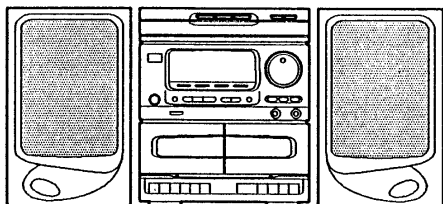


aiwa



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)

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

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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 μ V (75 ohms) 13.2 dBf Z model: 1.9 μ V (75 ohms) 16.8 dBf
Alternate channel selectivity	50 dB ($\pm$ 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 μ V/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 μ V/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
Erase system	AC erase
Motor	DC servomotor $\times$ 1
Heads	Playback head $\times$ 1 (deck 2) Recording/playback head $\times$ 1 (deck 1) Erase head $\times$ 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 (1 ³ / ₁₆ in.) ceramic type super tweeter
Impedance	6 ohms
Music power	40 W
Output sound pressure level	87 dB/W/m
Dimensions (W $\times$ H $\times$ D)	180 $\times$ 302 $\times$ 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 $\times$ H $\times$ D)	Main unit: 260 $\times$ 303.5 $\times$ 340.5 mm (10 ¹ / ₄ $\times$ 12 $\times$ 13 ¹ / ₂ in.) System: 620 $\times$ 303.5 $\times$ 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 μ V (75 ohms) 13.2 dBf
Alternate channel selectivity	50 dB ($\pm$ 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 μ V/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 μ V (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
Erase system	AC erase
Motor	DC servomotor $\times$ 1
Heads	Playback head $\times$ 1 (deck 2) Recording/playback $\times$ 1 (deck 1) Erase head $\times$ 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
Signal-to-noise ratio	90 dB (1 kHz, 0 dB)
Harmonic distortion	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 (³ / ₁₆ in.) ceramic type super tweeter
Impedance	6 ohms
Music power	40 W
Output sound pressure level	87 dB/W/m
Dimensions (W $\times$ H $\times$ D)	180 $\times$ 302 $\times$ 220 mm (7 ¹ / ₈ $\times$ 12 $\times$ 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	60 W
(System total)	
Dimensions (W $\times$ H $\times$ D)	Main unit: 260 $\times$ 303.5 $\times$ 340.5 mm (10 ¹ / ₄ $\times$ 12 $\times$ 13 ¹ / ₂ in.) System: 620 $\times$ 303.5 $\times$ 340.5 mm (24 ¹ / ₂ $\times$ 12 $\times$ 13 ¹ / ₂ in.) Main unit: 6.5 kg (14.3 lb.) System: 11.7 kg (25.74 lb.)
Weight	

● 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 μ V (75 ohms) 13.2 dBf
Alternate channel selectivity	50 dB ($\pm$ 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 μ V/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) 0.06 % (8 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. (1 $\frac{7}{8}$ ips)
Recording system	AC bias
Erase system	AC erase
Motor	DC servomotor $\times$ 1
Heads	Playback head $\times$ 1 (deck 2) Recording/playback $\times$ 1 (deck 1) Erasure head $\times$ 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 $\frac{1}{8}$ in.) cone type woofer 50 mm (2 in.) cone type tweeter 20 mm (1 $\frac{3}{16}$ in.) ceramic type super tweeter
Impedance	6 ohms
Music power	40 W
Output sound pressure level	87 dB/W/m
Dimensions (W $\times$ H $\times$ D)	180 $\times$ 302 $\times$ 220 mm (7 $\frac{1}{8}$ $\times$ 12 $\times$ 8 $\frac{3}{4}$ in.)
Weight	2.6 kg (5.72 lbs.)

COMMON SECTION

Power requirements	AC 120 V, 60 Hz
Power consumption	55 W
Dimensions (W $\times$ H $\times$ D)	Main unit: 260 $\times$ 303.5 $\times$ 340.5 mm (10 $\frac{1}{4}$ $\times$ 12 $\times$ 13 $\frac{1}{2}$ in.) System: 620 $\times$ 303.5 $\times$ 340.5 mm (24 $\frac{1}{2}$ $\times$ 12 $\times$ 13 $\frac{1}{2}$ 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.

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 käyttäjän turvallisuusluokan 1 ylitävälle näkymättömälle lasersäteilylle.

WARNING!

Om apparaten används på annat sätt än vad som specificeras i denna bruksanvisning, kan användaren utsättas för osynlig laserstråling, 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.

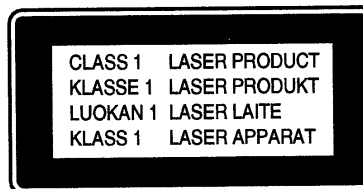
ATTENTION

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

ADVARSEL!

Usynlig laserstråling ved åbning, når sikkerhedsafbrydere er ude af funktion. Undgå udsættelse for stråling.

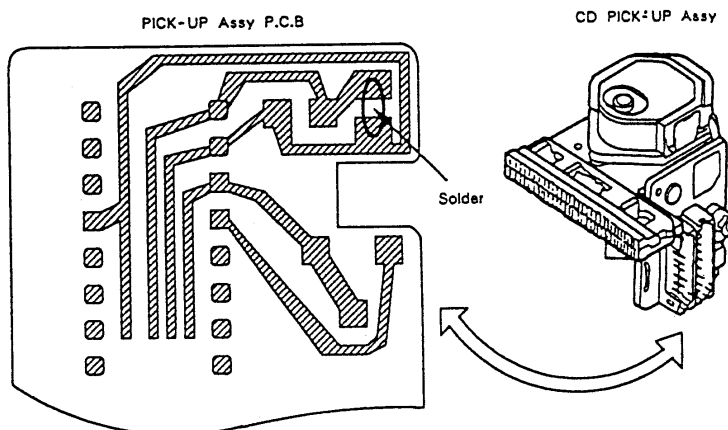
This Compact Disc player is classified as a CLASS 1 LASER product. The CLASS 1 LASER PRODUCT label is located on the rear exterior.



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.	カリ NO.	DESCRIPTION	REF. NO.	PART NO.	カリ NO.	DESCRIPTION
IC				MAIN C. B			
	87-001-196-089		IC, ICP-N10<EXCEPT U, C>	BPF731	82-794-697-019		FLTR, ANTI BIRDIE<Z>
	87-001-486-019		IC, ICP-N15<U>	BPF831	87-030-105-019		FLTR, BPMP6A<Z>
	82-NF7-641-010		IC, UPD78044GF-103	C101	87-010-398-099		CAP, E 2200-35V SME
	87-017-373-019		IC, NJH32H380A	C102	87-010-399-099		CAP, E 3300-35 SME
	87-020-899-019		IC, STK4122-MK2<U, C, E, K, Z>	C104	87-010-237-089		CAP, E 1000-16<EXCEPT U>
	87-001-475-019		IC, STK4132-2<HE, HM, LH>	C104	87-010-980-089		CAP, E 330-16 FS<U, C>
	87-020-758-019		IC, NJM2068SD	C105	87-010-101-089		CAP, E 220-16 SME
	87-002-727-019		IC, NJM4558L	C106	87-010-247-089		CAP, E 100-50 SME
	87-001-607-089		IC, NJM4558M	C107	87-010-384-049		CAP, E 100-25 SME
	87-017-448-019		IC, GD4052B	C108	87-010-384-049		CAP, E 100-25 SME
	87-002-272-089		IC, TC4052BF	C109	87-010-263-049		CAP, E 100-10
	87-017-374-019		IC, TC4094BP	C110	87-010-263-049		CAP, E 100-10
	87-017-541-080		IC, M65830AFP<HE, HM>	C112	87-010-260-049		CAP, E 47-25 SME
	87-017-487-019		IC, BU2611<HM>	C113	87-010-403-089		CAP, E 3.3-50 SME
	87-002-607-019		IC, LM7001<EXCEPT HM>	C115	87-010-196-089		C-CAP, S 0.1-25 F
	87-017-434-019		IC, KIA6043S	C116	87-012-140-089		C-CAP, S 470P-50 CH
	87-001-942-019		IC, LA1265S(G)	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, S 1800P-50 B<HE, HM, LH>
				C214	87-010-401-049		CAP, E 1-50 SME<U>
TRANSISTOR							
	89-213-702-019		TR, 2SB1370E	C214	87-010-404-049		CAP, E 4.7-50 SME<EXCEPT U>
	89-113-187-889		TR, 2SA1318TU	C215	87-010-181-089		C-CAP, S 1800P-50 B<HE, HM, LH>
	89-332-665-089		TR, 2SC3266GR	C215	87-010-175-089		C-CAP, S 560P-50 SL<U, C, E, K, Z>
	89-318-155-089		TR, 2SC1815GR	C216	87-010-181-089		C-CAP, S 1800P-50 B<HE, HM, LH>
	89-327-125-089		C-TR, 2SC2712GR	C216	87-010-175-089		C-CAP, S 560P-50 SL<U, C, E, K, Z>
	89-420-053-089		TR, 2SD2005R<U, C>	C217	87-010-546-089		CAP, E 0.33-50 SME
	89-333-266-089		C-TR, 2SC3326B	C218	87-010-546-089		CAP, E 0.33-50 SME
	87-026-226-089		C-TR, DTA143EK	C221	87-010-401-049		CAP, E 1-50 SME<U>
	87-026-232-089		C-TR, DTA144WK	C221	87-010-402-089		CAP, E 2.2-50 SME<EXCEPT U>
	87-026-210-089		C-TR, DTC144EK	C222	87-010-401-049		CAP, E 1-50 SME<U>
	89-502-466-089		FET, 2SK246-BL (TPE2)	C222	87-010-402-089		CAP, E 2.2-50 SME<EXCEPT U>
	89-111-625-089		C-TR, 2SA1162GR	C223	87-010-263-049		CAP, E 100-10<U>
	87-026-233-089		C-TR, DTA114TK	C223	87-010-374-089		CAP, E 47-10<EXCEPT U>
	89-110-155-089		TR, 2SA1015GR	C224	87-010-263-049		CAP, E 100-10<U>
	89-333-317-089		TR, 2SC3331T	C224	87-010-374-089		CAP, E 47-10<EXCEPT U>
	89-109-705-089		TR, 2SA970GR<E, K, Z>	C225	87-010-260-049		CAP, E 47-25 SME
	87-026-224-089		C-TR, DTC143XK	C226	87-010-260-049		CAP, E 47-25 SME
	89-318-154-089		TR, 2SC1815Y<HM>	C227	87-010-196-089		C-CAP, S 0.1-25 F
	87-026-214-089		TR, DTA114YS	C228	87-010-196-089		C-CAP, S 0.1-25 F
	89-327-143-089		C-TR, 2SC2714 (O)	C229	87-012-361-089		C-CAP, S 0.056-25 Y
	89-503-025-089		C-FET, 2SK302 GR	C230	87-012-361-089		C-CAP, S 0.056-25 Y
	89-502-114-089		FET, 2SK211Y<E, K, Z>	C231	87-010-189-089		C-CAP, S 8200P-50 B<Z>
	89-320-011-089		TR, 2SC2001K<HM>	C232	87-010-189-089		C-CAP, S 8200P-50 B<Z>
	87-026-462-089		TR, 2SC1740S (RS) <HM>	C236	87-010-408-089		CAP, E 47-50 SME
	89-505-445-089		FET, 2SK544E<HM>	C237	87-010-196-089		C-CAP, S 0.1-25 F<Z>
	87-026-215-089		TR, DTC114YS<HM>	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
DIODE				C250	87-010-404-049		CAP, E 4.7-50 SME
	87-002-225-019		DIODE, DBF 40C-K10	C303	87-010-178-089		C-CAP, S 1000P-50 B<U, C>
	87-017-011-089		DIODE, LT1N4003L<EXCEPT U, C>	C303	87-012-140-089		C-CAP, S 470P-50 CH<EXCEPT U, C>
	87-002-836-089		DIODE, 1A3-J	C304	87-012-140-089		C-CAP, S 470P-50 CH
	87-020-027-089		C-DIODE, 1SS184	C305	87-010-189-089		C-CAP, S 8200P-50 B
	87-020-465-089		DIODE, 1SS133 T-72	C306	87-010-189-089		C-CAP, S 8200P-50 B
				C310	87-010-197-089		C-CAP, S 0.01-25 B
	87-017-122-059		ZENER, HZS11A2 RA	C311	87-010-426-089		C-CAP, S 0.012-25 B
	87-017-145-059		ZENER, HZS27-2 RA<EXCEPT U>	C312	87-010-426-089		C-CAP, S 0.012-25 B
	87-002-564-089		DIODE, 1SS133 RA	C313	87-010-192-089		C-CAP, S 0.022-50 F
	87-001-731-059		ZENER, HZS6C2L RA	C351	87-012-154-089		C-CAP, S 150P-50 CH
	87-017-091-059		ZENER, HZS5C1 RA	C352	87-012-154-089		C-CAP, S 150P-50 CH
	87-001-290-089		ZENER, HZS6B1L<HM>	C353	87-012-157-089		C-CAP, S 330P-50 CH<U, C>
	87-001-290-059		ZENER, HZS6B1L RA<EXCEPT Z>	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>

REF. NO.	PART NO.	カリ NO.	DESCRIPTION
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, S	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.	カリ NO.	DESCRIPTION	REF. NO.	PART NO.	カリ NO.	DESCRIPTION
C833	87-018-209-089		CAP, TC-U 0.1-50 F<HM>	L742	81-631-612-019		CFMT 450A<HM>
C834	87-010-150-089		C-CAP, S 6P-50 CH<HM>	L742	87-008-491-019		FLTR, PACFAZ 450<EXCEPT HM>
C835	87-010-154-089		C-CAP, S 10P-50 CH	L801	87-006-219-019		COIL, ANT FM 3/4T, S
C836	87-010-312-089		C-CAP, S 15P-50 CH	L802	87-006-210-019		COIL, ANT FM 2 3/4T
C837	87-010-312-089		C-CAP, S 15P-50 CH	L803	87-006-200-019		COIL, RF FM 3-1/2T, L5
C840	87-010-197-089		C-CAP, S 0.01-25 B	L804	87-006-201-019		COIL, RF FM3-1/2TS, L5
C843	87-010-146-089		C-CAP, S 2P-50 CH	L805	87-003-098-089		COIL, 2.2UH
C850	87-010-197-089		C-CAP, S 0.01-25 B<HM>	L806	87-008-427-019		COIL, FMIFT (4T)
C851	87-010-197-089		C-CAP, S 0.01-25 B<Z>	L807	87-006-252-019		COIL, OSC FM (7K)
C852	87-010-196-089		C-CAP, S 0.1-25 F	L831	87-006-201-019		COIL, RF FM3-1/2TS, L5<Z>
C860	87-010-148-089		C-CAP, S 4P-50 CH<Z>	L832	87-003-098-089		COIL, 2.2UH
C901	87-010-197-089		C-CAP, S 0.01-25 B<HM>	L901	87-006-236-019		COIL, ANT MW (SG) <HM>
C902	87-010-197-089		C-CAP, S 0.01-25 B<HM>	L902	87-006-237-019		COIL, ANT SW1 (SG) <HM>
C903	87-010-197-089		C-CAP, S 0.01-25 B<HM>	L903	87-006-238-019		COIL, ANT SW2 (SG) <HM>
C904	87-010-263-089		CAP, E 100-10<HM>	L904	87-005-372-089		COIL, S 1MH<HM>
C905	87-010-315-089		C-CAP, S 27P-50 CH<HM>	L905	87-005-372-089		COIL, S 1MH<HM>
C906	87-010-197-089		C-CAP, S 0.01-25 B<HM>	L906	87-007-326-019		COIL, OSC MW (SG) <HM>
C907	87-010-197-089		C-CAP, S 0.01-25 B<HM>	L907	87-007-327-019		COIL, OSC SW1 (SG) <HM>
C908	87-015-819-089		C-CAP 0.01<HM>	L908	87-007-328-019		COIL, OSC SW2 (SG) <HM>
C909	87-010-544-089		CAP, E 0.1-50<HM>	L941	87-006-234-019		COIL, ANT LW<E, K, Z>
C911	87-014-051-089		CAP, PP 560P-100 J<HM>	L942	87-007-323-019		COIL, OSC LW S<E, K, Z>
C912	87-014-073-089		CAP, PP 4700P-100 J<HM>	L981	82-NT3-632-019		AM PACK 1, SWG<U, HE, C, LH>
C913	87-010-312-089		C-CAP, S 15P-50 CH<HM>	L981	87-042-147-019		AM PACK 4<E, K, Z>
C914	87-012-150-089		C-CAP, S 20P-50 CH<HM>	R105	87-022-050-089		RESIS, METAL 1W-0.22J
C915	87-010-186-089		C-CAP, S 4700P-50 B<HM>	R106	87-022-050-089		RESIS, METAL 1W-0.22J
C916	87-010-384-089		CAP, E 100-25 SME<HM>	R243	87-022-391-089		RES, M/F 0.47-1W<U, HE, HM, C, LH>
C917	87-015-819-089		C-CAP, 0.01<HM>	R243	87-022-184-089		RES, METAL 1W-0.22 J<E, K, Z>
C920	87-010-197-089		C-CAP, S 0.01-25 B<HM>	R244	87-022-391-089		RES, M/F 0.47-1W<U, HE, HM, C, LH>
C921	87-010-197-089		C-CAP, S 0.01-25 B<HM>	R244	87-022-184-089		RES, METAL 1W-0.22 J<E, K, Z>
C922	87-010-197-089		C-CAP, S 0.01-25 B<HM>	SFR451	87-024-172-089		SFR, 10K DIA6 V<U, C>
C923	87-010-150-089		C-CAP, S 6P-50 CH<HM>	SFR451	87-024-173-089		SFR, 22K DIA6 V<EXCEPT U, C>
C924	87-010-197-089		C-CAP, S 0.01-25 B<HM>	SFR452	87-024-172-089		SFR, 10K DIA6 V<U, C>
C926	87-010-400-089		CAP, E 0.47-50 SME<HM>	SFR452	87-024-173-089		SFR, 22K DIA6 V<EXCEPT U, C>
C927	87-018-209-089		CAP, TC-U 0.1-50 F<HM>	SFR721	87-024-171-089		SFR, 4.7K DIA6 V
C930	87-015-785-089		C-CAP, 0.1-25 F<HM>	SFR722	87-024-174-089		SFR, 33K DIA6 V
C941	87-010-197-089		C-CAP, S 0.01-25 B<E, K, Z>	TC701	87-011-220-089		CAP, TRIMMER 20P VCT<HM>
C944	87-010-154-089		C-CAP, S 10P-50 CH<E, K, Z>	TC701	87-011-221-089		TRIMER, 30P VCT51
C944	87-010-311-089		C-CAP, S 12P-50 CH<U, HE, C, LH>	TC801	87-011-219-089		CAP, TRIMMER 10P VCT
C945	87-014-050-089		CAP, PP 510P-100J<E, K, Z>	TC802	87-011-219-089		CAP, TRIMMER 10P VCT
C946	87-010-401-049		CAP, E 1-50 SME	TC803	87-011-219-089		CAP, TRIMMER 10P VCT<E, K, Z>
C950	87-010-166-089		C-CAP, S 100P-50 SL<EXCEPT HM>	TC942	87-011-221-089		TRIMMER, 30P VCT51<E, K, Z>
C964	87-010-154-089		C-CAP, S 10P-50 CH<E, K, Z>	X701	87-030-163-019		VIB, XTAL 7.2MHZ
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>	C201	87-010-178-089		C-CAP, S 1000P-50 B
CF801	82-799-621-019		FLTR, SFE10. 7MA5A<Z>	C202	87-010-196-089		C-CAP, S 0.1-25 F
CF802	87-008-261-019		FLTR, SFE10. 7MA5-A	C203	87-010-404-049		CAP, E 4.7-50 SME
CF803	87-008-261-019		FLTR, SFE10. 7MA5-A<Z>	C204	87-010-404-049		CAP, E 4.7-50 SME
D801	87-027-900-089		VARI-CAP, 1SV147	C205	87-010-263-049		CAP, E 100-10
D801	87-002-730-089		VARI-CAP, SVC203SPA<HM>	C206	87-010-401-049		CAP, E 1-50 SME
D802	87-027-900-089		VARI-CAP, 1SV147<EXCEPT HM>	C207	87-010-401-049		CAP, E 1-50 SME
D802	87-002-730-089		VARI-CAP, SVC203SPA<HM>	C208	87-010-248-089		CAP, E 220-10 SME
D803	87-027-900-089		VARI-CAP, 1SV147<EXCEPT HM>	C209	87-010-196-089		C-CAP, S 0.1-25 F
D803	87-002-730-089		VARI-CAP, SVC203SPA<HM>	C210	87-010-405-049		CAP, E 10-50 SME
D908	87-017-568-089		VARI-CAP, SVC342M/L<HM>	C501	87-010-248-089		CAP, E 220-10 SME
FT101	83-NE2-618-019		F-CABEL, 5P-2.5	C502	87-010-401-049		CAP, E 1-50 SME
ICP2	87-001-486-019		IC, ICP-N15<U>	C504	87-010-401-049		CAP, E 1-50 SME
J250	87-049-855-019		JACK, 6.3 W/S	C505	87-010-405-049		CAP, E 10-50 SME
J254	87-033-226-019		TERMINAL, SP 4P R<HE, HM, LH, E, K>	C506	87-012-157-089		C-CAP, S 330P-50 CH
J254	87-033-215-019		TERMINAL, SP 4P R<U, C, Z>	C507	87-010-545-049		CAP, E 0.22-50 SME
J652	80-MT3-616-019		JACK, PIN 2P	C508	87-010-167-089		C-CAP, S 120P-50 SL
J801	82-NF5-621-019		ANT TERM, JBT0222<U, HE, HM, C, LH>	C509	87-010-183-089		C-CAP, S 2700P-50 B
J801	81-631-646-019		ANT TERM, 2P PAS<E, K, Z>	C510	87-010-401-049		CAP, E 1-50 SME
L231	87-005-366-019		COIL, 1UH<E, K, Z>	C511	87-010-196-089		C-CAP, S 0.1-25 F
L232	87-005-366-019		COIL, 1UH<E, K, Z>	C512	87-010-177-089		C-CAP, S 820P-50 SL
L401	87-003-131-089		COIL, 10MH J	C513	87-010-178-089		C-CAP, S 1000P-50 B
L402	87-003-131-089		COIL, 10MH J	C514	87-010-178-089		C-CAP, S 1000P-50 B
L451	87-007-300-019		COIL, OSC BIAS 85K	C515	87-010-178-089		C-CAP, S 1000P-50 B
L741	81-631-611-019		COIL, QUAD (SINGLE)	C710	87-010-196-089		C-CAP, S 0.1-25 F<HE, HM>

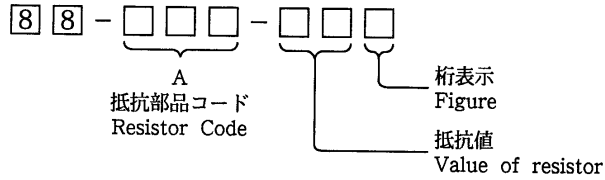
FRONT C. B

REF. NO.	PART NO.	カリ 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 (E1-66)<HE, HM, LH>
△PT101	82-NF7-658-119		PT, U (E1-66)<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)				Resistor Code : A 抵抗コード : A
				Form/外形	L	W	t	
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 2SC2001
2SA1015 2SC3266
2SA1318 2SC3331
2SC1815



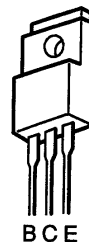
2SK246



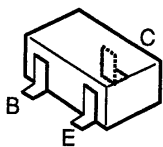
DTA114YS
DTC114YS
2SC1740



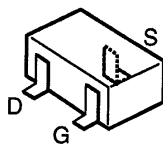
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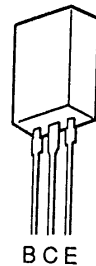
2SB1370



2SA1162 DTA114TK
2SC2712 DTA143EK
2SC2714 DTA144WK
2SC3326 DTC143XK
DTC144EK



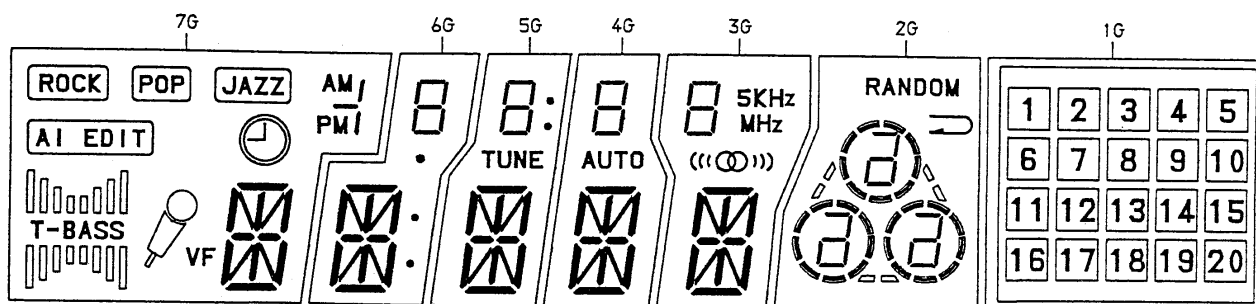
2SK211
2SK302



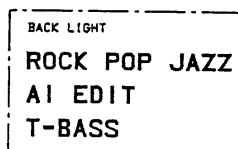
2SD2005

FL GRID ASSIGNMENT/ANODE CONNECTION

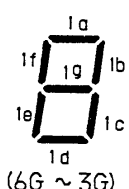
GRID ASSIGNMENT



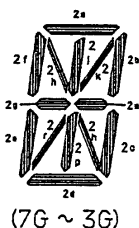
SEGMENT DESIGNATIO



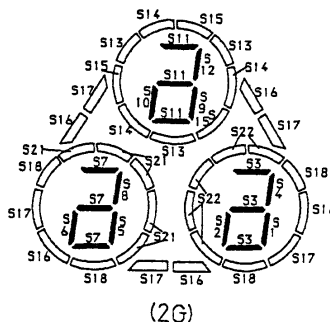
(7G)



(6G ~ 3G)



(7G ~ 3G)

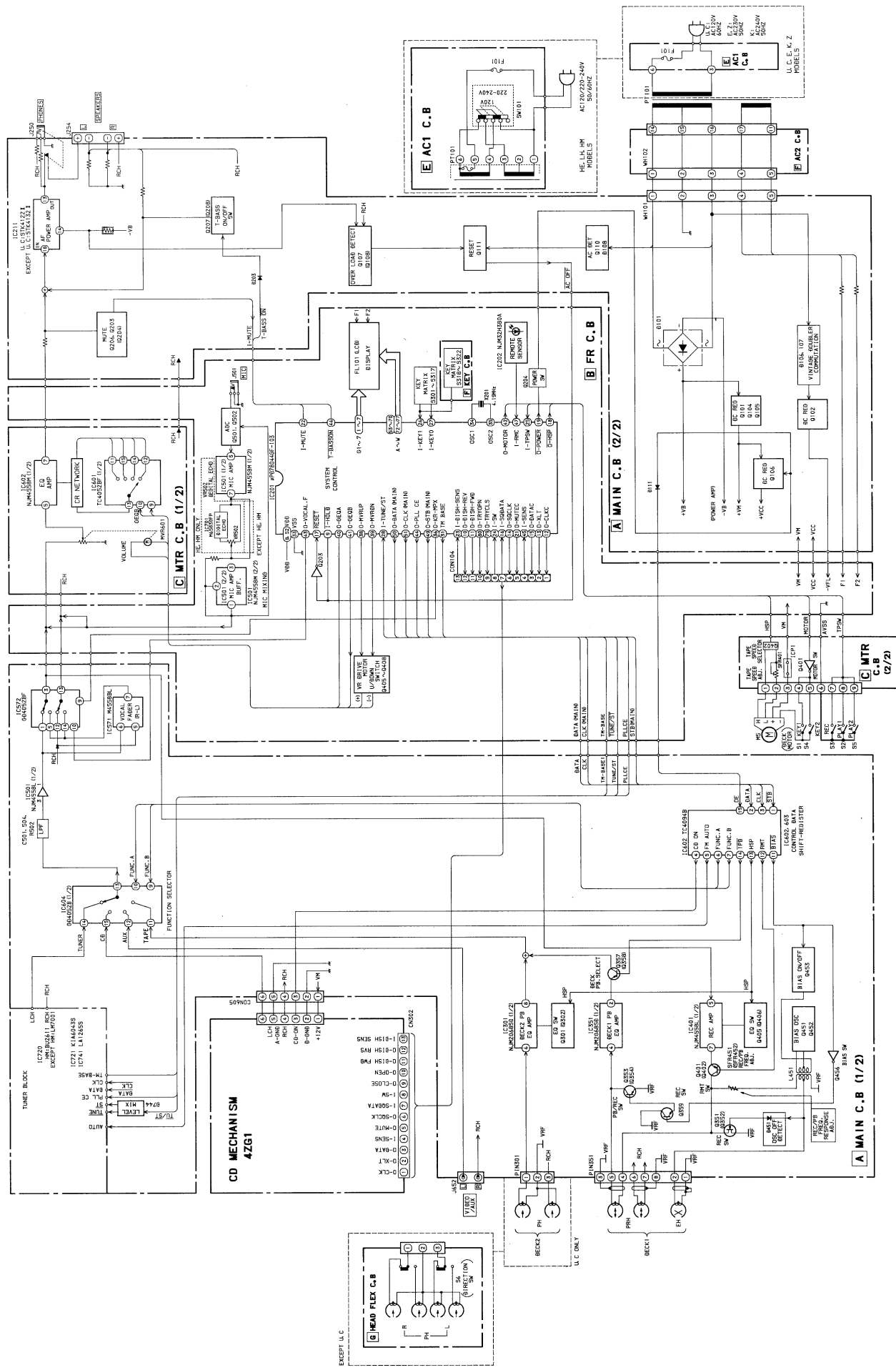


(2G)

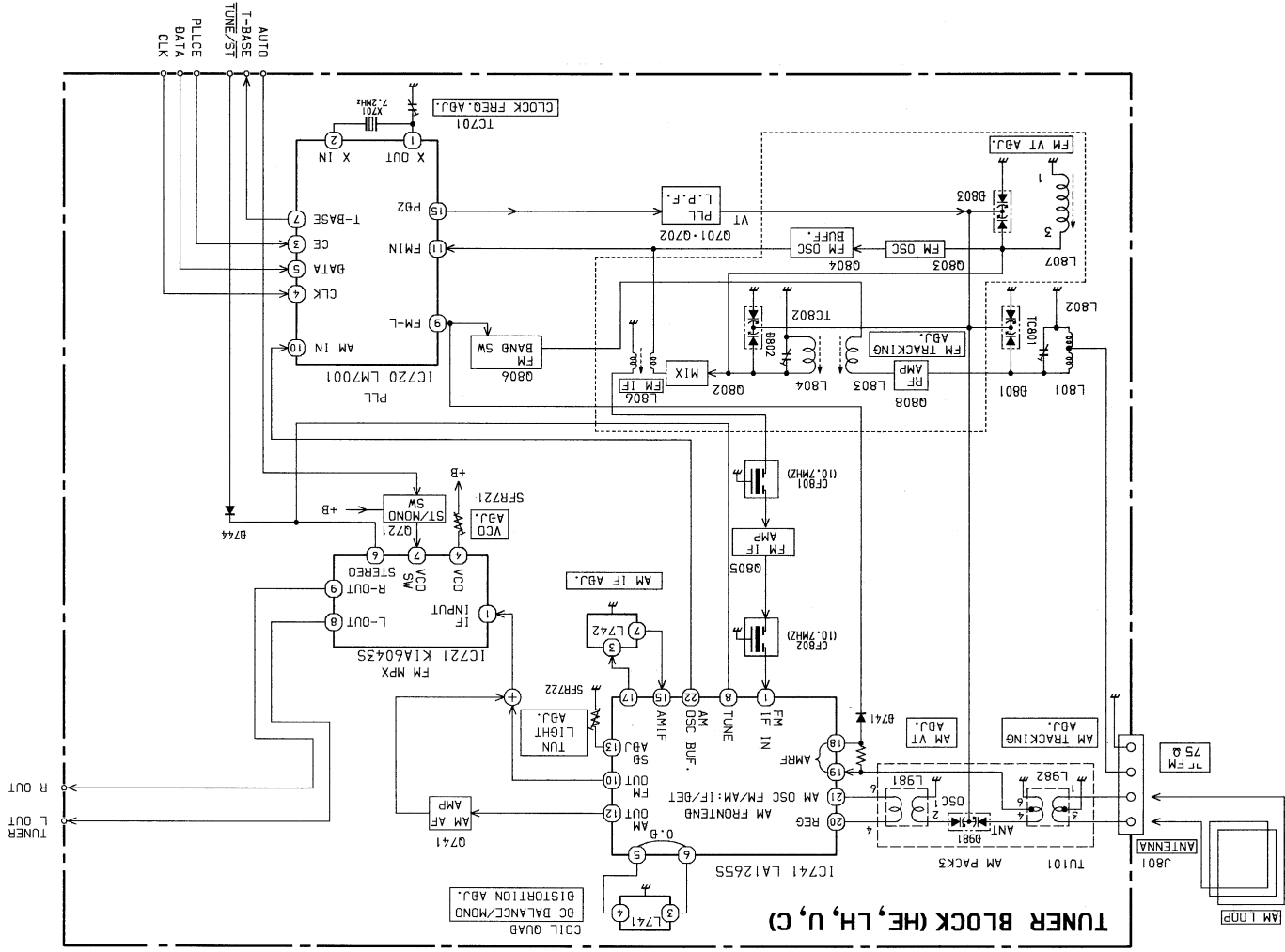
ANODE CONNECTION

	7G	6G	5G	4G	3G	2G	1G
A	2d	2d	2d	2d	2d	S1	20
B	2i, 2p	2i, 2p	2i, 2p	2i, 2p	2i, 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			TUNE	AUTO	(((∞)))	S14	7
O				—	MHz	S15	6
P	AI EDIT	—		—	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	—	—	—	—	—	

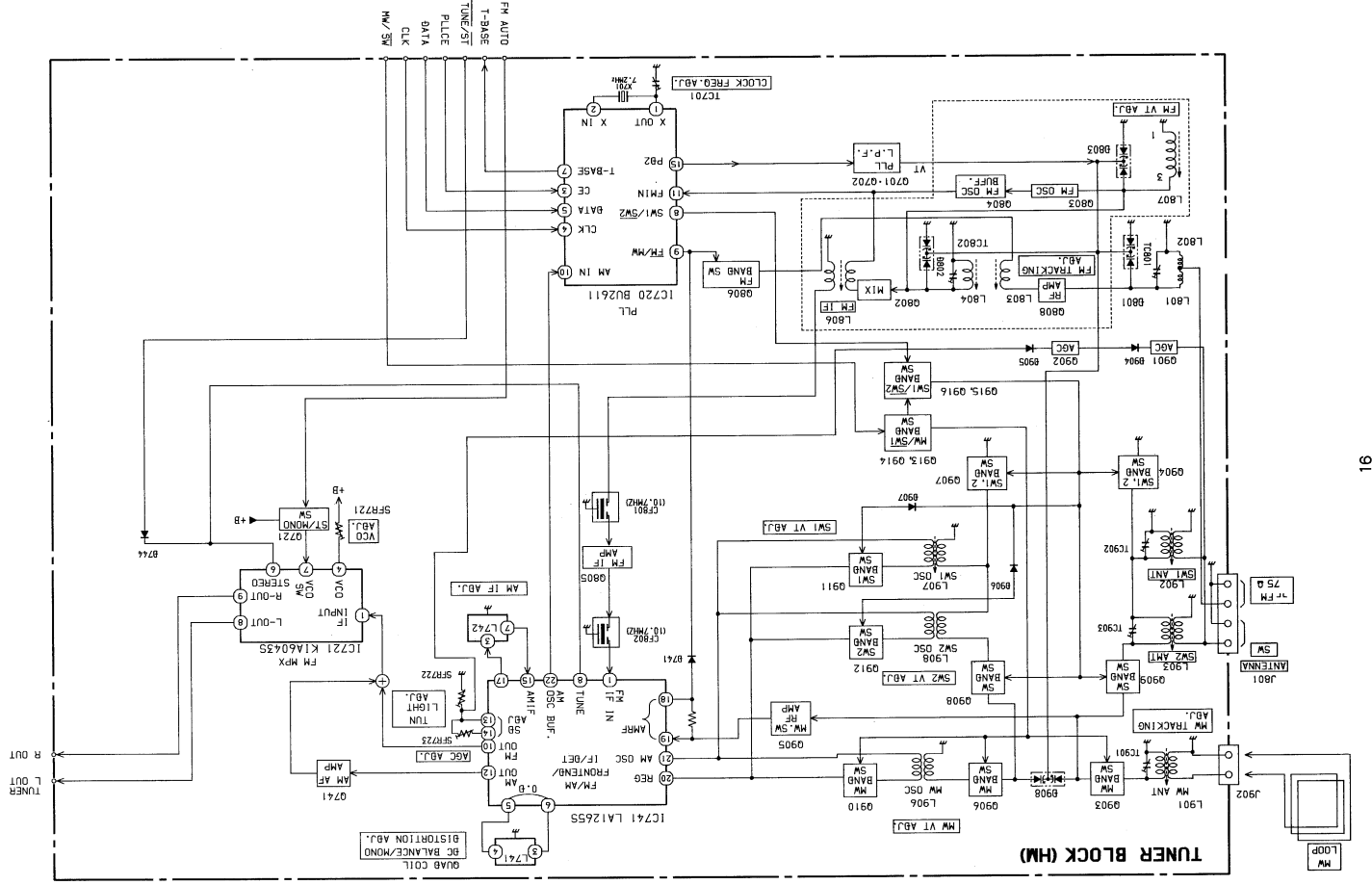
BLOCK DIAGRAM – 1 (MAIN/FRONT)



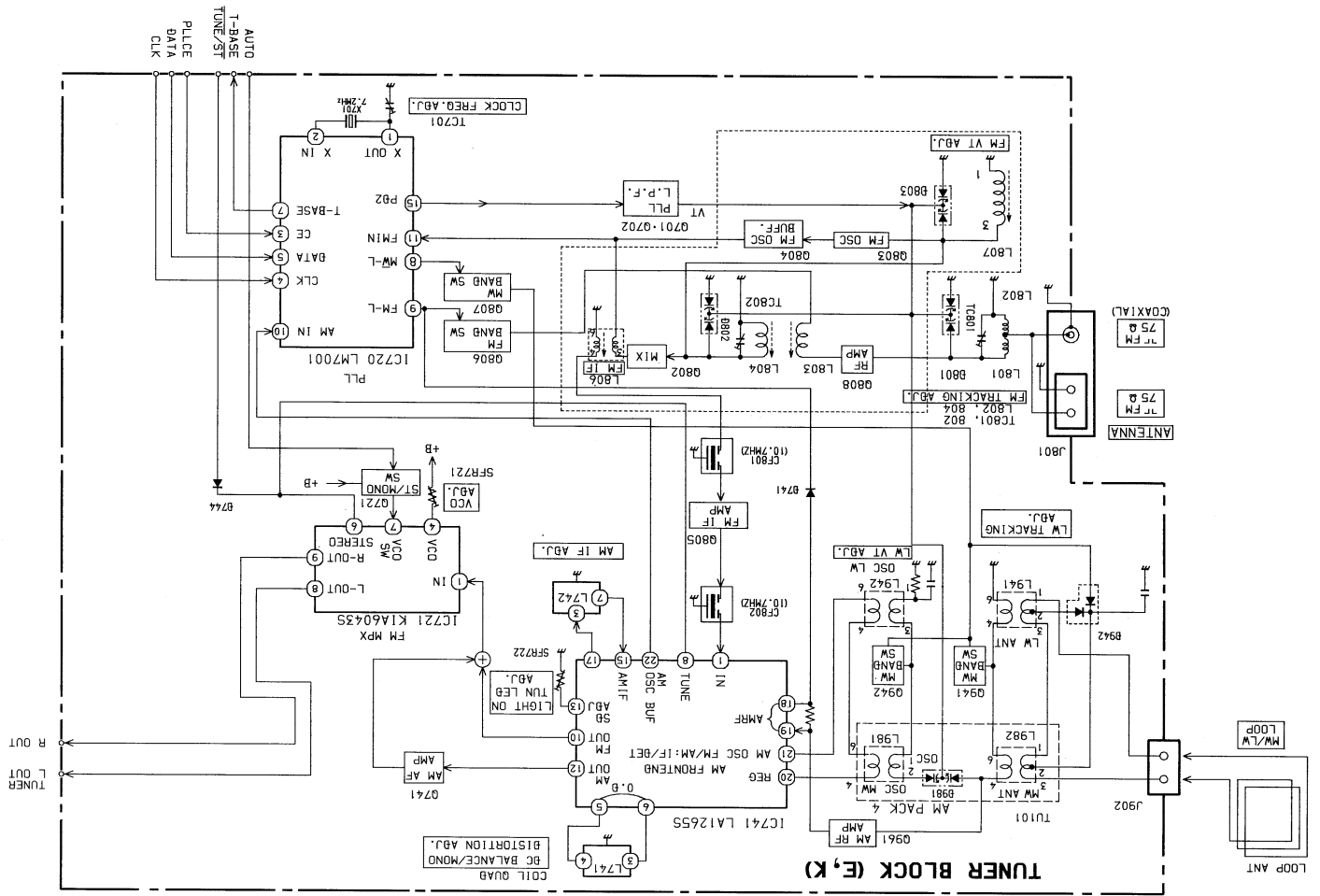
BLOCK DIAGRAM - 2 (TUNER : HE, LH, U, C)



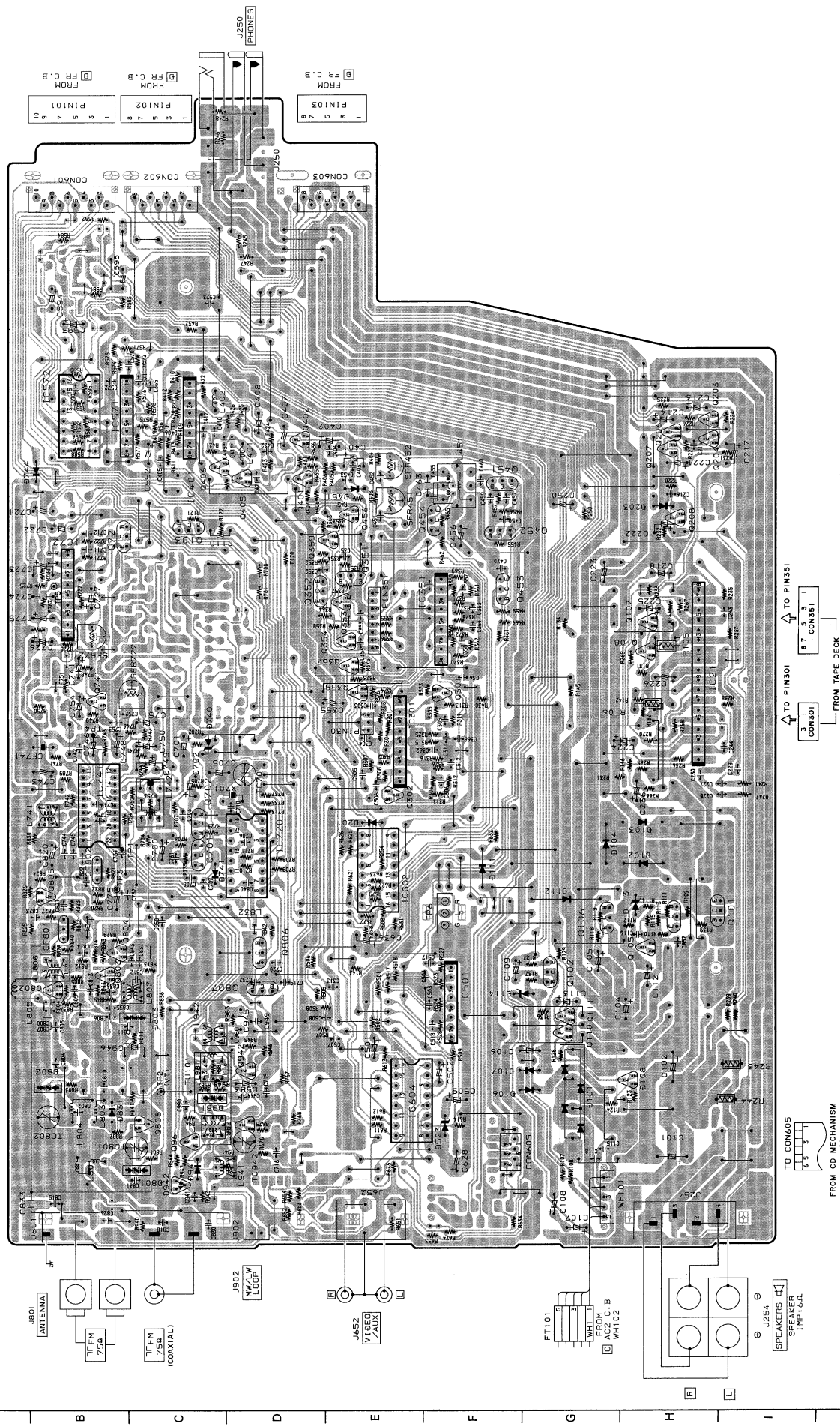
BLOCK DIAGRAM - 3 (TUNER : HM)



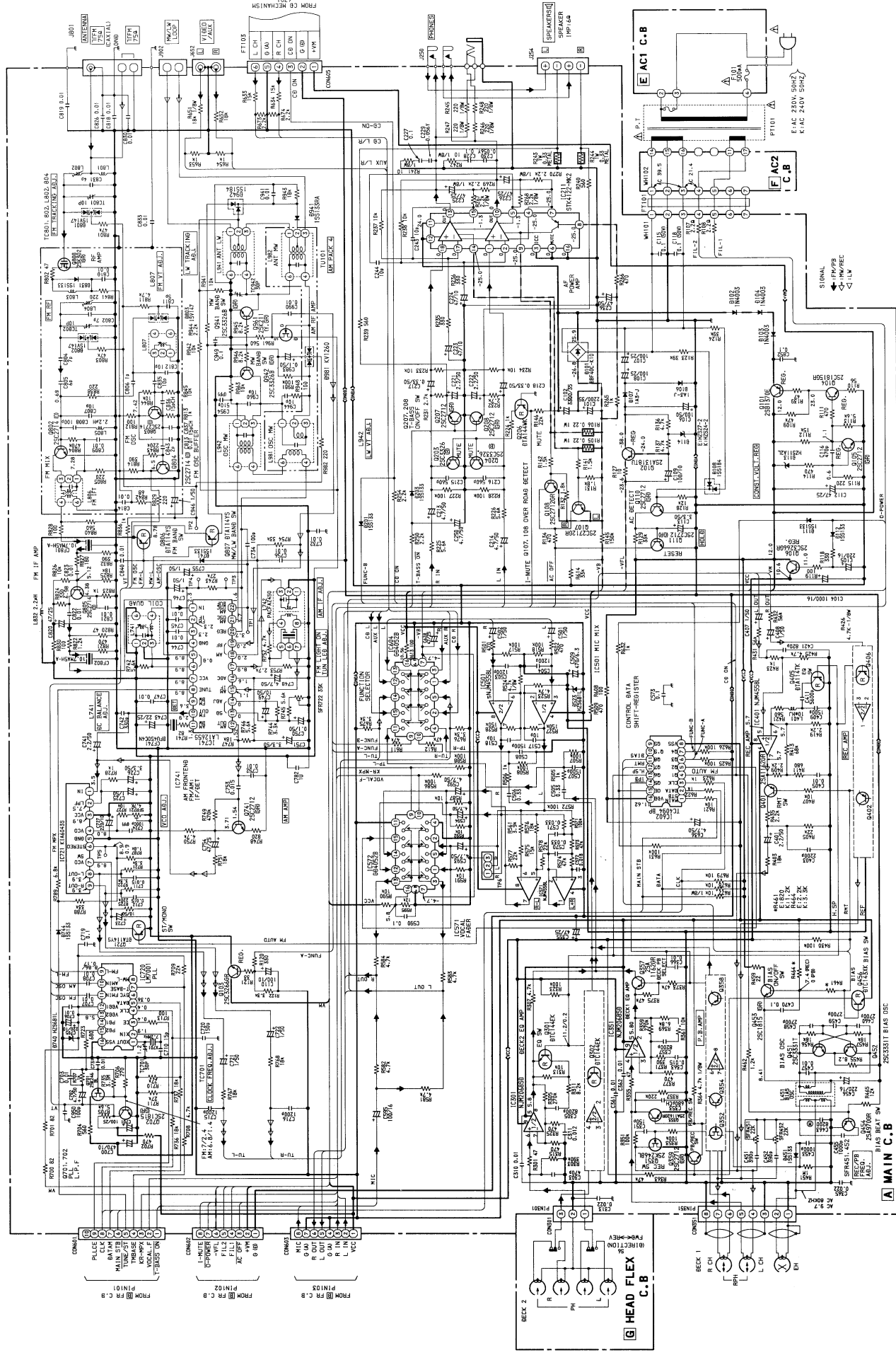
BLOCK DIAGRAM – 4 (TUNER: E, K)



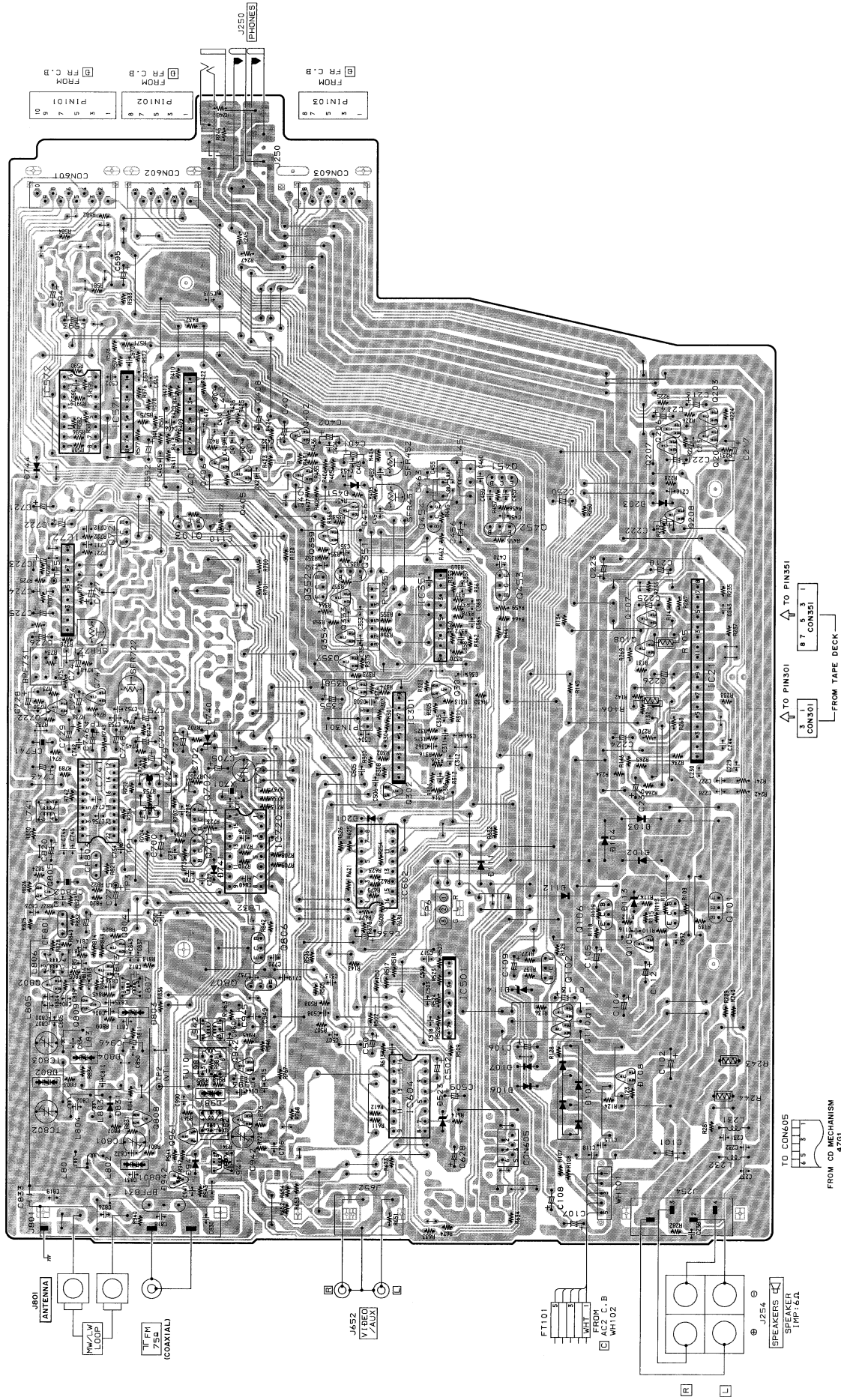
A MAIN C.B.(E,K)



SCHEMATIC DIAGRAM - 1 (MAIN : E : K)

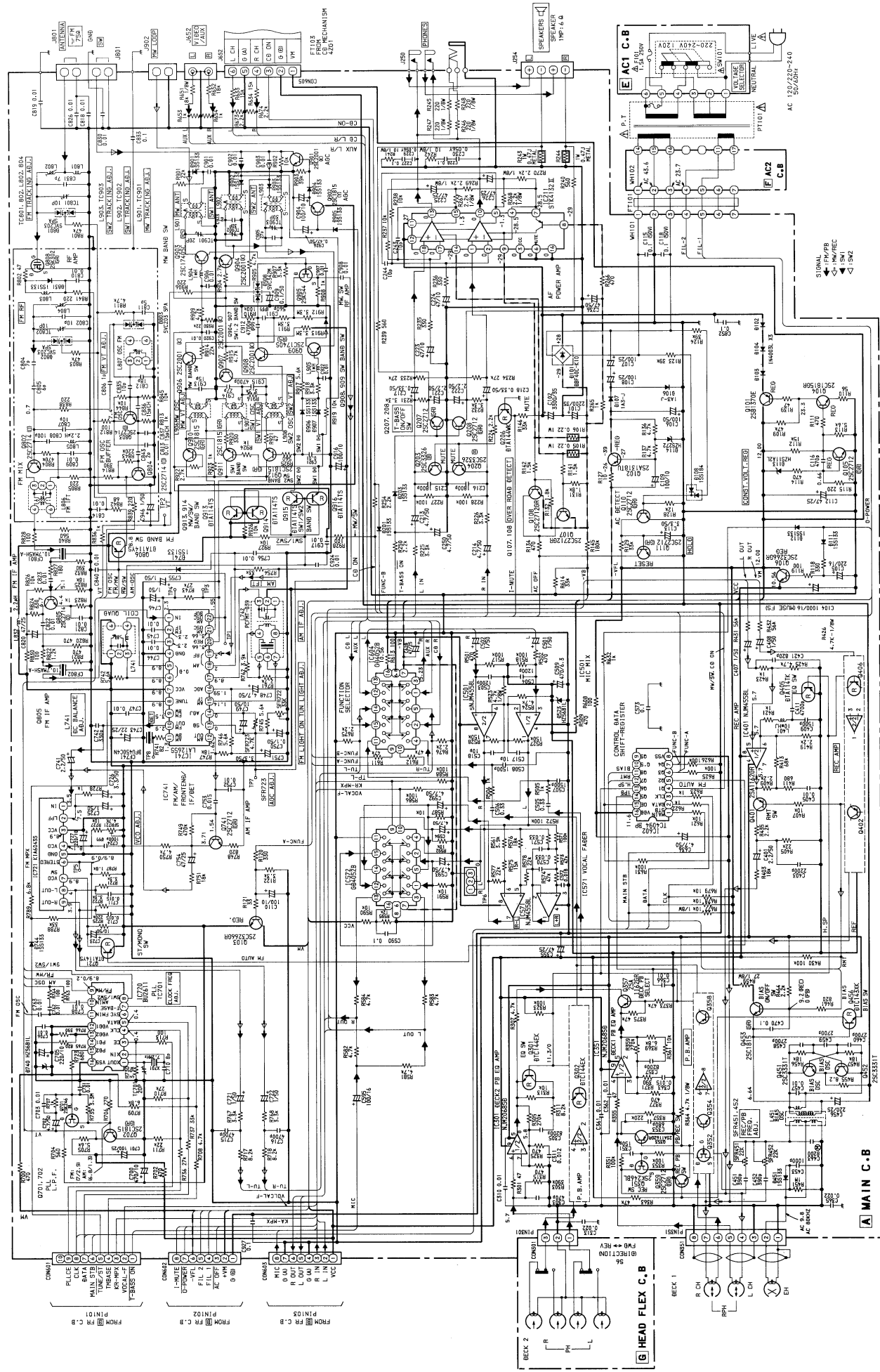


A MAIN C.B(Z)

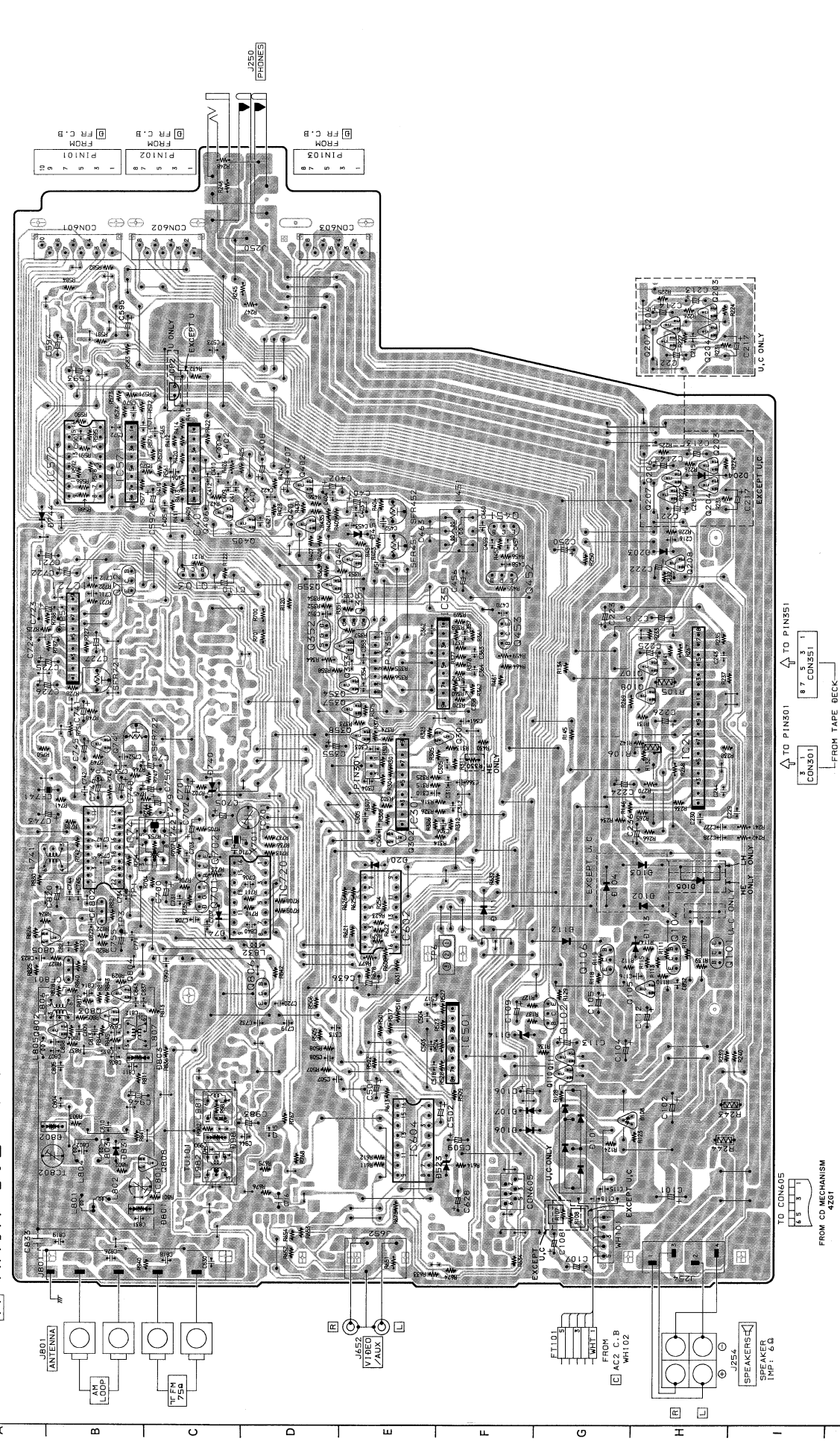


[illegible]

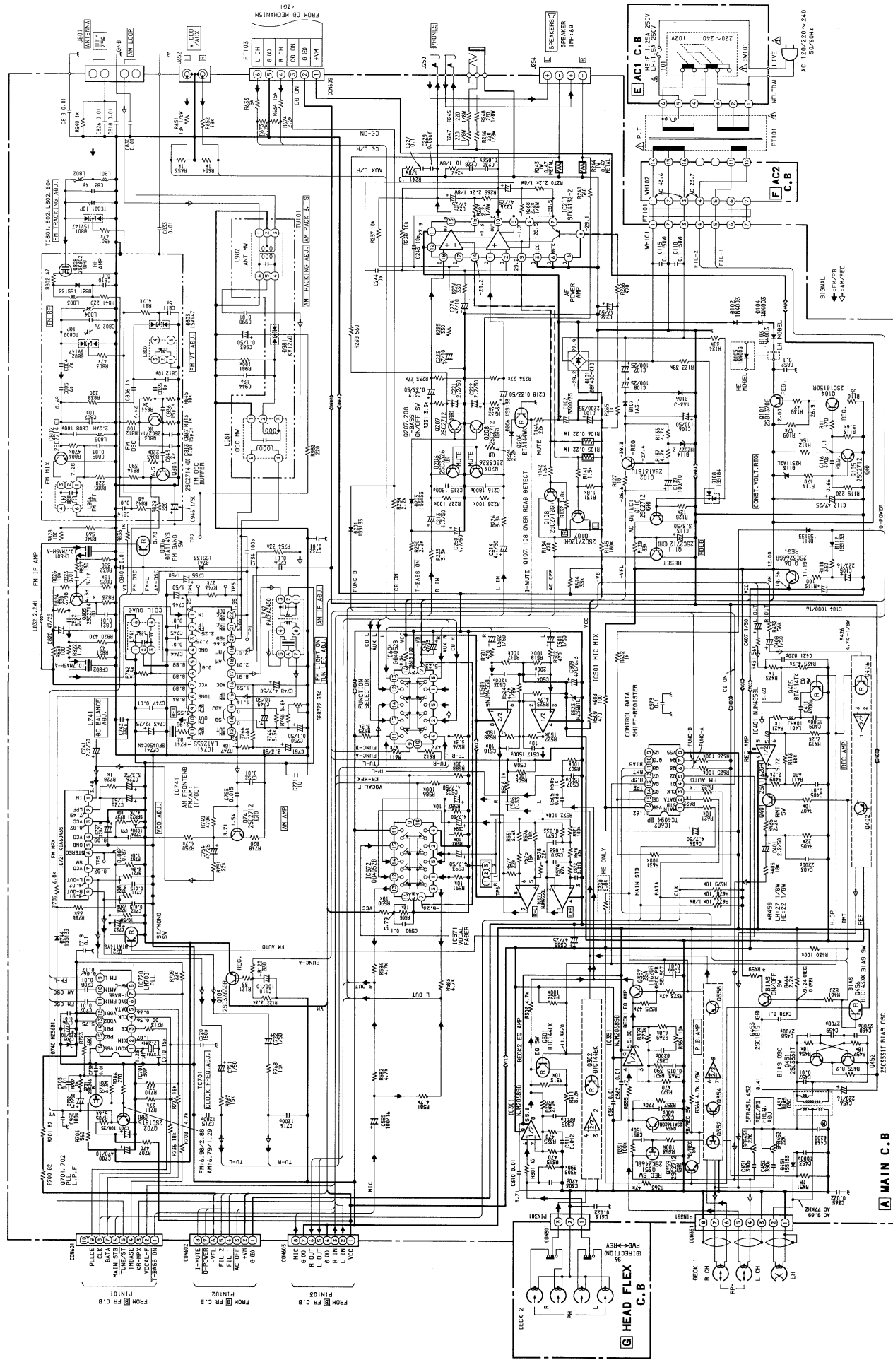
SCHEMATIC DIAGRAM - 3 (MAIN : HM)



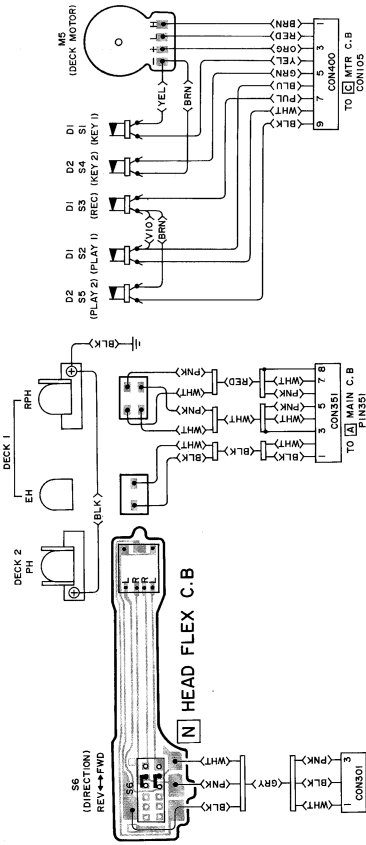
A MAIN C.B. (HELH, U.C)



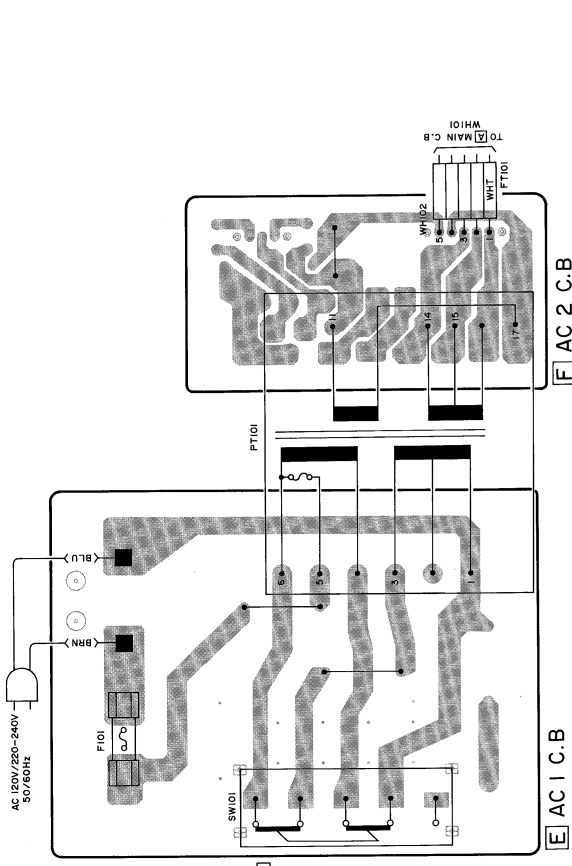
SCHEMATIC DIAGRAM - 4 (MAIN : HE, LH)



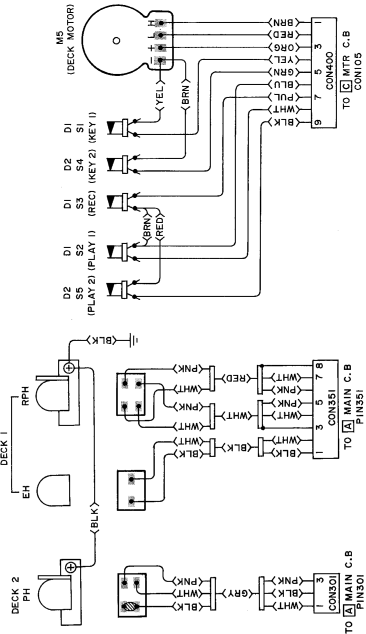
EXCEPT U,C



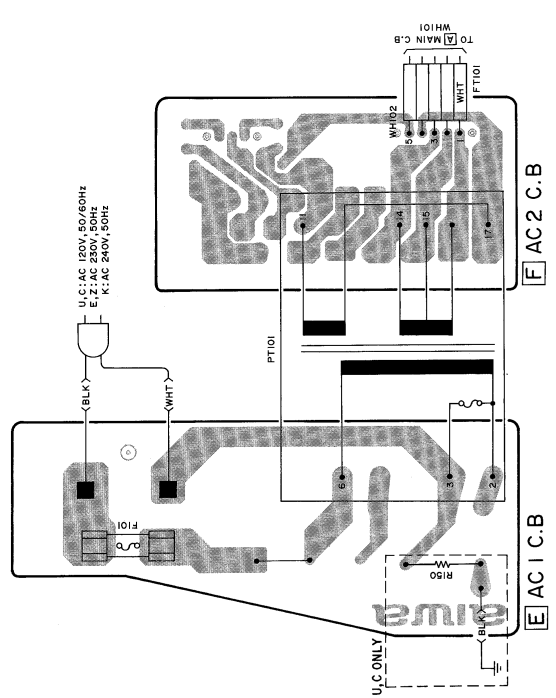
HE, HM, LH MODELS



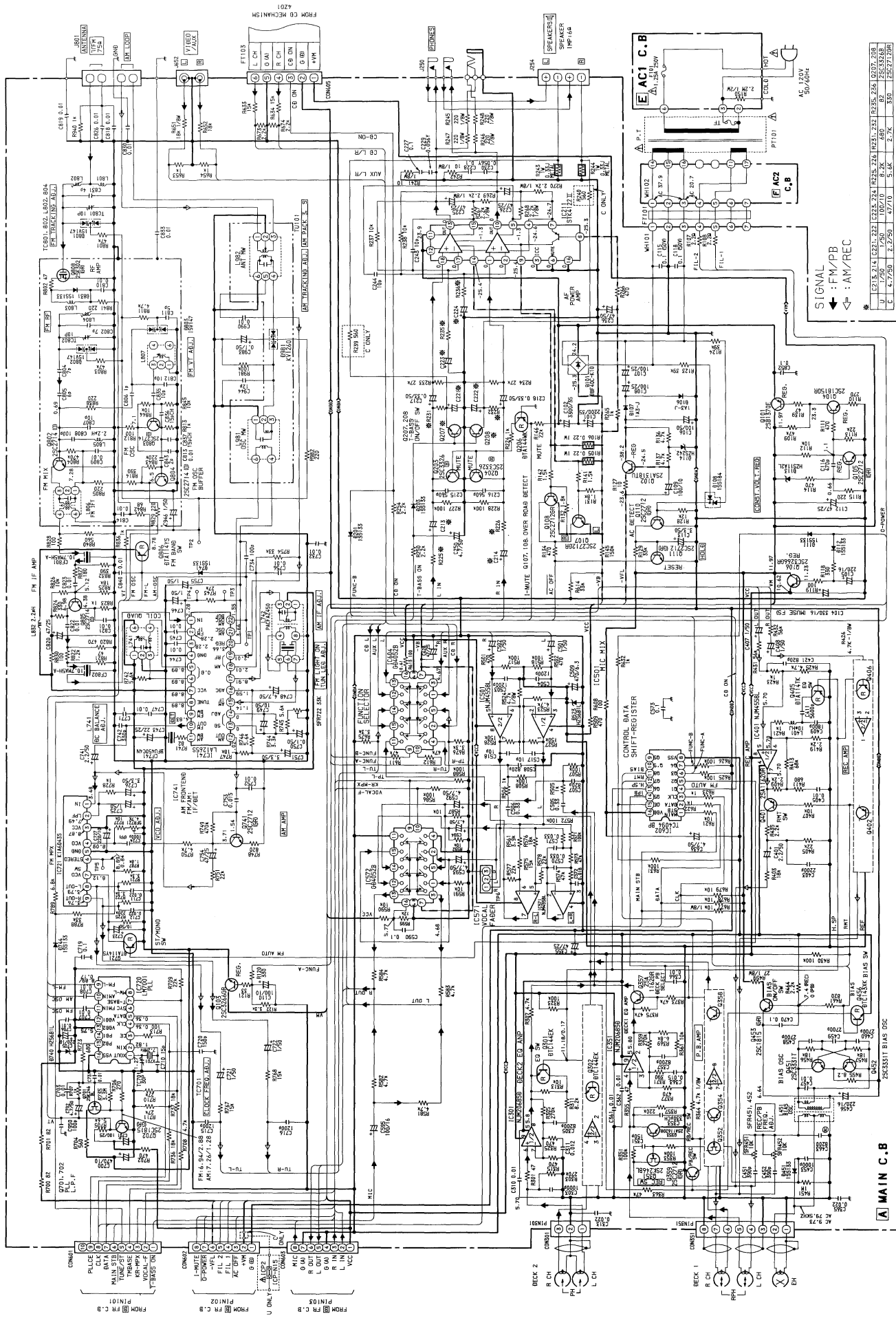
U,C ONLY

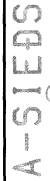
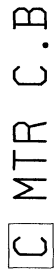


U,C,E,K,Z MODELS

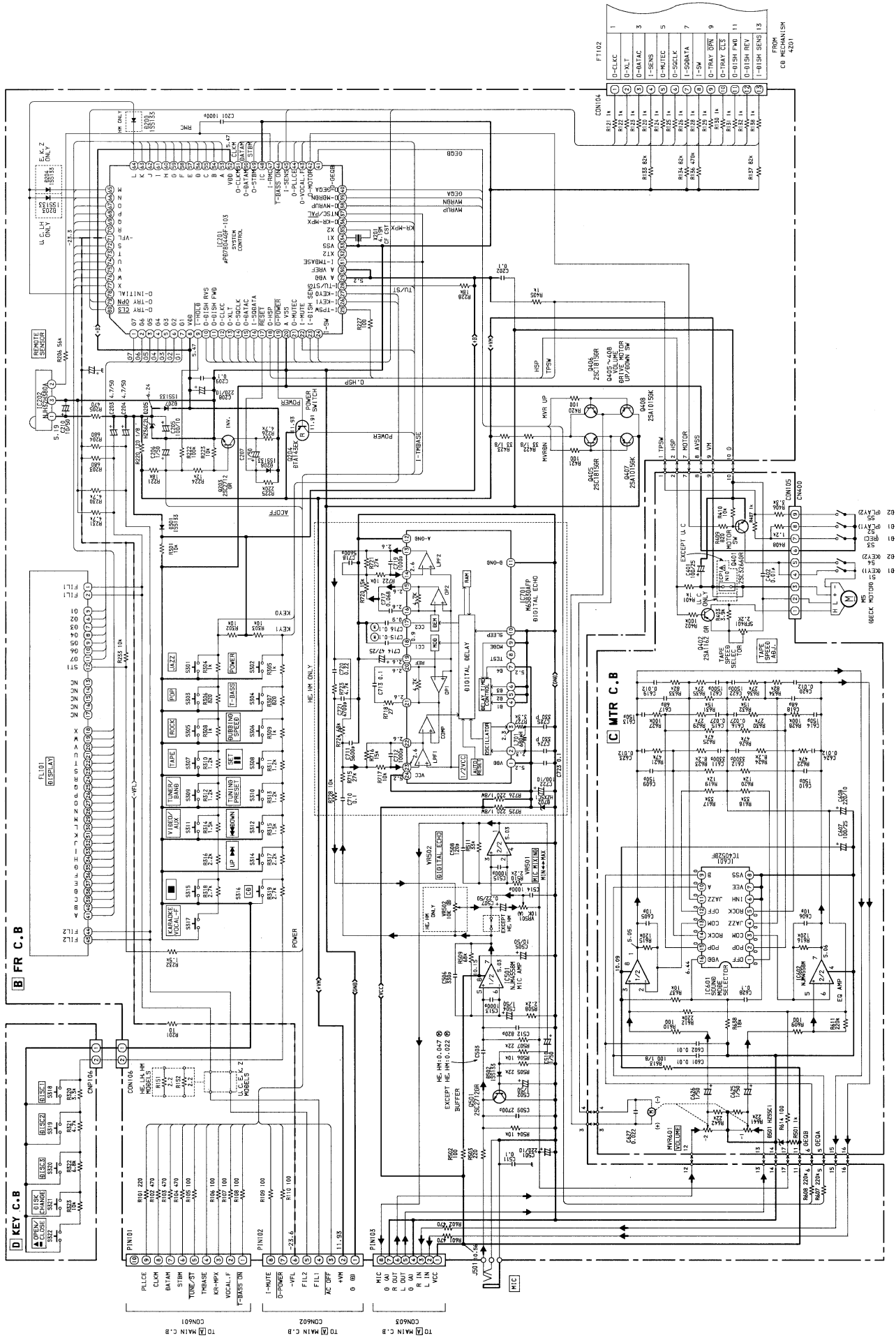


SCHEMATIC DIAGRAM – 5 (MAIN : U, C)





SCHEMATIC DIAGRAM - 6 (FRONT)



IC DESCRIPTION

IC, μ PD78044GF – 103

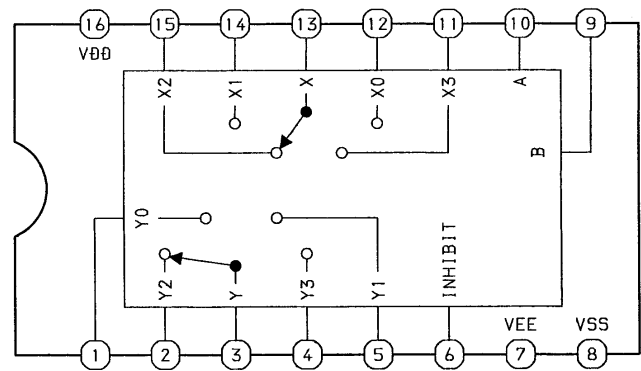
Pin No.	Pin Name	I/O	Description
1~7	G7~G1	O	FL display digit output
8	VDD	—	Connected to +5.5V
9	$\overline{\text{I-HOLD}}$	I	When AC main power is turned off, input goes L which puts processor into HOLD mode. (Clock is stopped and memory is backed up.)
10	O-DISH RVS	O	Turn-table reverse direction output
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	$\overline{\text{NTSC/PAL}}$	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.

P i n N o .	P i n N a m e	I / O	D e s c r i p t i o n
4 7	I - R M C	I	Remote control signal input
4 8	I C	—	Connected to GND
4 9	O - S T B M	O	Strobe signal of the shift register IC602 on the MAIN board
5 0	O - D A T A M	O	Serial data of the PLL IC720 and IC602 on the MAIN board
5 1	O - C L K M	O	Serial clock of the PLL IC720 and IC602 on the MAIN board
5 2	V D D	—	Connected to +5V
5 3 ~ 6 6	A ~ N	O	FL display segment output
6 7、6 8	O、P	I / O	FL display segment output. Initializing scan
6 9、7 0	Q、R	O	FL display segment output
7 1	- V F L	—	Power supply for FL display (-23V)
7 2 ~ 7 7	S ~ X	O	FL display segment output
7 8	O - I N I T I A L	O	processor initializing control
7 9	O - T R Y $\overline{O P N}$	O	CD tray OPEN control. OPEN when "L" is output
8 0	O - T R Y $\overline{C L S}$	O	CD tray CLOSE control CLOSE when "L" is output

IC BLOCK DIAGRAM

IC, TC4052BF

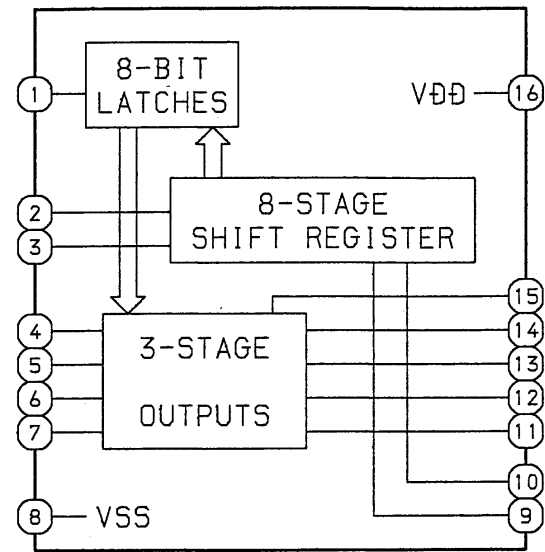
TRUTH TABLE



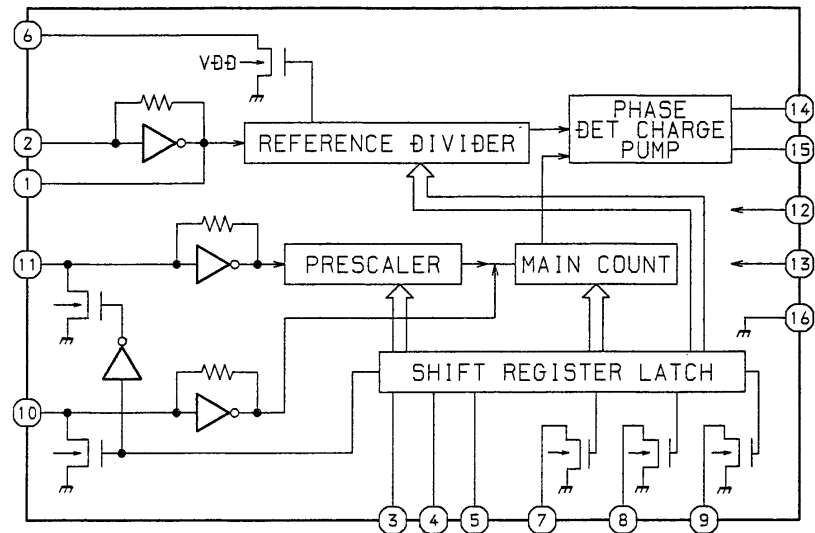
CONTROL INPUTS			ON SWITCH	
INHIBIT	B	A	Y0	X0
L	L	L	Y0	X0
L	L	H	Y1	X1
L	H	L	Y2	X2
L	H	H	Y3	X3
H	X	X	—	—

L: LOW LEVEL
H: HIGH LEVEL
X: IRRELEVANT

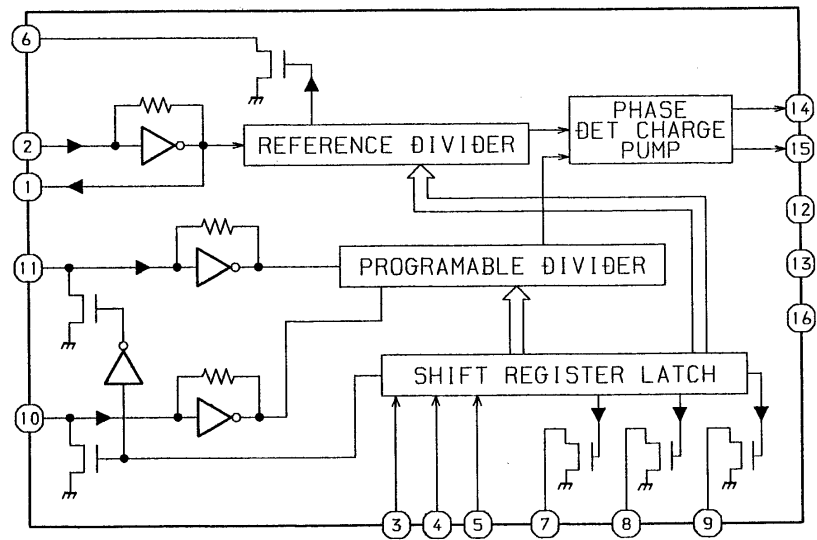
IC, TC4094BP



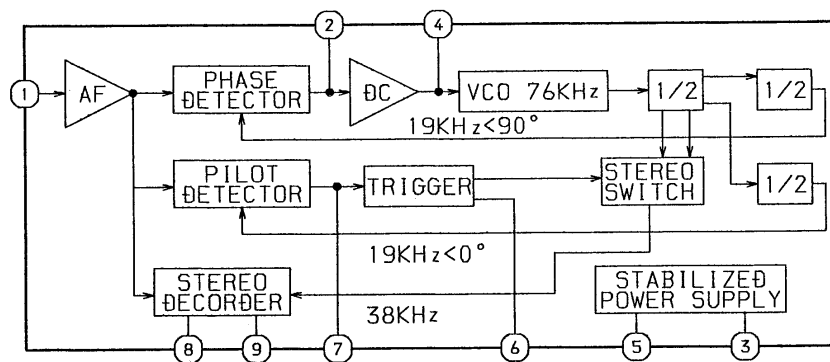
IC, BU2611



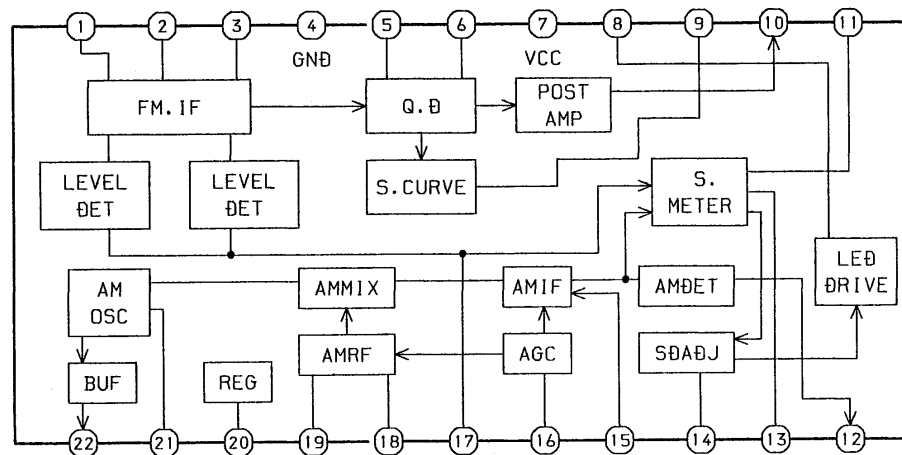
IC, LM7001



IC, KIA6043S

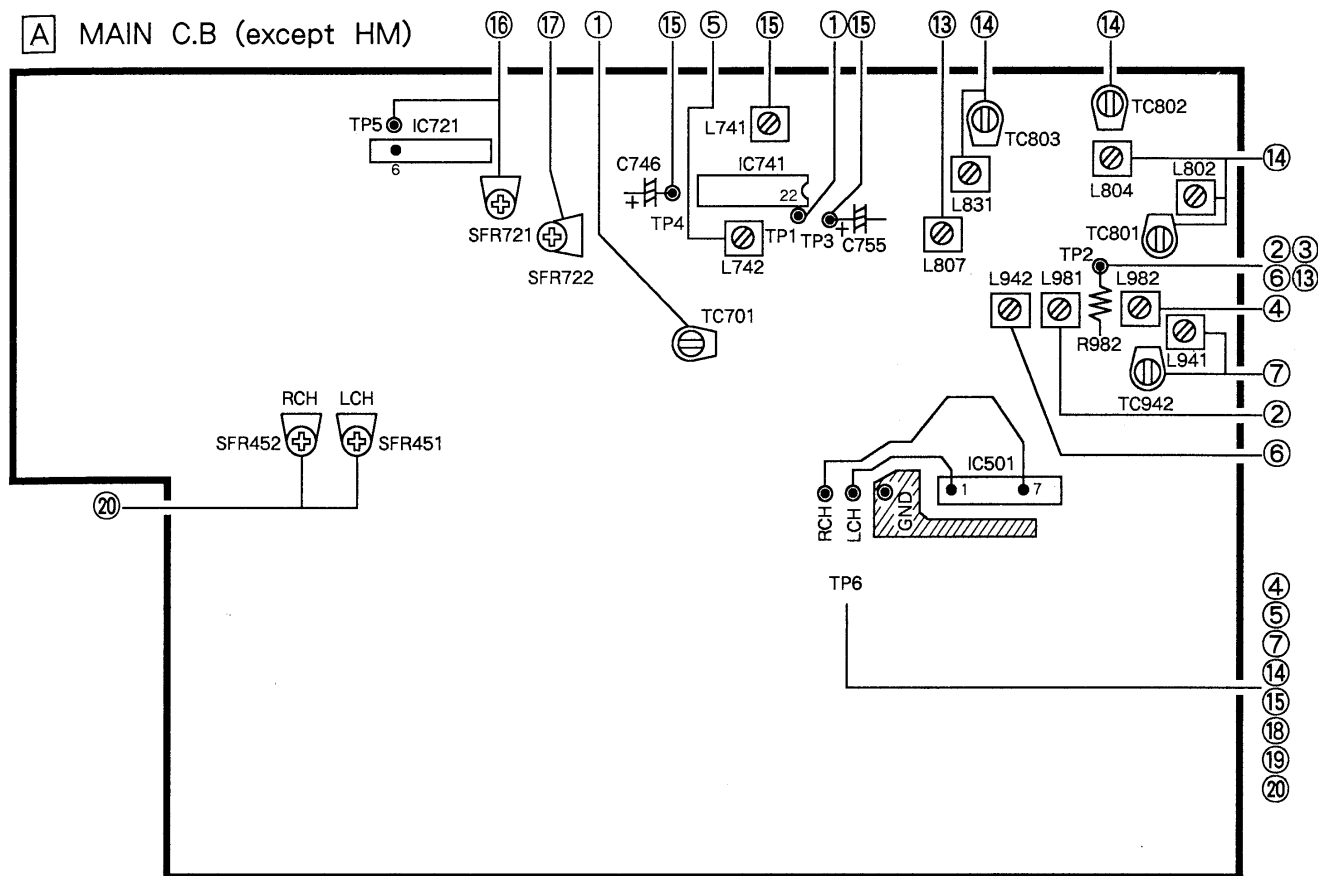


IC, LA1265S

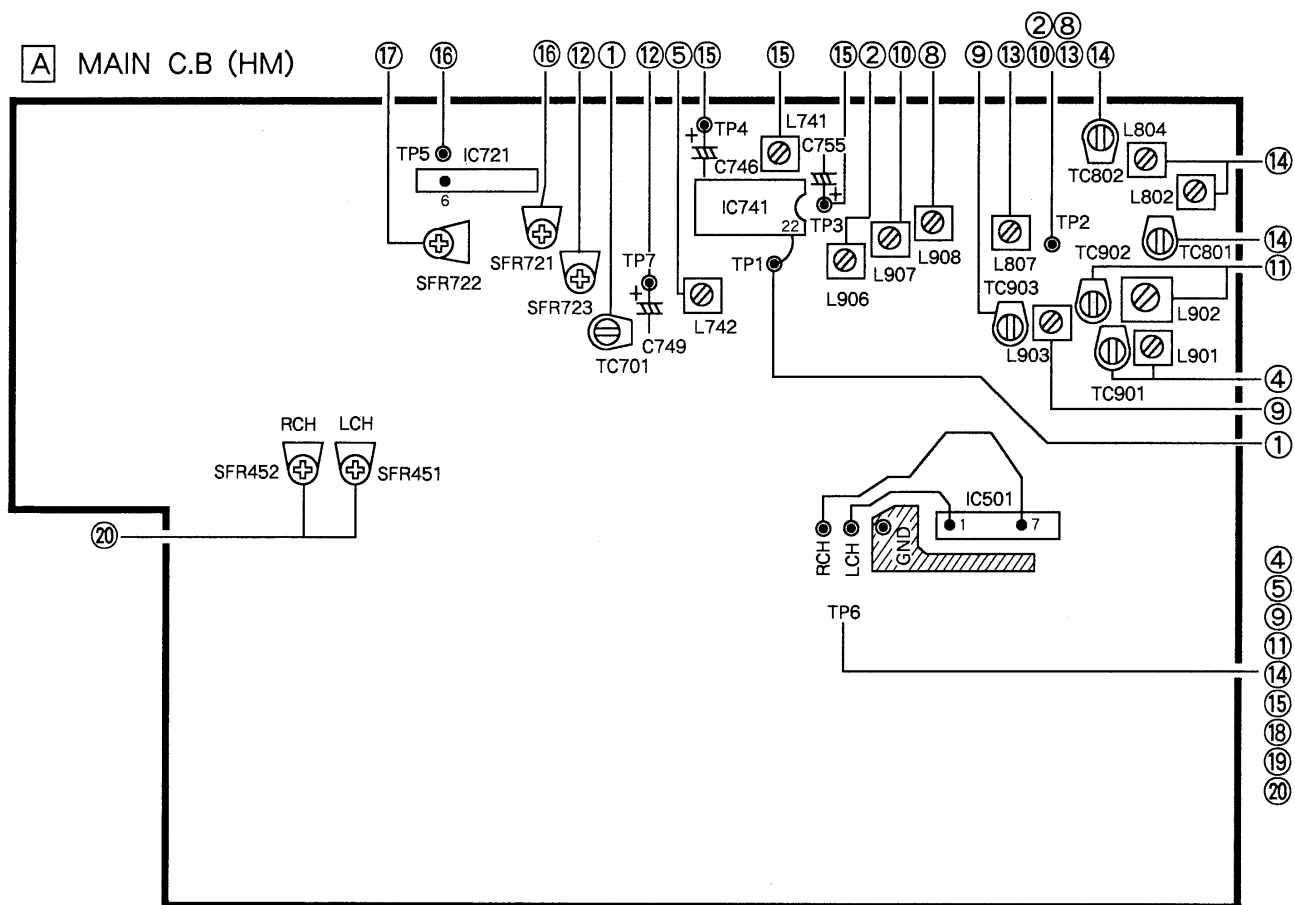


ELECTRICAL ADJUSTMENT (TUNER/TAPE SECTION)

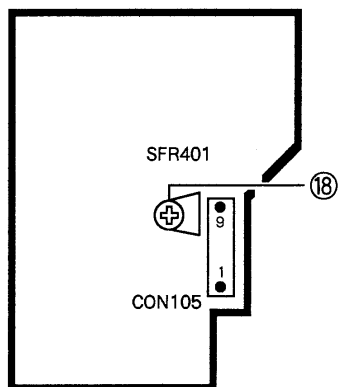
A MAIN C.B (except HM)



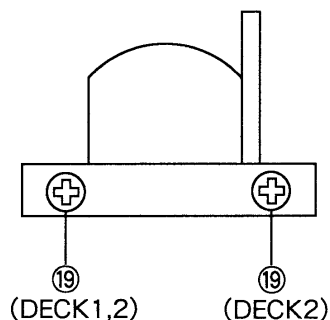
A MAIN C.B (HM)



[E] MTR C.B



PH/RPH



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 $2052\text{kHz} \pm 0.01\text{kHz}$ (HE, E, K, Z), $2160\text{kHz} \pm 0.01\text{kHz}$ (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 $6.8\text{V} \pm 1.0\text{V}$ (HE, E, K, Z), $9.0\text{V} \pm 0.05\text{V}$ (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 $7.0\text{V} \pm 1.0\text{V}$.

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 $53 \pm 6\text{dB}$.

< 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 $1.50\text{V} \pm 0.05\text{V}$.

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 $7.5V \pm 0.05V$.

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 $8.0V \pm 0.05V$.

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 $1.6V \pm 0.05V$.

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 $2.90V \pm 0.05V$ (Except HM), $1.7V \pm 0.05V$ (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 $0V \pm 0.02V$.
Next check that the distortion becomes less than 0.9%.

16. MPX VCO Adjustment

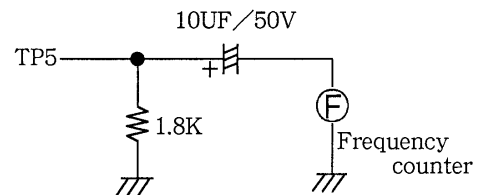
Settings : • Test point : TP5 (IC721 pin 6)

• 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 $38kHz \pm 0.05kHz$.



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 $3000\text{Hz} \pm 10\text{Hz}$.

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 $0\text{dB} \pm 0.5\text{dB}$ with
respect to that of the 1kHz signal.

PRACTICAL SERVICE FIGURE

TUNER SECTION

< FM SECTION >

IHF Sensitivity (EXCEPT Z) : $7\text{dB} \pm 6\text{dB}$ (87.5MHz)
(THD 3%) $7\text{dB} \pm 6\text{dB}$ (98.0MHz)
 $7\text{dB} \pm 6\text{dB}$ (108.0MHz)
(Z MODEL) : $2\text{dB} \pm 6\text{dB}$ (87.5MHz)
 $2\text{dB} \pm 6\text{dB}$ (98.0MHz)
 $2\text{dB} \pm 6\text{dB}$ (108.0MHz)

S/N 50dB Quieting sensitivity :

$32\text{dB} \pm 5\text{dB}$
(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 : $54\text{dB} + 8\text{dB}, -6\text{dB}$ (603kHz)
(S/N 20dB) $53\text{dB} \pm 6\text{dB}$ (999kHz)
 $53\text{dB} \pm 6\text{dB}$ (1404kHz)

Distortion : Less than 1.5 % (999kHz)

Intermediate frequency : 450kHz

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

Sensitivity : $55\text{dB} \pm 7\text{dB}$ (600kHz)
(S/N 20dB) $53\text{dB} \pm 6\text{dB}$ (1000kHz)
 $53\text{dB} \pm 6\text{dB}$ (1400kHz)

Distortion : Less than 1.5 % (1000kHz)

Intermediate frequency : 450kHz

< SW1 SECTION >

Sensitivity : $31\text{dB} + 5\text{dB}, -3\text{dB}$ (3.20MHz)
(S/N 20dB) $28\text{dB} + 5\text{dB}, -3\text{dB}$ (5.00MHz)
 $27\text{dB} + 5\text{dB}, -3\text{dB}$ (7.30MHz)

Distortion : Less than 3.0 % (5.00MHz)

Intermediate frequency : 450kHz

< SW2 SECTION >

Sensitivity : $45\text{dB} \pm 5\text{dB}$ (9.50MHz)
(S/N 20dB) $40\text{dB} \pm 5\text{dB}$ (15.00MHz)
 $31\text{dB} \pm 5\text{dB}$ (21.85MHz)

Distortion : Less than 3.0 % (15.00MHz)

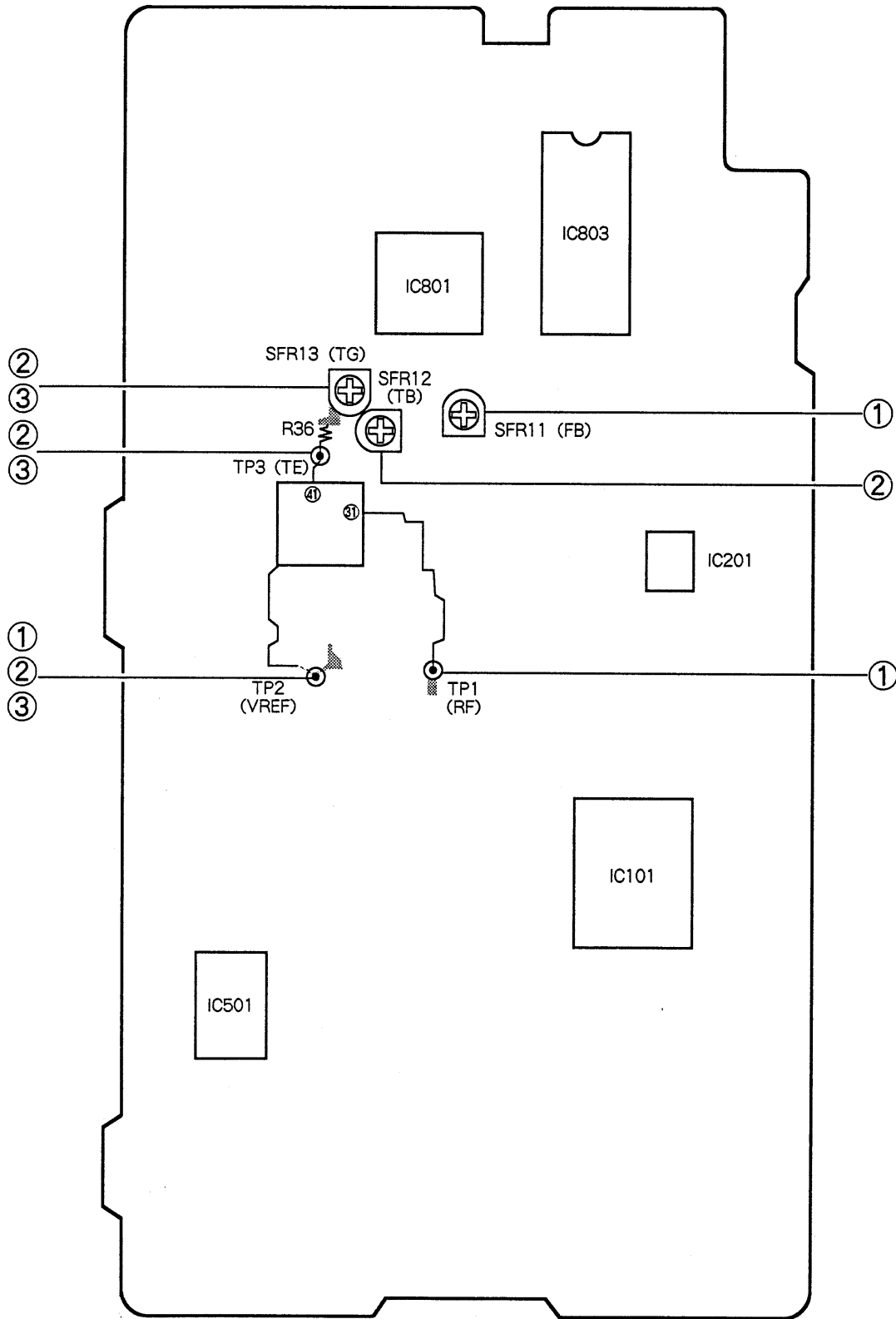
Intermediate frequency : 450kHz

TAPE SECTION

Tape speed : $3000\text{Hz} \pm 3.0\%$
Wow & flutter : Less than 0.4 %
(R.M.S)
Take-up torque : $30 \sim 60\text{g-cm}$ (FWD, REV)
F.F torque : $55 \sim 140\text{g-cm}$
Rew torque : $55 \sim 140\text{g-cm}$
Back tension : $2 \sim 5\text{g-cm}$
PB Output level : $3.0\text{V} \pm 1.5\text{dB}$ (SP OUT)
REC/PB Output level : $2.0\text{V} \pm 2.0\text{dB}$ (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

ELECTRICAL ADJUSTMENT (CD SECTION)

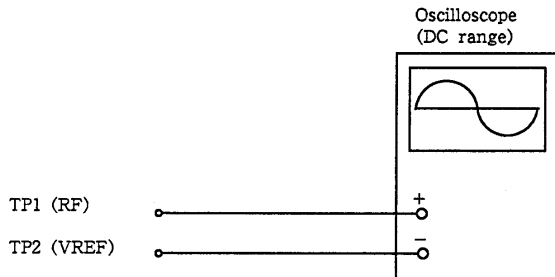
A 3CD C.B



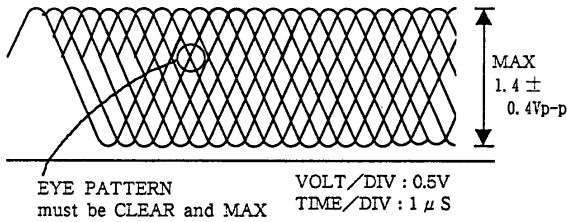
Note: Connect a probe (10:1) of the osilloscope or the frequency counter to a test point.

1. Focus Bias Adjustment

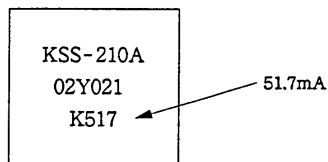
Make the focus bias adjustment when replacing and repairing the optical block.



- 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.

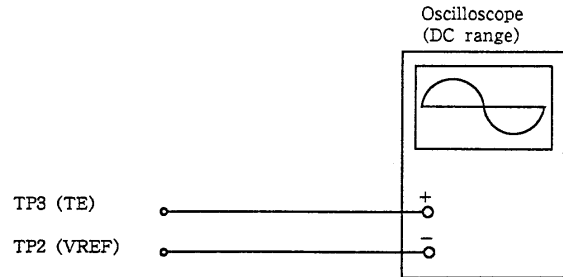


Note: The current of the laser signal can be checked with the voltages on both sides of R28 (10 Ω). The difference for the specified value shown on the level must be within $\pm 6.0\text{mA}$.

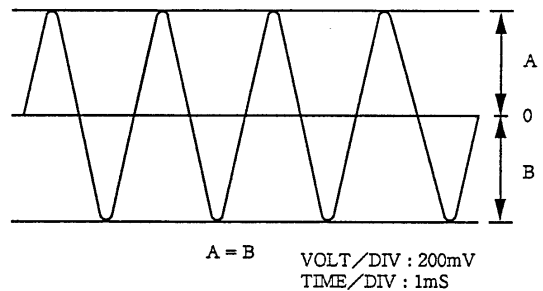


$$\text{Laser current } I_{op} = \frac{\text{Voltage across R28}}{10 \Omega}$$

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. Therefore, do not perform this adjustment.

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

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

When gain adjustment is off, the symptoms below appear.

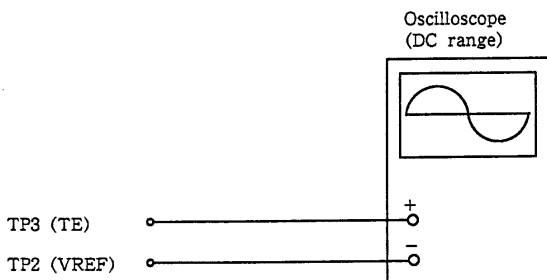
Symptoms \ Gain	(Focus)	Tracking
● The time until music starts becomes longer for STOP→▶PLAY or automatic selection (◀▶ buttons pressed.) (Normally takes about 2 seconds.)	low	low or high
● Music does not start and disc continues to rotate for STOP→▶PLAY or automatic selection (◀▶ buttons pressed.)	—	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 —

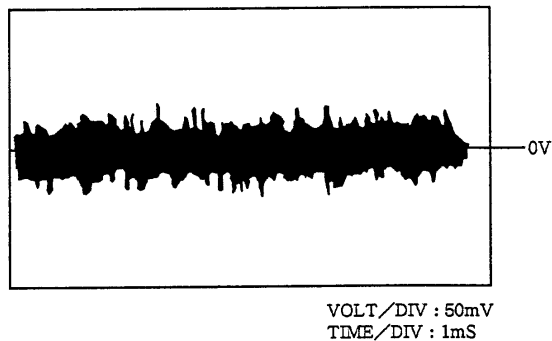
Note : Since exact adjustment cannot be performed, remember the positions of the controls before the performing the adjustment. If the positions after the simple adjustment are only a little different, return the controls to the original position.

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.

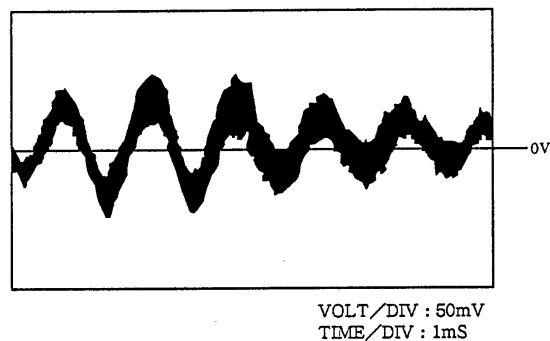
- 4) Adjust SFR13 so that the waveform appears as shown in the figure below. (tracking gain adjustment)



● Incorrect example

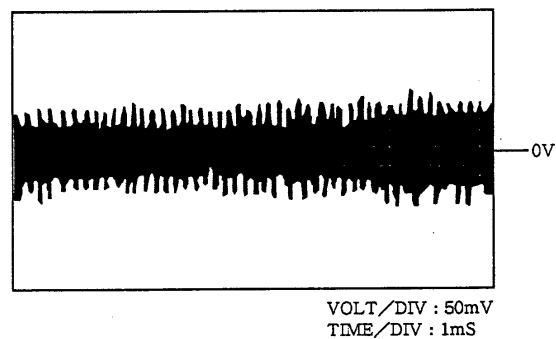
Low tracking gain

The fundamental wave appears as compared with the waveform adjusted.

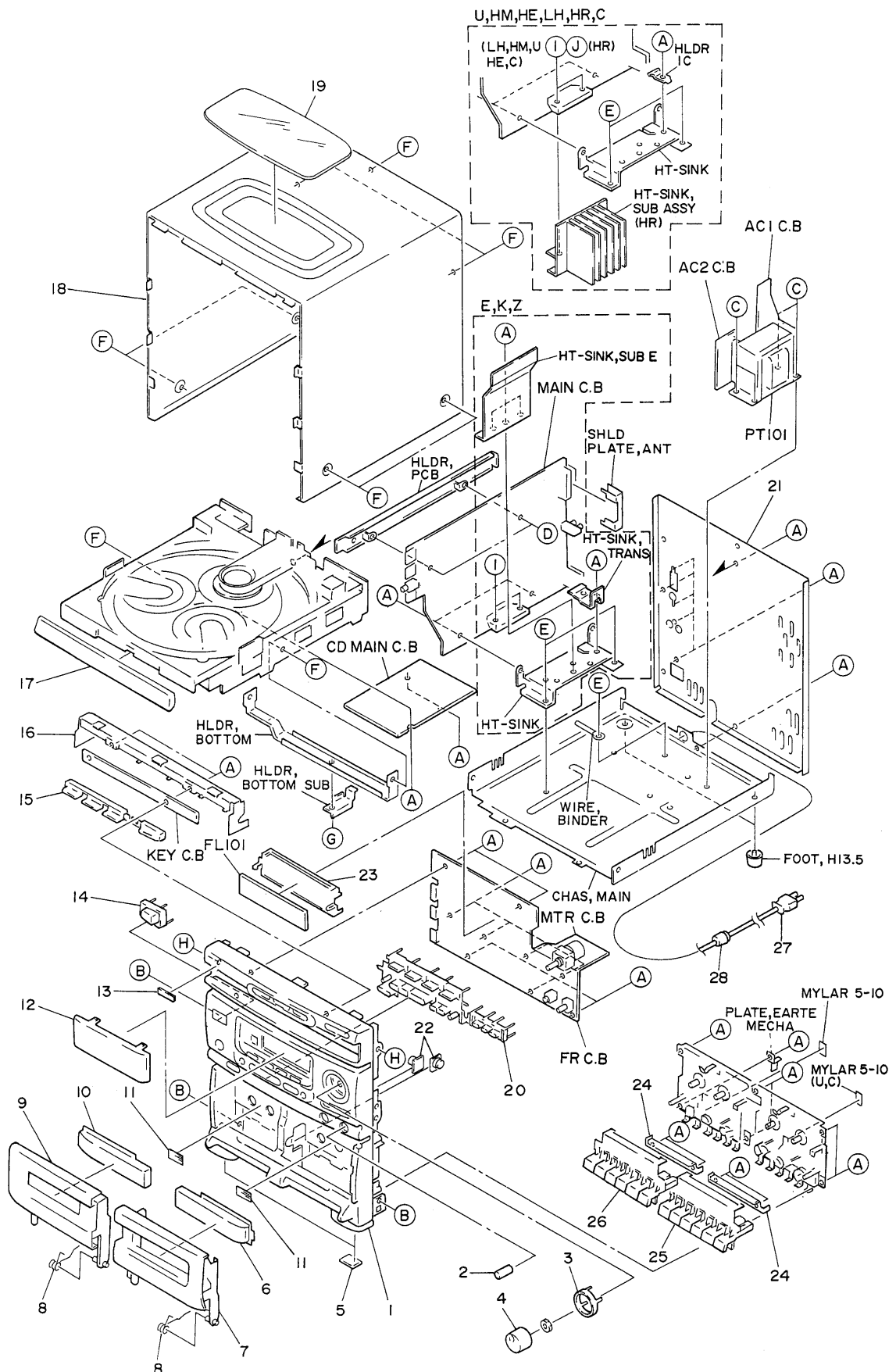


High tracking gain

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



MECHANICAL EXPLODED VIEW 1/1

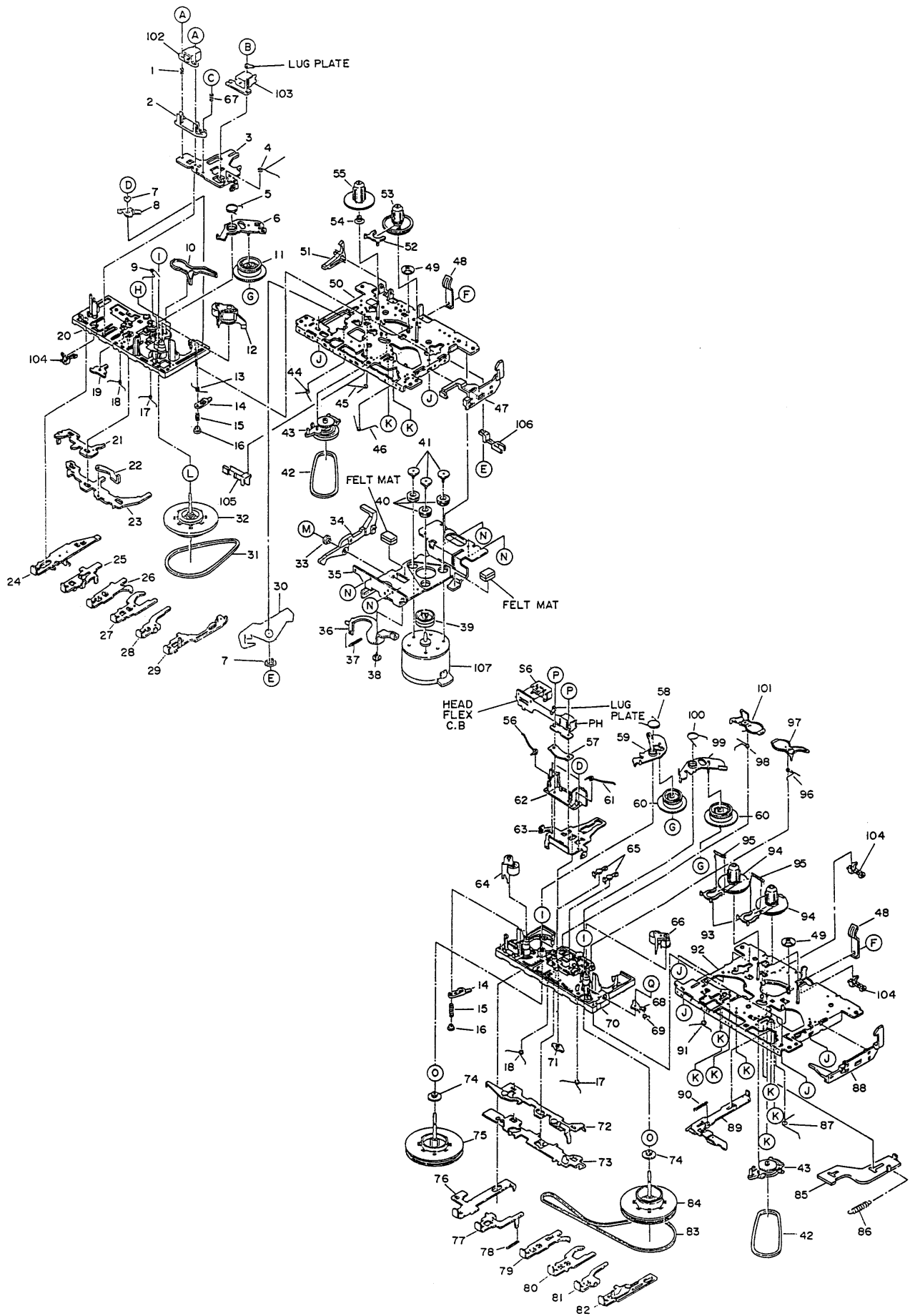


MECHANICAL PARTS LIST 1/1

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	REF. NO	PART NO.	カンリ NO.	DESCRIPTION
1	82-NF7-022-019		CAB, FR E(E, K, Z)	21	82-NF7-032-019		PANEL, REAR(HM)
1	82-NF7-023-019		CAB, FR U(U, C)	21	82-NF7-002-019		PANEL, REAR(HE)
1	82-NF7-041-019		CAB, FR HM(HM)	21	82-NF7-031-019		PANEL, REAR(LH)
1	82-NF7-001-019		CAB, FR HE(HE, HR)	21	82-NF7-030-019		PANEL, REAR(HR)
1	82-NF7-024-019		CAB, FR LH(LH)	21	82-NF7-045-019		PANEL, REAR(C)
2	81-MX4-019-019		KNOB, MIC(E, EE, K, Z)	22	87-063-164-019		OIL-DMPR 80
3	82-NF7-039-019		RING, VOL BLK(E, K, Z, U, C)	23	82-NF7-210-019		GUIDE, FL
3	82-NF7-014-019		RING, VOL(HM, HE, LH, HR)	24	82-NF7-204-019		HLDR, KEY
4	82-NF7-010-019		KNOB, VOL	25	82-NF7-009-019		KEY, CASS 2(EXCEPT U, C)
5	80-VT1-202-019		FELT, 12. 5-15. 5-2	25	82-NF7-008-019		KEY, CASS 1(U, C)
6	82-NF7-013-019		WINDOW, CASS 2	26	82-NF7-019-019		KEY, CASS REC
7	82-NF7-004-019		BOX, CASS 2	△	27 87-050-016-018		AC CORD ASSY, E(E, Z)
8	82-NF7-218-019		SPR-T, CASS	△	27 87-050-029-018		AC CORD ASSY, K 3P(K)
9	82-NF7-003-019		BOX, CASS 1	△	27 87-050-053-019		AC CORD ASSY, U-2(U, C)
10	82-NF7-012-019		WINDOW, CASS 1	△	27 87-050-034-019		AC CORD ASSY, E(HM, HE, HR)
11	81-532-080-019		LBL, CASS-COMPT	△	27 87-034-749-019		AC CORD ASSY, H(LH)
12	82-NF7-011-019		WINDOW, DISPLAY	28	87-085-185-010		BUSHING, AC CORD E(EXCEPT U, LH, C)
13	82-NE8-032-019		BADGE, AIWA 27. 5	28	87-085-184-010		BUSHING, AC CORD D(LH)
14	82-NF7-006-019		KEY, POWER	28	87-085-189-010		BUSHING, AC CORD U(U, C)
15	82-NF7-005-119		KEY, CD	A	87-067-703-019		BVT2+3-10 (W/O SLOT)
16	82-NF5-203-219		HLDR, CD	B	87-591-094-419		Q1T+3-6 GOLD
17	82-NF7-018-019		PANEL, TRAY	C	87-078-019-019		S-SCREW, IT+4-6
18	82-NF5-072-118		CAB, STEEL G 3CD(E, K, Z)	D	87-067-633-019		BVT2+3-8 W/CONVEX
18	82-NF5-064-119		CAB, STEEL 3CD(U, HM, HE, LH, HR, C)	E	87-067-688-019		BVTT+3-6
19	82-NF5-061-019		WINDOW, TOP	F	87-067-641-019		UTT2+3-8 W/O SLOT BLK
20	82-NF7-007-019		KEY, FUN	G	87-067-716-019		BVTT+3-6 BLK
21	82-NF7-026-019		PANEL, REAR(E)	H	87-721-097-419		QT2+3-12 GLD
21	82-NF7-027-019		PANEL, REAR(K)	I	87-067-581-019		BVT2+3-15 W/O SLOT(EXCEPT HR)
21	82-NF7-028-019		PANEL, REAR(Z)	J	87-067-698-019		BVT2+3-18 W/O SLOT(HR)
21	82-NF7-025-019		PANEL, REAR(U)				

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

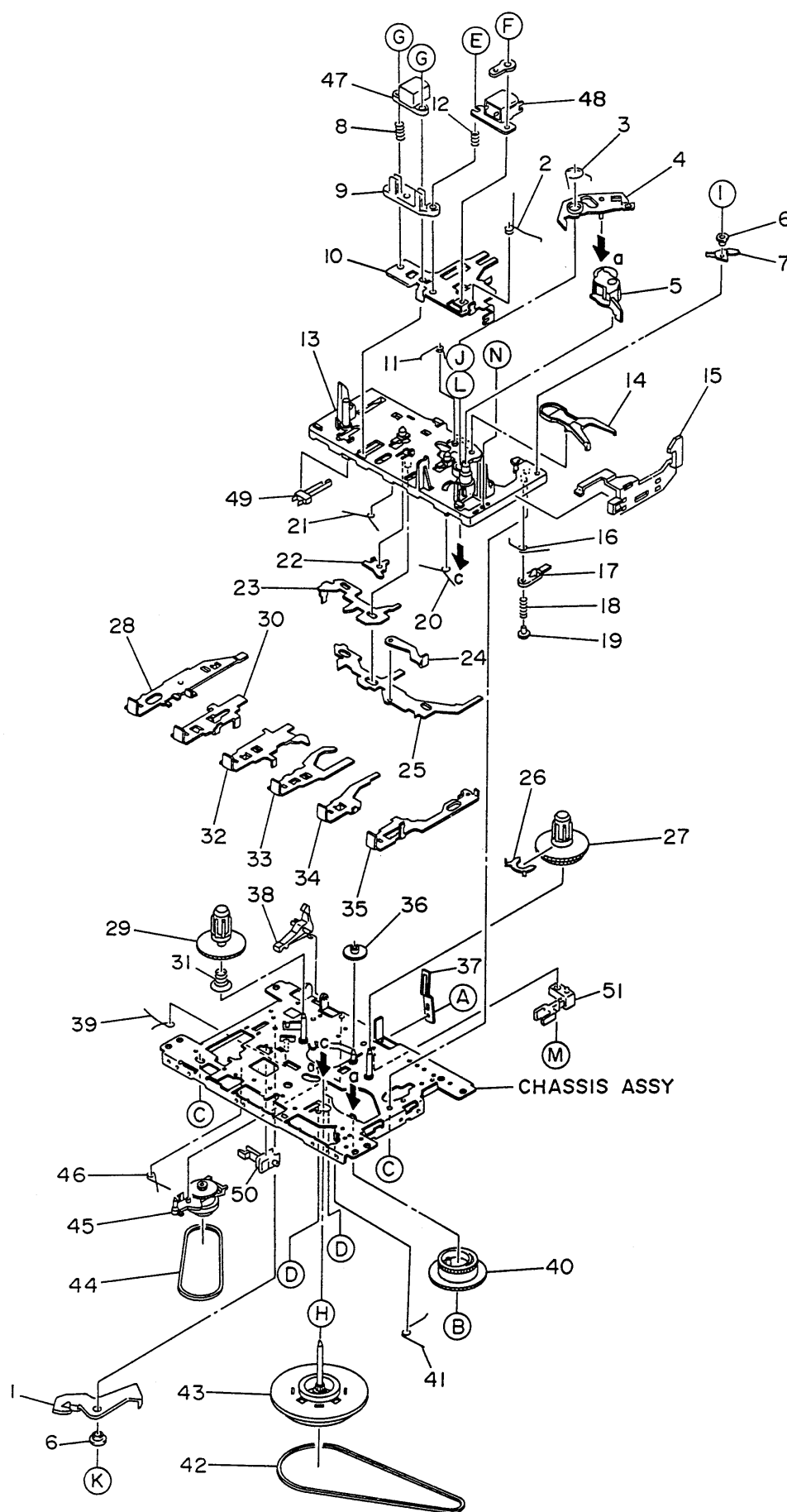


TAPE MECHANISM PARTS LIST 1/1 (CX - SN340/SN345/N340)

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	REF. NO	PART NO.	カンリ NO.	DESCRIPTION
1	S1-821-030-080		EH, SPRING	66	S1-959-043-030		RINCH ROLLER ARM(F) ASSY
2	S1-921-030-060		HEAD BASE	67	S1-821-030-070		AZIMUTH SPRING
3	S1-921-030-140		HEAD PANEL	68	S1-959-140-090		ROTARY ARM
4	S1-921-030-090		PANEL P SPR	69	S1-959-140-270		ROTARY SPRING
5	S1-921-260-050		GEAR PLATE SPRING	70	S1-959-143-010		BASE ASSY
6	S1-921-265-020		GEAR PLATE ASSY	71	S1-959-140-230		PR STOPPER
7	S1-921-140-370		P ARM COLLAR	72	S1-959-145-010		ACXTUATOR ASSY
8	S1-921-140-340		P ARM	73	S1-959-140-260		SLIDE PLATE
9	S1-921-141-8A0		M CONTROL SPRING	74	S1-921-090-100		FL GEAR
10	S1-921-260-4A0		SENSING LEVER	75	S1-959-093-040		FLYWHEEL (R) ASSY
11	S1-921-260-020		CAM GEAR	76	S1-959-140-170		MODE BUTTON LEVER(S)
12	S1-921-043-100		PINCH ROLLER ARM ASSY	77	S1-959-140-160		PLAY BUTTON LEVER(S)
13	S1-921-141-3A0		P CONTROL SPRING	78	S1-959-030-020		SPR, PLATE
14	S1-921-140-820		PAUSE LEVER(F)	79	S1-959-140-150		FF BUTTON LEVER(RS)
15	S1-921-140-120		PAUSE LEVER SPRING	80	S1-959-140-140		FF BUTTON LEVER(FS)
16	S1-921-140-110		PAUSE STOPPER	81	S1-959-140-130		STOP BUTTON LEVER(S)
17	S1-921-140-150		BUTTON LEVER SPRING (B)	82	S1-959-143-030		PROG BUTTON LEVER(S) ASY
18	S1-921-140-140		BUTTON LEVER SPRING (A)	83	S1-851-140-170		MAIN BELT
19	S1-921-140-200		PR STOPPER	84	S1-959-093-050		FLYWHEEL (F) ASSY
20	S1-921-143-180		BASE ASSY	85	S1-959-150-020		MUTING PLATE SP
21	S1-921-140-090		SWITCH ACTUATOR	86	S1-959-150-010		MUTING PLATE
22	S1-921-140-640		E KICK LEVER	87	S1-959-140-200		SPR, EV ACTUATOR
23	S1-921-140-080		PUSH BUTTON ACTUATOR	88	S1-959-130-020		EJECT SLIDE LEVER(S)
24	S1-921-140-220		REC BUTTON LEVER	89	S1-959-010-020		MAIN PLATE
25	S1-921-140-230		PLAY BUTTON LEVER	90	S1-959-010-030		SPR, MAIN PLATE
26	S1-921-140-240		REW BUTTON LEVER	91	S1-959-140-220		SPR, PM BUTTON LEVER
27	S1-921-140-250		FF BUTTON LEVER	92	S1-959-015-010		CHASSIS ASSY
28	S1-921-140-260		STOP BUTTON LEVER	93	S1-959-050-010		SENSOR
29	S1-921-140-610		PAUSE BUTTON LEVER	94	S1-921-053-090		TAKE UP REEL ASSY
30	S1-921-020-010		REC ARM	95	S1-959-050-040		SPRING
31	S1-821-121-730		MAIN BELT	96	S1-959-260-090		M CONTROL SPR(F)
32	S1-921-093-050		FLYWHEEL ASSY	97	S1-959-260-060		SENSING LEVER(F)
33	S1-821-120-650		COLLAR SCREW(B)	98	S1-959-260-010		M CONTROL SPR(R)
34	S1-921-120-250		P KICK LEVER(B)	99	S1-959-265-010		GEAR PLATE (F) ASSY
35	S1-851-140-070		MOTOR BRACKET	100	S1-959-260-040		GEAR PLATE SPR(F)
36	S1-851-140-060		P KICK LEVER(A)	101	S1-959-260-070		SENSING LEVER(R)
37	S1-851-140-040		SPR P KICK LEVER	102	S6-202-140-190		E HEAD LE15B-C1
38	S1-821-120-230		PK, COLLAR SCREW(A)	103	S6-201-010-750		R. P. HEAD RP-7442BS-0951
39	S1-959-120-010		MOTOR PULLEY	104	S6-401-011-490		LEAF SW MSW-1541T
40	S1-821-120-660		MOTOR RUBBER	105	S6-401-010-380		LEAF SWITCH MSW-1275
41	S1-851-140-180		MOTOR COLLAR SCREW	106	S6-401-011-610		LEAF SW MSW-17820-MVE1
42	S1-821-070-110		RF, BELT	107	S6-002-030-290		MOTOR EG-530YD-2BH
43	S1-959-073-010		RF CLUTCH ASSY	A	S9-P17-205-710		SCREW, M2-7. 5
44	S1-921-140-170		P. S. LEVER SPRING	B	S9-B01-200-310		SCREW, +2-3
45	S1-921-140-210		RECBUTTON LEVER SPR	C	S9-F08-200-710		SCREW, M2-7
46	S1-921-140-160		E ACTUATOR SPRING	D	S9-C04-202-530		S-SCREW, TAP 2-2. 5
47	S1-921-130-030		EJECT SLIDE LEVER	E	S9-P04-200-500		SCREW, TAP M2-5
48	S1-829-100-010		SPR, PACK	F	S9-P04-200-310		SCREW, TAP M2-3
49	S1-821-100-700		FF GEAR	G	S9-W06-300-030		HLW CUT 1. 2-3. 8-0. 3
50	S1-921-145-010		CHASSIS ASSY	H	S9-P05-200-610		S-SCREW, TAP 2-6
51	S1-821-100-690		REC SAFETY LEVER	I	S9-W06-500-020		HLW CUT 1. 45-3. 8-0. 5
52	S1-921-050-060		SENSOR	J	S9-B10-200-510		SCREW, TAP 2-5
53	S1-921-053-030		TAKE UP REEL ASSY	K	S9-C07-204-510		SCREW, TAP 2-4. 5
54	S1-821-100-990		SPR, BACK TENSION	L	S9-W01-400-100		PW 2-3. 5-0. 4
55	S1-921-055-040		SUPPLY REEL ASSY	M	S9-P04-200-610		SCREW, TAP M2-6
56	S1-959-040-040		SPR, P. ROLLER ARM(R)	N	S9-P04-200-410		C TAPPING SCREW M2-4
57	S1-851-040-050		PLATE HEAD SPR	O	S9-W05-300-100		HLW 2. 1-3. 5-0. 3
58	S1-959-260-050		GEAR PLATE SPR(R)	P	S9-P14-200-630		S-SCREW, M2-6 BLK
59	S1-959-265-020		GEAR PLATE (R) ASSY	Q	S9-E01-001-520		E RING S1. 5
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				

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

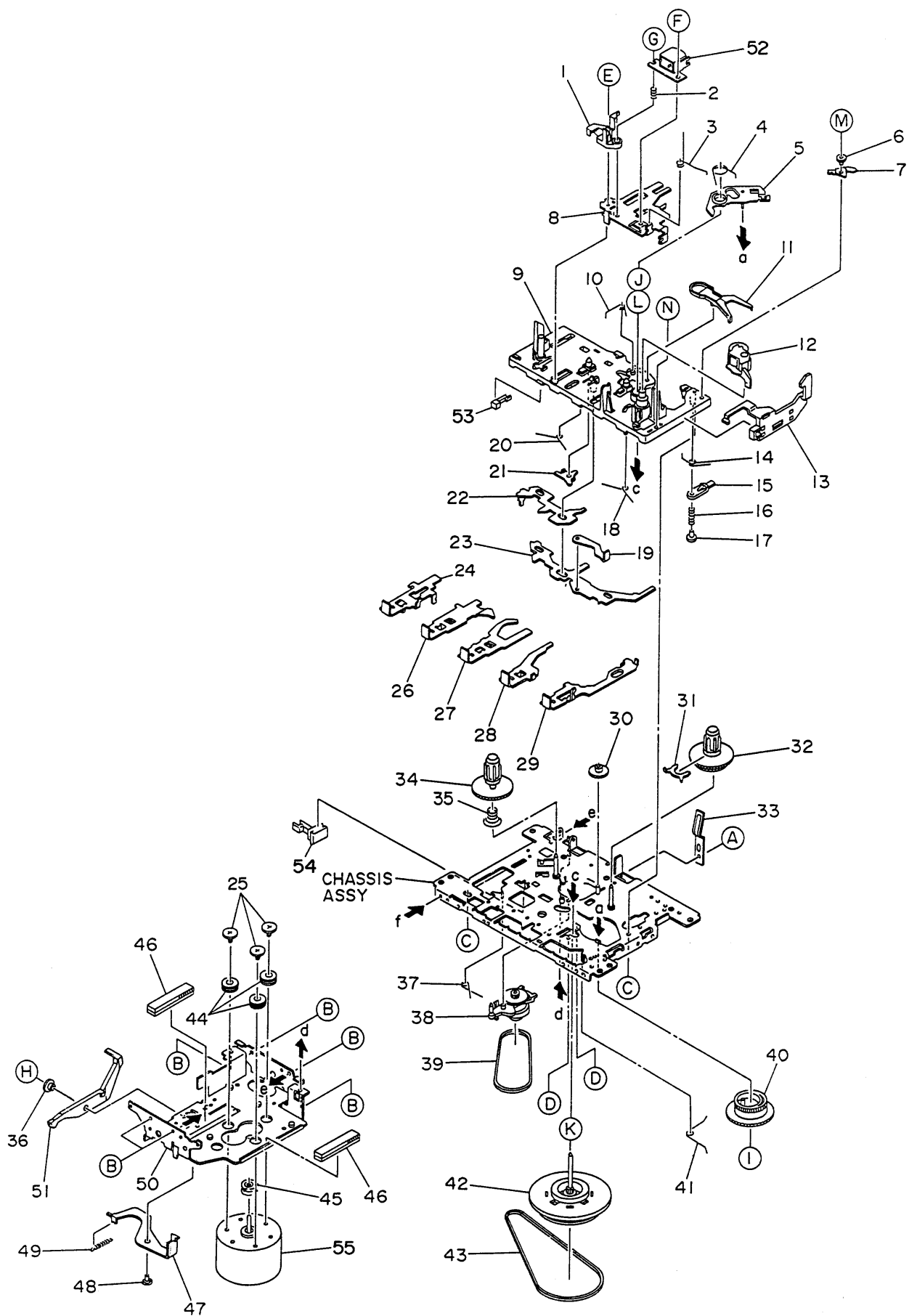


TAPE MECHANISM PARTS LIST 1/2 (CX - N3200)

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	REF. NO	PART NO.	カンリ NO.	DESCRIPTION
1	S1-921-020-010		REC ARM	36	S1-821-100-700		FF GEAR
2	S1-921-030-090		PANEL P SPRING	37	S1-829-100-010		PACK SPRING
3	S1-921-260-050		GEAR PLATE SPRING	38	S1-821-100-690		RECORD SAFETY LEVER
4	S1-921-265-020		GEAR PLATE ASSY	39	S1-921-140-210		REC BUTTON LEVER SPRING
5	S1-921-043-100		PINCH ROLLER ARM ASSY	40	S1-921-260-020		CAM GEAR
6	S1-921-140-370		P ARM COLLER	41	S1-921-140-160		E ACTUATOR SPRING
7	S1-921-140-340		P ARM	42	S1-921-090-240		MAIN BELT
8	S1-821-030-080		EH SPRING	43	S1-921-093-030		FLYWHEEL ASSY
9	S1-921-030-060		HEAD BASE	44	S1-821-070-110		RF BELT
10	S1-921-030-140		HEAD PANEL	45	S1-921-073-040		RF CLUTCH ASSY
11	S1-921-141-8A0		M CONTROL SPRING	46	S1-921-140-170		P. S. LEVER SPRING
12	S1-821-030-070		AZIMUTH SPRING	47	S6-202-140-190		E HEAD
13	S1-921-143-180		BASE ASSY	48	S6-201-010-750		R. P. HEAD
14	S1-921-260-4A0		SENSING LEVER	49	S6-401-011-490		LEAF SW MSW-1541T
15	S1-921-130-020		EJECT SLIDE LEVER	50	S6-401-011-610		LEAF SW MSW-17820MVE1
16	S1-921-141-3A0		P CONTROL SPRING	51	S6-401-010-380		LEAF SW MSW-1275
17	S1-921-140-550		PAUSE LEVER(E)	A	S9-179-000-000		C TAP SCREW M2-3
18	S1-921-140-120		PAUSE LEVER SPRING	B	S9-422-000-000		P WASHER CUT 12-3. 8-0. 3
19	S1-921-140-110		PAUSE STOPPER	C	S9-679-000-000		P TAP SCREW M2-5
20	S1-921-140-150		BUTTON LEVER SPRING(B)	D	S9-999-180-090		TAP SCREW M2-4. 5
21	S1-921-140-140		BUTTON LEVER SPRING(A)	E	S9-922-000-000		AZIMUTH SCREW M2-8
22	S1-921-140-200		PR STOPPER	F	S9-115-000-000		+ BIND SCREW M2-3
23	S1-921-140-090		SWITCH ACTUATOR	G	S9-821-000-000		+CAP SCREW M2-8
24	S1-921-140-640		E KICK LEVER	H	S9-882-000-000		P WASHER 2-3. 5-0. 4
25	S1-921-140-080		PUSH BUTTON ACTUATOR	I	S9-999-200-410		P TAP SCREW M2-3
26	S1-921-050-060		SENSOR	J	S9-999-030-130		P WASHER CUT 1. 45-3. 8-0.
27	S1-921-053-030		TAKE UP REEL ASSY	K	S9-180-000-000		C TAP SCREW M2-4
28	S1-921-140-220		REC BUTTON LEVER	L	S9-999-000-030		P WASHER 2. 1-4-0. 13
29	S1-921-053-040		SUPPLY REEL ASSY	M	S9-181-000-000		C TAP SCREW M2-5
30	S1-921-140-230		PLAY BUTTON LEVER	N	S9-P05-200-610		S TAPPING SCREW M2-6
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				

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



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

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REF. NO	PART NO.	カンリ NO.	DESCRIPTION	REF. NO	PART NO.	カンリ NO.	DESCRIPTION
1	S1-921-030-4A0		HEAD BASE	36	S1-821-120-650		COLLER B
2	S1-821-030-070		AZIMUTH SPRING	37	S1-921-140-170		P. S. LEVER SPRING
3	S1-921-030-090		PANEL P SPRING	38	S1-921-073-040		RF CLUTCH ASSY
4	S1-921-260-050		GEAR PLATE SPRING	39	S1-821-070-110		RF BELT
5	S1-921-265-020		GEAR PLATE ASSY	40	S1-921-260-020		CAM GEAR
6	S1-921-140-370		P ARM COLLER	41	S1-921-140-160		E ACTUATOR SPRING
7	S1-921-140-340		P ARM	42	S1-921-093-040		FLYWHEEL ASSY
8	S1-921-030-110		HEAD PANEL	43	S1-921-090-240		MAIN BELT
9	S1-921-143-170		BASE ASSY	44	S1-820-130-060		MOTOR RUBBER
10	S1-921-141-8A0		M CONTROL SPRING	45	S1-921-120-130		MOTOR PULLEY
11	S1-921-260-4A0		SENSING LEVER	46	S1-921-120-120		ANTI VIBR FELT MAT
12	S1-921-043-100		PINCH ROLLER ARM ASSY	47	S1-821-120-680		P KICK LEVER (A)
13	S1-921-130-020		EJECT SLIDE LEVER	48	S1-821-120-230		PK COLLER SCREW A
14	S1-921-141-3A0		P CONTROL SPRING	49	S1-821-120-250		P KICK LEVER SPRING
15	S1-921-140-550		PAUSE LEVER(E)	50	S1-921-120-110		MOTOR BRACKET
16	S1-921-140-120		PAUSE LEVER SPRING	51	S1-921-120-090		P KICK LEVER
17	S1-921-140-110		PAUSE STOPPER	52	S6-201-010-750		R. P. HEAD
18	S1-921-140-150		BUTTON LEVER SPRING(B)	53	S6-401-011-490		LEAF SW MSW-1541T
19	S1-821-011-590		E KICK LEVER	54	S6-401-011-610		LEAF SW MSW-17820MVE1
20	S1-921-140-140		BUTTON LEVER SPRING(A)	55	S6-002-030-290		MOTOR EG530YD-2BH
21	S1-921-140-200		PR STOPPER	A	S9-179-000-000		C TAP SCREW M2-3
22	S1-921-140-090		SWITCH ACTUATOR	B	S9-180-000-000		C TAP SCREW M2-4
23	S1-921-140-080		PUSH BUTTON ACTUATOR	C	S9-679-000-000		P TAP SCREW M2-5
24	S1-921-140-230		PLAY BUTTON LEVER	D	S9-999-180-090		TAP SCREW M2-4. 5
25	S1-821-120-020		MOTOR COLLER SCREW	E	S9-004-000-000		SCREW M2-6
26	S1-921-140-240		REW BUTTON LEVER	F	S9-115-000-000		+ BIND SCREW M2-3
27	S1-921-140-250		FF BUTTON LEVER	G	S9-922-000-000		AZIMUTH SCREW M2-8
28	S1-921-140-260		STOP BUTTON LEVER	H	S9-182-000-000		C TAP SCREW M2-6
29	S1-921-140-610		PAUSE BUTTON LEVER	I	S9-422-000-000		P WASHER CUT 12-3. 8-0. 3
30	S1-821-100-700		FF GEAR	J	S9-999-030-130		P WASHER CUT 1. 45-3. 8-0.
31	S1-921-050-060		SENER	K	S9-882-000-000		P WASHER 2-3. 5-0. 4
32	S1-921-053-030		TAKE UP REEL ASSY	L	S9-999-000-030		P WASHER2. 1-4-0. 13
33	S1-829-100-010		PACK SPRING	M	S9-999-200-410		P TAP SCREW M2-3
34	S1-921-053-040		SUPPLY REEL ASSY	N	S9-P05-200-610		S TAPPING SCREWM2-6
35	S1-821-100-990		BACK TENSION SPRING				

■ ACCESSORIES/PACKAGE LIST

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

REF. NO	PART NO.	カンリ NO.	DESCRIPTION
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, GF1-(M)<E, Z>
1	82-NF7-902-019		IB, E(GF1)<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, 1R39<LH, K>
3	87-009-725-019		PLUG, ADPTR, 1R40<HE, HM, E, Z>
4	87-006-240-019		AM LOOP ANT CON(K0)<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。
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REF. NO	PART NO.	カンリ NO.	DESCRIPTION	REF. NO	PART NO.	カンリ NO.	DESCRIPTION
=== SX-N3200/N340 ===				=== SX-SN340 ===			
1	82-NS7-002-010		PANEL FR LH	1	82-NS7-007-010		PANEL FR LH
2	82-NS7-003-010		PANEL FR RH	2	82-NS7-008-010		PANEL FR RH
3	82-NS7-014-010		GRILL FRAME ASSY L	3	82-NS7-014-010		GRILL FRAME ASSY L
4	82-NS7-015-010		GRILL FRAME ASSY R	4	82-NS7-015-010		GRILL FRAME ASSY R
5	83-NS2-602-010		SPEAKER WOOFER	5	83-NS2-602-010		SPEAKER WOOFER
6	83-NS2-604-010		SPEAKER TWEETER	6	83-NS2-604-010		SPEAKER TWEETER
7	81-MSE-610-010		CERAMIC	7	81-MSE-610-010		CERAMIC
8	83-096-614-010		SPEAKER CORD	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
PCAP	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-SCRW
ヒンジ	HINGE
ヒンジビス	S-SCRW
ビスセレート	SCRW, SERRART

サービス技術ニュース	
番号	連絡内容
G — —	
G — —	
G — —	

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