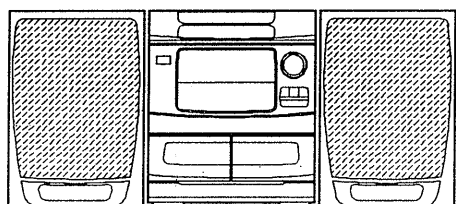


aiwa



CX-NV25 CX-NV10



COMPACT DISC /
STEREO CASSETTE RECEIVER

- BASIC TAPE MECHANISM : 2ZM-3MK2 PR3
- BASIC TAPE MECHANISM : 3ZG-3 A1

- TYPE: HE,HR,HK,LH,K,
EE,EZ,U(NV10)

CD-CASSEIVER	REMOTE CONTROLLER	SPEAKER
CX-NV25	RC-T504	SX-NV30
CN-NV10		

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ACCESSORIES / PACKAGE LIST

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

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	85-NE8-951-019	RC, RC-T504	
2	87-006-240-019	AM LOOP ANT <HE,HR,HK>	
2	87-006-268-019	AM LOOP ANT <LH,U,EE,EZ,K>	
3	87-099-789-019	PLUG,ADPTR IR44<HE,LH,HR,HEB>	
4	87-043-095-019	5M(SW)WIRE-ANT(S)<HE,HR,HK>	
5	87-043-106-019	FM,WIRE ANT (Z)<EE,EZ,K>	
6	87-043-115-01B	ANT,FEEDER FM<EXCEPT EE,EZ,K>	
7	85-NE8-902-019	IB,E (EGI)-M<EE,EZ>	
7	85-NE8-903-019	IB,E (ESF)-M<EE,EZ,K>	
7	85-NE8-901-019	IB,H (ECA)-M<HE,HR,HK>	
7	85-NE8-906-019	IB,U(ESF)-M<LH,U>	

SPECIFICATIONS

Main unit CX-NV25/NV10

<FM tuner section>

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

<AM / MW tuner section>

Tuning range	531 kHz to 1602 kHz (9 kHz step) 530 kHz to 1710 kHz (10 kHz step)
--------------	---

Usable sensitivity	350 μ V/m
Antenna	Loop antenna

<SW tuner section> (HE,HR,HK)

Tuning range	5.95 MHz to 17.9 MHz
Antenna	Wire antenna

<LW tuner section > (EE,K,EZ)

Tuning range	144 kHz to 290 kHz
Usable sensitivity	1000 μ V/m
Antenna	Loop antenna

<Amplifier section>

Power output	HR,LH: 25 W + 25 W (Rate) (6 ohms, T.H.D. 1%, 1 kHz) 30 W + 30 W (Reference) (6 ohms, T.H.D. 10%, 1 kHz) HE,HK: 30 W + 30 W (6 ohm, T.H.D. 10%, 1 kHz) U: FTC RULE 16 watts per channel, Min. RMS at 6 ohms, from 65 Hz to 12 kHz, with no more than 1% Total Harmonic Distortion EE,K,EZ: Reference: 25W + 25W (6 ohms, T.H.D. 10%, 1 kHz / DIN 45324) Rate: 20 W + 20 W (6 ohms, T.H.D. 1%, 1 kHz / DIN 45500) DIN MUSIC POWER: 45W + 45W HE,HR,HK,LH 0.05% (15 W, 1 kHz, 6 ohms) U: 0.05% (8 W, 1 kHz, 6 ohms) EE,K,EZ 0.05% (10 W, 1 kHz, 6 ohms) HE,HR,HK,LH: SUPER WOOFER: 1.4V U,EE,K,EZ: SUPER WOOFER: 1.2V HE,HR,HK,EE,K,EZ: SPEAKERS: accepts speakers of 6 ohms or more PHONES (ϕ 6.3mm stereo jack): accepts headphones of 32 ohms or more HE,HR,HK: VIDEO / AUX: 400 mV MIC 1, MIC 2: 1 mV (10 kohms) U,LH,EE, K, EZ: VIDEO / AUX: 400mV MIC 1, MIC 2: 1.8 mV (10 kohms)
Total harmonic distortion	
Outputs	
Inputs	

CASSETTE DECK SECTION

Track format	4 tracks, 2 channels stereo
Frequency response	CrO2 tape: 50 Hz – 16000 Hz Normal tape: 50 Hz – 15000 Hz
Signal-to-noise ratio	50 dB (CrO2 tape peak level above 400 Hz)

Recording system

Heads	AC bias Deck 1: Playback head x 1 Deck 2: Recording/playback/ erase head x 1
-------	---

Compact disc player section

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

SPEAKER SYSTEM SX-NV30

Cabinet type	3 way, bass reflex (Magnetism sealed type)
Speaker	Woofer: 140 mm (5 ⁵ / ₈ in.) cone type Tweeter: 60 mm (2 ³ / ₈ in.) cone type Super tweeter: 20 mm (1 ³ / ₁₆ in.) ceramic type Speaker: 6 ohms
Impedance	
Output sound pressure level	87 dB/W/m
Dimensions (W x H x D)	206 x 302 x 230 mm (8 ¹ / ₈ x 12 x 9 ¹ / ₈ in.)
Weight	2.8 kg (6 lbs 3 oz.)

GENERAL

Power requirements	HE,HR,HK,LH 120 / 220-240 V AC, switchable 50 / 60 Hz U: 120 V 60 Hz, fixed EE,K,EZ 230 V AC, 50 Hz HE,HR,HK,LH 80 W U: 55W EE,K,EZ: 115W
Power consumption	
Dimensions of main unit (W X H X D)	260 x 305.5 x 339.1mm (10 ¹ / ₄ x 12 ¹ / ₈ x 13 ³ / ₈ in.)
Weight of main unit	HE,HR,HK,LH: 6.3 kg (13 lbs 14 oz) U: 5.7 kg (12 lbs 9 oz) EE,K,EZ: 5.8 kg (12 lbs 14 oz)

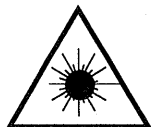
• Design and specifications are subject to change without notice.

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 käyt-täjän turvallisuusluokan 1 ylit-tävälle 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

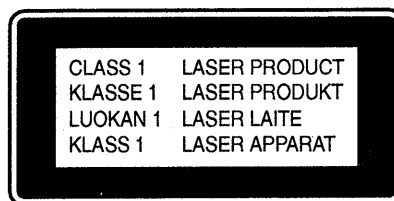
L'utilisation de commandes, réglages ou procédures autres que ceux spécifiés peut entraîner une dangereuse exposition aux radiations.

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.

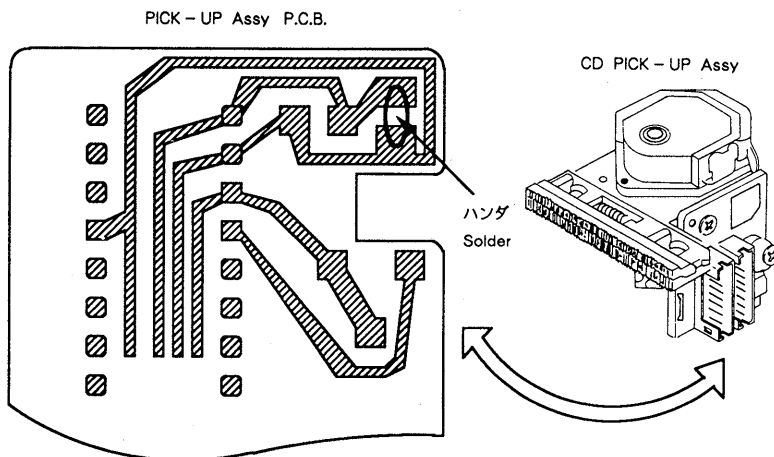


Precaution to replace Optical block

(KSS - 212A)

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

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



ELECTRICAL MAIN PARTS LIST

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

REF.NO.	PART NO.	KANRI NO.	DESCRIPTION	REF.NO.	PART NO.	KANRI NO.	DESCRIPTION
IC				C107	87-010-383-089		CAP,E 33-25 SME<HE, LH, HR, HK>
	87-002-407-010	IC, TA8191F		C107	87-010-260-089		CAP,E 47-25 SME<EE, EZ, K>
	87-070-336-019	IC, TC9284BF		C108	87-010-384-089		CAP,E 100-25 SME<U>
	87-002-727-019	IC, NJM4558L		C108	87-010-260-089		CAP,E 47-25 SME<EXCEPT U>
	85-NE8-640-010	IC, UPD78043BGF-011		C109	87-010-263-089		CAP,E 100-10 SME 5X11
	87-070-321-019	IC, HC-312		C112	87-010-112-089		CAP,E 100-16
	87-070-163-019	IC, STK405-030<U, EE, EZ, K>		C113	87-010-403-089		CAP,E 3.3-50 SME
	87-070-267-019	IC, STK405-050<HE, LH, HR, HK>		C114	87-010-405-089		CAP,E 10-50 SME<U>
	87-070-121-010	IC, HA12185NT		C116	87-018-127-089		CAP, TC-U 470P-50 B
	87-070-305-019	IC, BA6897S		C201	87-010-403-089		CAP,E 3.3-50 SME
	87-017-738-019	IC, NJM2068LD		C202	87-010-403-089		CAP,E 3.3-50 SME
	87-017-787-010	IC, M62412P		C203	87-018-197-089		CAP, TC-U 1800P-16 X<EXCEPT U>
	87-001-982-019	IC, TA7291S		C203	87-018-133-089		CAP, TC-U 4700P-16 X<U>
	87-017-698-080	IC, M65843FP<HE, HR, HK>		C204	87-018-197-089		CAP, TC-U 1800P-16 X<EXCEPT U>
	87-070-127-019	IC, LC72131		C204	87-018-133-089		CAP, TC-U 4700P-16 X<U>
	87-017-374-019	IC, TC4094BP		C205	87-010-400-089		CAP,E 0.47-50<U>
	87-017-673-019	IC, BA3737		C205	87-010-402-089		CAP,E 2.2-50 SME<EXCEPT U>
	87-017-714-019	IC, LA1836		C206	87-010-400-089		CAP,E 0.47-50<U>
	87-027-666-019	IC, TC4052BP		C206	87-010-402-089		CAP,E 2.2-50 SME<EXCEPT U>
	87-020-454-010	IC, DN6851		C207	87-010-400-089		CAP,E 0.47-50 SME<EXCEPT U>
TRANSISTOR				C207	87-010-402-089		CAP,E 2.2-50 SME<U>
	87-026-463-089	TR, 2SA933S (RS)		C208	87-010-400-089		CAP,E 0.47-50 SME<EXCEPT U>
	89-213-702-019	TR, 2SB1370E		C208	87-010-402-089		CAP,E 2.2-50 SME<U>
	87-026-486-089	TR, DTA144TS		C209	87-010-405-089		CAP,E 10-50 SME<EXCEPT EE, EZ>
	89-113-187-889	TR, 2SA1318TU		C209	87-010-404-089		CAP,E 4.7-50 SME<EE, EZ>
	87-026-610-089	TR, KTC3198GR		C210	87-010-404-089		CAP,E 10-50 SME<EXCEPT EE, EZ>
	89-332-665-089	TR, 2SC3266GR		C210	87-010-405-089		CAP,E 10-50 SME<EE, EZ>
	87-026-609-089	TR, KTA1266GR		C213	87-018-141-089		CAP, TC-U 3.3P-50 CH
	89-406-555-089	TR, 2SD655E		C214	87-018-141-089		CAP, TC-U 3.3P-50 CH
	89-109-521-089	TR, 2SA952K		C217	87-018-214-089		CAP TC U 0.1-50 F
	87-026-462-089	TR, 2SC1740S (RS)		C218	87-018-214-089		CAP TC U 0.1-50 F
	89-502-465-089	TR, FET 2SK246GR		C219	87-018-205-089		CAP, TC-U 0.022-25 F<EE, EZ, K>
	89-333-317-089	TR, 2SC3331T		C220	87-018-205-089		CAP, TC-U 0.022-25 F<EE, EZ, K>
	89-112-965-089	TR, 2SA1296GR		C221	87-018-134-089		CAP, TC-U 0.01-16 Y<EE, EZ, K>
	87-026-214-089	TR, DTA114YS		C222	87-018-134-089		CAP, TC-U 0.01-16 Y<EE, EZ, K>
	89-319-233-089	TR, 2SC1923(O)		C230	87-010-408-089		CAP,E 47-50 SME
	89-502-415-089	FET, 2SK241GR		C231	87-018-208-089		CAP, TC-U 0.047-50 F
	89-501-615-089	TR, 2SK161-GR (TPE4)		C232	87-010-404-089		CAP,E 4.7-50 SME<HE, LH, HR, HK>
	87-026-269-089	TR, DTA114ES<EXCEPT LH, U>		C233	87-010-401-089		CAP,E 1-50 SME<HE, LH, HR, HK>
	89-320-011-089	TR, 2SC2001K<EE, EZ, K>		C234	87-010-405-089		CAP,E 10-50 SME<HE, LH, HR, HK>
	89-505-446-089	FET, 2SK544F		C301	87-010-265-089		CAP,E 33-16 SME
DIODE				C302	87-010-265-089		CAP,E 33-16 SME
	87-020-465-089	DIODE, ISS133		C303	87-018-124-089		CAP, TC-U 270P-50 B
	87-017-978-089	DIODE, 1N4003		C304	87-018-126-089		CAP, TC-U 390P-50 B
	87-017-933-089	ZENER, MTZJ10D<EXCEPT U>		C305	87-018-126-089		CAP, TC-U 390P-50 B
	87-017-173-089	ZENER, HZ11A2L<U>		C306	87-018-124-089		CAP, TC-U 270P-50 B
	87-017-144-089	ZENER, HZS24-2		C313	87-018-132-089		CAP, TC-U 2200P-16 X
	87-002-225-019	DIODE DBF 40C-K10		C314	87-018-132-089		CAP, TC-U 2200P-16 X
	87-017-931-089	ZENER, MTZJ5.6B		C315	87-018-195-089		CAP, TC-U 1200P-16 X
	87-017-932-089	ZENER, MTZJ6.2B		C316	87-018-195-089		CAP, TC-U 1200P-16 X
	87-001-559-089	DIODE 1SS131 (T-72)		C317	87-010-401-089		CAP,E 1-50 SME
	87-027-286-089	ZENER, HZ5C1(TA)<HE, HR, HK>		C318	87-010-401-089		CAP,E 1-50 SME
	87-001-912-089	ZENER, UTZJ 5.1B		C321	87-010-544-089		CAP,E 0.1-50
	87-020-691-089	DIODE, 1SS132		C322	87-010-544-089		CAP,E 0.1-50
MAIN C.B				C324	87-010-546-089		CAP,E 0.33-50 SME
BPF831	87-030-105-010	FLTR, BPMB6A<EE, EZ, K>		C325	87-010-546-089		CAP,E 0.33-50 SME
C102	87-016-473-089	CAP,E 3300-35 SME		C326	87-018-109-089		CAP, TC-U 22P-50 SL
C102	87-016-473-099	CAP,E 3300-35 SME		C327	87-018-109-089		CAP, TC-U 22P-50 SL
C103	87-016-566-089	CAP,E 2200-35		C328	87-018-115-089		CAP, TC-U 47P-50 SL
C103	87-016-566-099	CAP,E 2200-35 (JAMI)		C329	87-018-115-089		CAP, TC-U 47P-50 SL
C104	87-010-381-089	CAP,E 330-16 SME		C351	87-018-121-089		CAP, TC-U 150P-50 B
C105	87-010-101-089	CAP,E 220-16 SME		C352	87-018-121-089		CAP, TC-U 150P-50 B
C106	87-010-764-089	CAP,E 47-63V		C415	87-018-121-089		CAP, TC-U 150P-50 B
C107	87-010-384-089	CAP,E 100-25 SME<U>		C416	87-018-121-089		CAP, TC-U 150P-50 B
				C451	87-018-123-089		CAP, TC-U 220P-50 B
				C452	87-018-123-089		CAP, TC-U 220P-50 B
				C453	87-018-131-089		CAP, TC-U 1000P-50 B<EE, EZ, K>
				C454	87-018-131-089		CAP, TC-U 1000P-50 B<EE, EZ, K>
				C456	87-010-260-089		CAP,E 47-25 SME
				C457	87-018-205-089		CAP, TC-U 0.022-25 F

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
C458	87-018-134-089		CAP,TC-U 0.01-16 Y
C459	87-018-131-089		CAP,TC-U 1000P-50 B
C461	87-018-198-089		CAP,TC-U 2700P-16 X
C462	87-018-198-089		CAP,TC-U 2700P-16 X
C463	87-018-198-089		CAP,TC-U 2700P-16 X
C519	87-010-405-089		CAP,E 10-50 SME
C522	87-018-116-089		CAP,TC-U 56P-50 SL
C523	87-018-134-089		CAP,TC-U 0.01-16 Y
C524	87-010-402-089		CAP,E 2.2-50 SME
C525	87-018-134-089		CAP,TC-U 0.01-16 Y
C526	87-010-371-089		CAP,E 470-6.3
C531	87-010-545-089		CAP,E 0.22-50 SME
C532	87-010-263-089		CAP,E 100-10 SME 5X11
C533	87-010-400-089		CAP,E 0.47-50 SME
C535	87-010-400-089		CAP,E 0.47-50 SME
C536	87-010-401-089		CAP,E 1-50 SME
C537	87-010-401-089		CAP,E 1-50 SME
C538	87-018-205-089		CAP,TC-U 0.022-25 F
C539	87-010-382-089		CAP,E 22-25 SME
C543	87-018-131-089		CAP,TC-U 1000P-50 B
C544	87-018-131-089		CAP,TC-U 1000P-50 B
C545	87-018-205-089		CAP,TC-U 0.022-25 F
C547	87-010-546-089		CAP,E 0.33-50 SME
C548	87-010-546-089		CAP,E 0.33-50 SME
C601	87-018-205-089		CAP,TC-U 0.022-25 F
C650	87-018-134-089		CAP,TC-U 0.01-16 Y
C652	87-018-214-089		CAP TC U 0.1-50 F
C653	87-018-113-089		CAP,TC-U 33P-50 SL<EE,EZ,K>
C654	87-018-113-089		CAP,TC-U 33P-50 SL<EE,EZ,K>
C655	87-018-214-089		CAP TC U 0.1-50 F
C656	87-018-122-089		CAP,TC-U 180P-50 B<EE,EZ,K>
C657	87-018-122-089		CAP,TC-U 180P-50 B<EE,EZ,K>
C658	87-018-134-089		CAP,TC-U 0.01-16 Y
C701	87-010-404-089		CAP,E 4.7-50 SME
C702	87-018-134-089		CAP,TC-U 0.01-16 Y
C703	87-018-134-089		CAP,TC-U 0.01-16 Y
C704	87-018-131-089		CAP,TC-U 1000P-50 B
C711	87-010-263-089		CAP,E 100-10 SME 5X11
C712	87-010-112-089		CAP,E 100-16
C722	87-018-145-089		CAP,TC-U 6.8P-50 CH
C723	87-018-131-089		CAP,TC-U 1000P-50 B
C725	87-018-131-089		CAP,TC-U 1000P-50 B
C727	87-018-134-089		CAP,TC-U 0.01-16 Y
C728	87-010-248-089		CAP,E 220-10 SME
C748	87-018-134-089		CAP,TC-U 0.01-16 Y
C771	87-010-405-089		CAP,E 10-50 SME
C772	87-018-208-089		CAP,TC-U 0.047-50 F
C773	87-018-214-089		CAP TC U 0.1-50 F
C774	87-010-263-089		CAP,E 100-10 SME 5X11
C775	87-010-405-089		CAP,E 10-50 SME
C776	87-018-134-089		CAP,TC-U 0.01-16Y<LH,U,EE,EZ,K>
C777	87-010-400-089		CAP,E 0.47-50 SME
C778	87-010-401-089		CAP,E 1-50 SME
C779	87-010-401-089		CAP,E 1-50 SME
C780	87-018-134-089		CAP,TC-U 0.01-16 Y
C791	87-010-401-089		CAP,E 1-50 SME
C793	87-018-203-089		CAP,TC-U 8200P-16 Y
C794	87-010-260-089		CAP,E 47-25 SME
C795	87-018-208-089		CAP,TC-U 0.047-50 F
C796	87-010-403-089		CAP,E 3.3-50 SME
C799	87-010-405-089		CAP,E 10-50 SME
C802	87-018-104-089		CAP,TC-U 10P-50 SL<HE,HR,HK>
C802	87-018-105-089		CAP,TC-U 12P-50 SL<EE,EZ,K>
C802	87-018-102-089		CAP,TC-U 6.8P-50 SL<LH,U>
C804	87-018-102-089		CAP,TC-U 6.8P-50<HE,LH,HR,U,HK>
C805	87-018-097-089		CAP,TC-U 2.2P-50 SL<EE,EZ,K>
C805	87-018-098-089		CAP,TC-U 3.3P-50<HE,LH,HR,U,HK>
C806	87-018-096-089		CAP,TC-U 1P-50 SL
C807	87-018-106-089		CAP,TC-U 15P-50 SL<EE,EZ,K>
C807	87-018-100-089		CAP,TC-U 4.7P-50<HE,LH,HR,U,HK>


REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
C808	87-018-119-089		CAP,TC-U 100P-50 B
C809	87-018-134-089		CAP,TC-U 0.01-16 Y
C810	87-018-134-089		CAP,TC-U 0.01-16 Y
C811	87-018-116-089		CAP,TC-U 56P-50 SL
C812	87-018-107-089		CAP,TC-U 18P-50 SL
C813	87-018-134-089		CAP,TC-U 0.01-16 Y
C814	87-018-134-089		CAP,TC-U 0.01-16 Y
C815	87-018-134-089		CAP,TC-U 0.01-16 Y
C817	87-018-134-019		CAP,TC-U 0.01-16 Y
C819	87-018-214-089		CAP TC U 0.1-50 F<EE,EZ,K>
C819	87-018-134-089		CAP,TC-U 0.01-16<HE,LH,HR,U,HK>
C820	87-010-260-089		CAP,E 47-25 SME
C821	87-018-134-089		CAP,TC-U 0.01-16 Y
C822	87-018-106-089		CAP,TC-U 15P-50 SL<EE,EZ,K>
C822	87-018-103-089		CAP,TC-U 8.2P-50<HE,LH,HR,U,HK>
C823	87-018-104-089		CAP,TC-U 10P-50 SL<EE,EZ,K>
C823	87-018-111-089		CAP,TC-U 27P-50 <HE,LH,HR,U,HK>
C830	87-018-134-089		CAP,TC-U 0.01-16Y<LH,U,EE,EZ,K>
C831	87-018-105-089		CAP,TC-U 12P-50 SL<EE,EZ,K>
C831	87-018-102-089		CAP,TC-U 6.8P-50<HE,LH,HR,U,HK>
C832	87-018-108-089		CAP,TC-U 20P-50 SL<EE,EZ,K>
C834	87-018-103-089		CAP,TC-U 8.2P-50 SL<EE,EZ,K>
C847	87-018-134-089		CAP,TC-U 0.01-16 Y
C849	87-018-134-089		CAP,TC-U 0.01-16 Y
C850	87-018-134-089		CAP,TC-U 0.01-16 Y
C851	87-018-111-089		CAP,TC-U 27P-50 <HE,LH,HR,U,HK>
C860	87-018-134-089		CAP,TC-U 0.01-16 Y
C861	87-018-196-089		CAP,TC-U1500P-16<HE,LH,HR,U,HK>
C861	87-018-197-089		CAP,TC-U 1800P-16 X<EE,EZ,K>
C862	87-018-209-089		CAP,TC-U 0.1-50 F<EE,EZ,K>
C941	87-018-149-089		CAP,TC-U 15P-50 CH<HE,HR,HK>
C942	87-018-104-089		CAP,TC-U 10P-50 SL<EE,EZ,K>
C943	87-018-134-089		CAP,TC-U 0.01-16 Y<HE,HR,HK>
C944	87-014-051-089		CAP,PP 560P-100 J<HE,HR,HK>
C945	87-018-134-089		CAP,TC-U 0.01-16 Y<HE,HR,HK>
C946	87-010-401-089		CAP,E 1-50 SME
C949	87-014-050-089		CAP,PP 510P-100 J<EE,EZ,K>
C950	87-014-073-089		CAP,PP 4700P-100 J<HE,HR,HK>
C951	87-018-134-019		CAP,TC-U 0.01-16 Y
C952	87-018-134-089		CAP,TC-U 0.01-16 Y<EXCEPT LH,U>
C953	87-018-134-089		CAP,TC-U 0.01-16 Y<HE,HR,HK>
C954	87-010-400-089		CAP,E 0.47-50 SME<HE,HR,HK>
C955	87-018-134-089		CAP,TC-U 0.01-16 Y
C956	87-010-263-089		CAP,E 100-10 SME 5X11<HE,HR,HK>
C957	87-018-107-089		CAP,TC-U 18P-50 SL<EE,EZ,K>
C958	87-018-134-089		CAP,TC-U 0.01-16 Y<EE,EZ,K>
C960	87-010-544-089		CAP,E 0.1-50
C971	87-018-134-089		CAP,TC-U 0.01-16 Y<EE,EZ,K>
C972	87-018-214-089		CAP TC U 0.1-50 F
C973	87-018-134-089		CAP,TC-U 0.01-16 Y
C988	87-018-212-089		CAP,TC U 0.022-50F<HE,HR,HK>
C988	87-018-209-089		CAP,TC-U 0.1-50 F<LH,U,EE,EZ,K>
C999	87-018-209-089		CAP,TC-U 0.1-50 F<HE,HR,HK>
CF741	87-030-354-019		VIB,CF BFU450C<HE,HR,HK>
CF801	87-008-423-019		CF,SFE 10.7 MS3G-A<EE,EZ,K>
CF801	87-008-261-089		FLTR,SFE10.7MA5A<HE,LH,HR,U,HK>
CF802	87-008-264-019		FLTR,SFE 10.7MS2-A<EE,EZ,K>
CF802	87-008-261-089		FLTR,SFE10.7MA5A<HE,LH,HR,U,HK>
D801	87-027-900-089		VARI-CAP,1SV147
D802	87-027-900-089		VARI-CAP,1SV147
D803	87-027-900-089		VARI-CAP,1SV147
D804	87-027-900-089		VARI-CAP,1SV147<EE,EZ,K>
J250	87-099-678-019		JACK,6.3 W/S BLK
J253	87-009-621-019		JACK PIN 1P BLK
J254	87-033-227-019		TERMINAL,SP 4P R (Z)
J652	87-099-741-019		JACK,PIN 2P (JT)
J801	87-033-230-019		TERMINAL,ANT AJ-2016<EE,EZ,K>
J801	87-033-235-019		TERMINAL,ANT (H)<HE,LH,HR,U,HK>
L201	87-005-366-019		COIL, 1UH<EE,EZ,K>
L202	87-005-366-019		COIL, 1UH<EE,EZ,K>

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
L403	87-005-525-089		COIL, 22MH-J	C602	87-010-544-049		CAP, E 0.1-50 SME
L404	87-005-525-089		COIL, 22MH-J	C604	87-018-214-089		CAP TC U 0.1-50 F
L451	87-007-342-019		COIL, OSC 85K BIAS	C607	87-010-401-049		CAP, E 1-50 SME<HE, HR, HK>
L741	87-006-259-019		COIL, FM DET	C608	87-010-401-049		CAP, E 1-50 SME<HE, HR, HK>
L742	81-631-612-019		CFMT 450A<HE, HR, HK>	C615	87-010-401-049		CAP, E 1-50 SME
L742	82-NT1-659-019		FLTR, CFAZ-450 2NT<LH, U, EE, EZ, K>	C618	87-010-260-049		CAP, E 47-25 SME
L770	87-005-849-089		COIL, 10UH (CECS)	C620	87-010-405-049		CAP, E 10-50 SME<HE, HR, HK>
L801	87-006-263-019		COIL, ANTFM 3/4TS, L4	C620	87-010-260-049		CAP, E 47-25 SME<LH, U, EE, EZ, K>
L802	87-006-243-019		COIL, ANT FM2-3/4TS, L4	C630	87-010-263-049		CAP, E 100-10<LH, U, EE, EZ, K>
L803	87-006-262-019		COIL, RF FM3-1/2T, L4	C630	87-010-248-049		CAP, E 220-10 SME<HE, HR, HK>
L804	87-006-246-019		COIL, RF FM3-1/2TS, L4	C641	87-018-214-089		CAP TC U 0.1-50 F
L805	87-005-847-089		COIL, 2.2UH (CECS)	C651	87-010-401-049		CAP, E 1-50 SME
L806	87-005-849-089		COIL, 10UH (CECS)	C700	87-010-544-089		CAP, E 0.1-50<HE, HR, HK>
L807	87-007-259-019		COIL, FM OSC (7K) N	C701	87-018-132-089		CAP, TC-U 2200P-16 X<HE, HR, HK>
L831	87-006-245-019		COIL, RF FM4TSR, L5<EE, EZ, K>	C702	87-018-134-089		CAP, TC-U 0.01-16 Y<HE, HR, HK>
L832	87-005-847-089		COIL, 2.2UH (CECS)	C703	87-010-544-049		CAP, E 0.1-50 SME<HE, HR, HK>
L941	87-006-320-019		COIL, ANT LW(SG1)<EE, EZ, K>	C706	87-018-132-089		CAP, TC-U 2200P-16 X<HE, HR, HK>
L941	87-006-319-019		COIL, ANT SW(SG1)<HE, HR, HK>	C707	87-018-134-089		CAP, TC-U 0.01-16 Y<HE, HR, HK>
L942	87-007-338-019		COIL, OSC LW(SG1)<EE, EZ, K>	C708	87-010-544-089		CAP, E 0.1-50<HE, HR, HK>
L942	87-007-337-019		COIL, OSC SW(SG1)<HE, HR, HK>	C709	87-010-260-089		CAP, E 47-25 SME<HE, HR, HK>
L943	87-005-372-089		COIL, S 1MH<HE, HR, HK>	C710	87-018-129-089		CAP, TC-U 680P-50 B<HE, HR, HK>
L944	87-005-372-089		COIL, S 1MH<HE, HR, HK>	C711	87-018-129-089		CAP, TC-U 680P-50 B<HE, HR, HK>
L982	85-NF7-618-019		AM PACK 1, (SG1)<LH, U>	C712	87-010-263-049		CAP, E 100-10<HE, HR, HK>
L982	85-NF7-619-019		AM PACK 2, (SG1)<EE, EZ, K>	C714	87-010-545-089		CAP, E 0.22-50 SME<HE, HR, HK>
L982	85-NF7-620-019		AM PACK 3, (SG1)<HE, HR, HK>	C715	87-018-133-089		CAP, TC-U 4700P-16 X<HE, HR, HK>
R105	87-022-050-089		RESIS METAL 1W-0.22J	C801	87-018-119-089		CAP, TC-U 100P-50 B<EE, EZ, K>
R106	87-022-050-089		RESIS METAL 1W-0.22J	C802	87-018-122-089		CAP, TC-U 180P-50 B<EE, EZ, K>
R114	87-022-391-089		RES, M/F 0.47-1W<U>	C803	87-018-122-089		CAP, TC-U 180P-50 B<EE, EZ, K>
R229	87-022-184-089		RES METAL 0.33-1W<EE, EZ, K>	FL101	83-NEG-632-019		FL 8-BT-163GK
R229	87-022-050-089		RES METAL 1W-0.22J<HE, LH, HR, HK>	J600	82-NF7-630-019		JACK, 3.5 MO
R230	87-022-184-089		RES METAL 0.33-1W<EE, EZ, K>	J601	82-NF7-630-019		JACK, 3.5 MO
R230	87-022-050-089		RES METAL 1W-0.22J<HE, LH, HR, HK>	L700	87-005-454-089		COIL, 680UH FLR50 K<HE, HR, HK>
SFR301	87-024-177-089		SFR, 220K DIA6 V<EE, EZ, K>	S303	87-036-215-089		SW, TACT EVQ21404M
SFR302	87-024-177-089		SFR, 220K DIA6 V<EE, EZ, K>	S304	87-036-215-089		SW, TACT EVQ21404M
SFR451	87-024-175-089		SFR, 47K DIA6 V	S305	87-036-215-089		SW, TACT EVQ21404M
SFR452	87-024-175-089		SFR, 47K DIA6 V	S306	87-036-215-089		SW, TACT EVQ21404M
SFR722	87-024-171-089		SFR, 4.7K DIA6 V	S307	87-036-215-089		SW, TACT EVQ21404M
TC721	87-011-253-089		TRIMER, 30P LAR	S308	87-036-215-089		SW, TACT EVQ21404M
TC801	87-011-252-089		TRIMMER 10P LAR	S309	87-036-215-089		SW, TACT EVQ21404M
TC802	87-011-252-089		TRIMMER 10P LAR	S310	87-036-215-089		SW, TACT EVQ21404M
TC803	87-011-252-089		TRIMMER 10P LAR<EE, EZ, K>	S311	87-036-215-089		SW, TACT EVQ21404M
TC941	87-011-254-089		TRIMER, 20P LAR<HE, HR, HK>	S312	87-036-215-089		SW, TACT EVQ21404M
TC942	87-011-253-089		TRIMER, 30P LAR<EXCEPT LH, U>	S313	87-036-215-089		SW, TACT EVQ21404M
W101	83-NEG-679-019		F-CABEL, 5P-2.5	S314	87-036-215-089		SW, TACT EVQ21404M
X703	84-508-618-019		VIB, CER CSB 456 F15	S315	87-036-215-089		SW, TACT EVQ21404M
X721	87-030-372-019		VIB, XTAL 7.2MHZ	S316	87-036-215-089		SW, TACT EVQ21404M
				S317	87-036-215-089		SW, TACT EVQ21404M
				S318	87-036-215-089		SW, TACT EVQ21404M
				S319	87-036-215-089		SW, TACT EVQ21404M
				S320	87-036-215-089		SW, TACT EVQ21404M
FRONT C.B				S321	87-036-215-089		SW, TACT EVQ21404M
	82-NF7-210-019		GUIDE, FL	S322	87-036-215-089		SW, TACT EVQ21404M
C220	87-010-404-049		CAP, E 4.7-50 SME	S323	87-036-215-089		SW, TACT EVQ21404M
C221	87-010-404-049		CAP, E 4.7-50 SME	S324	87-036-215-089		SW, TACT EVQ21404M
C222	87-010-408-049		CAP, E 47-50 SME	VR600	83-NM1-627-019		VR, 10KB RK11K1130<HE, HR, HK>
C223	87-010-405-049		CAP, E 10-50 SME				
C224	87-010-401-049		CAP, E 1-50 SME	VR601	81-MX4-637-019		VR 10KA RK11K1130
C225	87-010-263-049		CAP, E 100-10	X201	87-030-416-089		VIB, CER FCR4.19M5
C226	87-010-401-049		CAP, E 1-50 SME				
C227	87-010-248-049		CAP, E 220-10 SME				
C228	87-018-134-089		CAP, TC-U 0.01-16 Y				
				MVR C.B			
C229	87-018-127-089		CAP, TC-U 470P-50 B				
C401	87-010-545-049		CAP, E 0.22-50 SME	C652	87-010-401-049		CAP, E 1-50 SME
C402	87-018-131-089		CAP, TC-U 1000P-50 B	C800	87-018-205-089		CAP, TC-U 0.022-25 F
C403	87-018-113-089		CAP, TC-U 33P-50 SL	MVR801	81-MX4-635-019		VR, 50KBX2 RK16812 MG
C404	87-018-113-089		CAP, TC-U 33P-50 SL				
C405	87-018-150-089		CAP, TC-U 18P-50 CH	CD C.B			
C508	87-010-384-049		CAP, E 100-25 SME				
C600	87-010-544-049		CAP, E 0.1-50 SME	C001	87-010-382-089		CAP, E 22-25 SME
C601	87-018-119-089		CAP, TC-U 100P-50B<LH, U, EE, EZ, K>	C002	87-018-134-089		CAP, TC-U 0.01-16 Y
C601	87-018-118-089		CAP, TC-U 82P-50 B<HE, HR, HK>	C003	87-010-263-089		CAP, E 100-10 SME 5X11
				C004	87-010-401-089		CAP, E 1-50 SME
				C005	87-018-140-089		CAP, TC-U 2.2P-50 CH

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
C007	87-018-113-089		CAP,TC-U 33P-50 SL	FT101	85-NE8-654-019		CABLE,FFC 15P ES
C008	87-018-119-089		CAP,TC-U 100P-50 B	SFR1	87-024-581-010		SFR,3K DIA 6H
C010	87-010-545-089		CAP,E 0.22-50 SME	SOL1	82-ZM1-618-310		SOL ASSY,27
C011	87-010-265-089		CAP,E 33-16 SME	SOL2	82-ZM1-626-010		SOL,ASSY,27K
C013	87-018-134-089		CAP,TC-U 0.01-16 Y	FT101	85-NE8-654-019		CABLE,FFC 15P ES
C014	87-010-248-089		CAP,E 220-10 SME	SW1	87-036-378-010		SW,PUSH 1-1-1 SH2
C015	87-010-374-089		CAP,E 47-10	SW2	87-036-378-010		SW,PUSH 1-1-1 SH2
C016	87-010-403-089		CAP,E 3.3-50 SME	SW3	87-036-378-010		SW,PUSH 1-1-1 SH2
C021	87-018-117-089		CAP,TC-U 68P-50 SL	SW4	87-036-378-010		SW,PUSH 1-1-1 SH2
C022	87-018-201-089		CAP,TC-U 5600P-16 X	SW5	87-036-378-010		SW,PUSH 1-1-1 SH2
C023	87-010-263-089		CAP,E 100-10 SME 5X11	SW6	87-036-378-010		SW,PUSH 1-1-1 SH2
C024	87-018-134-089		CAP,TC-U 0.01-16 Y	SW7	87-036-378-010		SW,PUSH 1-1-1 SH2
C101	87-018-134-089		CAP,TC-U 0.01-16 Y	SW8	87-036-0378-010		SW,PUSH 1-1-1 SH2
C102	87-018-134-089		CAP,TC-U 0.01-16 Y				
C103	87-010-374-089		CAP,E 47-10	AC1 C.B			
C104	87-010-374-089		CAP,E 47-10	△F101	87-035-412-019		FUSE T1.25A 250V UL<U>
C106	87-018-134-089		CAP,TC-U 0.01-16 Y	△F101	87-035-363-019		FUSE,1.25A 250V E<HE,LH,HR,HK>
C107	87-010-404-089		CAP,E 4.7-50 SME	△F101	87-035-359-019		FUSE,500MA 250V T E<EE,EZ,K>
C108	87-018-134-089		CAP,TC-U 0.01-16 Y	△H101	87-033-213-089		CLAMP FUSE SMK
C109	87-010-248-089		CAP,E 220-10 SME	△H102	87-033-213-089		CLAMP FUSE SMK
C110	87-010-263-089		CAP,E 100-10 SME 5X11	△PT101	82-NF7-624-019		PT,2NF7 HE<HE,HR,HK>
C111	87-018-131-089		CAP,TC-U 1000P-50 B	△PT101	85-NE8-605-019		PT,5NE-8 LH<LH>
C114	87-010-248-089		CAP,E 220-10 SME	△PT101	85-NE8-602-019		PT,5NE-8 U<U>
C115	87-018-134-089		CAP,TC-U 0.01-16 Y	△PT101	83-NE2-611-019		PT,EKZ (EI-66)<EE,EZ,K>
C116	87-018-134-089		CAP,TC-U 0.01-16 Y	△SW101	87-036-388-010		SW,SL 1-2-2<HE,LH,HR,HK,>
C117	87-018-119-089		CAP,TC-U 100P-50 B	△T101	82-304-743-019		TERMINAL,1P
C120	87-018-109-089		CAP,TC-U 22P-50 SL	△T102	82-304-743-019		TERMINAL,1P
C121	87-018-109-089		CAP,TC-U 22P-50 SL				
C123	87-018-134-089		CAP,TC-U 0.01-16 Y	AC2 C.B			
C125	87-010-401-089		CAP,E 1-50 SME				
C201	87-018-115-089		CAP,TC-U 47P-50 SL	HEAD-1 C.B			
C202	87-018-115-089		CAP,TC-U 47P-50 SL				
C203	87-018-118-089		CAP,TC-U 82P-50 B	HEAD-2 C.B			
C204	87-018-118-089		CAP,TC-U 82P-50 B				
C205	87-018-118-089		CAP,TC-U 82P-50 B				
C206	87-018-118-089		CAP,TC-U 82P-50 B	MOTOR-1 C.B			
C207	87-018-120-089		CAP,TC-U 120P-50 B				
C208	87-018-120-089		CAP,TC-U 120P-50 B	M20	87-045-356-019		MOT,RF-310TA 30
C209	87-018-120-089		CAP,TC-U 120P-50 B	M21	87-045-358-019		MOT,RF-310TA 43
C210	87-018-120-089		CAP,TC-U 120P-50 B	SW1	87-036-340-019		SW,LEAF LSA-1121
C211	87-010-403-089		CAP,E 3.3-50 SME				
C212	87-010-403-089		CAP,E 3.3-50 SME	MOTOR-2 C.B			
C213	87-018-133-089		CAP,TC-U 4700P-16 X				
C214	87-018-133-089		CAP,TC-U 4700P-16 X	M22	87-045-305-019		MOTOR,RF-500TB
C231	87-010-221-089		CAP,E 470-10	SW2	87-036-110-019		SW,PUSH SPPB 62
C232	87-010-263-089		CAP,E 100-10 SME 5X11	SW3	87-036-110-019		SW,PUSH SPPB 62
C302	87-010-404-089		CAP,E 4.7-50 SME				
C501	87-018-134-089		CAP,TC-U 0.01-16 Y				
C502	87-010-221-089		CAP,E 470-10				
C503	87-010-263-089		CAP,E 100-10 SME 5X11				
C504	87-018-134-089		CAP,TC-U 0.01-16 Y				
C505	87-018-134-089		CAP,TC-U 0.01-16 Y				
C506	87-010-221-089		CAP,E 470-10				
C601	87-018-134-089		CAP,TC-U 0.01-16 Y				
C602	87-010-381-089		CAP,E 330-16 SME				
C702	87-018-119-089		CAP,TC-U 100P-50 B				
C703	87-018-119-089		CAP,TC-U 100P-50 B				
C704	87-018-115-089		CAP,TC-U 47P-50 SL				
C707	87-018-131-089		CAP,TC-U 1000P-50 B				
FT102	85-NE8-657-019		CABLE,FFC 10P-CD				
FT103	85-NE8-656-019		CABLE FFC 6P-CD				
L002	87-005-730-089		COIL,10UH J SP02				
L301	87-005-730-089		COIL,10UH J SP02				
SFR001	87-024-176-089		SFR,100K DIA6 V				
SFR002	87-024-171-089		SFR,4.7K DIA6 V				
X101	87-030-221-089		CERALOCK 16.93MHZ				

DECK C.B

TRANSISTOR ILLUSTRATION



E C B

2SA952

2SC3331

2SA1296

2SC1923

2SA1318


2SD655

2SC2001

KTA1266


2SC3266

KTC3198



E C B

2SK246



E C B


2SA933

2SC1740

DTA114YS

DTA144TS

DTA114ES




D S G

2SK544

2SK161

2SK241



B C E

2SB1370

○ チップ抵抗部品コード／CHIP RESISTOR PART CODE

チップ抵抗部品コードの成り立ち

Chip Resistor Part Coading

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8

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A

抵抗部品コード

Resistor Code

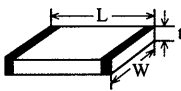
桁表示

Figure

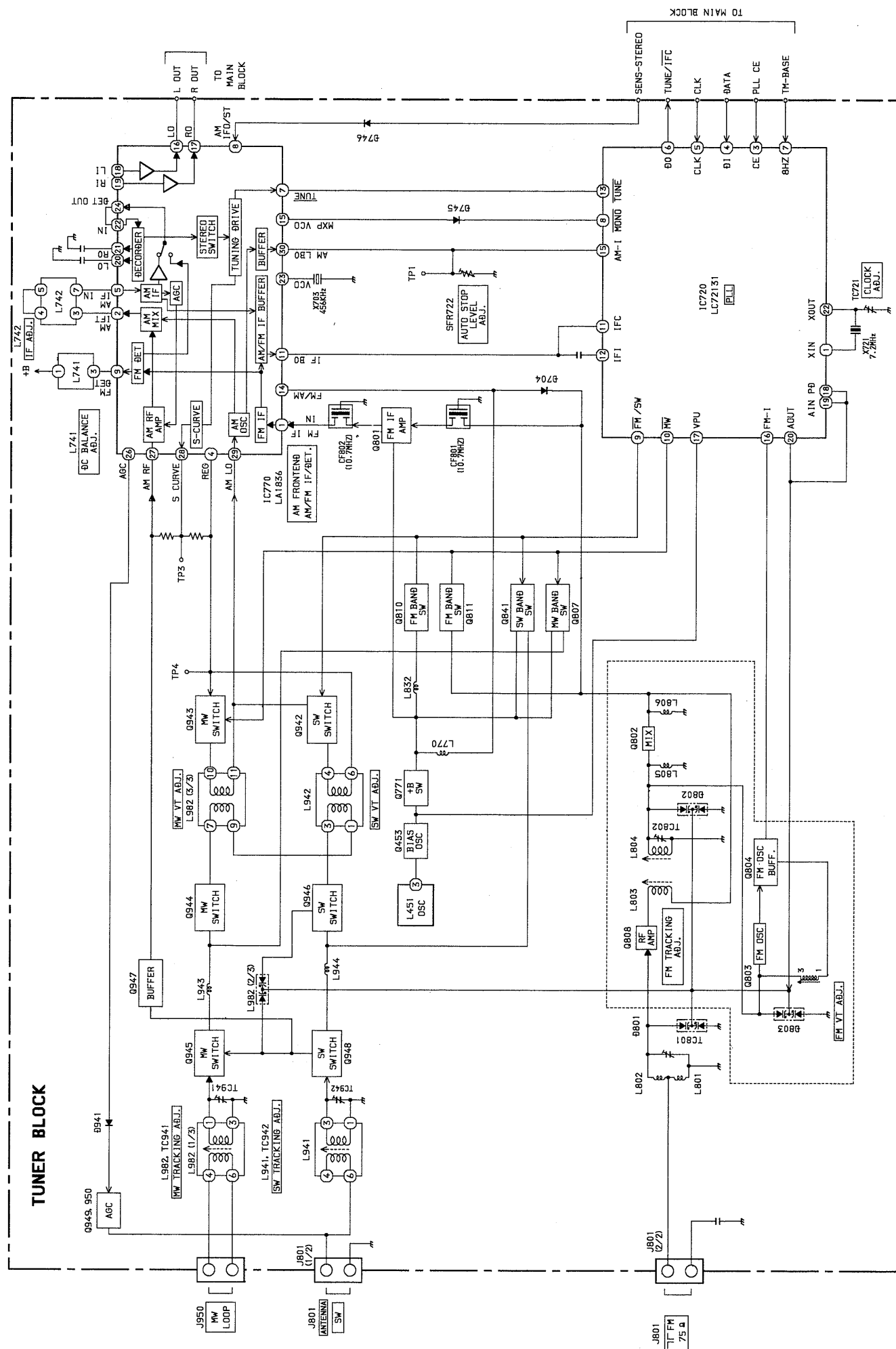
抵抗値

Value of resistor

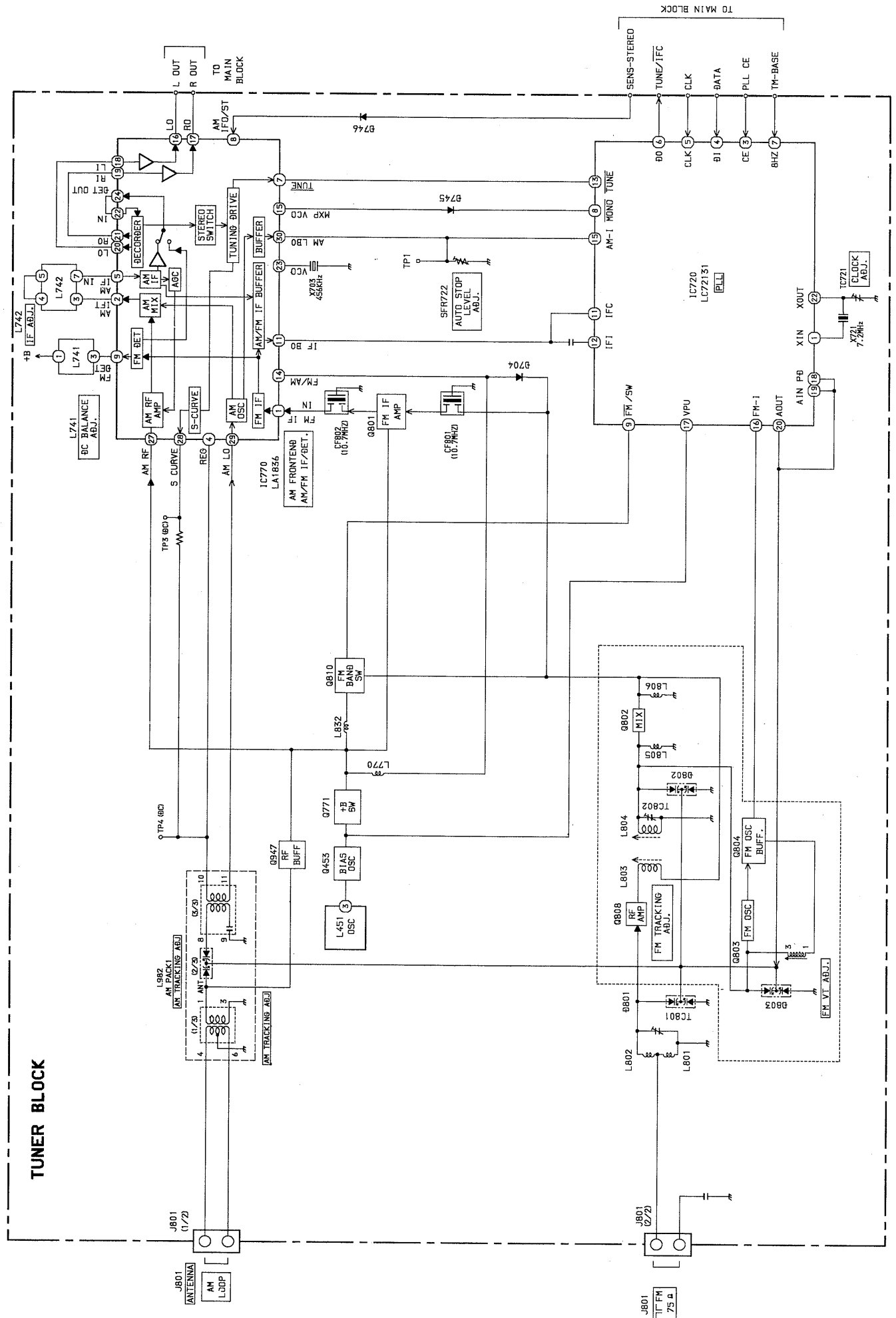
チップ抵抗
Chip resistor

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

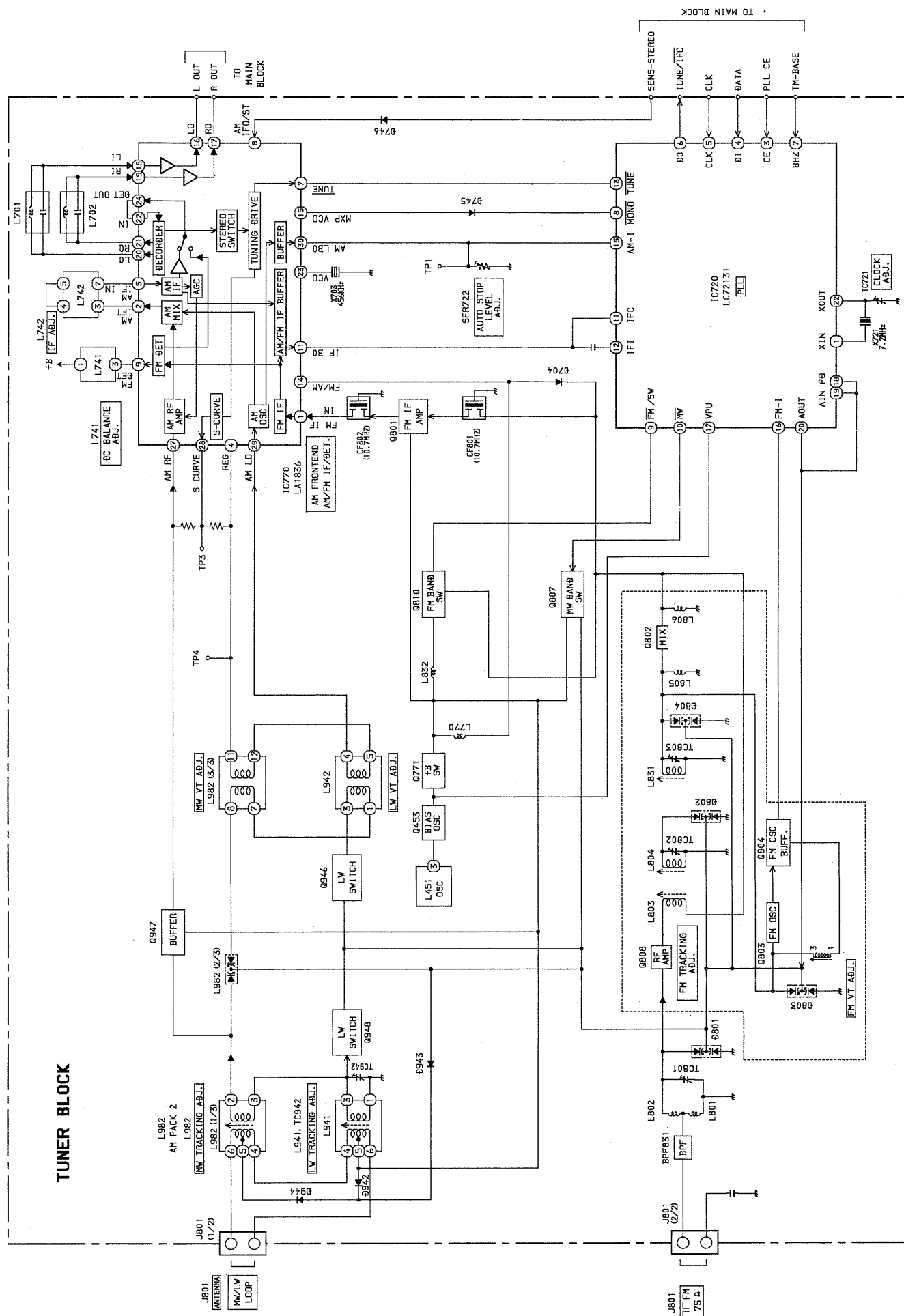
BLOCK DIAGRAM – 1 (HE,HR,HK)



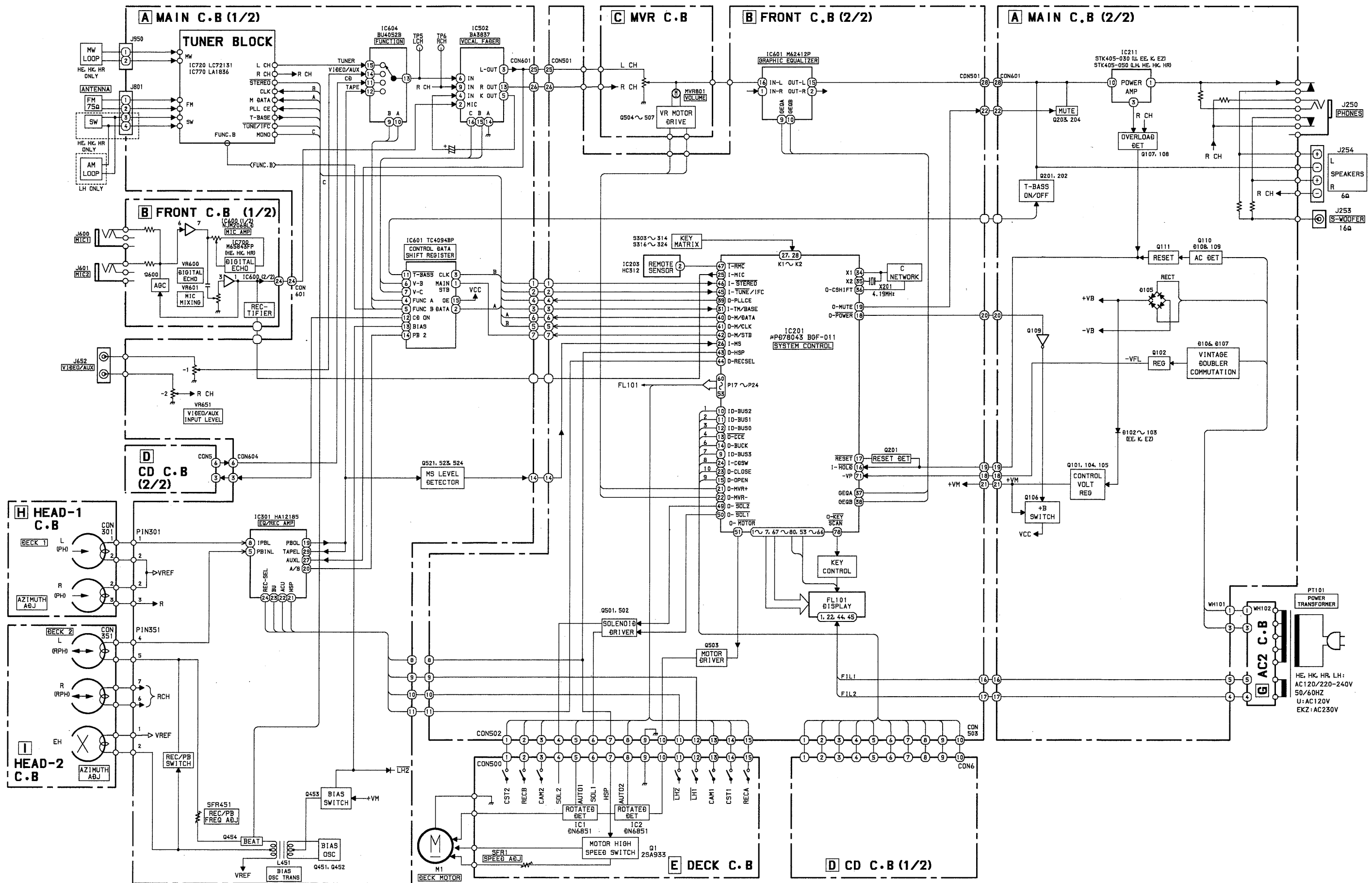
BLOCK DIAGRAM - 2 (U,LH)

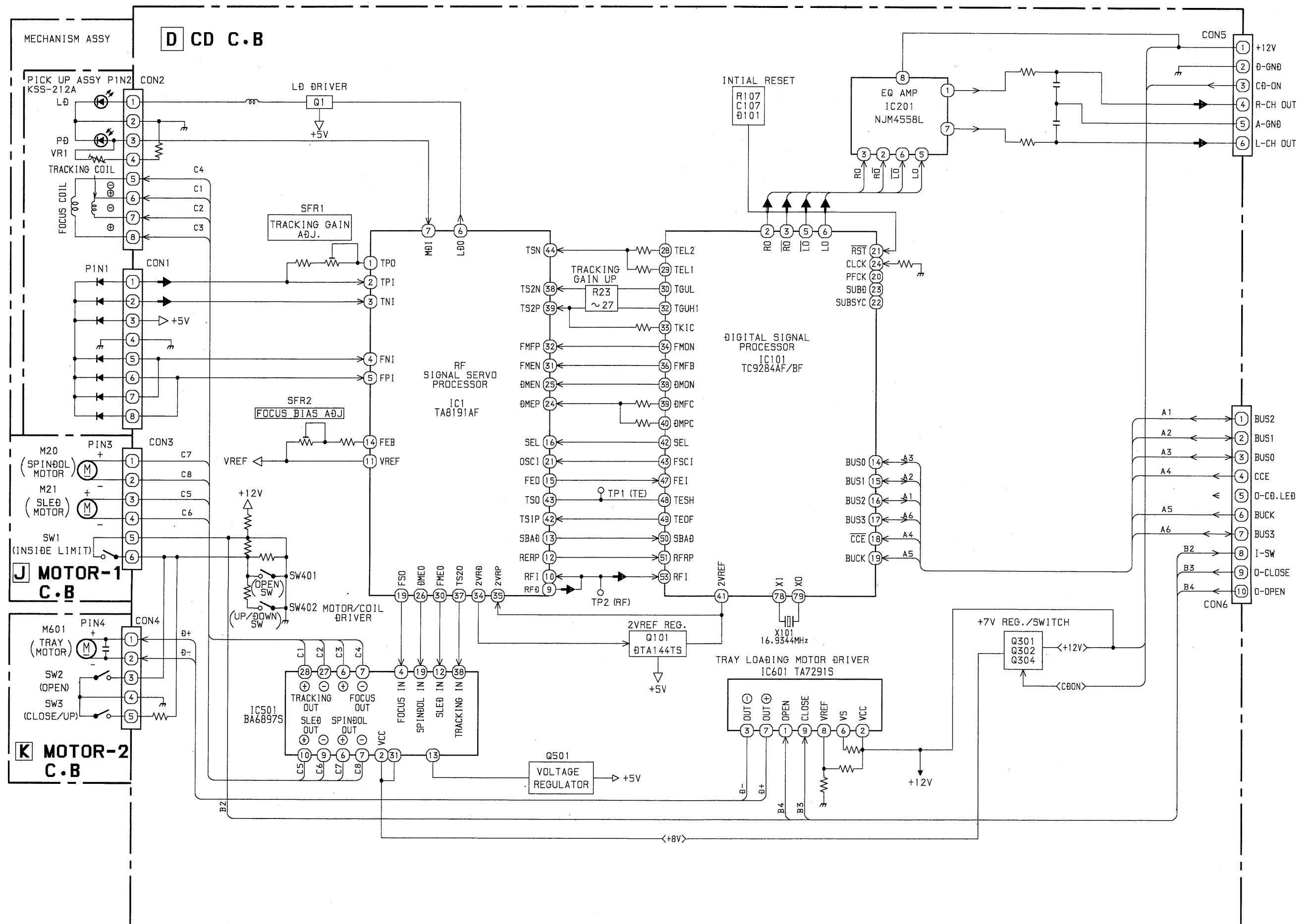


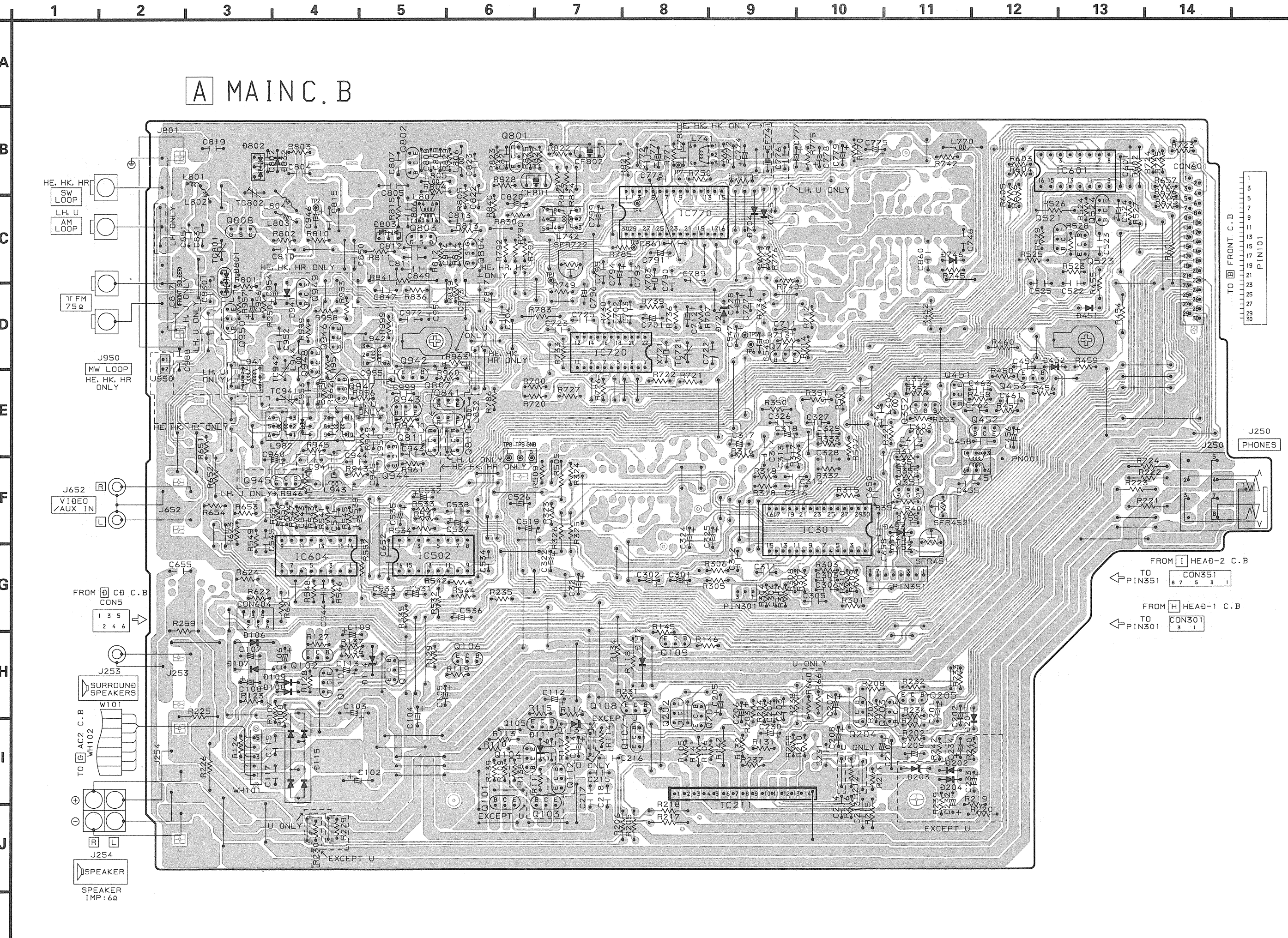
BLOCK DIAGRAM – 3 (EE,K,EZ)

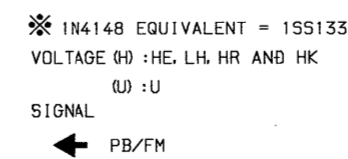


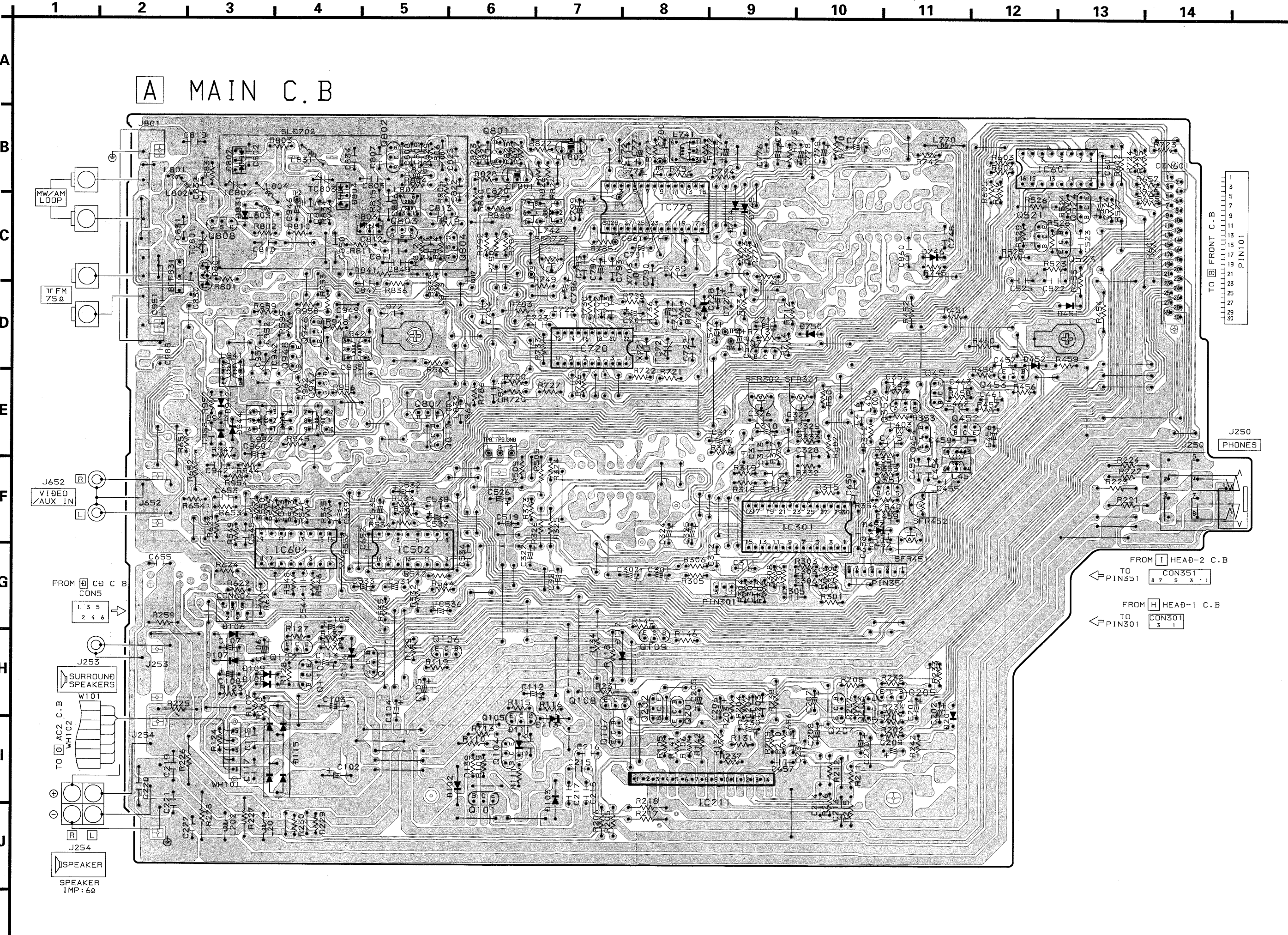
BLOCK DIAGRAM – 4 (MAIN / FRONT)





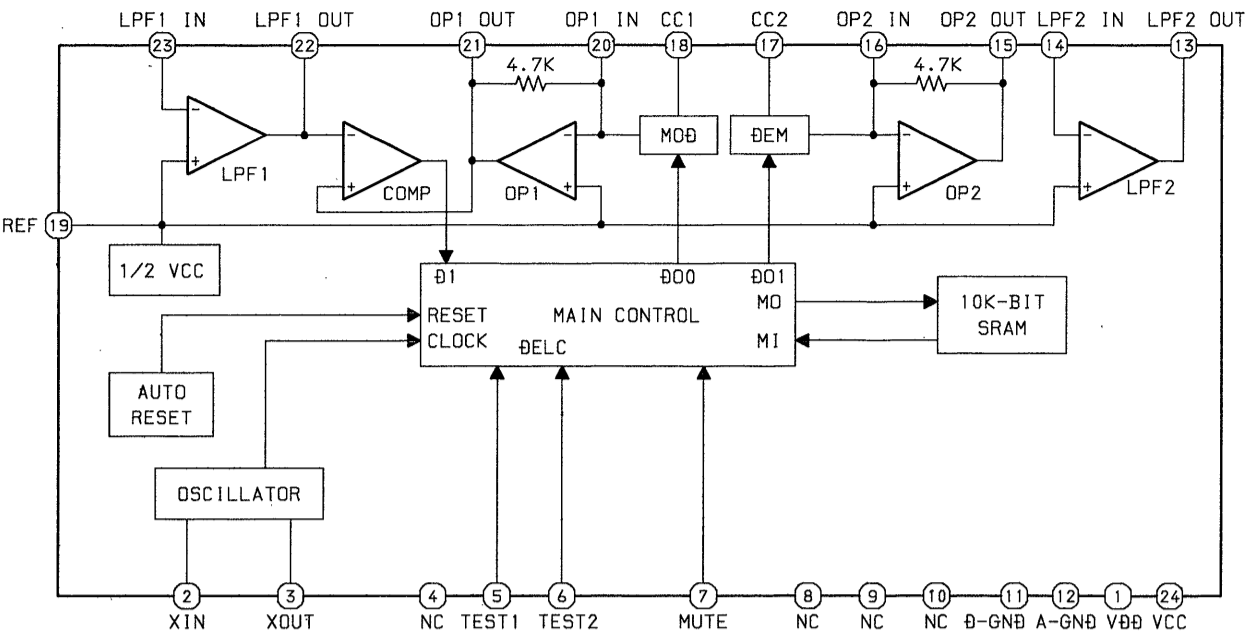




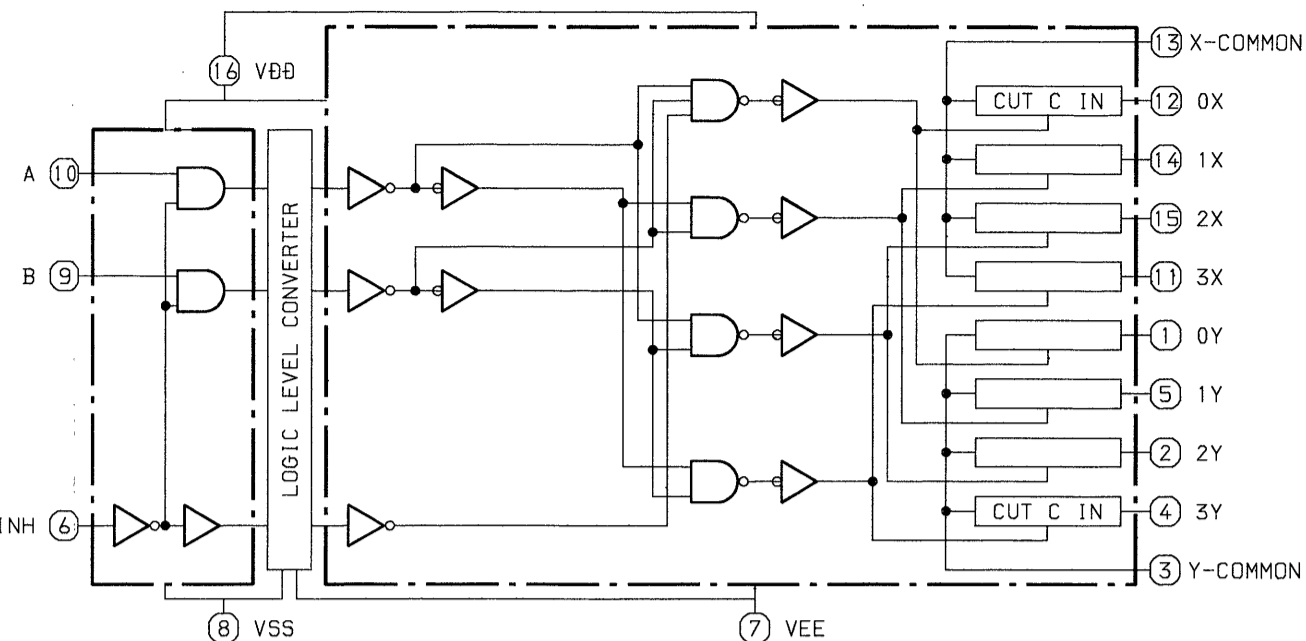


IC BLOCK DIAGRAM - 1

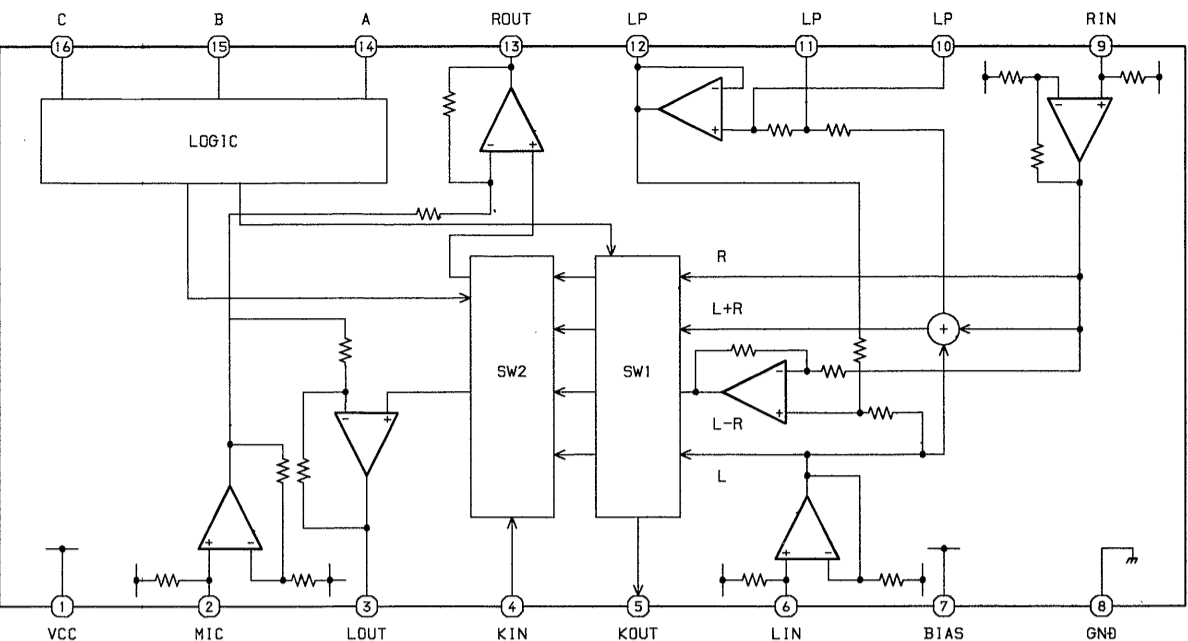
IC, M65843FP



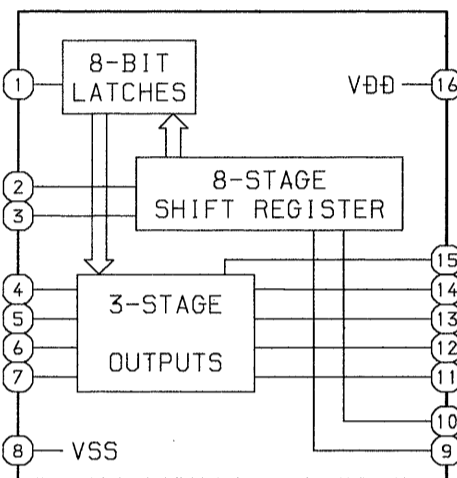
IC, TC4052BP



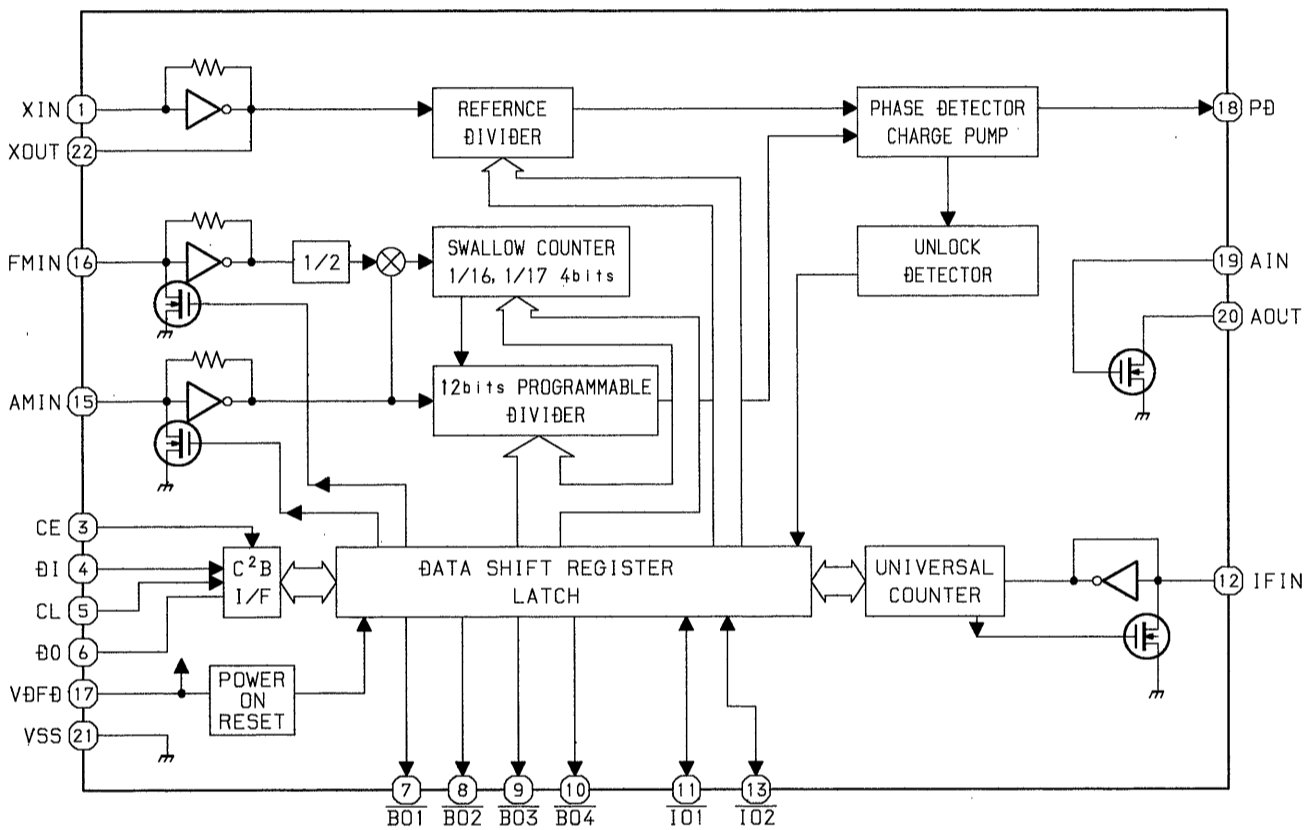
IC, BA3837IC



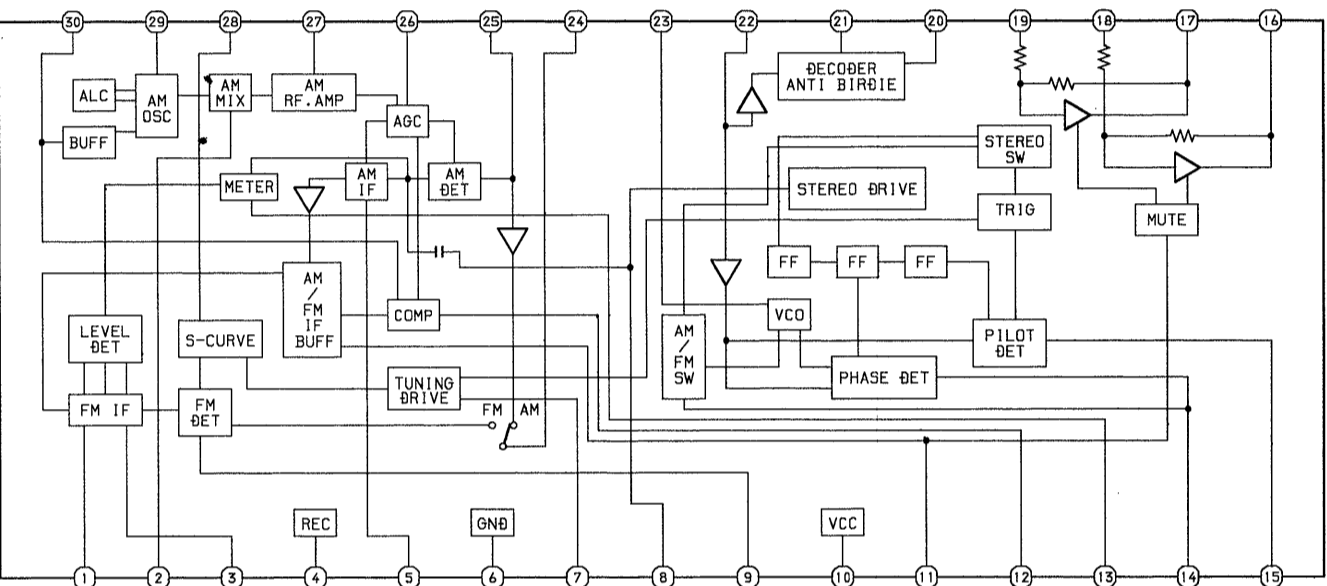
IC, TC4094BP



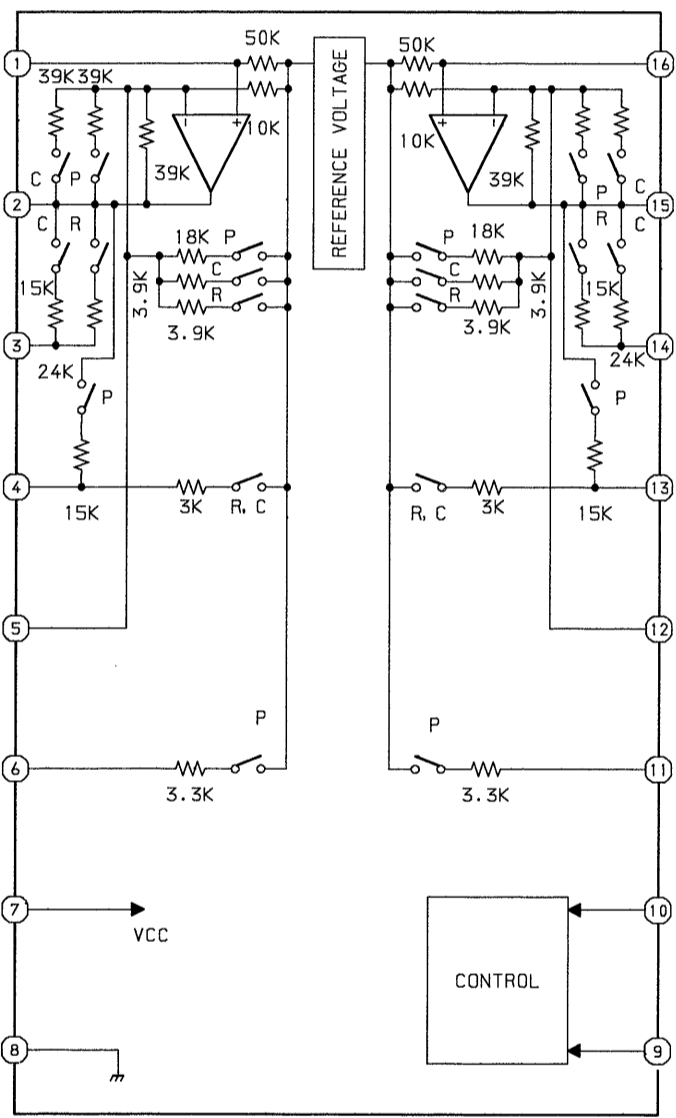
IC, LC72131



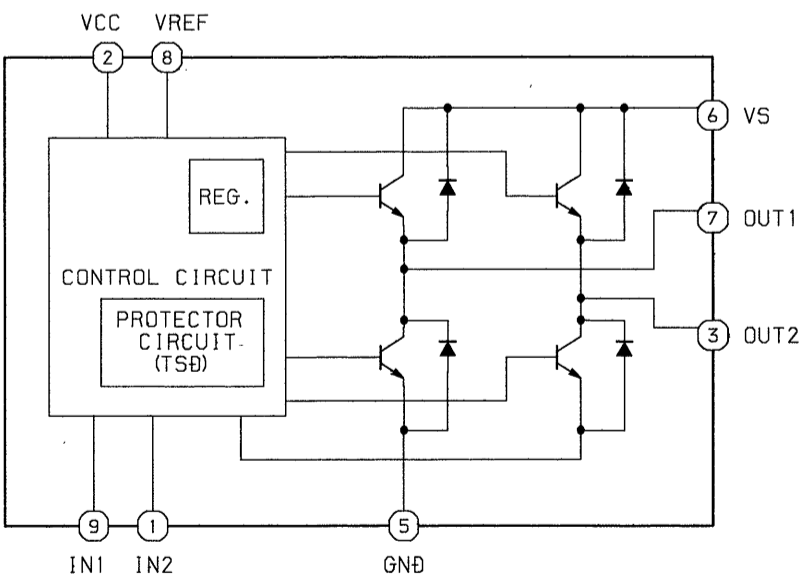
IC, LA1836



IC, M62412P



IC, TA7291S

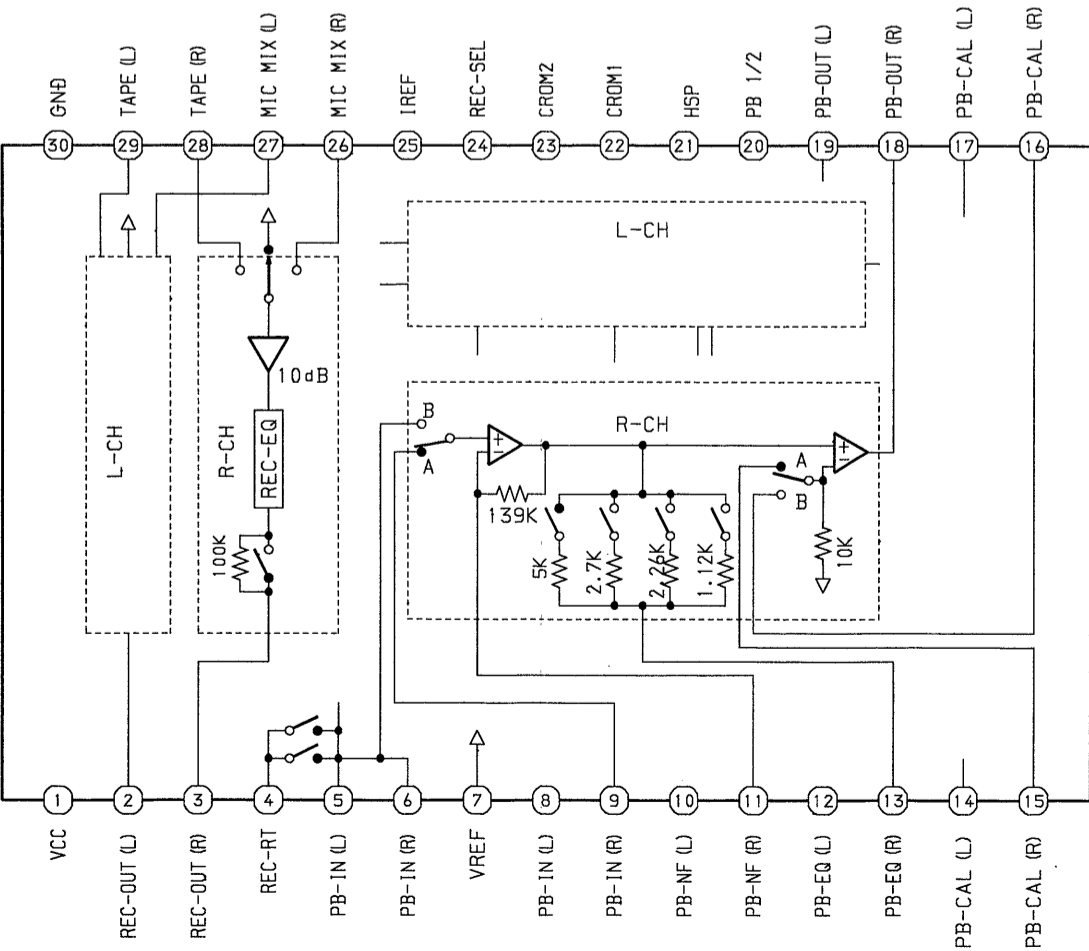


TRUTH TABLE

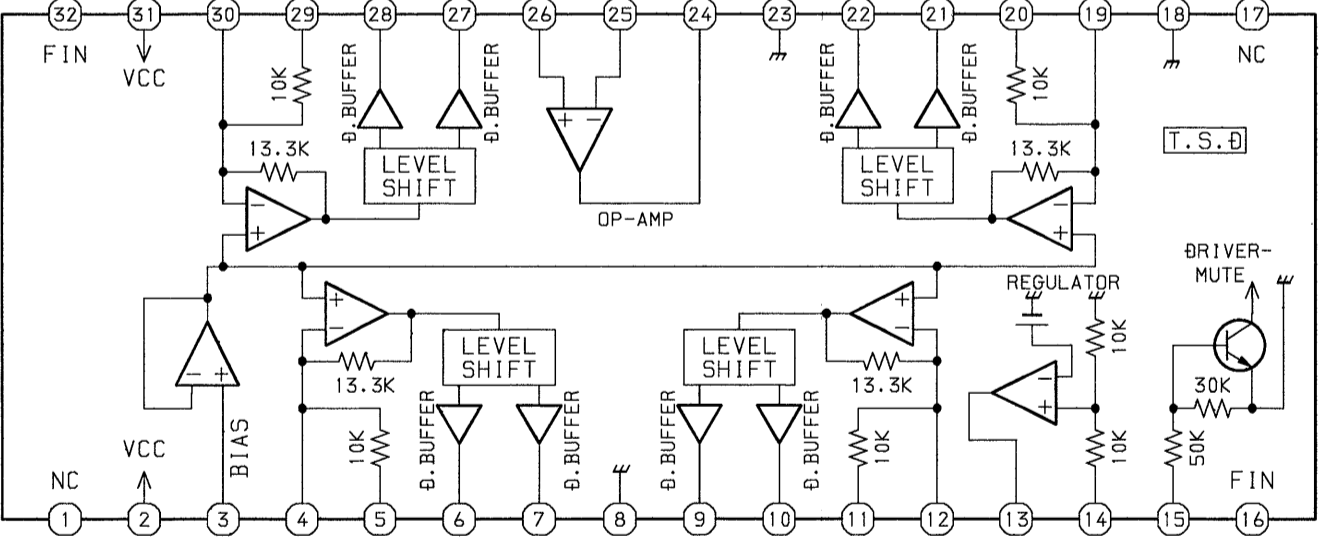
INPUT		OUTPUT		MODE
IN1	IN2	OUT1	OUT2	
0	0	∞	∞	STOP
1	0	H	L	CW
0	1	L	H	CCW
1	1	L	L	BRAKE

∞ : HI IMPEDANCE
NOTE : INPUT "H" ACTIVE

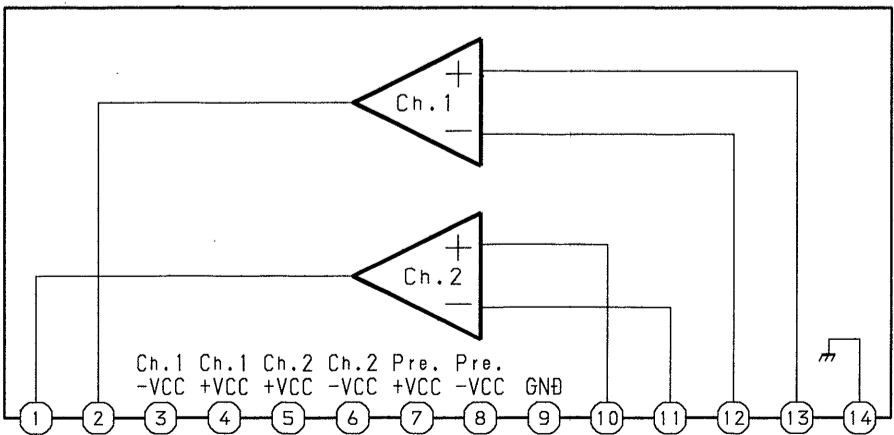
IC, HA12185NT



IC, BA6897S



IC, STK405-030
IC, STK405-050



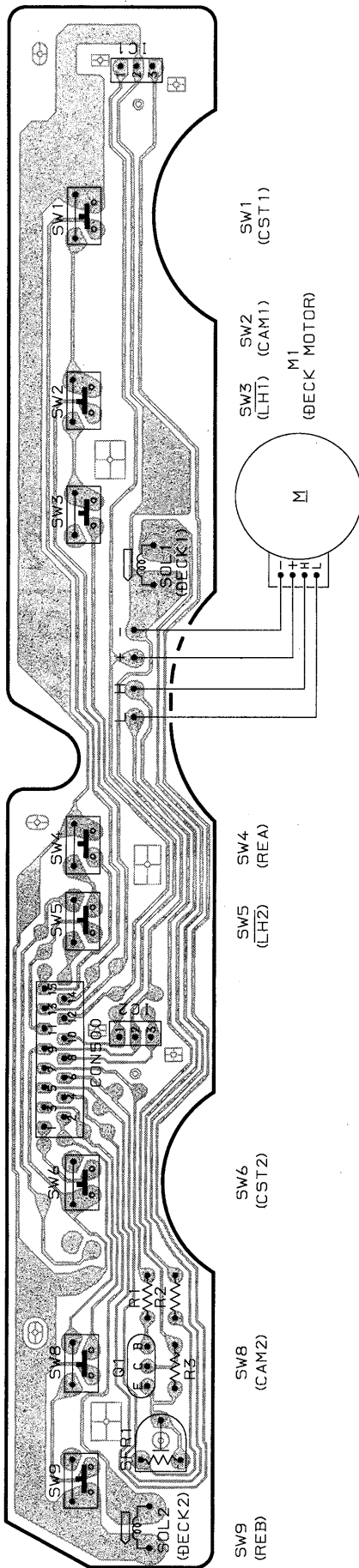
T.S.D:Thermal shift down circuit
D.BUFFER:Drive Buffer

1 2 3 4 5 6 7 8 9 10

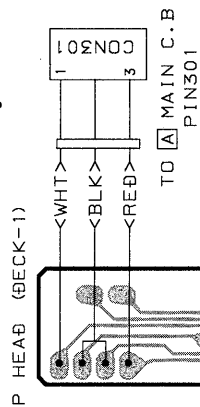
TO [B] FRONT C.B.
CON502

[E] DECK C.B.

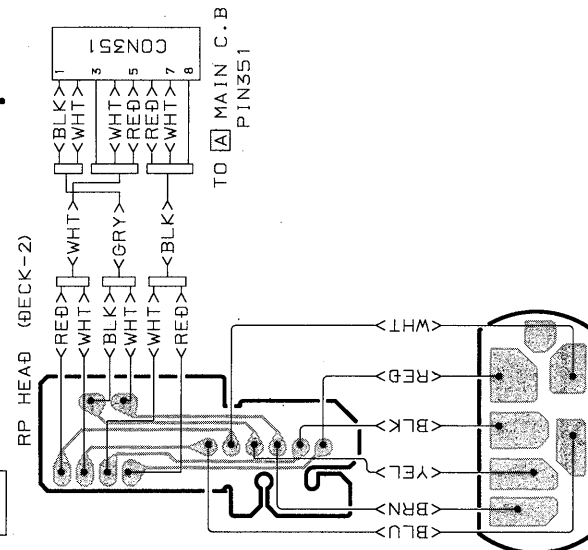
1 3 5 7 9 11 13 15 FT101

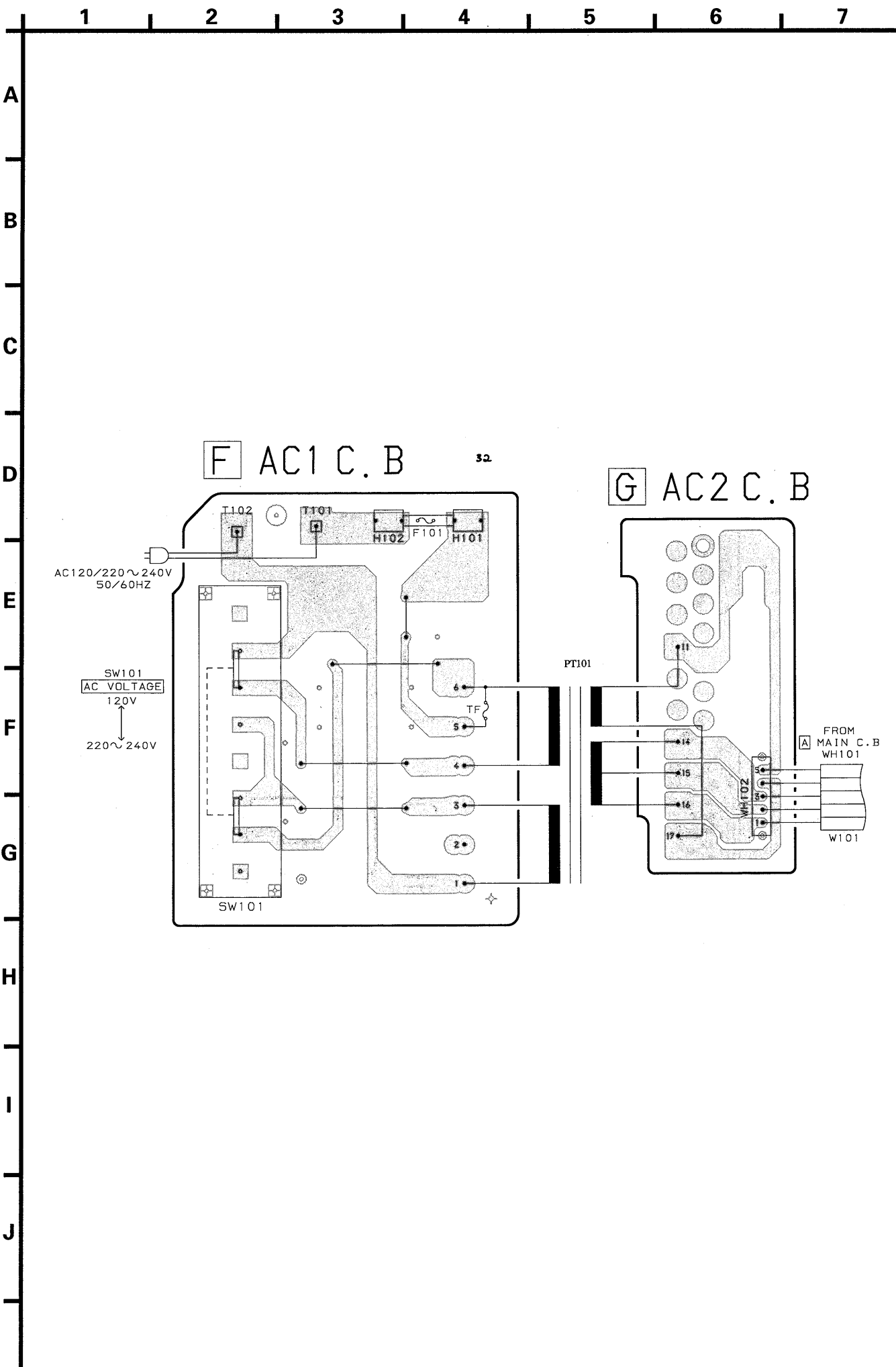


[H] HEAD-1 C.B.

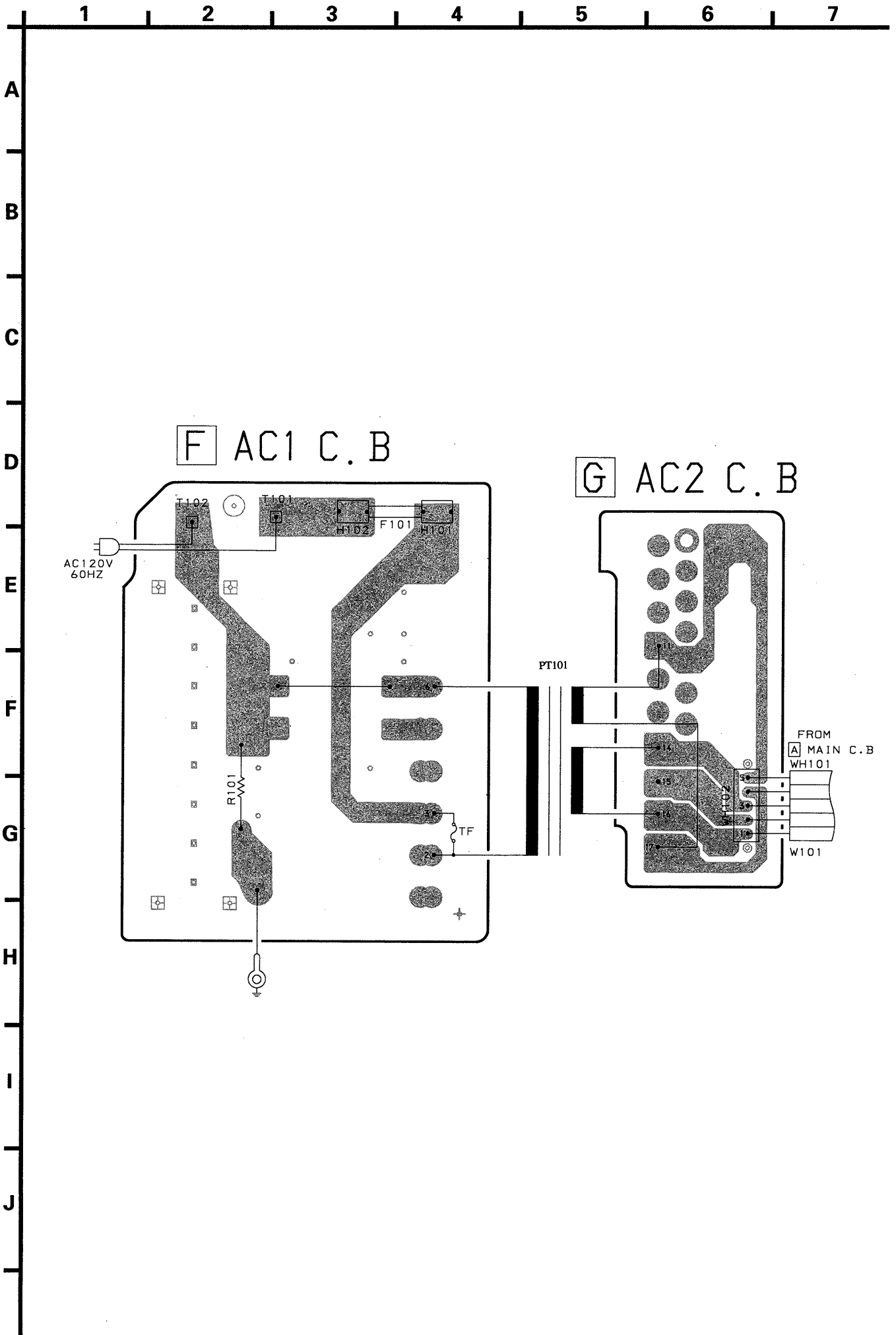


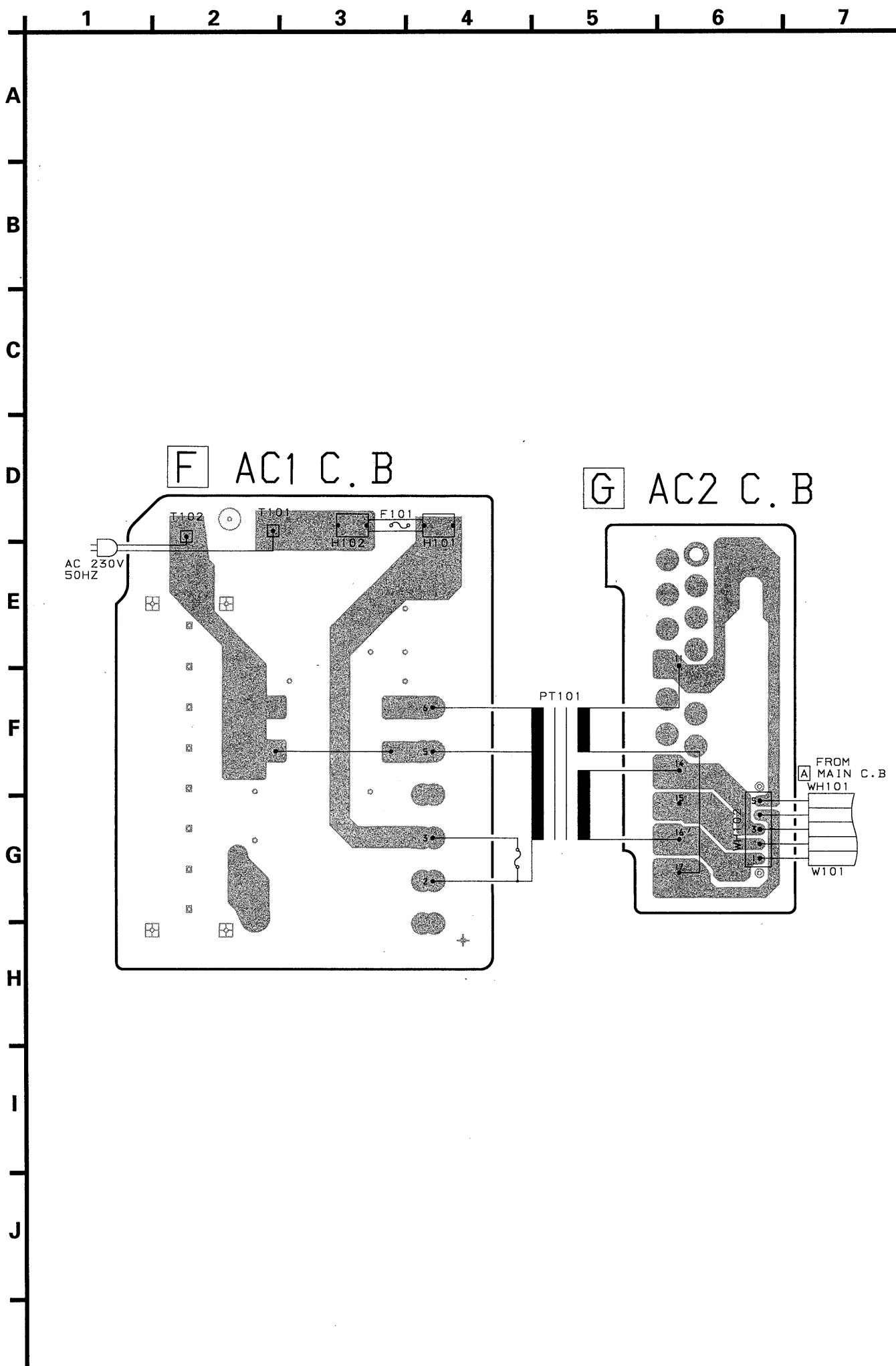
[I] HEAD-2 C.B.

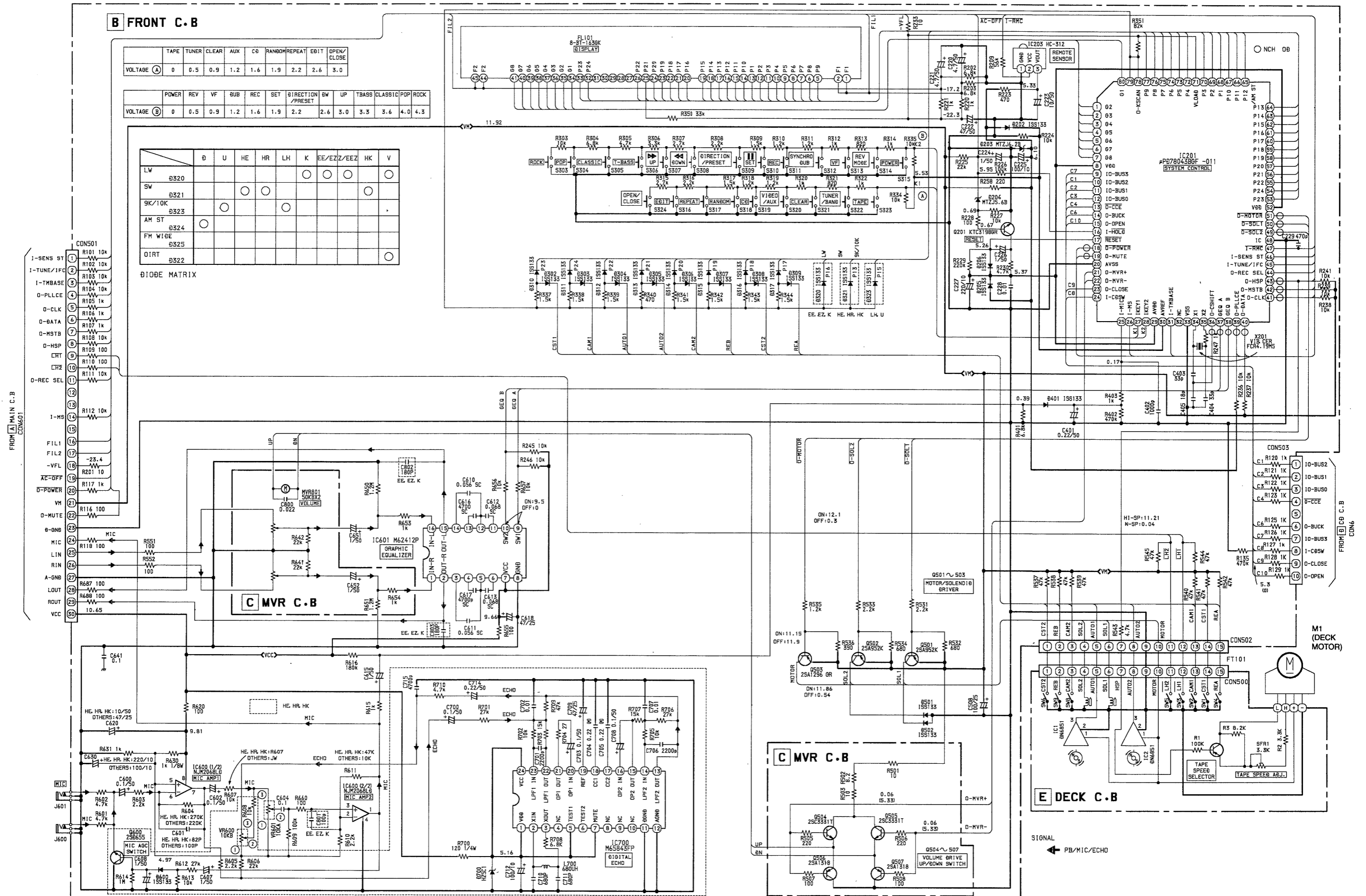




WIRING - 5 (U)







A

B

C

D

E

F

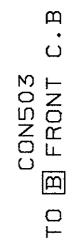
G

H

1

J

1



PIN 1

PIN 2

- 39 -



SW1

INSIDE LIMIT SW

M20
SPINDLE MOTOR

M21
SLED MOTOR

FT103

6
5
3
1

TO MAIN C.B

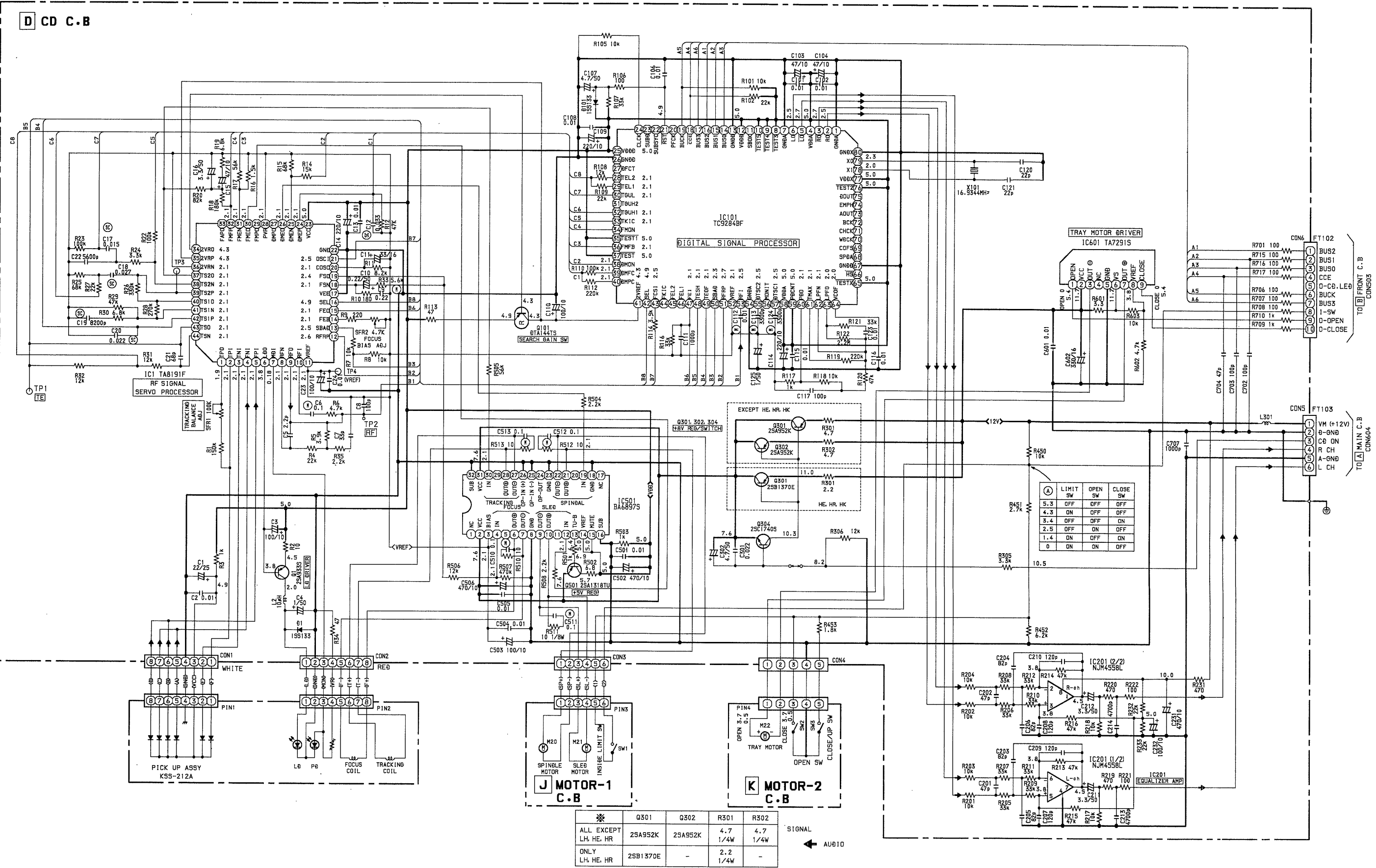
CON604

K

PICK UP ASSY

PIN1
PIN2

- 40 -



IC DESCRIPTION

IC, TC9284BF

Pin No.	Pin Name	I/O	Description
1	GND A	-	Analog GND terminal .
2	RO	O	R-channel in-phase output .
3	\overline{RO}	O	R-channel out of phase output .
4	VDD A	-	D/A convertor supply terminal .
5	\overline{LO}	O	L-channel in-phase output .
6	LO	O	L-channel out of phase output .
7	GND A	-	D/A convertor ground terminal .
8	$\overline{TEST3}$	I	Test terminal .
9	$\overline{TEST4}$	I	Test terminal .
10	$\overline{TEST5}$	I	Test terminal .
11	SBOK	O	Subcode Q data CRC check data output terminal . OK when "H". (Not used)
12	VDDD	-	Digital supply terminal .
13	GNDD	-	Digital ground terminal .
14	BUS0	I/O	Command and data send / receive I / O terminal .
15	BUS1		
16	BUS2		
17	BUS3		
18	\overline{CCE}	I	Chip enable signal input terminal for command and data send / receive . Bus line active when "L" .
19	BUCK	I	Command and data send / receive clock input terminal .
20	PFCK	O	Playback data read clock output terminal . (Not used)
21	\overline{RST}	I	Reset input terminal . Internal system reset when "L" .
22	SUBSYC	O	Subcode synchronisation terminal . (Not used)
23	SUBD	O	Subcode P-W output terminal . (Not used)
24	CLCK	I	Subcode P-W data read-out clock input terminal .
25	VDDD	-	Digital supply terminal .
26	GNDD	-	Digital ground terminal .
27	DFCT	O	Defect detection signal output terminal . VREF when a defect signal is detected: Normally HiZ . (Not used.)
28	TEL2	O	Tracking gain adjustment analog switch output terminal . VREF or HiZ .
29	TEL1		
30	TGUL	O	Analog switch output terminal for switching the low range phase compensator of the tracking servo loop . HiZ (gain up) when shock signal is detected; VREF when gain up .
31	TGUH2	O	Analog switch output terminal for switching the middle and high range phase compensator of the tracking servo loop. HiZ (gain up) when shock signal is detected; normally VREF. TGUH1 is used when playing back in normal mode; TGUH2 when playing back in high speed mode. (TGUH2 is not used.)
32	TGUH1		
33	TKIC	O	Tracking actuator kick signal output terminal . Kicked to an external cylinder when "H"; an internal cylinder when "L" .

Pin No.	Pin Name	I/O	Description			
34	FMON	O	Feed servo ON/OFF analog switch output terminal . (Pin 35 is not used)			
			Feed servo	ON	OFF	
			FMON	HiZ	VREF	
35	TEST1	I	Test terminal .			
36	FMFB	O	Feed motor FWD/BWD operation control signal output terminal . Feed to an external cylinder when "H"; feeds to an internal cylinder when "L" .			
37	TEST	I	Test terminal. Normally "H" or open. (Not used.)			
38	DMON	O	Analog switch output terminal for switching the gain of the disk motor drive circuit .			
39	DMFC	O	Disk motor CLV servo AFC signal output terminal .			
			Command	DMFC output	Operation	
			DMFK	H	Motor accelerated	
			DMSV	PWM	CLV servo ON	
			DMBK	L	Motor decelerated	
			DMOFF	VREF	CLV servo OFF	
40	DMPC	O	Disk motor CLV servo APC signal output terminal .			
41	2VREF	I	Two times reference voltage input terminal . (VREF x 2)			
42	SEL	O	Servo mode indication signal output terminal .			
			SEL	LD ON/OFF	Focus servo	Operation mode
			L	OFF	OFF	LD OFF
			HiZ	ON	OFF	Focus search
			H	ON	ON	Normal play etc., (Focus servo ON:FOK)
43	FCSI	O	Focus actuator drive signal output terminal in focus search mode .			
			Command	FKIC output	Operation	
			FGASR	H	Lens distant from disk	
			FGSS	L	Lens near disk	
			Others	HiZ	Other than focus search	
44	FKIC	O	Focus actuator drive signal output terminal in focus gain adjustment mode . (Not used.)			
			Command	FKIC output	Operation	
			FGASR	H	Lens distant from disk	
			FGSS	L	Lens near disk	
			Other	HiZ	Other than focus gain adjustment	
45	FEL2	O	Focus gain adjustment analog switch output terminal. (Not used.)			
46	FEL1					
47	FEI	I	Focus error signal input terminal .			
48	TESH	I	Analog switch input terminal for sample-holding of the tracking error signal .			
49	TEOF	O	Analog switch input terminal for tracking servo ON/OFF . VREF when tracking servo is OFF .			
50	SBAD	I	Sub-beam add signal input terminal .			
51	RFRP	I	RF ripple signal input terminal .			

Pin No.	Pin Name	I/O	Description	
52	VREF	I	Reference voltage input terminal . (+2.2V)	
53	RFI	I	RF signal input terminal .	
54	GNDA	-	Analog ground terminal .	
55	DTSC2	O	EFM signal negative-phase output terminal for data slice control .	
56	MONIT	O	Control terminal . (Not used.)	
57	DTSC1	O	EFM signal positive-phase output terminal for data slice control .	
58	VDDA	-	Analog power voltage terminal . (+5V)	
59	PDCNT	I	PDO output control terminal . PDO output is involuntarily set to HiZ when "L" .	
60	PDO	O	Output terminal for phase difference signal between EFM and PLCK signals .	
61	TMAX	O	TMAX signal output terminal . HiZ in system lock .	
			TMAX cycle	TMAX output
			Longer than specified cycle	L
			Shorter than specified cycle	H(2VREF)
			Specified cycle	HiZ
62	LPFN	I	LPF amplifier negative-phase input terminal for PLL .	
63	LPFO	O	LPF amplifier output terminal for PLL .	
64	VCOF	I	VCO filter terminal .	
65	TEXTX	I	Test terminal .	
66	$\overline{\text{HS}}$	O	High- speed monitor output terminal . High-speed mode when "L" . (Not used.)	
67	GNDD	O	Digital ground terminal .	
68	SPDA	O	Processor status signal output terminal .	
			Correction / discrimination data, memory buffer capacity, etc. (Not used.)	
69	COFS	O	Correction system frame frequency signal output terminal. 7.35kHz (Not used.)	
70	WDCK	O	Word clock output terminal . Normally 88.2kHz . (Not used.)	
71	CHCK	O	Channel clock output terminal . Normally 44.1kHz . (Not used.)	
72	BCK	O	Bit clock output terminal . Normally 1.4112MHz . (Not used.)	
73	AOUT	O	Audio data output terminal . (Not used.)	
74	EMPH	O	Emphasis ON/OFF indication signal output terminal . emphasis on when "H" .	
75	DOUT	O	Digital OUT output terminal . (Not used.)	
76	TEST2	I	Test terminal .	
77	VDDX	-	Crystal supply terminal .	
78	X1	I	Crystal oscillator connection terminal .	
79	X0	O		
80	GNDX	-	Crystal ground terminal .	

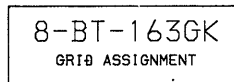
Pin No.	Pin Name	I/O	Description
1~7	G2~G8	O	FL display grid output .
8	VDD	-	Power supply . (+5.5V)
9~12	IO BUS3~IO BUS0	I/O	CD/FRONT u-con command / data bus line .
13	$\overline{\text{O-CCE}}$	O	Chip enable signal input terminal for command & data send / receive .
14	O-BUCK	O	Command & data send / receive clock input terminal .
15	O-OPEN	O	CD tray open signal .
16	$\overline{\text{I-HOLD}}$	I	When AC power is not supplied, the controller is held. Clock stop & memory maintain .
17	$\overline{\text{RESET}}$	I	System reset input .
18	$\overline{\text{O-POWER}}$	O	Power ON/OFF control .
19	O-MUTE	O	System mute .
20	AVSS	-	Gnd
21	O-MVR+	O	Motor volume UP signal .
22	O-MVR-	O	Motor volume DOWN signal .
23	O-CLOSE	O	CD tray close signal .
24	I-CDSW	I	CD tray OPEN/CLOSE switch signal .
25	I-MIC	I	Mic input signal .
26	I-MS	I	Music sensor input signal .
27	I-KEY 1	I	Key matrix input .
28	I-KEY 2	I	Key matrix input .
29	AVDD	-	A/D convertor power supply .
30	AVREF	I	A/D convertor reference voltage .
31	I-TMBASE	I	Clock pulse (8 Hz) input from PLL IC (LC72131) .
32	NC	-	Not used .
33	VSS	-	GND .
34	X1	-	4.19 MHz oscillator circuit .
35	X2	-	
36	O-CSHIFT	O	Center frequency switch .
37	GEQ A	O	Graphic equalizer control signal .
38	GEQ B	O	Graphic equalizer control signal .
39	O-PLLCE	O	Chip enable output for tuner PLL IC (LC72131) .
40	O-DATA	O	Serial data to main board .
41	O-CLOCK	O	Clock signal to main board .
42	O-MSTB	O	Strobe signal to main board .
43	O-HSP	O	Motor high speed control signal .
44	O-REC SEL	O	Tape / Aux recording selection .
45	I-TUNE /IFC	I	Tuner stereo detect input /IF count serial data input .
46	I-SENS ST	I	Stereo ON signal input .
47	$\overline{\text{I-RMC}}$	I	Remote control input .
48	IC	-	Internally connected to Vss .
49	$\overline{\text{O-SOL2}}$	O	Deck 2 plunger ON/OFF output .

Pin No.	Pin Name	I/O	Description
50	O-SOL1	O	Deck 1 plunger ON/OFF output .
51	O-MOTOR	O	Deck motor ON/OFF output .
52	VDD	-	Power supply . (+5.5V)
53	P23/CST1	O/I	FL display segment output / DECK 1 cassette switch input .
54	P24/CAM1	O/I	FL display segment output / DECK 1 cam switch input .
55	P22/AUTO1	O/I	FL display segment output / DECK 1 auto stop signal input .
56	P21/AUTO2	O/I	FL display segment output / DECK 2 auto stop signal input .
57	P20/CAM2	O/I	FL display segment output / DECK 2 cam switch input .
58	P19/REB	O/I	FL display segment output / DECK 2 side B Rec switch input .
59	P18/CST2	O/I	FL display segment output / DECK 2 cassette switch input .
60	P17/REA	O/I	FL display segment output / DECK 2 side A Rec switch input .
61	P16/LW	O/I	FL display segment output /Long wave select input .
62	P15/9/10K STEP	O/I	FL display segment output / AM 10k step selection input .
63	P14/FM WIDE	O/I	FL display segment output / FM wide select input .
64	P13/SW	O/I	FL display segment output / Short wave select input .
65	P12/AMST	O/I	FL segment output / AM stereo select input .
66	P11/OIRT	O/I	FL display segment output /OIRT select input .
67	P10	O	FL display segment output .
68~70	P1~P3	O	FL display segment output .
71	VLOAD	-	Negative pull down voltage .
72~77	P4~P9	O	FL display segment output .
78	O-KSCAN	O	Switch scan timing output.
79	-	-	Not used .
80	G1	O	FL display grid output .

Pin No.	Pin Name	I/O	Description
1	TPO	O	Sub-beam I-V amplifier (TP AMP) output terminal .
2	TPI	I	Sub-beam I-V amplifier (TP AMP) input terminal .
3	TNI	I	Sub-beam I-V amplifier (TP AMP) input terminal .
4	FNI	I	Main-beam I-V amplifier (FN AMP) input terminal .
5	FPI	I	Main-beam I-V amplifier (FP AMP) input terminal .
6	LDO	O	Laser diode amplifier (LD AMP) output terminal .
7	MDI	I	Monitor photo diode amplifier (MD AMP) input terminal .
8	RFN	I	RF amplifier (RF AMP) negative-phase input terminal .
9	RFO	O	RF amplifier (RF AMP) output terminal .
10	RFI	I	RF ripple signal forming circuit input terminal .
11	VREF	O	Reference voltage output terminal . (+2.1V)
12	VFRP	O	RF ripple signal output terminal .
13	SBAD	O	Scratch detection signal output terminal .
14	FEB	I	Focus error balance adjustment input terminal .
15	FEO	O	Focus error amplifier (FE AMP) output terminal .
16	SEL	I	Analog switch control signal input terminal .
17	VEE	-	Power terminal . (GND)
18	FSN	I	Focus output amplifier (FS AMP) negative-phase input terminal .
19	FSO	O	Focus output amplifier (FS AMP) output terminal .
20	COSC	O	Capacitor connection terminal for focus search signal generation .
21	OSCI	I	Built-in power supply control input terminal for focus search signal generation .
22	GND	-	GND
23	VCC	I	Power supply terminal . (+5V)
24	DMEP	I	Disk motor amplifier (DM AMP) positive-phase input terminal .
25	DMEN	I	Disk motor amplifier (DM AMP) negative-phase input terminal .
26	DMEO	O	Disk motor amplifier (DM AMP) output terminal .
27	DMPO	O	Disk motor drive amplifier (DM AMP) output terminal . (Not used.)
28	PVR	I	Drive amplifier reference voltage input terminal .
29	FMPO	O	Feed motor drive amplifier (FMP AMP) output terminal . (Not used)
30	FMEO	O	Feed motor drive amplifier (FM AMP) output terminal .
31	FMEN	I	Feed motor amplifier (FM AMP) negative-phase input terminal .
32	FMEP	I	Feed motor amplifier (FM AMP) positive-phase input terminal .
33	FAPO	O	Focus actuator drive amplifier (FAP AMP) output terminal . (Not used)
34	2VRO	O	2VREF amplifier (2VREF AMP) output terminal .
35	2VRP	I	2VREF amplifier (2VREF AMP) positive-phase input terminal .
36	2VRN	I	2VREF amplifier (2VREF AMP) negative-phase input terminal .
37	TS2O	O	Tracking servo amplifier 2 (TS2 AMP) output terminal .
38	TS2N	I	Tracking servo amplifier 2 (TS2 AMP) negative-phase input terminal .
39	TS2P	I	Tracking servo amplifier 2 (TS2 AMP) positive-phase input terminal .
40	TS1O	O	Tracking servo amplifier 1 (TS1 AMP) output terminal .

Pin No.	Pin Name	I/O	Description
41	TS1N	I	Tracking servo amplifier 1 (TS1 AMP) negative-phase input terminal .
42	TS1P	I	Tracking servo amplifier 1 (TS1 AMP) positive-phase input terminal .
43	TSO	O	Tracking output amplifier (TS AMP) output terminal .
44	TSN	I	Tracking output amplifier (TS AMP) negative-phase input terminal .

FL, 8-BT-163GK



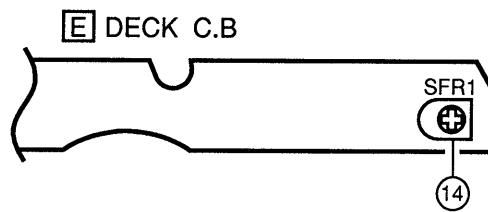
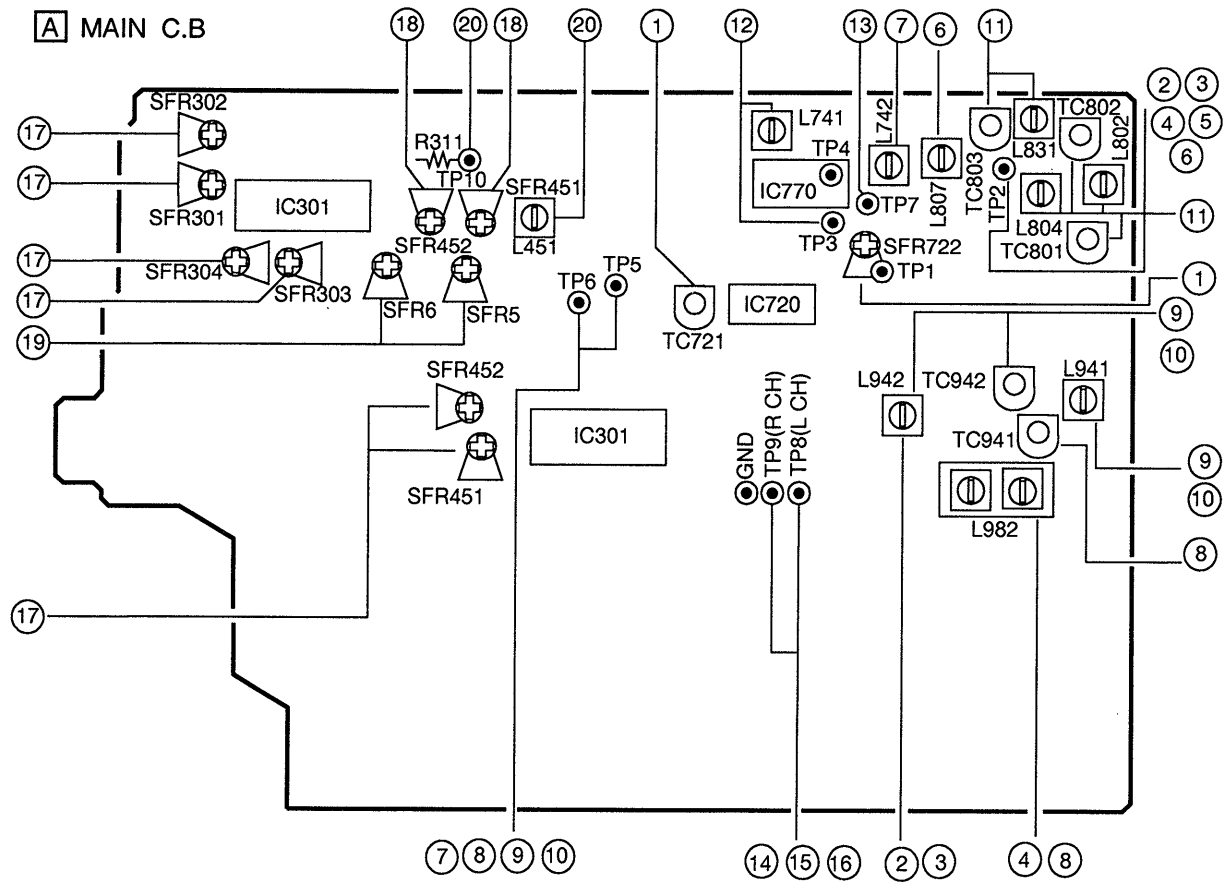
83-NEG-632-01

	B0	7G	6G	5G	4G	3G	2G	1G
P1		2d	2d	2d	2d	2d	SLEEP	20
P2	T-BASS	2j, 2p	2j, 2p	2j, 2p	2j, 2p	2j, 2p	RANDOM	19
P3	BBE	2n	2n	2n	2n	2n		18
P4		2r	2r	2r	2r	2r		17
P5		2c	2c	2c	2c	2c	REC	16
P6	AUTO	2e	2e	2e	2e	2e	-	15
P7	O	2m	2m	2m	2m	2m	-	14
P8	S2	2g	2g	2g	2g	2g	PRGM	13
P9	-	2f	2f	2f	2f	2f	AI	12
P10		2b	2b	2b	2b	2b	EDIT	11
P11	-	2k	2k	2k	2k	2k	-	10
P12	B1	2h	2h	2h	2h	2h	-	9
P13		2a	2a	2a	2a	2a	-	8
P14		-	col 2	col 1 (UP)	-	KHZ	-	7
P15	B2	-		MONO	-	S	-	6
P16		-	0p	col 1 (DOWN)	-	MHZ	-	5
P17	B3		1d	1d	1d	1d	-	4
P18		-	1e	1e	1e	1e	-	3
P19	B4	AM	1c	1c	1c	1c	-	2
P20	B5	-	1q	1q	1q	1q	-	1
P21	B6	/	1f	1f	1f	1f	-	S1
P22	B7	-	1b	1b	1b	1b	-	-
P23	B8	PM	1a	1a	1a	1a	-	-
P24	-	-	-	-	-		-	-

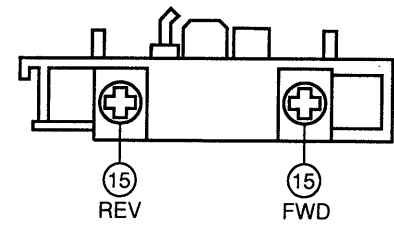
NOTE 1) F1, F2 ---- Filament
2) NP ----- NO pin
3) NC ----- NO connection
4) BL ----- Datum Line
5) 1G~11G -- Grid

[illegible]

ADJUSTMENT – 1 <TUNER / DECK>



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



< TUNER SECTION >

1. Clock Frequency Adjustment

Settings : • Test point : TP1 (CLK IC770 pin30)
• Adjustment location : TC721

Method : Set to MW 1710kHz (HE, HR, HK, LH, U), 1602kHz (EE,K,EZ) and adjust TC721 so that the test point becomes 2160kHz \pm 0.01kHz (HE, HR, HK, LH, U), 2052kHz \pm 0.01kHz(EE,K,EZ).

2. LW VT Adjustment <EE,K,EZ>

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

Method : Set to LW 144kHz and adjust L942 so that the test point becomes 1.5V \pm 0.05V.

3. SW VT Adjustment <HE, HR, HK>

Settings : • Test point : TP2 (VT)
• Adjustment location : L958

Method : Set to SW 17.9MHz and adjust L942 so that the test point becomes 8.0V \pm 0.05V.

4. MW VT Adjustment <HE, HR, HK>

Settings : • Test point : TP2 (VT)
• Adjustment location : L982

Method : Set to MW 1710kHz and adjust L982 so that the test point becomes 8.5V \pm 0.05V. Then set to MW 530kHz and check that the test point is more than 0.3V.

5. MW VT Check <LH, U, EE,EZ,K>

Settings : • Test point : TP2 (VT)
Method : Set to MW 1710kHz (LH, U), 1602kHz (EE,K,EZ) and check that the test point is 6.5V \pm 1.0V (LH, U), 6.8V \pm 1.0V (EE,K,EZ).

6. FM VT Adjustment

Settings : • Test point : TP2
Adjustment location : L807

Method : Set to FM 87.5MHz and adjust L807 so that the test point becomes 2.9V \pm 0.05V.

7. AM IF Adjustment

Settings : • Test point : TP5, TP6
L742 450kHz

8. MW Tracking Adjustment <HE, HR, HK>

Settings : • Test point : TP5, TP6
• Adjustment location :
L982 600kHz
TC941 1400kHz

Method : Set up TC941 to center before adjustment. The level at 600kHz is adjusted to MAX by L982. Then the level at 1400kHz is adjusted to MAX by TC941.

<LH, U, EE,K,EZ>

Settings : • Test point : TP5, TP6
• Adjustment location : L982

Method : Set to MW 1000kHz (LH, U), 999kHz (EE,K,EZ) and adjust L982 so that the test point becomes maximum.

9. SW Tracking Adjustment <HE, HR, HK>

Settings : • Test point : TP5, TP6
• Adjustment location :
L941 5.95MHz
TC942 17.9MHz

Method : Set up TC953 to center before adjustment. The level at 5.95MHz is adjusted to MAX by L941. Then the level at 17.9MHz is adjusted to MAX by TC942.

10. LW Tracking Adjustment <EE, K, EZ>

Settings : • Test point : TP5, 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 adjusted by TC942.

11. FM Tracking Adjustment

Settings : • Test point : TP5, TP6
L802,L804.....87.5MHz
L831(EE,K,EZ)
L801,TC802.....108MHz
L803(EE,K,EZ)

12. DC Balance / Mono Distortion Adjustment

Settings : • Test point : TP3 (IC 770 pin28)
TP4 (IC 770 pin4)
TP5, TP6 (Distortion)
• Adjustment location : L741
• Input level : 54dB

Method : Set to FM 98.0MHz and adjust L741 so that the voltage between TP3 and TP4 becomes 0V \pm 0.04V. Next, check that the distortion is less than 1.3%.

13. Auto Stop Level Adjustment

Settings : • Test point : TP7
• Adjustment location : SFR722
• Input level : 23dB

Method : Set to FM 98.0 MHz and adjust voltage low (about 0.01V) by SFR722. After that voltage

PRACTICAL SERVICE FIGURE

< DECK SECTION >

14. Tape Speed Adjustment

Settings : • Test tape : TTA-100

• Test point : TP8, TP9

• Adjustment location : SFR1

Method : Play back the test tape by DECK 2, on FWD PLAY (DECK 2) adjust for 3000Hz \pm 5Hz and to 45Hz of the FWD value during the REV mode .

15. Head Azimuth Adjustment

Settings : • Test tape : TTA-310

• Test point : TP8, TP9

• Adjustment location : Head azimuth adjustment screw

Method : Play back the 10kHz signal of the test tape and adjust screw so that the output becomes maximum. Next, perform on each FWD PLAY and REV PLAY mode.

16. PB Frequency Response Check (DECK 1, DECK 2)

Settings : • Test tape : TTA-300

• Test point : TP8, TP9

Method : Play back the 315Hz and 10kHz signals of the test tape and check that the output ratio of the 10kHz signal is with respect to that of the 315Hz signal is \pm 2dB.

17. REC/PB Frequency Response Adjustment

Settings : • Test tape : TTA-602

• Test point : TP8, TP9

• Input signal : 1kHz / 10kHz (LINE IN)

• Adjustment location : SFR451 (Lch)
SFR452 (Rch)

Method : Apply a 1kHz signal and REC mode. Then adjust OSC attenuator so that the output level at the TP8, TP9 becomes 21mV. Record and play back the 1kHz and 10kHz signals and adjust SFRs so that the output of the 10kHz signals becomes 0dB \pm 1dB with respect to that of the 1kHz signal.

<TUNER SECTION>

<FM SECTION>

S/N 50dB Quieting sensitivity :

35dB \pm 5dB

(87.5 / 98.0 / 108.0MHz)

Signal to noise ratio : More than 65dB
(98.0MHz)

Distortion : Less than 1.3%
(98.0MHz)

Stereo separation : More than 25dB (98.0MHz)

Intermediate frequency : 10.7MHz

<AM(MW) SECTION>

Sensitivity : 58dB \pm 6dB

(S/N 20 dB) [at 600kHz (LH, U)]

[at 603kHz (EXCEPT LU,U)]

56dB \pm 6dB

[at 1000 / 1410kHz (LH, U)]

[at 999 / 1404kHz (EXCEPT LH U)]

Distortion : Less than 1.5%

[at 1000kHz (LH, U)]

[at 999kHz (EXCEPT LH,U)]

Signal to noise ratio : More than 36dB

[at 1000kHz (LH,U)]

[at 999kHz (EXCEPT LH,U)]

Intermediate frequency : 450kHz

<SW SECTION> (HE, HR, HK)

Sensitivity : 37 ~ 45dB (5.95MHz)

(S/N 20dB)

30 ~ 38dB (12MHz, 17.9MHz)

Distortion :

Less than 1.5% (12MHz)

Signal to noise ratio:

More than 38dB (12MHz)

<LW SECTION> (EE,K,EZ)

Sensitivity : Less than 69dB (144kHz)

(S/N 20dB)

Less than 66dB (198kHz, 290kHz)

Distortion :

Less than 1.5% (198kHz)

Signal to noise ratio :

More than 30dB (198kHz)

<DECK SECTION>

Tape speed : 3000Hz \pm 45Hz

Wow & flutter : Less than 0.4% (R.M.S)

Take-up torque : 30 ~ 55g-cm (FWD, REV)

F.F & REW torque : 75 ~ 180g-cm

Back tension : 2 ~ 7g-cm (FWD, REV)

PB Output level : 2.8V \pm 1.5dB (SP OUT 2V)

REC/PB Output level : 2.0V - 3.5dB ~ 2.0V + 0.5dB
(SP OUT 2V)

Distortion (REC/PB) : Less than 2.0% (NORM, CrO2)

Noise level (PB) : HE,HR,HK,LH :

Less than 40mV / 200mV

(DOLBY OFF VOL MAX)

EE,K,EZ :

Less than 120mV / 180mV

(DOLBY OFF VOL MAX)

U:

Less than 110mV / 150mV

(DOLBY OFF VOL MAX)

Noise level (REC/PB) : Less than 35mV / 12mV

(DOLBY OFF NORM SP OUT 2V)

Less than 23mV / 8mV

(DOLBY OFF CrO2 SP OUT 2V)

Crosstalk : More than 60dB (1kHz, 0VU)

Channel separation : More than 40dB (1kHz, 0VU)

Erasing ratio :

More than 60dB (at 125Hz)

Frequency response :

63Hz \pm 4dB ~ 12.5kHz \pm 4dB

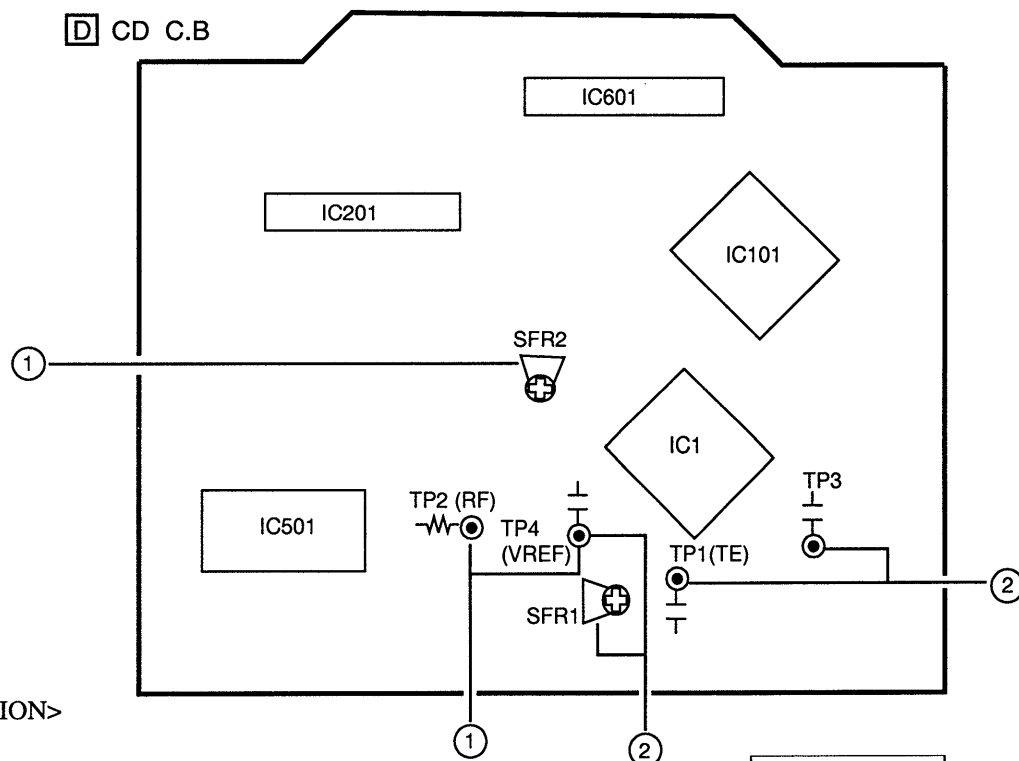
Test tape :

NORMAL : TTA-602

CrO2 : TTA-610

ADJUSTMENT – 2 <CD>

D CD C.B

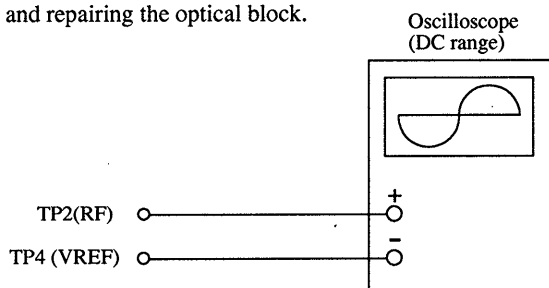


<CD SECTION>

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

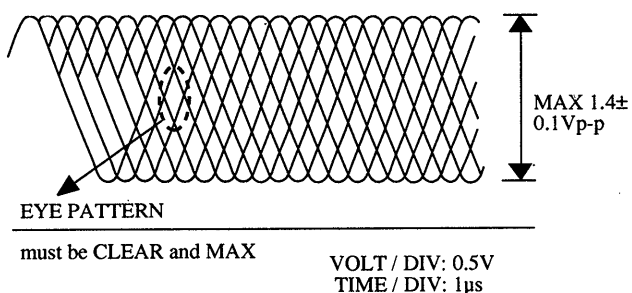
1. Focus Bias Adjustment

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



- 1) Connect an oscilloscope to the test points TP2 (RF) and TP4 (VREF).
- 2) Turn on the power switch.
- 3) Insert test disc TCD-782 (YEDS-18) and play back the second composition.
- 4) Adjust SFR2 so that RF signal of the test point TP2 (RF) is MAX and CLEARREST.

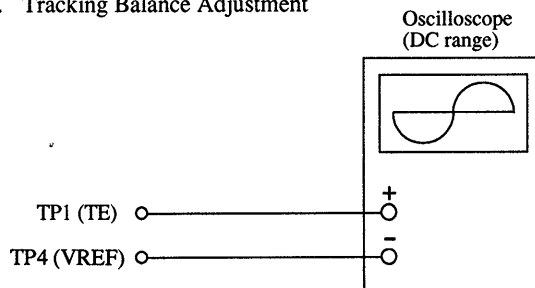
RF signal waveform



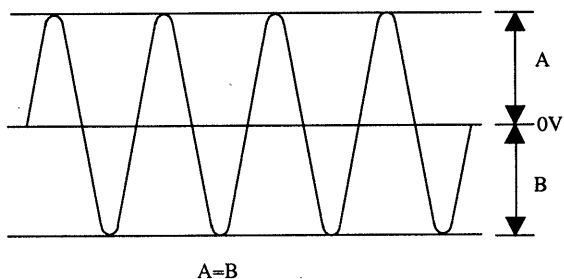
Note : The current of the laser signal can be checked with the voltages on both sides of R2 (10Ω). The difference for the specified value shown on the level must be within ± 6.0mA.

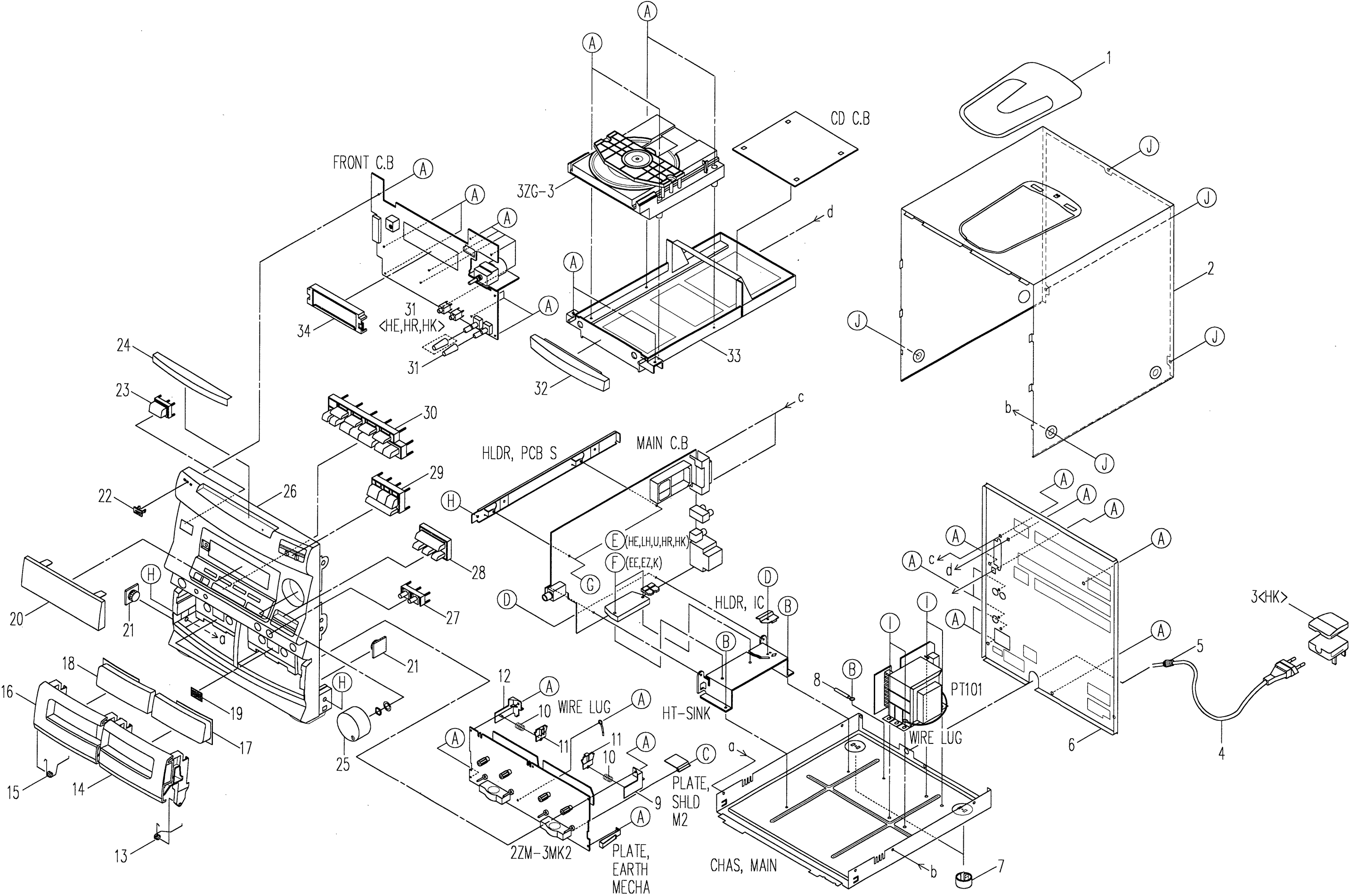
$$\text{Laser current } I_{op} = \frac{\text{Voltage across R2}}{10\Omega}$$

2. Tracking Balance Adjustment



- 1) Short circuit between TP4 (VREF) and TP3.
- 2) Connect an oscilloscope to the test points TP1 (TE) and TP4 (VREF).
- 3) Turn on the power switch.
- 4) Insert test disc TCD-782 (YEDS-18) and press the PLAY button.
- 5) Adjust SFR1 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 test point TP3 and TP4(VREF).



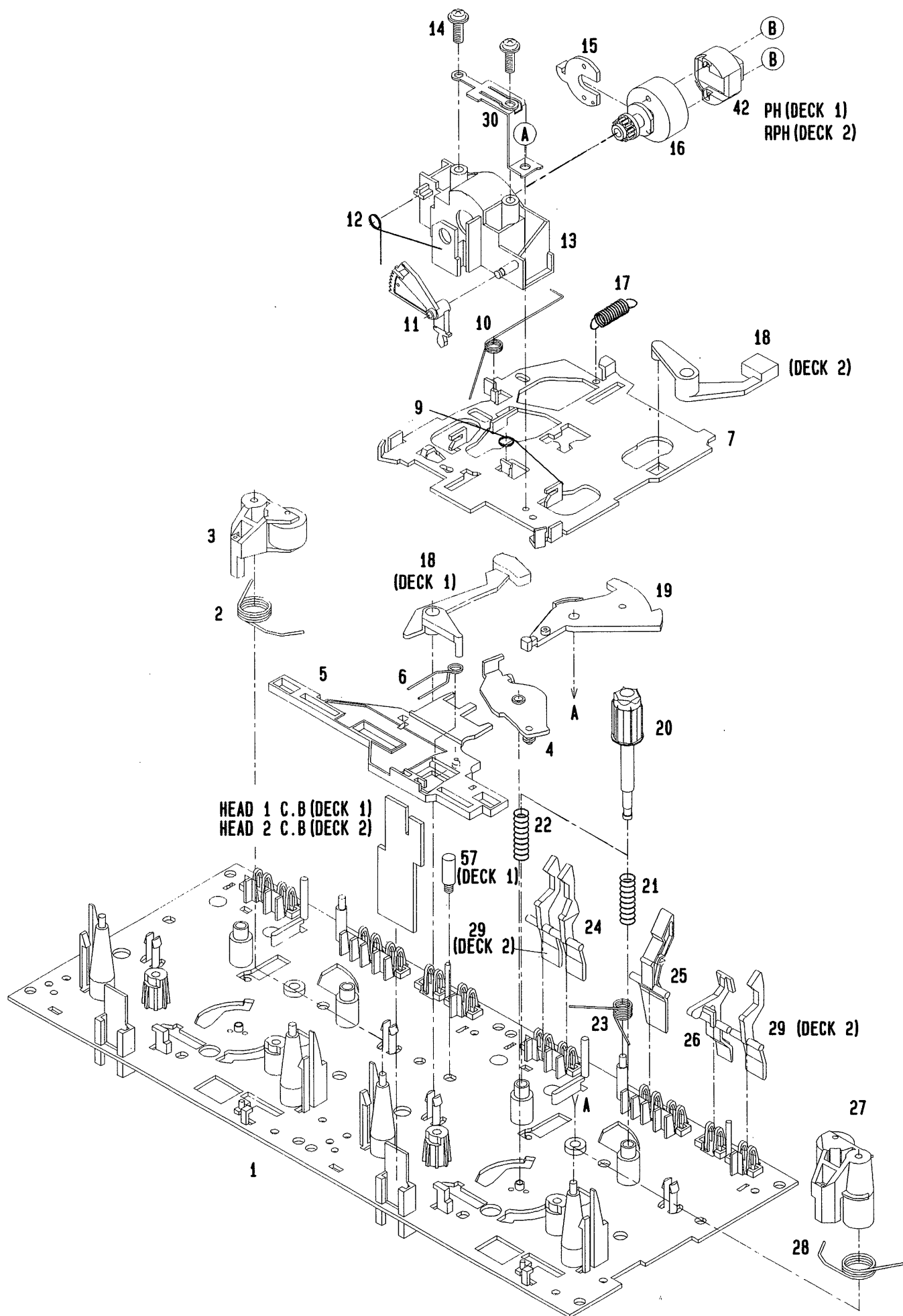


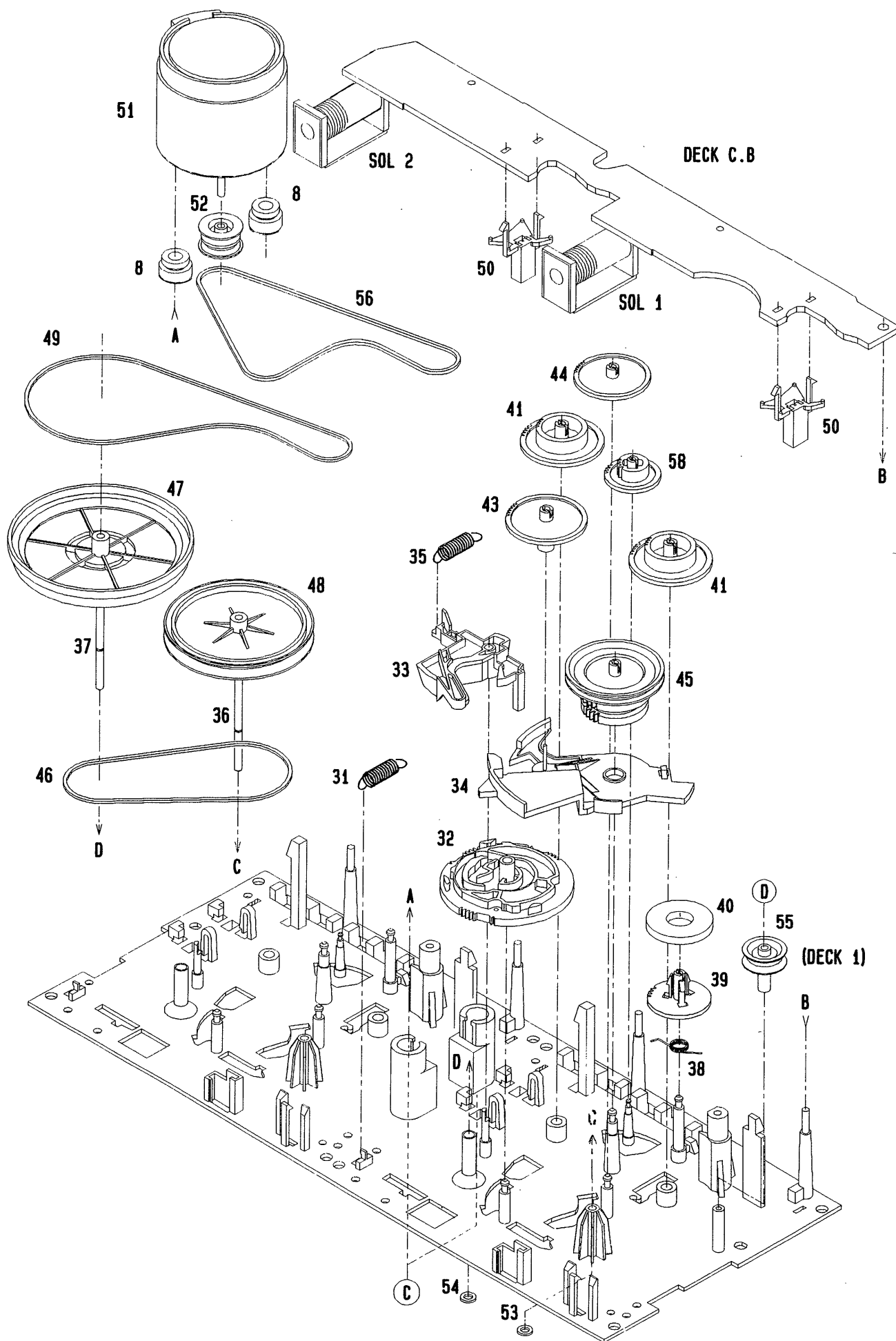
MECHANICAL PARTS LIST 1 / 1

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

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	84-CE4-018-019		WINDOW,CD	24	85-NE8-014-019		WINDOW,CD
2	85-NE8-020-019		CAB,STEEL	25	85-NE8-012-019		KNOB,VOL
△ 3	87-099-811-018		PLUG,ADPTR CON V (K)<HK>	26	85-NE8-001-019		CAB,FR HE<HE,HR,HK>
△ 4	87-050-079-019		AC CORD ASSY,E<EXCEPT U,K>	26	85-NE8-024-019		CAB,FR E<EE,EZ,K>
△ 4	87-050-053-019		AC CORD ASSY,U-2<U>	26	85-NE8-021-019		CAB,FR LH<LH>
△ 4	87-050-100-019		AC CROD ASSY,K3P<K>	26	85-NE8-023-019		CAB,FR U<U>
5	87-085-185-010		BUSHING,AC CORD E<EXCEPT U>	27	85-NE8-009-019		KEY,VF
5	87-085-189-010		BUSHING,CORD U<U>	28	85-NE8-010-019		KEY,GEQ
6	85-NE8-045-019		PANEL,REAR EEBNM<EE>	29	85-NE8-006-019		KEY,CD
6	85-NE8-002-019		PANEL,REAR HEJBNM<HE>	30	85-NE8-008-019		KEY,FN
6	85-NE8-046-019		PANEL,REAR EZBNM<EZ>	31	85-NE8-011-019		KNOB,MIC
6	85-NE8-048-019		PANEL,REAR HKJBNM<HK>	32	85-NE8-018-019		PANEL,TRAY
6	85-NE8-032-019		PANEL,REAR HRJBNM<HR>	33	85-NE8-210-019		HLDR,CD
6	85-NE8-047-019		PANEL,REAR KBNM<K>	34	82-NF7-210-019		GUIDE FL
6	85-NE8-031-019		PANEL,REAR LHBNM<LH>	A	87-067-703-019		BVT2+3-10 (W/O SLOT)
6	85-NE8-033-019		PANEL,REAR UBNM<U>	B	87-067-688-019		BVTT+3-6
7	87-085-221-019		FOOT,H13.5	C	87-571-032-419		VIT+2-3
8	87-038-039-010		WIRE BINDER	D	87-067-579-019		BVT2+3-8 W/O SLOT
9	82-NF5-226-019		HLDR,LOCK 1N	E	87-067-581-019		BVT2+3-15W/O SLT<HE,LH,HR,U,HK>
10	82-NF5-228-019		SPR-C,LOCK	F	87-067-698-019		BVT2+3-18 W/O SLOT<EE,EZ,K>
11	82-NF5-229-019		PLATE,LOCK	G	87-078-084-019		BVTT+3-6 W,CONVEX
12	82-NF5-227-019		HLDR,LOCK 2N	H	87-591-094-419		QIT+3-6 GOLD
13	82-NF5-219-019		SPR-T,EJECT 2 (SIN)	I	87-078-019-019		S-SCREW,IT+4-6
14	85-NE8-004-019		BOX,CASS R<HE,LH,HR,HK>	J	87-067-641-019		UTT2+3-8 W/O SLOT BLK
14	85-NE8-030-019		BOX,CASS RE<U,EE,EZ,K>				
15	82-NF5-218-019		SPR-T,EJECT 1 (SIN)				
16	85-NE8-003-019		BOX,CASS L<HE,LH,HR,HK>				
16	85-NE8-029-019		BOX,CASS LE<U,EE,EZ,K>				
17	85-NE8-016-019		WINDOW,CASS R				
18	85-NE8-015-019		WINDOW,CASS L				
19	81-532-080-019		LBL,CASS-COMPT				
20	85-NE8-013-019		WINDOW,DISPLAY				
21	87-063-165-019		OIL-DMPR 150				
22	82-NE6-067-019		BADGE,AIWA 30N				
23	85-NE8-005-019		KEY,POWER				

TAPE MECHANISM EXPLODED VIEW 1 / 1



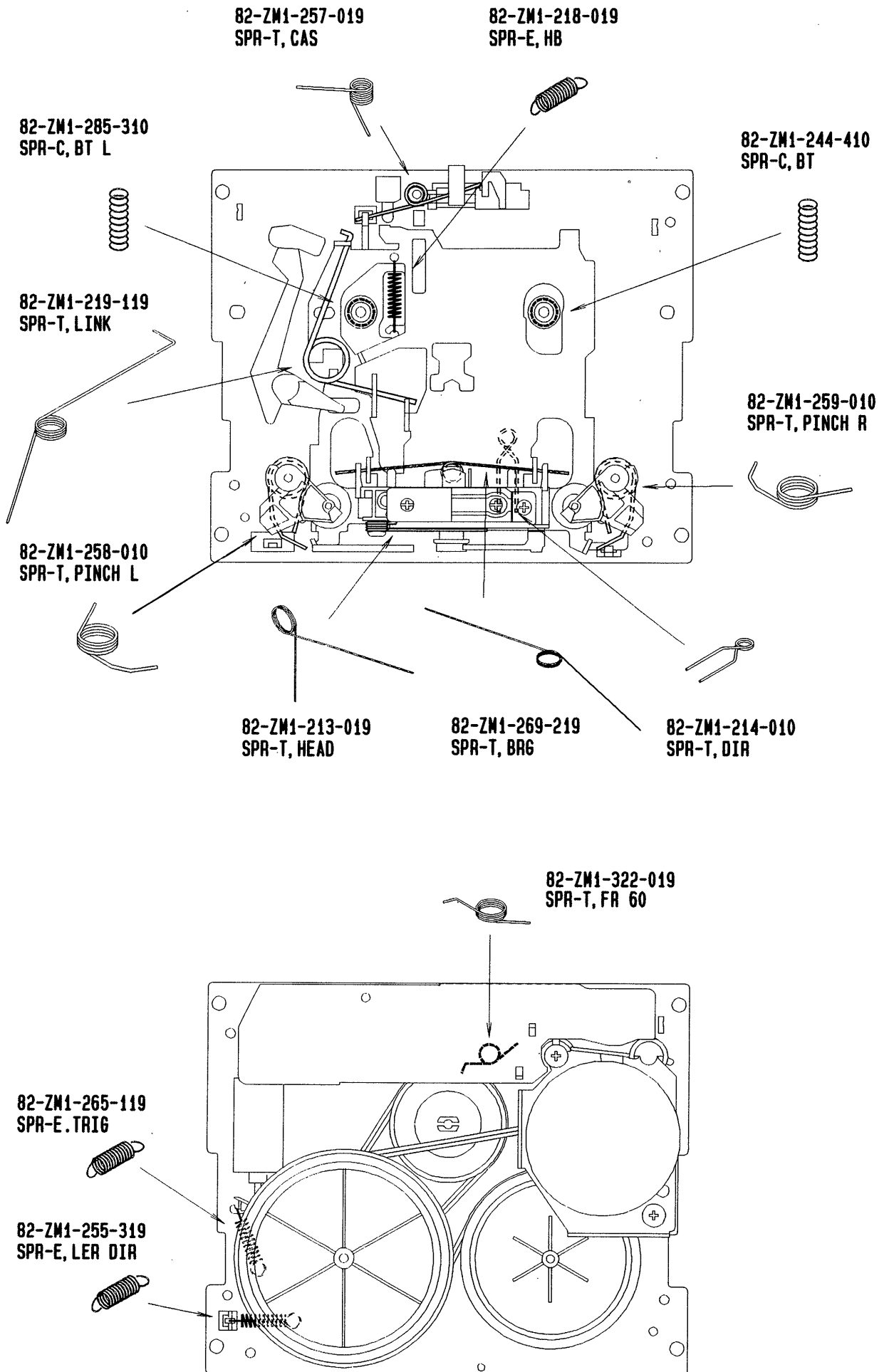


TAPE MECHANISM PARTS LIST 1 / 1

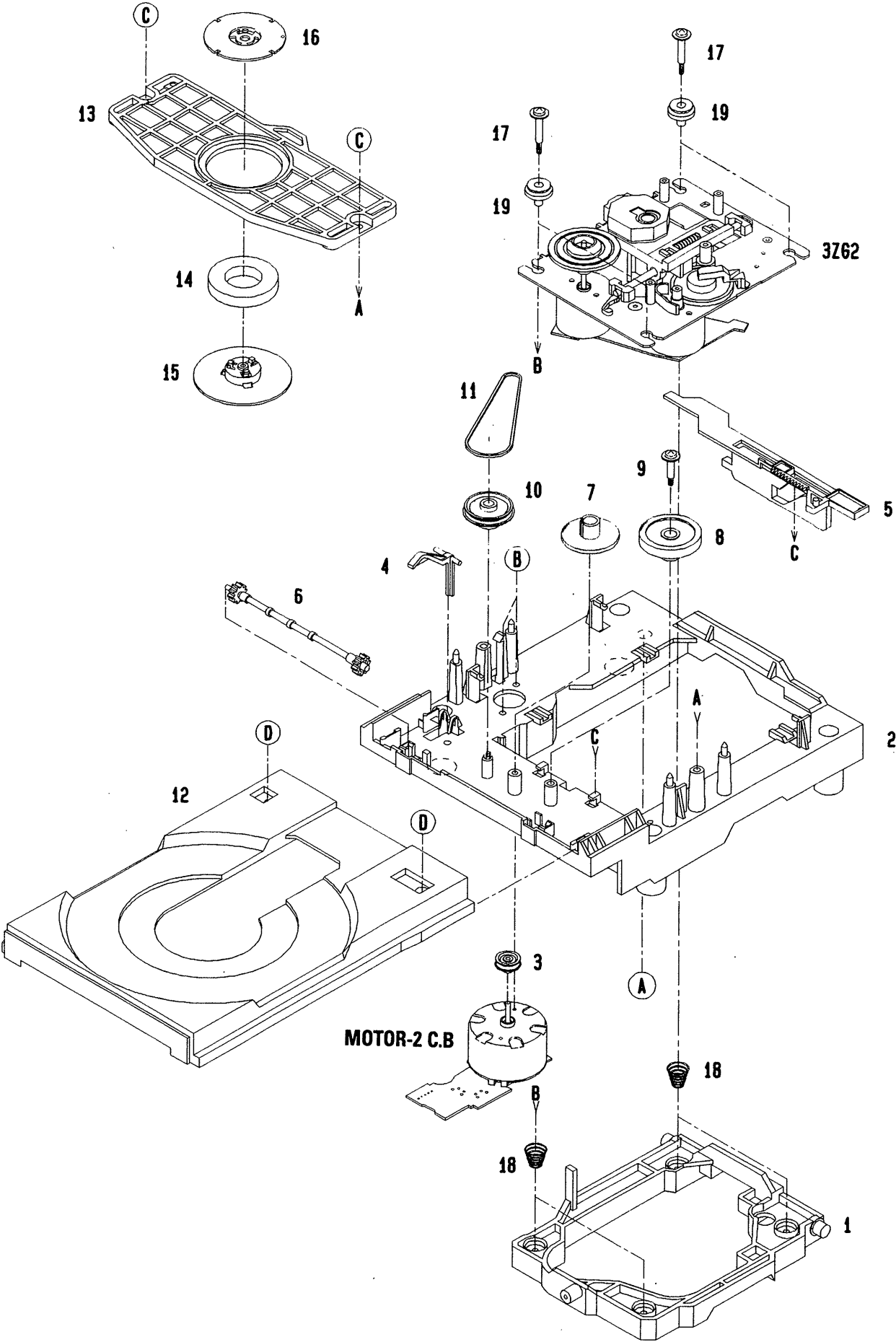
If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	82-ZM3-301-019		CHAS ASSY,M2	35	82-ZM1-265-119		SPR-E,TRIG
2	82-ZM1-258-010		SPR-T,PINCH L	36	82-ZM1-313-019		CAPSTAN N 2-41.5
3	82-ZM1-248-419		LVR ASSY,PINCH L	37	82-ZM1-312-019		CAPSTAN N 2.2-41.7
4	82-ZM1-295-31K		PLATE ASSY, LINK	38	82-ZM1-322-019		SPR-T,FR60
5	82-ZM1-266-11K		LVR,DIR	39	82-ZM1-220-219		GEAR, IDLER
6	82-ZM1-214-010		SPR-T,DIR	40	82-ZM1-316-010		RING MAGNET 3
7	82-ZM1-206-61K		CHAS,HEAD	41	82-ZM1-216-21K		GEAR,REEL
8	82-ZM3-307-019		CUSH-G,DIA3.7-8-3.2	42	87-046-398-019		HEAD,PH YK50P-BS409(PH)
9	82-ZM1-269-219		SPR-T,BRG	42	87-046-399-019		HEAD,RPH YK56R-BS409(RPH)
10	82-ZM1-219-119		SPR-T, LINK	43	82-ZM1-225-11K		GEAR,FR
11	82-ZM1-210-019		GEAR,H T	44	82-ZM1-226-019		GEAR,REW
12	82-ZM1-213-019		SPR-T,HEAD	45	82-ZM1-228-510		SLIP DISK ASSY
13	82-ZM1-207-519		GUIDE,TAPE	46	82-ZM1-328-010		BELT FR2(DECK 1)
14	82-ZM1-283-310		S-SCREW,AZIMUTH	46	82-ZM1-335-010		BELT FR2M(DECK 2)
15	82-ZM1-314-119		PLATE,HEAD	47	82-ZM1-238-61K		FLY-WHL ASSY,R (DECK 2)
16	82-ZM1-208-019		HLDR,HEAD	47	82-ZM3-210-51K		FLY-WHL ASSY,R2 (DECK 1)
17	82-ZM1-218-019		SPR-E,HB	48	82-ZM1-235-31K		FLY-WHL ASSY,L (DECK 2)
18	82-ZM1-263-110		LVR,EJECT L (DECK 1)	48	82-ZM3-208-41K		FLY-WHL ASSY,L2 (DECK 1)
18	82-ZM1-264-010		LVR,EJECT R (DECK 2)	49	82-ZM3-313-019		BELT R10
19	82-ZM1-222-11K		LVR,PLAY	50	82-ZM1-245-210		HLDR,IC
20	82-ZM1-217-319		REEL TABLE	51	87-045-347-019		MOT,SHU2L 70(M1)
21	82-ZM1-244-410		SPR-C,BT	52	82-ZM3-202-019		PULLEY,MOT 2M
22	82-ZM1-285-310		SPR-C,BT L	53	82-ZM1-288-019		SH,1.63-3.2-0.5 SLT
23	82-ZM1-257-019		SPR-T,CAS	54	80-ZM6-243-019		SH,1.75-3.6-0.5 SLT
24	82-ZM1-241-319		LVR,MC	55	82-ZM3-304-010		PULLEY,COUPLER (DECK 1)
25	82-ZM1-242-019		LVR,CAS	56	82-ZM3-312-019		BELT P10
26	82-ZM1-243-019		LVR,STOP	57	82-ZM3-216-019		SHAFT,COUPLER N(DECK 1)
27	82-ZM1-253-419		LVR ASSY,PINCH R	58	82-ZM1-223-019		GEAR,PLAY
28	82-ZM1-259-010		SPR-T,PINCH R	A	82-ZM1-315-010		S-SCREW,GVIDE TAPE
29	82-ZM1-240-11K		LVR,REC (DECK 2)	B	80-ZM6-207-019		V+1.6-7
30	82-ZM1-298-010		SPR-P,EARTH	C	82-ZM3-318-019		S-SCRW MOTOR M2
31	82-ZM1-255-319		SPR-E,LVR DIR	D	87-067-972-019		PW,1.05-3-0.25 SLT
32	82-ZM3-305-01K		GEAR,CAM M2				
33	82-ZM1-227-21K		LVR,TRIG				
34	82-ZM3-306-01K		LVR,FR M2				

SPRING APPLICATION POSITION



CD MECHANISM EXPLODED VIEW 1 / 2

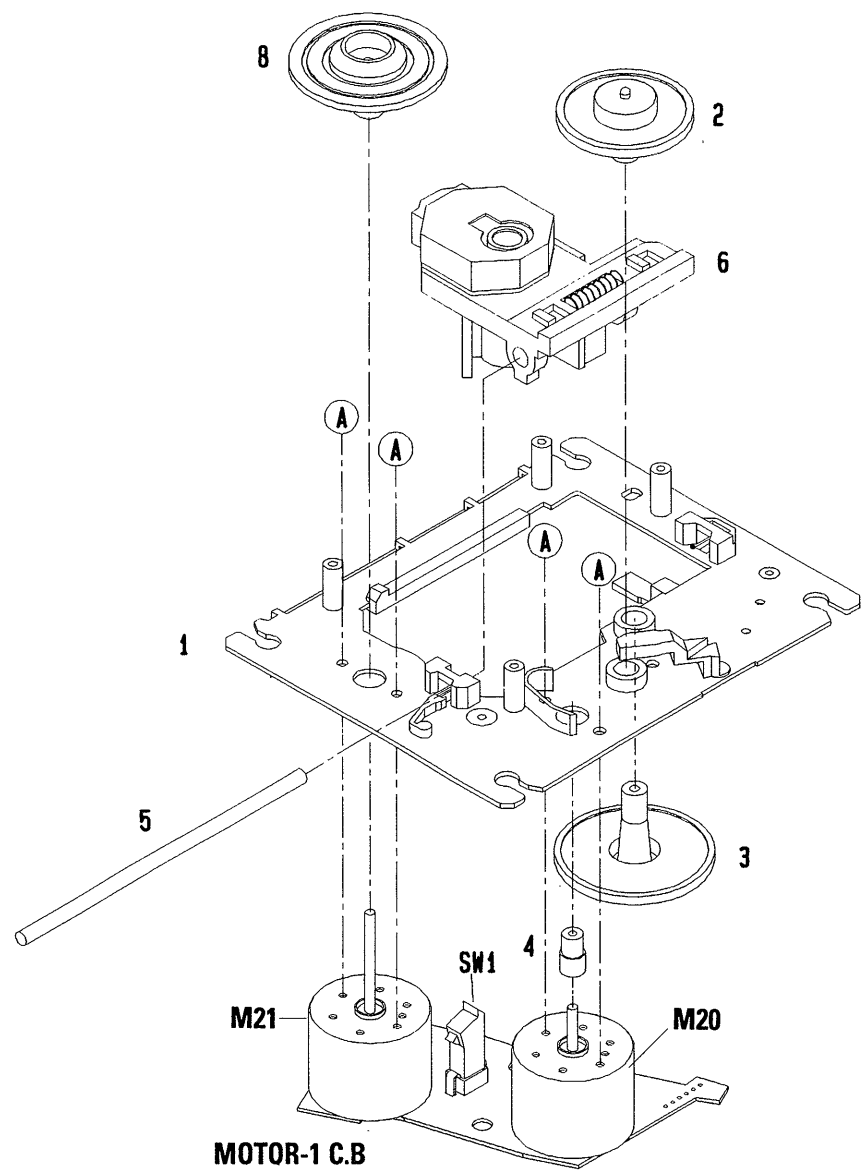


CD MECHANISM PARTS LIST 1 / 2

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

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	83-ZG3-202-01K		HLDR, MECH
2	83-ZG3-228-21K		CHAS, L6
3	83-ZG3-208-01K		PULLEY, MOTOR
4	83-ZG3-213-01K		LVR, SW
5	83-ZG3-209-01K		CAM, SLIDE
6	83-ZG3-207-01K		GEAR, TRAY
7	83-ZG3-204-01K		GEAR, C
8	83-ZG3-205-01K		GEAR, D
9	83-ZG3-217-019		S-SCREW, GEAR D
10	83-ZG3-220-11K		GEAR, PULLEY 2
11	83-ZG3-214-019		BELT, L
12	83-ZG3-203-61K		TRAY, CD
13	83-ZG3-210-01K		HLDR, CHUCK
14	83-ZG3-602-010		RING, MAG
15	83-ZG3-212-01K		CAP, DISC
16	83-ZG3-211-01K		PLATE, DISC
17	81-ZG1-254-019		S-SCEW, MECH HLDR
18	83-ZG3-216-019		SPR-C, L
19	83-ZG3-215-019		CUSH-G, MAIN
A	87-067-945-119		VFT2+3-12(F10)
B	87-251-071-119		U+2.6-4
C	87-512-074-219		VFT2+2.6-8
D	87-352-075-219		VT2+2.6-10

CD MECHANISM EXPLODED VIEW 2 / 2



CD MECHANISM PARTS LIST 2 / 2

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

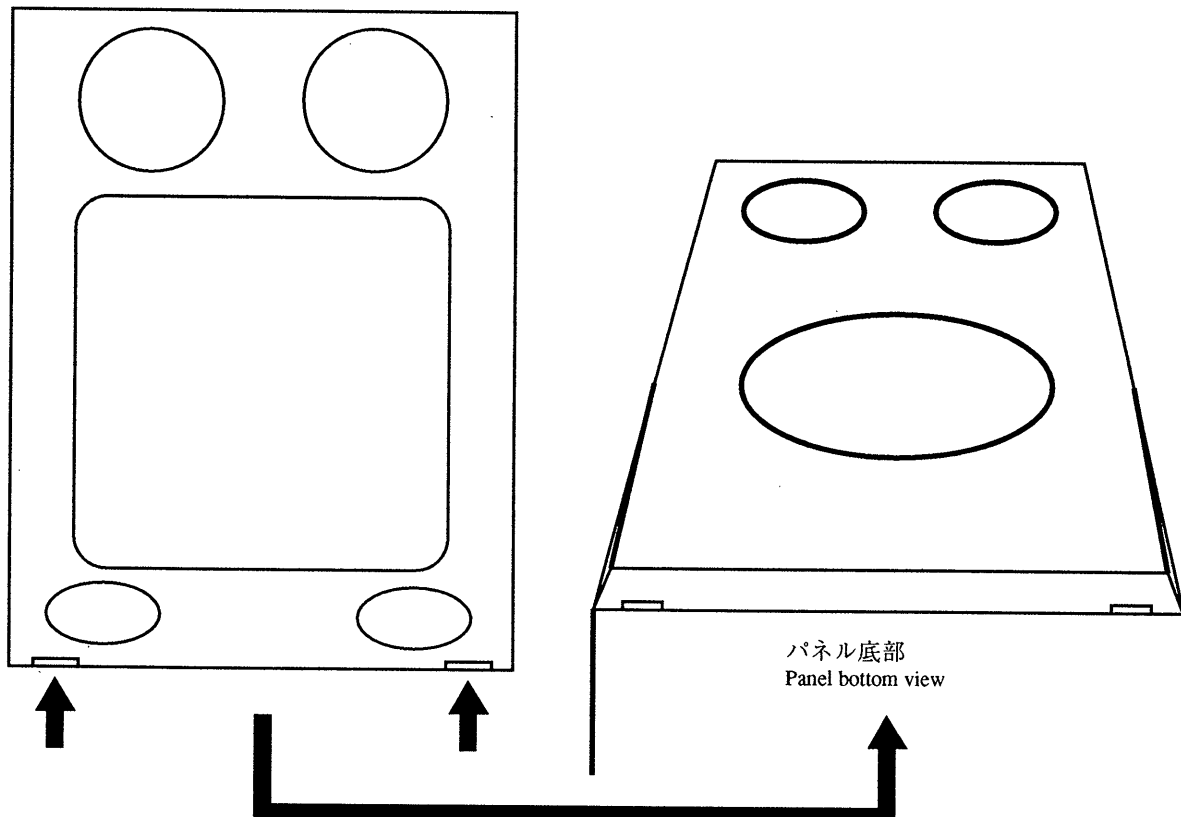
REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	83-ZG2-202-51K		O-SERT S ASSY,S	6	87-070-109-019		KSS 212A,PICKUP UNIT
2	83-ZG2-204-419		GEAR,A	8	83-ZG2-222-01K		TURN TABLE,A5
3	83-ZG2-205-219		GEAR,B	A	87-261-032-219		SCREW V+2-3
4	83-ZG2-220-01K		GEAR MOTOR 2				
5	83-ZG2-207-119		SHAFT,SLIDE				

SPEAKER DISASSEMBLY INSTRUCTIONS

矢印の位置にマイナスドライバーを差し込んで、パネルをはずして、各々のスピーカー・ユニットのビスを取り、スピーカー・ユニットをはずしてください。

Insert a flat - bladed screwdriver into the position indicated by the arrows and remove the panel.

Remove the screws of each speaker unit and then remove the speaker units.



SPEAKER PARTS LIST

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

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	85-NS7-007-019		GRILL FRAME ASSY
2	85-NS6-602-019		SPEAKER WOOFER
3	85-MS3-604-019		SPEAKER TWEETER
4	82-MSE-610-019		CERAMIC
5	83-NS8-009-019		DIA PORAGM
6	83-096-614-019		SPEAKER CORD
A	87-343-172-019		VT,+ 4-12
B	87-342-097-019		VT,+ 3-12

REFERENCE NAME LIST

ELECTRICAL SECTION

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

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

サービス技術ニュース	
番号	連絡内容
G- -	
G- -	
G- -	

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