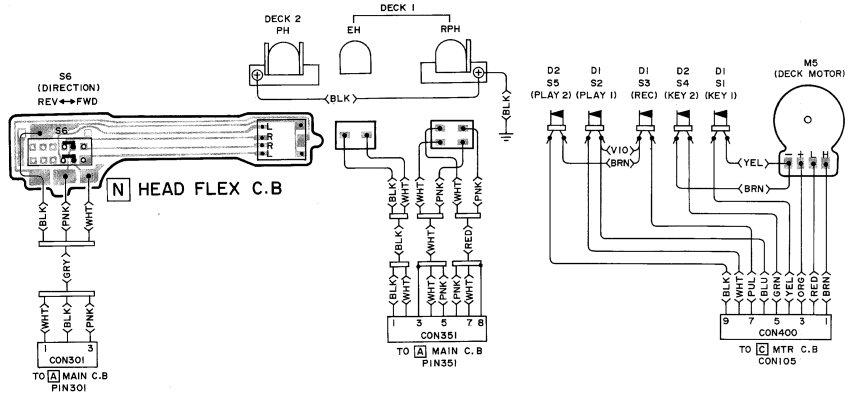
A MAIN C.B (HE,LH,U,C)



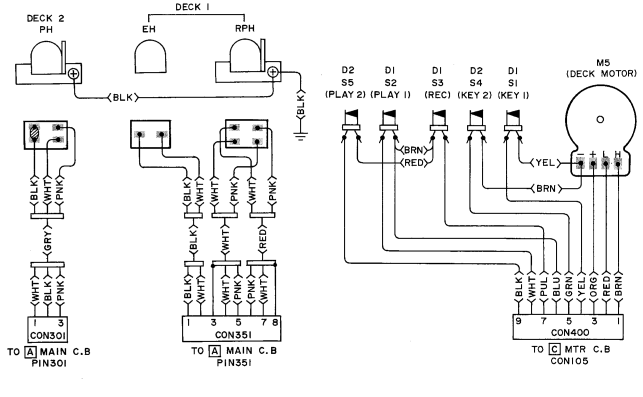
SCHEMATIC DIAGRAM – 4 (MAIN : HE, LH)



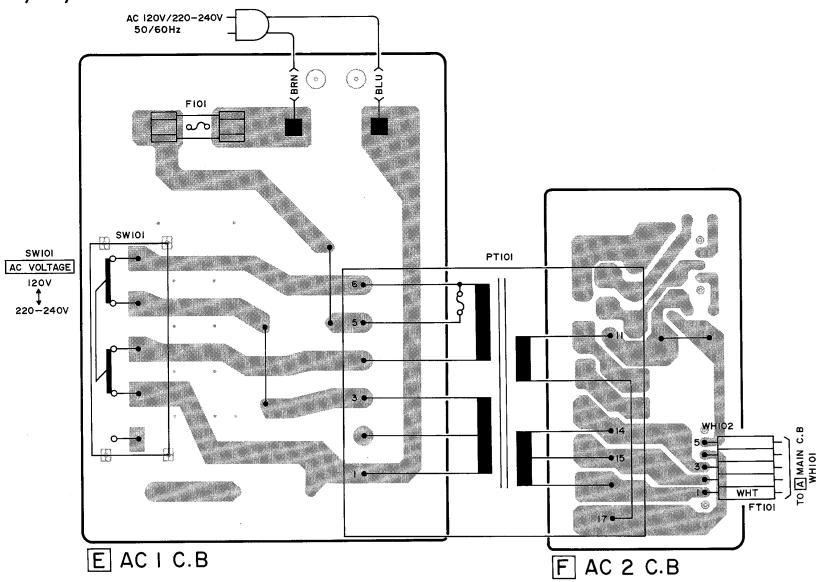
EXCEPT U,C



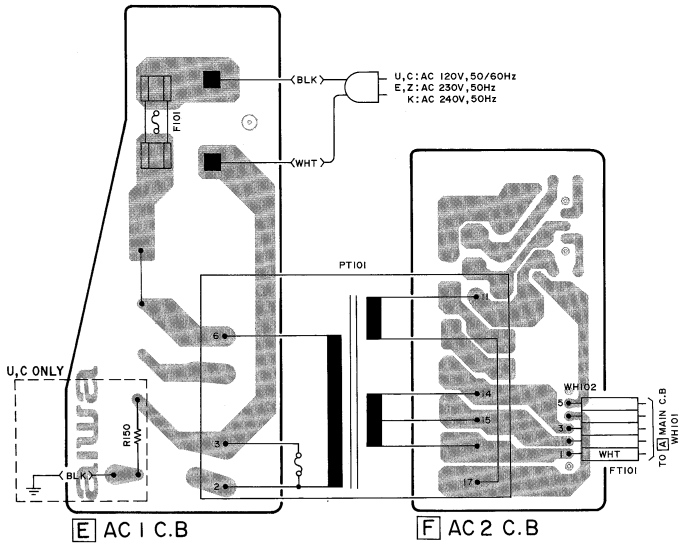
U,C ONLY



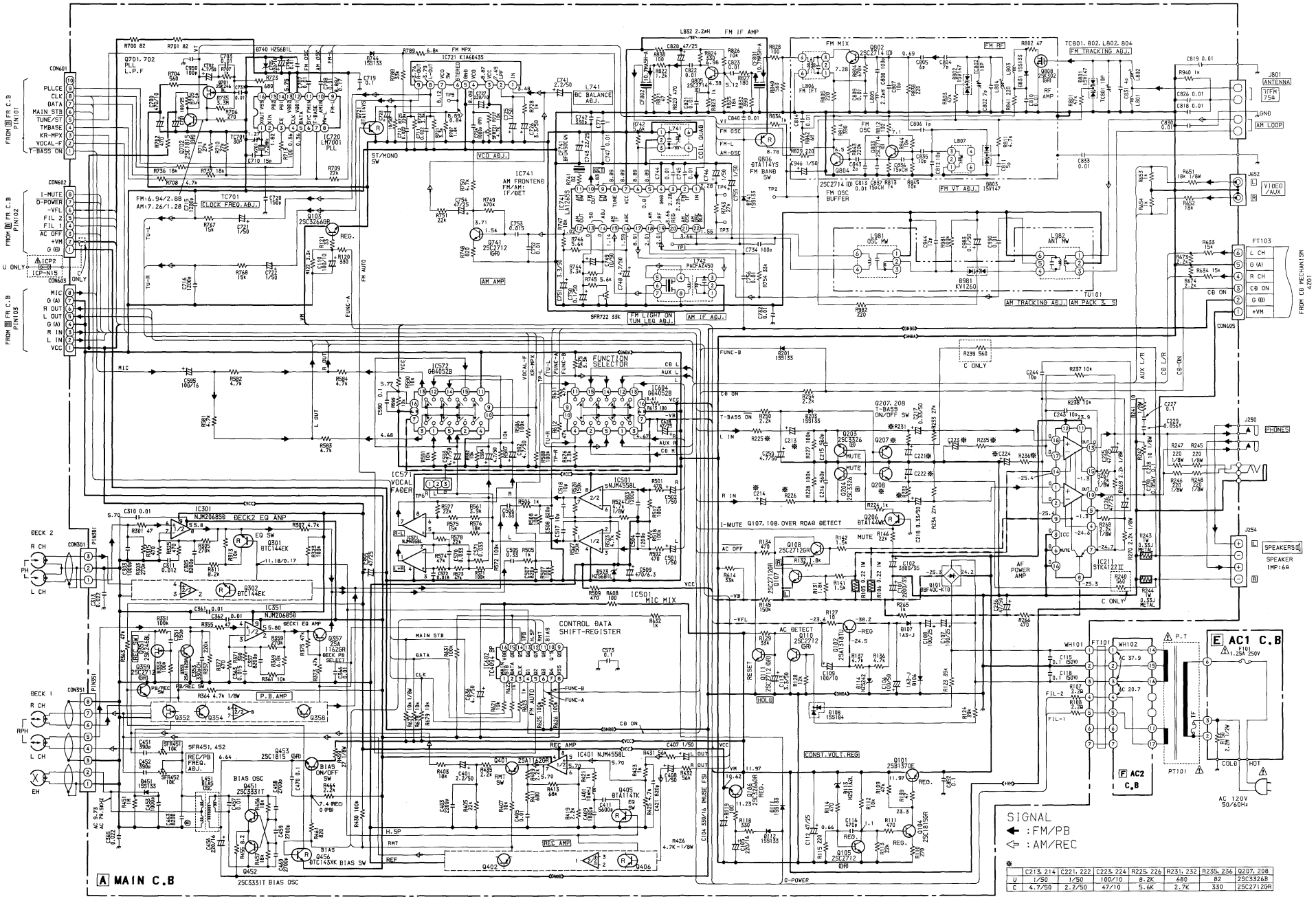
HE,HM,LH MODELS



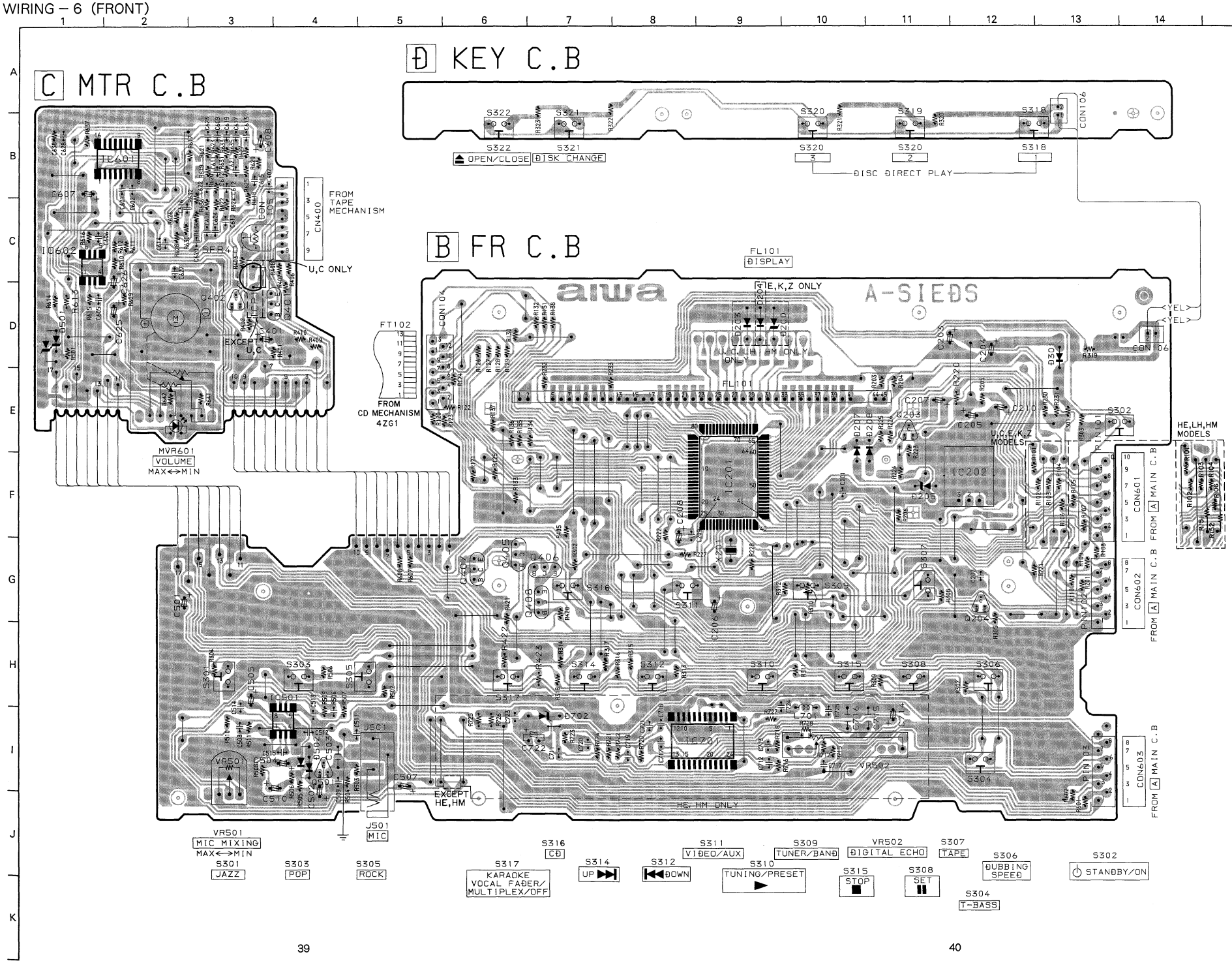
U,C,E,K,Z MODELS



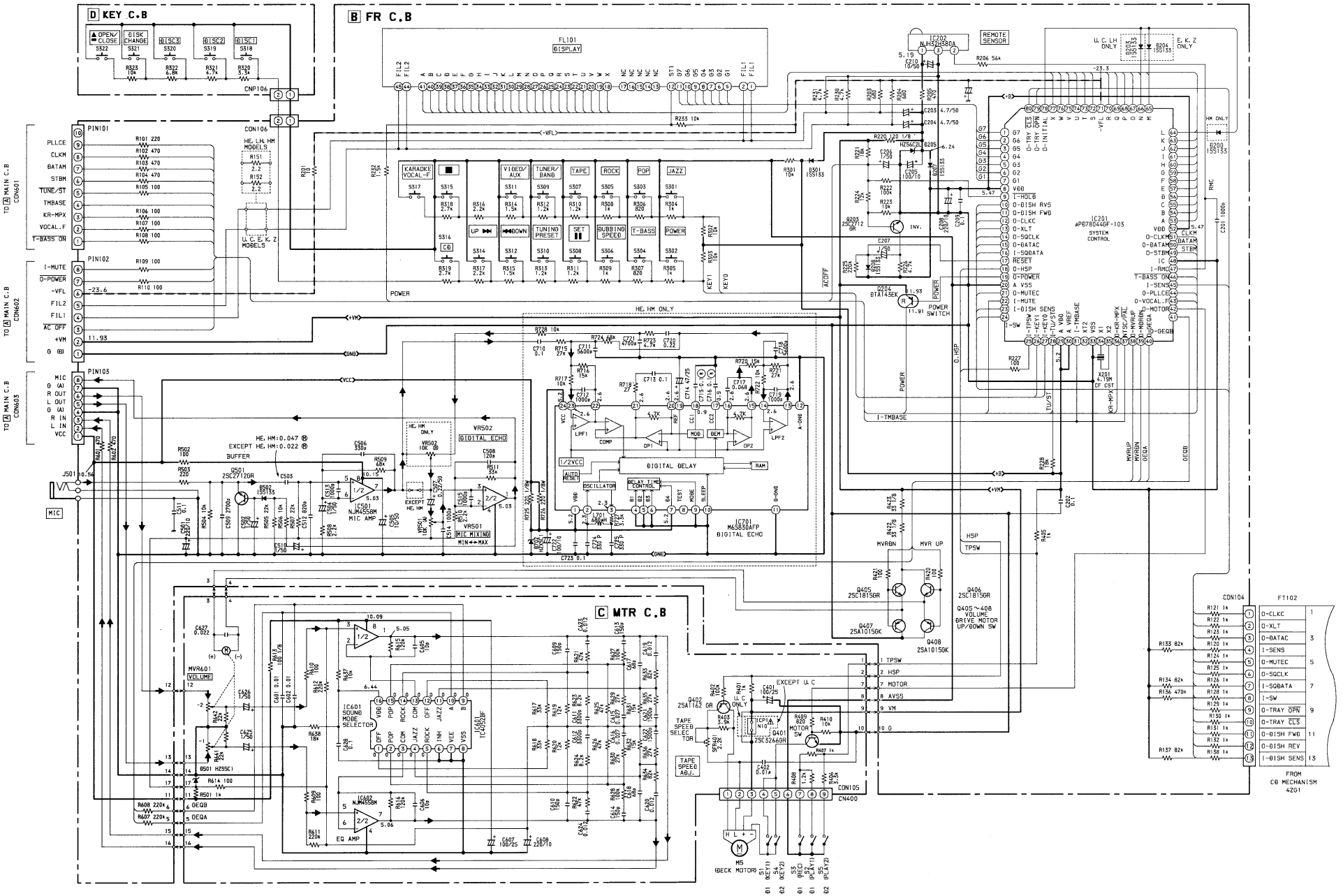
SCHEMATIC DIAGRAM – 5 (MAIN : U, C)



	C215, 214	C221, 222	C223, 224	R225, 226	R231, 232	R235, 236	Q207, 208
U	1/50	1/50	100/10	8.2K	680	82	2SC3326B
C	4.7/50	2.2/50	47/10	5.6K	2.7K	330	2SC2712GR


C MTR C.B
Đ KEY C.B
B FR C.B
aiwa
A-SIEĐS
FROM TAPE MECHANISM
CN400
U,C ONLY
EXCEPT U,C
FROM CD MECHANISM 4ZG1
FT102
MVR601
VOLUME
MAX↔MIN
FL101
ĐISPLAY
E,K,Z ONLY
U,C,E,K,Z ONLY
HM ONLY
HE,LH,HM MODELS
U,C,E,K,Z MODELS
FROM A MAIN C.B
CON106
CON104
CON601
CON602
CON603
S322
S321
S320
S319
S318
OPEN/CLOSE
ĐISK CHANGE
ĐISC ĐIRECT PLAY
VR501
MIC MIXING
MAX↔MIN
J501
MIC
S301
JAZZ
S303
POP
S305
ROCK
S316
CĐ
S317
KARAOKE VOCAL FAĐER/ MULTIPLEX/OFF
S314
UP
S312
ĐOWN
S311
VIĐEO/AUX
S310
TUNING/PRESET
S309
TUNER/BANĐ
VR502
ĐIGITAL ECHO
S307
TAPE
S315
STOP
S308
SET
S306
ĐUBBING SPEEĐ
S304
T-BASS
S302
STANĐBY/ON
EXCEPT HE,HM
HE,HM ONLY

SCHEMATIC DIAGRAM – 6 (FRONT)



IC DESCRIPTION

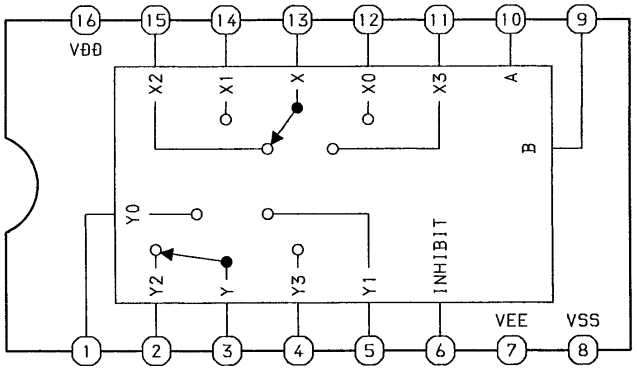
IC, μPD78044GF – 103

Pin No.	Pin Name	I/O	Description
1~7	G7~G1	O	FL display digit output
8	VDD	—	Connected to +5.5V
9	$\overline{\text{I-HOLD}}$	I	When AC main power is turned off, input goes L which puts processor into HOLD mode. (Clock is stopped and memory is backed up.)
10	O-DISH RVS	O	Turn-table reverse direction output
11	O-DISH FWD	O	Turn-table forward direction output
12	O-CLK C	O	CD control output
13	O-XLT	O	CD control output
14	O-SQCLK	O	CD control output
15	O-DATA C	O	CD control output (serial data)
16	I-SQDATA	I	CD control input
17	$\overline{\text{RESET}}$	—	Reset input
18	O-HSP	O	Deck motor speed control. Double speed high when "H" (12V) is output.
19	$\overline{\text{O-POWER}}$	O	Power ON/OFF control. Power is turned OFF when "H" (12V) is output.
20	A VSS	—	Connected to GND
21	O-MUTE C	O	CD muting signal
22	I-MUTE	I	Muting signal input
23	I-DISH SENS	I	CD turn-table signal
24	I-SW	I	CD tray OPEN/CLOSE, and mechanism UP/DOWN signal input
25	I-TPSW	I	Deck PLAY, REC mechanism signal
26	I-KEY1	I	Key data input 1
27	I-KEY0	I	Key data input 0
28	I-TU/ST	I	Signal input during tuner reception and stereo reception
29	A VDD	—	Connected to +5V
30	A VREF	—	Connected to +5V
31	I-TMBASE	I	Dynamic reference clock (50/60 Hz)
32	XT2	—	Sub-clock connector (not used)
33	VSS	—	Connected to GND
34	X1	—	4.19 MHz oscillator circuit
35	X2	—	4.19 MHz oscillator circuit
36	O-KR-MPX	O	KARAOKE multiplex ON/OFF control. Multiplex is ON when "H" (+5V) is input.
37	NTSC/$\overline{\text{PAL}}$	O	CD graphic control signal. NTSC mode when "H" (+5V) is input.
38	O-MVRUP	O	Motor UP control signal to manual volume control
39	O-MVRDN	O	Motor DOWN control signal to manual volume control
40	O-GEQA	O	Graphic equalizer control signal
41	O-GEQB	O	Graphic equalizer control signal
42	O-MOTOR	O	Deck motor ON/OFF control output. (ON state in 4 seconds after Power ON.)
43	O-VOCAL. F	O	Vocal fader ON/OFF control output. Vocal fader ON when "H" (+5V) is input.
44	O-PLLCE	O	Chip enable output to tuner PLL IC
45	I-SENS	I	CD sensor input signal
46	$\overline{\text{T-BASS ON}}$	O	T-BASS ON/OFF control T-BASS is ON when "L" is output.

Pin No.	Pin Name	I/O	Description
47	I-RMC	I	Remote control signalinput
48	IC	—	Connected to GND
49	O-STBM	O	Strobe signal of the shift register IC602 on the MAIN board
50	O-DATAM	O	Serial data of the PLL IC720 and IC602 on the MAIN board
51	O-CLKM	O	Serial clock of the PLL IC720 and IC602 on the MAIN board
52	VDD	—	Connected to +5V
53～66	A～N	O	FL display segment output
67、68	O、P	I/O	FL display segment output. Initializing scan
69、70	Q、R	O	FL display segment output
71	-VFL	—	Power supply for FL display (-23V)
72～77	S～X	O	FL display segment output
78	O-INITIAL	O	processor initializing control
79	O-TRY $\overline{\text{OPN}}$	O	CD tray OPEN control. OPEN when "L" is output
80	O-TRY $\overline{\text{CLS}}$	O	CD tray CLOSE control CLOSE when "L" is output

IC BLOCK DIAGRAM

IC, TC4052BF

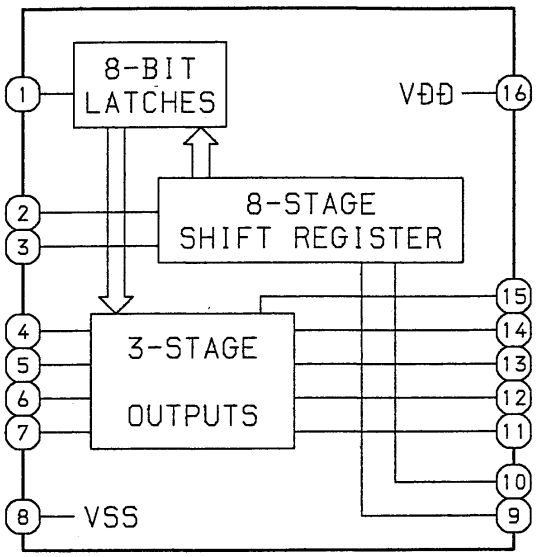


TRUTH TABLE

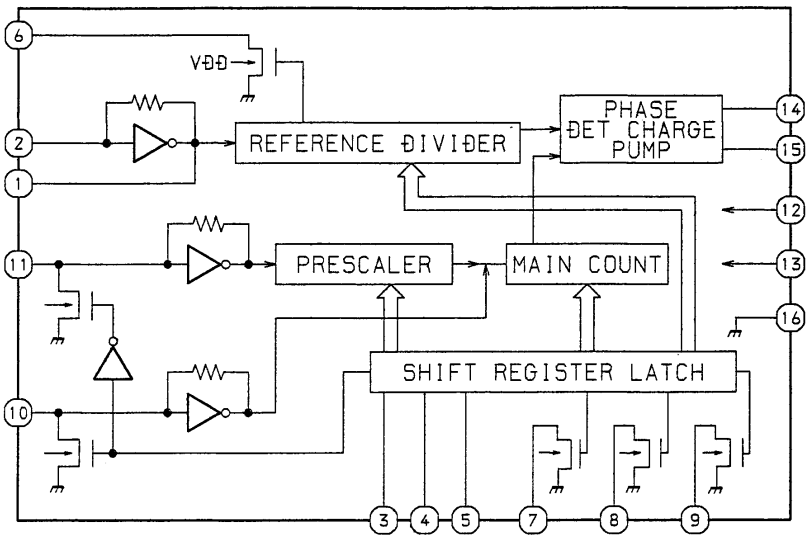
CONTROL INPUTS			ON SWITCH	
INHIBIT	B	A		
L	L	L	Y0	X0
L	L	H	Y1	X1
L	H	L	Y2	X2
L	H	H	Y3	X3
H	X	X	—	—

L:LOW LEVEL
H:HIGH LEVEL
H:IRRELEVANT

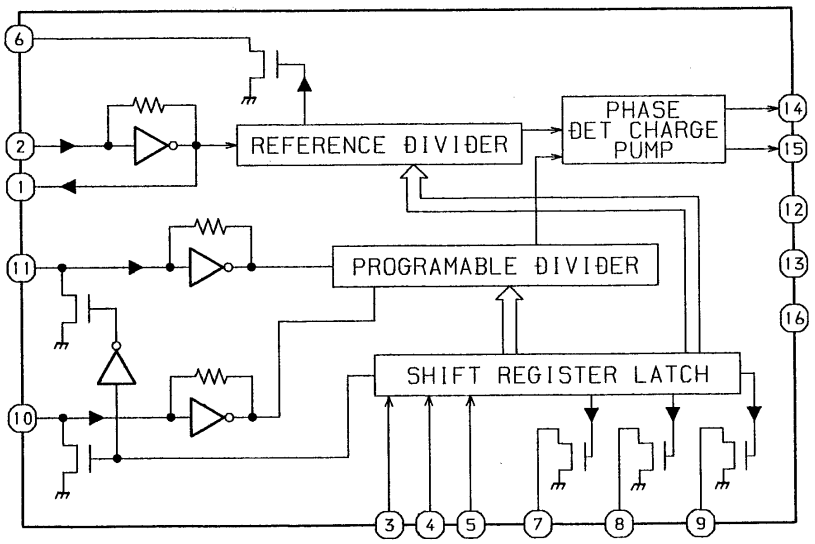
IC, TC4094BP



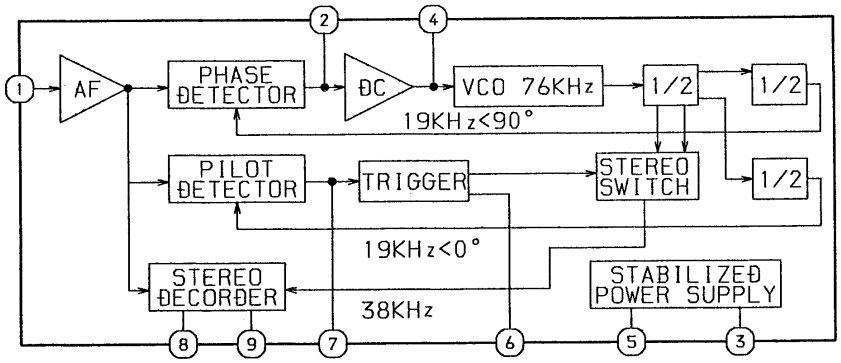
IC, BU2611



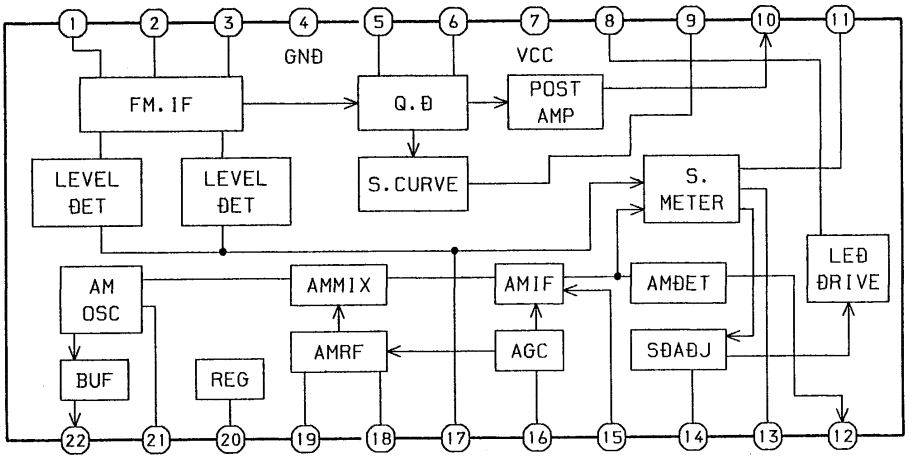
IC, LM7001



IC, KIA6043S

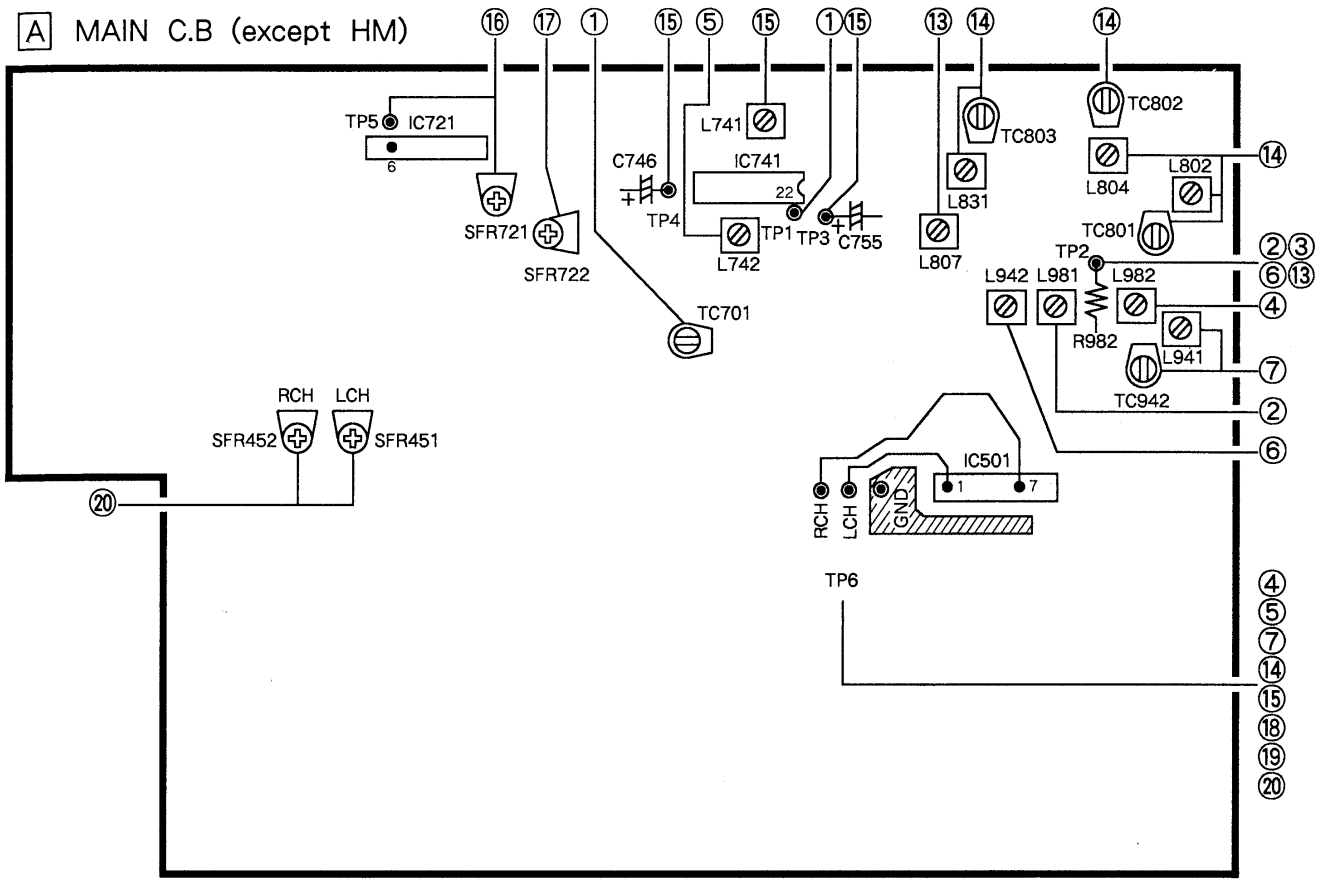


IC, LA1265S

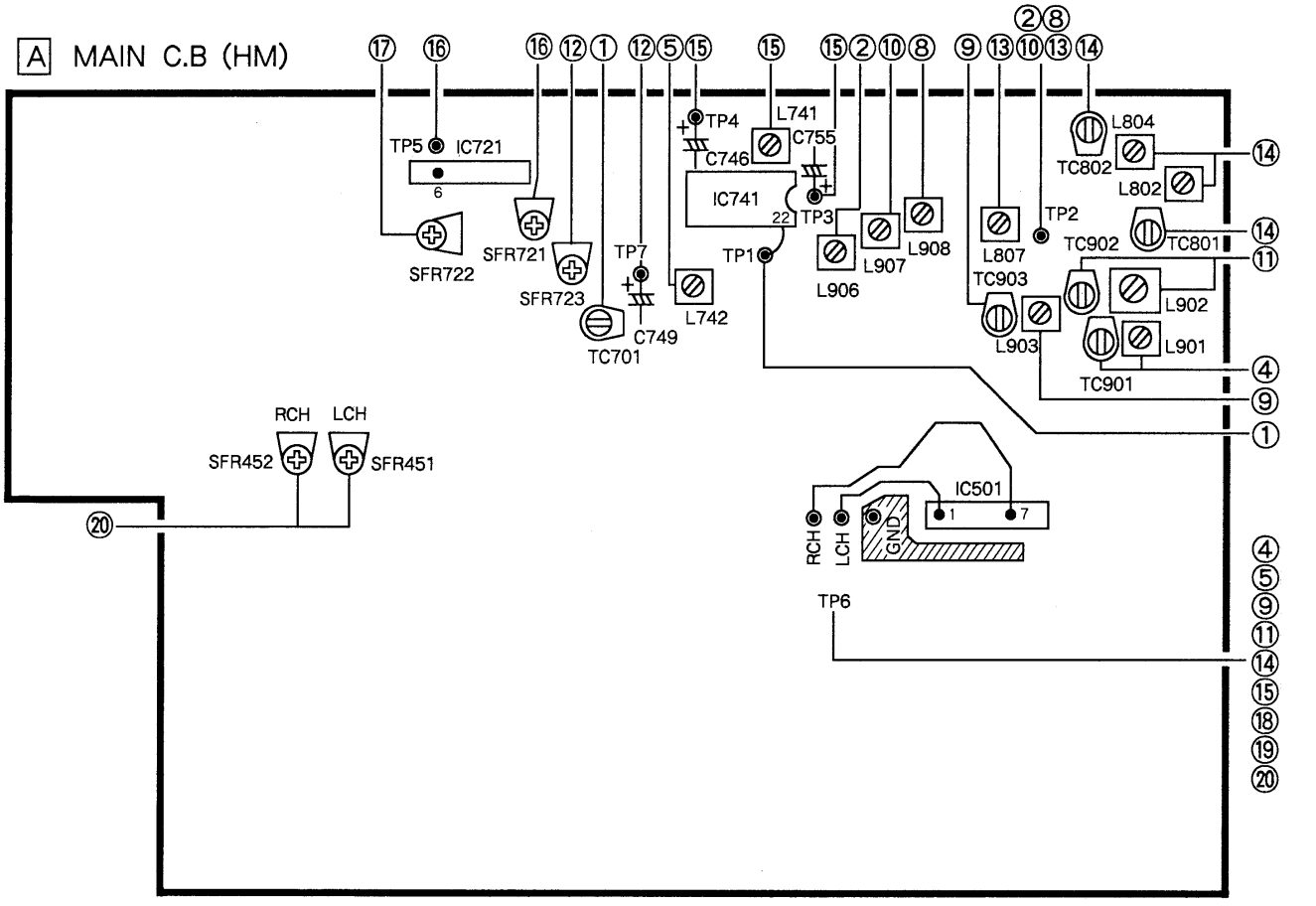


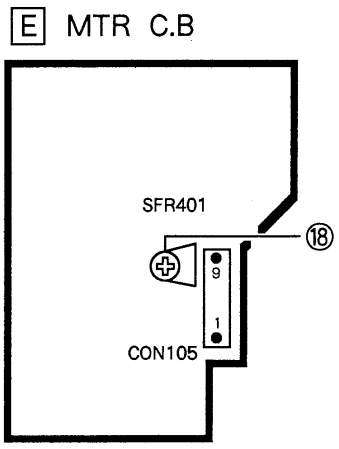
ELECTRICAL ADJUSTMENT (TUNER/TAPE SECTION)

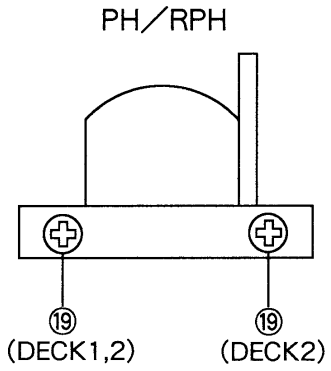
A MAIN C.B (except HM)



A MAIN C.B (HM)







TUNER SECTION

1. Clock Frequency Adjustment

   Settings : • Test point : TP1 (CLK IC741 pin22)
   • Adjustment location : TC701

   Method : Set to AM (MW) 1602kHz (HE, E, K, Z), 1710kHz (U, C, LH, HM) and adjust so that the test point becomes 2052kHz ± 0.01kHz (HE, E, K, Z), 2160kHz ± 0.01kHz (U, C, LH, HM).

2. AM (MW) VT Adjustment (Except U, C, LH)

   Settings : • Test point : TP2 (VT)
   • Adjustment location : L981 (HE, E, K, Z)
   : L906 (HM)

   Method : Set to AM 1602kHz (HE, E, K, Z),1710kHz (HM) adjust so that the test point becomes 6.8V ± 1.0V (HE, E, K, Z), 9.0V ± 0.05V (HM).

3. AM (MW) VT Check (U, C, LH)

   Settings : • Test point : TP2 (VT)

   Method : Set to AM (MW) 1710kHz and check that the test point is 7.0V ± 1.0V.

4. AM (MW) Tracking Adjustment

   < Except HM >

   Settings : • Test point : TP6
   • Adjustment location : L982

   Method : Set to AM (MW) 999kHz (HE, E, K, Z), 1000kHz (U, C, LH) and adjust L982 so that the test point output becomes 53 ± 6dB.

   < HM >

   Settings : • Test point : TP6
   • Adjustment location :
   L901 ····· 600kHz
   TC901 ····· 1400kHz

   Method : Set up TC901 to center before adjustment. The level at 600kHz is adjusted to MAX by L901. Then the level at 1400kHz is done by TC901.

5. AM (MW) IF Adjustment

   Settings : • Test point : TP6
   L742 ····· 450kHz

6. LW VT Adjustment

   Settings : • Test point : TP2
   • Adjustment location : L942

   Method : Set to LW 144kHz adjust L942 so that the test point becomes 1.50V ± 0.05V.

7. LW Tracking Adjustment

   Settings : • Test point : TP6
   • Adjustment location :
   L941 ····· 144kHz
   TC942 ····· 290kHz

   Method : Set up TC942 to center before adjustment. The level at 144kHz is adjusted to MAX by L941. Then the level at 290kHz is done by TC942.

8. SW-2 VT Adjustment (HM)

Settings : • Test point : TP2 (VT)
• Adjustment location : L908

Method : Set to SW-2 21.85MHz adjust L908 so that the test point becomes 7.5V ± 0.05V.

9. SW-2 Tracking Adjustment (HM)

Settings : • Test point : TP6
• Adjustment location :
L903 ····· 9.5MHz
TC903 ····· 21.85MHz

Method : Set up TC903 to center before adjustment. The level at 9.5MHz is adjusted to MAX by L903 .Then the level at 21.85MHz is done by TC903.

10. SW-1 VT Adjustmant (HM)

Settings : • Test point : TP2 (VT)
• Adjustment location : L907

Method : Set to SW-1 7.3MHz and adjust L907 so that the test point becomes 8.0V ± 0.05V.

11. SW-1 Tracking Adjustment (HM)

Settings : • Test point : TP6
• Adjustment location :
L902 ····· 3.2MHz
TC902 ····· 7.3MHz

Method : Set up TC902 to center before adjustment. The level at 3.2MHz is adjusted to MAX by L902. Then the level at 7.3MHz is done by TC902.

12. AGC Adjustment (HM)

Settings : • Test point : TP7 (AGC)
• Adjustment location : SFR723
• Input signal : 21.85MHz 60dB

Method : Set to SW-2 21.85MHz adjust SFR723 so that the test point becomes 1.6V ± 0.05V.

13. FM VT Adjustment

Settings : • Test point : TP2 (VT)
• Adjustment location : L807

Method : Set to FM 87.5MHz and adjust L807 so that the test point becomes 2.90V ± 0.05V (Except HM), 1.7V ± 0.05V (HM).

14. FM Tracking Adjustment

Settings : • Test point : TP6
TC801, TC802 (& TC803 for Z) ····· 108MHz
L802, L804 (& L831 for Z) ····· 87.5MHz

15. DC Balance/MONO Distortion Adjustment

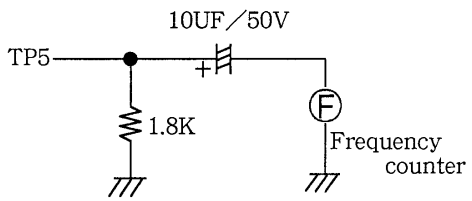
Settings : • Test point : TP3, TP4 (DC balance)
TP6 (Distortion)
• Adjustment location : L741
• Input level : 54dB

Method : Set to FM 98.0MHz and adjust L741 so that the voltage between TP3 and TP4 becomes 0V ± 0.02V.
Next check that the distortion becomes less than 0.9 %.

16. MPX VCO Adjustment

Settings : • Test point : TP5 (IC721 pin 6)
• SSG : modulation OFF
• Adjustment location : SFR721
• Input level : 54dB

Method : Connect a capacitor and a resistor as below. Set to FM 98.0MHz and adjust SFR721 so that the frequency at test point becomes 38kHz ± 0.05kHz.



17. Light on Tuning LED Adjustment

Settings : • Adjustment location : SFR722
• Input level : 16dB

Method : Set to FM 98.0MHz and adjust TUNING LED to light on by SFR722. After that LED goes out by 2dB down.

TAPE SECTION

18. Tape Speed Adjustment

Settings : • Test tape : TTA-100
• Test point : TP6
• Adjustment location : SFR401

Method : Play back the test tape, adjust SFR401 for 3000Hz ± 10Hz.

19. Head Azimuth Adjustment (DECK1, DECK2)

Settings : • Test tape : TTA-310
• Test point : TP6
• Adjustment location : Head azimuth adjustment screw

Method : Play back the 10kHz signal of the test tape and adjust so that the output becomes maximum.

20. REC/PB Frequency Response Adjustment (DECK1)

Settings : • Test tape : TTA-601
• Test point : TP6
• Input signal : 1kHz/10kHz (AUX-28dB)
• Adjustment location : SFR451 (Lch)
SFR452 (Rch)

Method : Record and play back the 1kHz and 10kHz signals and adjust so that the TP6 level of the 10kHz signal is 0dB ± 0.5dB with respect to that of the 1kHz signal.

PRACTICAL SERVICE FIGURE

TUNER SECTION

< FM SECTION >

IHF Sensitivity (EXCEPT Z) :	7dB ± 6dB (87.5MHz)
(THD 3%)	7dB ± 6dB (98.0MHz)
	7dB ± 6dB (108.0MHz)
(Z MODEL) :	2dB ± 6dB (87.5MHz)
	2dB ± 6dB (98.0MHz)
	2dB ± 6dB (108.0MHz)
S/N 50dB Quieting sensitivity :	32dB ± 5dB (87.5/98.0/108.0MHz)
Signal to noise ratio :	More than 72dB (98.0MHz)
Distortion :	Less than 0.9% (98.0MHz)
Stereo separation :	More than 25dB (98.0MHz)
Intermediate frequency :	10.7MHz

< AM (MW) SECTION > (HE, E, K, Z)

Sensitivity :	54dB + 8dB, − 6dB (603kHz)
(S/N 20dB)	53dB ± 6dB (999kHz)
	53dB ± 6dB (1404kHz)
Distortion :	Less than 1.5% (999kHz)
Intermediate frequency :	450kHz

< AM (MW) SECTION > (U, C, LH)

Sensitivity :	55dB ± 7dB (600kHz)
(S/N 20dB)	53dB ± 6dB (1000kHz)
	53dB ± 6dB (1400kHz)
Distortion :	Less than 1.5% (1000kHz)
Intermediate frequency :	450kHz

< SW1 SECTION >

Sensitivity :	31dB+5dB, -3dB (3.20MHz)
(S/N 20dB)	28dB+5dB, -3dB (5.00MHz)
	27dB+dB5, -3dB (7.30MHz)
Distortion :	Less than 3.0% (5.00MHz)
Intermediate frequency :	450kHz

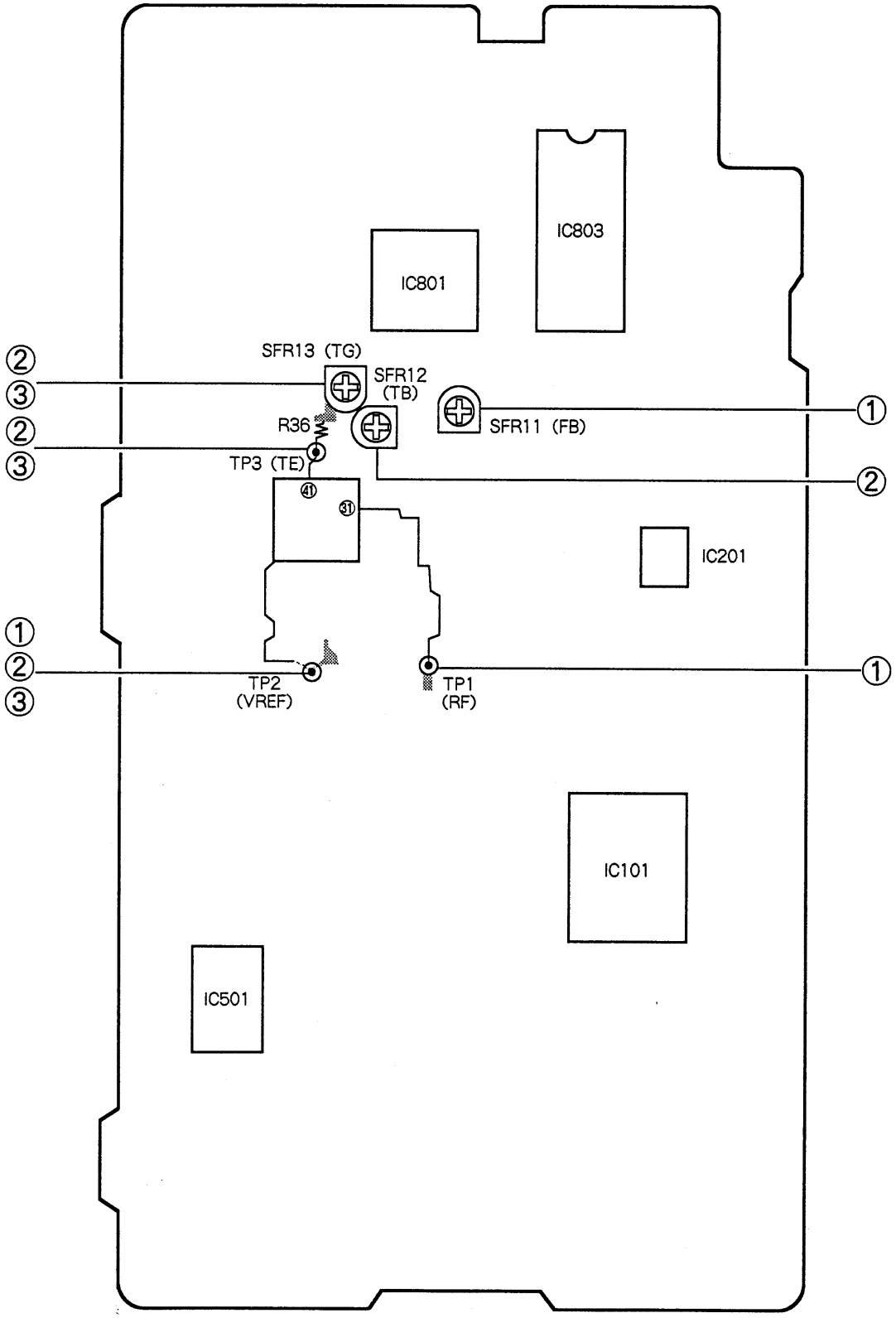
< SW2 SECTION >

Sensitivity :	45dB ± 5dB (9.50MHz)
(S/N 20dB)	40dB ± 5dB (15.00MHz)
	31dB ± 5dB (21.85MHz)
Distortion :	Less than 3.0% (15.00MHz)
Intermediate frequency :	450kHz

TAPE SECTION

Tape speed :	3000Hz ± 3.0%
Wow & flutter : (R.M.S)	Less than 0.4%
Take-up torque :	30~60g-cm (FWD, REV)
F.F torque :	55~140g-cm
Rew torque :	55~140g-cm
Back tension :	2~5g-cm
PB Output level :	3.0V ± 1.5dB (SP OUT)
REC/PB Output level :	2.0V ± 2.0dB (SP OUT)
Distortion (REC/PB) :	Less than 2% (NORM)
Noise level (PB) :	Less than 140mV (NORM, Vol MAX.)
Noise level (REC/PB) :	Less than 35mV (NORM, SP OUT, Vol 2V)
Crosstalk :	More than 55dB (1kHz, 0VU)
Erasing ratio :	More than 55dB (125Hz)
Channel separation :	More than 38dB (1kHz, 0VU)
REC bias frequency :	85kHz
Test tape :	NORMAL TTA − 601

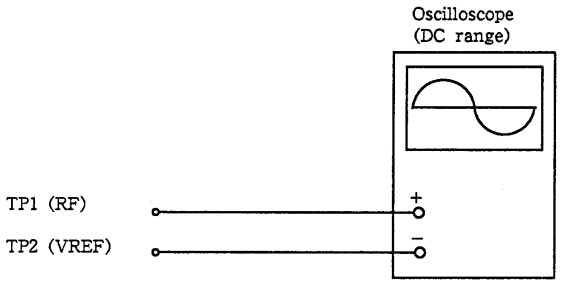
A 3CD C.B


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

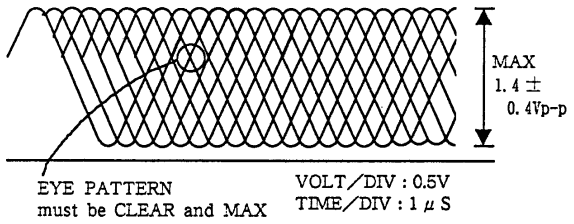
Note : Connect a probe (10 : 1) of the osilloscope or the frequency counter to a test point.

1. Focus Bias Adjustment

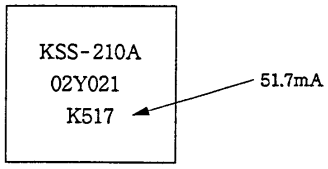
Make the focus bias adjustment when replacing and repairing the optical block.



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

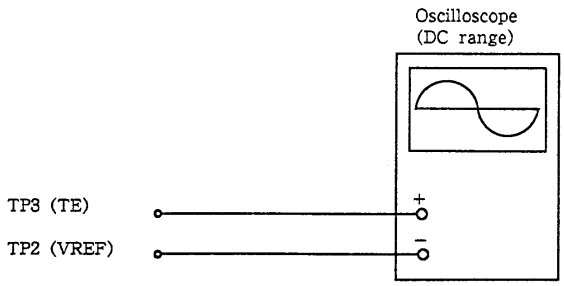


Note : The current of the laser signal can be checked with the voltages on both sides of R28 (10 Ω). Thedifference for the specified value shown on the lavel must be withim ± 6.0mA.

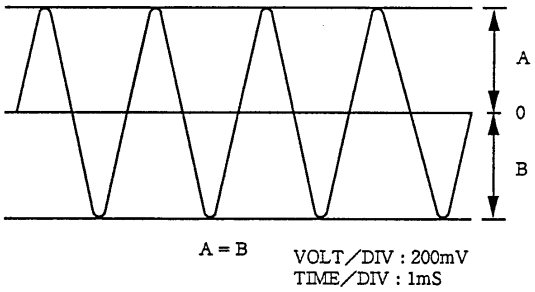


$$\text{Laser current } Iop = \frac{\text{Voltage across R28}}{10\ \Omega}$$

2. Tracking Balance Adjustment



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



3. Tracking Gain Adjustment

A servo analyzer is necessary in order to perform this adjustment exactly. However, this gain has margin, so even if it is slightly off, there is no problem. Therfore, do not perform this adjustment.

Focus/tracking gain determines the pick-up follow-up (vertical and horizontal) relative to mechanical noise and mechinical shock when 2-axis device operates. However, as these reciprocate, the adjustment is at the point where both are satisfied.

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

When gain adjustment is off, the symptoms below appear.

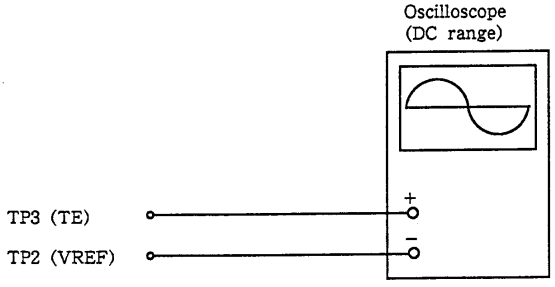
Symptoms \ Gain	(Focus)	Tracking
● The time until music starts becomes longer for STOP→▶PLAY or automatic selection (⏮ ⏭buttons pressed.) (Normally takes about 2 seconds.)	low	low or high
● Music does not start and disc continues to rotate for STOP→▶PLAY or automatic selection (⏮ ⏭buttons pressed.)	–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

The following is simple adjustment method.

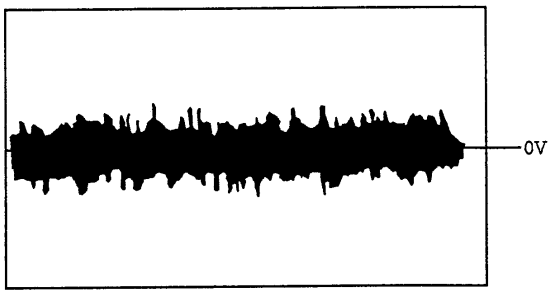
– Simple adjustment –

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

Procedure



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

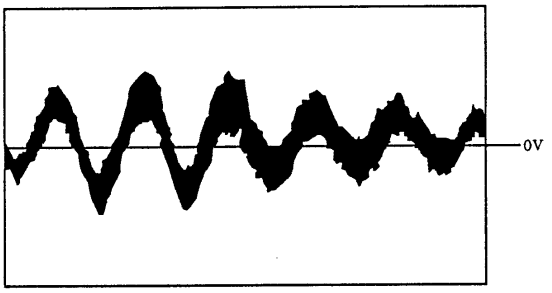


VOLT/DIV : 50mV
TIME/DIV : 1mS

- Incorrect example

Low tracking gain

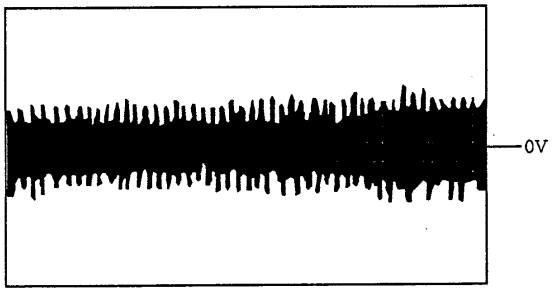
The fundamental wave appearsas compared with the waveform adjusted.



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

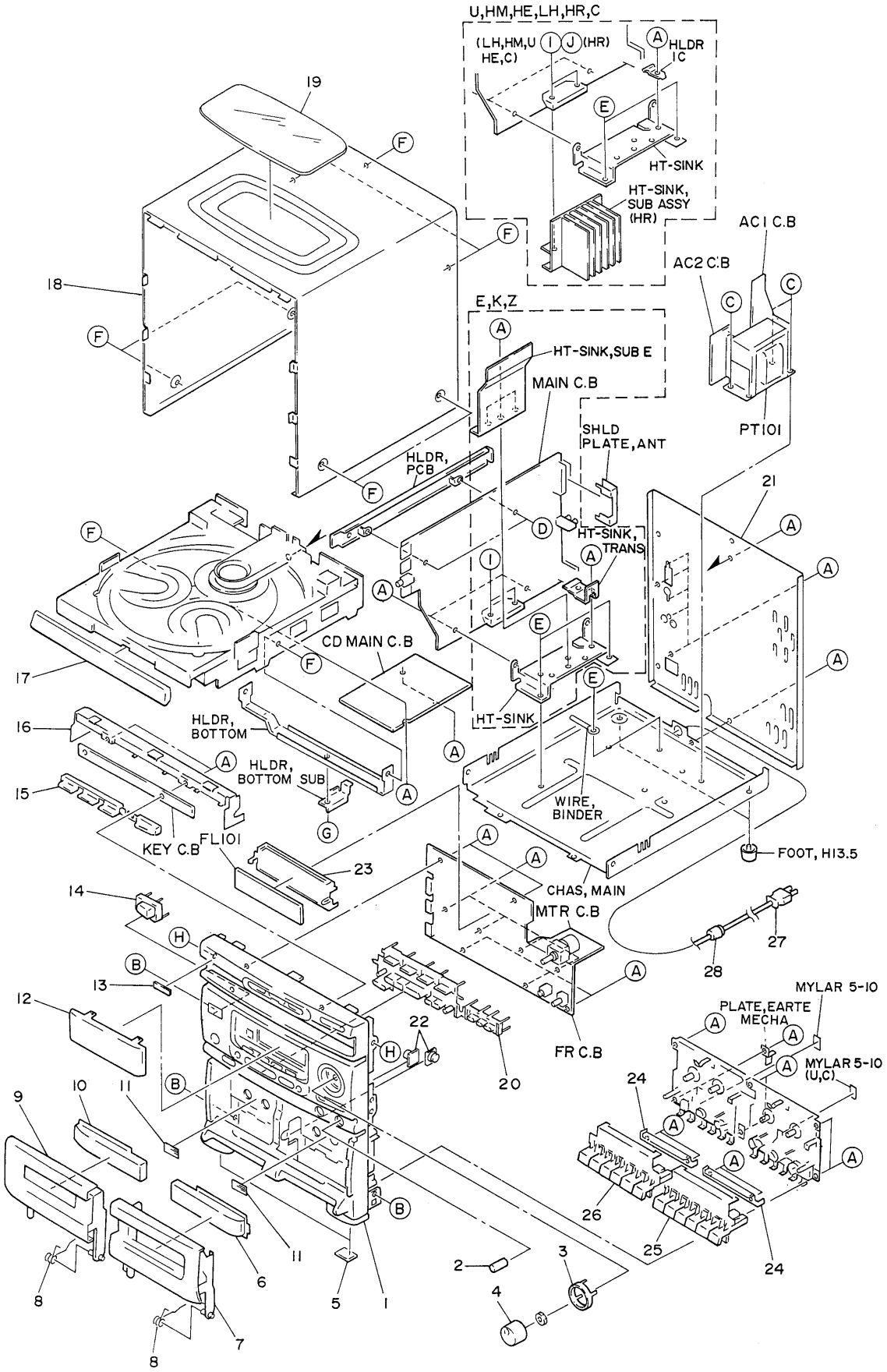
High tracking gain

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



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

MECHANICAL EXPLODED VIEW 1/1

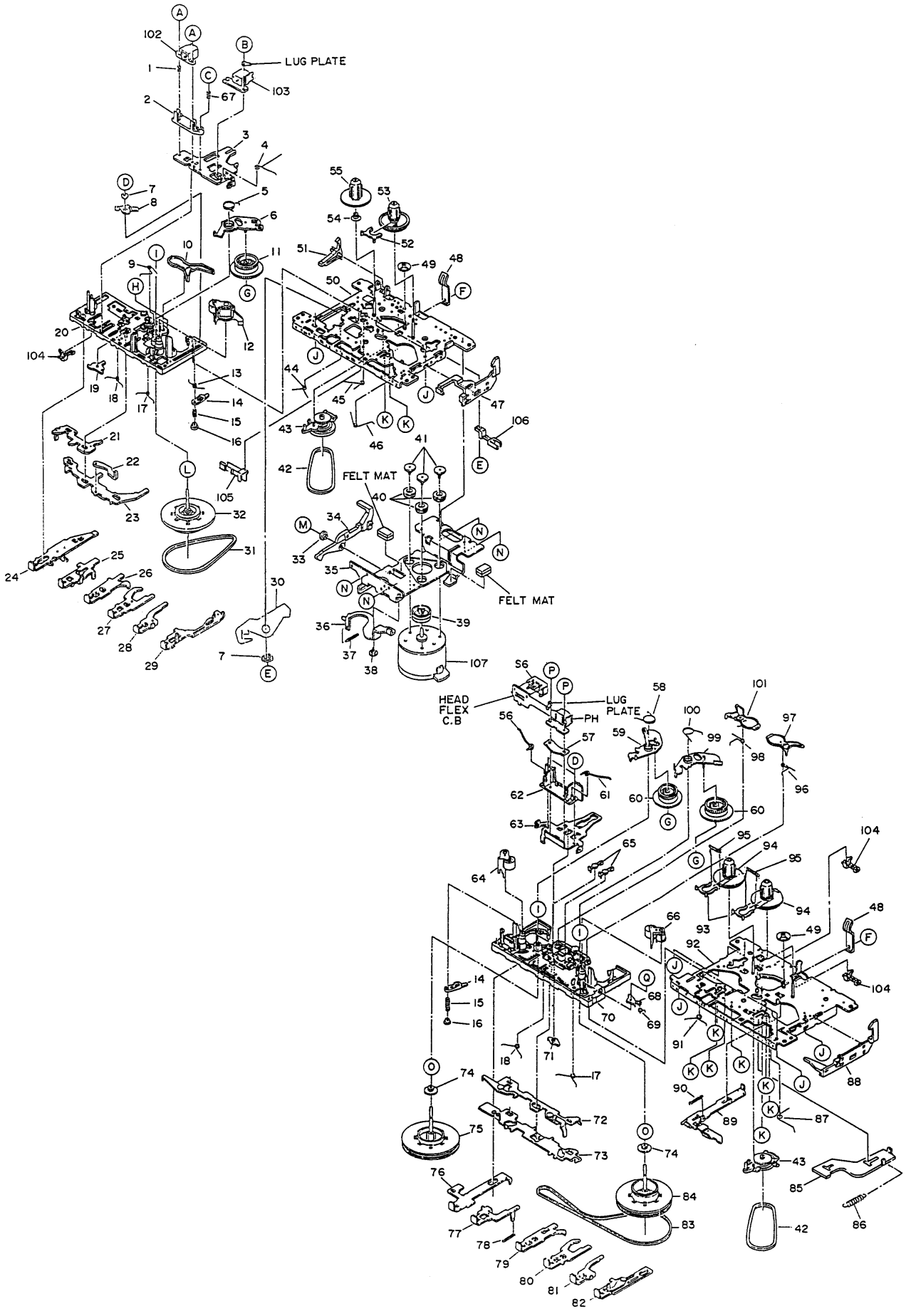


MECHANICAL PARTS LIST 1／1

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	82-NF7-022-019		CAB, FR E〈E, K, Z〉
1	82-NF7-023-019		CAB, FR U〈U, C〉
1	82-NF7-041-019		CAB, FR HM〈HM〉
1	82-NF7-001-019		CAB, FR HE〈HE, HR〉
1	82-NF7-024-019		CAB, FR LH〈LH〉
2	81-MX4-019-019		KNOB, MIC〈E, EE, K, Z〉
3	82-NF7-039-019		RING, VOL BLK〈E, K, Z, U, C〉
3	82-NF7-014-019		RING, VOL〈HM, HE, LH, HR〉
4	82-NF7-010-019		KNOB, VOL
5	80-VT1-202-019		FELT, 12. 5-15. 5-2
6	82-NF7-013-019		WINDOW, CASS 2
7	82-NF7-004-019		BOX, CASS 2
8	82-NF7-218-019		SPR-T, CASS
9	82-NF7-003-019		BOX, CASS 1
10	82-NF7-012-019		WINDOW, CASS 1
11	81-532-080-019		LBL, CASS-COMPT
12	82-NF7-011-019		WINDOW, DISPLAY
13	82-NE8-032-019		BADGE AIWA 27. 5
14	82-NF7-006-019		KEY, POWER
15	82-NF7-005-119		KEY, CD
16	82-NF5-203-219		HLDR, CD
17	82-NF7-018-019		PANEL, TRAY
18	82-NF5-072-118		CAB, STEEL G 3CD〈E, K, Z〉
18	82-NF5-064-119		CAB, STEEL 3CD〈U, HM, HE, LH, HR, C〉
19	82-NF5-061-019		WINDOW, TOP
20	82-NF7-007-019		KEY, FUN
21	82-NF7-026-019		PANEL, REAR〈E〉
21	82-NF7-027-019		PANEL, REAR〈K〉
21	82-NF7-028-019		PANEL, REAR〈Z〉
21	82-NF7-025-019		PANEL, REAR〈U〉
21	82-NF7-032-019		PANEL, REAR〈HM〉
21	82-NF7-002-019		PANEL, REAR〈HE〉
21	82-NF7-031-019		PANEL, REAR〈LH〉
21	82-NF7-030-019		PANEL, REAR〈HR〉
21	82-NF7-045-019		PANEL, REAR〈C〉
22	87-063-164-019		OIL-DMPR 80
23	82-NF7-210-019		GUIDE, FL
24	82-NF7-204-019		HLDR, KEY
25	82-NF7-009-019		KEY, CASS 2〈EXCEPT U, C〉
25	82-NF7-008-019		KEY, CASS 1〈U, C〉
26	82-NF7-019-019		KEY, CASS REC
⚠ 27	87-050-016-018		AC CORD ASSY, E〈E, Z〉
⚠ 27	87-050-029-018		AC CORD ASSY, K 3P〈K〉
⚠ 27	87-050-053-019		AC CORD ASSY, U-2〈U, C〉
⚠ 27	87-050-034-019		AC CORD ASSY, E〈HM, HE, HR〉
⚠ 27	87-034-749-019		AC CORD ASSY, H〈LH〉
28	87-085-185-010		BUSHING, AC CORD E〈EXCEPT U, LH, C〉
28	87-085-184-010		BUSHING, AC CORD D〈LH〉
28	87-085-189-010		BUSHING, AC CORD U〈U, C〉
A	87-067-703-019		BVT2+3-10 (W/O SLOT)
B	87-591-094-419		QIT+3-6 GOLD
C	87-078-019-019		S-SCREW, IT+4-6
D	87-067-633-019		BVT2+3-8 W/CONVEX
E	87-067-688-019		BVTT+3-6
F	87-067-641-019		UTT2+3-8 W/O SLOT BLK
G	87-067-716-019		BVTT+3-6 BLK
H	87-721-097-419		QT2+3-12 GLD
I	87-067-581-019		BVT2+3-15 W/O SLOT〈EXCEPT HR〉
J	87-067-698-019		BVT2+3-18 W/O SLOT〈HR〉

TAPE MECHANISM EXPLODED VIEW 1/1 (CX – SN340/SN345/N340)

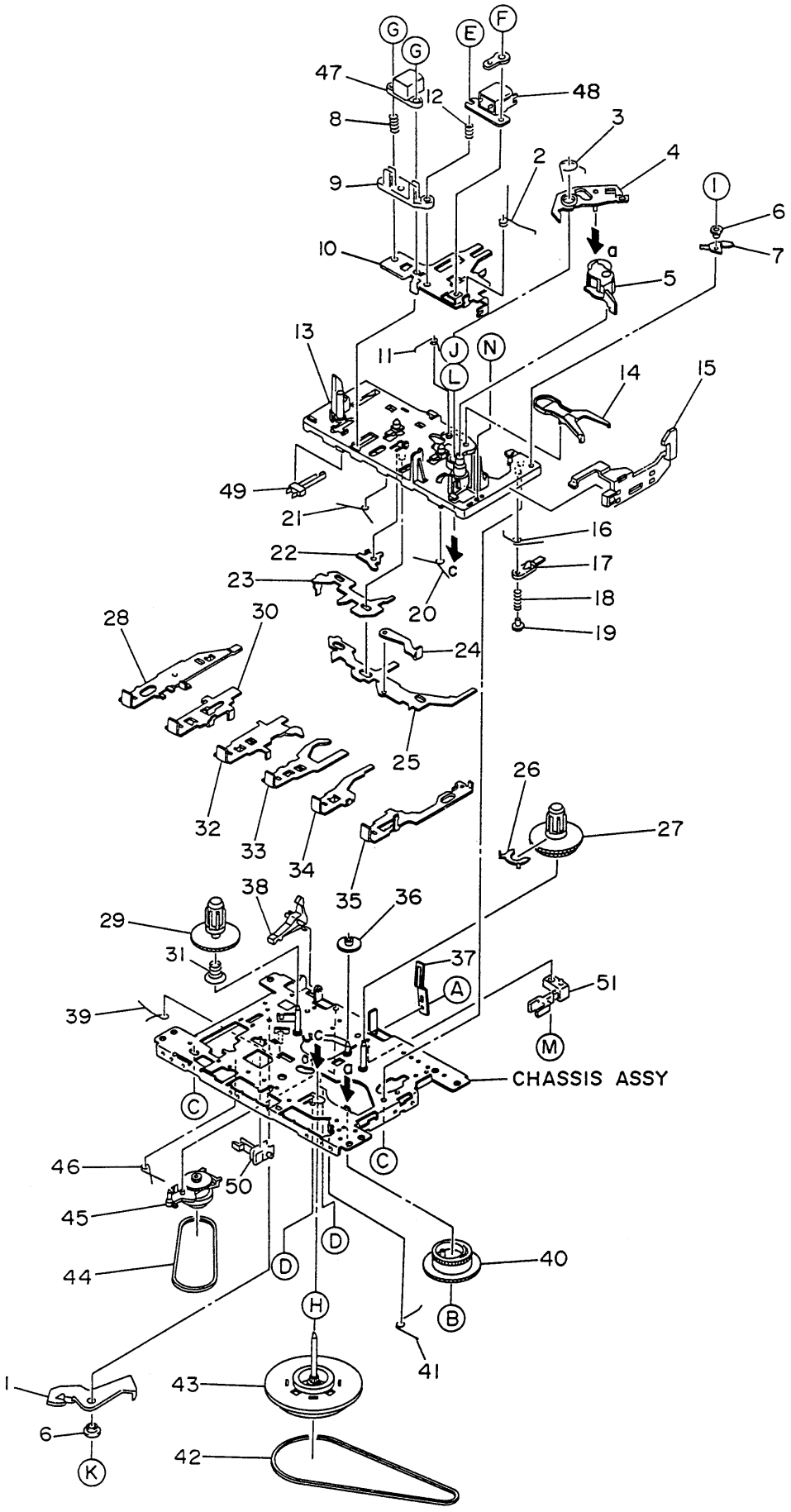


TAPE MECHANISM PARTS LIST 1／1 (CX－SN340／SN345／N340)

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	S1-821-030-080		EH, SPRING
2	S1-921-030-060		HEAD BASE
3	S1-921-030-140		HEAD PANEL
4	S1-921-030-090		PANEL P SPR
5	S1-921-260-050		GEAR PLATE SPRING
6	S1-921-265-020		GEAR PLATE ASSY
7	S1-921-140-370		P ARM COLLAR
8	S1-921-140-340		P ARM
9	S1-921-141-8A0		M CONTROL SPPRING
10	S1-921-260-4A0		SENSING LEVER
11	S1-921-260-020		CAM GEAR
12	S1-921-043-100		PINCH ROLLER ARM ASSY
13	S1-921-141-3A0		P CONTROL SPRING
14	S1-921-140-820		PAUSE LEVER(F)
15	S1-921-140-120		PAUSE LEVER SPRING
16	S1-921-140-110		PAUSE STOPPER
17	S1-921-140-150		BUTTON LEVER SPRING (B)
18	S1-921-140-140		BUTTON LEVER SPRING (A)
19	S1-921-140-200		PR STOPPER
20	S1-921-143-180		BASE ASSY
21	S1-921-140-090		SWITCH ACTUATOR
22	S1-921-140-640		E KICK LEVER
23	S1-921-140-080		PUSH BUTTON ACTUATOR
24	S1-921-140-220		REC BUTTON LEVER
25	S1-921-140-230		PLAY BUTTON LEVER
26	S1-921-140-240		REW BUTTON LEVER
27	S1-921-140-250		FF BUTTON LEVER
28	S1-921-140-260		STOP BUTTON LEVER
29	S1-921-140-610		PAUSE BUTTON LEVER
30	S1-921-020-010		REC ARM
31	S1-821-121-730		MAIN BELT
32	S1-921-093-050		FLYWHEEL ASSY
33	S1-821-120-650		COLLAR SCREW(B)
34	S1-921-120-250		P KICK LEVER(B)
35	S1-851-140-070		MOTOR BRACKET
36	S1-851-140-060		P KICK LEVER(A)
37	S1-851-140-040		SPR P KICK LEVER
38	S1-821-120-230		PK, COLLAR SCREW(A)
39	S1-959-120-010		MOTOR PULLEY
40	S1-821-120-660		MOTOR RUBBER
41	S1-851-140-180		MOTOR COLLAR SCREW
42	S1-821-070-110		RF, BELT
43	S1-959-073-010		RF CLUTCH ASSY
44	S1-921-140-170		P.S.LEVER SPRING
45	S1-921-140-210		RECBUTTON LEVER SPR
46	S1-921-140-160		E ACTUATOR SPRING
47	S1-921-130-030		EJECT SLIDE LEVER
48	S1-829-100-010		SPR, PACK
49	S1-821-100-700		FF GEAR
50	S1-921-145-010		CHASSIS ASSY
51	S1-821-100-690		REC SAFETY LEVER
52	S1-921-050-060		SENSOR
53	S1-921-053-030		TAKE UP REEL ASSY
54	S1-821-100-990		SPR, BACK TENSION
55	S1-921-055-040		SUPPLY REEL ASSY
56	S1-959-040-040		SPR, P. ROLLER ARM(R)
57	S1-851-040-050		PLATE HEAD SPR
58	S1-959-260-050		GEAR PLATE SPR(R)
59	S1-959-265-020		GEAR PLATE(R)ASSY
60	S1-959-260-030		CAM GEAR
61	S1-959-040-020		SPR, P. ROLLER ARM(F)
62	S1-959-030-030		HEAD BASE
63	S1-959-030-010		HEAD PANEL
64	S1-959-043-040		PINCH ROLLER ARM(R)ASSY
65	S1-959-260-080		M CONTROL ARM
66	S1-959-043-030		RINCH ROLLER ARM(F)ASSY
67	S1-821-030-070		AZIMUTH SPRING
68	S1-959-140-090		ROTARY ARM
69	S1-959-140-270		ROTARY SPRING
70	S1-959-143-010		BASE ASSY
71	S1-959-140-230		PR STOPPER
72	S1-959-145-010		ACXTUATOR ASSY
73	S1-959-140-260		SLIDE PLATE
74	S1-921-090-100		FL GEAR
75	S1-959-093-040		FLYWHEEL(R)ASSY
76	S1-959-140-170		MODE BUTTON LEVER(S)
77	S1-959-140-160		PLAY BUTTON LEVER(S)
78	S1-959-030-020		SPR, PLATE
79	S1-959-140-150		FF BUTTON LEVER(RS)
80	S1-959-140-140		FF BUTTON LEVER(FS)
81	S1-959-140-130		STOP BUTTON LEVER(S)
82	S1-959-143-030		PROG BUTTON LEVER(S)ASY
83	S1-851-140-170		MAIN BELT
84	S1-959-093-0S0		FLYWHEEL(F)ASSY
85	S1-959-150-020		MUTING PLATE SP
86	S1-959-150-010		MUTING PLATE
87	S1-959-140-200		SPR, EV ACTUATOR
88	S1-959-130-020		EJECT SLIDE LEVER(S)
89	S1-959-010-020		MAIN PLATE
90	S1-959-010-030		SPR, MAIN PLATE
91	S1-959-140-220		SPR, PM BUTTON LEVER
92	S1-959-015-010		CHASSIS ASSY
93	S1-959-050-010		SENSOR
94	S1-921-053-090		TAKE UP REEL ASSY
95	S1-959-050-040		SPRING
96	S1-959-260-090		M CONTROL SPR(F)
97	S1-959-260-060		SENSING LEVER(F)
98	S1-959-260-010		M CONTROL SPR(R)
99	S1-959-265-010		GEAR PLATE(F)ASSY
100	S1-959-260-040		GEAR PLATE SPR(F)
101	S1-959-260-070		SENSING LEVER(R)
102	S6-202-140-190		E HEAD LE15B-C1
103	S6-201-010-750		R.P. HEAD RP-7442BS-0951
104	S6-401-011-490		LEAF SW MSW-1541T
105	S6-401-010-380		LEAF SWITCH MSW-1275
106	S6-401-011-610		LEAF SW MSW-17820-MVE1
107	S6-002-030-290		MOTOR EG-530YD-2BH
A	S9-P17-205-710		SCREW, M2-7.5
B	S9-B01-200-310		SCREW, +2-3
C	S9-F08-200-710		SCREW, M2-7
D	S9-C04-202-530		S-SCREW, TAP 2-2.5
E	S9-P04-200-500		SCREW, TAP M2-5
F	S9-P04-200-310		SCREW, TAP M2-3
G	S9-W06-300-030		HLW CUT 1.2-3.8-0.3
H	S9-P05-200-610		S-SCREW, TAP 2-6
I	S9-W06-500-020		HLW CUT 1.45-3.8-0.5
J	S9-B10-200-510		SCREW, TAP 2-5
K	S9-C07-204-510		SCREW, TAP 2-4.5
L	S9-W01-400-100		PW 2-3.5-0.4
M	S9-P04-200-610		SCREW, TAP M2-6
N	S9-P04-200-410		C TAPPING SCREW M2-4
O	S9-W05-300-100		HLW 2.1-3.5-0.3
P	S9-P14-200-630		S-SCREW, M2-6 BLK
Q	S9-E01-001-520		E RING S1.5

TAPE MECHANISM EXPLODED VIEW 1/2 (CX – N3200)

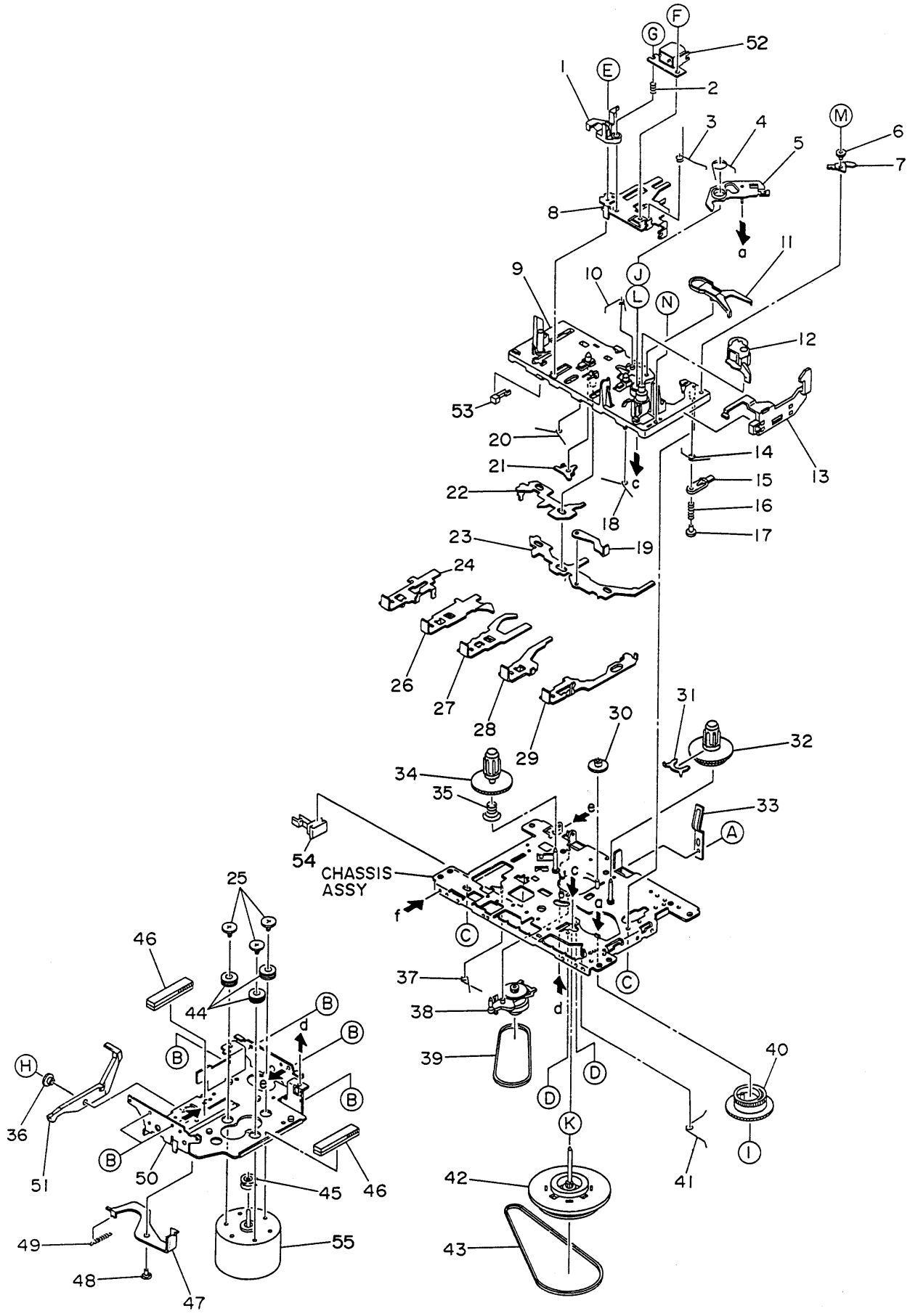


TAPE MECHANISM PARTS LIST 1／2 (CX－N3200)

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	S1-921-020-010		REC ARM
2	S1-921-030-090		PANEL P SPRING
3	S1-921-260-050		GEAR PLATE SPRING
4	S1-921-265-020		GEAR PLATE ASSY
5	S1-921-043-100		PINCH ROLLER ARM ASSY
6	S1-921-140-370		P ARM COLLER
7	S1-921-140-340		P ARM
8	S1-821-030-080		EH SPRING
9	S1-921-030-060		HEAD BASE
10	S1-921-030-140		HEAD PANEL
11	S1-921-141-8A0		M CONTROL SPRING
12	S1-821-030-070		AZIMUTH SPRING
13	S1-921-143-180		BASE ASSY
14	S1-921-260-4A0		SENSING LEVER
15	S1-921-130-020		EJECT SLIDE LEVER
16	S1-921-141-3A0		P CONTROL SPRING
17	S1-921-140-550		PAUSE LEVER(E)
18	S1-921-140-120		PAUSE LEVER SPRING
19	S1-921-140-110		PAUSE STOPPER
20	S1-921-140-150		BUTTON LEVER SPRING(B)
21	S1-921-140-140		BUTTON LEVER SPRING(A)
22	S1-921-140-200		PR STOPPER
23	S1-921-140-090		SWITCH ACTUATOR
24	S1-921-140-640		E KICK LEVER
25	S1-921-140-080		PUSH BUTTON ACTUATOR
26	S1-921-050-060		SENSER
27	S1-921-053-030		TAKE UP REEL ASSY
28	S1-921-140-220		REC BUTTON LEVER
29	S1-921-053-040		SUPPLY REEL ASSY
30	S1-921-140-230		PLAY BUTTON LEVER
31	S1-821-100-990		BACK TENSION SPRING
32	S1-921-140-240		REW BUTTON LEVER
33	S1-921-140-250		FF BUTTON LEVER
34	S1-921-140-660		STOP BUTTON LEVER
35	S1-921-140-610		PAUSE BUTTON LEVER
36	S1-821-100-700		FF GEAR
37	S1-829-100-010		PACK SPRING
38	S1-821-100-690		RECORD SAFETY LEVER
39	S1-921-140-210		REC BUTTON LEVER SPRING
40	S1-921-260-020		CAM GEAR
41	S1-921-140-160		E ACTUATOR SPRING
42	S1-921-090-240		MAIN BELT
43	S1-921-093-030		FLYWHEEL ASSY
44	S1-821-070-110		RF BELT
45	S1-921-073-040		RF CLUTCH ASSY
46	S1-921-140-170		P.S.LEVER SPRING
47	S6-202-140-190		E HEAD
48	S6-201-010-750		R.P.HEAD
49	S6-401-011-490		LEAF SW MSW-1541T
50	S6-401-011-610		LEAF SW MSW-17820MVE1
51	S6-401-010-380		LEAF SW MSW-1275
A	S9-179-000-000		C TAP SCREW M2-3
B	S9-422-000-000		P WASHER CUT 12-3.8-0.3
C	S9-679-000-000		P TAP SCREW M2-5
D	S9-999-180-090		TAP SCREW M2-4.5
E	S9-922-000-000		AZIMUTH SCREW M2-8
F	S9-115-000-000		+ BIND SCREW M2-3
G	S9-821-000-000		+-CAP SCREW M2-8
H	S9-882-000-000		P WASHER 2-3.5-0.4
I	S9-999-200-410		P TAP SCREW M2-3
J	S9-999-030-130		P WASHER CUT 1.45-3.8-0.
K	S9-180-000-000		C TAP SCREW M2-4
L	S9-999-000-030		P WASHER2.1-4-0.13
M	S9-181-000-000		C TAP SCREW M2-5
N	S9-P05-200-610		S TAPPING SCREWM2-6

TAPE MECHANISM EXPLODED VIEW 2/2 (CX – N3200)



TAPE MECHANISM PARTS LIST 2/2 (CX－N3200)

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	S1-921-030-4A0		HEAD BASE
2	S1-821-030-070		AZIMUTH SPRING
3	S1-921-030-090		PANEL P SPRING
4	S1-921-260-050		GEAR PLATE SPRING
5	S1-921-265-020		GEAR PLATE ASSY
6	S1-921-140-370		P ARM COLLER
7	S1-921-140-340		P ARM
8	S1-921-030-110		HEAD PANEL
9	S1-921-143-170		BASE ASSY
10	S1-921-141-8A0		M CONTROL SPRING
11	S1-921-260-4A0		SENSING LEVER
12	S1-921-043-100		PINCH ROLLER ARM ASSY
13	S1-921-130-020		EJECT SLIDE LEVER
14	S1-921-141-3A0		P CONTROL SPRING
15	S1-921-140-550		PAUSE LEVER(E)
16	S1-921-140-120		PAUSE LEVER SPRING
17	S1-921-140-110		PAUSE STOPPER
18	S1-921-140-150		BUTTON LEVER SPRING(B)
19	S1-821-011-590		E KICK LEVER
20	S1-921-140-140		BUTTON LEVER SPRING(A)
21	S1-921-140-200		PR STOPPER
22	S1-921-140-090		SWITCH ACTUATOR
23	S1-921-140-080		PUSH BUTTON ACTUATOR
24	S1-921-140-230		PLAY BUTTON LEVER
25	S1-821-120-020		MOTOR COLLER SCREW
26	S1-921-140-240		REW BUTTON LEVER
27	S1-921-140-250		FF BUTTON LEVER
28	S1-921-140-260		STOP BUTTON LEVER
29	S1-921-140-610		PAUSE BUTTON LEVER
30	S1-821-100-700		FF GEAR
31	S1-921-050-060		SENSER
32	S1-921-053-030		TAKE UP REEL ASSY
33	S1-829-100-010		PACK SPRING
34	S1-921-053-040		SUPPLY REEL ASSY
35	S1-821-100-990		BACK TENSION SPRING
36	S1-821-120-650		COLLER B
37	S1-921-140-170		P.S.LEVER SPRING
38	S1-921-073-040		RF CLUTCH ASSY
39	S1-821-070-110		RF BELT
40	S1-921-260-020		CAM GEAR
41	S1-921-140-160		E ACTUATOR SPRING
42	S1-921-093-040		FLYWHEEL ASSY
43	S1-921-090-240		MAIN BELT
44	S1-820-130-060		MOTOR RUBBER
45	S1-921-120-130		MOTOR PULLEY
46	S1-921-120-120		ANTI VIBR FELT MAT
47	S1-821-120-680		P KICK LEVER (A)
48	S1-821-120-230		PK COLLER SCREW A
49	S1-821-120-250		P KICK LEVER SPRING
50	S1-921-120-110		MOTOR BRACKET
51	S1-921-120-090		P KICK LEVER
52	S6-201-010-750		R.P.HEAD
53	S6-401-011-490		LEAF SW MSW-1541T
54	S6-401-011-610		LEAF SW MSW-17820MVE1
55	S6-002-030-290		MOTOR EG530YD-2BH
A	S9-179-000-000		C TAP SCREW M2-3
B	S9-180-000-000		C TAP SCREW M2-4
C	S9-679-000-000		P TAP SCREW M2-5
D	S9-999-180-090		TAP SCREW M2-4.5
E	S9-004-000-000		SCREW M2-6
F	S9-115-000-000		+ BIND SCREW M2-3
G	S9-922-000-000		AZIMUTH SCREW M2-8
H	S9-182-000-000		C TAP SCREW M2-6
I	S9-422-000-000		P WASHER CUT 12-3.8-0.3
J	S9-999-030-130		P WASHER CUT 1.45-3.8-0.
K	S9-882-000-000		P WASHER 2-3.5-0.4
L	S9-999-000-030		P WASHER2.1-4-0.13
M	S9-999-200-410		P TAP SCREW M2-3
N	S9-P05-200-610		S TAPPING SCREWM2-6

■ 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	82-NF7-904-119		IB, H<HE, LH, E, K, Z>
1	82-NF7-903-118		IB, E<E, K, Z>
1	82-NF7-913-019		IB, GFI-(M)<E, Z>
1	82-NF7-902-019		IB, E(GFI)<E, Z>
1	82-NF7-905-019		IB, HM<HM>
1	82-NF7-907-019		IB, U<U, C>
2	82-NF7-602-019		RC, RC-TN340 EX
3	87-042-167-010		ADPTR, P/J 3.5/3.5<HM>
3	87-009-724-019		PLUG, ADPTR, IR39<LH, K>
3	87-009-725-019		PLUG, ADPTR, IR40<HE, HM, E, Z>
4	87-006-240-019		AM LOOP ANT CON(KO)<HM, Z>
4	87-006-225-019		AM LOOP ANT NC2<U, HE, C, LH, Z>
4	87-006-226-019		AM LOOP ANT NC2<E, K>
4	87-043-106-019		FM WIRE ANT(Z)<Z>
5	87-043-095-019		5M(SW)WIRE-ANT(S)<HM, Z>
6	87-748-632-019		FEEDER ANT FMN

■ SPEAKER 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
=== SX-N3200/N340 ===			
1	82-NS7-002-010		PANEL FR LH
2	82-NS7-003-010		PANEL FR RH
3	82-NS7-014-010		GRILL FRAME ASSY L
4	82-NS7-015-010		GRILL FRAME ASSY R
5	83-NS2-602-010		SPEAKER WOOFER
6	83-NS2-604-010		SPEAKER TWEETER
7	81-MSE-610-010		CERAMIC
8	83-096-614-010		SPEAKER CORD

REF. NO	PART NO.	ｶﾝﾘ NO.	DESCRIPTION
=== SX-SN340 ===			
1	82-NS7-007-010		PANEL FR LH
2	82-NS7-008-010		PANEL FR RH
3	82-NS7-014-010		GRILL FRAME ASSY L
4	82-NS7-015-010		GRILL FRAME ASSY R
5	83-NS2-602-010		SPEAKER WOOFER
6	83-NS2-604-010		SPEAKER TWEETER
7	81-MSE-610-010		CERAMIC
8	83-096-614-010		SPEAKER CORD

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, SERA-SOL
THMS	THERMISTOR
TR	TRANSISTOR
TRIMMER	CAP, TRIMMER
TUN-CAP	VARIABLE CAPACITOR
VIB, CER	RESONATOR, CERAMIC
VIB, XTAL	RESONATOR, CRYSTAL
VR	VOLUME
ZENER	DIODE, ZENER
サージサプレッサ	SERGESUPPRESSOR
セラコン	CAP,CERA

サービス技術ニュース	
番 号	連絡内容
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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-SCRW
ヒンジ	HINGE
ヒンジビス	S-SCRW
ビスセレート	SCRW,SERRART

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Printed in Singapore