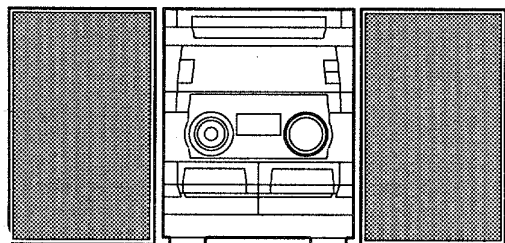


aiwa



NSX-K765 NSX-K770



COMPACT DISC STEREO
CASSETTE RECEIVER

- BASIC TAPE MECHANISM : 2ZM-3MK2 PR4NM
- BASIC CD MECHANISM : 4ZG-1 VOS1DSHM

• TYPE : HR

SYSTEM	CD CASSEIVER	SPEAKER	REMOTE CONTROLLER
NSX-K765	CX-NK765	SX-ANS707	RC-8AS02
NSX-K770	CX-NK770	SX-NS702 SX-R285	

- If requiring information about the CD mechanism, see Service Manual of 4ZG-1, S/M Code No. 09-985-249-80T.

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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 μ V/m
Antenna Loop antenna

<SW Tuner section>

Tuning range 5.900 MHz to 17.900 MHz
Antenna Wire antenna

<Amplifier section>

Power output Rated 112 W + 112 W
 (6 ohms, THD 1%, 1 kHz)
 Reference 140 W + 140 W
 (6 ohms, THD 10%, 1 kHz)
Total harmonic distortion 0.05% (70 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
 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 CrO₂ tape : 50 Hz – 16000 Hz
 Normal tape : 50 Hz – 15000 Hz
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 ($\lambda = 780$ 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 Crystal accuracy
Video signal NTSC/PAL color format
 (selectable)
Video data MPEG 1
Audio data MPEG 1, LAYER 2

<Speaker system> SX-ANS707 (For NSX-K765)

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) 250 x 427 x 294 mm
Weight 5.8 kg

<Speaker system> SX-NS702 (For NSX-K770)

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 120 V/220 - 230 V/240 V AC
 switchable, 50/60 Hz
Power consumption 170 W
Dimensions of main unit 260 x 324 x 348 mm
Weight of main unit 8.2 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.

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.

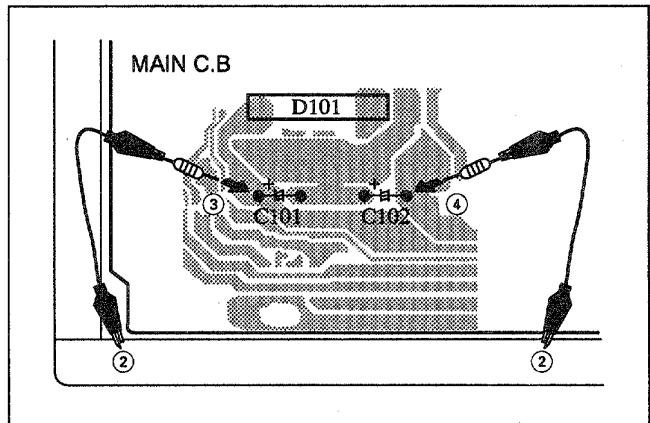


Fig-1

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.

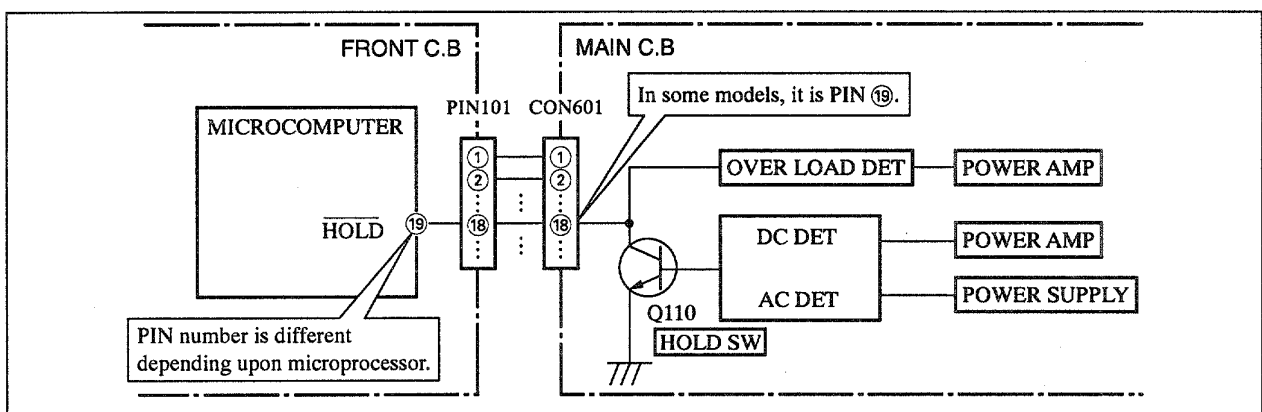


Fig-2-1

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 lead 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.

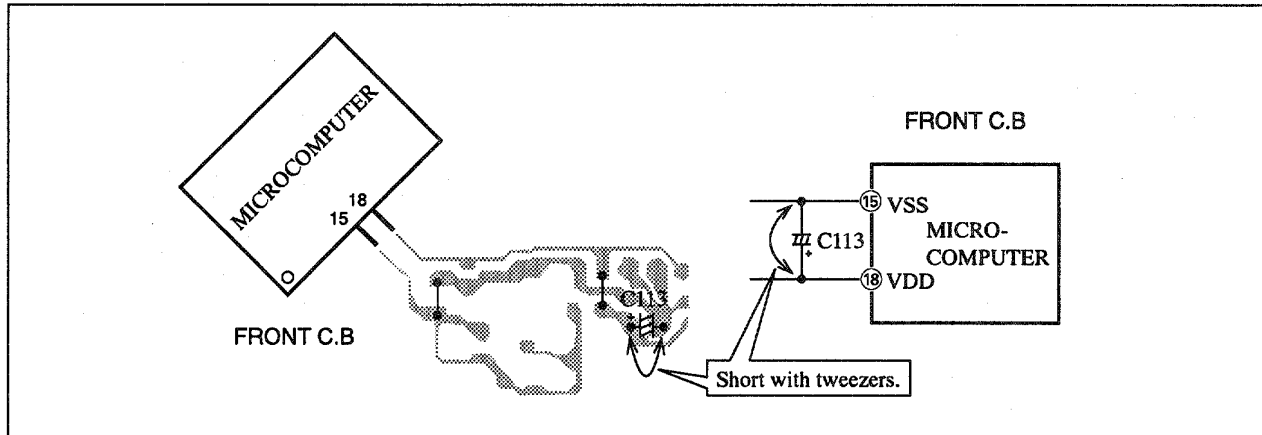


Fig-2-2

- 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 käyttäjän turvallisuusluokan 1 ylitävälle näkymättömälle lasersäteilylle.

WARNING!

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

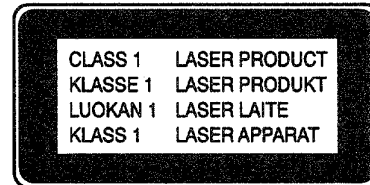
L'utilisation de commandes, réglages ou procédures autres que ceux spécifiés peut entraîner une dangereuse exposition aux radiations.

ADVARSEL!

Usynlig laserstråling ved åbning, når 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.



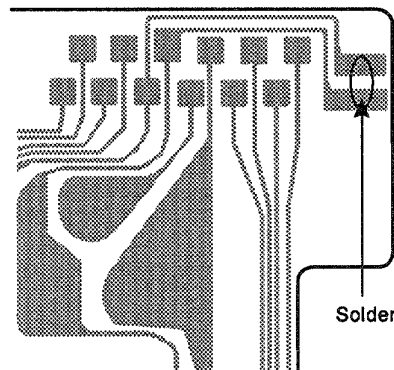
Precaution to replace Optical block

(KSS – 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	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
IC				C101	87-016-657-090		CAP,E 3300-71
	88-NF5-615-040		C-IC,MSM6654A-521GS-KR1	C102	87-016-657-090		CAP,E 3300-71
	88-NH7-630-010		C-IC,LC866560W-5J08	C103	87-016-658-090		CAP,E 4700-35 SMG
	87-070-083-010		IC,GP1U281X	C104	87-016-658-090		CAP,E 4700-35 SMG
	87-A20-783-040		C-IC,BA7762AFS	C105	87-012-368-080		C-CAP,S 0.1-50 F
	87-A20-083-010		IC,BA3835S	C106	87-012-368-080		C-CAP,S 0.1-50 F
	87-A20-804-040		C-IC,NJM2152M	C107	87-012-368-080		C-CAP,S 0.1-50 F
	87-017-915-080		IC,BU4094BCF	C108	87-012-368-080		C-CAP,S 0.1-50 F
	87-A20-613-040		C-IC,BU9262AFS	C109	87-010-196-080		CHIP CAPACITOR,0.1-25
	87-A21-011-040		C-IC,M62445FP-600D	C110	87-010-196-080		CHIP CAPACITOR,0.1-25
	87-017-888-080		IC,NJM4558MD	C111	87-010-196-080		CHIP CAPACITOR,0.1-25
	86-NF7-655-010		IC,LC72131D(Z)	C112	87-010-196-080		CHIP CAPACITOR,0.1-25
	87-020-454-010		IC,DN6851	C113	87-010-385-080		CAP, ELECT 220-25V
	87-070-289-040		C-IC,BU2092F	C114	87-010-385-080		CAP,E 220-25V
	87-A20-913-010		IC,1A1837 NL	C115	87-010-385-080		CAP,E 220-25V
	87-A20-561-040		C-IC,M65847AFP	C116	87-010-385-080		CAP, ELECT 220-25V
TRANSISTOR				C117	87-010-430-080		CAP, ELECT 100-63
	87-A30-087-080		C-FET,2SK2158	C118	87-010-263-080		CAP, ELECT 100-10V
	89-213-702-010		TR,2SB1370 (1.8W)	C119	87-010-260-080		CAP, ELECT 47-25V
	87-026-263-080		C-TR,RN1410	C120	87-010-403-080		CAP, ELECT 3.3-50V
	87-A30-071-080		C-TR,RT1N 144C	C121	87-012-140-080		CAP 470P
	87-026-610-080		TR,KTC3198GR	C123	87-010-247-080		CAP, ELECT 100-50V
	87-A30-076-080		C-TR,2SC3052F	C124	87-010-112-080		CAP, ELECT 100-16V
	87-A30-196-080		TR,2SC4115SRS	C125	87-010-235-080		CAP,E 470-16 SME
	87-A30-075-080		C-TR,2SA1235F	C204	87-016-299-080		CAP,E 10-100 SME
	87-026-609-080		TR,KTA1266GR	C205	87-010-805-080		C-CAP,S 1-16
	87-A30-107-070		C-TR,CMBT5401	C206	87-010-805-080		C-CAP,S 1-16
	87-A30-190-080		TR,CC5551	C209	87-010-546-080		CAP, ELECT 0.33-50V
	87-A30-097-010		TR,FN 1016	C210	87-010-546-080		CAP, ELECT 0.33-50V
	87-A30-098-010		TR,FP 1016	C211	87-010-183-080		C-CAP,S 2700P-50 B
	87-A30-106-070		C-TR,CMBT5551	C212	87-010-183-080		C-CAP,S 2700P-50 B
	87-A30-072-080		C-TR,RT1P 144C	C213	87-010-186-080		CAP,CHIP 4700P
	87-A30-074-080		C-TR,RT1P 141C	C214	87-010-186-080		CAP,CHIP 4700P
	87-A30-073-080		C-TR,RT1N 141C	C215	87-010-403-080		CAP, ELECT 3.3-50V
	87-A30-105-080		C-TR,RT1P 441C	C216	87-010-403-080		CAP, ELECT 3.3-50V
	89-112-965-080		TR,2SA1296 (0.75W)	C217	87-A10-899-080		CAP, ELECT 47-25V BP
	89-327-143-080		TR,2SC2714 (0.1W)	C218	87-A10-899-080		CAP, ELECT 47-25V BP
	87-026-463-080		TR,2SA933SRS	C219	87-010-805-080		C-CAP,S 1-16
	87-A30-162-010		FET,2SK2937	C220	87-010-805-080		C-CAP,S 1-16
	87-026-580-080		C-TR,DTA123JK	C223	87-010-197-080		CAP,CHIP 0.01 DM
	87-A30-221-040		C-TR,DTA114WK	C224	87-010-197-080		CAP,CHIP 0.01 DM
	87-A30-086-070		C-TR,CSD1306E	C229	87-A10-812-080		C-CAP,S 220P-200 J CH
	89-505-434-540		C-TR,2SK543-TB(4/5)	C230	87-A10-812-080		C-CAP,S 220P-200 J CH
	87-A30-159-080		C-TR,KTA1298Y	C233	87-010-544-080		CAP, ELECT 0.1-50V
	87-A30-142-080		C-TR,DTA123EKA	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
DIODE				C247	87-010-178-080		C-CAP,S 1000P-50 CH
	87-A40-470-080		DIODE,1SS254	C248	87-010-178-080		C-CAP,S 1000P-50 CH
	87-017-654-060		DIODE,GBU6JL 6131	C280	87-010-188-080		C-CAP,S 6800P-50 B
	87-A40-509-080		ZENER,MTZJ6.8C	C301	87-010-318-080		C-CAP,S 47P-50 CH
	87-070-136-080		ZENER,MTZJ5.1B	C302	87-010-318-080		C-CAP,S 47P-50 CH
	87-070-274-080		DIODE,1N4003 SEM	C303	87-012-157-080		C-CAP,S 330P-50 CH
	87-A40-341-080		ZENER,MTZJ 36 A	C304	87-012-157-080		C-CAP,S 330P-50 CH
	87-A40-004-080		ZENER,MTZJ16A	C305	87-012-145-080		CAP, CHIP S 270P CH
	87-A40-488-080		DIODE,1SS244	C306	87-012-145-080		CAP, CHIP S 270P CH
	87-A40-345-080		ZENER,MTZJ10C	C307	87-010-196-080		CHIP CAPACITOR,0.1-25
	87-A40-002-080		ZENER,MTZJ5.1C	C309	87-010-196-080		CHIP CAPACITOR,0.1-25
	87-A40-438-080		ZENER,MTZJ4.7A	C310	87-010-196-080		CHIP CAPACITOR,0.1-25
	87-A40-234-080		ZENER,MTZJ5.6A	C311	87-010-198-080		CAP, CHIP 0.022
	87-A40-115-060		DIODE,RS603M	C312	87-010-198-080		CAP, CHIP 0.022
	87-017-931-080		ZENER,MTZJ5.6B	C313	87-010-178-080		CHIP CAP 1000P
	87-A40-370-090		DIODE,RK46-P20	C314	87-010-178-080		CHIP CAP 1000P
	87-A40-269-080		C-DIODE,MC2836	C315	87-010-178-080		CHIP CAP 1000P
	87-A40-270-080		C-DIODE,MC2838	C316	87-010-178-080		CHIP CAP 1000P
				C321	87-016-492-080		C-CAP,S 0.33-16 FZ
				C322	87-016-492-080		C-CAP,S 0.33-16 FZ

MAIN C.B

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
C324	87-010-260-080		CAP, ELECT 47-25V	C527	87-010-196-080		CHIP CAPACITOR,0.1-25
C325	87-010-370-080		CAP,E 330-6.3 SME	C601	87-010-180-080		C-CER 1500P
C327	87-010-404-080		CAP, ELECT 4.7-50V	C602	87-010-180-080		C-CER 1500P
C328	87-010-404-080		CAP, ELECT 4.7-50V	C613	87-016-081-080		C-CAP,S 0.1-16 RK
C332	87-010-196-080		CHIP CAPACITOR,0.1-25	C614	87-016-081-080		C-CAP,S 0.1-16 RK
C335	87-010-401-080		CAP, ELECT 1-50V	C619	87-010-185-080		C-CAP,S 3900P-50 B
C336	87-010-401-080		CAP, ELECT 1-50V	C620	87-010-185-080		C-CAP,S 3900P-50 B
C337	87-010-196-080		CHIP CAPACITOR,0.1-25	C621	87-010-401-080		CAP, ELECT 1-50V
C339	87-010-196-080		CHIP CAPACITOR,0.1-25	C622	87-010-401-080		CAP, ELECT 1-50V
C340	87-010-196-080		CHIP CAPACITOR,0.1-25	C625	87-010-405-080		CAP, ELECT 10-50V
C351	87-012-140-080		CAP 470P	C626	87-010-405-080		CAP, ELECT 10-50V
C352	87-012-140-080		CAP 470P	C629	87-010-405-080		CAP, ELECT 10-50V
C354	87-010-175-080		CAP 560P	C630	87-010-213-080		CAP, CHIP 0.015-25 KB GRM
C355	87-012-349-080		C-CAP,S 1000P-50 CH	C631	87-010-992-080		CHIP-CAP,S 0.047-25B
C356	87-010-260-080		CAP, ELECT 47-25V	C632	87-010-263-080		CAP, ELECT 100-10V
C357	87-010-197-080		CAP, CHIP 0.01 DM	C633	87-010-263-080		CAP, ELECT 100-10V
C358	87-010-183-080		C-CAP,S 2700P-50 B	C634	87-010-196-080		CHIP CAPACITOR,0.1-25
C359	87-010-183-080		C-CAP,S 2700P-50 B	C635	87-010-196-080		CHIP CAPACITOR,0.1-25
C360	87-010-183-080		C-CAP,S 2700P-50 B	C636	87-010-194-080		CAP, CHIP 0.047
C370	87-010-196-080		CHIP CAPACITOR,0.1-25	C637	87-010-183-080		C-CAP,S 2700P-50 B
C373	87-016-083-080		C-CAP,S 0.15-16 RK	C641	87-010-196-080		CHIP CAPACITOR,0.1-25
C374	87-016-083-080		C-CAP,S 0.15-16 RK	C651	87-010-197-080		CAP,CHIP 0.01 DM
C378	87-010-196-080		CHIP CAPACITOR,0.1-25	C667	87-010-196-080		CHIP CAPACITOR,0.1-25
C379	87-010-382-080		CAP, ELECT 22-25V	C701	87-010-381-080		CAP, ELECT 330-16V
C380	87-010-382-080		CAP, ELECT 22-25V	C702	87-010-404-080		CAP, ELECT 4.7-50V
C381	87-010-197-080		CAP, CHIP 0.01 DM	C703	87-010-197-080		CAP, CHIP 0.01 DM
C382	87-010-312-080		C-CAP,S 15P-50 CH	C704	87-010-197-080		CAP, CHIP 0.01 DM
C383	87-010-197-080		CAP, CHIP 0.01 DM	C709	87-010-322-080		C-CAP,S 100P-50 CH
C384	87-010-402-080		CAP, ELECT 2.2-50V	C711	87-010-263-080		CAP, ELECT 100-10V
C386	87-010-196-080		CHIP CAPACITOR,0.1-25	C712	87-010-196-080		CHIP CAPACITOR,0.1-25
C387	87-012-145-080		CAP, CHIP S 270P CH	C713	87-010-197-080		CAP, CHIP 0.01 DM
C391	87-010-319-080		C-CAP,S 56P-50 CH	C714	87-010-197-080		CAP, CHIP 0.01 DM
C392	87-010-319-080		C-CAP,S 56P-50 CH	C721	87-010-312-080		C-CAP,S 15P-50 CH
C393	87-010-319-080		C-CAP,S 56P-50 CH	C722	87-010-312-080		C-CAP,S 15P-50 CH
C394	87-010-319-080		C-CAP,S 56P-50 CH	C723	87-010-178-080		CHIP CAP 1000P
C401	87-010-401-080		CAP, ELECT 1-50V	C725	87-010-178-080		CHIP CAP 1000P
C402	87-010-401-080		CAP, ELECT 1-50V	C727	87-010-196-080		CHIP CAPACITOR,0.1-25
C403	87-010-182-080		C-CAP,S 2200P-50 B	C728	87-010-248-080		CAP, ELECT 220-10V
C404	87-010-182-080		C-CAP,S 2200P-50 B	C755	87-010-197-080		CAP, CHIP 0.01 DM
C405	87-010-193-080		CHIP CAPACITOR,0.033	C756	87-010-197-080		CAP, CHIP 0.01 DM
C406	87-010-193-080		CHIP CAPACITOR,0.033	C757	87-010-318-080		C-CAP,S 47P-50 CH
C407	87-010-405-080		CAP, ELECT 10-50V	C758	87-010-149-080		C-CAP,S 5P-50 CH
C408	87-010-405-080		CAP, ELECT 10-50V	C759	87-012-154-080		C-CAP,S 150P-50 CH
C409	87-010-380-080		CAP, ELECT 47-16V	C760	87-012-154-080		C-CAP,S 150P-50 CH
C410	87-010-380-080		CAP, ELECT 47-16V	C761	87-010-196-080		CHIP CAPACITOR,0.1-25
C411	87-010-405-080		CAP, ELECT 10-50V	C762	87-010-197-080		CAP, CHIP 0.01 DM
C412	87-010-112-080		CAP, ELECT 100-16V	C763	87-010-194-080		CAP, CHIP 0.047
C415	87-010-185-080		CHIP CAPACITOR 3900P (K)	C764	87-010-319-080		C-CAP,S 56P-50 CH
C416	87-010-185-080		CHIP CAPACITOR 3900P (K)	C765	87-010-197-080		CAP, CHIP 0.01 DM
C457	87-010-404-080		CAP, ELECT 4.7-50V	C766	87-010-197-080		CAP, CHIP 0.01 DM
C458	87-010-404-080		CAP, ELECT 4.7-50V	C767	87-010-405-080		CAP, ELECT 10-50V
C501	87-A10-060-080		C-CAP,S 0.18-16 KB	C768	87-010-197-080		CAP, CHIP 0.01 DM
C502	87-A10-060-080		C-CAP,S 0.18-16 KB	C769	87-010-408-080		CAP, ELECT 47-50V
C503	87-012-154-080		C-CAP,S 150P-50 CH	C770	87-015-821-080		C-CAP 0.047
C504	87-012-154-080		C-CAP,S 150P-50 CH	C771	87-010-407-080		CAP, ELECT 33-50V
C505	87-012-145-080		CAP,CHIP S 270P CH	C772	87-010-194-080		CAP, CHIP 0.047
C506	87-012-145-080		CAP,CHIP S 270P CH	C773	87-010-196-080		CHIP CAPACITOR,0.1-25
C507	87-010-183-080		C-CAP,S 2700P-50 B	C774	87-010-263-080		CAP, ELECT 100-10V
C509	87-010-196-080		CHIP CAPACITOR,0.1-25	C775	87-010-404-080		CAP, ELECT 4.7-50V
C510	87-010-177-080		C-CAP,S 820P-50 SL	C776	87-010-197-080		CAP, CHIP 0.01 DM
C511	87-010-177-080		C-CAP,S 820P-50 SL	C777	87-010-400-080		CAP, ELECT 0.47-50V
C512	87-010-196-080		CHIP CAPACITOR,0.1-25	C778	87-010-401-080		CAP, ELECT 1-50V
C513	87-010-374-080		CAP, ELECT 47-10V	C779	87-010-401-080		CAP, ELECT 1-50V
C514	87-010-196-080		CHIP CAPACITOR,0.1-25	C780	87-010-196-080		CHIP CAPACITOR,0.1-25
C515	87-010-263-080		CAP, ELECT 100-10V	C781	87-010-405-080		CAP, ELECT 10-50V
C516	87-010-196-080		CHIP CAPACITOR,0.1-25	C782	87-010-405-080		CAP, ELECT 10-50V
C517	87-010-183-080		C-CAP,S 2700P-50 B	C783	87-015-819-080		CAPACITOR,0.01
C521	87-016-460-080		C-CAP,S 0.22-16 B	C784	87-010-197-080		CAP, CHIP 0.01 DM
C522	87-016-460-080		C-CAP,S 0.22-16 B	C785	87-010-403-080		CAP, ELECT 3.3-50V
C523	87-016-460-080		C-CAP,S 0.22-16 B	C786	87-010-403-080		CAP, ELECT 3.3-50V

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
C789	87-010-179-080		CAP,CHIP S B1200P	TC943	87-011-221-080		CAP,TRIMMER 30P
C790	87-010-179-080		CAP,CHIP S B1200P	TH201	87-A90-221-080		C-THMS,100K
C791	87-010-405-080		CAP, ELECT 10-50V	TH202	87-A90-221-080		C-THMS,100K
C793	87-010-177-080		C-CAP,S 820P-50 SL	W102	87-A90-460-010		HLDR,WIRE 2.5-7P
C794	87-010-406-080		CAP, ELECT 22-50	W104	85-NF5-628-010		F-CABLE 7P-2.5
C795	87-010-596-080		CAP, S 0.047-16	WH102	87-A90-460-010		HLDR,WIRE 2.5-7P
C796	87-010-403-080		CAP, ELECT 3.3-50V	X721	87-A70-061-010		VIB,XTAL 4.500MHZ CSA-309
C797	87-010-179-080		C-CAP,S 1200P BK	X771	87-030-354-010		VIB,CER 450.0KHZ BFU C
C798	87-010-179-080		C-CAP,S 1200P BK				
C799	87-010-194-080		CAP, CHIP 0.047				
FRONT C.B							
C812	87-010-197-080		CAP, CHIP 0.01 DM	C101	87-010-075-040		CAP,E 10-16 5L
C814	87-010-197-080		CAP, CHIP 0.01 DM	C102	87-010-196-080		CHIP CAPACITOR,0.1-25
C820	87-010-408-080		CAP, ELECT 47-50V	C103	87-010-196-080		CHIP CAPACITOR,0.1-25
C821	87-010-197-080		CAP, CHIP 0.01 DM	C104	87-010-494-040		CAP,E 1-50 GAS
C822	87-010-197-080		CAP, CHIP 0.01 DM	C105	87-010-178-080		CHIP CAP 1000P
C823	87-010-197-080		CAP, CHIP 0.01 DM	C106	87-A10-189-040		CAP,E 220-10
C828	87-010-196-080		CHIP CAPACITOR,0.1-25	C107	87-010-197-080		CAP, CHIP 0.01 DM
C829	87-010-196-080		CHIP CAPACITOR,0.1-25	C108	87-010-196-080		CHIP CAPACITOR,0.1-25
C940	87-010-197-080		C-CAP,S 0.01 BK	C109	87-010-194-080		CAP, CHIP 0.047
C941	87-010-314-080		C-CAP,S 22P-50V	C110	87-012-157-080		C-CAP,S 330P-50 CH
C943	87-010-197-080		C-CAP,S 0.01 BK	C111	87-010-320-080		CHIP CAP 68P
C944	87-014-051-080		CAP,PP 560P	C112	87-010-312-080		C-CAP,S 15P-50 CH
C945	87-010-197-080		C-CAP,S 0.01 BK	C113	87-010-316-080		C-CAP,S 33P-50 CH
C947	87-010-197-080		C-CAP,S 0.01 BK	C114	87-010-182-080		C-CAP,S 2200P-50 B
C950	87-014-073-080		CAP,PP 4700P-100J	C115	87-010-182-080		C-CAP,S 2200P-50 B
C952	87-010-197-080		C-CAP,S 0.01 BK	C116	87-010-405-040		CAP,E 10-50
C953	87-010-197-080		C-CAP,S 0.01 BK	C117	87-012-157-080		C-CAP,S 330P-50 CH
C954	87-010-400-080		CAP,E 0.47-50V	C118	87-010-196-080		CHIP CAPACITOR,0.1-25
C956	87-010-263-080		CAP,E 100-10V	C119	87-010-196-080		CHIP CAPACITOR,0.1-25
C959	87-010-196-080		CHIP CAPACITOR,0.1-25	C120	87-010-196-080		CHIP CAPACITOR,0.1-25
C960	87-010-196-080		CHIP CAPACITOR,0.1-25	C121	87-010-194-080		CAP, CHIP 0.047
C962	87-010-401-080		CAP,E 1-50V	C122	87-010-194-080		CAP, CHIP 0.047
CF801	87-008-261-010		FILTER, SFE10.7MA5-A	C125	87-010-196-080		CHIP CAPACITOR,0.1-25
CF802	87-008-261-010		FILTER, SFE10.7MA5-A	C151	87-010-197-080		CAP, CHIP 0.01 DM
CN301	87-099-827-010		CONN,3P S2M-3W	C201	87-010-178-080		CHIP CAP 1000P
CN351	87-099-832-010		CONN,8P S2M-8W	C202	87-010-194-080		CAP, CHIP 0.047
CN601	87-099-719-010		CONN,30P TYK-B (X)	C203	87-010-408-040		CAP,E 47-50 SME
CN602	87-A60-131-010		CONN,6P V FE	C204	87-010-404-040		CAP,E 4.7-50 SME
FB601	87-A50-190-080		C-COIL,S BLM21A102S	C205	87-010-404-040		CAP,E 4.7-50 SME
FC602	88-906-241-110		FF-CABLE,6P 1.25	C211	87-012-140-080		C-CAP,S 470P
FFE801	A8-82A-190-030		82A-1 FEUNM	C219	87-012-157-080		C-CAP,S 330P-50 CH
J201	87-A60-488-010		JACK,DIA6.3 BLK ST W/SW KM16AT	C220	87-012-157-080		C-CAP,S 330P-50 CH
J202	87-A60-641-010		JACK,PIN 4P R/W/B JA	C221	87-012-157-080		C-CAP,S 330P-50 CH
J203	87-033-240-010		TERMINAL,SP 4P32SV1-05	C222	87-012-157-080		C-CAP,S 330P-50 CH
J601	87-A60-426-010		JACK,PIN 6P YKC21-3835	C225	87-012-157-080		C-CAP,S 330P-50 CH
J801	87-033-239-010		TERMINAL,HSP-154V-2	C371	87-010-196-080		CHIP CAPACITOR,0.1-25
J940	81-754-629-010		CONNECTOR XH 2P (UL)	C372	87-010-196-080		CHIP CAPACITOR,0.1-25
L201	87-003-383-010		COIL,1UH-S	C373	87-010-196-080		CHIP CAPACITOR,0.1-25
L202	87-003-383-010		COIL,1UH-S	C375	87-010-196-080		CHIP CAPACITOR,0.1-25
L301	87-A50-049-010		COIL,TRAP 85K(COI)	C376	87-012-158-080		C-CAP,S 390P-50 CH
L302	87-A50-049-010		COIL,TRAP 85K(COI)	C377	87-010-196-080		CHIP CAPACITOR,0.1-25
L351	87-007-342-010		COIL,OSC 85K BIAS	C378	87-010-196-080		CHIP CAPACITOR,0.1-25
L771	87-A50-266-010		COIL,FM DET-2N(TOK)	C402	87-010-196-080		CHIP CAPACITOR,0.1-25
L772	87-A90-052-010		FLTR,CFMT-450A (TOK)	C404	87-010-196-080		CHIP CAPACITOR,0.1-25
L781	87-005-847-080		COIL,2.2UH(CECS)	C406	87-010-196-080		CHIP CAPACITOR,0.1-25
L832	86-NFZ-694-080		COIL,2.2UH K CECS	C408	87-010-196-080		CHIP CAPACITOR,0.1-25
L941	87-A50-022-010		COIL,ANT SW (COI)7.96MHZ	C501	87-010-319-080		C-CAP,S 56P-50 CH
L942	87-A50-173-010		COIL,OSC SW-N(COI)	C502	87-010-319-080		C-CAP,S 56P-50 CH
L943	87-005-372-080		COIL,S 1MHM	C503	87-012-393-080		C-CAP,S 0.22-16 R K
L944	87-A50-159-010		COIL,10MH K C2B	C504	87-010-197-080		CAP, CHIP 0.01 DM
L981	88-NF8-625-010		COIL,AM PACK 3N(TOK)	C505	87-010-180-080		C-CER 1500P
R237	87-A00-262-080		RES,M/F 0.15-2W J	C506	87-010-213-080		C-CAP,S 0.015-50 B
R238	87-A00-262-080		RES,M/F 0.15-2W J	C507	87-010-213-080		C-CAP,S 0.015-50 B
R239	87-A00-262-080		RES,M/F 0.15-2W J	C508	87-010-197-080		CAP, CHIP 0.01 DM
R240	87-A00-262-080		RES,M/F 0.15-2W J	C509	87-010-181-080		CAP,CHIP S 1800P
RY101	87-A90-464-010		RELAY, DG12D2-0(M)	C510	87-010-196-080		CHIP CAPACITOR,0.1-25
RY201	87-A90-713-010		RELAY, 12V DQ12D1	C511	87-010-544-040		CAP,E 0.1-50 SME
SFR351	87-A90-433-080		SFR,50K H NVZ6TLTA	C512	87-010-374-040		CAP,E 47-10
SFR352	87-A90-433-080		SFR,50K H NVZ6TLTA	C513	87-010-401-040		CAP,E 1-50 SME
TC941	87-011-220-080		TRIMMER,CAP 20P VTC				

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
C514	87-010-401-040		CAP,E 1-50 SME	LED447	87-070-278-010		LED,SLZ-738A-24-S
C515	87-010-183-080		C-CAP,S 2700P-50 B	LED448	87-070-290-010		LED,SLZ 936-30-S
C516	87-010-183-080		C-CAP,S 2700P-50 B	LED449	87-070-278-010		LED,SLZ-738A-24-S
C518	87-010-196-080		CHIP CAPACITOR,0.1-25	S101	87-A90-894-010		SW,RTRY EC12E12244 ENCODER
C519	87-010-263-040		CAP,E 100-10	S102	87-A90-535-010		SW,RTRY EC16B24304
C523	87-012-141-080		CHIP-CAPACITOR,0.22-16F	S301	87-A90-095-080		SW,TACT EVQ11G04M
C601	87-010-405-040		CAP,E 10-50	S302	87-A90-095-080		SW,TACT EVQ11G04M
C602	87-010-186-080		CAP,CHIP 4700P	S303	87-A90-095-080		SW,TACT EVQ11G04M
C603	87-010-405-040		CAP,E 10-50	S304	87-A90-095-080		SW,TACT EVQ11G04M
C604	87-010-406-040		CAP,E 22-50 SME	S305	87-A90-095-080		SW,TACT EVQ11G04M
C605	87-010-196-080		CHIP CAPACITOR,0.1-25	S306	87-A90-095-080		SW,TACT EVQ11G04M
C606	87-010-322-080		C-CAP,S 100P-50 CH	S307	87-A90-095-080		SW,TACT EVQ11G04M
C607	87-010-321-080		CHIP CAPACITOR,82P(J)	S308	87-A90-095-080		SW,TACT EVQ11G04M
C608	87-010-196-080		CHIP CAPACITOR,0.1-25	S309	87-A90-095-080		SW,TACT EVQ11G04M
C609	87-010-545-040		CAP,E 0.22-50 SME	S310	87-A90-095-080		SW,TACT EVQ11G04M
C610	87-010-322-080		C-CAP,S 100P-50 J CH GRM	S311	87-A90-095-080		SW,TACT EVQ11G04M
C611	87-010-177-080		C-CAP,S 820P-50 SL	S312	87-A90-095-080		SW,TACT EVQ11G04M
C614	87-010-248-040		CAP,E 220-10 SME	S313	87-A90-095-080		SW,TACT EVQ11G04M
C651	87-010-401-040		CAP,E 1-50 SME	S321	87-A90-095-080		SW,TACT EVQ11G04M
C652	87-010-196-080		CHIP CAPACITOR,0.1-25	S322	87-A90-095-080		SW,TACT EVQ11G04M
C653	87-010-196-080		CHIP CAPACITOR,0.1-25	S323	87-A90-095-080		SW,TACT EVQ11G04M
C901	87-010-263-040		CAP,E 100-10	S324	87-A90-095-080		SW,TACT EVQ11G04M
C902	87-010-196-080		CHIP CAPACITOR,0.1-25	S325	87-A90-095-080		SW,TACT EVQ11G04M
C903	87-010-313-080		CAP, CHIP 18P	S326	87-A90-095-080		SW,TACT EVQ11G04M
C904	87-012-155-080		C-CAP 180P-50CH	S327	87-A90-095-080		SW,TACT EVQ11G04M
C905	87-010-400-040		CAP,E 0.47-50	S328	87-A90-095-080		SW,TACT EVQ11G04M
CON101	87-099-720-010		CONN,30P TYK-B(P)	S329	87-A90-095-080		SW,TACT EVQ11G04M
FB601	87-008-372-080		FILTER, EMI BL OIRNI	S330	87-A90-095-080		SW,TACT EVQ11G04M
FC301	85-NF5-617-010		CABLE,FFC 6P-1.25	S333	87-A90-095-080		SW,TACT EVQ11G04M
FC501	88-915-221-110		FF-CABLE,15P-1.25 220MM	S341	87-A90-095-080		SW,TACT EVQ11G04M
FC801	85-NF5-618-010		CABLE,FFC 13P-1.25	S342	87-A90-095-080		SW,TACT EVQ11G04M
FL201	88-NF6-611-010		FL,BJ610GK	S343	87-A90-095-080		SW,TACT EVQ11G04M
J601	87-A60-651-010		JACK,3.5MONO	S344	87-A90-095-080		SW,TACT EVQ11G04M
J602	87-A60-651-010		JACK,3.5MONO	S345	87-A90-095-080		SW,TACT EVQ11G04M
L501	87-005-212-080		COIL,220UH	S346	87-A90-095-080		SW,TACT EVQ11G04M
L901	87-007-340-010		COIL,CLOCK 4.19MHZ	S347	87-A90-095-080		SW,TACT EVQ11G04M
LED401	87-070-197-080		LED,SLP7118C-51-S-T1	S348	87-A90-095-080		SW,TACT EVQ11G04M
LED402	87-070-197-080		LED,SLP7118C-51-S-T1	S349	87-A90-095-080		SW,TACT EVQ11G04M
LED403	87-070-197-080		LED,SLP7118C-51-S-T1	S350	87-A90-095-080		SW,TACT EVQ11G04M
LED404	87-070-197-080		LED,SLP7118C-51-S-T1	X101	87-A70-070-080		VIB,CER 5.76MHZ CRHF
LED405	87-070-197-080		LED,SLP7118C-51-S-T1				
LED406	87-070-197-080		LED,SLP7118C-51-S-T1	SW C.B			
LED407	87-070-197-080		LED,SLP7118C-51-S-T1				
LED408	87-070-197-080		LED,SLP7118C-51-S-T1	LED438	87-070-197-080		LED,SLP7118C-51-S-T1
LED409	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
LED410	87-070-197-080		LED,SLP7118C-51-S-T1	LED442	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	LED443	87-070-197-080		LED,SLP7118C-51-S-T1
LED414	87-070-201-080		LED,SLP9118C-51-S-T1	S351	87-A90-095-080		SW,TACT EVQ11G04M
				S352	87-A90-095-080		SW,TACT EVQ11G04M
LED415	87-070-201-080		LED,SLP9118C-51-S-T1	S353	87-A90-095-080		SW,TACT EVQ11G04M
LED417	87-070-281-080		LED,SLZ736A-25-S-T1	S354	87-A90-095-080		SW,TACT EVQ11G04M
LED419	87-070-281-080		LED,SLZ736A-25-S-T1				
LED421	87-070-281-080		LED,SLZ736A-25-S-T1	S355	87-A90-095-080		SW,TACT EVQ11G04M
LED423	87-070-281-080		LED,SLZ736A-25-S-T1				
LED425	87-070-281-080		LED,SLZ736A-25-S-T1	AC1 C.B			
LED427	87-070-281-080		LED,SLZ736A-25-S-T1				
LED428	87-A40-448-080		LED,SLR-56PTT31 GRN	△ F101	87-035-368-010		FUSE,4A 250V
LED429	87-A40-448-080		LED,SLR-56PTT31 GRN	△ F102	87-035-368-010		FUSE,4A 250V
LED430	87-A40-448-080		LED,SLR-56PTT31 GRN	△ FC1	87-033-147-010		FUSE CLAMP,MT-20
				△ FC2	87-033-147-010		FUSE CLAMP,MT-20
LED431	87-A40-448-080		LED,SLR-56PTT31 GRN	△ FC3	87-033-147-010		FUSE CLAMP,MT-20
LED432	87-A40-448-080		LED,SLR-56PTT31 GRN				
LED433	87-A40-448-080		LED,SLR-56PTT31 GRN	△ FC4	87-033-147-010		FUSE CLAMP,MT-20
LED434	87-A40-448-080		LED,SLR-56PTT31 GRN	△ PT101	88-NF6-622-010		PT,8NF-6 HR
LED435	87-A40-448-080		LED,SLR-56PTT31 GRN	△ SW101	87-A90-165-010		SW,SL 1-2-3 SWS2301
				△ T1	87-A60-317-010		TERMINAL, 1P MSC
LED436	87-A40-448-080		LED,SLR-56PTT31 GRN	△ T2	87-A60-317-010		TERMINAL, 1P MSC
LED437	87-A40-448-080		LED,SLR-56PTT31 GRN				
LED444	87-070-278-010		LED,SLZ-738A-24-S	AC2 C.B			
LED445	87-070-290-010		LED,SLZ 936-30-S				
LED446	87-070-278-010		LED,SLZ-738A-24-S				

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
△ 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		HLD, 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	82-2M1-618-410	SOL ASSY, 27
SOL2	82-2M1-618-410	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	82-2M3-601-019	RBN, CORD, 4P-75

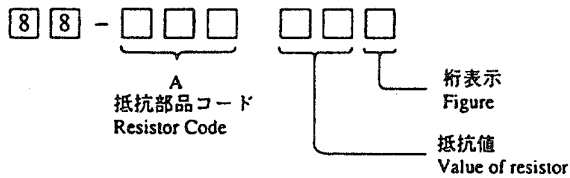
HEAD-1 C.B

HEAD-2 C.B

CON351	87-NF6-616-010	CONN ASSY, 8P-RPB
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○ 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



ECB

KTA1266GR
KTC3198GR



ECB

CC5551



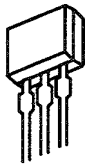
ECB

2SA1296



BCE

2SB1370
FN1016
FP1016



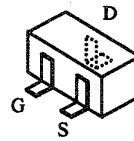
ECB

2SA933
2SC4115

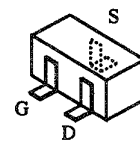


GDS

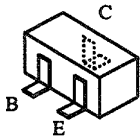
2SK2937



2SK2158



2SK543-TB(4/5)

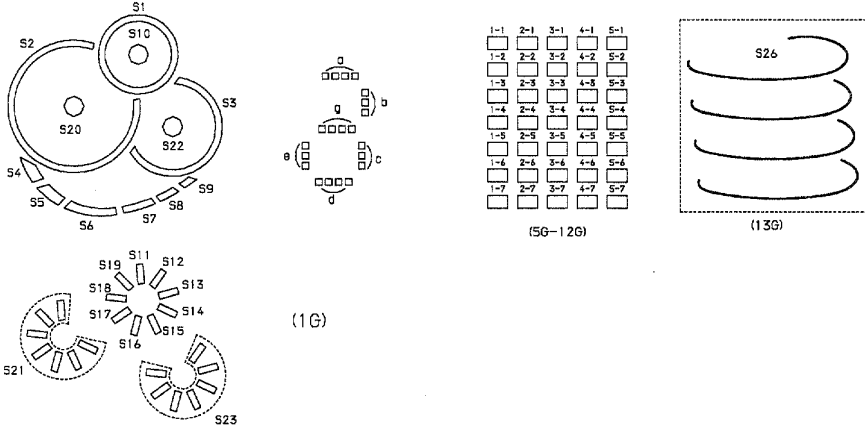
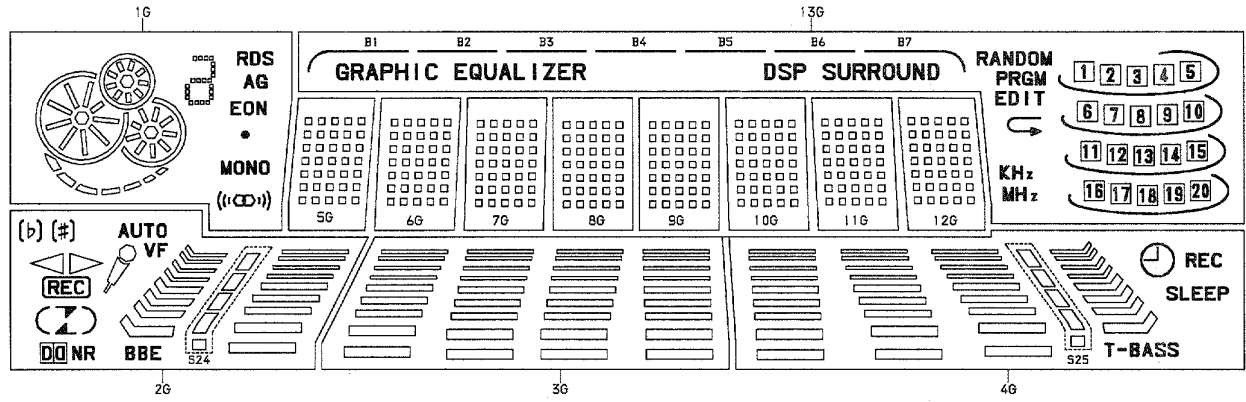


2SA1235F	DTA123JK
2SC2714	KTA1298
2SC3052F	RN1410
CMBT5401	RT1N141C
CMBT5551	RT1N144C
CSD1306E	RT1P141C
DTA114WK	RT1P144C
DTA123EKA	RT1P441C

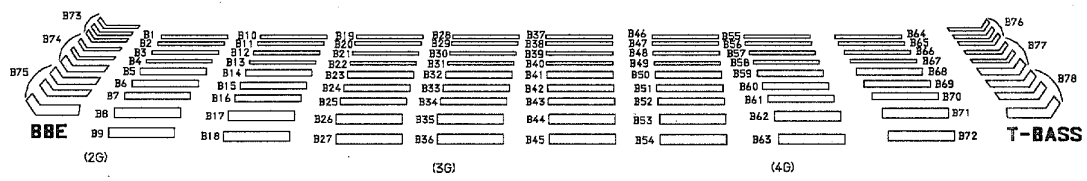
FL GRID ASSIGNMENT & ANODE CONNECTION

FL, BJ610GK













GRID ASSIGNMENT




GRID ASSIGNMENT

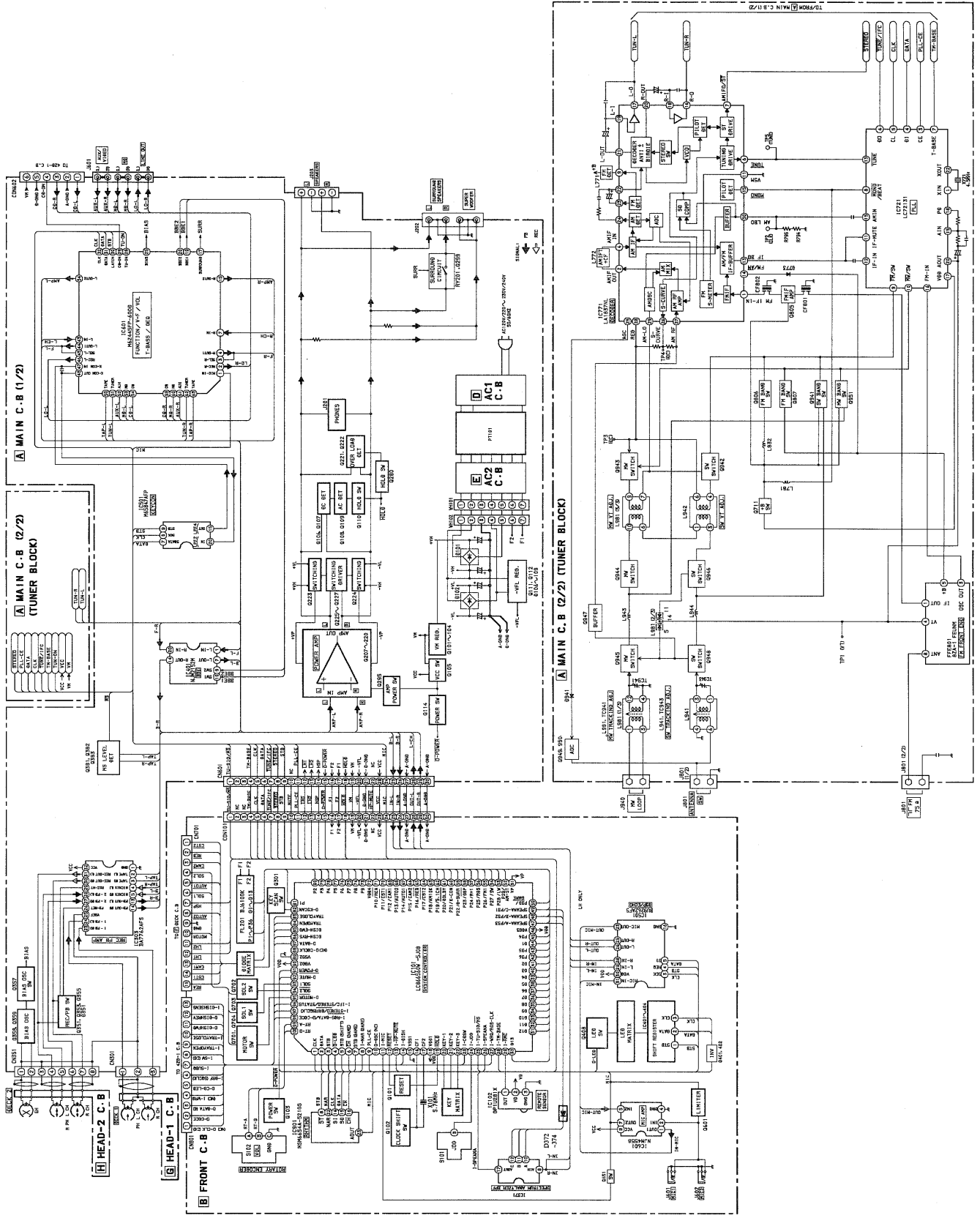


ANODE CONNECTION

	1G	2G	3G	4G	5G-12G	13G
P1	EON	B9	B45	REC	1-1	DSP SURROUND
P2	AG	 NR	B36	B72	2-1	GRAPHIC EQUALIZER
P3		BBE	B27	B63	3-1	B7
P4	MONO	S24	B18	B54	4-1	B6
P5		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	b #	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 (MAIN / FRONT)



WIRING - 1 (MAIN)

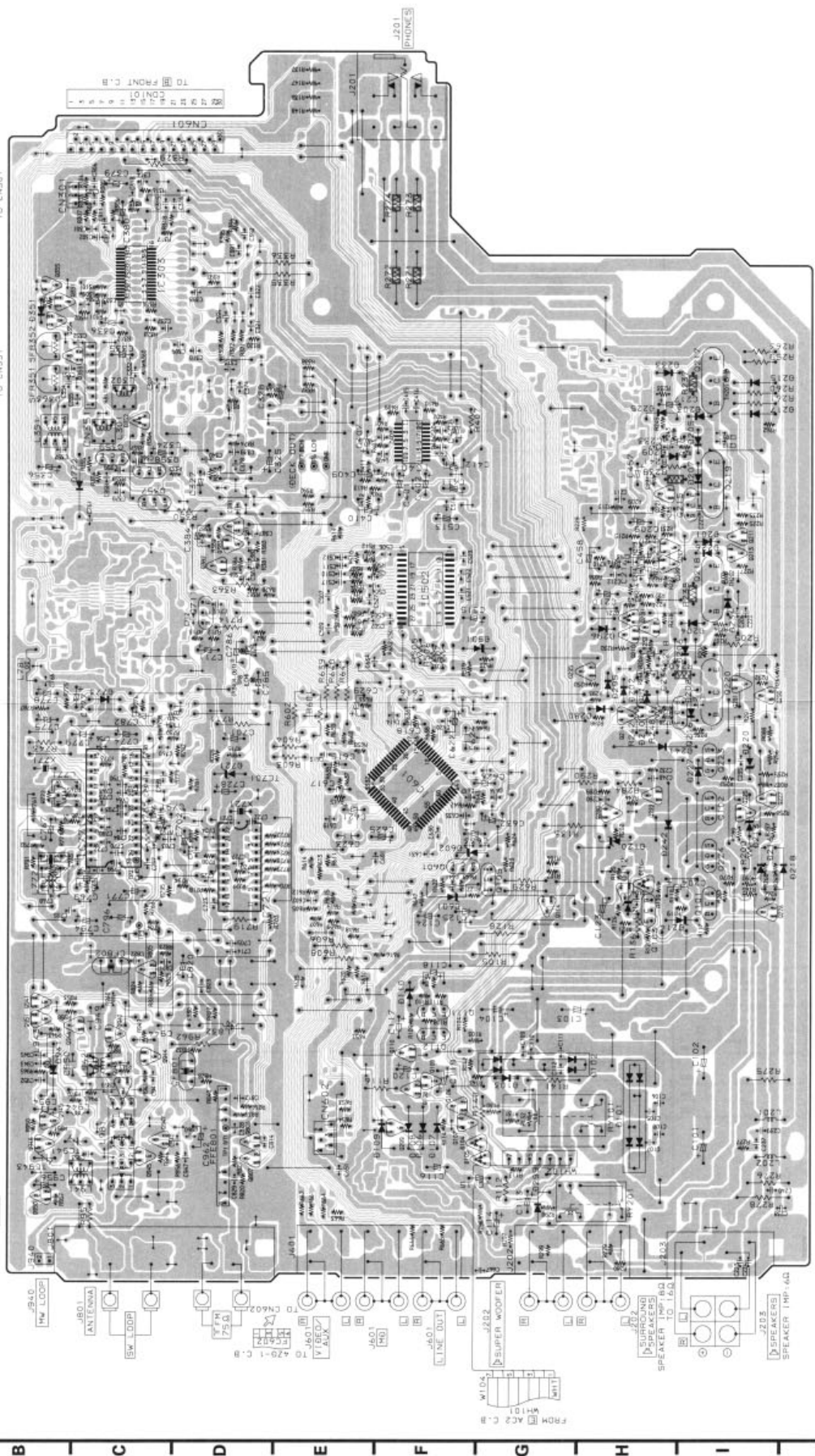
1 2 3 4 5 6 7 8 9 10 11 12 13 14

A B C D E F G H I J

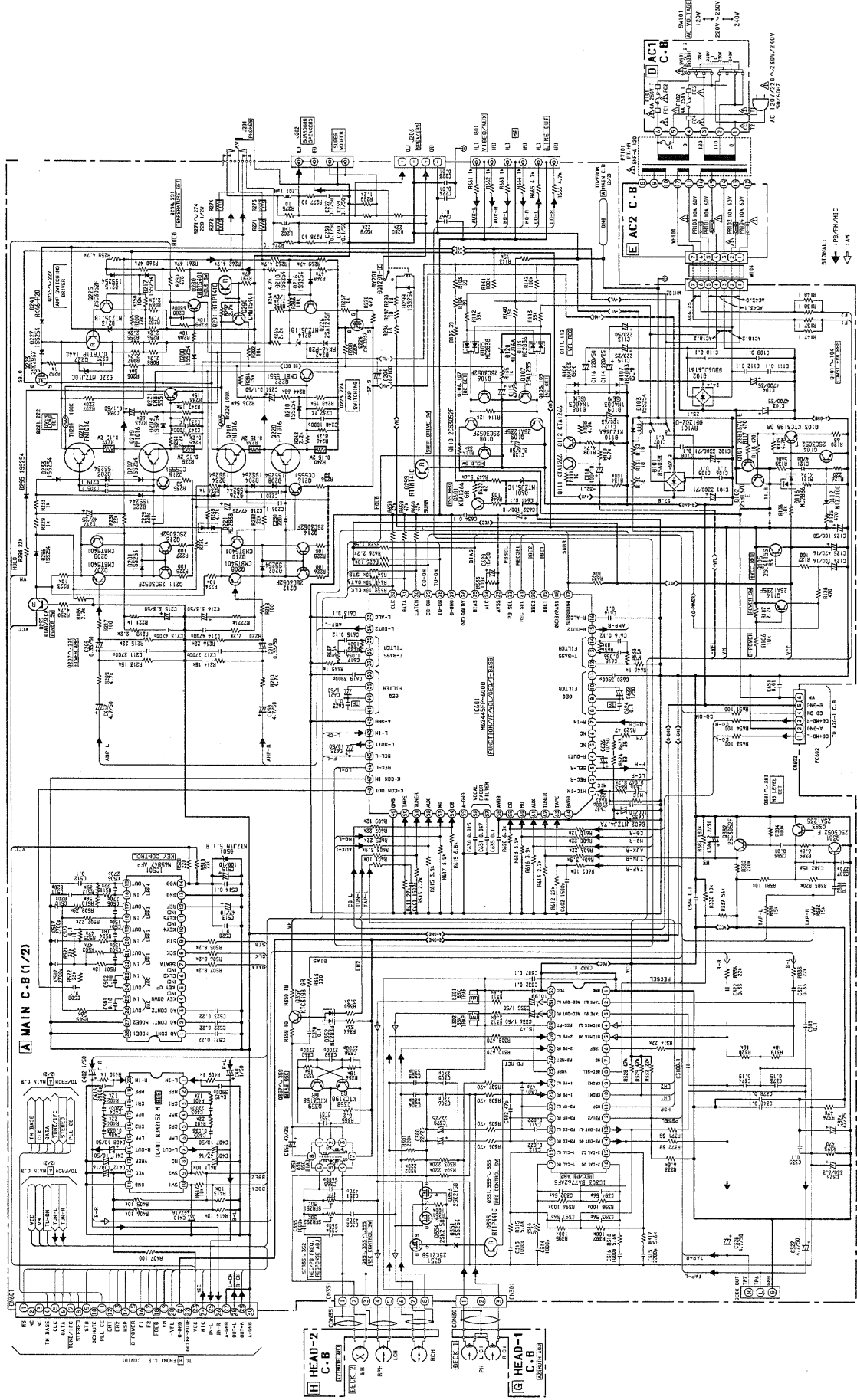
A MAIN C.B.

FROM HEAD-2 C.B.
CONSO 1
TO CNS51

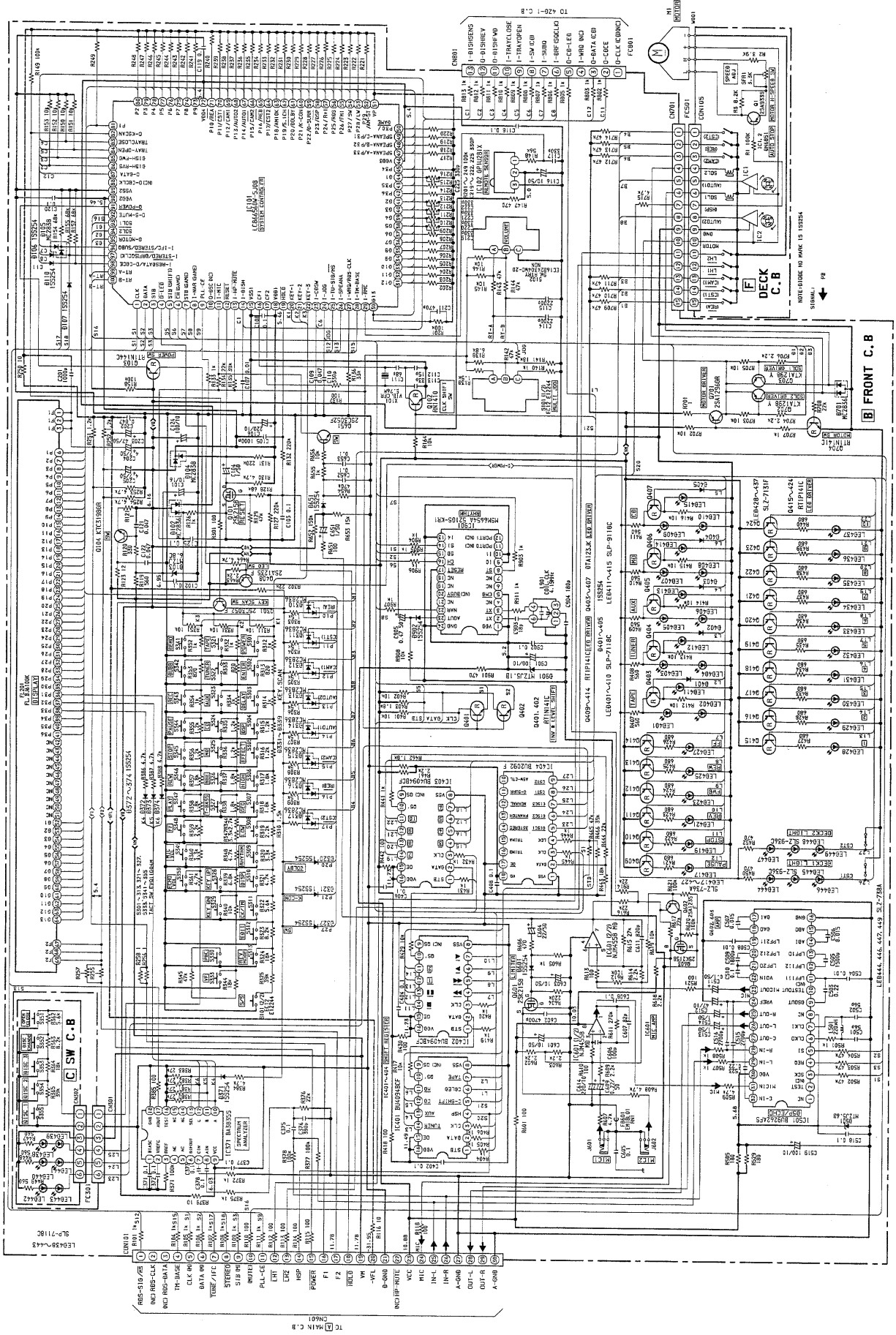
FROM HEAD-1 C.B.
CONSO 1
TO CNS51



SCHEMATIC DIAGRAM - 1 (MAIN 1/2)

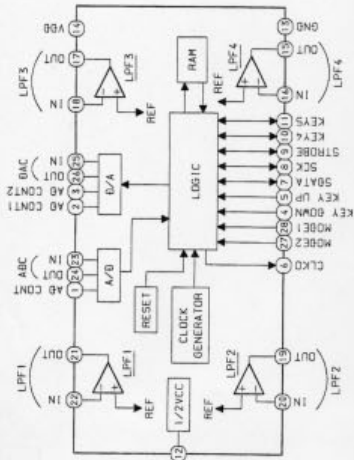


SCHEMATIC DIAGRAM - 2 (FRONT)

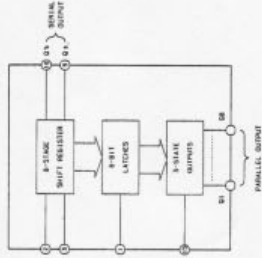


IC BLOCK DIAGRAM - 1

IC, M65847AFP



IC, BU4094BCF



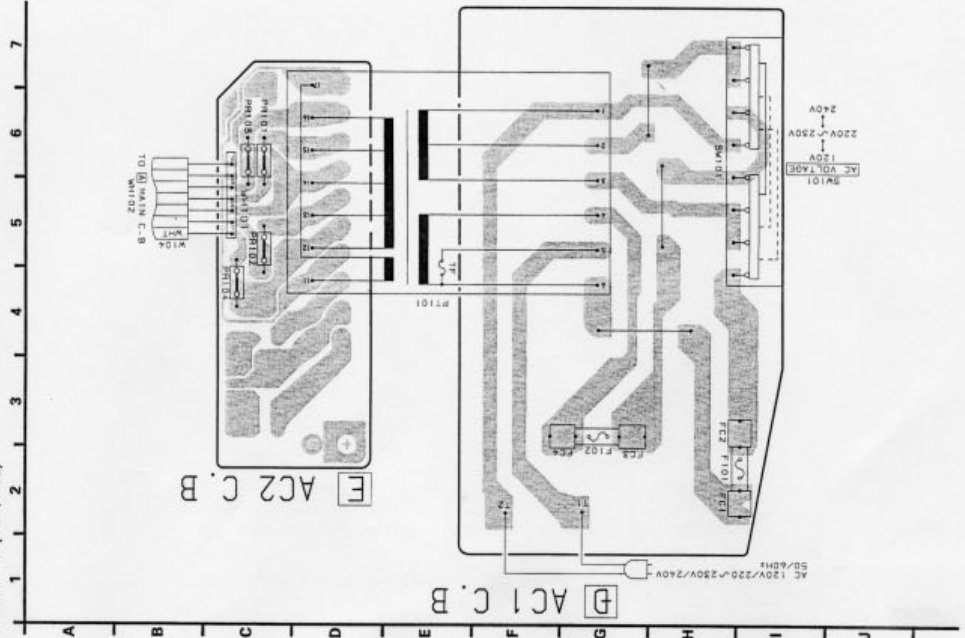
TRUTH TABLE

CLOCK	STROBE	DATA	Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10
L	X	X	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z
L	X	X	X	Z	Z	Z	Z	Z	Z	Z	Z	Z
L	X	X	X	X	Z	Z	Z	Z	Z	Z	Z	Z
L	X	X	X	X	X	Z	Z	Z	Z	Z	Z	Z
L	X	X	X	X	X	X	Z	Z	Z	Z	Z	Z
L	X	X	X	X	X	X	X	Z	Z	Z	Z	Z
L	X	X	X	X	X	X	X	X	Z	Z	Z	Z
L	X	X	X	X	X	X	X	X	X	Z	Z	Z
L	X	X	X	X	X	X	X	X	X	X	Z	Z
L	X	X	X	X	X	X	X	X	X	X	X	Z
L	X	X	X	X	X	X	X	X	X	X	X	X

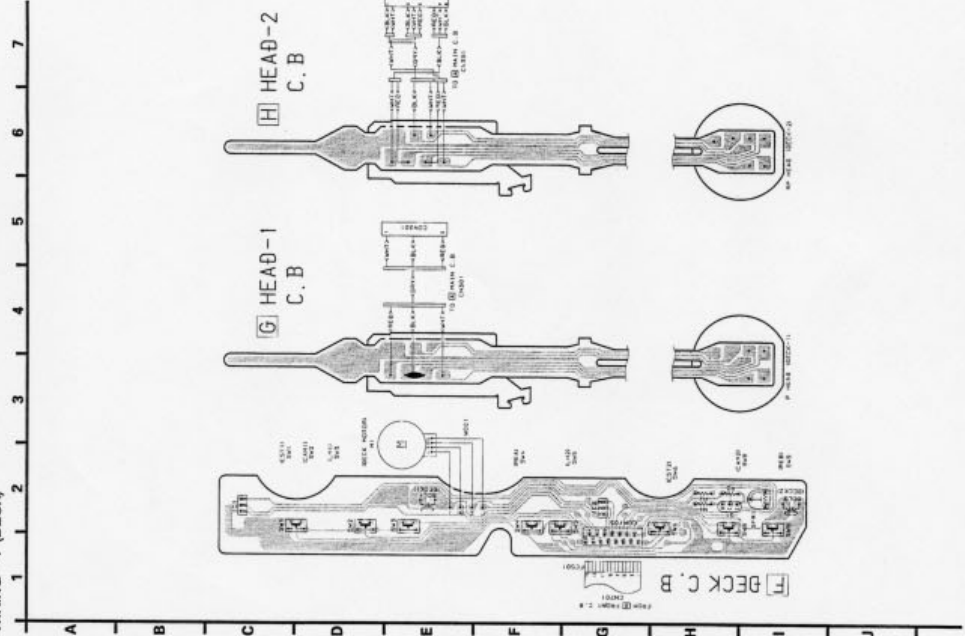
Z = HIGH IMPEDANCE

X = DON'T CARE

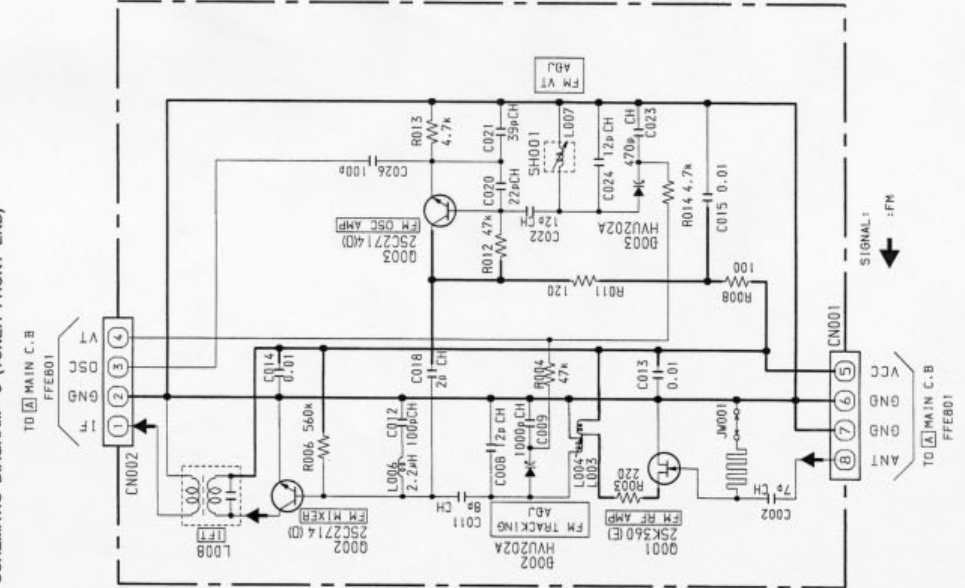
WIRING - 3 (ACT/AC2)



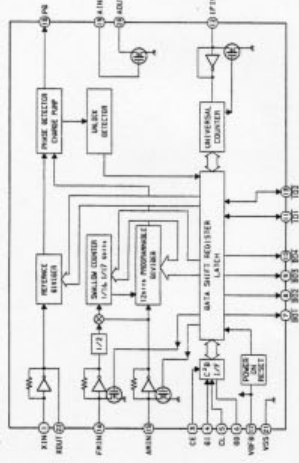
WIRING - 4 (DECK)



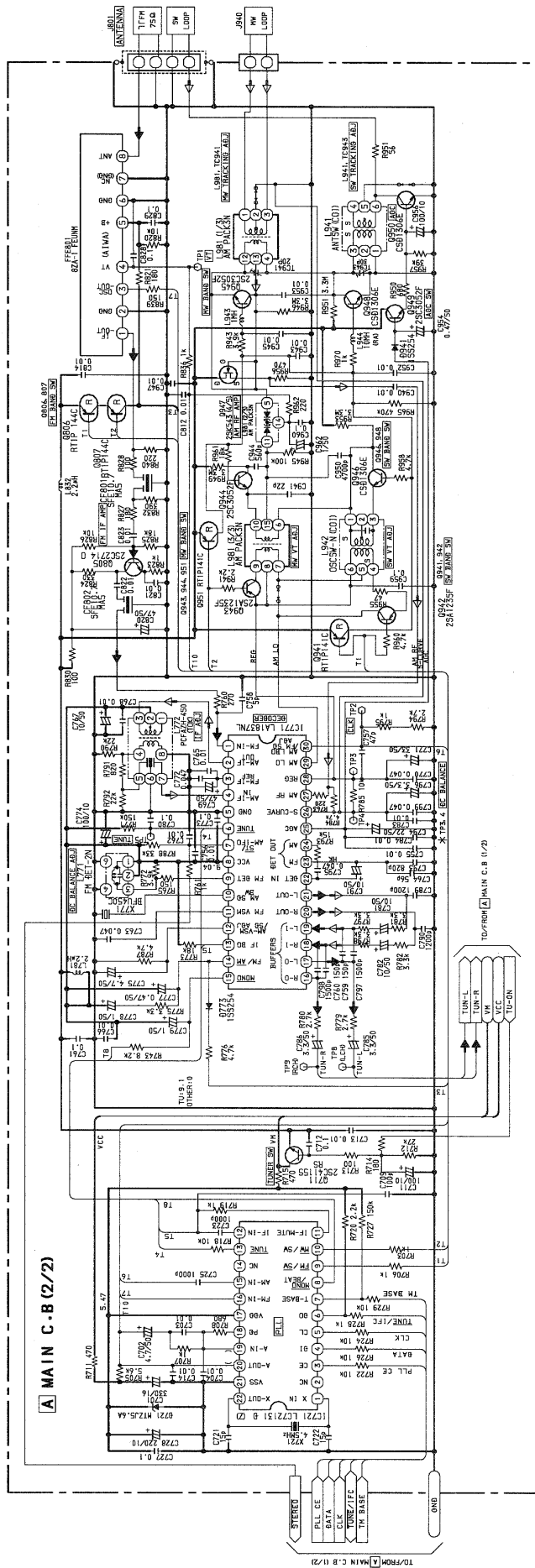
SCHEMATIC DIAGRAM - 3 (TUNER FRONT END)



IC, LC72131D

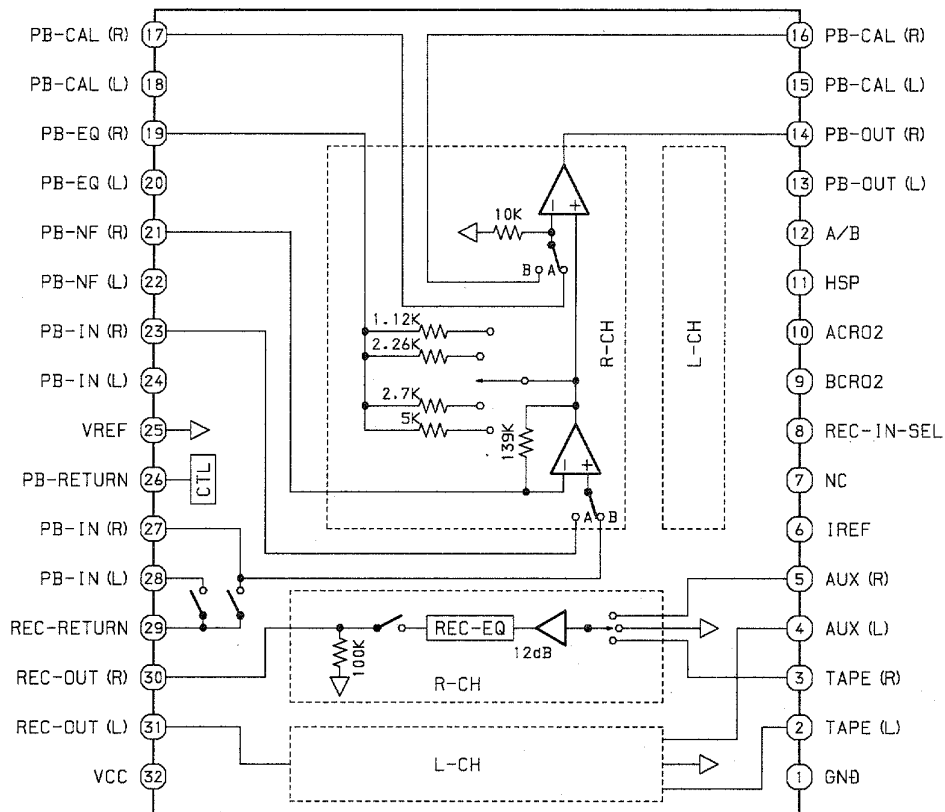


SCHEMATIC DIAGRAM - 4 (MAIN 2/2)

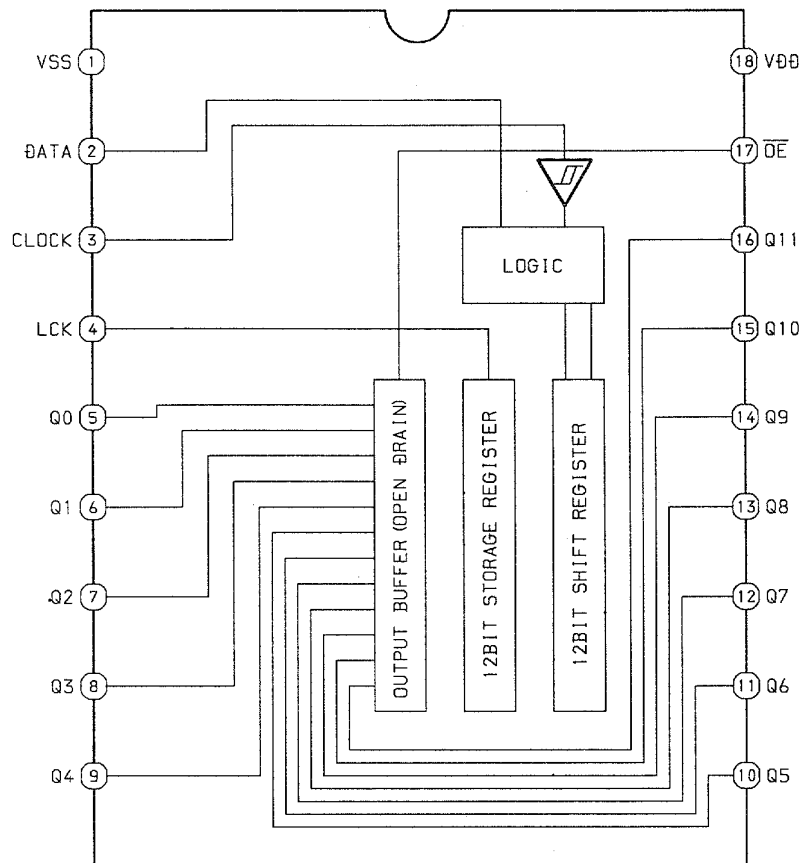


IC BLOCK DIAGRAM - 2

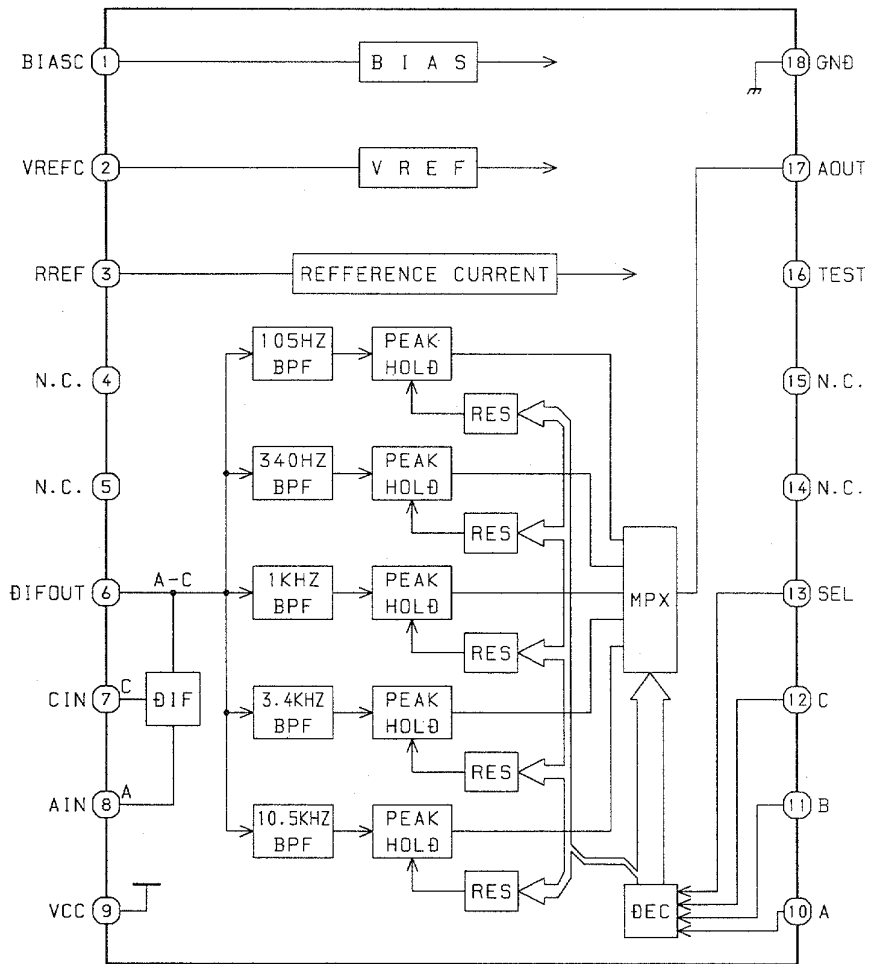
IC, BA7762AFS



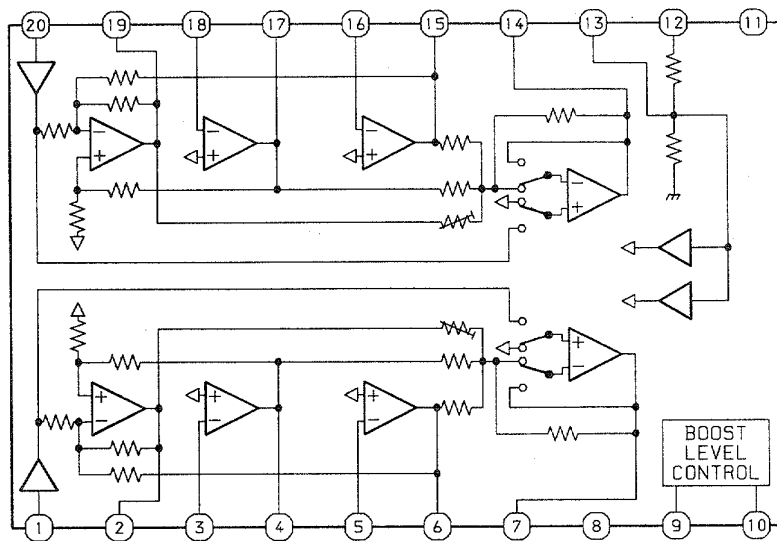
IC, BU2092F



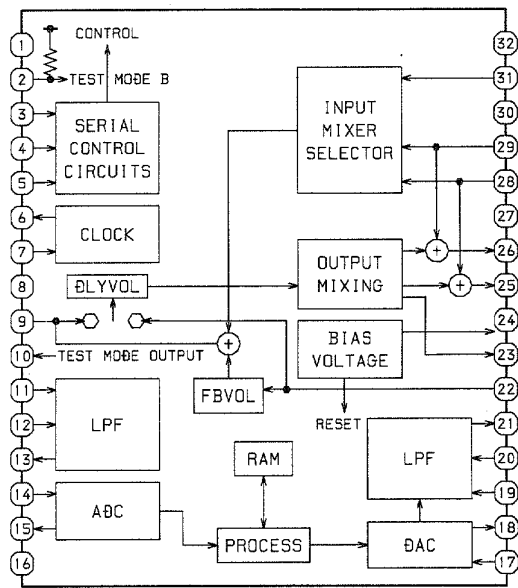
IC, BA3835S



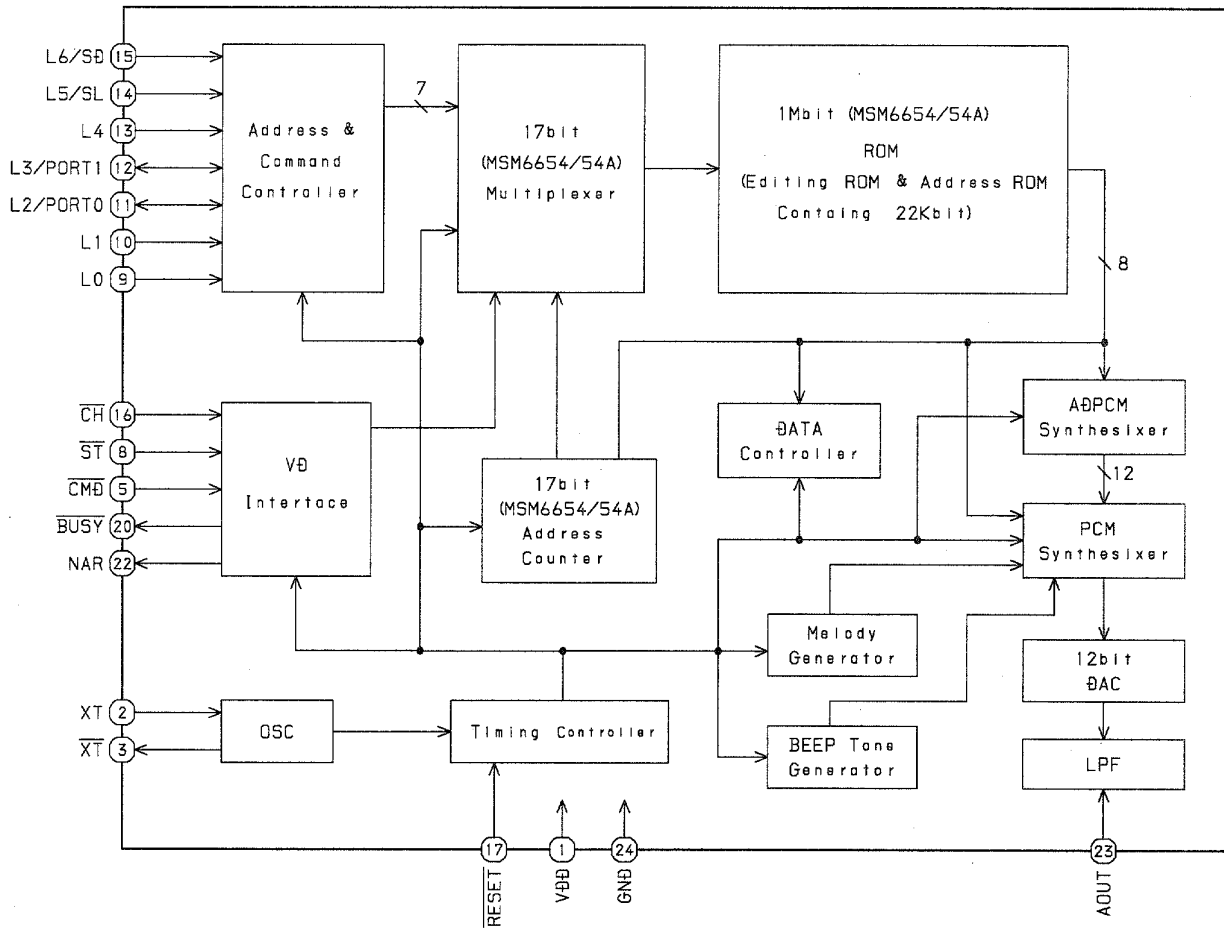
IC, NJM2152M



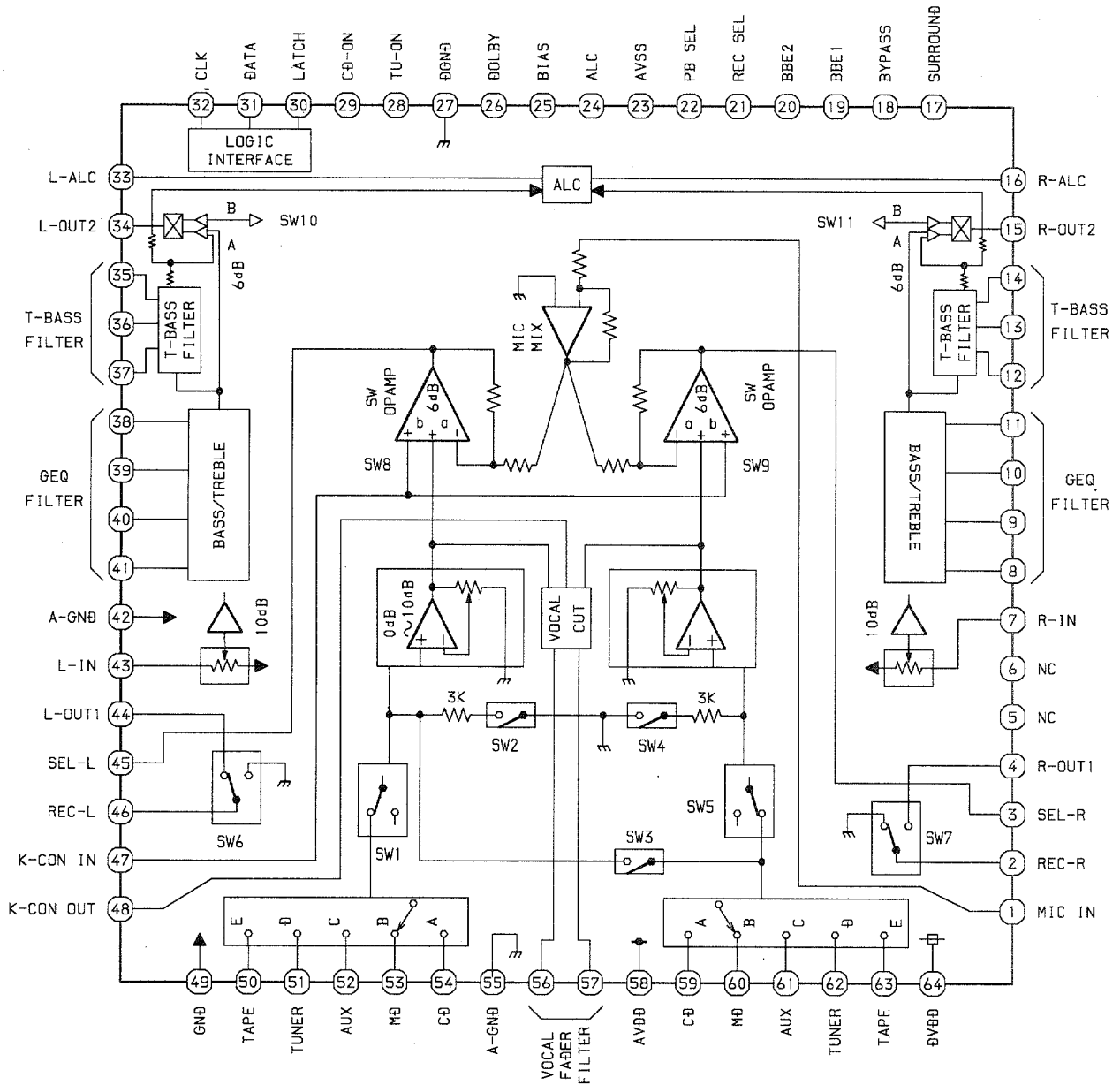
IC, BU9262AFS



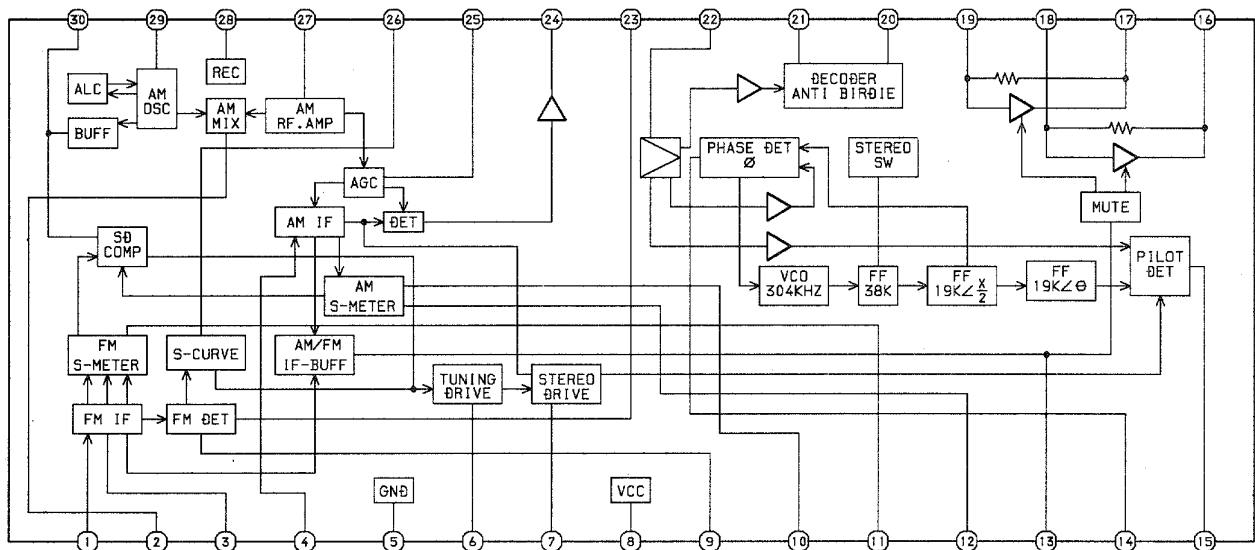
IC, MSM6654A-521GS-KR1



IC, M62445FP-600D



IC, LA1837NL



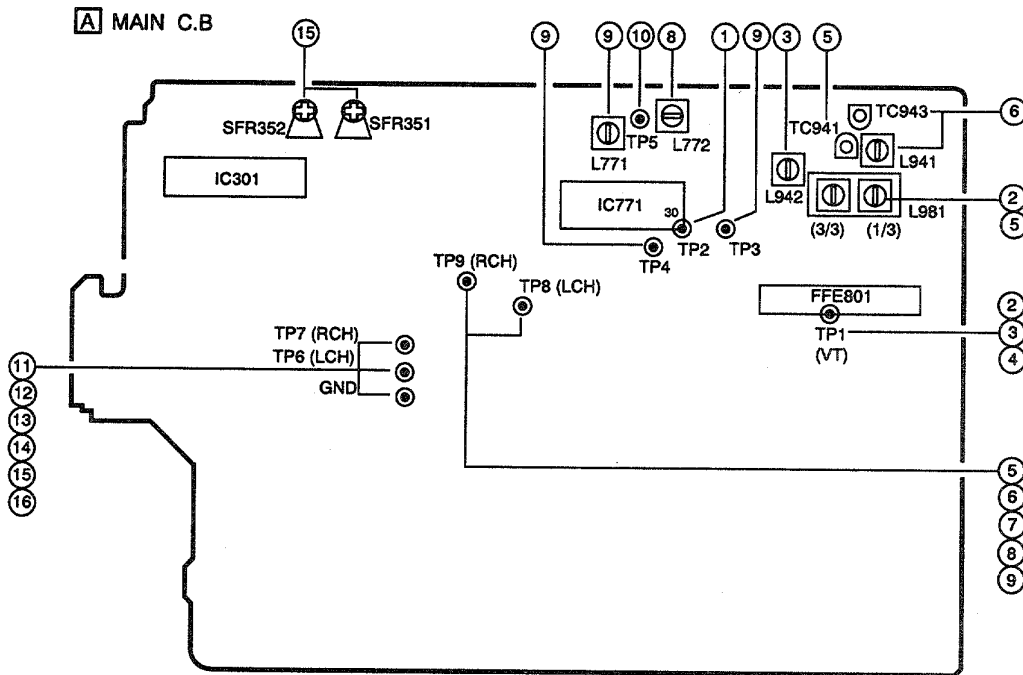
IC DESCRIPTION

IC, LC866560W-5J08

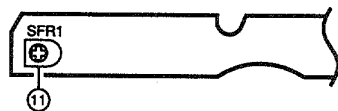
Pin No.	Pin Name	I/O	Description
1	CLK	O	CLOCK output for MAIN,FRONT PWB.
2	DATA	O	DATA output for MAIN, FRONT PWB.
3	STB	O	Latch strobe output for MAIN PWB.
4	O-LED	O	LED ON/OFF output.
5	STB (SHIFT)	O	Latch strobe output for FRONT shift register.
6	RESET (GAME)	I	Reset input for Sound IC.
7	STB (GAME)	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	I-MIC	I	Microphone input for AUTO VF display.
12	RESET	I	Reset input.
13	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	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/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	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/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/DSP	I/O	FL segment P23 output / 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/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/CST 2	I/O	FL segment P17 output / DECK2 cassette detect switch data input.
65	P16/REB	I/O	FL segment P16 output / DECK2 side-B record OK switch data input.
66	P15/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/CAM 1	I/O	FL segment P12 output / DECK1 CAM switch data input.
70	P11/CST 1	I/O	FL segment P11 output / DECK1 cassette detect switch data input.
71	P10/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	TRAY-CLS	O	CD TRAY CLOSE data output.
84	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. (Not connected)
89	VSS2	-	GND.
90	VDD2	-	Power supply input.
91	O-POWER	O	System power supply ON/OFF output.
92	O-MUTE	O	System mute ON/OFF output.
93	SOL 1	O	DECK 1 solenoid output.
94	SOL 2	O	DECK 2 solenoid output.
95	O-MOTOR	O	DECK MOTOR ON/OFF output.
96	I-IFC/STEREO/SUBQ	I	Tune IF count serial data input / CD SUBQ data input.
97	I-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.

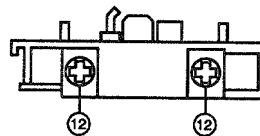
ADJUSTMENT <TUNER / DECK>



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 \pm 45Hz.
2. MW VT Adjustment
 - 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 \pm 0.05V. Then check that the test point is more than 0.3V (530kHz).
3. SW VT Adjustment
 - Settings : • Test point : TP1 (VT)
 - Adjustment location : L942
 - Method : Set to SW 17.9MHz, 5.9MHz and adjust L942 so that the test point becomes 6.0V \pm 0.05V. Then check that the test point is more than 0.3V (5.9MHz).
4. 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).
5. MW Tracking Adjustment
 - 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 maximum by L981 (1/3). Then the level at 1404kHz is adjust to maximum by TC941.
6. SW Tracking Adjustment
 - 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.
7. 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.
8. AM(MW) IF Adjustment
 - Settings : • Test point : TP8(Lch), TP9(Rch)
 - Adjustment location :
 - L772 450kHz
9. 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 \pm 0.04V. Next, check that the distortion is less than 1.3%.

10. 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 : 25dB
- Test point : TP5

Method : Check auto stop at FM 98.0MHz and the level is 25 dB ± 10 dB.

< DECK SECTION >

11. Tape Speed Adjustment (DECK 1, DECK 2)

- 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 and ±45Hz (REV) with respect to forward speed.

12. Head Azimuth Adjustment (DECK 1, DECK 2)

- 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.

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

- 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.

14. PB Sensitivity Check (DECK 1, DECK 2)

- 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 300mV ± 3dB.

15. REC/PB Frequency Response Adjustment (DECK 2)

- 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.

16. REC/PB Sensitivity Check (DECK 2)

- 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 0dB ± 3.5dB.

PRACTICAL SERVICE FIGURE

<TUNER SECTION>

<FM SECTION>

IHF Sensitivity : (THD 3%)	Less than 10 / 9 / 9dB [at 87.5 / 98.0 / 108.0MHz]
S/N 50dB Quieting sensitivity :	Less than 35dB [at 98.0MHz]
Signal to noise ratio :	Mono : More than 72dB Stereo : More than 66dB [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 :	More than 30dB [at 98.0MHz]
Intermediate frequency :	10.7MHz

<AM(MW) SECTION>

Sensitivity :	Less than 60dB [at 603kHz] 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

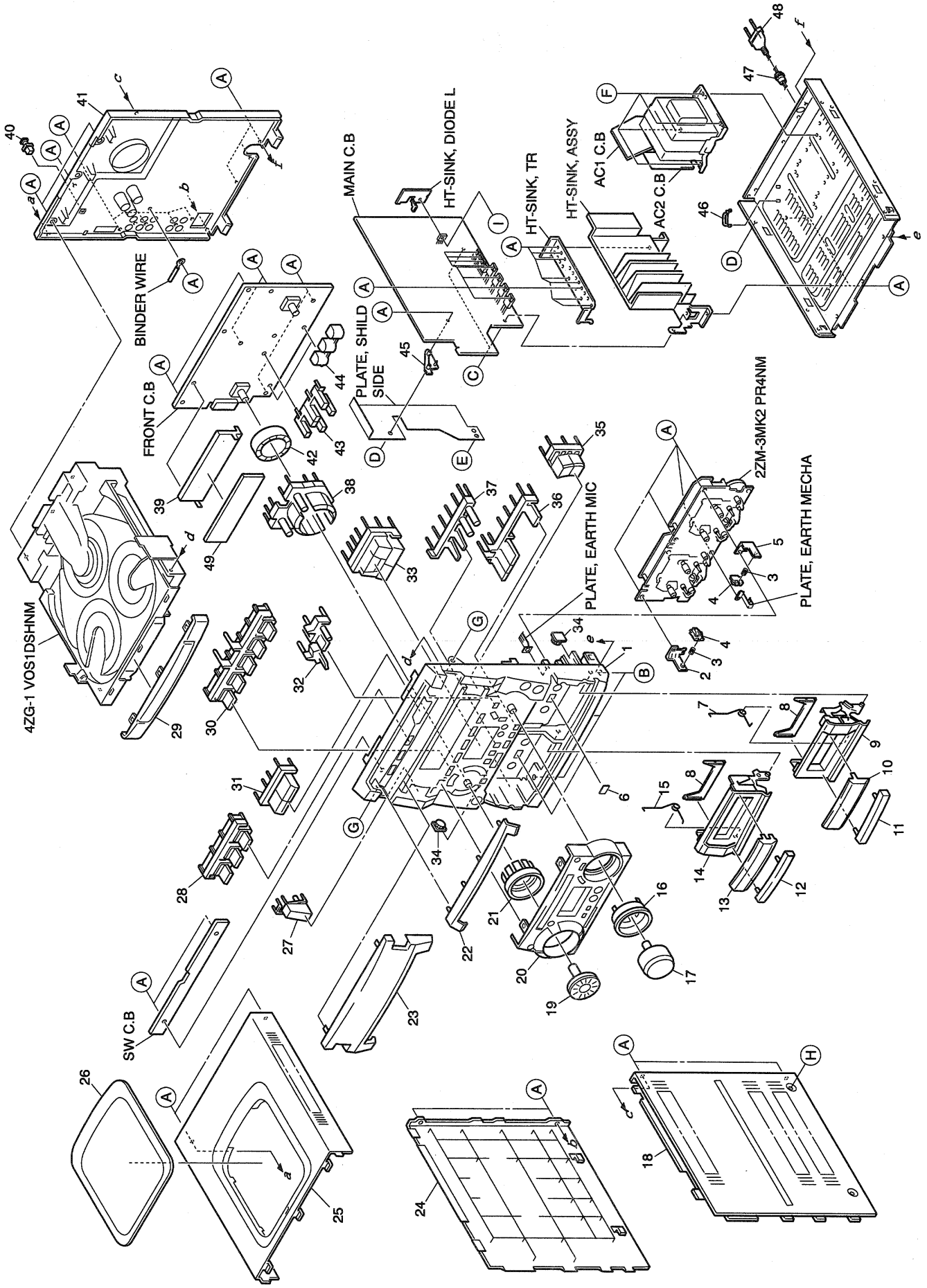
<SW SECTION>

Sensitivity :	Less than 42dB [at 5.9MHz] Less than 38dB [at 12.0 MHz] Less than 38dB [at 17.9MHz]
Overload signal Distortion :	Less than 10.0% [at 12.0MHz]
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 ± 3.0dB (SP OUT 2V)
REC/PB output level :	0dB ± 3.0dB (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-100 TTA-200 TTA-602 (NORMAL)

MECHANICAL EXPLODED VIEW 1 / 1

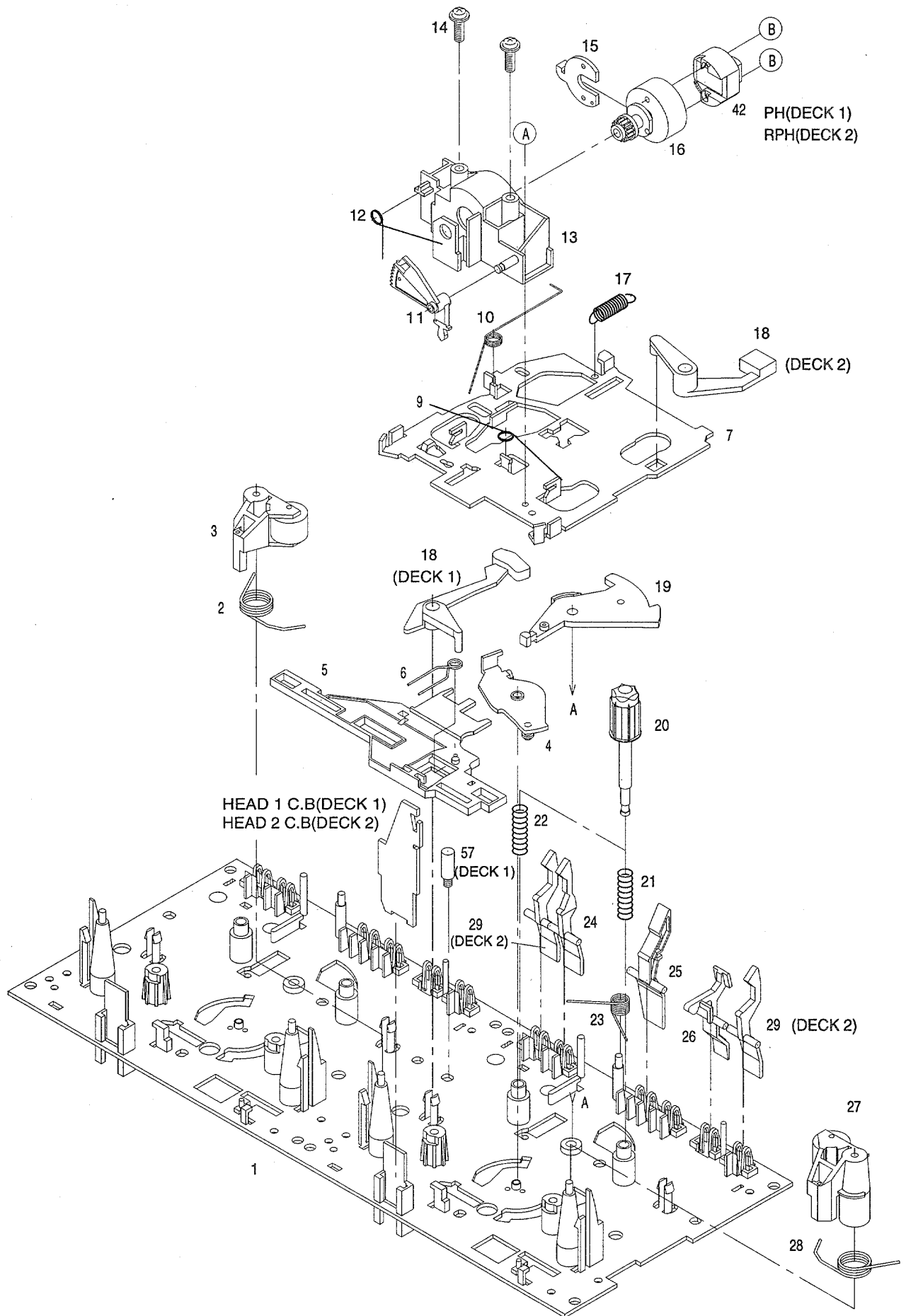


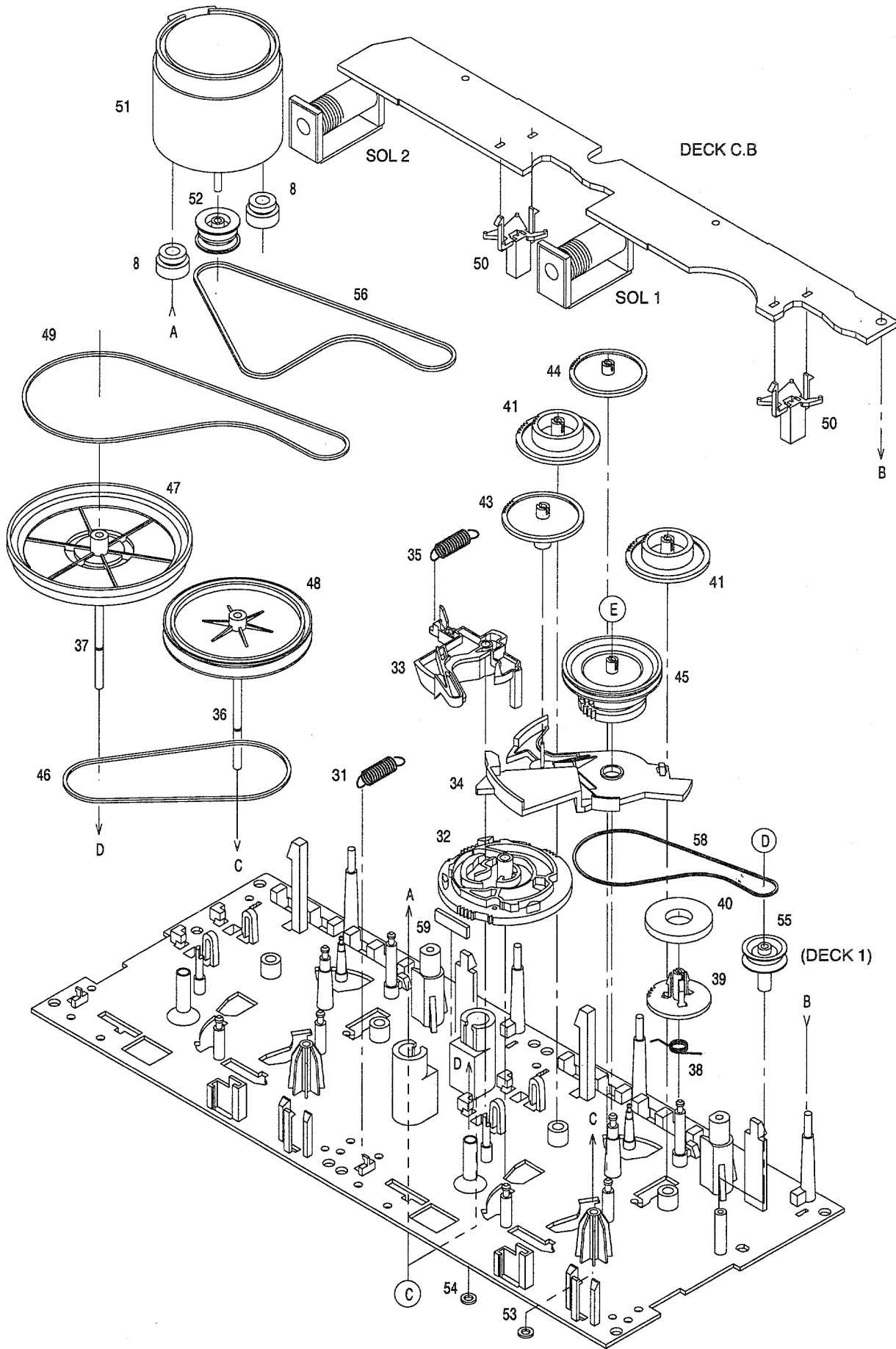
MECHANICAL PARTS LIST 1 / 1

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

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	88-NF6-018-010		CABI,FR H	30	88-NF6-030-010		KEY,ASSY FUN
2	87-NF4-216-010		HLDL,LOCK 1	31	88-NF6-025-010		KEY,OPEN
3	86-NF9-224-010		SPR-C,LOCK	32	88-NF6-036-010		KEY,MIC
4	82-NF5-229-010		PLATE,LOCK	33	88-NH6-012-010		KEY,ASSY OPE H6
5	87-NF4-217-010		HLDL,LOCK 2	34	87-NF8-220-010		DMPR,150
6	81-532-080-010		LABEL, CASS. COMPT	35	88-NF6-027-010		KEY,BBE
7	82-NF5-219-010		SPR-T,EJECT 2 (SIN)	36	88-NH6-007-010		KEY,PBC
8	86-NF6-061-010		REFLECTOR,CASS	37	88-NF6-037-010		KEY,REC
9	88-NF6-004-010		BOX,CASS 2	38	88-NF6-029-110		KEY,JOG
10	88-NF6-014-010		WINDOW,CASS 2	39	88-NF6-205-010		GUIDE,FL 40-150- 9
11	88-NF6-009-010		PLATE,CASS 2	40	84-2G1-245-210		CAP,OPTICAL
12	88-NF6-008-010		PLATE,CASS 1	41	88-NH6-014-010		CABI,REAR HRJSTNM 765<765>
13	88-NF6-013-010		WINDOW,CASS 1	41	88-NH6-005-010		CABI,REAR HRJSTNM<770>
14	88-NF6-003-010		BOX,CASS 1	42	88-NF6-203-010		GUIDE,LED JOG
15	82-NF5-218-010		SPR-T,EJECT 1 (SIN)	43	88-NF6-204-110		GUIDE,LED OPE
16	88-NF6-017-010		RING,VOL	44	87-NF5-210-010		GUIDE,LED
17	88-NF6-015-110		KNOB,RTRY VOL	45	88-NF5-208-010		HLDL,PWB-M N
18	88-NF8-047-010		PANEL,RIGHT 2	46	87-NF4-221-010		HLDL,CABLE
19	88-NF6-016-110		KNOB,RTRY JOG	47	87-085-185-010		BUSHING, AC CORD (E)
20	88-NH6-002-010		PANEL,FR H H6	48	87-050-079-010		AC-CORD ASSY,E
21	88-NF6-050-010		REFLECTOR, JOG	49	88-NF6-611-010		FL,BJ610GK
22	88-NF6-007-010		PANEL,CD	A	87-067-703-010		TAPPING SCREW, BVT2+3-10
23	88-NH6-016-010		WINDOW,DISPLAY H 765<765>	B	87-067-688-010		BVTT+3-6
23	88-NH6-003-010		WINDOW,DISPLAY H6<770>	C	87-NF4-224-010		S-SCREW,IT3B+3-8 CU
24	87-NB8-005-010		PANEL,LEFT	D	87-721-096-410		QT2+3-10 GLD
25	87-NF6-021-010		PANEL, TOP	E	87-591-094-410		TAPPING SCREW, QIT+3-6
26	86-NF6-007-010		WINDOW, TOP	F	87-078-019-010		S-SCREW,IT+4-6
27	88-NF6-026-010		KEY,POWER	G	87-721-097-410		QT2+3-12 GLD
28	88-NF6-021-010		KEY,ASSY DISC	H	87-067-641-010		UTT2+3-8(W/O SLOT)BL
29	88-NH6-004-010		PANEL,TRAY H6	I	87-067-579-010		TAPPING SCREW, BVT2+3-8

TAPE MECHANISM EXPLODED VIEW 1 / 1



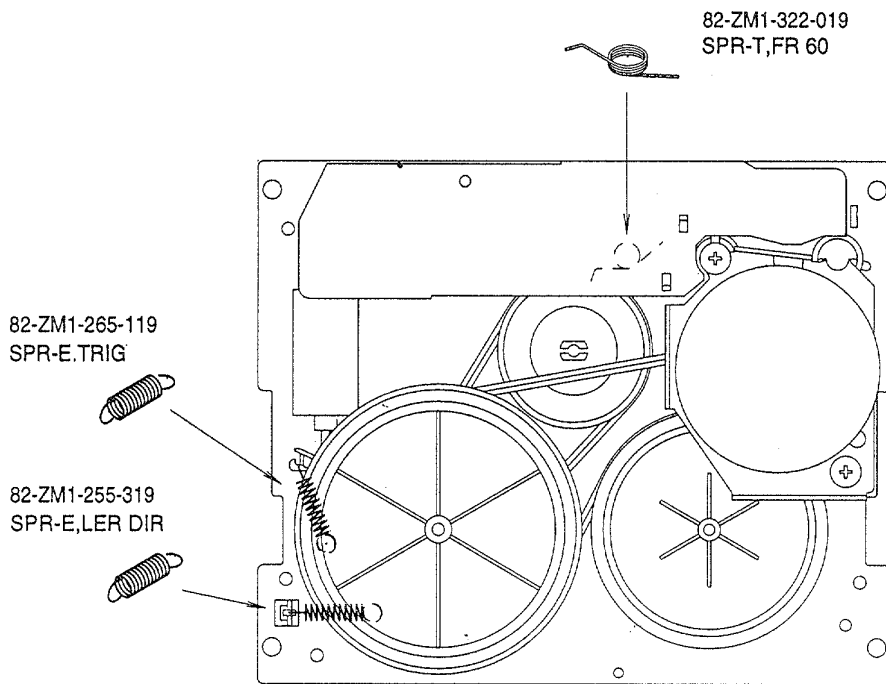
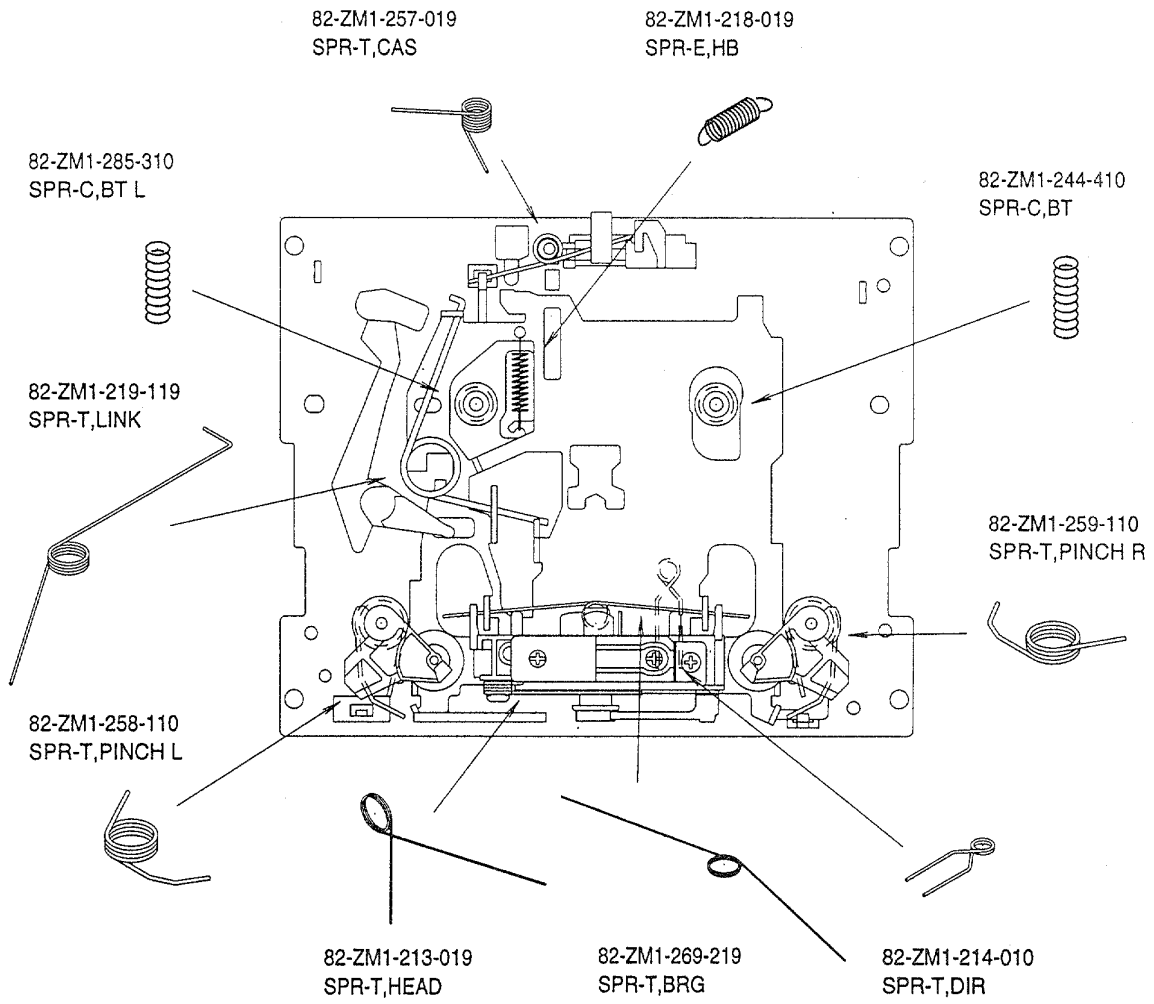


TAPE MECHANISM PARTS LIST 1 / 1

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-ZM3-301-519		CHAS ASSY,M2	36	82-ZM1-236-019		CAPSTAN N 2-41.5
2	82-ZM1-258-110		SPR-T,PINCH L	37	82-ZM1-239-019		CAPSTAN N 2.2-41.7
3	82-ZM1-341-110		LVR ASSY,PINCH L2	38	82-ZM1-322-019		SPR-T,FR60
4	82-ZM1-333-010		PLATE,LINK 2	39	82-ZM1-220-219		GEAR,IDLER
5	82-ZM1-266-11K		LVR,DIR	40	82-ZM3-616-019		RING MAGNET 4
6	82-ZM1-214-010		SPR-T,DIR	41	82-ZM1-216-31K		GEAR,REEL
7	82-ZM1-206-81K		CHAS,HEAD	42	87-A90-319-010		HEAD,PH HADKH2 FPC
8	82-ZM3-307-019		CUSH-G,DIA3.7-8-3.2	42	87-A90-320-010		HEAD,RPH HADKH5 FPC
9	82-ZM1-269-219		SPR-T,BRG	43	82-ZM1-225-21K		GEAR,FR
10	82-ZM1-219-119		SPR-T,LINK	44	82-ZM1-226-019		GEAR,REW
11	82-ZM1-210-119		GEAR,H T	45	82-ZM3-333-310		SLIP DISK ASSY 2
12	82-ZM1-213-019		SPR-T,HEAD	46	82-ZM1-338-010		BELT FR4
13	82-ZM1-207-619		GUIDE,TAPE	47	82-ZM1-349-110		FLY-WHL,R W(DECK 2)
14	86-ZM4-206-010		S-SCREW,AZIMUTH	47	82-ZM3-338-110		FLY-WHL,R3 W(DECK 1)
15	82-ZM1-314-119		PLATE,HEAD	48	82-ZM1-348-010		FLY-WHL,L W(DECK 2)
16	82-ZM1-208-119		HLDR,HEAD	48	82-ZM1-348-010		FLY-WHL,L W(DECK 1)
17	82-ZM1-218-019		SPR-E,HB	49	82-ZM3-329-210		BELT,SBU R2
18	82-ZM1-263-110		LVR,EJECT L (DECK 1)	50	82-ZM1-245-210		HLDR,IC
18	82-ZM1-264-010		LVR,EJECT R (DECK 2)	51	87-045-347-019		MOT,SHU2L 70(M1)
19	82-ZM1-222-21K		LVR,PLAY	52	82-ZM3-221-010		PULLEY,MOT 2M
20	82-ZM1-217-319		REEL TABLE	53	82-ZM1-288-019		SH,1.63-3.2-0.5 SLT
21	82-ZM1-244-510		SPR-C,BT	54	80-ZM6-243-019		SH,1.75-3.6-0.5 SLT
22	82-ZM1-285-310		SPR-C,BT L	55	82-ZM3-335-210		PULLEY,COUPLER M3(DECK 1)
23	82-ZM1-257-019		SPR-T,CAS	56	82-ZM3-337-010		BELT,SBU MOT 2
24	82-ZM1-241-319		LVR,MC	57	82-ZM3-339-010		SHAFT,COUPLER N3(DECK 1)
25	82-ZM1-242-019		LVR,CAS	58	86-ZM1-206-010		BELT,MAIN L
26	82-ZM1-243-019		LVR,STOP	59	82-ZM3-340-010		SH,BELT D2
27	82-ZM1-344-110		LVR ASSY,PINCH R2	A	85-ZM3-202-010		S-SCREW,TG
28	82-ZM1-259-110		SPR-T,PINCH R	B	80-ZM6-207-019		V+1.6-7
29	82-ZM1-240-11K		LVR,REC (DECK 2)	C	82-ZM3-318-019		S-SCRW MOTOR M2
31	82-ZM1-255-319		SPR-E,LVR DIR	D	87-B10-043-010		W-P,0.99-4-0.25 SLT
32	82-ZM3-305-01K		GEAR,CAM M2	E	82-ZM3-334-010		PW,2.16-6-0.4
33	82-ZM1-227-21K		LVR,TRIG				
34	82-ZM3-306-11K		LVR,FR M2				
35	82-ZM1-265-119		SPR-E,TRIG				

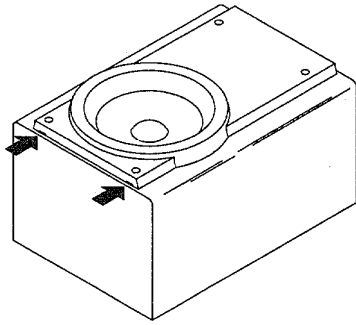
SPRING APPLICATION POSITION



SPEAKER DISASSEMBLY INSTRUCTIONS

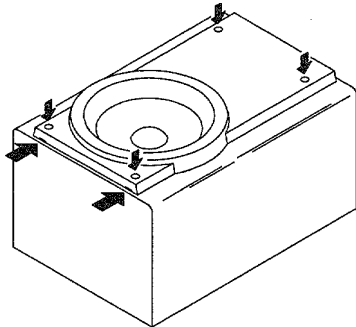
Type.1

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.



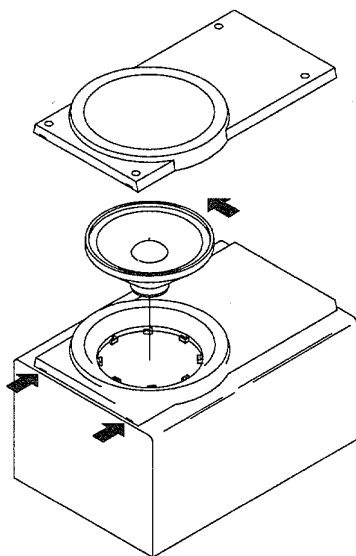
Type.2

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.

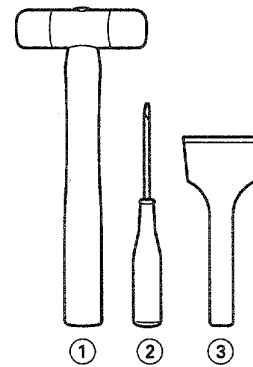


Type.3

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.



Type.4



TOOLS

- ① Plastic head hammer
- ② (⊖) flat head screwdriver
- ③ Cut chisel

How to Remove the PANEL, FR

1. Insert the (⊖) flat head screwdriver tip into the gap between the PANEL, FR and the PANEL, SPKR. Tap the head of the (⊖) flat head screwdriver with the plastic hammer head, and create the clearance as shown in Fig-1.
2. Insert the cut chisel in the clearance, and tap the head of the cut chisel with plastic hammer as shown in Fig-2, to remove the PANEL, FR.
3. Place the speaker horizontally. Tap head of the cut chisel with plastic hammer as shown in Fig-3, and remove the PANEL, FR completely.

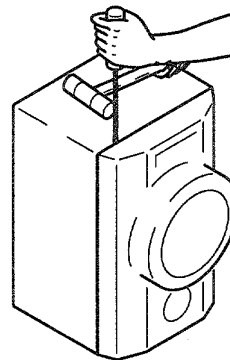


Fig-1

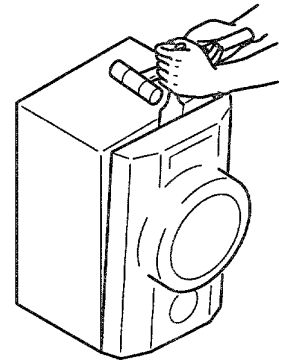


Fig-2

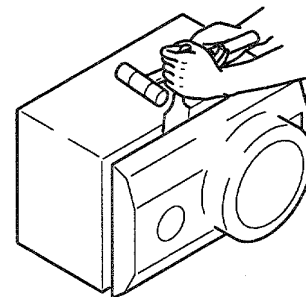


Fig-3

How to Attach the PANEL, FR

Attach the PANEL, FR to the PANEL, SPKR. Tap the four corners of the PANEL, FR with the plastic hammer to fit the PANEL, FR into the PANEL, SPKR completely.

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

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

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-NH6-901-010		IB, H(ECA)M
2	87-006-269-010		AM LOOP ANT
3	87-043-115-010		FEEDER-ANT, FM
4	87-099-789-010		PLUG, CONVERSION IR44
5	88-MG1-701-010		RC UNIT, RC-8AS02
6	87-043-095-010		ANT, WIRE
7	87-050-103-010		CORD, PIN 1PY 1.5M

REFERENCE NAME LIST

ELECTRICAL SECTION

DESCRIPTION	REFERENCE NAME
ANT	ANTENNAS
C-CHIP	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

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	FRYWHEEL
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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