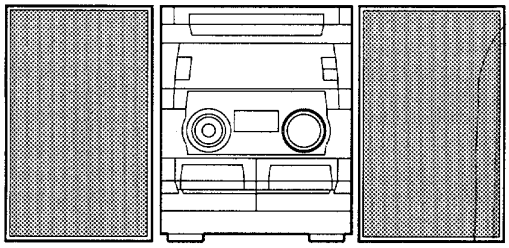
aiwa

aiwa SERVICE

NSX-S706
NSX-S707
NSX-S708



COMPACT DISC STEREO
CASSETTE RECEIVER

- BASIC TAPE MECHANISM : 2ZM-3MK2 (PR4NM,YPR4N)
- BASIC CD MECHANISM : 4ZG-1 (Z4DSHNM,Z4DSHNC)
- TYPE : HE(706,707), HR(706,707,708), EZ(707,708),K(707)

SERVICE MANUAL

REVISION PUBLISHING

SYSTEM	CD CASSEIVER	SPEAKER	REMOTE CONTROLLER
NSX-S706	CX-NS706 (TYPE :HR,HE)	SX-ANS706	RC-7AS06
NSX-S707	CX-NS707 (TYPE : HR,HE,EZ,K)	HE,HR : SX-NS702 SX-R285 EZ,K : SX-ANS706	
NSX-S708	CX-NS708 (TYPE : HR,EZ)	SX-ANS707	

- If requiring information about the CD mechanism, see Service Manual of 4ZG-1, S/M Code No. 09-983-249-3OT.
- This Service Manual is the "Revision Publishing" and replaces "Simple Manual" for EZ,K (707), EZ (708), S/M Code No. 09-985-276-3FE.

S/M Code No. 09-986-276-8FE

TABLE OF CONTENTS

SPECIFICATIONS

<FM Tuner section>

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

<MW Tuner section>

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

<SW Tuner section> (HE, HR)

Tuning range	5.900 MHz to 17.900 MHz
Antenna	Wire antenna

<LW Tuner section> (EZ, K)

Tuning range	144 kHz to 290 kHz
Usable sensitivity	1400 uV/m
Antenna	Loop antenna

<Amplifier section>

Power output	HE,HR : Rated 112 W + 112 W (6 ohms, THD 1%, 1 kHz) Reference 140 W + 140 W (6 ohms, THD 10%, 1 kHz) EZ : Rated 100 W + 100 W (6 ohms, THD 1%, 1 kHz/DIN 45500) Reference 125 W + 125 W (6 ohms, THD 10%, 1 kHz/DIN 45324) DIN MUSIC POWER : 250 W + 250 W K : Rated 80 W + 80 W (6 ohms, THD 1%, 1 kHz/DIN 45500) Reference 100 W + 100 W (6 ohms, THD 10%, 1 kHz/DIN 45324)
Total harmonic distortion	HE,HR : 0.1% (70 W, 1 kHz, 6 ohms, DIN AUDIO) EZ : 0.1% (50 W, 1 kHz, 6 ohms, DIN AUDIO) K : 0.1% (40 W, 1 kHz, 6 ohms, DIN AUDIO)
Inputs	VIDEO/AUX : 210 mV(adjustable) MD : 210mV (adjustable) MIC1, MIC2 : 1.4mV (10 kohms)
Outputs	LINE OUT: 280mV SUPER WOOFERS : 2.6 V (HE,HR), 2.4 V (EZ), 2.2 V (K) SPEAKERS: accept speakers of 6 ohms or more SURROUND SPEAKERS : accept speakers of 8 ohms to 16 ohms PHONES (stereo jack) : accepts headphones of 32 ohms or more

<Cassette deck section>

Track format	4 tracks, 2 channels stereo
Frequency response	CrO_2 tape : 50 Hz – 16000 Hz Normal tape : 50 Hz – 15000 Hz
Signal to noise ratio	60 dB (Dolby B NR ON, CrO_2 tape peak level)
Recording system	AC bias
Heads	Deck 1 : Playback head x 1 Deck 2 : Recording/playback head x 1/ 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	0.05 % (1 kHz, 0 dB)
Wow and flutter	Unmeasurable

<Speaker system>
SX-ANS706(HE,HR<706>, EZ,K<707>), SX-ANS707(HR,EZ<708>)

Cabinet type	4 way, bass reflex with surround speaker (magnetic shielded type)
Speakers	Woofer : 160 mm cone type Tweeter : 50 mm cone type Super tweeter : 20 mm ceramic type Cardioid speaker : 80 mm cone type Surround speaker: 60 mm cone type
Impedance	Front speaker : 6 ohms Surround speaker : 8 ohms
Output sound pressure level	87 dB/W/m
Dimensions (W x H x D)	706 : 250 x 330 x 293 mm 707 : 250 x 427 x 294 mm
Weight	706 : 4.8 kg 707 : 5.8 kg

<Speaker system SX-NS702>(HE,HR<707>)

Cabinet type	3 way, bass reflex (magnetic shielded type)
Speakers	Woofer : 160 mm cone type Tweeter : 60 mm cone type Super tweeter : 20 mm ceramic type
Impedance	6 ohms
Output sound pressure level	87 dB/W/m
Dimensions (W x H x D)	240 x 324 x 255 mm
Weight	3.7 kg

<General>

Power requirements	HR,HE : 120 V/220 - 230 V/240 V AC switchable, 50/60 Hz EZ,K : 230 V AC, 50 Hz
Power consumption	HR,HE : 170 W EZ,K : 160 W
Dimensions of main unit	260 x 324 x 348 mm
Weight of main unit	HE,HR : 8.1 kg EZ : 7.7 kg K : 7.6 kg

- Design and specifications are subject to change without notice.

- The word "BBE"and the "BBE symbol" are trademarks of BBE Sound, Inc.
  Under license from BBE Sound,Inc.

- Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation.
  "DOLBY" and the double-D symbol ⧈ are trademarks of Dolby Laboratories Licensing Corporation.

NOTE ON BEFORE STARTING REPAIR

1. Forced discharge of electrolytic capacitor of power supply block

When repair is going to be attempted in the set that uses relay circuit in the power supply block, electric potential is kept charged across the electrolytic capacitors (C101, 102) even though AC power cord is removed. If repair is attempted in this condition, the secondary defect can occur.
In order to prevent the secondary trouble, perform the following measures before starting repair work.

Discharge procedure

① Remove the AC power cord.
② Connect a discharging resistor at an end of lead wire that has clips at both ends. Connect the other end of the lead wire to metal chassis.
③ Contact the other end of the discharging resistor to the positive (+) side (+VH) of C101. (For two seconds)
④ Contact the same end of the discharging resistor as step ③ to the negative (-) side (-VH) of C102 in the same way. (For two seconds)
⑤ Check that voltage across C101 and C102 has decreased 1 V or less using a multimeter or an oscilloscope.

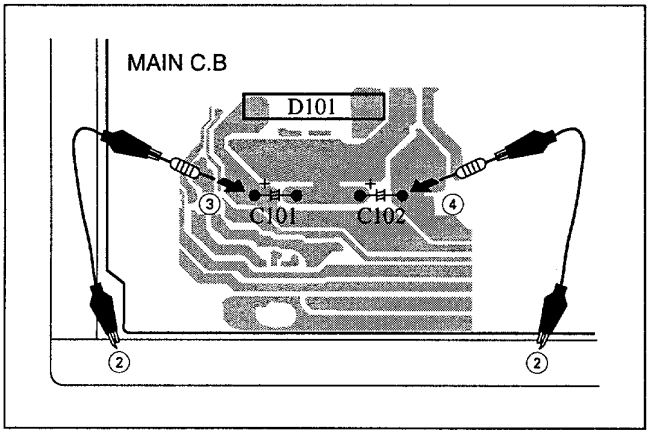


Fig-1

Select a discharging resistor referring to the following table.

Charging voltage (V) (C101, 102)	Discharging resistor (Ω)	Rated power (W)	Parts number
25-48	100	3	87-A00-247-090
49-140	220	5	87-A00-232-090

Note: The reference numbers (C101, C102) of the electrolytic capacitors can change depending on the models. Be sure to check the reference numbers of the charging capacitors on schematic diagram before starting the discharging work.

2. Check items before exchanging the MICROCOMPUTER

Be sure to check the following items before exchanging the MICROCOMPUTER. Exchange the MICROCOMPUTER after confirming that the MICROCOMPUTER is surely defective.

2-1. Regarding the HOLD terminal of the MICROCOMPUTER

When the HOLD terminal (INPUT) of the MICROCOMPUTER is "H", the MICROCOMPUTER is judged to be operating correctly. When this terminal is "L", the main power cannot be turned on. Therefore, be sure to check the terminal voltage of the HOLD terminal before exchange.
When the MICROCOMPUTER is not defective, the HOLD terminal can also go "L" when the POWER AMPLIFIER has any abnormalities that triggers the abnormality detection circuit on the MAIN C. B. that sets the HOLD terminal to "L".

- Good or no good judgement of the MICROCOMPUTER

① Turn on the AC main power.
② Confirm that the main power is turned on and the HOLD terminal of the MICROCOMPUTER keeps the "H" level or not.
③ When the HOLD terminal is "L" level, the abnormality detection circuit is judged to be working correctly and the MICROCOMPUTER is judged to be good.

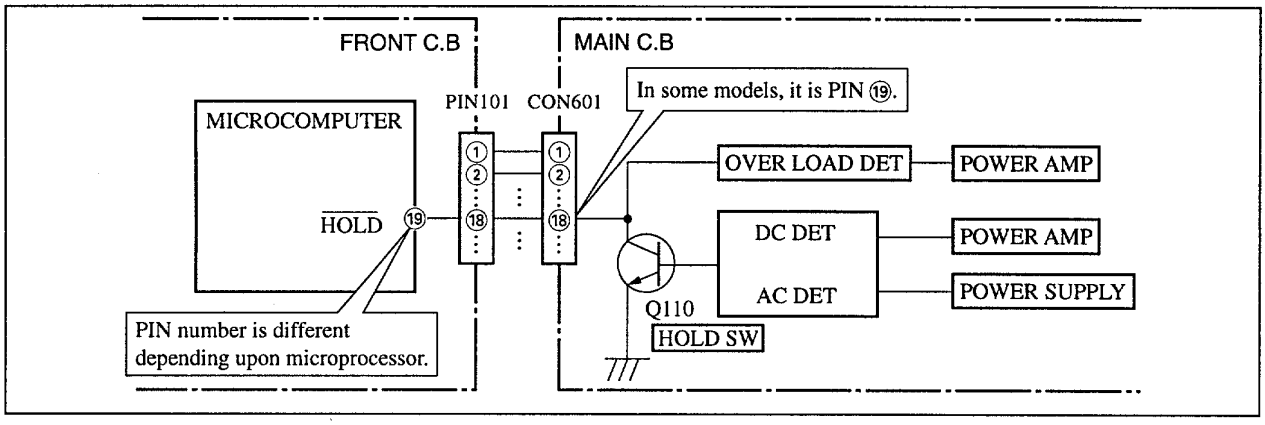


Fig-2-1

In such a case, check also if the POWER AMPLIFIER circuit or power supply circuit has any abnormalities or not.

2-2. Regarding reset

There are cases that the machine does not work correctly because the MICROCOMPUTER is not reset even though the AC power cord is re-inserted, or the software reset (pressing the STOP key + POWER key) is performed.
When the above described phenomenon occurs, it can leads to wrong judgement as if the MICROCOMPUTER is defective and to exchange the MICROCOMPUTER. In such a case, perform the forced-reset by the following procedure and check good or no good of the MICROCOMPUTER.

① Remove the AC power cord.

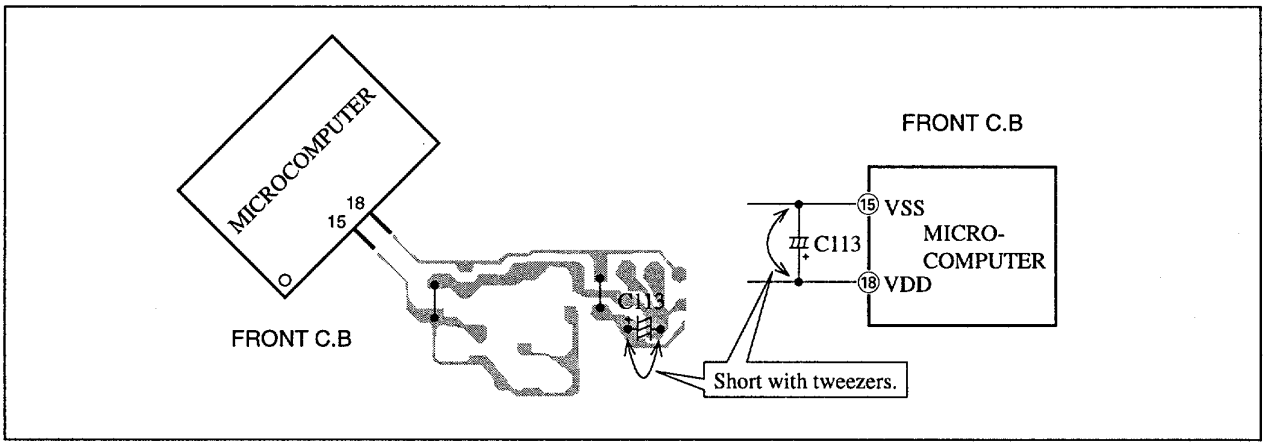


Fig-2-2

② Short both ends of the electrolytic capacitor C113 that is connected to VDD of the MICROCOMPUTER with tweezers.
③ Connect the AC power cord again. If the MICROCOMPUTER returns to the normal operation, the MICROCOMPUTER is good.

Note: The reference number or MICROCOMPUTER pin number of transistor (Q110) and electrolytic capacitor (C113) can change depending on the models. Be sure to check the reference numbers on schematic diagram before starting the discharging work.

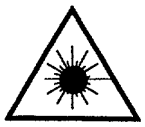
2-3. Confirmation of soldering state of MICROCOMPUTER

Check the soldering state of the MICROCOMPUTER in addition to the above described procedures. Be sure to exchange the MICROCOMPUTER after surely confirming that the trouble is not caused by poor soldering but the MICROCOMPUTER itself.

PROTECTION OF EYES FROM LASER BEAM DURING SERVICING

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

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



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

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

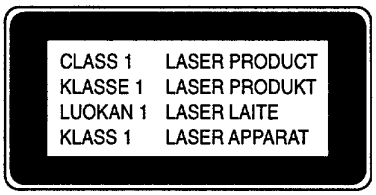
VARNING!
Om apparaten används på annat sätt än vad som specificeras i denna bruksanvising, kan användaren utsättas för osynling laserstrålning, som överskrider gränsen för laserklass 1.

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

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

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

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



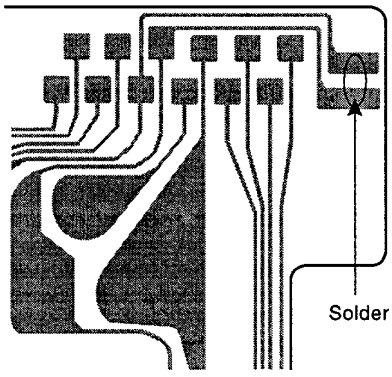
Precaution to replace Optical block

(KSS – 213F)

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 right figure.

PICK-UP Assy P.C.B



ELECTRICAL MAIN PARTS LIST

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

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
IC			
	88-NF5-615-040		C-IC,MSM6654A-521GS-KR1
	88-NF7-690-010		C-IC,LC866560W-5G73
	87-070-083-010		IC,GP1U281X
	87-A20-783-040		C-IC,BA7762AFS
	87-A20-083-010		IC,BA3835S
	87-A20-804-040		C-IC,NJM2152M
	87-017-915-080		IC,BU4094BCF
	87-A20-613-040		C-IC,BU9262AFS
	87-A20-954-040		C-IC,M62445FP-601
	87-017-888-080		IC,NJM4558MD
	86-NFZ-655-010		IC,LC72131D(Z)
	87-A20-438-010		IC,LA1837<HE,HR>
	87-020-454-010		IC,DN6851
	87-070-289-040		C-IC,BU2092F
	87-A20-913-010		IC,lA1837 NL<EZ,K>
	87-A20-355-010		IC,CXA1553P<EZ,K>
	87-A20-440-040		C-IC,BU1920FS<EZ>
TRANSISTOR			
	87-A30-087-080		C-FET,2SK2158
	89-213-702-010		TR,2SB1370 (1.8W)
	87-026-263-080		C-TR,RN1410
	87-A30-071-080		C-TR,RT1N 144C
	87-026-610-080		TR,KTC3198GR
	87-A30-076-080		C-TR,2SC3052F
	87-A30-196-080		TR,2SC4115SRS
	87-A30-075-080		C-TR,2SA1235F
	87-026-609-080		TR,KTA1266GR
	87-A30-107-070		C-TR,CMBT5401
	87-A30-190-080		TR,CC5551
	87-A30-097-010		TR,FN 1016
	87-A30-098-010		TR,FP 1016
	87-A30-106-070		C-TR,CMBT5551
	87-A30-072-080		C-TR,RT1P 144C
	87-A30-074-080		C-TR,RT1P 141C
	87-026-232-080		C-TR,DTA 144WK
	87-A30-073-080		C-TR,RT1N 141C
	87-A30-105-080		C-TR,RT1P 441C
	89-112-965-080		TR,2SA1296 (0.75W)
	87-A30-085-070		C-TR,CSA1362GR
	89-327-143-080		TR,2SC2714 (0.1W)
	87-026-463-080		TR,2SA933SRS
	87-A30-162-010		FET,2SK2937
	87-026-580-080		C-TR,DTA123JK
	87-A30-221-040		C-TR,DTA114WK
	87-A30-086-070		C-TR,CSD1306E
	89-505-434-540		C-TR,2SK543-TB(4/5)
DIODE			
	87-A40-470-080		DIODE,1SS254
	87-017-654-060		DIODE,GBU6JL 6131
	87-A40-505-040		C-DIODE,KDS181
	87-A40-509-080		ZENER,MTZJ6.8C
	87-070-136-080		ZENER,MTZJ5.1B
	87-A40-504-040		C-DIODE,KDS184
	87-070-274-080		DIODE,1N4003 SEM
	87-A40-341-080		ZENER,MTZJ 36 A
	87-A40-004-080		ZENER,MTZJ16A
	87-A40-488-080		DIODE,1SS244
	87-A40-345-080		ZENER,MTZJ10C
	87-A40-184-090		DIODE,RF34
	87-A40-002-080		ZENER,MTZJ5.1C
	87-A40-438-080		ZENER,MTZJ4.7A
	87-A40-234-080		ZENER,MTZJ5.6A
	87-A40-115-060		DIODE,RS603M
	87-017-931-080		ZENER,MTZJ5.6B
	87-A40-370-090		DIODE,RK46-P20

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
MAIN C.B			
C101	87-016-657-090		CAP,E 3300-71
C102	87-016-657-090		CAP,E 3300-71
C103	87-016-658-090		CAP,E 4700-35 SMG
C104	87-016-658-090		CAP,E 4700-35 SMG
C105	87-012-368-080		C-CAP,S 0.1-50 F
C106	87-012-368-080		C-CAP,S 0.1-50 F
C107	87-012-368-080		C-CAP,S 0.1-50 F
C108	87-012-368-080		C-CAP,S 0.1-50 F
C109	87-010-196-080		CHIP CAPACITOR,0.1-25
C110	87-010-196-080		CHIP CAPACITOR,0.1-25
C111	87-010-196-080		CHIP CAPACITOR,0.1-25
C112	87-010-196-080		CHIP CAPACITOR,0.1-25
C113	87-010-385-080		CAP, ELECT 220-25V
C114	87-010-385-080		CAP,E 220-25V
C115	87-010-385-080		CAP,E 220-25V
C116	87-010-385-080		CAP, ELECT 220-25V
C117	87-010-430-080		CAP, ELECT 100-63
C118	87-010-263-080		CAP, ELECT 100-10V
C119	87-010-260-080		CAP, ELECT 47-25V
C120	87-010-403-080		CAP, ELECT 3.3-50V
C121	87-012-140-080		CAP 470P
C123	87-010-247-080		CAP, ELECT 100-50V
C124	87-010-112-080		CAP, ELECT 100-16V
C125	87-010-235-080		CAP,E 470-16 SME
C130	87-010-194-080		C-CAP,S 0.047 FZ <EZ,K>
C131	87-010-194-080		C-CAP,S 0.047 FZ <EZ,K>
C151	87-016-520-090		CAP,E 3300-65<K>
C152	87-016-520-090		CAP,E 3300-65<K>
C205	87-010-402-010		CAP, E 2.2-50SME
C206	87-010-402-010		CAP, E 2.2-50SME
C209	87-010-546-080		CAP, ELECT 0.33-50V
C210	87-010-546-080		CAP, ELECT 0.33-50V
C211	87-010-183-080		C-CAP,S 2700P-50 B<HE,HR>
C211	87-010-182-080		C-CAP,S 2200P-50 B<EZ,K>
C212	87-010-183-080		C-CAP,S 2700P-50 B<HE,HR>
C212	87-010-182-080		C-CAP,S 2200P-50 B<EZ,K>
C213	87-010-186-080		CAP,CHIP 4700P
C214	87-010-186-080		CAP,CHIP 4700P
C215	87-010-403-080		CAP, ELECT 3.3-50V
C216	87-010-403-080		CAP, ELECT 3.3-50V
C217	87-A10-899-080		CAP, ELECT 47-25V BP
C218	87-A10-899-080		CAP, ELECT 47-25V BP
C221	87-010-213-080		C-CAP, S 0.015-50 B<EZ,K>
C222	87-010-213-080		C-CAP, S 0.015-50 B<EZ,K>
C223	87-010-197-080		CAP,CHIP 0.01 DM
C224	87-010-197-080		CAP,CHIP 0.01 DM
C225	87-010-176-080		C-CAP,S 680P-50 SL<EZ,K>
C226	87-010-176-080		C-CAP,S 680P-50 SL<EZ,K>
C228	87-010-196-080		C-CAP,S 0.1-25 FZ<EZ,K>
C229	87-A10-812-080		C-CAP,S 220P-200 J CH
C230	87-A10-812-080		C-CAP,S 220P-200 J CH
C233	87-010-544-080		CAP, ELECT 0.1-50V
C234	87-010-544-080		CAP, ELECT 0.1-50V
C235	87-010-196-080		CHIP CAPACITOR,0.1-25
C237	87-012-368-080		C-CAP,S 0.1-50 F
C238	87-012-368-080		C-CAP,S 0.1-50 F
C239	87-012-368-080		C-CAP,S 0.1-50 F
C240	87-012-368-080		C-CAP,S 0.1-50 F
C241	87-010-322-080		C-CAP,S 100P-50 CH<EZ,K>
C242	87-010-322-080		C-CAP,S 100P-50 CH<EZ,K>
C247	87-010-178-080		C-CAP,S 1000P-50 CH
C248	87-010-178-080		C-CAP,S 1000P-50 CH
C280	87-010-188-080		C-CAP,S 6800P-50 B
C299	87-010-196-080		CHIP CAPACITOR,0.1-25<EZ,K>
C301	87-010-318-080		C-CAP,S 47P-50 CH
C302	87-010-318-080		C-CAP,S 47P-50 CH
C303	87-012-157-080		C-CAP,S 330P-50 CH
C304	87-012-157-080		C-CAP,S 330P-50 CH

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
C305	87-012-145-080		CAP, CHIP S 270P CH
C306	87-012-145-080		CAP, CHIP S 270P CH
C307	87-010-196-080		CHIP CAPACITOR,0.1-25
C309	87-010-196-080		CHIP CAPACITOR,0.1-25<HE,HR>
C310	87-010-196-080		CHIP CAPACITOR,0.1-25<HE,HR>
C311	87-010-198-080		CAP, CHIP 0.022
C312	87-010-198-080		CAP, CHIP 0.022
C313	87-010-178-080		CHIP CAP 1000P<HE,HR>
C313	87-010-179-080		C-CAP,S 1200P BK<EZ,K>
C314	87-010-178-080		CHIP CAP 1000P<HE,HR>
C314	87-010-179-080		C-CAP,S 1200P BK<EZ,K>
C315	87-010-178-080		CHIP CAP 1000P
C316	87-010-178-080		CHIP CAP 1000P
C317	87-012-142-080		C-CAP,S 0.33-16 FZ<EZ,K>
C318	87-012-142-080		C-CAP,S 0.33-16 FZ<EZ,K>
C319	87-012-141-080		C-CAP,S 0.22-16 FZ<EZ,K>
C320	87-012-141-080		C-CAP,S 0.22-16 FZ<EZ,K>
C321	87-016-492-080		C-CAP,S 0.33-16 FZ<HE,HR>
C321	87-012-141-080		C-CAP,S 0.22-16 FZ<EZ,K>
C322	87-016-492-080		C-CAP,S 0.33-16 FZ
C324	87-010-260-080		CAP, ELECT 47-25V
C325	87-010-370-080		CAP,E 330-6.3 SME
C327	87-010-404-080		CAP, ELECT 4.7-50V
C328	87-010-404-080		CAP, ELECT 4.7-50V
C332	87-010-196-080		CHIP CAPACITOR,0.1-25
C335	87-010-401-080		CAP, ELECT 1-50V
C336	87-010-401-080		CAP, ELECT 1-50V
C337	87-010-196-080		CHIP CAPACITOR,0.1-25
C339	87-010-196-080		CHIP CAPACITOR,0.1-25
C340	87-010-196-080		CHIP CAPACITOR,0.1-25
C351	87-012-140-080		CAP 470P
C352	87-012-140-080		CAP 470P
C354	87-010-175-080		CAP 560P
C355	87-012-349-080		C-CAP,S 1000P-50 CH
C356	87-010-260-080		CAP, ELECT 47-25V
C357	87-010-197-080		CAP, CHIP 0.01 DM
C358	87-010-183-080		C-CAP,S 2700P-50 B
C359	87-010-183-080		C-CAP,S 2700P-50 B
C360	87-010-183-080		C-CAP,S 2700P-50 B
C370	87-010-196-080		CHIP CAPACITOR,0.1-25
C371	87-010-177-080		C-CAP,S 820P-50 SL<EZ,K>
C373	87-016-083-080		C-CAP,S 0.15-16 RK<HE,HR>
C373	87-010-179-080		C-CAP,S 1200P BK<EZ,K>
C374	87-016-083-080		C-CAP,S 0.15-16 RK<HE,HR>
C374	87-010-179-080		C-CAP,S 1200P BK<EZ,K>
C375	87-010-545-080		CAP,E 0.22-50V<EZ,K>
C376	87-010-545-080		CAP,E 0.22-50V<EZ,K>
C378	87-010-196-080		CHIP CAPACITOR,0.1-25
C379	87-010-382-080		CAP, ELECT 22-25V<HE,HR>
C380	87-010-382-080		CAP, ELECT 22-25V<HE,HR>
C381	87-010-197-080		CAP, CHIP 0.01 DM
C382	87-010-312-080		C-CAP,S 15P-50 CH<HE,HR>
C382	87-010-318-080		C-CAP,S 47P CH<EZ,K>
C383	87-010-197-080		CAP, CHIP 0.01 DM
C384	87-010-402-080		CAP, ELECT 2.2-50V
C385	87-010-184-080		C-CAP,S 3300P BK<EZ,K>
C386	87-010-196-080		CHIP CAPACITOR,0.1-25
C387	87-012-145-080		CAP, CHIP S 270P CH<HE,HR>
C391	87-012-145-080		C-CAP,S 270P CH<EZ,K>
C391	87-010-319-080		C-CAP,S 56P-50 CH<HE,HR>
C392	87-012-145-080		C-CAP,S 270P CH<EZ,K>
C392	87-010-319-080		C-CAP,S 56P-50 CH<HE,HR>
C393	87-012-145-080		C-CAP,S 270P CH<EZ,K>
C393	87-010-319-080		C-CAP,S 56P-50 CH<HE,HR>
C394	87-012-145-080		C-CAP,S 270P CH<EZ,K>
C394	87-010-319-080		C-CAP,S 56P-50 CH<HE,HR>
C401	87-010-401-080		CAP, ELECT 1-50V
C402	87-010-401-080		CAP, ELECT 1-50V
C403	87-010-182-080		C-CAP,S 2200P-50 B
C404	87-010-182-080		C-CAP,S 2200P-50 B
C405	87-010-193-080		CHIP CAPACITOR,0.033
C406	87-010-193-080		CHIP CAPACITOR,0.033
C407	87-010-405-080		CAP, ELECT 10-50V
C408	87-010-405-080		CAP, ELECT 10-50V
C409	87-010-380-080		CAP, ELECT 47-16V
C410	87-010-380-080		CAP, ELECT 47-16V
C411	87-010-405-080		CAP, ELECT 10-50V
C412	87-010-112-080		CAP, ELECT 100-16V
C415	87-010-185-080		CHIP CAPACITOR 3900P (K)<HE,HR>
C415	87-010-187-080		C-CAP,S 5600P BK<EZ,K>
C416	87-010-185-080		CHIP CAPACITOR 3900P (K)<HE,HR>
C416	87-010-187-080		C-CAP,S 5600P BK<EZ,K>
C457	87-010-404-080		CAP, ELECT 4.7-50V
C458	87-010-404-080		CAP, ELECT 4.7-50V
C516	87-010-196-080		CHIP CAPACITOR,0.1-25
C601	87-010-180-080		C-CER 1500P
C602	87-010-180-080		C-CER 1500P
C605	87-010-318-080		C-CAP,S 47P-50 CH<EZ,K>
C606	87-010-318-080		C-CAP,S 47P-50 CH<EZ,K>
C607	87-010-318-080		C-CAP,S 47P-50 CH<EZ,K>
C608	87-010-318-080		C-CAP,S 47P-50 CH<EZ,K>
C613	87-016-081-080		C-CAP,S 0.1-16 RK
C614	87-016-081-080		C-CAP,S 0.1-16 RK
C619	87-010-185-080		C-CAP,S 3900P-50 B
C620	87-010-185-080		C-CAP,S 3900P-50 B
C621	87-010-401-080		CAP, ELECT 1-50V
C622	87-010-401-080		CAP, ELECT 1-50V
C625	87-010-405-080		CAP, ELECT 10-50V
C626	87-010-405-080		CAP, ELECT 10-50V
C629	87-010-405-080		CAP, ELECT 10-50V
C630	87-010-213-080		CAP, CHIP 0.015-25 KB GRM
C631	87-010-992-080		CHIP-CAP,S 0.047-25B
C632	87-010-263-080		CAP, ELECT 100-10V
C633	87-010-263-080		CAP, ELECT 100-10V
C634	87-010-196-080		CHIP CAPACITOR,0.1-25
C635	87-010-196-080		CHIP CAPACITOR,0.1-25
C636	87-010-194-080		CAP, CHIP 0.047
C637	87-010-183-080		C-CAP,S 2700P-50 B
C641	87-010-196-080		CHIP CAPACITOR,0.1-25
C653	87-010-318-080		C-CAP,S 47P-50CH<EZ,K>
C654	87-010-318-080		C-CAP,S 47P-50CH<EZ,K>
C661	87-010-322-080		C-CAP,S 100P-50CH<EZ,K>
C662	87-010-322-080		C-CAP,S 100P-50CH<EZ,K>
C663	87-010-322-080		C-CAP,S 100P-50CH<EZ,K>
C664	87-010-322-080		C-CAP,S 100P-50CH<EZ,K>
C667	87-010-196-080		CHIP CAPACITOR,0.1-25
C669	87-010-322-080		C-CAP,S 100P-50CH<EZ,K>
C670	87-010-322-080		C-CAP,S 100P-50CH<EZ,K>
C671	87-010-322-080		C-CAP,S 100P-50CH<EZ,K>
C672	87-010-322-080		C-CAP,S 100P-50CH<EZ,K>
C701	87-010-381-080		CAP, ELECT 330-16V
C702	87-010-404-080		CAP, ELECT 4.7-50V
C703	87-010-197-080		CAP, CHIP 0.01 DM
C704	87-010-197-080		CAP, CHIP 0.01 DM
C709	87-010-322-080		C-CAP,S 100P-50 CH
C711	87-010-263-080		CAP, ELECT 100-10V
C712	87-010-196-080		CHIP CAPACITOR,0.1-25
C713	87-010-197-080		CAP, CHIP 0.01 DM
C714	87-010-197-080		CAP, CHIP 0.01 DM
C715	87-010-322-080		C-CAP,S 100P-50 CH<EZ,K>
C721	87-010-312-080		C-CAP,S 15P-50 CH
C722	87-010-312-080		C-CAP,S 15P-50 CH
C723	87-010-178-080		CHIP CAP 1000P
C725	87-010-178-080		CHIP CAP 1000P
C727	87-010-196-080		CHIP CAPACITOR,0.1-25
C728	87-010-248-080		CAP, ELECT 220-10V
C755	87-010-197-080		CAP, CHIP 0.01 DM
C756	87-010-197-080		CAP, CHIP 0.01 DM
C757	87-010-318-080		C-CAP,S 47P-50 CH
C758	87-010-149-080		C-CAP,S 5P-50 CH

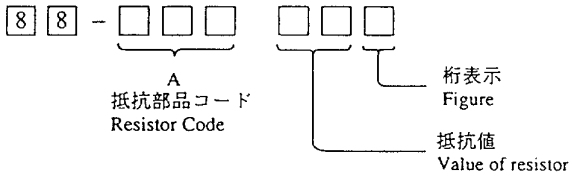
REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
C759	87-012-154-080		C-CAP,S 150P-50 CH<HE,HR>
C760	87-012-154-080		C-CAP,S 150P-50 CH<HE,HR>
C761	87-010-196-080		CHIP CAPACITOR,0.1-25
C762	87-010-197-080		CAP, CHIP 0.01 DM
C763	87-010-194-080		CAP, CHIP 0.047
C764	87-010-319-080		C-CAP,S 56P-50 CH<HE,HR>
C765	87-010-197-080		CAP, CHIP 0.01 DM
C766	87-010-197-080		CAP, CHIP 0.01 DM
C767	87-010-405-080		CAP, ELECT 10-50V
C768	87-010-197-080		CAP, CHIP 0.01 DM
C769	87-010-408-080		CAP, ELECT 47-50V
C770	87-015-821-080		C-CAP 0.047
C771	87-010-407-080		CAP, ELECT 33-50V
C772	87-010-194-080		CAP, CHIP 0.047
C773	87-010-196-080		CHIP CAPACITOR,0.1-25<HE,HR>
C773	87-010-179-080		C-CAP,S 1200P BK<EZ,K>
C774	87-010-263-080		CAP, ELECT 100-10V
C775	87-010-404-080		CAP, ELECT 4.7-50V
C776	87-010-197-080		CAP, CHIP 0.01 DM
C777	87-010-400-080		CAP, ELECT 0.47-50V
C778	87-010-401-080		CAP, ELECT 1-50V
C779	87-010-401-080		CAP, ELECT 1-50V
C780	87-010-196-080		CHIP CAPACITOR,0.1-25
C781	87-010-405-080		CAP, ELECT 10-50V
C782	87-010-405-080		CAP, ELECT 10-50V
C783	87-015-819-080		CAPACITOR,0.01
C784	87-010-197-080		CAP, CHIP 0.01 DM
C785	87-010-403-080		CAP, ELECT 3.3-50V
C786	87-010-403-080		CAP, ELECT 3.3-50V
C787	87-010-186-080		CAP,CHIP S 4700P<EZ,K>
C788	87-010-186-080		CAP,CHIP S 4700P<EZ,K>
C789	87-010-179-080		CAP,CHIP S B1200P
C790	87-010-179-080		CAP,CHIP S B1200P
C791	87-010-405-080		CAP, ELECT 10-50V
C793	87-010-177-080		C-CAP,S 820P-50 SL<HE,HR>
C793	87-010-180-080		C-CAP,S 1500P BK<EZ>
C793	87-010-181-080		C-CAP,S 1800P BK<K>
C794	87-010-406-080		CAP, ELECT 22-50
C795	87-010-596-080		CAP, S 0.047-16
C796	87-010-403-080		CAP, ELECT 3.3-50V
C797	87-010-180-080		C-CAP,S 1500P BK<EZ,K>
C797	87-010-179-080		C-CAP,S 1200P BK<HE,HR>
C798	87-010-180-080		C-CAP,S 1500P BK<EZ,K>
C798	87-010-179-080		C-CAP,S 1200P BK<HE,HR>
C799	87-010-194-080		CAP, CHIP 0.047
C812	87-010-197-080		CAP, CHIP 0.01 DM
C814	87-010-197-080		CAP, CHIP 0.01 DM
C820	87-010-408-080		CAP, ELECT 47-50V
C821	87-010-197-080		CAP, CHIP 0.01 DM
C822	87-010-197-080		CAP, CHIP 0.01 DM
C823	87-010-197-080		CAP, CHIP 0.01 DM
C828	87-010-196-080		CHIP CAPACITOR,0.1-25
C829	87-010-196-080		CHIP CAPACITOR,0.1-25
C859	87-010-197-080		C-CAP,S 0.01 BK<EZ>
C861	87-012-156-080		C-CAP,S 220P-50 CH<EZ>
C862	87-012-156-080		C-CAP,S 220P-50 CH<EZ>
C863	87-012-140-080		C-CAP,S 470P CH<EZ>
C864	87-010-405-080		CAP,E 10-50V<EZ>
C865	87-010-196-080		C-CAP,S 0.1-25 FZ<EZ>
C866	87-010-405-080		CAP,E 10-50V<EZ>
C867	87-010-197-080		C-CAP,S 0.01 BK<EZ>
C868	87-010-316-080		C-CAP,S 33P-50 CH<EZ>
C869	87-010-314-080		C-CAP,S 22P-50 CH<EZ>
C940	87-010-197-080		C-CAP,S 0.01 BK
C941	87-010-314-080		C-CAP,S 22P-50V<HE,HR>
C942	87-010-151-080		C-CAP,S 7P-50 CH<EZ,K>
C943	87-010-197-080		C-CAP,S 0.01 BK<HE,HR>
C944	87-014-051-080		CAP,PP 560P<HE,HR>
C945	87-010-197-080		C-CAP,S 0.01 BK<HE,HR>
C947	87-010-197-080		C-CAP,S 0.01 BK<EZ,K>
C947	87-010-197-080		C-CAP,S 0.01 BK<HE,HR>
C949	87-014-049-080		CAP,PP 470P-100J<EZ,K>
C950	87-014-073-080		CAP,PP 4700P-100J<HE,HR>
C952	87-010-197-080		C-CAP,S 0.01 BK
C953	87-010-197-080		C-CAP,S 0.01 BK<HE,HR>
C954	87-010-400-080		CAP,E 0.47-50V<HE,HR>
C956	87-010-263-080		CAP,E 100-10V<HE,HR>
C957	87-010-311-080		C-CAP,S 12P CH<EZ,K>
C958	87-010-197-080		C-CAP,S 0.01 BK<EZ,K>
C959	87-010-196-080		CHIP CAPACITOR,0.1-25
C960	87-010-196-080		CHIP CAPACITOR,0.1-25
C962	87-010-401-080		CAP,E 1-50V
CF801	87-008-261-010		FILTER, SFE10.7MA5-A<HE,HR>
CF801	87-008-423-010		FLTR, CF SFE10.7MS3G-A<EZ,K>
CF802	87-008-261-010		FILTER, SFE10.7MA5-A<HE,HR>
CF802	82-785-747-010		CF MS2 GHY,R<EZ,K>
CN301	87-099-827-010		CONN,3P S2M-3W
CN351	87-099-832-010		CONN,8P S2M-8W
CN601	87-099-719-010		CONN,30P TYK-B (X)
CN602	87-A60-131-010		CONN,6P V FE
FB301	87-008-372-080		FLTR,EMI BLOI RNI<EZ,K>
FB601	87-A50-190-080		C-COIL,S BLM21A102S<HE,HR>
FC602	88-906-241-110		FF-CABLE,6P 1.25
FFE801	A8-8ZA-190-030		8ZA-1 FEUNM<HE,HR>
FFE801	A8-6ZA-19C-170		6ZA-1 YFEENC<EZ,K>
J201	87-A60-488-010		JACK,DIA6.3 BLK ST W/SW KM16AT
J202	87-A60-641-010		JACK,PIN 4P R/W/B JA
J203	87-033-240-010		TERMINAL,SP 4P32SV1-05
J601	87-A60-426-010		JACK,PIN 6P YKC21-3835
J801	87-033-239-010		TERMINAL,HSP-154V-2<HE,HR>
J801	87-A60-427-010		TERMINAL,ANT PAL 2P YKD31<EZ,K>
J940	81-754-629-010		CONNECTOR XH 2P (UL)<HE,HR>
L201	87-003-383-010		COIL,1UH-S
L202	87-003-383-010		COIL,1UH-S
L301	87-A50-049-010		COIL,TRAP 85K(COI)
L302	87-A50-049-010		COIL,TRAP 85K(COI)
L351	87-007-342-010		COIL,OSC 85K BIAS
L771	87-A50-266-010		COIL,FM DET-2N(TOK)
L772	87-A90-052-010		FLTR,CFMT-450A (TOK)<HE,HR>
L781	87-005-847-080		COIL,2.2UH(CECS)
L791	87-A50-027-010		COIL,1 POLE MPX (TOK)<EZ,K>
L792	87-A50-027-010		COIL,1 POLE MPX (TOK)<EZ,K>
L832	86-NFZ-694-080		COIL,2.2UH K CECS
L941	87-A50-020-010		COIL,ANT LW (COI) 252KHZ<EZ,K>
L941	87-A50-022-010		COIL,ANT SW (COI)7.96MHZ<HE,HR>
L942	87-A50-173-010		COIL,OSC SW-N(COI)<HE,HR>
L942	87-A50-019-010		COIL,OSC LW(COI) 856KHZ<EZ,K>
L943	87-005-372-080		COIL,S 1MHM<HE,HR>
L944	87-A50-159-010		COIL,10MH K C2B<HE,HR>
L981	88-NF8-625-010		COIL,AM PACK 3N(TOK)<HE,HR>
L981	87-NF4-651-010		COIL,AM PACK 2N(TOM)<EZ,K>
R237	87-A00-262-080		RES,M/F 0.15-2W J
R238	87-A00-262-080		RES,M/F 0.15-2W J
R239	87-A00-262-080		RES,M/F 0.15-2W J
R240	87-A00-262-080		RES,M/F 0.15-2W J
RY101	87-A90-464-010		RELAY, DG12D2-0(M)
RY201	87-A90-713-010		RELAY, 12V DQ12D1
SFR301	87-A90-557-080		SFR,33K H HOKU<EZ,K>
SFR302	87-A90-557-080		SFR,33K H HOKU<EZ,K>
SFR303	87-A90-557-080		SFR,33K H HOKU<EZ,K>
SFR304	87-A90-557-080		SFR,33K H HOKU<EZ,K>
SFR305	87-A90-433-080		SFR,50K H NVZ6TLTA<EZ,K>
SFR306	87-A90-433-080		SFR,50K H NVZ6TLTA<EZ,K>
SFR351	87-A90-433-080		SFR,50K H NVZ6TLTA
SFR352	87-A90-433-080		SFR,50K H NVZ6TLTA
TC941	87-011-220-080		TRIMMER,CAP 20P VTC<HE,HR>
TC942	87-011-221-080		CAP TRIMMER 30P<EZ,K>
TC943	87-011-221-080		CAP,TRIMMER 30P<HE,HR>
TH201	87-A90-221-080		C-THMS,100K
TH202	87-A90-221-080		C-THMS,100K

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
W102	87-A90-460-010		HLDR,WIRE 2.5-7P
W104	85-NF5-628-010		F-CABLE 7P-2.5
WH102	87-A90-460-010		HLDR,WIRE 2.5-7P
X721	87-A70-061-010		VIB,XTAL 4.500MHZ CSA-309
X771	87-030-354-010		VIB,CER 450.0KHZ BFU C<HE,HR>
X851	87-A70-091-010		VIB,XTAL 4.332MHZ CSA-309<EZ>
FRONT C.B			
C101	87-010-075-040		CAP,E 10-16 5L
C102	87-010-196-080		CHIP CAPACITOR,0.1-25
C103	87-010-196-080		CHIP CAPACITOR,0.1-25
C104	87-010-494-040		CAP,E 1-50 GAS
C105	87-010-178-080		CHIP CAP 1000P
C106	87-A10-189-040		CAP,E 220-10
C107	87-010-197-080		CAP, CHIP 0.01 DM
C108	87-010-196-080		CHIP CAPACITOR,0.1-25
C109	87-010-194-080		CAP, CHIP 0.047
C110	87-012-157-080		C-CAP,S 330P-50 CH
C111	87-010-320-080		CHIP CAP 68P
C112	87-010-312-080		C-CAP,S 15P-50 CH
C113	87-010-316-080		C-CAP,S 33P-50 CH
C114	87-010-182-080		C-CAP,S 2200P-50 B
C115	87-010-182-080		C-CAP,S 2200P-50 B
C116	87-010-405-040		CAP,E 10-50
C117	87-012-157-080		C-CAP,S 330P-50 CH
C118	87-010-196-080		CHIP CAPACITOR,0.1-25
C119	87-010-196-080		CHIP CAPACITOR,0.1-25
C120	87-010-196-080		CHIP CAPACITOR,0.1-25
C121	87-010-194-080		CAP, CHIP 0.047
C122	87-010-194-080		CAP, CHIP 0.047
C125	87-010-196-080		CHIP CAPACITOR,0.1-25
C151	87-010-197-080		CAP, CHIP 0.01 DM
C201	87-010-178-080		CHIP CAP 1000P
C202	87-010-194-080		CAP, CHIP 0.047
C203	87-010-408-040		CAP,E 47-50 SME
C204	87-010-404-040		CAP,E 4.7-50 SME
C205	87-010-404-040		CAP,E 4.7-50 SME
C211	87-012-140-080		C-CAP,S 470P
C219	87-012-157-080		C-CAP,S 330P-50 CH
C220	87-012-157-080		C-CAP,S 330P-50 CH
C221	87-012-157-080		C-CAP,S 330P-50 CH
C222	87-012-157-080		C-CAP,S 330P-50 CH
C225	87-012-157-080		C-CAP,S 330P-50 CH
C371	87-010-196-080		CHIP CAPACITOR,0.1-25
C372	87-010-196-080		CHIP CAPACITOR,0.1-25
C373	87-010-196-080		CHIP CAPACITOR,0.1-25
C375	87-010-196-080		CHIP CAPACITOR,0.1-25
C376	87-012-158-080		C-CAP,S 390P-50 CH
C377	87-010-196-080		CHIP CAPACITOR,0.1-25
C378	87-010-196-080		CHIP CAPACITOR,0.1-25
C402	87-010-196-080		CHIP CAPACITOR,0.1-25
C404	87-010-196-080		CHIP CAPACITOR,0.1-25
C406	87-010-196-080		CHIP CAPACITOR,0.1-25
C408	87-010-196-080		CHIP CAPACITOR,0.1-25
C501	87-010-319-080		C-CAP,S 56P-50 CH
C502	87-010-319-080		C-CAP,S 56P-50 CH
C503	87-012-393-080		C-CAP,S 0.22-16 R K
C504	87-010-197-080		CAP, CHIP 0.01 DM
C505	87-010-180-080		C-CER 1500P
C506	87-010-213-080		C-CAP,S 0.015-50 B
C507	87-010-213-080		C-CAP,S 0.015-50 B
C508	87-010-197-080		CAP, CHIP 0.01 DM
C509	87-010-181-080		CAP,CHIP S 1800P
C510	87-010-196-080		CHIP CAPACITOR,0.1-25
C511	87-010-544-040		CAP,E 0.1-50 SME
C512	87-010-374-040		CAP,E 47-10
C513	87-010-401-040		CAP,E 1-50 SME
C514	87-010-401-040		CAP,E 1-50 SME
C515	87-010-183-080		C-CAP,S 2700P-50 B
C516	87-010-183-080		C-CAP,S 2700P-50 B
C518	87-010-196-080		CHIP CAPACITOR,0.1-25
C519	87-010-263-040		CAP,E 100-10
C523	87-012-141-080		CHIP-CAPACITOR,0.22-16F
C601	87-010-405-040		CAP,E 10-50
C602	87-010-186-080		CAP,CHIP 4700P
C603	87-010-405-040		CAP,E 10-50
C604	87-010-406-040		CAP,E 22-50 SME
C605	87-010-196-080		CHIP CAPACITOR,0.1-25
C606	87-010-322-080		C-CAP,S 100P-50 CH
C607	87-010-321-080		CHIP CAPACITOR,82P(J)
C608	87-010-196-080		CHIP CAPACITOR,0.1-25
C609	87-010-545-040		CAP,E 0.22-50 SME
C610	87-010-322-080		C-CAP,S 100P-50 J CH GRM
C611	87-010-177-080		C-CAP,S 820P-50 SL
C614	87-010-248-040		CAP,E 220-10 SME
C651	87-010-401-040		CAP,E 1-50 SME
C652	87-010-196-080		CHIP CAPACITOR,0.1-25
C653	87-010-196-080		CHIP CAPACITOR,0.1-25
C901	87-010-263-040		CAP,E 100-10
C902	87-010-196-080		CHIP CAPACITOR,0.1-25
C903	87-010-313-080		CAP, CHIP 18P
C904	87-012-155-080		C-CAP 180P-50CH
C905	87-010-400-040		CAP,E 0.47-50
FB601	87-008-372-080		FILTER, EMI BL OIRNI
FC301	85-NF5-617-010		CABLE,FFC 6P-1.25
FC501	88-915-221-110		FF-CABLE,15P-1.25 220MM
FC801	85-NF5-618-010		CABLE,FFC 13P-1.25
FL201	88-NF6-611-010		FL,BJ610GK
J601	87-A60-651-010		JACK,3.5MONO
J602	87-A60-651-010		JACK,3.5MONO
L501	87-005-212-080		COIL,220UH
L901	87-007-340-010		COIL,CLOCK 4.19MHZ
LED401	87-070-197-080		LED,SLP7118C-51-S-T1
LED402	87-070-197-080		LED,SLP7118C-51-S-T1
LED403	87-070-197-080		LED,SLP7118C-51-S-T1
LED404	87-070-197-080		LED,SLP7118C-51-S-T1
LED405	87-070-197-080		LED,SLP7118C-51-S-T1
LED406	87-070-197-080		LED,SLP7118C-51-S-T1
LED407	87-070-197-080		LED,SLP7118C-51-S-T1
LED408	87-070-197-080		LED,SLP7118C-51-S-T1
LED409	87-070-197-080		LED,SLP7118C-51-S-T1
LED410	87-070-197-080		LED,SLP7118C-51-S-T1
LED411	87-070-201-080		LED,SLP9118C-51-S-T1
LED412	87-070-201-080		LED,SLP9118C-51-S-T1
LED413	87-070-201-080		LED,SLP9118C-51-S-T1
LED414	87-070-201-080		LED,SLP9118C-51-S-T1
LED415	87-070-201-080		LED,SLP9118C-51-S-T1
LED417	87-070-281-080		LED,SLZ736A-25-S-T1
LED419	87-070-281-080		LED,SLZ736A-25-S-T1
LED421	87-070-281-080		LED,SLZ736A-25-S-T1
LED423	87-070-281-080		LED,SLZ736A-25-S-T1
LED425	87-070-281-080		LED,SLZ736A-25-S-T1
LED427	87-070-281-080		LED,SLZ736A-25-S-T1
LED428	87-A40-448-080		LED,SLR-56PTT31 GRN
LED429	87-A40-448-080		LED,SLR-56PTT31 GRN
LED430	87-A40-448-080		LED,SLR-56PTT31 GRN
LED431	87-A40-448-080		LED,SLR-56PTT31 GRN
LED432	87-A40-448-080		LED,SLR-56PTT31 GRN
LED433	87-A40-448-080		LED,SLR-56PTT31 GRN
LED434	87-A40-448-080		LED,SLR-56PTT31 GRN
LED435	87-A40-448-080		LED,SLR-56PTT31 GRN
LED436	87-A40-448-080		LED,SLR-56PTT31 GRN
LED437	87-A40-448-080		LED,SLR-56PTT31 GRN
LED444	87-070-278-010		LED,SLZ-738A-24-S
LED445	87-070-290-010		LED,SLZ 936-30-S
LED446	87-070-278-010		LED,SLZ-738A-24-S
LED447	87-070-278-010		LED,SLZ-738A-24-S
LED448	87-070-290-010		LED,SLZ 936-30-S

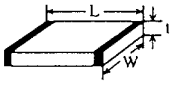
REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
LED449	87-070-278-010		LED,SLZ-738A-24-S
S101	87-A90-894-010		SW,RTRY EC12E12244 ENCODER
S102	87-A90-535-010		SW,RTRY EC16B24304
S301	87-A90-095-080		SW,TACT EVQ11G04M
S302	87-A90-095-080		SW,TACT EVQ11G04M
S303	87-A90-095-080		SW,TACT EVQ11G04M
S304	87-A90-095-080		SW,TACT EVQ11G04M
S305	87-A90-095-080		SW,TACT EVQ11G04M
S306	87-A90-095-080		SW,TACT EVQ11G04M
S307	87-A90-095-080		SW,TACT EVQ11G04M
S308	87-A90-095-080		SW,TACT EVQ11G04M
S309	87-A90-095-080		SW,TACT EVQ11G04M
S310	87-A90-095-080		SW,TACT EVQ11G04M
S311	87-A90-095-080		SW,TACT EVQ11G04M
S312	87-A90-095-080		SW,TACT EVQ11G04M
S313	87-A90-095-080		SW,TACT EVQ11G04M
S314	87-A90-095-080		SW,TACT EVQ11G04M<EZ,K>
S321	87-A90-095-080		SW,TACT EVQ11G04M
S322	87-A90-095-080		SW,TACT EVQ11G04M
S323	87-A90-095-080		SW,TACT EVQ11G04M
S324	87-A90-095-080		SW,TACT EVQ11G04M
S325	87-A90-095-080		SW,TACT EVQ11G04M
S326	87-A90-095-080		SW,TACT EVQ11G04M
S327	87-A90-095-080		SW,TACT EVQ11G04M
S328	87-A90-095-080		SW,TACT EVQ11G04M<EZ>
S329	87-A90-095-080		SW,TACT EVQ11G04M<EZ>
S330	87-A90-095-080		SW,TACT EVQ11G04M<EZ>
S333	87-A90-095-080		SW,TACT EVQ11G04M
S341	87-A90-095-080		SW,TACT EVQ11G04M
S342	87-A90-095-080		SW,TACT EVQ11G04M
S343	87-A90-095-080		SW,TACT EVQ11G04M
S344	87-A90-095-080		SW,TACT EVQ11G04M
S345	87-A90-095-080		SW,TACT EVQ11G04M
S346	87-A90-095-080		SW,TACT EVQ11G04M
S347	87-A90-095-080		SW,TACT EVQ11G04M
S348	87-A90-095-080		SW,TACT EVQ11G04M
S349	87-A90-095-080		SW,TACT EVQ11G04M
S350	87-A90-095-080		SW,TACT EVQ11G04M
X101	87-A70-070-080		VIB,CER 5.76MHZ CRHF
SW C.B			
LED438	87-070-197-080		LED,SLP7118C-51-S-T1
LED439	87-070-197-080		LED,SLP7118C-51-S-T1
LED440	87-070-197-080		LED,SLP7118C-51-S-T1
LED441	87-070-197-080		LED,SLP7118C-51-S-T1
LED442	87-070-197-080		LED,SLP7118C-51-S-T1
LED443	87-070-197-080		LED,SLP7118C-51-S-T1
S351	87-A90-095-080		SW,TACT EVQ11G04M
S352	87-A90-095-080		SW,TACT EVQ11G04M
S353	87-A90-095-080		SW,TACT EVQ11G04M
S354	87-A90-095-080		SW,TACT EVQ11G04M
S355	87-A90-095-080		SW,TACT EVQ11G04M
AC1 C.B			
⚠ F101	87-035-368-010		FUSE,4A 250V<HE,HR,EZ>
⚠ F101	87-035-367-010		FUSE,3.15A 250V<K>
⚠ F102	87-035-368-010		FUSE,4A 250V<HE,HR>
⚠ FC1	87-033-147-010		FUSE CLAMP,MT-20<HE,HR>
⚠ FC2	87-033-147-010		FUSE CLAMP,MT-20<HE,HR>
⚠ FC3	87-033-147-010		FUSE CLAMP,MT-20<HE,HR>
⚠ FC4	87-033-147-010		FUSE CLAMP,MT-20<HE,HR>
⚠ FC101	87-A90-505-080		FUSE CLAMP,TP00351-51<EZ,K>
⚠ FC102	87-A90-505-080		FUSE CLAMP,TP00351-51<EZ,K>
⚠ PT101	88-NF6-622-010		PT,8NF-6 HR<HE,HR>
⚠ PT101	88-NF6-623-010		PT,8NF-6 EZ<EZ>
⚠ PT101	88-NF6-626-010		PT,8NF-6 KVG<K>
⚠ SW101	87-A90-165-010		SW,SL 1-2-3 SWS2301<HE,HR>
⚠ T101	87-A60-317-010		TERMINAL, 1P MSC<EZ,K>
⚠ T102	87-A60-317-010		TERMINAL, 1P MSC<EZ,K>
⚠ T1	87-A60-317-010		TERMINAL, 1P MSC<HE,HR>
⚠ T2	87-A60-317-010		TERMINAL, 1P MSC<HE,HR>
AC2 C.B			
⚠ PR101	87-026-682-080		PROTECTOR,10A 60V491
⚠ PR102	87-026-682-080		PROTECTOR,10A 60V491
⚠ PR103	87-026-682-080		PROTECTOR,10A 60V491
⚠ PR104	87-026-682-080		PROTECTOR,10A 60V491
⚠ WH101	87-A90-460-010		HLDR,WIRE 2.5-7P
DECK C.B			
CON105	87-099-756-019		CONN, 15P 9604 S F
SFR1	87-024-581-019		SFR,3.3K DIA 6H
SOL1	82-ZM1-618-410		SOL ASSY, 27
SOL2	82-ZM1-618-410		SOL ASSY, 27
SW1	87-A90-248-019		SW,MICRO ESE11SH2CXQ
SW2	87-A90-248-019		SW,MICRO ESE11SH2CXQ
SW3	87-A90-248-019		SW,MICRO ESE11SH2CXQ
SW4	87-036-110-010		SW,MICRO SPPB62
SW5	87-036-110-010		SW,MICRO SPPB62
SW6	87-036-110-010		SW,MICRO SPPB62
SW8	87-A90-248-019		SW,MICRO ESE11SH2CXQ
SW9	87-A90-248-019		SW,MICRO ESE11SH2CXQ
W001	82-ZM3-601-019		RBN,CORD,4P-75
HEAD-1 C.B			
HEAD-2 C.B			
CON351	87-NF6-616-010		CONN ASSY,8P-RPB

○ チップ抵抗部品コード／CHIP RESISTOR PART CODE

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



チップ抵抗
Chip resistor

容量 Wattage	種類 Type	許容誤差 Tolerance	記号 Symbol	寸法／Dimensions (mm)				抵抗コード ：A Resistor Code: A
				外形／Form	L	W	t	
1／16W	1608	±5%	CJ		1.6	0.8	0.45	108
1／10W	2125	±5%	CJ		2	1.25	0.45	118
1／8W	3216	±5%	CJ		3.2	1.6	0.55	128

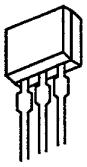
TRANSISTOR ILLUSTRATION

KTA1266GR
KTC3198GR

CC5551

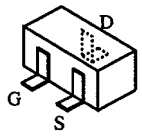
2SA1296

2SB1370
FN1016
FP1016

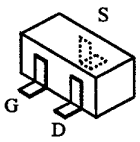


2SA933
2SC4115

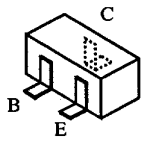
2SK2937



2SK2158



2SK543-TB(4/5)

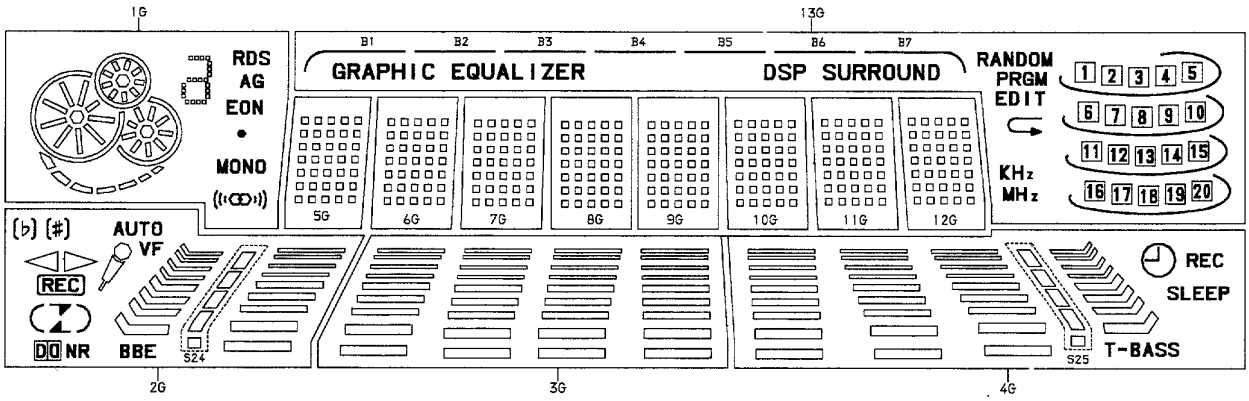


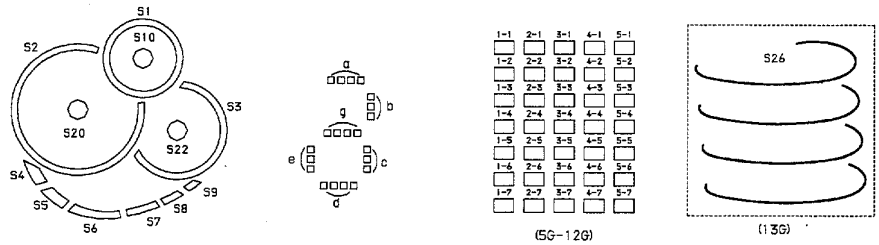
2SA1235F
2SC2714
2SC3052F
CMBT5401
CMBT5551
CSA1362GR
CSD1306E
DTA114WK
DTA123JK
DTA144WK
RN1410
RT1N141C
RT1N144C
RT1P141C
RT1P144C
RT1P441C

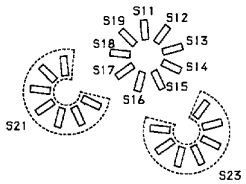
FL GRID ASSIGNMENT & ANODE CONNECTION

FL, BJ610GK

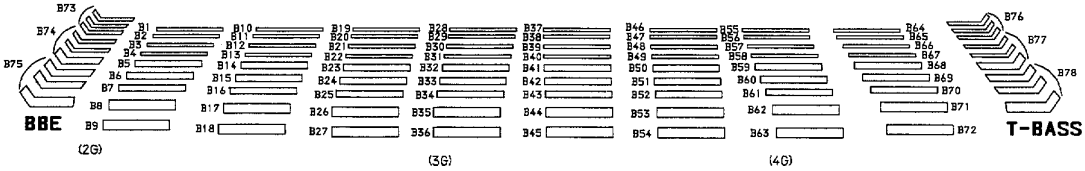
GRID ASSIGNMENT







GRID ASSIGNMENT

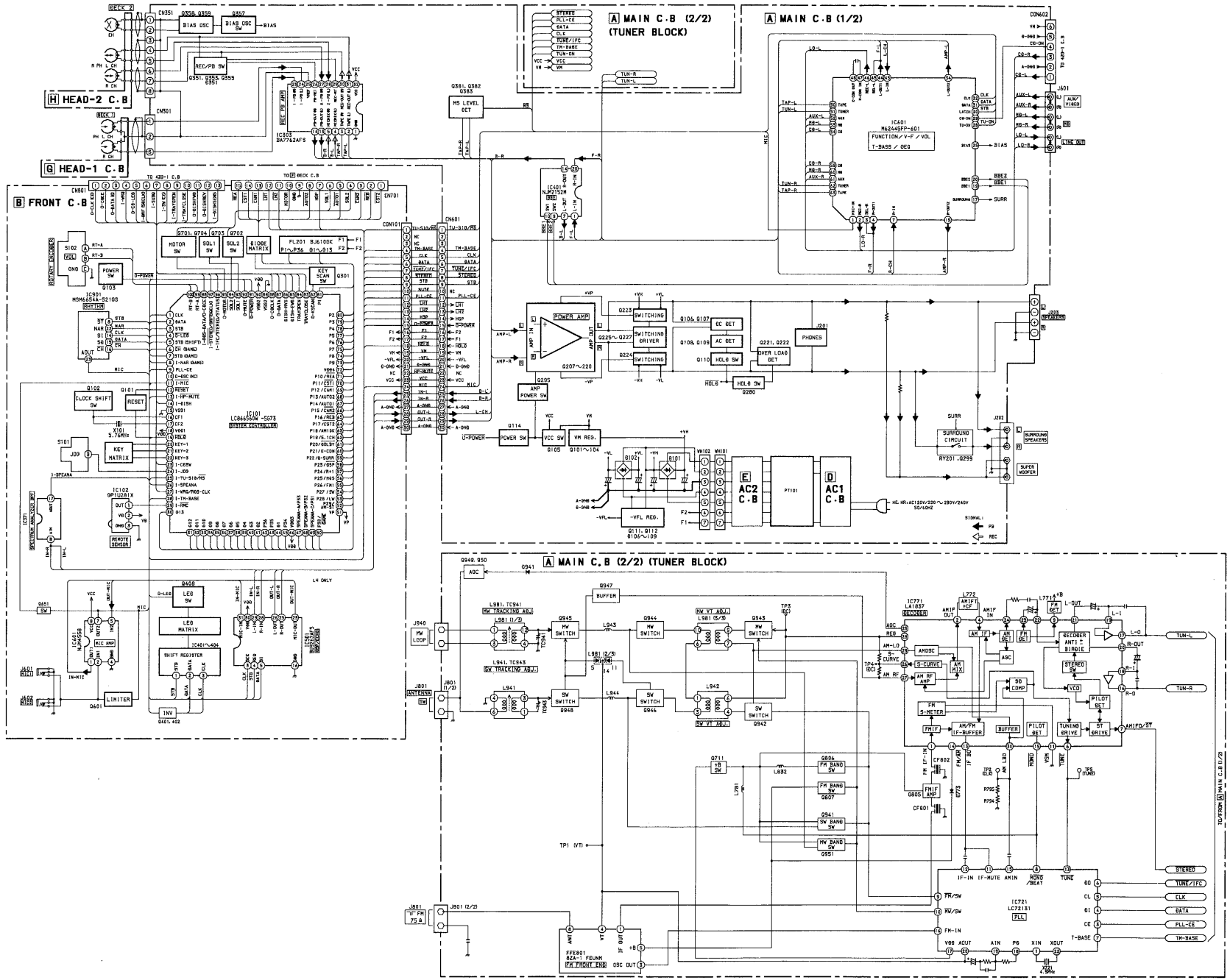


ANODE CONNECTION

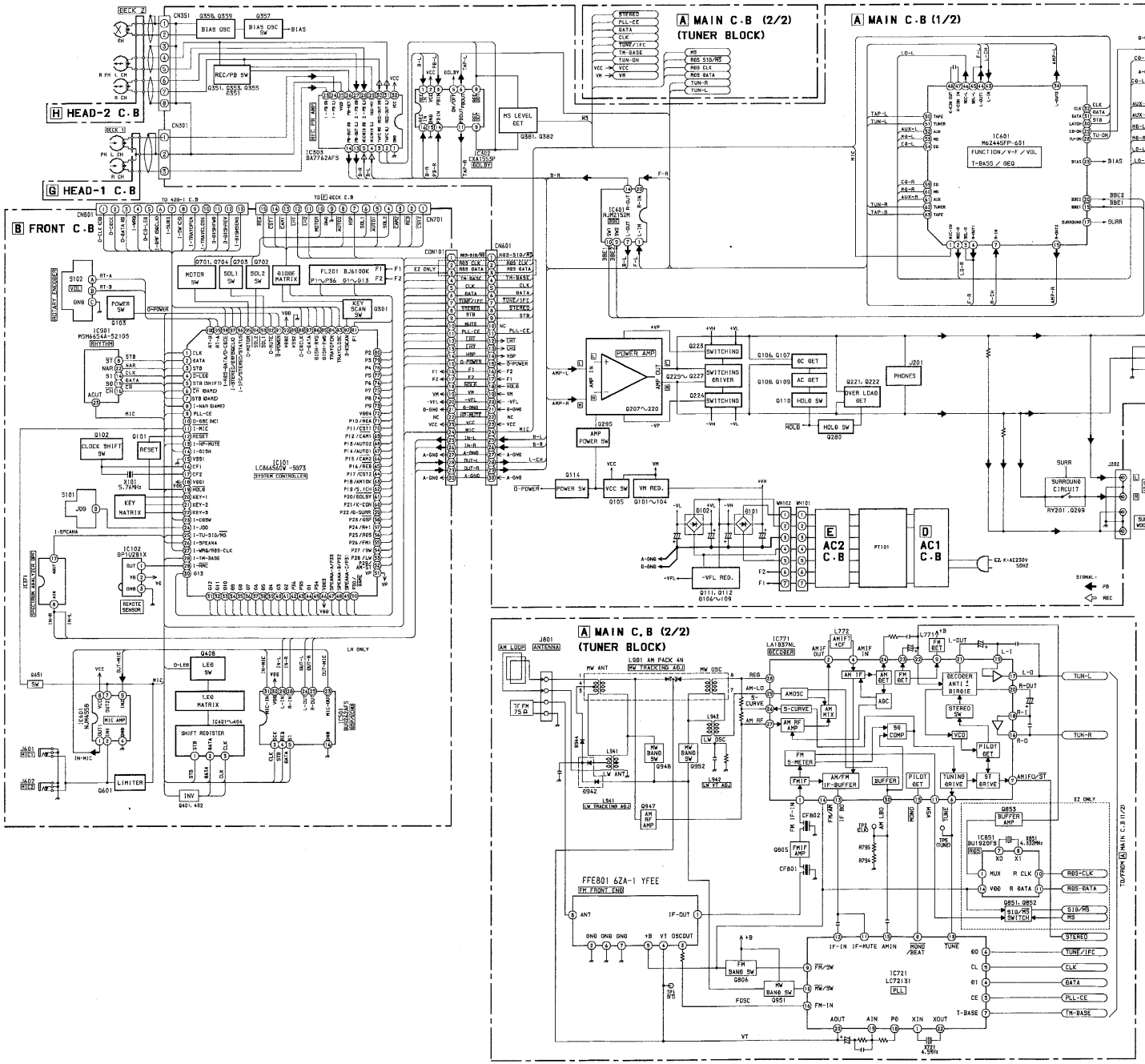
	1G	2G	3G	4G	5G-12G	13G
P1	**EON**	B9	B45	**REC**	1-1	**DSP SURROUND**
P2	**AG**	**DOLBY NR**	B36	B72	2-1	**GRAPHIC EQUALIZER**
P3	●	**BBE**	B27	B63	3-1	B7
P4	**MONO**	S24	B18	B54	4-1	B6
P5	((CD))	B8	B44	⏲	5-1	B5
P6	**RDS**	☾	B35	B71	1-2	B4
P7	b	⇄	B26	B62	2-2	B3
P8	c	☽	B17	B53	3-2	B2
P9	a, d, g	B7	B43	**SLEEP**	4-2	B1
P10	e	**REC**	B34	B70	5-2	**RANDOM**
P11	S1	◁	B25	B61	1-3	**PRGM**
P12	S11	▷	B16	B52	2-3	**EDIT**
P13	S12	B6	B42	**T-BASS**	3-3	⊂
P14	S19	♭ ♯	B33	B69	4-3	**KHz**
P15	S13	(♭)	B24	B60	5-3	**MHz**
P16	S10	(♯)	B15	B51	1-4	S26
P17	S18	B5	B41	B78	2-4	**16**
P18	S14	B75	B32	B68	3-4	**11**

	1G	2G	3G	4G	5G-12G	13G
P19	S17	B74	B23	B59	4-4	**6**
P20	S15	B73	B14	B50	5-4	**1**
P21	S16	B4	B40	B77	1-5	**17**
P22	S3	VF	B31	B67	2-5	**12**
P23	S23	**AUTO**	B22	B58	3-5	**7**
P24	S22	—	B13	B49	4-5	**2**
P25	S9	B3	B39	B76	5-5	**18**
P26	S8	—	B30	B66	1-6	**13**
P27	S7	—	B21	B57	2-6	**8**
P28	S6	—	B12	B48	3-6	**3**
P29	S5	B2	B38	S25	4-6	**19**
P30	S4	—	B29	B65	5-6	**14**
P31	S2	—	B20	B56	1-7	**9**
P32	S21	—	B11	B47	2-7	**4**
P33	S20	B1	B37	—	3-7	**20**
P34	—	—	B28	B64	4-7	**15**
P35	—	—	B19	B55	5-7	**10**
P36	—	—	B10	B46	—	**5**

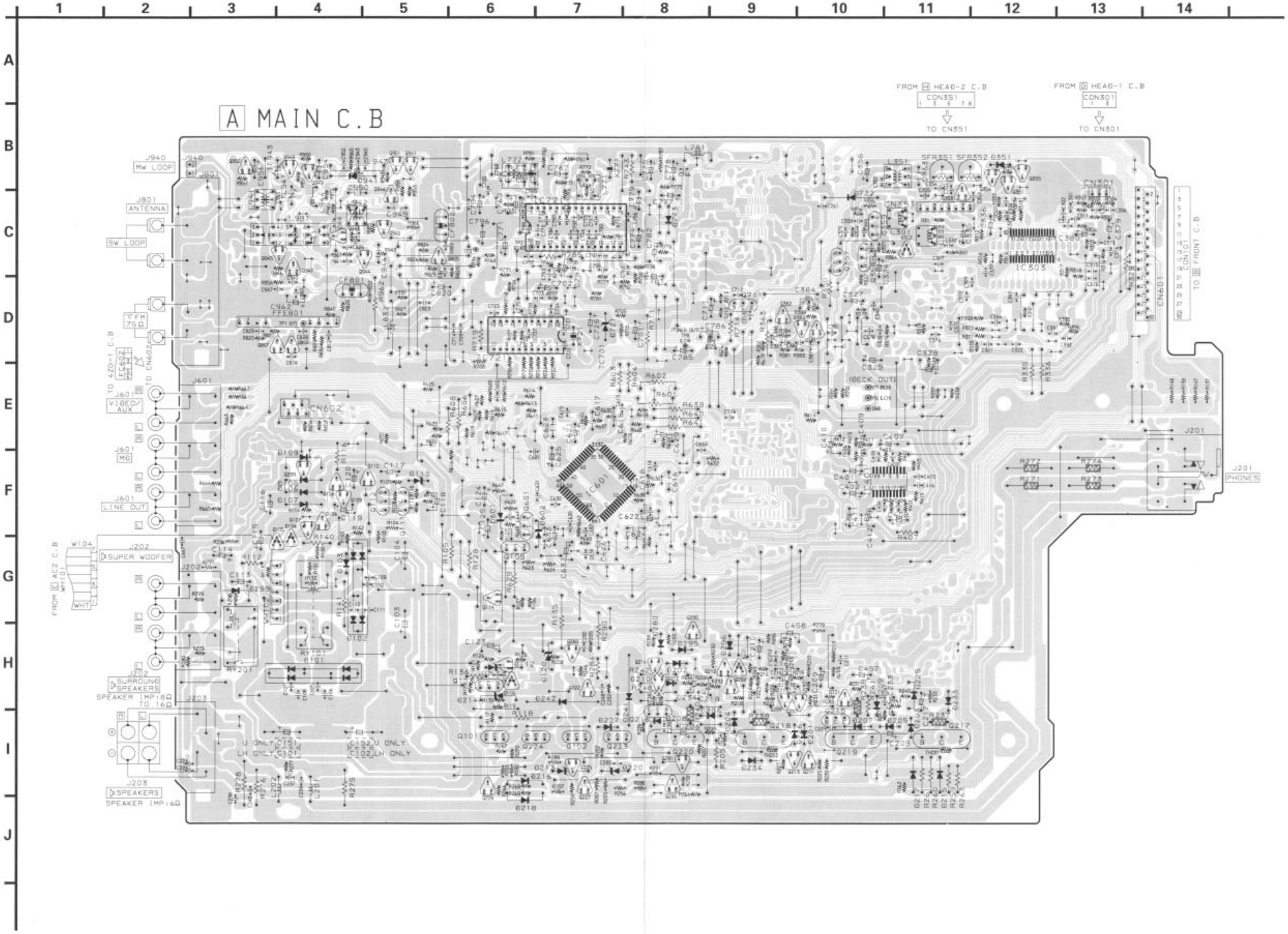
BLOCK DIAGRAM – 1 (HE, HR : MAIN / FRONT)



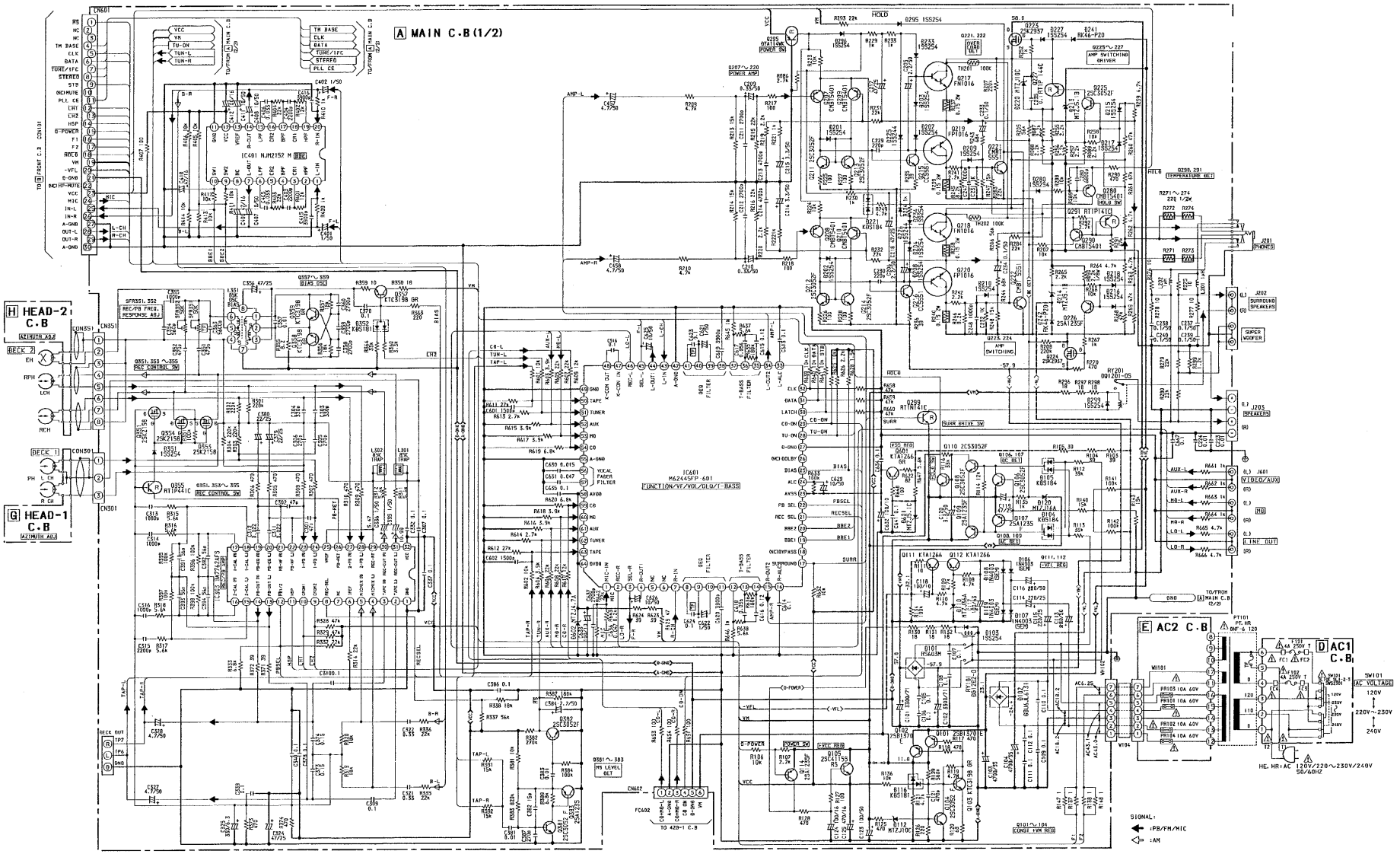
BLOCK DIAGRAM – 2 (EZ, K : MAIN / FRONT)



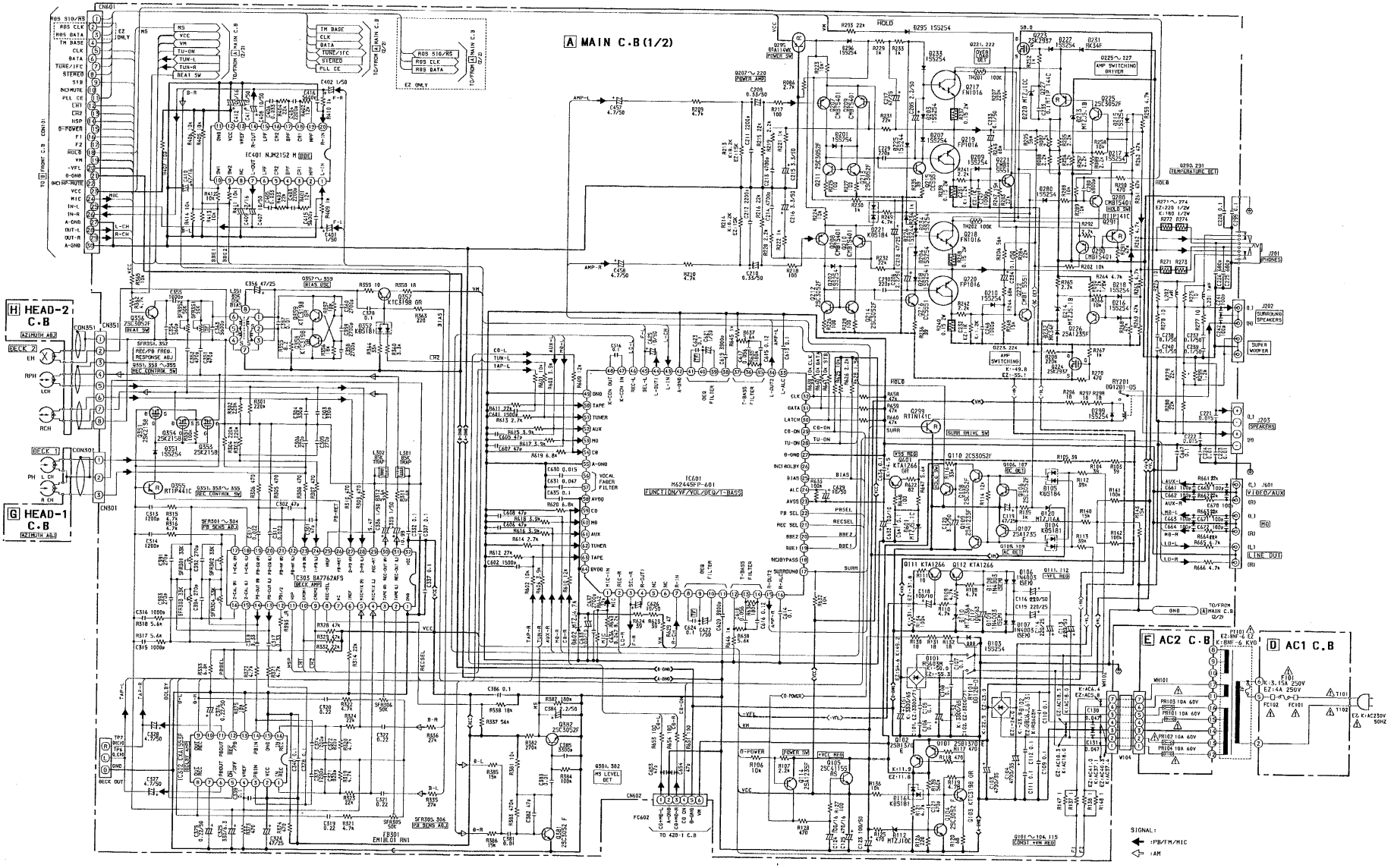
WIRING – 1 (HE, HR : MAIN)



SCHEMATIC DIAGRAM – 1 (HE, HR : MAIN 1 / 2)

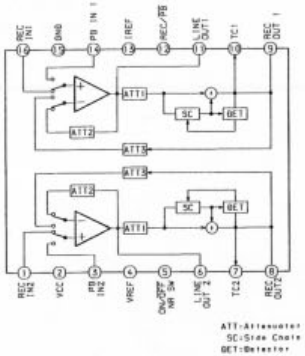


SCHEMATIC DIAGRAM – 2 (EZ, K : MAIN 1 / 2)

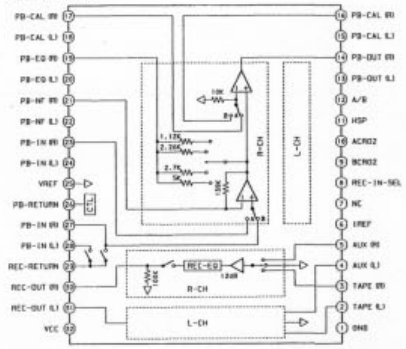


IC BLOCK DIAGRAM – 1

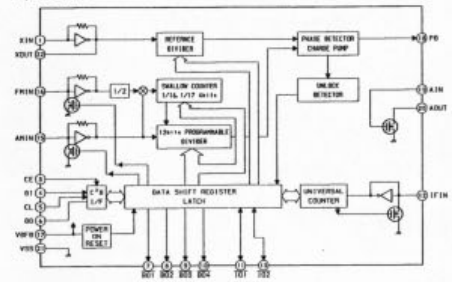
IC, CXA1533P



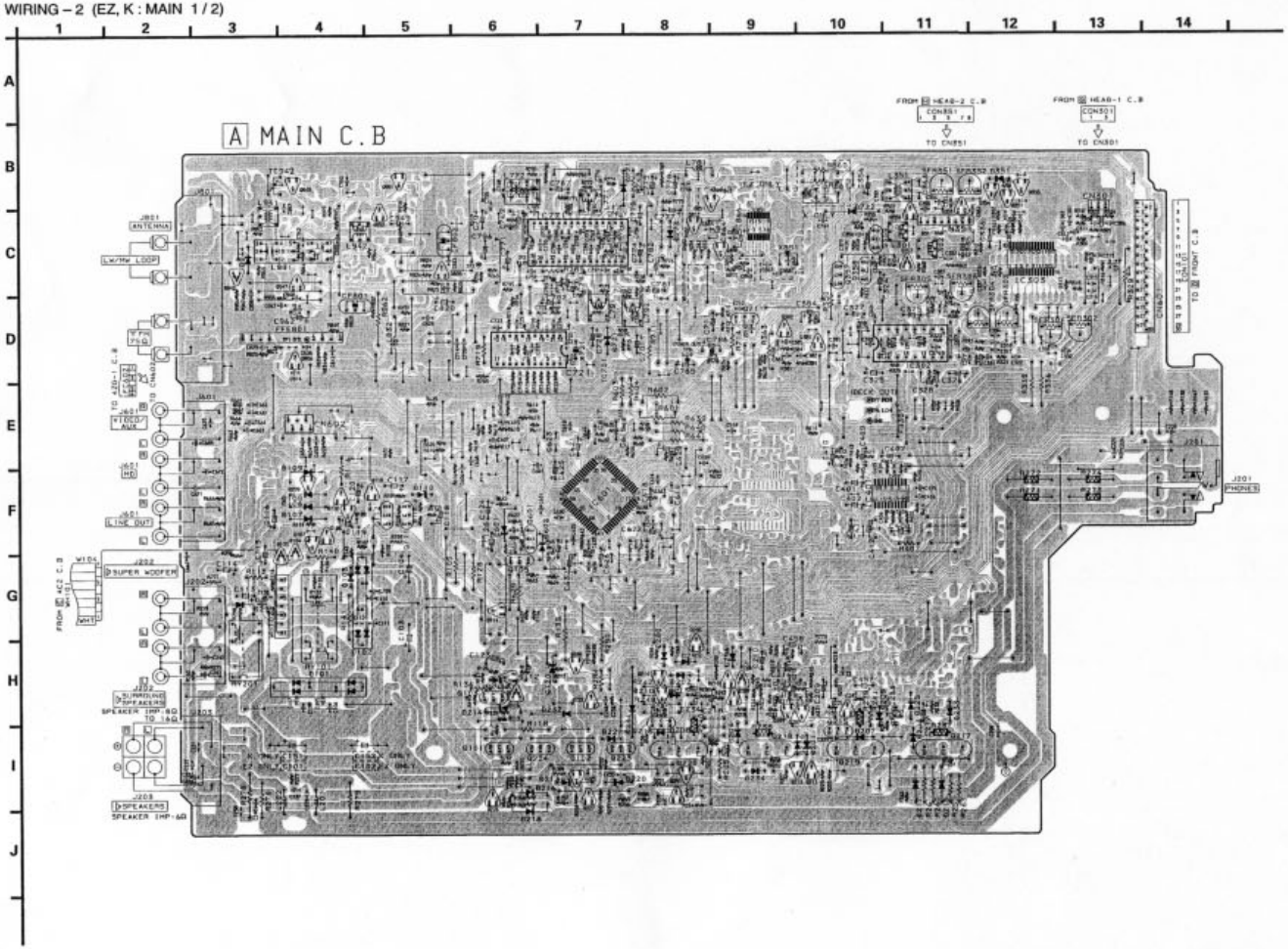
IC, BA7762AFS



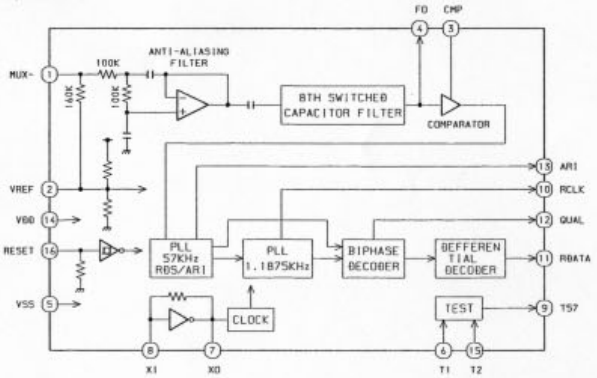
IC, LC72131D



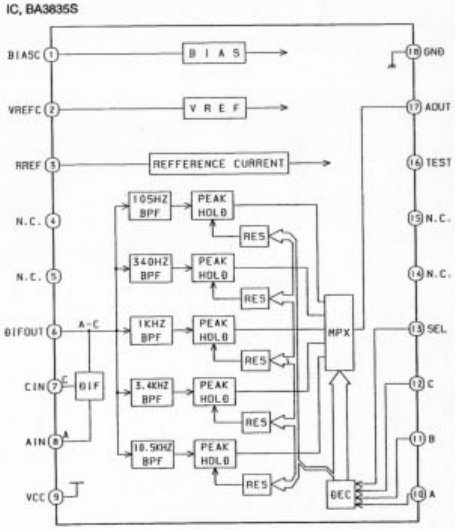
WIRING – 2 (EZ, K : MAIN 1 / 2)

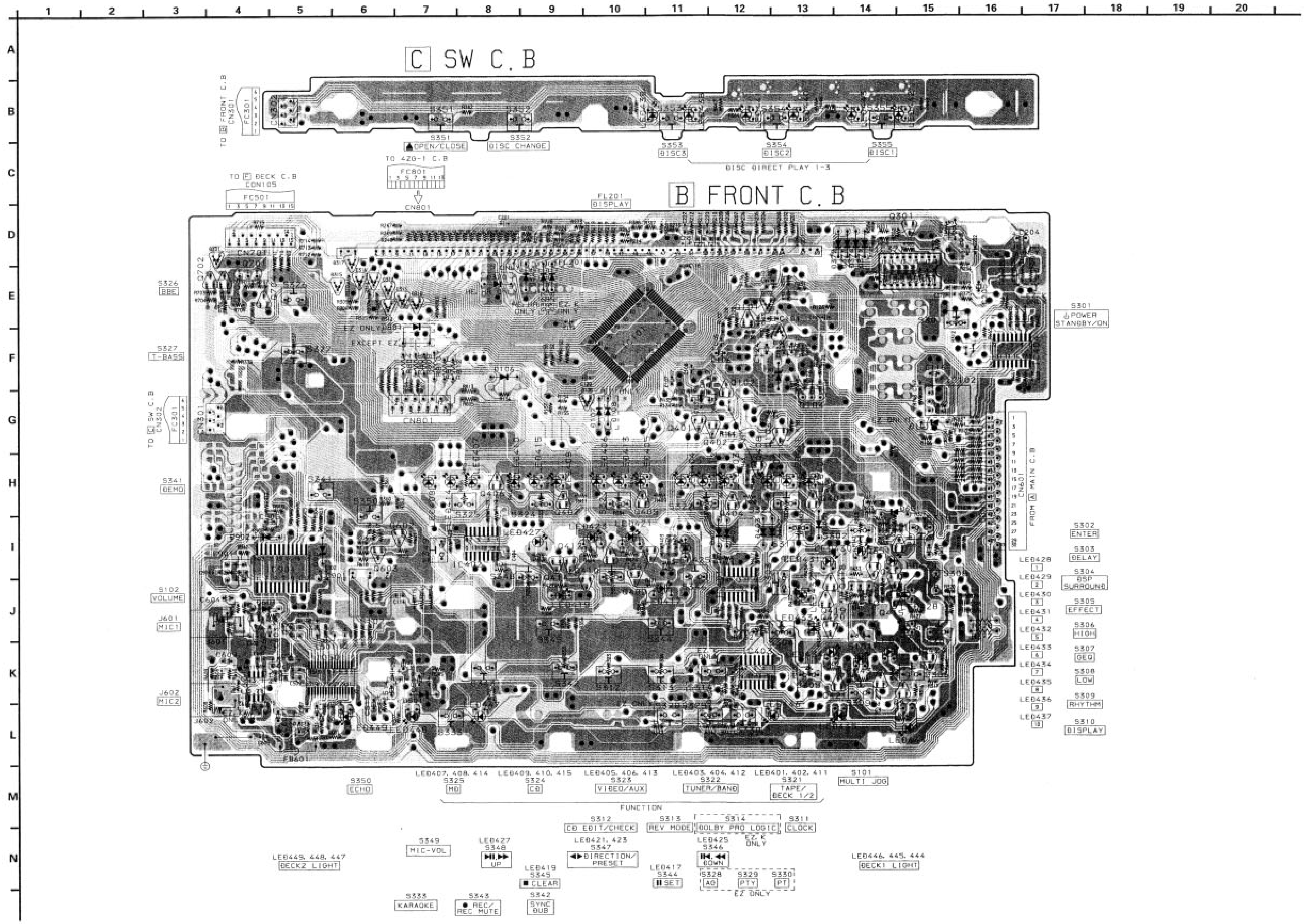


IC, BU1920FS

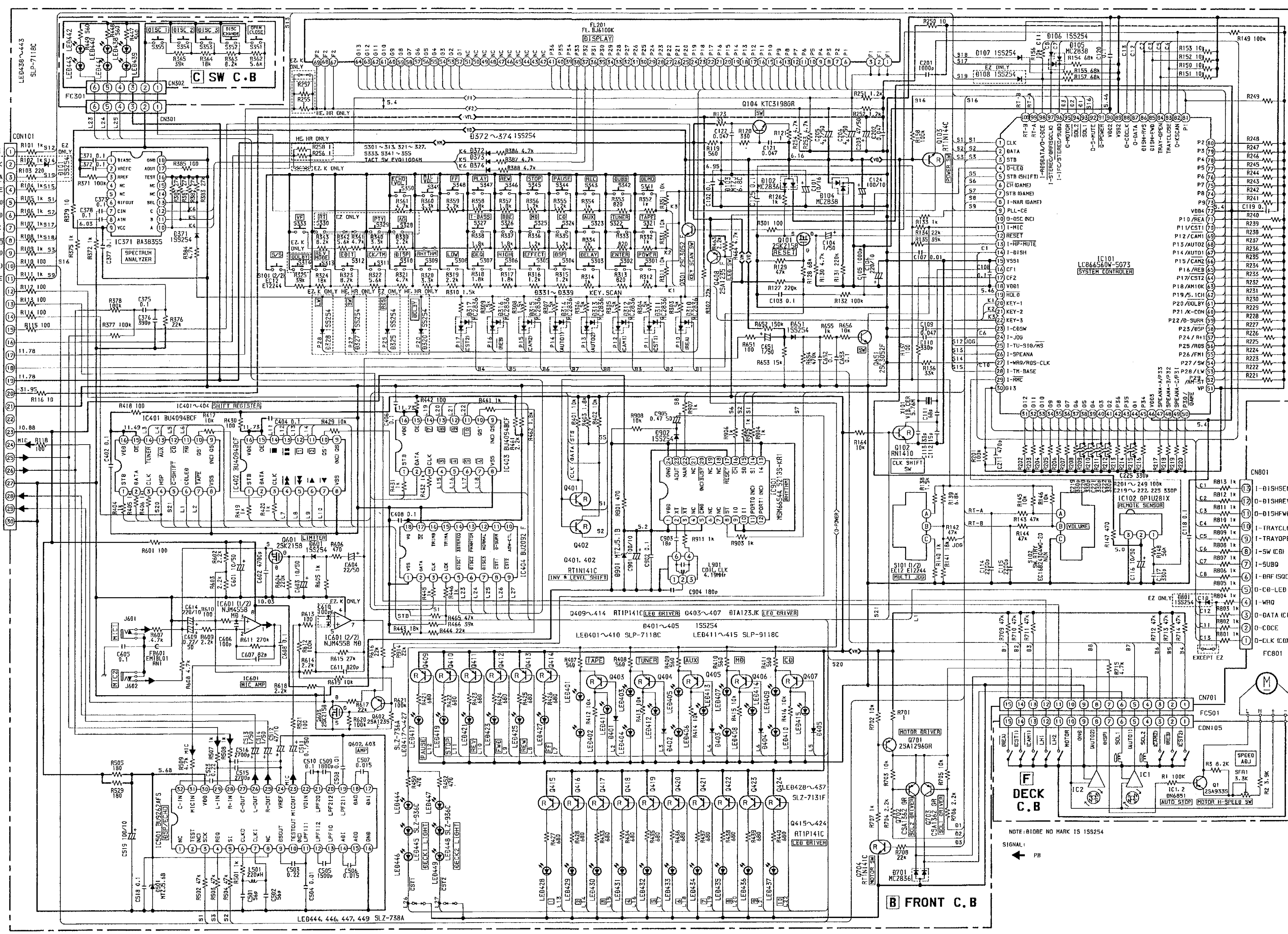


IC, BA3835S



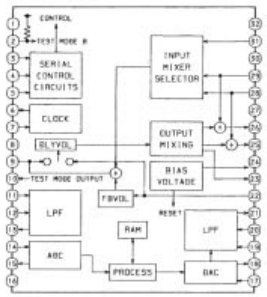

C SW C.B
B FRONT C.B
TO B FRONT C.B CN301
FC301
S351 ▲OPEN/CLOSE
S352 DISC CHANGE
S353 DISC3
S354 DISC2
S355 DISC1
DISC DIRECT PLAY 1-3
TO 4ZG-1 C.B
FC801
CN801
TO F DECK C.B CON105
FC501
FL201 DISPLAY
S326 BBE
S327 T-BASS
TO C SW C.B CN302
FC301
S341 DEMO
S102 VOLUME
J601 MIC1
J602 MIC2
S301 ⏻POWER STANDBY/ON
FROM A MAIN C.B CN601
S302 ENTER
S303 DELAY
S304 DSP SURROUND
S305 EFFECT
S306 HIGH
S307 GEQ
S308 LOW
S309 RHYTHM
S310 DISPLAY
LED428
LED429
LED430
LED431
LED432
LED433
LED434
LED435
LED436
LED437
S350 ECHO
LED407, 408, 414 S325 MD
LED409, 410, 415 S324 CD
LED405, 406, 413 S323 VIDEO/AUX
LED403, 404, 412 S322 TUNER/BAND
LED401, 402, 411 S321 TAPE/ DECK 1/2
FUNCTION
S101 MULTI JOG
S312 CD EDIT/CHECK
S313 REV MODE
S314 DOLBY PRO LOGIC
S311 CLOCK
EZ, K ONLY
LED421, 423 S347 ◀▶DIRECTION/ PRESET
LED425 S346 ⏮,◀◀ DOWN
S349 MIC-VOL
LED427 S348 ▶II,▶▶ UP
LED419 S345 ■ CLEAR
LED417 S344 II SET
S328 AO
S329 PTY
S330 PT
EZ ONLY
LED449, 448, 447 DECK2 LIGHT
LED446, 445, 444 DECK1 LIGHT
S333 KARAOKE
S343 ● REC/ REC MUTE
S342 SYNC DUB

SCHEMATIC DIAGRAM – 3 (FRONT)

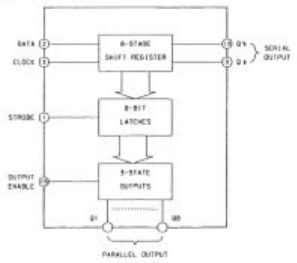


IC BLOCK DIAGRAM – 2

IC, BU9262AFS



IC, BU4094BCF

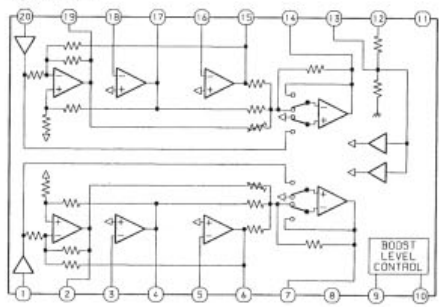


TRUTH TABLE

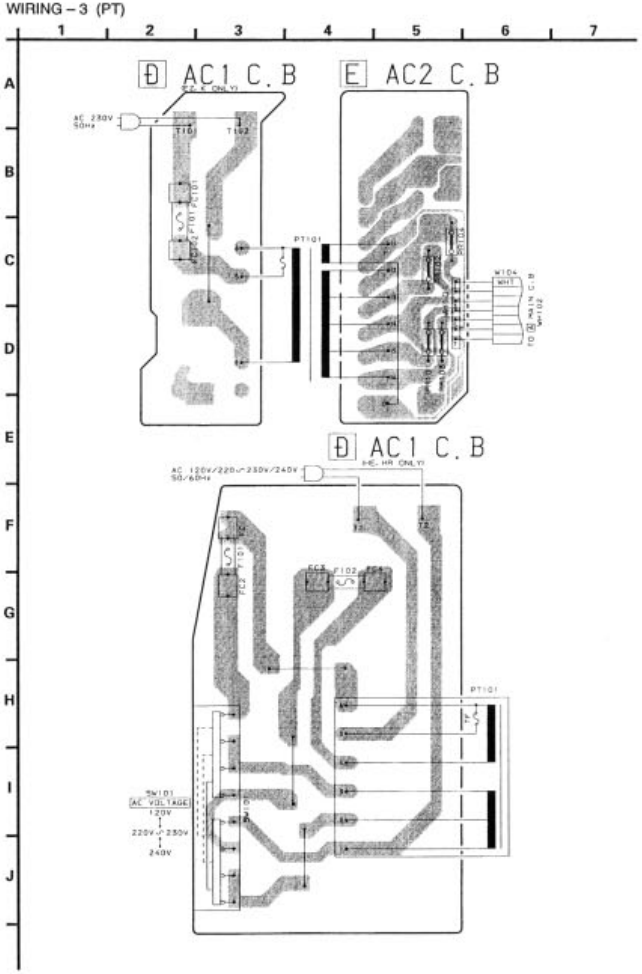
CLOCK	OUTPUT ENABLE	STROBE	DATA	PARALLEL OUTPUTS		SERIAL OUTPUTS	
				Q1	Qn	Qs	Q's
↓	L	X	X	Z	Z	Q7	NO Chg.
↑	L	X	X	Z	Z	No Chg.	Qn
↓	H	L	X	No Chg.	No Chg.	Q7	No Chg.
↑	H	H	L	L	Qn-1	Q7	No Chg.
↓	H	H	H	H	Qn-1	Q7	No Chg.
↑	H	X	X	No Chg.	No Chg.	No Chg.	Qn

Z=High Impedance
X=Don't Care

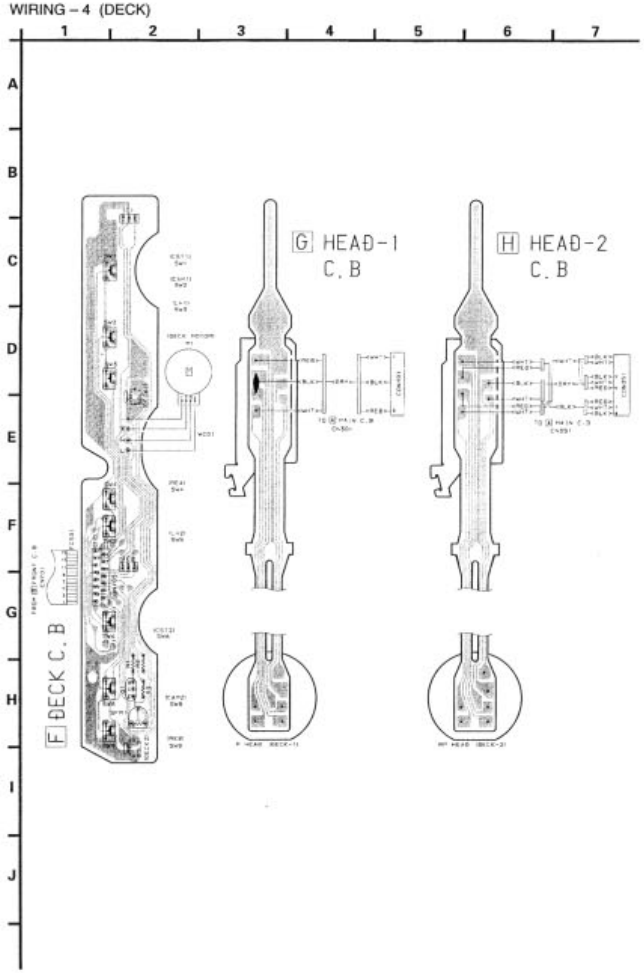
IC, NJM2152M



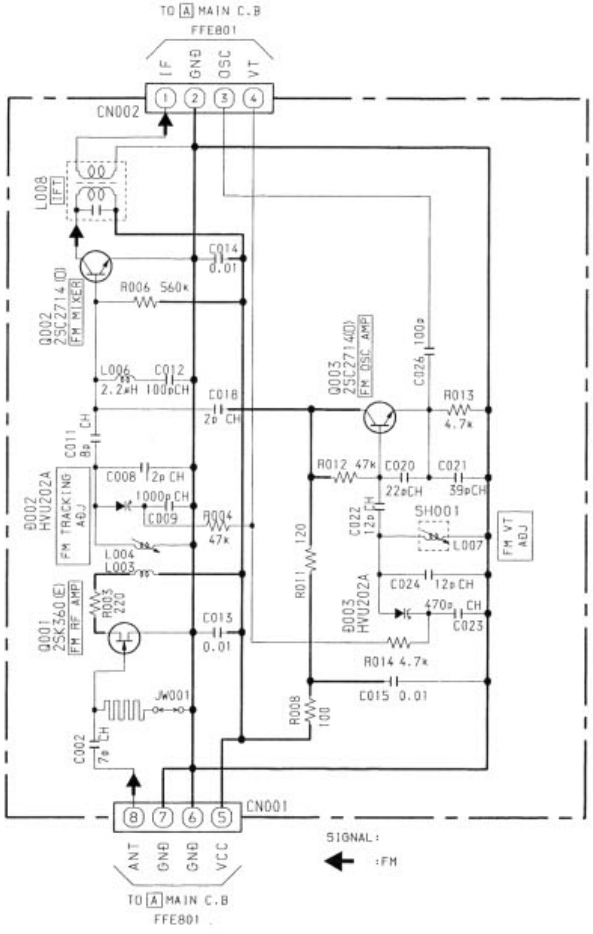
WIRING – 3 (PT)



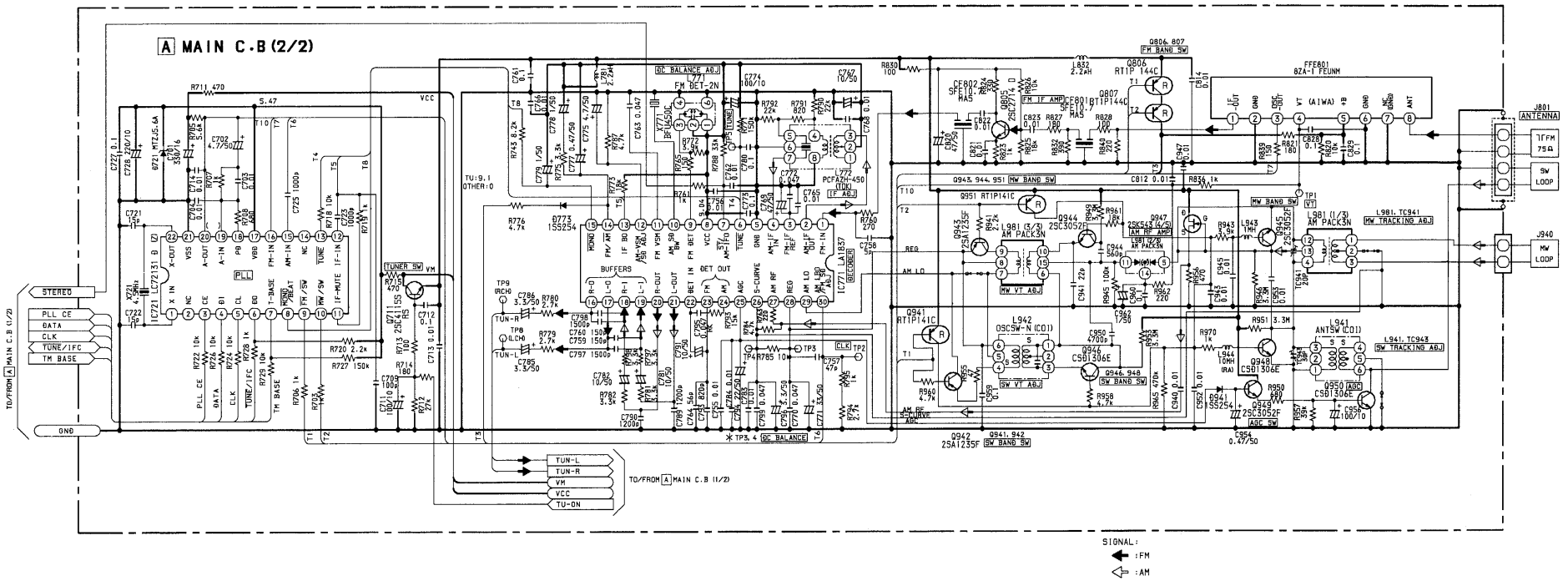
WIRING – 4 (DECK)



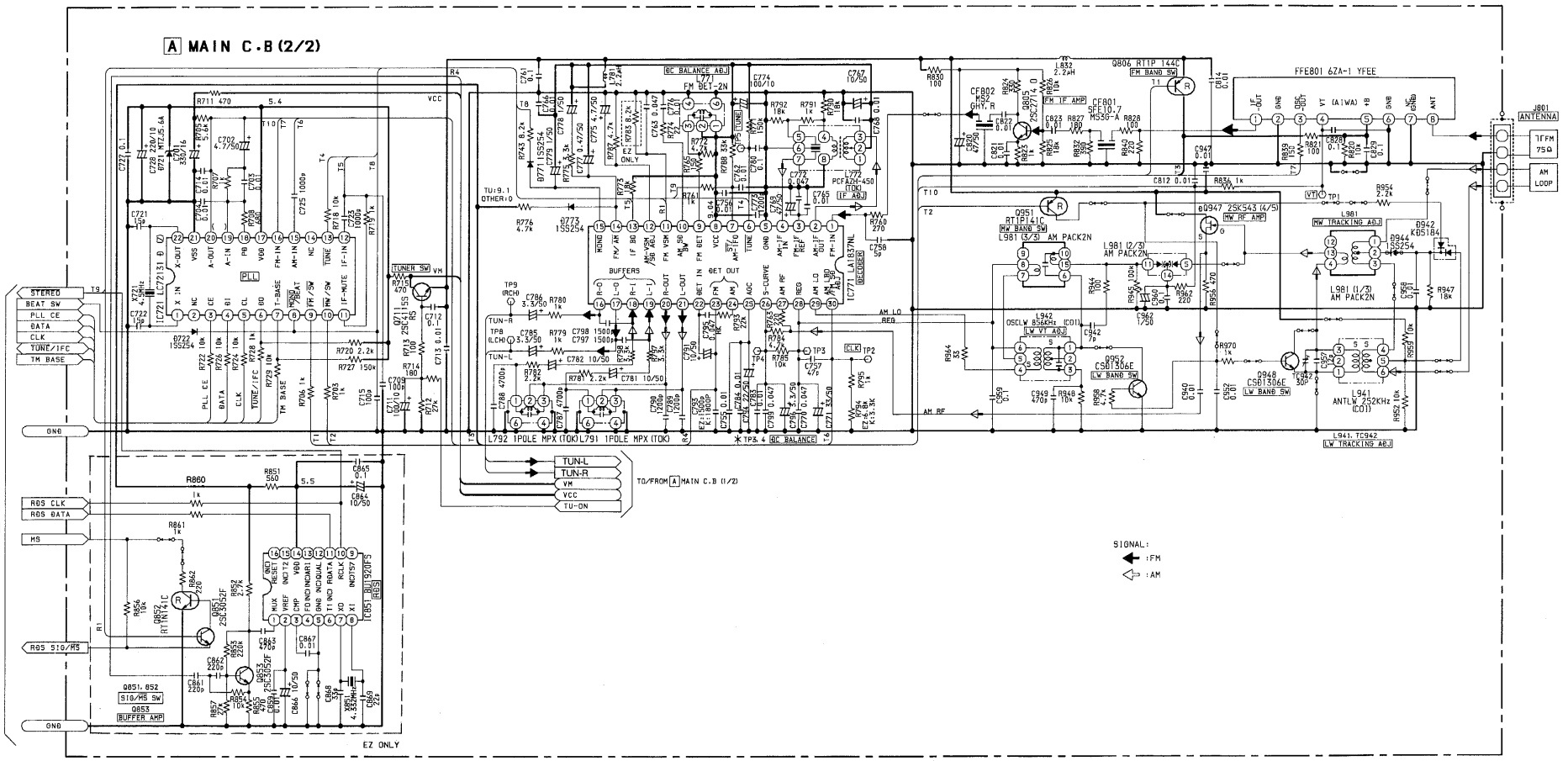
SCHEMATIC DIAGRAM – 4 (HE, HR : TUNER FRONT END)



SCHEMATIC DIAGRAM – 5 (HE, HR : MAIN 2 / 2)

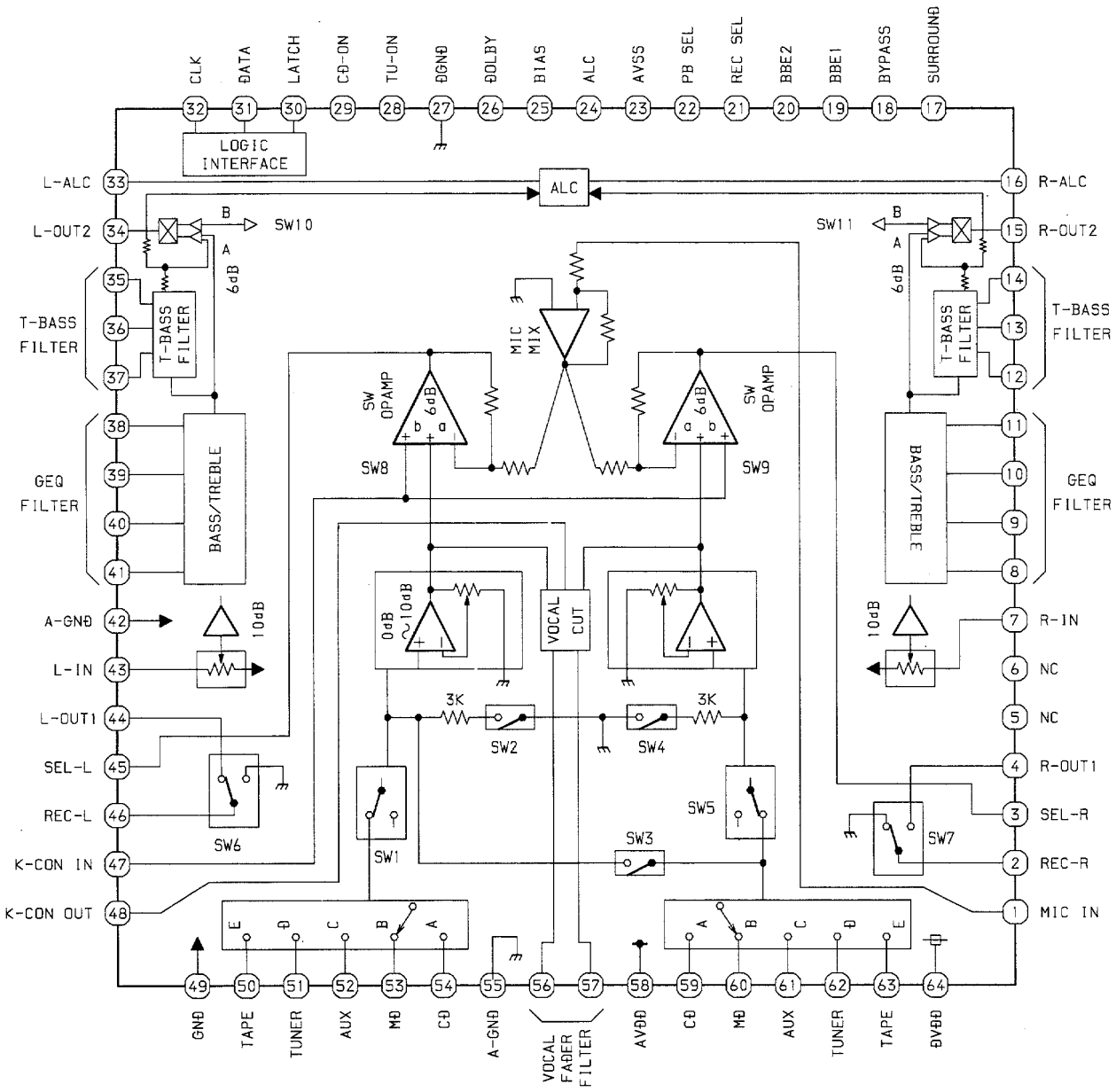


SCHEMATIC DIAGRAM – 6 (EZ, K : MAIN 2 / 2)

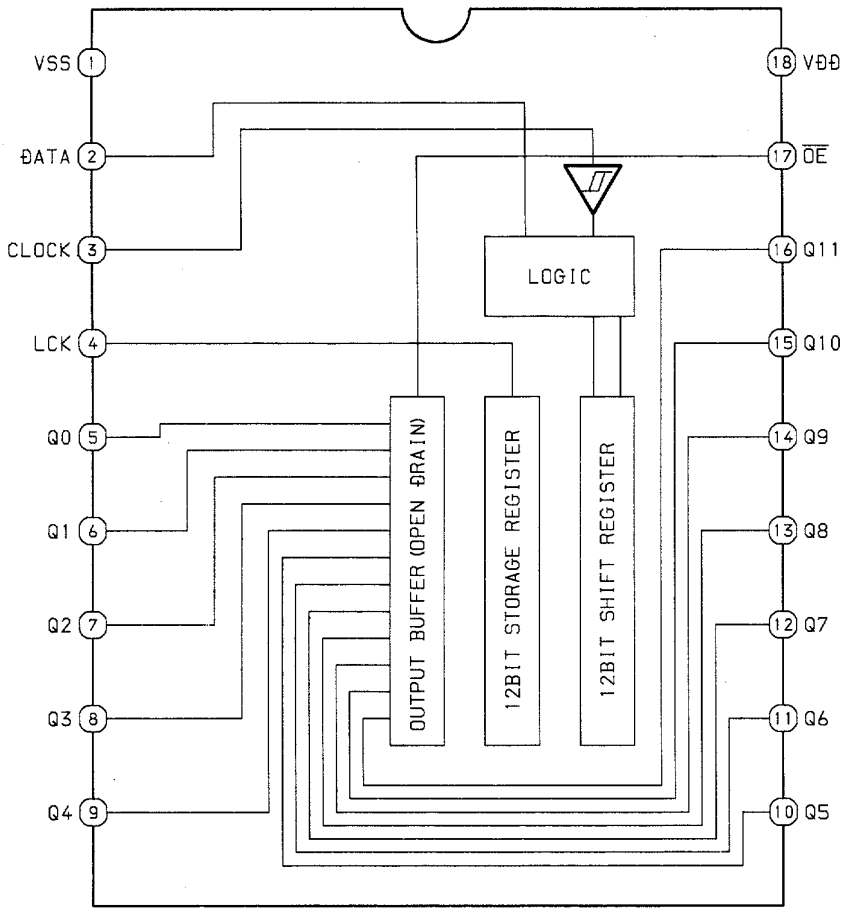


IC BLOCK DIAGRAM – 3

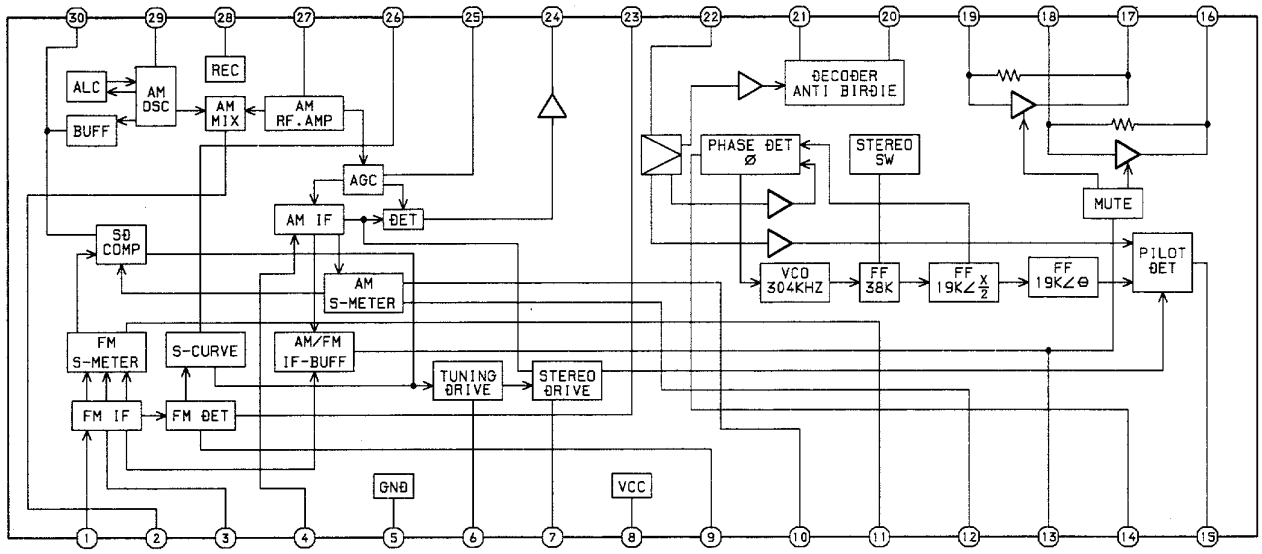
IC, M62445FP-601



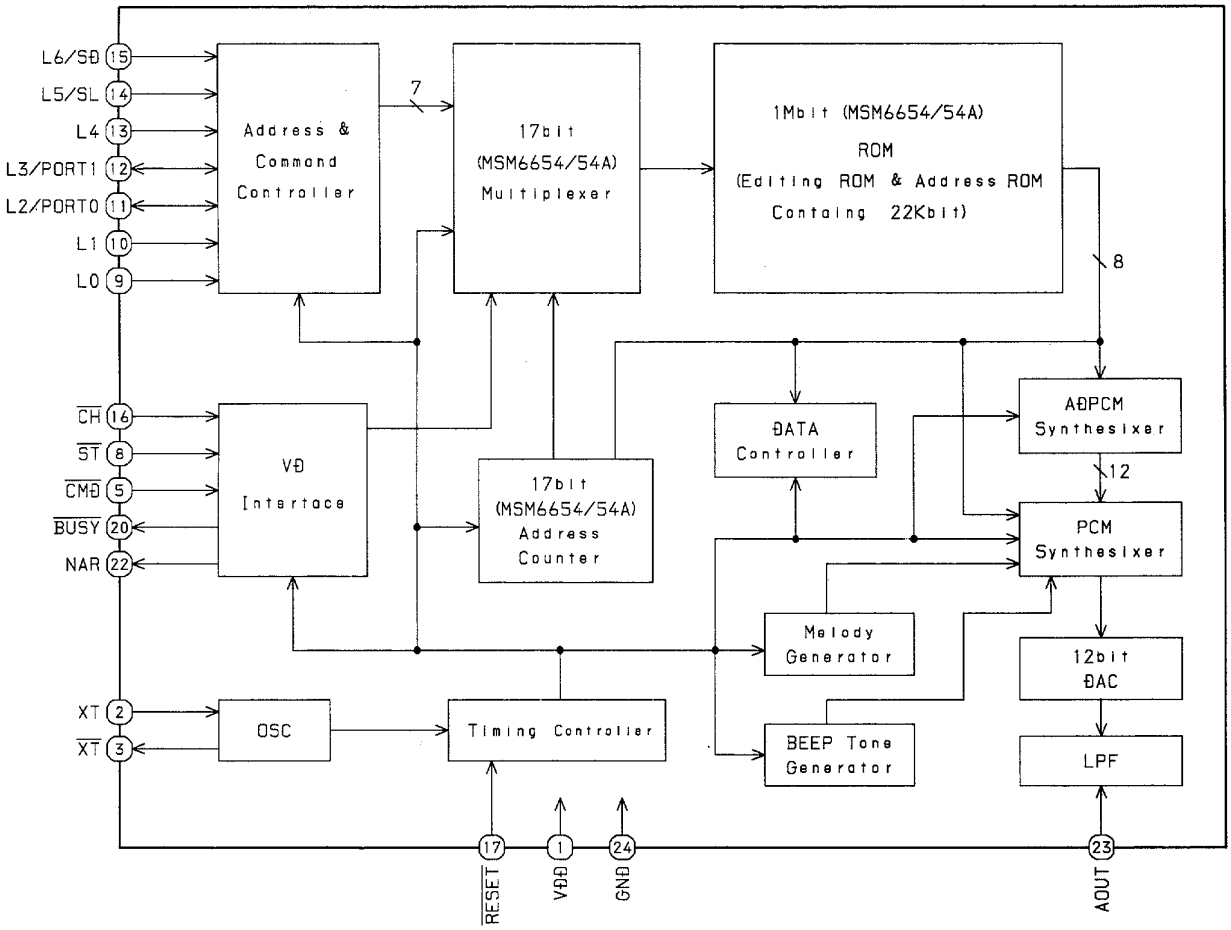
IC, BU2092F



IC, LA1837



IC, MSM6654A-521GS-KRI



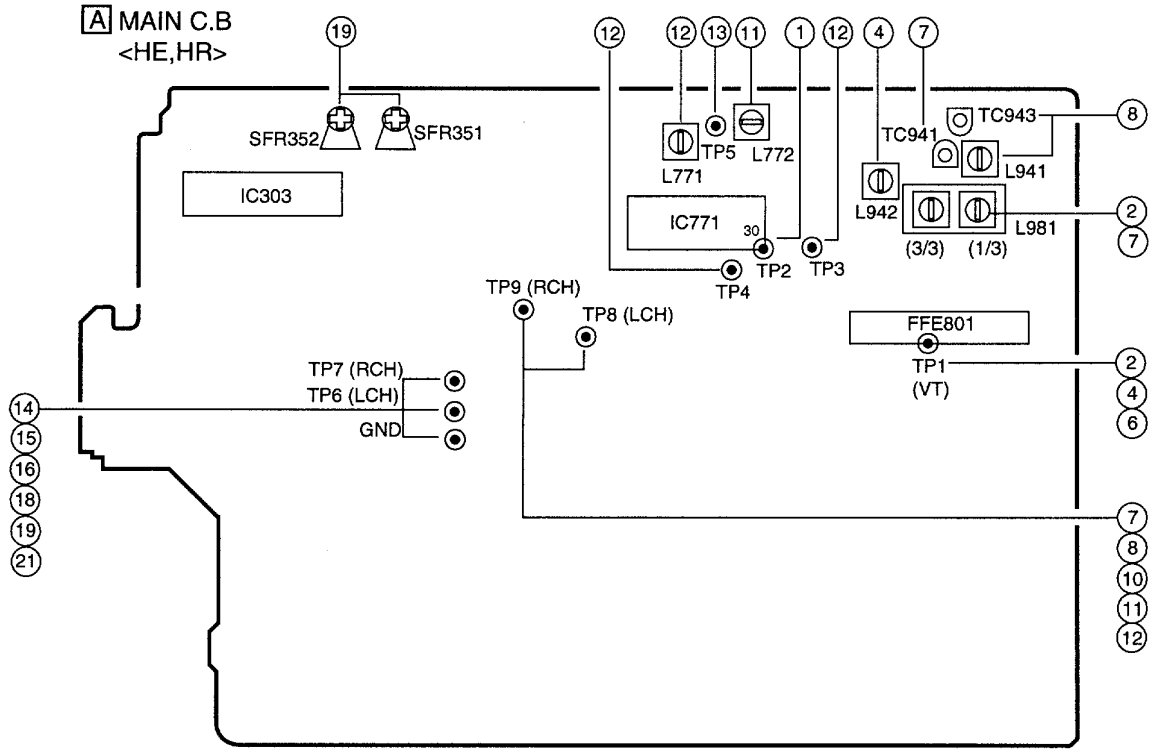
IC DESCRIPTION

IC, LC866560W-5G73

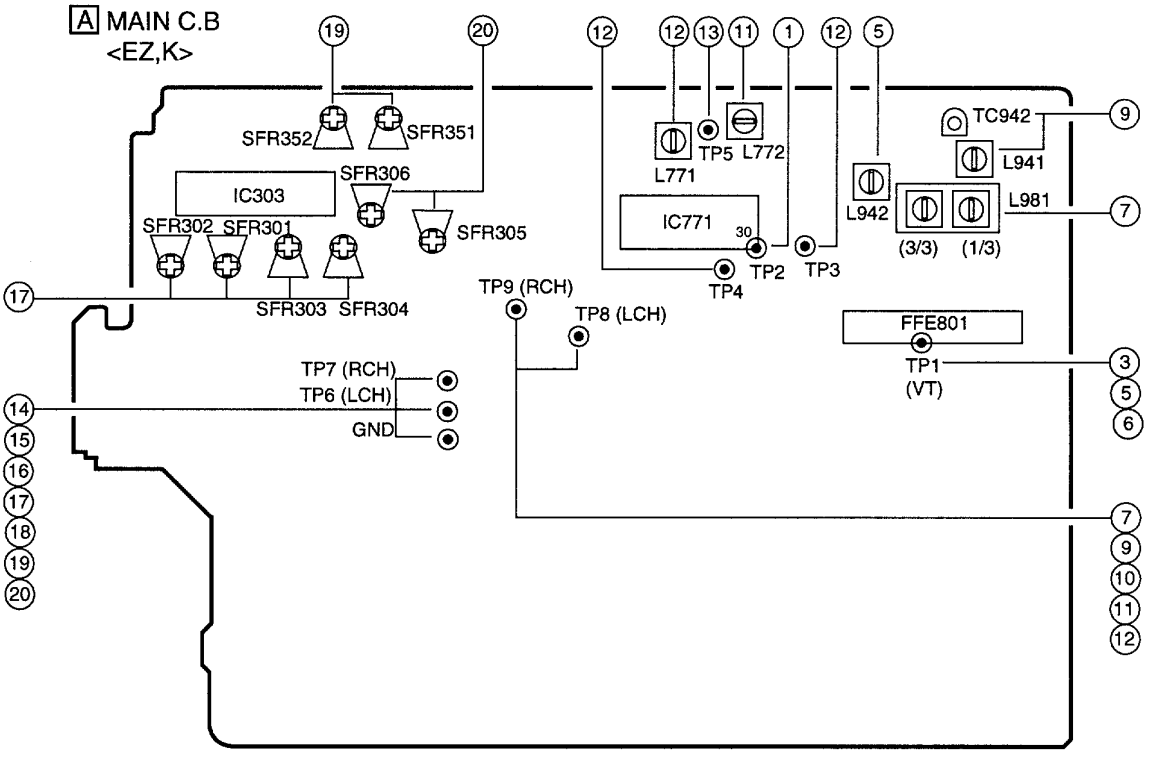
Pin No.	Pin Name	I/O	Description
1	CLK	O	CLOCK output for MAIN,FRONT PWB.
2	DATA	O	DATA output for MAIN, FRONT PWB.
3	STB	O	Latch strobe output for MAIN PWB.
4	$\overline{\text{O-LED}}$	O	LED $\overline{\text{ON}}$/OFF output.
5	STB (SHIFT)	O	Latch strobe output for FRONT shift register.
6	$\overline{\text{RESET}}$ (GAME)	I	Reset input for Sound IC.
7	STB (GAME)	O	Latch strobe output for Sound IC.
8	I-NAR (GAME)	I	Sound IC NAR input.
9	PLL-CE	O	PLL IC chip enable output.
10	O-DSC	O	Serial data output for PROLOGIC PWB. (Not connected)
11	$\overline{\text{I-MIC}}$	I	Microphone input for AUTO VF display.
12	$\overline{\text{RESET}}$	I	Reset input.
13	$\overline{\text{I-HP-MUTE}}$	I	Headphone input for MUTE by PROLOGIC.
14	I-DISH	I	CD turntable photo sensor A/D converter input.
15	VSS 1	–	GND.
16	CF 1	–	5.76MHz oscillator circuit.
17	CF 2	–	
18	VDD 1	–	Power supply input.
19	$\overline{\text{HOLD}}$	I	Power failure detection input. "H" normal operation. "L" main power cannot be turned on.
20	KEY-1	I	KEY input.(A/D)
21	KEY-2	I	
22	KEY-3	I	
23	I-CD SW	I	CD mechanical switch A/D converter input.
24	I-JOG	I	JOG dial A/D level input.
25	I-TU-SIG/$\overline{\text{MS}}$	I	Tuner signal and deck music sensor signal input.
26	I-SPEANA	I	A/D input for spectrum analyzer display.
27	I-WRQ/RDS-CLK	I	CD WRQ input. TUNER RDS CLOCK input.
28	I-TM-BASE	I	REFERENCE CLOCK input for timer watch.
29	$\overline{\text{I-RMC}}$	I	System remote control signal input.
30~41	G13~G2	O	FL GRID output G2~G13.
42, 43	P36, P35	O	FL SEGMENT output P35, P36.
44	G1	O	FL GRID output G1.
45	P34	O	FL SEGMENT output P34.
46	VDD3	–	Power supply input.
47	SPEANA-A/P33	O	Spectrum analyzer band switching output /FL segment P33 output.
48	SPEANA-B/P32	O	Spectrum analyzer band switching output /FL segment P32 output.
49	SPEANA-C/P31	O	Spectrum analyzer band switching output /FL segment P31 output.
50	P30/$\overline{\text{GAME}}$	I/O	FL segment P30 output / GAME input diode.
51	VP	–	Power supply input for FL display.
52	P29/AM-ST	I /O	FL segment P29 output / AM-ST input diode.
53	P28/LW	I/O	FL segment P28 output / LW input diode.
54	P27/SW	I/O	FL segment P27 output / SW input diode.

Pin No.	Pin Name	I/O	Description
55	P26/FM 1	I/O	FL segment P26 output / FM1 (OIRT) input diode.
56	P25/RDS	I/O	FL segment P25 output / RDS input diode.
57	P24/R+1	I/O	FL segment P24 output / RVS+1 way input diode.
58	P23/$\overline{\text{DSP}}$	I/O	FL segment P23 output / $\overline{\text{DSP}}$ input diode.
59	P22/D-SURR	I/O	FL segment P22 output / SURR input diode.
60	P21/K-CON	I/O	FL segment P21 output / K-CON input diode.
61	P20/$\overline{\text{DOLBY}}$	I/O	FL segment P20 output / DOLBY input diode.
62	P19/5.1CH	I/O	FL segment P19 output / 5.1CH input diode.
63	P18/AM10K	I/O	FL segment P18 output / AM 10kHz input diode.
64	P17/$\overline{\text{CST 2}}$	I/O	FL segment P17 output / DECK2 cassette detect switch data input.
65	P16/$\overline{\text{REB}}$	I/O	FL segment P16 output / DECK2 side-B record OK switch data input.
66	P15/$\overline{\text{CAM 2}}$	I/O	FL segment P15 output / DECK2 CAM switch data input.
67	P14/AUTO 1	I/O	FL segment P14 output / DECK1 AUTO stop signal input.
68	P13/AUTO 2	I/O	FL segment P13 output / DECK2 AUTO stop signal input.
69	P12/$\overline{\text{CAM 1}}$	I/O	FL segment P12 output / DECK1 CAM switch data input.
70	P11/$\overline{\text{CST 1}}$	I/O	FL segment P11 output / DECK1 cassette detect switch data input.
71	P10/$\overline{\text{REA}}$	I/O	FL segment P10 output / DECK2 side A record OK switch data input.
72	VDD 4	–	Power supply input.
73 ~ 81	P9 ~ P1	O	FL segment P1 ~ P9 output.
82	O-KSCAN	O	Switch SCAN timing output.
83	$\overline{\text{TRAY-CLS}}$	O	CD TRAY CLOSE data output.
84	$\overline{\text{TRAY-OPEN}}$	O	CD TRAY OPEN data output.
85	DISH-FWD	O	CD turntable forward rotation output.
86	DISH-RVS	O	CD turntable reverse rotation output.
87	O-DATA	O	CD data output.
88	O-CDCLK	O	CD clock output.
89	VSS2	-	GND.
90	VDD2	-	Power supply input.
91	$\overline{\text{O-POWER}}$	O	System power supply $\overline{\text{ON}}$/OFF output.
92	O-MUTE	O	System mute ON/$\overline{\text{OFF}}$ output.
93	$\overline{\text{SOL 1}}$	O	DECK 1 solenoid output.
94	$\overline{\text{SOL 2}}$	O	DECK 2 solenoid output.
95	O-MOTOR	O	DECK MOTOR ON/$\overline{\text{OFF}}$ output.
96	I-IFC/$\overline{\text{STEREO}}$/SUBQ	I	Tune IF count serial data input /CD SUBQ data input.
97	I-$\overline{\text{STEREO}}$/ DRF(SQCLK)	I/O	Tuner stereo detected input / CD SQ CLOCK output.
98	I-RDS-DATA/ O-CDCE	I/O	RDS data input / CD chip enable output.
99	RT-A	I	Rotary encoder A input.
100	RT-B	I	Rotary encoder B input.

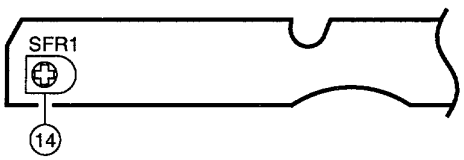
A MAIN C.B
<HE,HR>



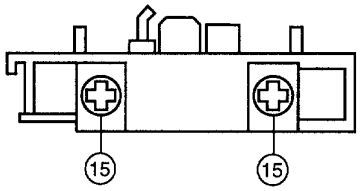
A MAIN C.B
<EZ,K>



F DECK C.B



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



< TUNER SECTION >

1. Clock Frequency Check
   Settings : • Test point : TP2
   Method : Set to AM 1602kHz and check that the test point is 2052kHz ± 45Hz.

2. MW VT Adjustment <HE,HR>
   Settings : • Test point : TP1 (VT)
   • Adjustment location : L981 (3/3)
   Method : Set to MW 1710kHz and adjust L981 (3/3) so that the test point becomes 7.5V ± 0.05V. Then check that the test point is more than 0.3V (530kHz).

3. MW VT Check <EZ,K>
   Settings : • Test point : TP1 (VT)
   Method : Set to MW 1602kHz and check that the test point is less than 8.0V and more than 0.6V (531kHz).

4. SW VT Adjustment <HE,HR>
   Settings : • Test point : TP1 (VT)
   • Adjustment location : L942
   Method : Set to SW 17.9MHz and adjust L942 so that the test point becomes 6.0V ± 0.05V. Then check that the test point is more than 0.3V (5.9MHz).

5. LW VT Adjustment <EZ,K>
   Settings : • Test point : TP1 (VT)
   • Adjustment location : L942
   Method : Set to LW 144kHz and adjust L942 so that the test point is 1.3V ± 0.05V. Then check that the test point is less then 8.0V (290kHz).

6. FM VT Check
   Settings : • Test point : TP1 (VT)
   Method : Set to FM 87.5MHz, 108.0MHz and check that the test point is more than 0.5V (87.5MHz) and less than 8.0V (108.0MHz).

7a. MW Tracking Adjustment <HE,HR>
   Settings : • Test point : TP8(Lch), TP9(Rch)
   • Adjustment location :
   L981 (1/3) 603kHz
   TC941 ..... 1404kHz
   Method : Set up TC941 to center before adjustment, the level at 603kHz is adjust to maxmum by L981 (1/3). Then the level at 1404kHz is adjust to maximum by TC941.

7b. MW Tracking Adjustment <EZ,K>
   Settings : • Test point : TP8(Lch), TP9(Rch)
   • Adjustment location :
   L981(1/3) 999kHz
   Method : Set to AM 999kHz and adjust L981(1/3)to MAX.

8. SW Tracking Adjustment <HE,HR>
   Settings : • Test point : TP8(Lch), TP9(Rch)
   • Adjustment location :
   L941 ..... 5.9MHz
   TC943 ..... 17.9MHz
   Method : Set up TC943 to center before adjustment. The level at 5.9MHz is adjust to maximum by L941. Then the level at 17.9MHz is adjust to maximum by TC943.

9. LW Tracking Adjustment <EZ,K>
   Settings : • Test point : TP8(Lch), TP9(Rch)
   • Adjustment location :
   L941 ..... 144kHz
   TC942 ..... 290kHz
   Method : Set up TC942 to center before adjustment. The level at 144kHz is adjust to maximum by L941. Then the level at 290kHz is adjust to maximum by TC942.

10. FM Tracking Check
   Settings : • Test point : TP8(Lch), TP9(Rch)
   Method : Set to FM 98.0MHz and check that the test point is less than 9dB (HE,HR), less than 10dB (EZ,K).

11. AM(MW) IF Adjustment
   Settings : • Test point : TP8(Lch), TP9(Rch)
   • Adjustment location :
   L772 ..... 450kHz

12. DC Balance / Mono Distortion Adjustment
   Settings : • Test point : TP3, TP4 (DC Balance)
   : TP8(Lch), TP9(Rch) (Distortion)
   • Adjustment location : L771
   • Input level : 54dB
   Method : Set to FM 98.0MHz and adjust L771 so that the voltage between TP3 and TP4 becomes 0V ± 0.04V.
   Next, check that the distortion is less than 1.3%.

13. Auto Stop Level Check

   MW
   • Input level : 52dB
   • Test point : TP5
   Method : Check auto stop at MW 999kHz and the level is 52 +10/-15dB.

   FM
   • Input level : 52dB
   • Test point : TP5
   Method : Check auto stop at FM 98.0MHz and the level is 25 dB ± 10 dB.

< DECK SECTION >

14. Tape Speed Adjustment
   Settings : • Test tape : TTA-100
   • Test point : TP6(Lch), TP7(Rch)
   • Adjustment location : SFR1
   Method : Play back the test tape and adjust SFR1 so that the frequency counter reads 3000Hz ± 5Hz.

15. Head Azimuth Adjustment
   Settings : • Test tape : TTA-330
   • Test point : TP6(Lch), TP7(Rch)
   • Adjustment location : Head azimuth adjustment screw
   Method : Play back (FWD) the 8kHz signal of the test tape and adjust screw so that the output becomes maximum.
   Next, perform on REV PLAY mode.

16. PB Frequency Response Check
   Settings : • Test tape : TTA-330
   • Test point :TP6(Lch), TP7(Rch)
   Method : Play back the 315Hz and 8kHz signals of the test tape and check that the output ratio of the 8kHz signal with respect to that of the 315Hz signal is within 5dB.

17. PB Sensitivity Adjustment <EZ,K>
Settings : • Test tape : TTA-200
• Test point : TP6(Lch), TP7(Rch)
• Adjustment location : SFR301 (DECK 1, Lch)
SFR302 (DECK 1, Rch)
SFR303 (DECK 2, Lch)
SFR304 (DECK 2, Rch)
Method : Play back the test tape and adjust SFRs so that the output level of the test point becomes 120mV ± 10mV.

18. PB Sensitivity Check
Settings : • Test tape : TTA-200
• Test point : TP6(Lch), TP7(Rch)
Method : Play back the test tape and check that the output level of the test point is 120mV± 3dB.

19. REC/PB Frequency Response Adjustment
Settings : • Test tape : TTA-602
• Test point : TP6(Lch), TP7(Rch)
• Input signal : 1kHz / 10kHz (LINE IN)
• Adjustment location : SFR351 (Lch)
SFR352 (Rch)
Method : Apply a 1kHz signal and REC mode. Then adjust OSC attenuator so that the output level at the TP6, TP7 becomes -20VU (-36.5dBV). Record and play back the 1kHz and 10kHz signals and adjust SFRs so that the output of the 10kHz signals becomes 0dB ± 0.5dB with respect to that of the 1kHz signal.

20. REC/PB Sensitivity Adjustment <EZ,K>
Settings : • Test tape : TTA-602
• Test point : TP6(Lch), TP7(Rch)
• Input signal : 1kHz (LINE IN)
• Adjustment location : SFR305 (Lch)
SFR306 (Rch)
Method : Apply a 1kHz signal and REC mode. Then adjust OSC attenuator so that the output level at TP8, TP9 becomes 0VU (-16.5 dBV). Record and play back the 1kHz signals and adjust SFRs so that the output becomes 0dB ± 3.5dB with respect to that of the 1kHz signal.

21. REC/PB Sensitivity Check <HE,HR>
Settings : • Test tape : TTA-602
• Test point : TP6(Lch), TP7(Rch)
• Input signal : 1kHz (LINE IN)
Method : Apply a 1kHz signal and REC mode. Then adjust OSC attenuator so that the output level at TP6, TP7 becomes 0VU(-16.5dBV). Record and play back the 1kHz signals and check that the output is 0 ± 3.5dB.

PRACTICAL SERVICE FIGURE

<TUNER SECTION>

<FM SECTION>

IHF Sensitivity :	Less than 10 / 9 / 9dB (HE,HR)
(THD 3%)	[at 87.5 / 98.0 / 108.0MHz (HE,HR)]
	Less than 11 / 10 / 10dBdB (EZ,K)
	[at 87.5 / 98.0 / 108.0MHz (EZ,K)]
S/N 50dB Quieting sensitivity :	
	Less than 35dB (HE,HR)
	[at 98.0MHz (HE,HR)]
	Less than 38dB (EZ,K)
	[at 98.0MHz (EZ,K)]
Signal to noise ratio :	Mono : More than 72dB
	Stereo : More than 64dB<EZ,K>,
	66dB<HE,HR> [at 98.0MHz]
Distortion :	Mono : Less than 1.2%
	Stereo : Less than 2.0% [at 98.0MHz]
Auto stop level :	25dB ± 10dB [at 98.0MHz]
Stereo separation :	HE,HR : More than 30dB [at 98.0MHz]
	EZ,K : More than 12dB [at 98.0MHz]
Intermediate frequency :	10.7MHz

<MW SECTION>

Sensitivity :	Less than 60dB [at 603kHz]
S/N (20dB)	Less than 58dB [at 999kHz]
	Less than 58dB [at 1404kHz]
Signal to noise ratio :	More than 36dB [at 999kHz]
Distortion :	Less than 1.5% [at 999kHz]
Auto stop level :	52dB +10/-15dB [at 999kHz]
Intermediate frequency :	450kHz

<LW SECTION> (EZ,K)

Sensitivity :	Less than 70dB [at 144kHz]
	Less than 68dB at 198kHz]
	Less than 66dB [at 290kHz]
Intermediate frequency :	450kHz

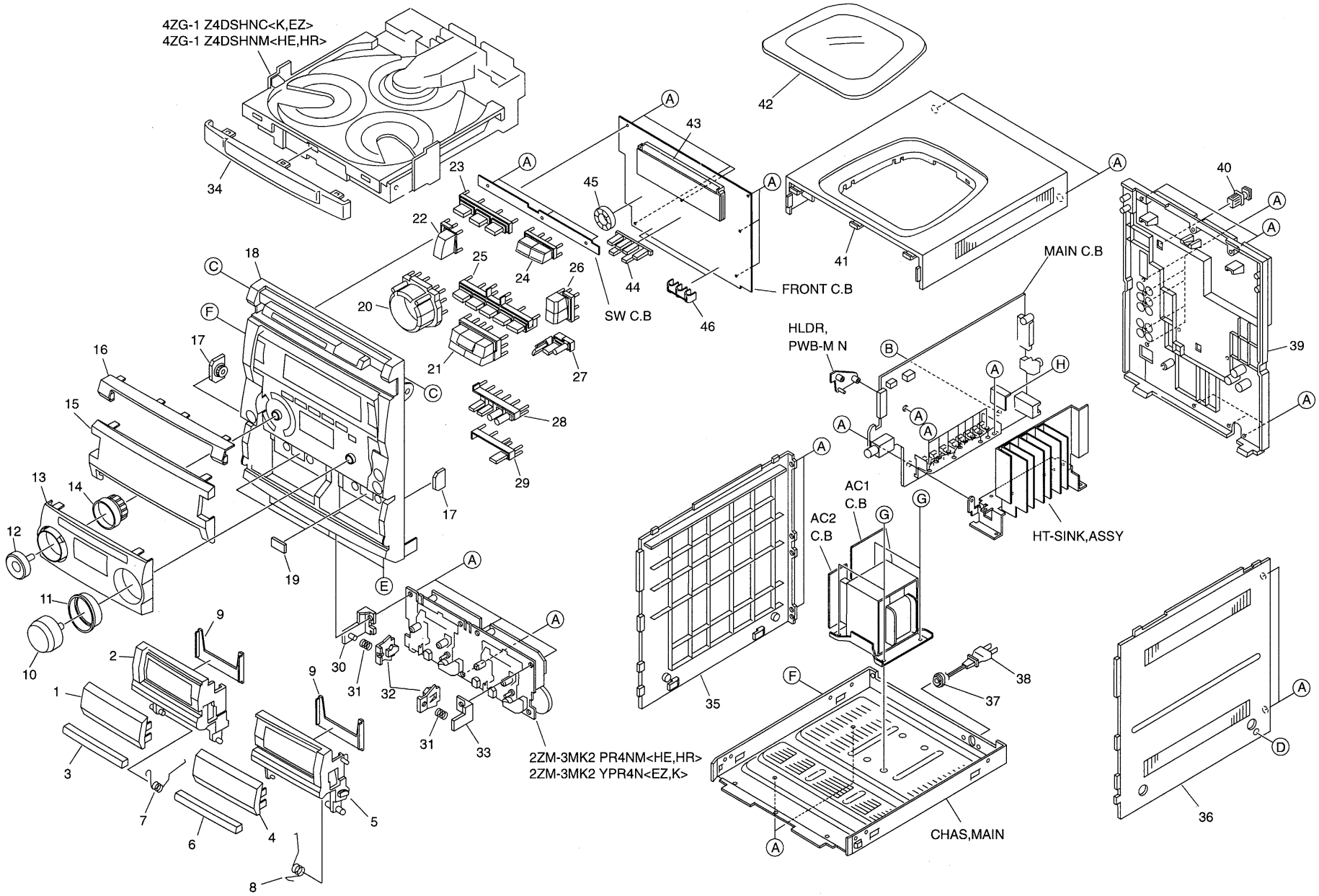
<SW SECTION> (HE,HR)

Sensitivity :	Less than 42dB [at 5.9MHz]
	Less than 38dB [at 12.0 MHz]
	Less than 38dB [at 17.9MHz]
Intermediate frequency :	450kHz

<DECK SECTION>

Tape speed :	3000Hz ± 45Hz
Wow & flutter :	Less than 0.21% (W.R.M.S)
Take-up torque :	30 ~ 55g-cm (FWD, REV)
F.F & REW torque :	75 ~ 160g-cm
Back tension :	2 ~ 7g-cm (FWD, REV)
PB output level :	300mV± 3dB (HE,HR),
	300mV± 1dB (EZ,K) (SP OUT 2V)
REC/PB output level :	0 ± 3.0dB (HE,HR), -3 ± 1dB (EZ,K)
	(SP OUT 2V,NORM)
Distortion (REC/PB) :	Less than 2.0% (NORM)
Noise level (PB) :	Less than 2.0mV (NORM, SP OUT 2V)
Noise level (REC/PB) :	Less than 3.0mV (NORM, SP OUT 2V)
Erasing ratio :	More than 60dB (at 125Hz, +10VU)
Test tape :	TTA-602 (NORMAL)

MECHANICAL EXPLODED VIEW 1/1

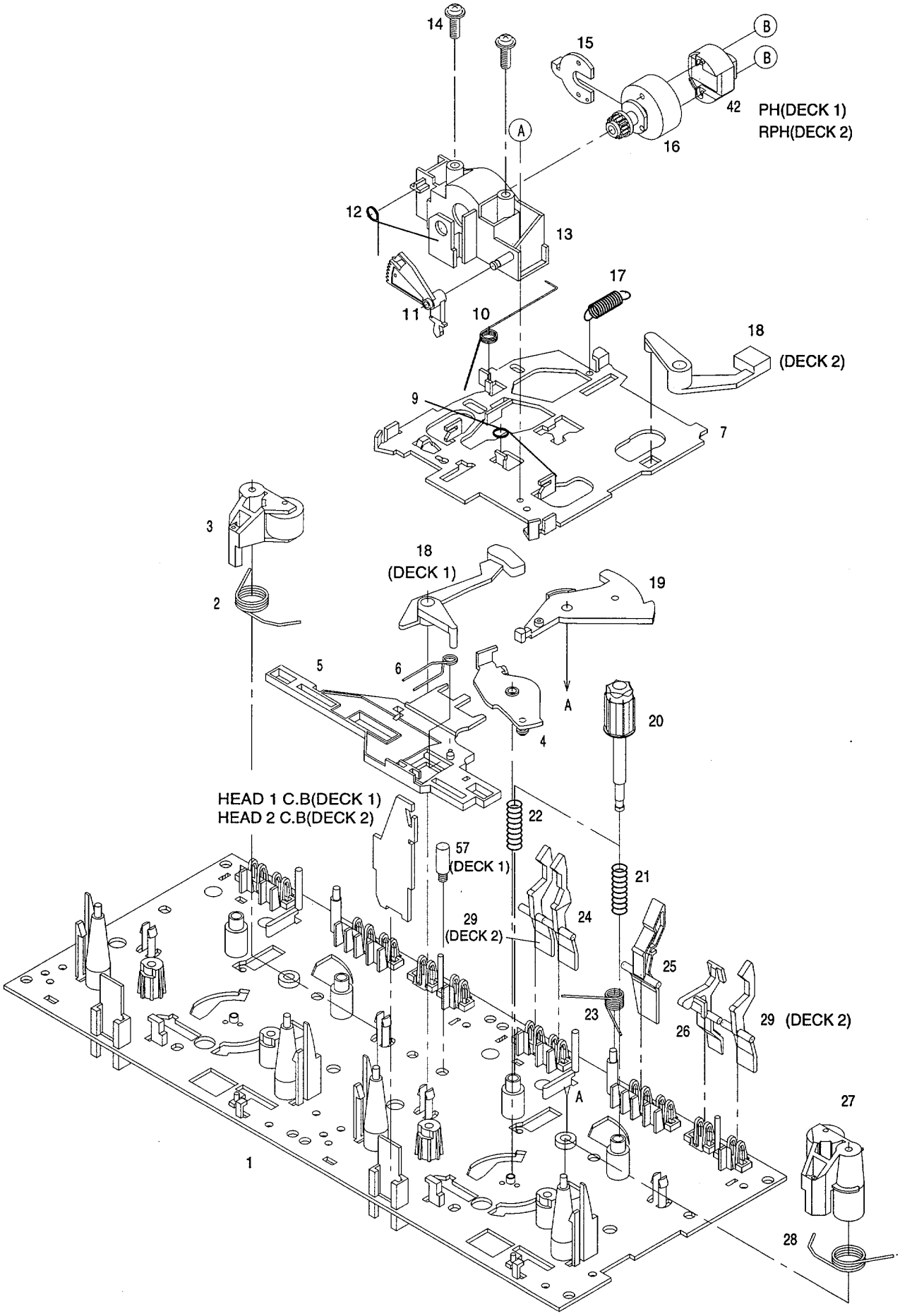


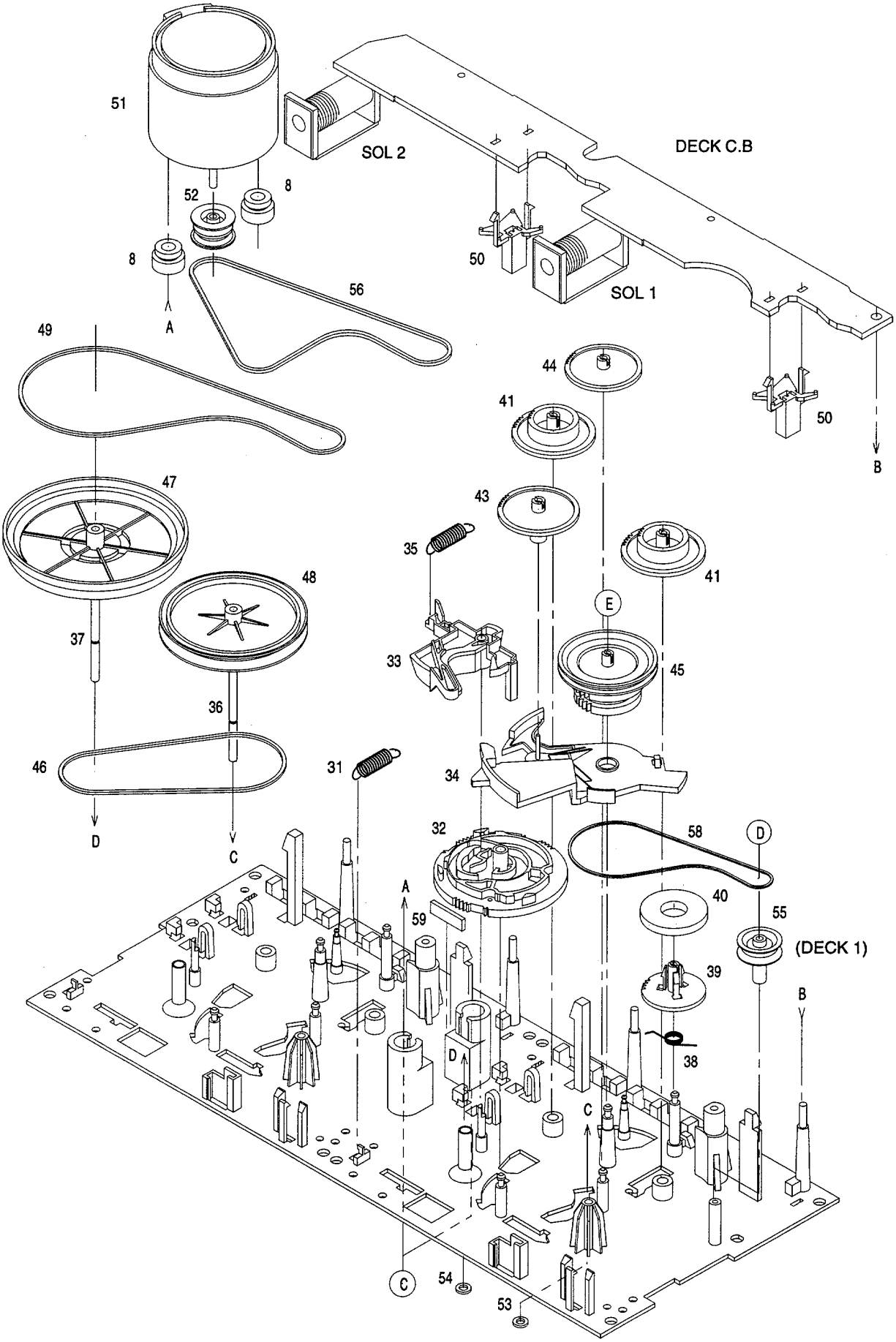
MECHANICAL PARTS LIST 1 / 1

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

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	88-NF6-013-010		WINDOW,CASS 1
2	88-NF6-003-010		BOX,CASS 1
3	88-NF6-008-010		PLATE,CASS 1
4	88-NF6-014-010		WINDOW,CASS 2
5	88-NF6-004-010		BOX,CASS 2
6	88-NF6-009-010		PLATE,CASS 2
7	82-NF5-218-010		SPR-T,EJECT 1 (SIN)
8	82-NF5-219-010		SPR-T,EJECT 2 (SIN)
9	86-NF6-061-010		REFLECTOR,CASS
10	88-NF6-015-110		KNOB,RTRY VOL<706HE,708HR>
10	88-NF6-015-010		KNOB,RTRY VOL<707K,707EZ,708EZ>
11	88-NF6-017-010		RING,VOL
12	88-NF6-016-010		KNOB,RTRY JOG<707K,707EZ,708EZ>
12	88-NF6-016-110		KNOB,RTRY JOG<706HE,708HR>
13	88-NF6-005-010		PANEL,FR<706HE,708HR>
13	88-NF6-068-010		PANEL,FR E<707EZ,708EZ>
13	88-NF6-069-010		PANEL,FR K<707K>
14	88-NF6-050-010		REFLECTOR,JOG
15	88-NF6-020-010		WINDOW,DISPLAY E 707<707EZ>
15	88-NF6-074-010		WINDOW,DSPLY E 708<708EZ>
15	88-NF6-071-010		WINDOW,DSPLY H 706<706HE>
15	88-NF6-073-010		WINDOW,DSPLY H 707<707K>
15	88-NF6-070-010		WINDOW,DSPLY H 708<708HR>
16	88-NF6-007-010		PANEL,CD
17	87-NF8-220-010		DMPR,150
18	88-NF6-066-010		CABI,FR E<707K,707EZ,708EZ>
18	88-NF6-018-110		CABI,FR H<708HR>
18	88-NF6-018-010		CABI,FR H<706HE>
19	81-532-080-010		LABEL, CASS. COMPT
20	88-NF6-029-010		KEY,JOG<707K,707EZ,708EZ>
20	88-NF6-029-110		KEY,JOG<706HE,708HR>
21	88-NF6-041-010		KEY,ASSY OPE
22	88-NF6-026-010		KEY,POWER
23	88-NF6-021-010		KEY,ASSY DISC
24	88-NF6-025-010		KEY,OPEN
25	88-NF6-030-010		KEY,ASSY FUN
26	88-NF6-027-010		KEY,BBE
27	88-NF6-036-010		KEY,MIC
28	88-NF6-037-010		KEY,REC<706HE,708HR>
28	88-NF6-040-010		KEY,REC E<707K,707EZ,708EZ>
29	88-NF6-038-010		KEY,KARAOKE<707K,706HE,708HR>
29	88-NF6-039-010		KEY,RDS<707EZ,708EZ>
30	87-NF4-216-010		HLDR,LOCK 1
31	86-NF9-224-010		SPR-C,LOCK
32	82-NF5-229-010		PLATE,LOCK
33	87-NF4-217-010		HLDR,LOCK 2
34	88-NF6-006-010		PANEL,TRAY
35	87-NB8-005-010		PANEL,LEFT
36	88-NF8-047-010		PANEL,RIGHT 2
37	87-085-185-010		BUSHING, AC CORD (E)
⚠ 38	87-050-034-010		AC CORD ASSY,E<707EZ,708EZ>
⚠ 38	87-A80-023-010		AC CORD,ASSY K 3P W<707K>
⚠ 38	87-050-079-010		AC-CORD ASSY,E<706HE,708HR>
39	88-NF6-061-010		CABI,REAR EZSTNE 707<707EZ>
39	88-NF6-075-010		CABI,REAR EZSTNE 708<708EZ>
39	88-NF6-065-010		CABI,REAR HEJSTNM 706<706HE>
39	88-NF6-078-010		CABI,REAR HRJSTNM 708<708HR>
39	88-NF6-060-010		CABI,REAR KSTNE<707K>
40	84-ZG1-245-210		CAP,OPTICAL
41	87-NF6-021-010		PANEL,TOP
42	86-NF6-007-010		WINDOW,TOP
43	88-NF6-205-010		GUIDE,FL 40-150- 9
44	88-NF6-204-010		GUIDE,LED OPE<707K,707EZ,708EZ>
44	88-NF6-204-110		GUIDE,LED OPE<706HE,708HR>
45	88-NF6-203-010		GUIDE,LED JOG
46	87-NF5-210-010		GUIDE,LED
A	87-067-703-010		TAPPING SCREW, BVT2+3-10
B	87-NF4-224-010		S-SCREW,IT3B+3-8 CU
C	87-721-097-410		QT2+3-12 GLD
D	87-067-641-010		UTT2+3-8(W/O SLOT)BL
E	87-067-688-010		BVTT+3-6
F	87-721-096-410		QT2+3-10 GLD
G	87-078-019-010		S-SCREW,IT+4-6
H	87-067-579-010		TAPPING SCREW, BVT2+3-8

TAPE MECHANISM EXPLODED VIEW 1 / 1




51
SOL 2
DECK C.B
52
8
8
50
SOL 1
56
A
49
44
41
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B
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35
41
48
E
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33
45
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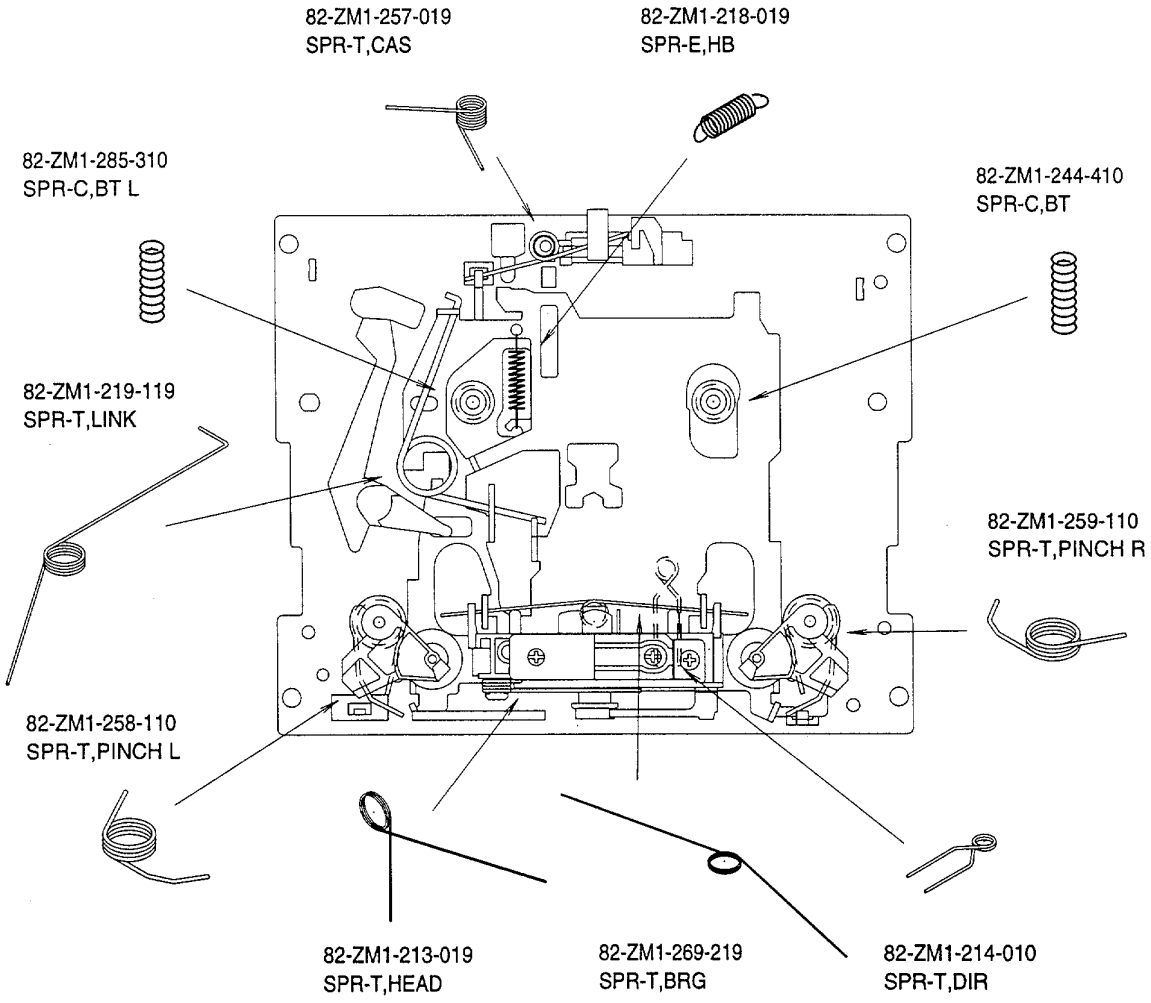
46
31
34
D
C
32
58
D
A
40
55
59
(DECK 1)
39
B
38
D
C
C
54
53

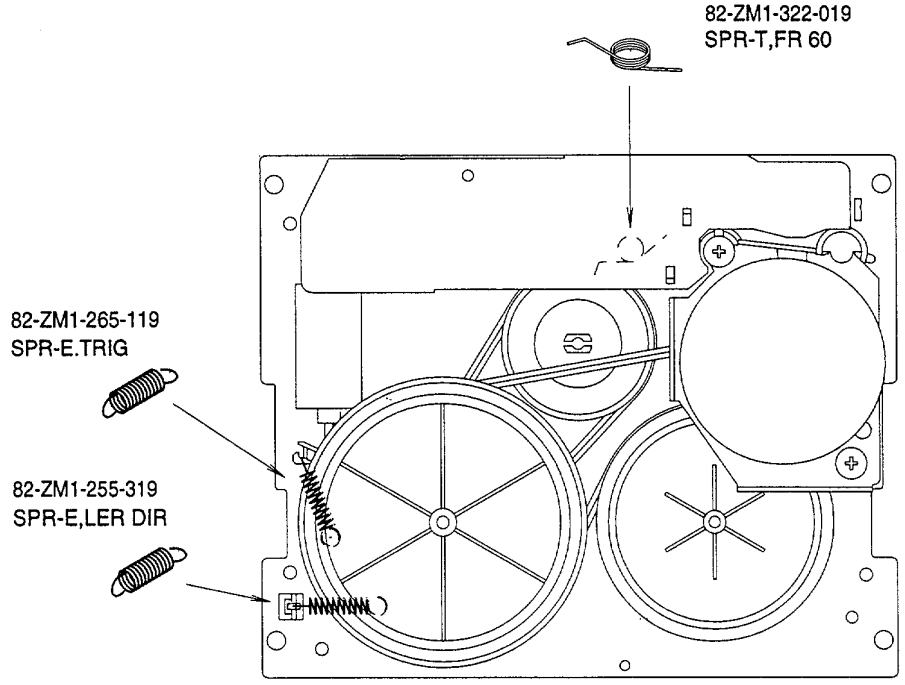
TAPE MECHANISM PARTS LIST 1 / 1

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

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	82-ZM3-301-519		CHAS ASSY,M2
2	82-ZM1-258-110		SPR-T,PINCH L
3	82-ZM1-341-110		LVR ASSY,PINCH L2
4	82-ZM1-333-010		PLATE,LINK 2
5	82-ZM1-266-11K		LVR,DIR
6	82-ZM1-214-010		SPR-T,DIR
7	82-ZM1-206-81K		CHAS,HEAD
8	82-ZM3-307-019		CUSH-G,DIA3.7-8-3.2
9	82-ZM1-269-219		SPR-T,BRG
10	82-ZM1-219-119		SPR-T,LINK
11	82-ZM1-210-119		GEAR,H T
12	82-ZM1-213-019		SPR-T,HEAD
13	82-ZM1-207-619		GUIDE,TAPE
14	86-ZM4-206-010		S-SCREW,AZIMUTH
15	82-ZM1-314-119		PLATE,HEAD
16	82-ZM1-208-119		HLDR,HEAD
17	82-ZM1-218-019		SPR-E,HB
18	82-ZM1-263-110		LVR,EJECT L (DECK 1)
18	82-ZM1-264-010		LVR,EJECT R (DECK 2)
19	82-ZM1-222-21K		LVR,PLAY
20	82-ZM1-217-319		REEL TABLE
21	82-ZM1-244-510		SPR-C,BT
22	82-ZM1-285-310		SPR-C,BT L
23	82-ZM1-257-019		SPR-T,CAS
24	82-ZM1-241-319		LVR,MC
25	82-ZM1-242-019		LVR,CAS
26	82-ZM1-243-019		LVR,STOP
27	82-ZM1-344-110		LVR ASSY,PINCH R2
28	82-ZM1-259-110		SPR-T,PINCH R
29	82-ZM1-240-11K		LVR,REC (DECK 2)
31	82-ZM1-255-319		SPR-E,LVR DIR
32	82-ZM3-305-01K		GEAR,CAM M2
33	82-ZM1-227-21K		LVR,TRIG
34	82-ZM3-306-11K		LVR,FR M2
35	82-ZM1-265-119		SPR-E,TRIG
36	82-ZM1-236-019		CAPSTAN N 2-41.5
37	82-ZM1-239-019		CAPSTAN N 2.2-41.7
38	82-ZM1-322-019		SPR-T,FR60
39	82-ZM1-220-219		GEAR,IDLER
40	82-ZM3-616-019		RING MAGNET 4
41	82-ZM1-216-31K		GEAR,REEL
42	87-A90-319-010		HEAD,PH HADKH2 FPC
42	87-A90-320-010		HEAD,RPH HADKH5 FPC
43	82-ZM1-225-21K		GEAR,FR
44	82-ZM1-226-019		GEAR,REW
45	82-ZM3-333-310		SLIP DISK ASSY 2
46	82-ZM1-338-010		BELT FR4
47	82-ZM1-349-110		FLY-WHL,R W(DECK 2)
47	82-ZM3-338-110		FLY-WHL,R3 W(DECK 1)
48	82-ZM1-348-010		FLY-WHL,L W(DECK 2)
48	82-ZM1-348-010		FLY-WHL,L W(DECK 1)
49	82-ZM3-329-210		BELT,SBU R2
50	82-ZM1-245-210		HLDR,IC
51	87-045-347-019		MOT,SHU2L 70(M1)
52	82-ZM3-221-010		PULLEY,MOT 2M
53	82-ZM1-288-019		SH,1.63-3.2-0.5 SLT
54	80-ZM6-243-019		SH,1.75-3.6-0.5 SLT
55	82-ZM3-335-210		PULLEY,COUPLER M3(DECK 1)
56	82-ZM3-337-010		BELT,SBU MOT 2
57	82-ZM3-339-010		SHAFT,COUPLER N3(DECK 1)
58	86-ZM1-206-010		BELT,MAIN L
59	82-ZM3-340-010		SH,BELT D2
A	85-ZM3-202-010		S-SCREW,TG
B	80-ZM6-207-019		V+1.6-7
C	82-ZM3-318-019		S-SCRW MOTOR M2
D	87-B10-043-010		W-P,0.99-4-0.25 SLT
E	82-ZM3-334-010		PW,2.16-6-0.4

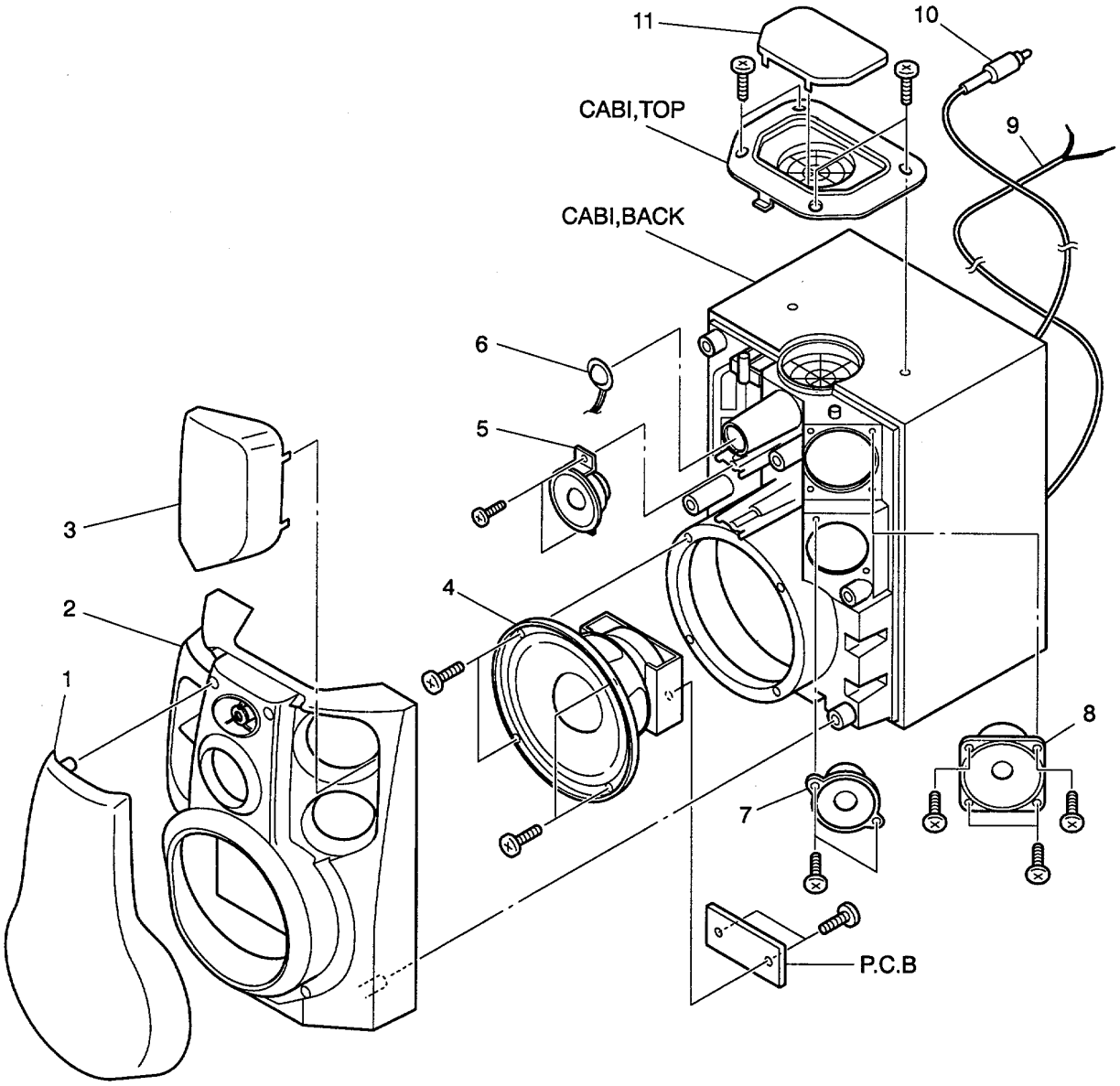
SPRING APPLICATION POSITION





SPEAKER EXPLODED VIEW 1 / 1 <SX-ANS706 (YJSTNL,YSTNL,Y1STNL)>

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.



SX-ANS706 (YJSTNL,YSTNL,Y1STNL) SPEAKER PARTS LIST

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

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	88-NS2-014-010		GRILLE,FRAME ASSY
2	88-NS2-002-010		PANEL,FR L
2	88-NS2-001-010		PANEL,FR R
3	88-NS2-009-010		PROTECTOR, TW L
3	88-NS2-008-010		PROTECTOR, TW R
4	86-NSA-608-010		SPKR,W 160H<YST>
4	87-NSS-602-010		SPKR,W160<YJST,Y1ST>
5	87-NS4-605-010		SPKR,T 50
6	88-NS2-609-010		SPKR, CERAMIC
7	88-NS2-606-010		SPKR, SU 60
8	86-NS4-604-010		SPKR,M 80
9	87-NS4-611-010		SPKR,CORD
10	85-NS6-611-010		SPEAKER CORD Y/B
11	88-NS2-010-010		PROTECTOR, TOP

SX-NS702 (YJSTNC) SPEAKER PARTS LIST

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

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	86-NSR-604-010		SPKR,T 60
2	87-NSE-602-010		SPKR,W 160
3	87-NSF-610-010		SPKR,CORD
4	88-NSG-001-010		PANEL,FR R
5	88-NSG-002-010		PANEL,FR L
6	88-NSG-004-010		GRILLE,FRAME ASSY
7	88-NSG-610-010		SPKR, CERAMIC ASSY

SX-R285 (YJSTNC) SPEAKER PARTS LIST

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

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	87-YS1-004-010		GRILLE FRAME ASSY
2	81-VSA-009-010		CORD BUSH
3	87-YS6-002-010		SPKR, CORD Y
4	87-YS9-601-010		SPKR, SPKR,100

SX-ANS707 (YJSTNL,YSTNL) SPEAKER PARTS LIST

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

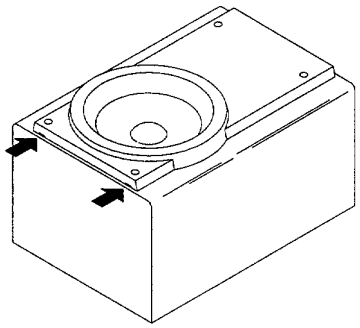
REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	88-NS6-001-010		PANEL,FR R
2	88-NS6-002-010		PANEL,FR L
3	88-NS6-005-010		PANEL,PLATE L
4	88-NS6-006-010		PANEL,PLATA R
5	88-NS6-007-010		PANEL,TOP
6	88-NS6-008-010		CABI,TOP L
7	88-NS6-009-010		CABI,TOP R
8	88-NS6-010-010		PANEL,SP L
9	88-NS6-011-010		PANEL,SP R
10	88-NS6-012-010		GRILLE,FRAME ASSY
11	88-NS6-015-010		GRILLE,TOP ASSY
12	88-NS6-020-010		PROTECTOR,L
13	88-NS6-021-010		PROTECTOR,R
14	87-NS4-611-010		SPKR,CORD
15	87-NS4-610-010		SPKR,CORD Y1B
16	86-NSA-608-010		SPKR,W 160H
17	87-NS4-605-010		SPKR,T 50
18	88-NS6-610-010		SPKR, CERAMIC
19	89-NS6-606-010		SPKR, S 60
20	88-NS6-604-010		SPKR, T 80

SPEAKER DISASSEMBLY INSTRUCTIONS

Type.1

矢印の位置にマイナスドライバーを差し込んで、パネルを外します。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外してください。

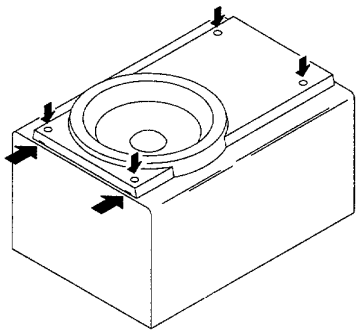
Insert a flat-bladed screwdriver into the position indicated by the arrows and remove the panel. Remove the screws of each speaker unit and then remove the speaker units.



Type.2

グリルフレームを外し、4個のゴムキャプをマイナスドライバーで端の方から持ち上げて外すと中にビスが有りますので、ビスを取り外します。矢印の位置にマイナスドライバーを差し込んで、パネルを外します。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外してください。

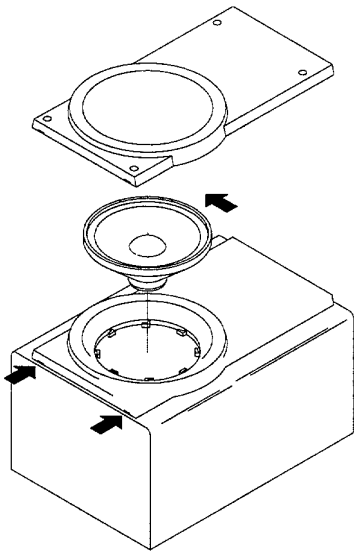
Remove the grill frame and four pieces of rubber caps by pulling out with a flat-bladed screwdriver Remove the screws from hole where installed rubber caps. Insert a flat-bladed screwdriver into the position indicated by the arrows and remove the panel. Remove the screws of each speaker unit and then remove the speaker units.



Type.3

矢印の位置にマイナスドライバーを差し込んで、パネルを外します。各々のスピーカーユニットの凹にマイナスドライバーを差し込んで、反時計方向に回転させスピーカーユニットを外してください。スピーカーユニット交換後は時計方向にクリック音がするまで、回転させて取り付けます。

Insert a flat-bladed screwdriver into the position indicated by the arrows and remove the panel. Turn the speaker unit to counter-clockwise direction while inserting a flat-bladed screwdriver into one of the hollows around speaker unit, and then remove the speaker unit. After replacing the speaker unit, install it turning to clockwise direction until "click" sound comes out.



ACCESSORIES / PACKAGE LIST

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

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	88-NF6-901-210		IB,H(ECA)M<HR,HE>
1	88-NF6-906-010		IB,E(9L)E<EZ>
1	88-NF6-905-010		IB,K(E)E<K>
2	87-006-269-010		AM LOOP ANT (UN)<HR,HE>
2	87-006-225-010		AM LOOP ANT NC2<EZ,K>
3	87-043-115-010		FEEDER-ANT,FM<HR,HE>
3	87-043-106-010		ANT,FM 1007 AWG<EZ,K>
⚠ 4	87-099-789-010		PLUG,CONVERSION IR44<HR,HE>
5	87-NF8-691-010		RC UNIT,RC-7AS06<HE,HR>
5	87-NF6-635-010		RC UNIT,RC-7AS06<EZ,K>
6	87-043-095-010		ANT,WIRE<HE,HR>

REFERENCE NAME LIST

ELECTRICAL SECTION

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

サービス技術ニュース	
番号	連絡内容
G— —	
G— —	
G— —	

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