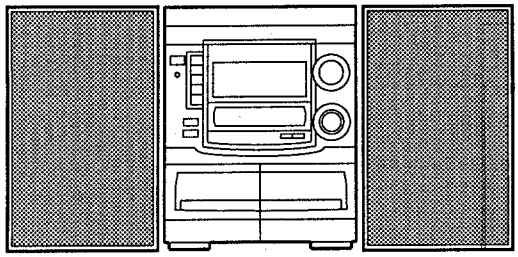
aiwa

aiwa SERVICE

NSX-AV520
NSX-MT520

SERVICE MANUAL



COMPACT DISC STEREO
CASSETTE RECEIVER

- BASIC TAPE MECHANISM : 2ZM-3MK2 PR4NM, 6ZM-3 YPR2N
- BASIC CD MECHANISM : 4ZG-1 (Z3DSHNM, Z4SHMD)
- TYPE : EZ(AV520), U(MT520)

REVISION PUBLISHING

SYSTEM	CD CASSEIVER	SPEAKER	REMOTE CONTROLLER
NSX-AV520	CX-NAV520 (TYPE : EZ)	SX-NAV504 SX-C605 SX-R275	RC-7AS09
NSX-MT520	CX-NMT520 (TYPE : U)	SX-NA502 SX-C605 SX-R275	

- This Service Manual is the "Revision Publishing" and replaces "Simple Manual", S/M Code No. 09-985-276-5FE(U), S/M Code No. 09-986-284-3FE(EZ).
- If requiring information about the CD mechanism, see Service Manual of 4ZG-1, S/M Code No. 09-983-249-3OT.

S/M Code No. 09–987–249–4FE

TABLE OF CONTENTS

SPECIFICATIONS

<FM Tuner section>
Tuning range 87.5 MHz to 108 MHz
Usable sensitivity(IHF) U : 13.2 dBf
EZ : 16.8 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

<LW Tuner section> (EZ)
Tuning range 144 kHz to 290 kHz
Usable sensitivity 1400 uV/m
Antenna Loop antenna

<Amplifier section>
Power output
Front
U : 40 W + 40 W (50 Hz - 20 kHz,THD less than 1%, 6 ohms)
EZ : Rated 60 W + 60 W
(6 ohms, THD 1%, 1 kHz / DIN 45500)
Reference : 75 W + 75 W
(6 ohms, THD 10%, 1 kHz / DIN 45324)
DIN MUSIC POWER : 160 W + 160 W
Rear (Surround)
U : 20 W + 20 W (50 Hz – 20 kHz,THD less than 1%, 8 ohms)
EZ : Rated 20 W + 20 W
(8 ohms, THD 1%, 1 kHz / DIN 45500)
Reference : 25 W + 25 W
(8 ohms, THD 10%, 1 kHz / DIN 45324)
DIN MUSIC POWER : 65 W + 65 W
Center
U : 20 W (50 Hz – 20 kHz,THD less than 1%, 8 ohms)
EZ : Rated 20 W
(8 ohms, THD 1%, 1 kHz / DIN 45500)
Reference : 25 W
(8 ohms, THD 10%, 1 kHz / DIN 45324)
DIN MUSIC POWER : 65 W
Total harmonic distortion U : 0.1% (30 W, 1 kHz, 6 ohms, DIN AUDIO / Front)
EZ : 0.1% (45 W, 1 kHz, 6 ohms, DIN AUDIO / Front)
Inputs VIDEO/AUX : 150 mV(adjustable)
MD : 150mV (adjustable)
MIC1, MIC2 : 1.0 mV (10 kohms)
5.1 CH INPUT
FRONT (L, R) : 400 mV
REAR (L, R) : 270 mV
CENTER : 270 mV
SUB WOOFER : 400mV
Outputs LINE OUT: 200mV
SUPER WOOFERS : 1.0 V
SPEAKERS: accept speakers of 6 ohms or more
SURROUND SPEAKERS: accept speakers of 8 ohms to 16 ohms
CENTER SPEAKERS: accept speakers of 8 ohms or more PHONES (stereo jack) : accepts headphones of 32 ohms or more

<Cassette deck section>
Track format 4 tracks, 2 channels stereo
Frequency response U : 50 Hz – 15000 Hz
EZ : CrO_2 tape : 50 Hz – 16000 Hz
EZ : 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 (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–NA502>(MT520U)
Cabinet type 3 way, bass reflex (magnetic shielded type)
Speakers Woofer : 140 mm (6 $^3/_8$ in.) cone type
Tweeter : 60 mm (2 $^3/_8$ in.) cone type
Super tweeter : 10 mm ($^{13}/_{16}$ in.) ceramic type
Impedance 6 ohms
Output sound pressure level 87 dB/W/m
Dimensions (W x H x D) 235 x 324 x 250 mm
(9 $^3/_8$ X 12 $^7/_8$ X 9 $^7/_8$ in.)
Weight 3.9 kg (7 lbs 4 oz.)

<Speaker system SX–NAV504>(AV520EZ)
Cabinet type 2 way, bass reflex (magnetic shielded type)
Speakers Woofer : 160 mm cone type
Tweeter : 60 mm cone type
Impedance 6 ohms
Output sound pressure level 87 dB/W/m
Dimensions (W x H x D) 250 x 324 x 275 mm
Weight 3.9 kg

<General>
Power requirements U : 120 VAC, 60 Hz
EZ : 230 VAC, 50 Hz
Power consumption U : 160 W
EZ : 175 W
Dimensions of main unit 260 x 329.1 x 344.5 mm
(10 $^1/_4$ X 13 X 13 $^5/_8$ in.)
Weight of main unit U : 7.6 kg (16 lbs 12 oz.)
EZ : 8.2 kg

- Design and specifications are subject to change without notice.

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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.

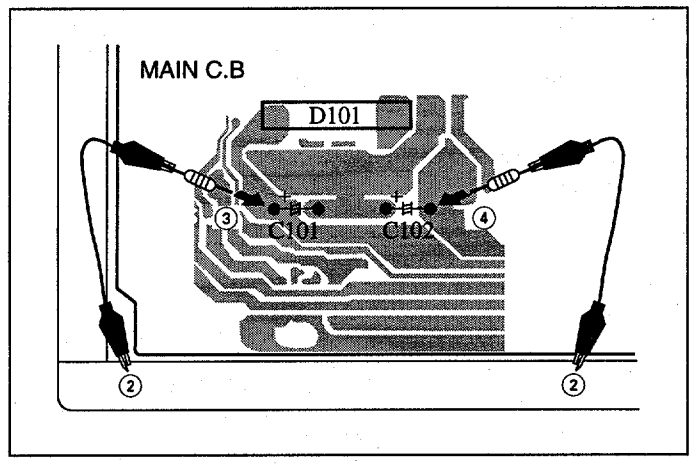


Fig-1

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.

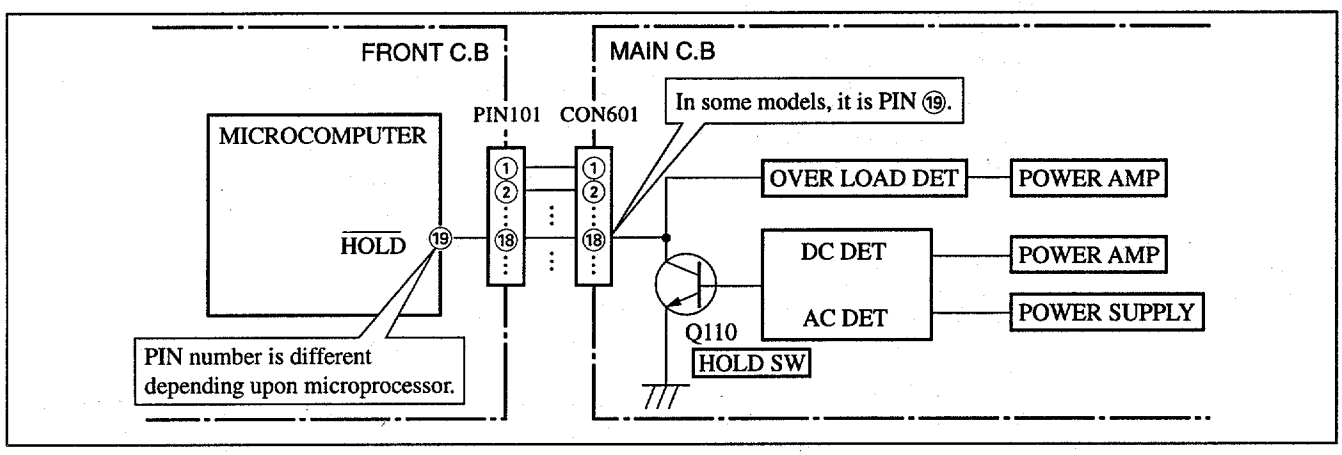


Fig-2-1

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.

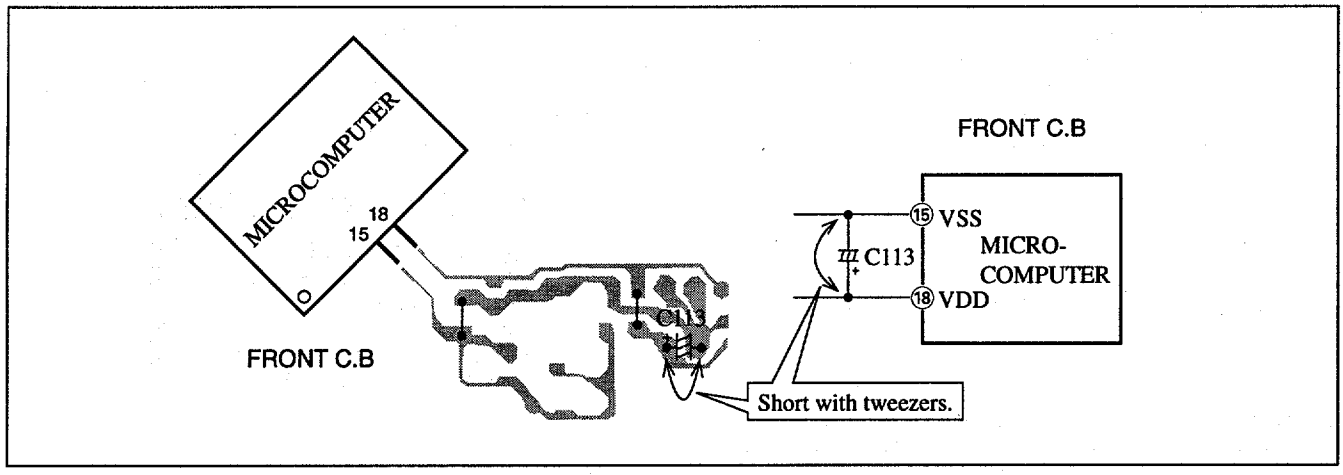


Fig-2-2

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.

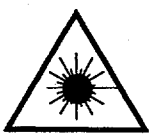
2-3. Confirmation of soldering state of MICROCOMPUTER

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.

CLASS 1	LASER PRODUCT
KLASSE 1	LASER PRODUKT
LUOKAN 1	LASER LAITE
KLASS 1	LASER APPARAT

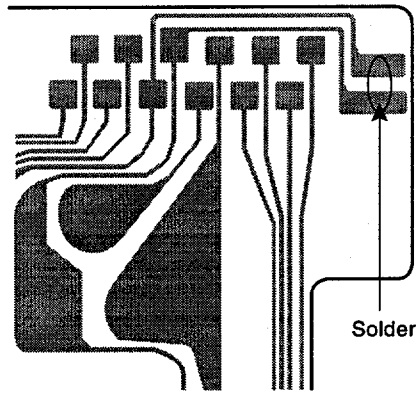
Precaution to replace Optical block

(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-NF7-750-010		C-IC,LC866560W-5H26
	87-070-083-010		IC,GP1U281X
	87-A20-783-040		C-IC,BA7762AFS<EZ>
	87-A20-083-010		IC,BA3835S
	87-A20-804-040		C-IC,NJM2152M
	87-017-915-080		IC,BU4094BCF
	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<U>
	87-020-454-010		IC,DN6851
	87-070-121-010		IC,HA12185NT<U>
	87-A20-913-010		IC,LA1837NL<EZ>
	87-A20-440-010		C-IC,BU1920FS<EZ>
	87-A20-355-010		IC,CXA1533P<EZ>
	87-070-289-040		IC,BU2092F
	87-A20-715-010		IC,M62439SP
	87-A20-853-010		C-IC,M62463FP
	87-017-726-080		C-IC,BU4052BCF
	87-017-917-080		C-IC,BU4066BCF
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-A30-106-070		C-TR,CMBT5551
	87-A30-186-010		FET,2SK3053<EZ>
	87-A30-072-080		C-TR,RT1P 144C
	87-A30-074-080		C-TR,RT1P 141C
	87-A30-073-080		C-TR,RT1N 141C
	87-A30-105-080		C-TR,RT1P 441C
	87-026-580-080		C-TR,DTA123JK
	87-A30-086-070		C-TR,CSD1306E
	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
	89-505-434-540		C-FET,2SK543-TB(4/5)<EZ>
	87-A30-137-010		TR,2SD2494
	87-A30-138-010		TR,2SB1625
	87-A30-142-040		C-TR,DTA123EKA
	87-026-238-080		C-TR,DTC144WK<U>
	87-A30-108-010		TR,2SB1626
	87-A30-109-010		TR,2SD2495
	87-A30-214-010		TR,2SB1344
	87-A30-215-010		TR,2SD2025
	87-A30-104-080		C-TR,RT1N441C
	87-026-223-080		C-TR,DTC143TK
DIODE			
	87-A40-470-080		DIODE,1SS254
	87-A40-115-060		DIODE,RS603M<EZ>
	87-A40-509-080		ZENER,MTZJ6.8C
	87-070-274-080		DIODE,1N4003 SEM
	87-A40-341-080		ZENER,MTZJ 36 A
	87-A40-308-080		ZENER,DZ10M
	87-A40-004-080		ZENER,MTZJ16A
	87-A40-488-080		DIODE,1SS244
	87-A40-299-080		ZENER,DZ5.1M<EZ>
	87-A40-345-080		ZENER,MTZJ10C<EZ>
	87-A40-184-090		DIODE,RK34<EZ>
	87-A40-002-080		ZENER,MTZJ5.1C
	87-A40-438-080		ZENER,MTZJ4.7A
	87-A40-234-080		ZENER,MTZJ5.6A
	87-A40-116-060		RS403L-B-D-51
	87-A40-504-040		C-DIODE,KDS184
	87-070-136-080		ZENER,MTZJ5.1B
	87-A40-348-080		ZENER,MTZJ3.3A
	87-A40-442-080		ZENER,MTZJ9.1A
	87-002-225-010		DIODE,DBF40C-K10<U>
	87-A40-505-040		C-DIODE,KDS181
MAIN C.B			
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	87-010-247-080		CAP, ELECT 100-50V
C116	87-010-247-080		CAP, ELECT 100-50V
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
C122	87-010-263-080		CAP, ELECT 100-10V<U>
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
C128	87-010-394-080		CAP, ELECT 220-35V<U>
C130	87-010-194-080		CAP,CHIP 0.047<EZ>
C131	87-010-194-080		CAP,CHIP 0.047<EZ>
C151	87-010-917-090		CAP,E 3300-50 M SMG
C152	87-010-917-090		CAP,E 3300-50 M SMG
C153	87-010-928-090		CAP,E 4700-25 SMG
C154	87-010-928-090		CAP,E 4700-25 SMG<EZ>
C204	87-016-299-080		CAP, E 10-100
C205	87-010-805-080		C-CAP,1UF-16FZ<EZ>
C206	87-010-805-080		C-CAP,1UF-16FZ<EZ>
C209	87-010-546-080		CAP, ELECT 0.33-50V
C210	87-010-546-080		CAP, ELECT 0.33-50V
C211	87-010-180-080		C-CER 1500P<U>
C211	87-010-183-080		CAP,CHIP S 2700P-50 B<EZ>
C212	87-010-180-080		C-CER 1500P<U>
C212	87-010-183-080		CAP,CHIP S 2700P-50 B<EZ>
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	87-010-260-080		CAP, ELECT 47-25V
C218	87-010-260-080		CAP, ELECT 47-25V
C219	87-010-805-080		C-CAP,1UF-16FZ<EZ>
C220	87-010-805-080		C-CAP,1UF-16FZ<EZ>
C221	87-010-213-080		C-CAP,S 0.015-50 B<EZ>
C222	87-010-213-080		C-CAP,S 0.015-50 B<EZ>
C223	87-010-197-080		CAP,CHIP 0.01 DM<EZ>
C224	87-010-197-080		CAP,CHIP 0.01 DM<EZ>
C225	87-010-176-080		C-CAP,S 680P-50 SL
C226	87-010-176-080		C-CAP,S 680P-50 SL
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

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
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
C247	87-010-178-080		CAP, CHIP 1000P
C248	87-010-178-080		CAP, CHIP 1000P
C299	87-010-197-080		CAP,CHIP 0.01 DM<EZ>
C280	87-010-188-080		C-CAP,S 6800P-50 B
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
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<U>
C310	87-010-196-080		CHIP CAPACITOR,0.1-25<U>
C311	87-010-198-080		CAP, CHIP 0.022
C312	87-010-198-080		CAP, CHIP 0.022
C313	87-010-179-080		CHIP CAP S 1200P<EZ>
C313	87-010-180-080		C-CER 1500P<U>
C314	87-010-179-080		CHIP CAP S 1200P<EZ>
C314	87-010-180-080		C-CER 1500P<U>
C315	87-010-178-080		CHIP CAP 1000P<EZ>
C315	87-010-182-080		C-CAP,S 2200P-50 B<U>
C316	87-010-178-080		CHIP CAP 1000P<EZ>
C316	87-010-182-080		C-CAP,S 2200P-50 B<U>
C317	87-012-142-080		CAP,S 0.33-16<EZ>
C318	87-012-142-080		CAP,S 0.33-16<EZ>
C319	87-012-141-080		CHIP CAP,0.22-16 F<EZ>
C320	87-012-141-080		CHIP CAP,0.22-16 F<EZ>
C321	87-016-492-080		C-CAP,S 0.33-16 FZ<U>
C321	87-012-141-080		CHIP CAP,0.22-16 F<EZ>
C322	87-016-492-080		C-CAP,S 0.33-16 FZ<U>
C322	87-012-141-080		CHIP CAP,0.22-16 F<EZ>
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,S820P-50 SL<EZ>
C372	87-010-177-080		C-CAP,S820P-50 SL<EZ>
C373	87-016-083-080		C-CAP,S 0.15-16 RK<U>
C373	87-010-179-080		CAP,CHIP S B1200P<EZ>
C374	87-016-083-080		C-CAP,S 0.15-16 RK<U>
C374	87-010-179-080		CAP,CHIP S B1200P<EZ>
C375	87-010-545-080		CAP,ELECT 0.22-50V<EZ>
C376	87-010-545-080		CAP,ELECT 0.22-50V<EZ>
C378	87-010-196-080		CHIP CAPACITOR,0.1-25
C379	87-010-382-080		CAP, ELECT 22-25V<U>
C380	87-010-382-080		CAP, ELECT 22-25V<U>
C381	87-010-197-080		CAP, CHIP 0.01 DM
C382	87-010-312-080		C-CAP,S 15P-50 CH<U>
C382	87-010-318-080		C-CAP,S 47P-50 CH<EZ>
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		CHIP CAPACITOR 3300P<EZ>
C386	87-010-196-080		CHIP CAPACITOR,0.1-25
C387	87-012-145-080		CAP, CHIP S 270P CH<U>
C391	87-010-319-080		C-CAP,S 56P-50 CH<U>
C391	87-012-145-080		CAP, CHIP S 270P CH<EZ>
C392	87-010-319-080		C-CAP,S 56P-50 CH<U>
C392	87-012-145-080		CAP, CHIP S 270P CH<EZ>
C393	87-010-319-080		C-CAP,S 56P-50 CH<U>
C393	87-012-145-080		CAP, CHIP S 270P CH<EZ>
C394	87-010-319-080		C-CAP,S 56P-50 CH<U>
C394	87-012-145-080		CAP, CHIP S 270P CH<EZ>
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	87-010-404-080		CAP, ELECT 4.7-50V
C408	87-010-404-080		CAP, ELECT 4.7-50V
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	87-010-187-080		CAP CHIP S5600P
C416	87-010-187-080		CAP CHIP S5600P
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
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-50 B<EZ>
C654	87-010-318-080		C-CAP,S 47P-50 B<EZ>
C667	87-010-196-080		CHIP CAPACITOR,0.1-25
C669	87-010-322-080		C-CAP,S 100P-50 CH<EZ>
C670	87-010-322-080		C-CAP,S 100P-50 CH<EZ>
C671	87-010-322-080		C-CAP,S 100P-50 CH<EZ>
C672	87-010-322-080		C-CAP,S 100P-50 CH<EZ>
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>
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

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
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
C759	87-012-156-080		C-CAP,S 220P-50 CH<U>
C760	87-012-156-080		C-CAP,S 220P-50 CH<U>
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<U>
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<U>
C773	87-010-179-080		CAP,CHIP S B1200P<EZ>
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 4700P<EZ>
C788	87-010-186-080		CAP, CHIP 4700P<EZ>
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<U>
C793	87-010-180-080		C-CER 1500P<EZ>
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	87-010-181-080		CAP,CHIP S 1800P<U>
C797	87-010-180-080		C-CER 1500P<EZ>
C798	87-010-181-080		CAP,CHIP S 1800P<U>
C798	87-010-180-080		C-CER 1500P<EZ>
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		CAP, CHIP 0.01 DM<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		CAP, 470P<EZ>
C864	87-010-405-080		CAP,ELECT 10-50V<EZ>
C865	87-010-196-080		CHIP CAPACITOR,0.1-25<EZ>
C866	87-010-405-080		CAP,ELECT 10-50V<EZ>
C867	87-010-197-080		CAP, CHIP 0.01 DM<EZ>
C868	87-010-316-080		C-CAP,S 33P-50 CH<EZ>
C869	87-010-134-080		C-CAP,S 22P-50V<EZ>
C940	87-010-197-080		CAP, CHIP 0.01 DM
C942	87-010-151-080		C-CAP,S 7P-50 CH<EZ>

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
C947	87-010-197-080		CAP, CHIP 0.01 DM<EZ>
C949	87-014-049-080		CAP,PP 470P-100J<EZ>
C952	87-010-197-080		CAP, CHIP 0.01 DM<EZ>
C957	87-010-311-080		CAP, 12P<EZ>
C958	87-010-197-080		CAP, CHIP 0.01 DM<EZ>
C959	87-010-196-080		CHIP CAPACITOR,0.1-25
C960	87-010-196-080		CHIP CAPACITOR,0.1-25
C961	87-010-152-080		C-CAP,S 8P-50 D CH GRM<U>
CF801	87-008-261-010		FILTER, SFE10.7MA5-A<U>
CF801	87-008-423-010		FLTR,CF SFE10.7 MS3G-A<EZ>
CF802	87-008-261-010		FILTER, SFE10.7MA5-A<U>
CF802	82-785-747-010		CF,MS2 GHY R<EZ>
CON351	86-ZM3-605-010		CONN ASSY,8P-RPB<U>
FB301	87-008-372-080		FILTER,EMI BL OIRNI<EZ>
FC602	88-906-241-110		FF-CABLE,6P 1.25
FFE801	A8-8ZA-190-030		8ZA-1 FEUNM<U>
FFE801	A8-6ZA-191-130		6ZA-1 FEENM<EZ>
J211	87-A60-483-010		JACK,DIA6.3 BLK ST W/S KM
J203	87-033-240-010		TERMINAL,SP 4P32SV1-05
J601	87-A60-426-010		JACK,PIN 6P YKC21-3835
J801	87-A60-202-010		TERMINAL,ANT 4P MSP-154V-02<U>
J801	87-A60-427-010		TERMINAL,ANT 2P YKD31-0429<EZ>
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-A90-733-010		FLTR,PCFAZH-450(TOK)
L781	87-005-847-080		COIL,2.2UH(CECS)
L791	87-A50-027-010		COIL,1 POLE MPX(TOK)<EZ>
L792	87-A50-027-010		COIL,1 POLE MPX(TOK)<EZ>
L832	86-NFZ-694-080		COIL,2.2UH K CECS
L941	87-A50-020-010		COIL,ANT LW (COI)252KHZ<EZ>
L942	87-A50-019-010		COIL,OSC LW(COI)856KHZ<EZ>
L981	87-NF4-650-010		COIL,AM PACK 4N(TOK)<U>
L981	87-NF4-651-010		COIL,AM PACK 2N(TOM)<EZ>
R123	87-022-200-080		RESISTOR,METAL 0.56 1W<U>
R237	87-A00-257-080		RES,M/F 0.15-1W J
R238	87-A00-257-080		RES,M/F 0.15-1W J
R239	87-A00-257-080		RES,M/F 0.15-1W J
R240	87-A00-257-080		RES,M/F 0.15-1W J
RY101	87-A90-464-010		RELAY, DG12D2-O(M)
SFR301	87-A90-557-080		SFR,33K H HOKU<EZ>
SFR302	87-A90-557-080		SFR,33K H HOKU<EZ>
SFR303	87-A90-557-080		SFR,33K H HOKU<EZ>
SFR304	87-A90-557-080		SFR,33K H HOKU<EZ>
SFR305	87-A90-433-080		SFR,50K H NVZ6TLTA<EZ>
SFR306	87-A90-433-080		SFR,50K H NVZ6TLTA<EZ>
SFR351	87-A90-433-080		SFR,50K H NVZ6TLTA
SFR352	87-A90-433-080		SFR,50K H NVZ6TLTA
TH201	87-A90-221-010		C-THMS,100K<EZ>
TH202	87-A90-221-010		C-THMS,100K<EZ>
W104	85-NF5-628-010		F-CABLE 7P-2.5
X721	87-A70-061-010		VIB,XTAL 4.500MHZ CSA-309
X851	87-A70-091-010		VIB,XTAL 4.332MHZ CSA-309<EZ>
FRONT C.B			
C101	87-010-550-040		CAP,E 100-6.3 GAS
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	87-018-208-080		CAP 0.047-50F
C110	87-012-157-080		C-CAP,S 330P-50 CH

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
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	87-010-498-040		CAP,E 10-16 GAS
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
C124	87-010-263-040		CAP,E 100-10
C125	87-010-196-080		CHIP CAPACITOR,0.1-25
C201	87-010-178-080		CHIP CAP 1000P
C202	87-010-194-080		CAP, CHIP 0.047
C203	87-A10-797-040		CAP,E 47-35 M 5L SRM
C204	87-010-497-040		CAP,E 4.7-35 GAS
C205	87-010-497-040		CAP,E 4.7-35 GAS
C206	87-012-157-080		C-CAP,S 330P-50 CH
C207	87-012-157-080		C-CAP,S 330P-50 CH
C208	87-012-157-080		C-CAP,S 330P-50 CH
C209	87-012-157-080		C-CAP,S 330P-50 CH
C210	87-012-157-080		C-CAP,S 330P-50 CH
C211	87-012-157-080		C-CAP,S 330P-50 CH
C212	87-012-157-080		C-CAP,S 330P-50 CH
C213	87-012-157-080		C-CAP,S 330P-50 CH
C214	87-012-157-080		C-CAP,S 330P-50 CH
C215	87-012-157-080		C-CAP,S 330P-50 CH
C216	87-012-157-080		C-CAP,S 330P-50 CH
C217	87-012-157-080		C-CAP,S 330P-50 CH
C218	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	87-010-173-080		C-CAP,S 390P-50 SL
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
C601	87-010-391-040		CAP,E 10-35 SME
C602	87-010-186-080		CAP,CHIP 4700P
C603	87-010-498-040		CAP,E 10-16 GAS
C604	87-010-382-040		CAP,E 22-25 SME
C605	87-010-196-080		CHIP CAPACITOR,0.1-25
C606	87-010-322-080		C-CAP,S 100P-50 CH
C607	87-010-315-080		CHIP CAPACITOR,27P-50 J CH
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 CH<EZ>
C611	87-010-177-080		C-CAP,S 820P-50 SL
C612	87-010-176-080		C-CAP,S 680P-50 SL<EZ>
C614	87-A10-189-040		CAP,E 220-10
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
FB601	87-008-372-080		FILTER, EMI BL OIRNI
FC501	85-NF5-615-010		CABLE,FFC 15P-1.25<EZ>
FC501	88-911-201-110		FF-CABLE,11P 1.25<U>
FC502	88-918-251-110		FF-CABLE,18P 1.25
FC801	85-NF5-618-010		CABLE,FFC 13P-1.25
FL201	88-NF7-651-010		FL,BJ602GK
J601	87-A60-651-010		JACK,3.5MONO
J602	87-A60-651-010		JACK,3.5MONO
LED401	87-070-197-080		LED,SLP7118C-51-S-T1
LED403	87-070-197-080		LED,SLP7118C-51-S-T1
LED405	87-070-197-080		LED,SLP7118C-51-S-T1
LED407	87-070-197-080		LED,SLP7118C-51-S-T1
LED409	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-A40-380-080		LED,SEL6510C-TP5 GRN
LED429	87-A40-380-080		LED,SEL6510C-TP5 GRN
LED430	87-A40-380-080		LED,SEL6510C-TP5 GRN
LED431	87-A40-380-080		LED,SEL6510C-TP5 GRN
LED432	87-A40-380-080		LED,SEL6510C-TP5 GRN
LED433	87-A40-380-080		LED,SEL6510C-TP5 GRN
LED434	87-A40-380-080		LED,SEL6510C-TP5 GRN
LED435	87-A40-380-080		LED,SEL6510C-TP5 GRN
LED436	87-A40-380-080		LED,SEL6510C-TP5 GRN
LED437	87-A40-380-080		LED,SEL6510C-TP5 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
LED449	87-070-278-010		LED,SLZ-738A-24-S
LED450	87-A90-825-040		LED,SLP-9131 RED
LED451	87-A90-825-040		LED,SLP-9131 RED
LED453	87-A90-825-040		LED,SLP-9131 RED
LED454	87-A90-825-040		LED,SLP-9131 RED
LED455	87-A90-825-040		LED,SLP-9131 RED
LED456	87-A90-825-040		LED,SLP-9131 RED
LED457	87-A90-825-040		LED,SLP-9131 RED
LED458	87-A90-825-040		LED,SLP-9131 RED
LED459	87-A90-825-040		LED,SLP-9131 RED
S101	87-A90-791-010		SW,RTRY EC16B12204 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<EZ>
S314	87-A90-095-080		SW,TACT EVQ11G04M<EZ>
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
S331	87-A90-095-080		SW,TACT EVQ11G04M<EZ>
S332	87-A90-095-080		SW,TACT EVQ11G04M<EZ>
S333	87-A90-095-080		SW,TACT EVQ11G04M<EZ>
S334	87-A90-095-080		SW,TACT EVQ11G04M
S335	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

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
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			
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
PRO C.B			
C101	87-012-368-080		C-CAP,S 0.1-50 Z F
C102	87-012-368-080		C-CAP,S 0.1-50 Z F
C103	87-010-917-090		CAP,E 3300-50 M SMG
C104	87-010-917-090		CAP,E 3300-50 M SMG
C105	87-010-196-080		C-CAP,S 0.1-25 Z F
C106	87-010-196-080		C-CAP,S 0.1-25 Z F
C109	87-010-188-080		C-CAP,S 6800P-50 K B
C112	87-012-368-080		C-CAP,S 0.1-50 FZ
C113	87-012-368-080		C-CAP,S 0.1-50 FZ
C207	87-010-402-080		CAP,E 2.2-50 M SME
C208	87-010-402-080		CAP,E 2.2-50 M SME
C209	87-010-183-080		C-CAP,S 2700P-50 K B
C210	87-010-183-080		C-CAP,S 2700P-50 K B
C211	87-010-404-080		CAP,E 4.7-50 M SME
C212	87-010-404-080		CAP,E 4.7-50 M SME
C215	87-010-322-080		C-CAP,S 100P-50 J CH GRM
C216	87-010-322-080		C-CAP,S 100P-50 J CH GRM
C217	87-010-408-080		CAP,E 47-50 M SME
C218	87-010-408-080		CAP,E 47-50 M SME
C219	87-A10-596-080		C-CAP,S 100P-100 J CH
C220	87-A10-596-080		C-CAP,S 100P-100 J CH
C221	87-A10-899-080		CAP,E 47-25 M BP
C222	87-A10-899-080		CAP,E 47-25 M BP
C223	87-010-544-080		CAP,E 0.1-50 M SME
C224	87-010-544-080		CAP,E 0.1-50 M SME
C225	87-010-993-080		C-CAP,S 0.056-25 K B
C226	87-010-993-080		C-CAP,S 0.056-25 K B
C227	87-010-196-080		C-CAP,S 0.1-25 Z F
C228	87-010-196-080		C-CAP,S 0.1-25 Z F
C233	87-010-263-080		CAP,E 100-10 SME
C234	87-010-263-080		CAP,E 100-10 SME
C307	87-010-402-080		CAP,E 2.2-50 M SME
C309	87-010-183-080		C-CAP, 2700P-50 K B
C311	87-010-404-080		CAP,E 4.7-50 M SME
C315	87-010-322-080		C-CAP,S 100P-50 J CH GRM
C317	87-010-406-080		CAP,E 22-50 M SME
C319	87-A10-812-080		C-CAP,S 220P-200 J C
C321	87-A10-899-080		CAP,E 47-25 M BP
C323	87-010-544-080		CAP,E 0.1-50 M SME
C325	87-010-993-080		C-CAP,S 0.056-25 K B
C327	87-010-196-080		C-CAP,S 0.1-25 Z F
C333	87-010-263-080		CAP,E 100-10 SME
C400	87-010-378-080		CAP,E 10-16 M SME
C401	87-010-374-080		CAP,E 47-10 M SME
C402	87-010-196-080		C-CAP,S 0.1-25 Z F
C403	87-010-154-080		C-CAP,S 10P-50 D CH
C404	87-010-374-080		CAP,E 47-10 M SME
C405	87-010-196-080		C-CAP,S 0.1-25 Z F
C407	87-010-154-080		C-CAP,S 10P-50 D CH
C408	87-010-545-080		CAP,E 0.22-50 M SME
C410	87-010-546-080		CAP,E 0.33-50 SME
C413	87-010-196-080		C-CAP,S 0.1-25 Z F

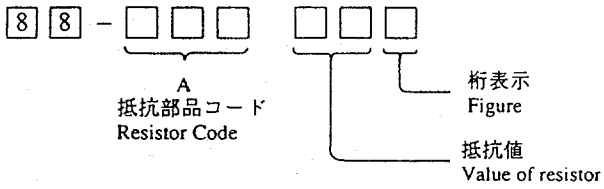
REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
C415	87-010-400-080		CAP,E 0.47-50 M SME
C416	87-010-400-080		CAP,E 0.47-50 M SME
C418	87-010-401-080		CAP,E 1-50 M SME
C419	87-010-260-080		CAP,E 47-25 SME
C421	87-010-378-080		CAP,E 10-16 M SME
C422	87-010-378-080		CAP,E 10-16 M SME
C501	87-010-176-080		C-CAP,S 680P-50 J SL
C502	87-010-176-080		C-CAP,S 680P-50 J SL
C503	87-A10-804-080		C-CAP,S 0.1-25 J B
C504	87-A10-804-080		C-CAP,S 0.1-25 J B
C505	87-A10-804-080		C-CAP,S 0.1-25 J B
C506	87-A10-804-080		C-CAP,S 0.1-25 J B
C509	87-010-112-080		CAP,E 100-16 M SME
C510	87-010-221-080		CAP,E 470-10 M SME
C511	87-A10-891-080		CAP,E 4.7-25 SME(K)
C512	87-A10-800-080		C-CAP,S 6800P-16 J B
C513	87-010-374-080		CAP,E 47-10 M SME
C514	87-010-196-080		C-CAP,S 0.1-25 Z F
C515	87-010-401-080		CAP,E 1-50 M SME
C516	87-010-401-080		CAP,E 1-50 M SME
C518	87-010-546-080		CAP,E 0.33-50 SME
C519	87-010-400-080		CAP,E 0.47-50 M SME
C520	87-010-546-080		CAP,E 0.33-50 SME
C521	87-010-546-080		CAP,E 0.33-50 SME
C522	87-018-209-080		CAP,TC U 0.1-50 Z F
C524	87-010-374-080		CAP,E 47-10 M SME
C526	87-010-196-080		C-CAP,S 0.1-25 Z F
C530	87-010-544-080		CAP,E 0.1-50 M SME
C531	87-010-546-080		CAP,E 0.33-50 SME
C532	87-010-971-080		C-CAP,S 4700P-50 J B
C533	87-012-349-080		C-CAP,S 1000P-50 J CH
C538	87-010-971-080		C-CAP,S 4700P-50 J B
C539	87-012-349-080		C-CAP,S 1000P-50 J CH
C540	87-010-401-080		CAP,E 1-50 M SME
C541	87-010-401-080		CAP,E 1-50 M SME
C542	87-A10-799-080		C-CAP,S 5600P-16 J B
C543	87-A10-802-080		C-CAP,S 0.047-16 J B
C544	87-A10-229-080		C-CAP,S 0.68-10 K
C545	87-012-393-080		C-CAP,S 0.22-16 K
C546	87-012-393-080		C-CAP,S 0.22-16 K
C547	87-010-404-080		CAP,E 4.7-50 M SME
C548	87-010-404-080		CAP,E 4.7-50 M SME
C549	87-012-393-080		C-CAP,S 0.22-16 K
C550	87-012-393-080		C-CAP,S 0.22-16 K
C551	87-016-081-080		C-CAP,S 0.1-16 K R
C552	87-A10-802-080		C-CAP,S 0.047-16 J B
C553	87-A10-802-080		C-CAP,S 0.047-16 J B
C554	87-016-081-080		C-CAP,S 0.1-16 K R
C555	87-016-081-080		C-CAP,S 0.1-16 K R
C556	87-A10-801-080		C-CAP,S 0.022-16 J B
C557	87-A10-801-080		C-CAP,S 0.022-16 J B
C558	87-016-081-080		C-CAP,S 0.1-16 K R
C579	87-010-402-080		CAP,E 2.2-50 M SME
C580	87-010-402-080		CAP,E 2.2-50 M SME
C581	87-010-196-080		C-CAP,S 0.1-25 ZF
C601	87-010-196-080		C-CAP,S 0.1-25 Z F
C602	87-010-196-080		C-CAP,S 0.1-25 Z F
C603	87-010-196-080		C-CAP,S 0.1-25 Z F
C604	87-010-196-080		C-CAP,S 0.1-25 Z F
J201	87-A60-561-010		JACK,PIN 4P W/R,B/O
J601	87-A60-562-010		JACK,PIN 6P W/R
L201	87-003-383-010		COIL,1UH K
L202	87-003-383-010		COIL,1UH K
L301	87-003-383-010		COIL,1UH K
R243	87-A00-258-080		RES,M/F 0.22-1W J
R244	87-A00-258-080		RES,M/F 0.22-1W J
R245	87-A00-258-080		RES,M/F 0.22-1W J
R246	87-A00-258-080		RES,M/F 0.22-1W J
R343	87-A00-258-080		RES,M/F 0.22-1W J
R345	87-A00-258-080		RES,M/F 0.22-1W J

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
R509	87-022-214-080		C-RES,S 100K-1/10W F
AC1 C.B			
⚠ F101	87-035-490-010		FUSE,5A 125V T 237<U>
⚠ F101	87-035-367-010		FUSE,3.15A 250 VT <EZ>
⚠ FC101	87-A90-505-080		FUSE CLAMP,TP00351-51
⚠ FC102	87-A90-505-080		FUSE CLAMP,TP00351-51
⚠ PT101	88-NFU-661-010		PT,8NF-U U<U>
⚠ PT101	88-NFU-665-010		PT,8NF-U EZ<EZ>
⚠ T101	87-A60-317-010		TERMINAL, 1P MSC
⚠ T102	87-A60-317-010		TERMINAL, 1P MSC
AC2 C.B			
⚠ PR101	87-026-682-080		PROTECTOR,10A 60V491<EZ>
⚠ PR101	87-026-691-080		FUSE,10A 125V 251<U>
⚠ PR102	87-026-682-080		PROTECTOR,10A 60V491<EZ>
⚠ PR102	87-026-691-080		FUSE,10A 125V 251<U>
⚠ PR103	87-026-682-080		PROTECTOR,10A 60V491<EZ>
⚠ PR103	87-026-691-080		FUSE,10A 125V 251<U>
⚠ PR104	87-026-682-080		PROTECTOR,10A 60V491<EZ>
⚠ PR104	87-026-691-080		FUSE,10A 125V 251<U>
⚠ PR105	87-A90-195-080		PROTECTOR,7A 491 SERIES 60V<EZ>
⚠ PR105	87-A90-210-080		FUSE,7A 125V 251<U>
⚠ PR106	87-A90-195-080		PROTECTOR,7A 491 SERIES 60V<EZ>
⚠ PR106	87-A90-210-080		FUSE,7A 125V 251<U>

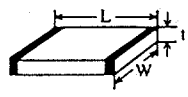
REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
DECK C.B			
CON105	87-099-756-019		CONN, 15P 9604 S F<EZ>
CON105	87-099-753-019		CONN, 11P H 9604<U>
SFR1	87-024-581-019		SFR,3.3K DIA 6H
SOL1	82-ZM1-618-410		SOL ASSY, 27
SOL2	82-ZM1-618-410		SOL ASSY, 27
SW1	87-A90-248-019		SW,MICRO ESE11SH2CXQ
SW2	87-A90-248-019		SW,MICRO ESE11SH2CXQ
SW3	87-A90-248-019		SW,MICRO ESE11SH2CXQ
SW4	87-036-110-010		SW,MICRO SPPB62<EZ>
SW4	87-A90-248-019		SW,MICRO ESE11SH2CXQ<U>
SW5	87-036-110-010		SW,MICRO SPPB62<EZ>
SW5	87-A90-248-019		SW,MICRO ESE11SH2CXQ<U>
SW6	87-036-110-010		SW,MICRO SPPB62<EZ>
SW8	87-A90-248-019		SW,MICRO ESE11SH2CXQ<EZ>
SW9	87-A90-248-019		SW,MICRO ESE11SH2CXQ<EZ>
W001	82-ZM3-601-019		RBN,CORD,4P-75
HEAD-1 C.B			
CON301	85-MA2-615-010		CON ASSY,3P-PB<U>
HEAD-2 C.B			
CON351	87-NF6-616-010		CONN ASSY,8P-RPB<EZ>

○ 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

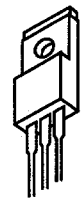
容量 Wattage	種類 Type	許容誤差 Tolerance	記号 Symbol	寸法／Dimensions (mm) 外形／Form	L	W	t	抵抗コード ：A Resistor Code: A
1／16W	1608	±5%	CJ		1.6	0.8	0.45	108
1／10W	2125	±5%	CJ		2	1.25	0.45	118
1／8W	3216	±5%	CJ		3.2	1.6	0.55	128

TRANSISTOR ILLUSTRATION

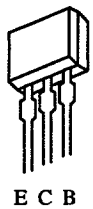
KTA1266GR
KTC3198GR

CC5551

2SA1296

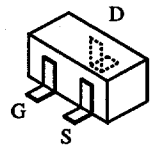


2SB1344
2SB1370
2SB1625
2SB1626
2SD2025
2SD2494
2SD2495



2SA933
2SC4115

2SK3053



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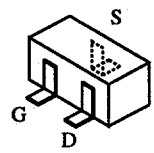
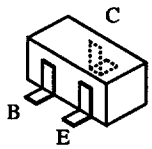


2SK543-TB(4/5)

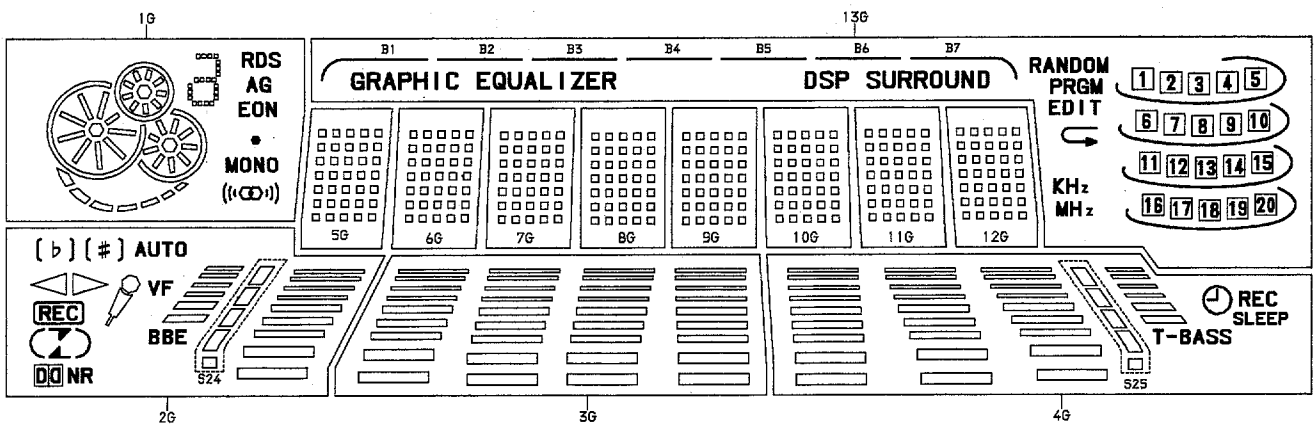


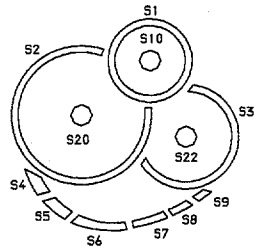
2SA1235F	DTC143TK
2SC2714	DTC144WK
2SC3052F	RN1410
CMBT5401	RT1N141C
CMBT5551	RT1N144C
CSA1362GR	RT1N441C
CSD1306E	RT1P141C
DTA123EKA	RT1P144C
DTA123JK	RT1P441C

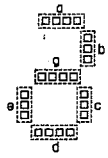
FL GRID ASSIGNMENT & ANODE CONNECTION

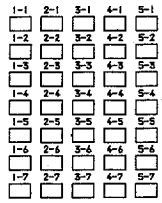
FL, BJ602GK

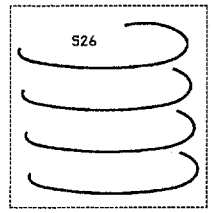
GRID ASSIGNMENT

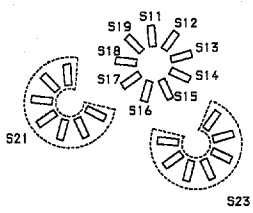




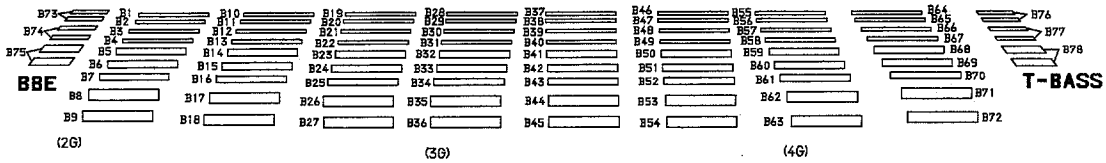








(1G)

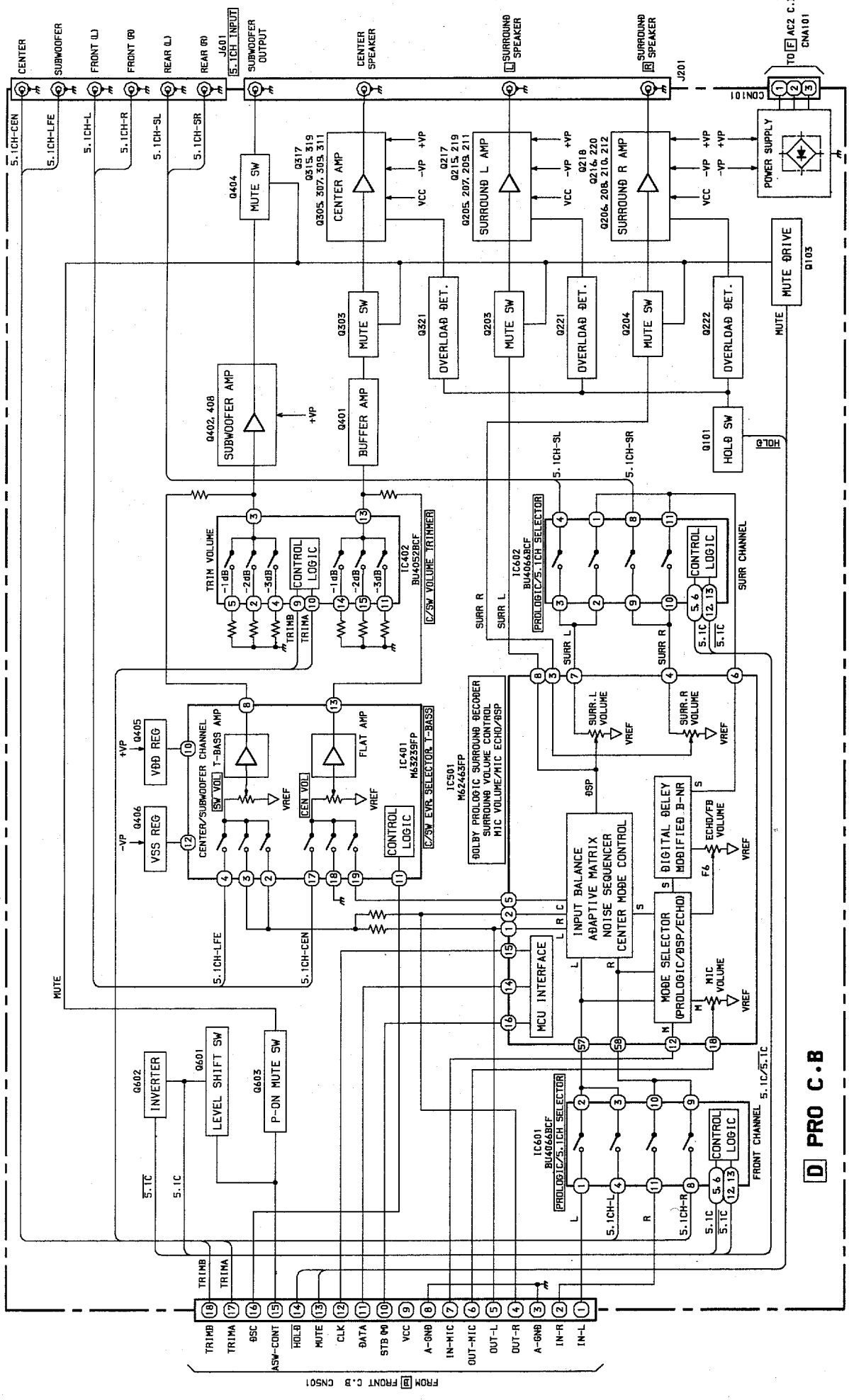


ANODE CONNECTION

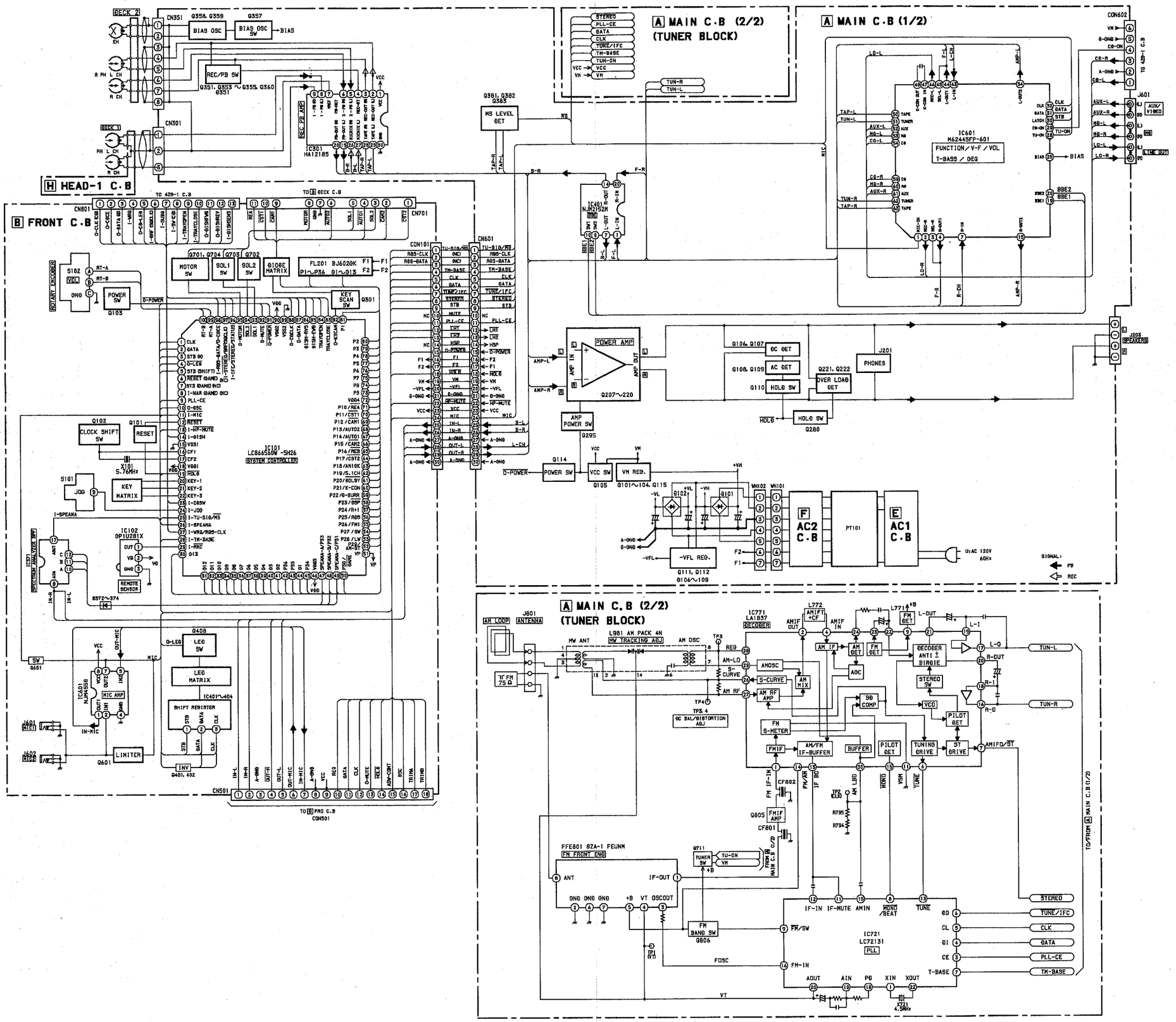
	1G	2G	3G	4G	5G-12G	13G
P1	**EON**	B9	B45	**REC**	1-1	**DSP SURROUND**
P2	**AG**	**DD NR**	B36	B72	2-1	**GRAPHIC EQUALIZER**
P3	●	**BBE**	B27	B63	3-1	B7
P4	**MONO**	S24	B18	B54	4-1	B6
P5	((CD))	B8	B44	⏲	5-1	B5
P6	**RDS**	☾	B35	B71	1-2	B4
P7	b	⇄	B26	B62	2-2	B3
P8	c	☽	B17	B53	3-2	B2
P9	a, d, g	B7	B43	**SLEEP**	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**

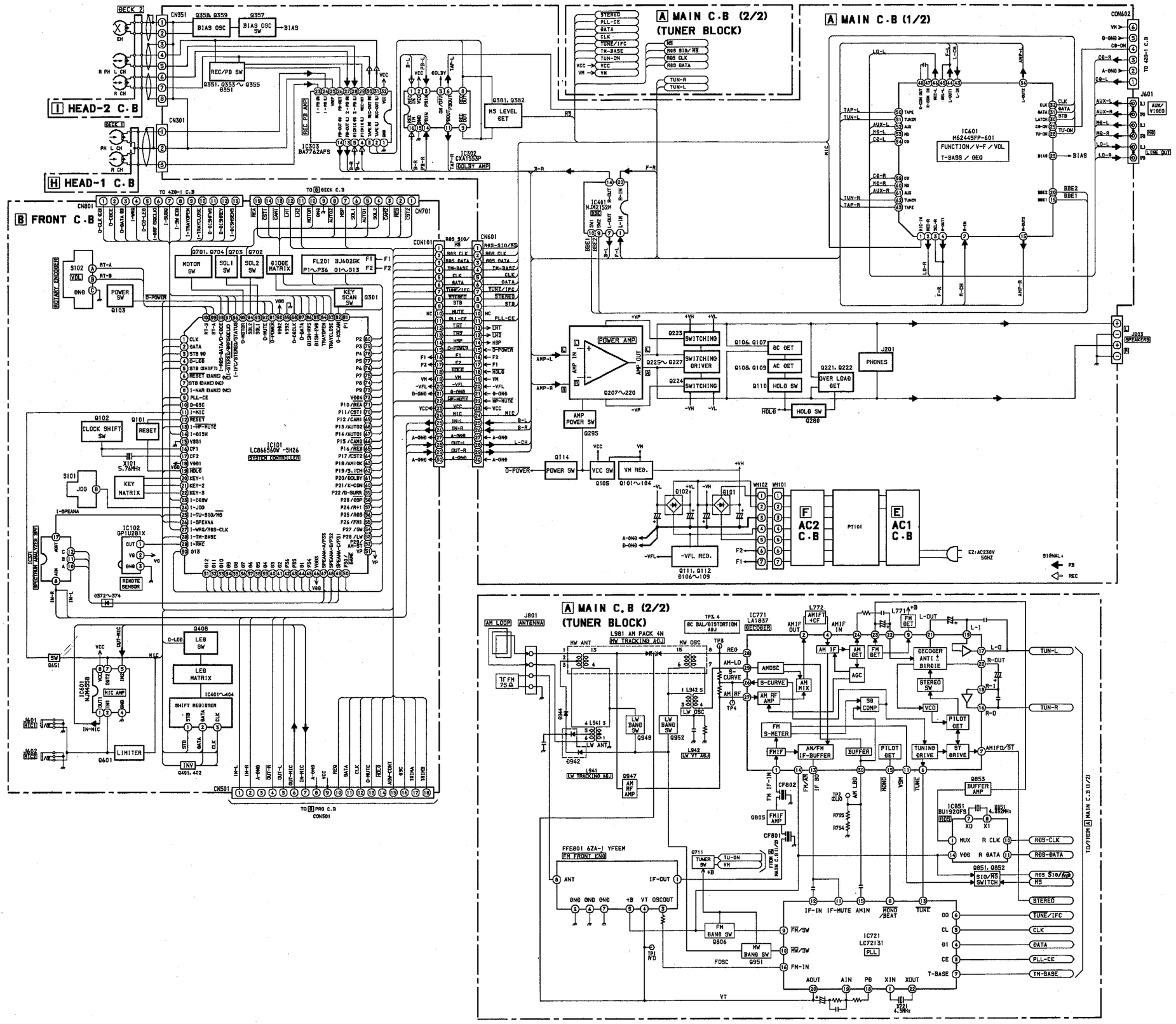
BLOCK DIAGRAM – 1 (PRO)

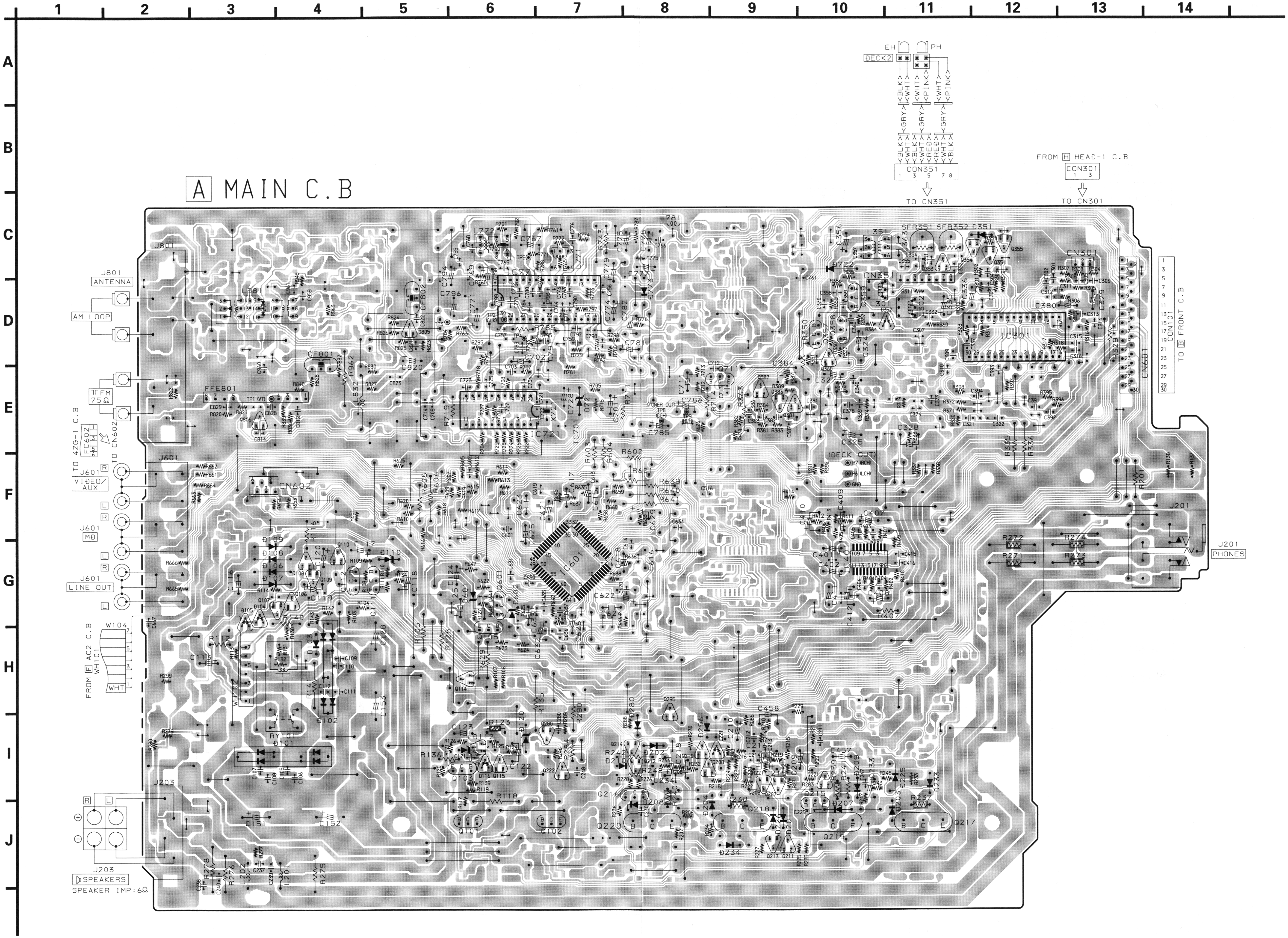


BLOCK DIAGRAM – 2 (U : MAIN / FRONT)

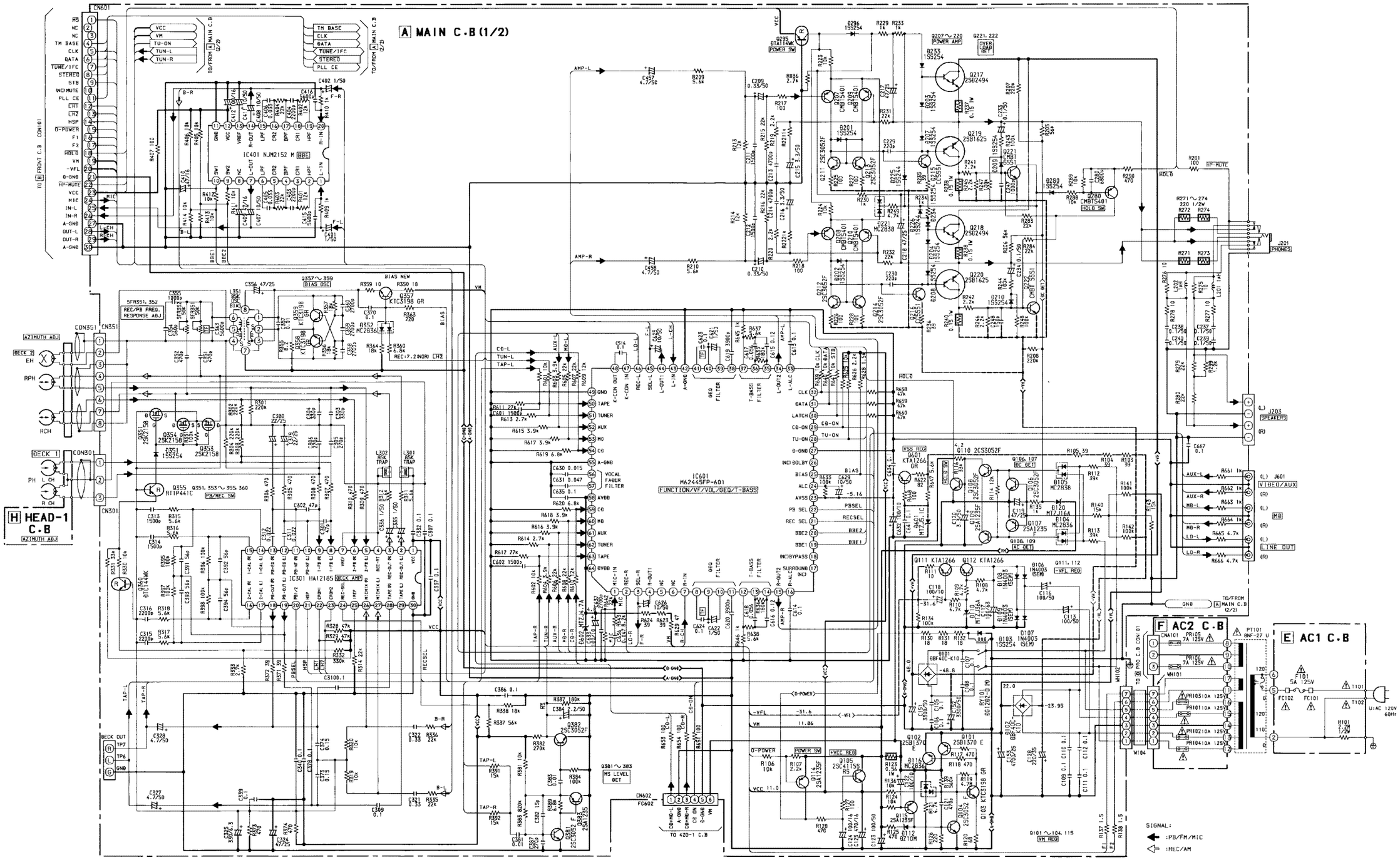


BLOCK DIAGRAM – 3 (EZ : MAIN / FRONT)



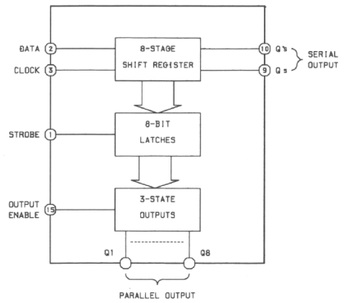

A MAIN C.B
DECK2
EH
PH
CON351
TO CN351
FROM H HEAD-1 C.B
CON301
TO CN301
J801
ANTENNA
AM LOOP
FM 75Ω
TO 4Z6-1 C.B
TO CN602
J601
VIDEO/AUX
J601
MD
J601
LINE OUT
FROM F AC2 C.B
W104
WH101
WHT
J203
SPEAKERS
SPEAKER IMP:6Ω
CN101
TO B FRONT C.B
J201
PHONES
IC601
IC301
IC721
IC771
(DECK OUT)
(TUNER OUT)

SCHEMATIC DIAGRAM – 1 (U : MAIN 1 / 2)



IC BLOCK DIAGRAM – 1

IC, BU4094BCF

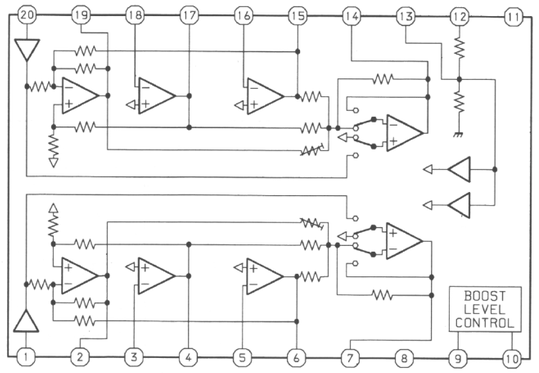


TRUTH TABLE

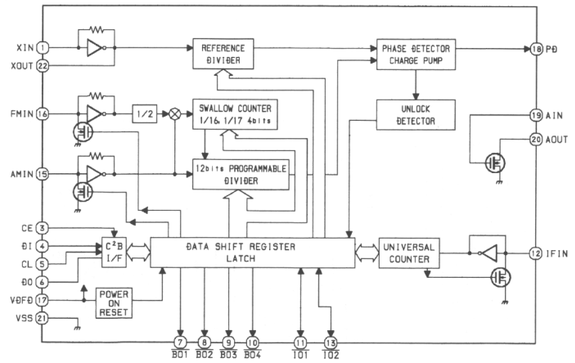
CLOCK	OUTPUT ENABLE	STROBE	DATA	PARALLEL OUTPUTS		SERIAL OUTPUTS	
				Q1	Qn	Qs	Q's
↓	L	×	×	Z	Z	Q7	NO Chg.
↑	L	×	×	Z	Z	No Chg.	Qs
↓	H	L	×	No Chg.	No Chg.	Q7	No Chg.
↓	H	H	L	L	Qn-1	Q7	No Chg.
↓	H	H	H	H	Qn-1	Q7	No Chg.
↑	H	×	×	No Chg.	No Chg.	No Chg.	Qs

Z=High Impedance
X=Don't Care

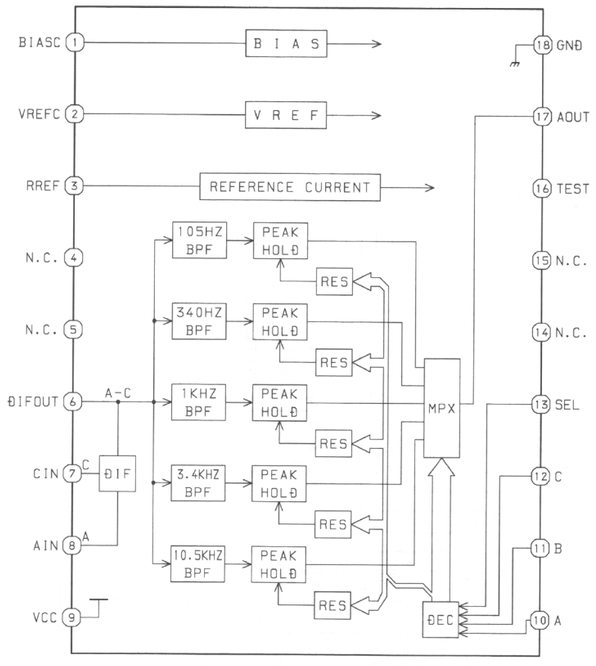
IC, NJM2152M



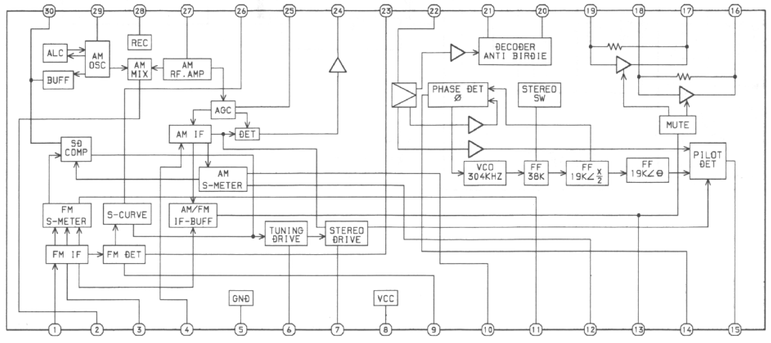
IC, LC72131D



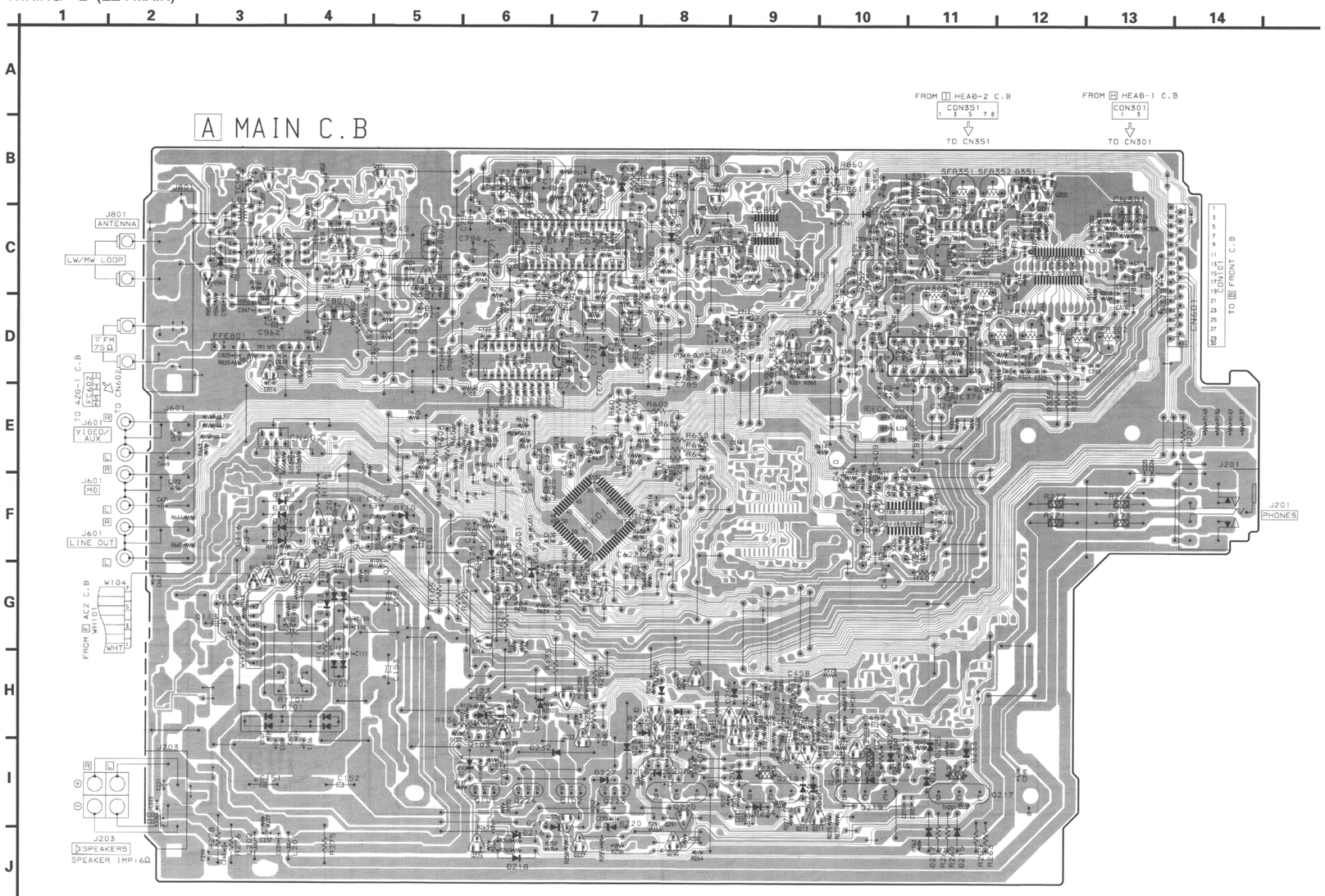
IC, BA3835S



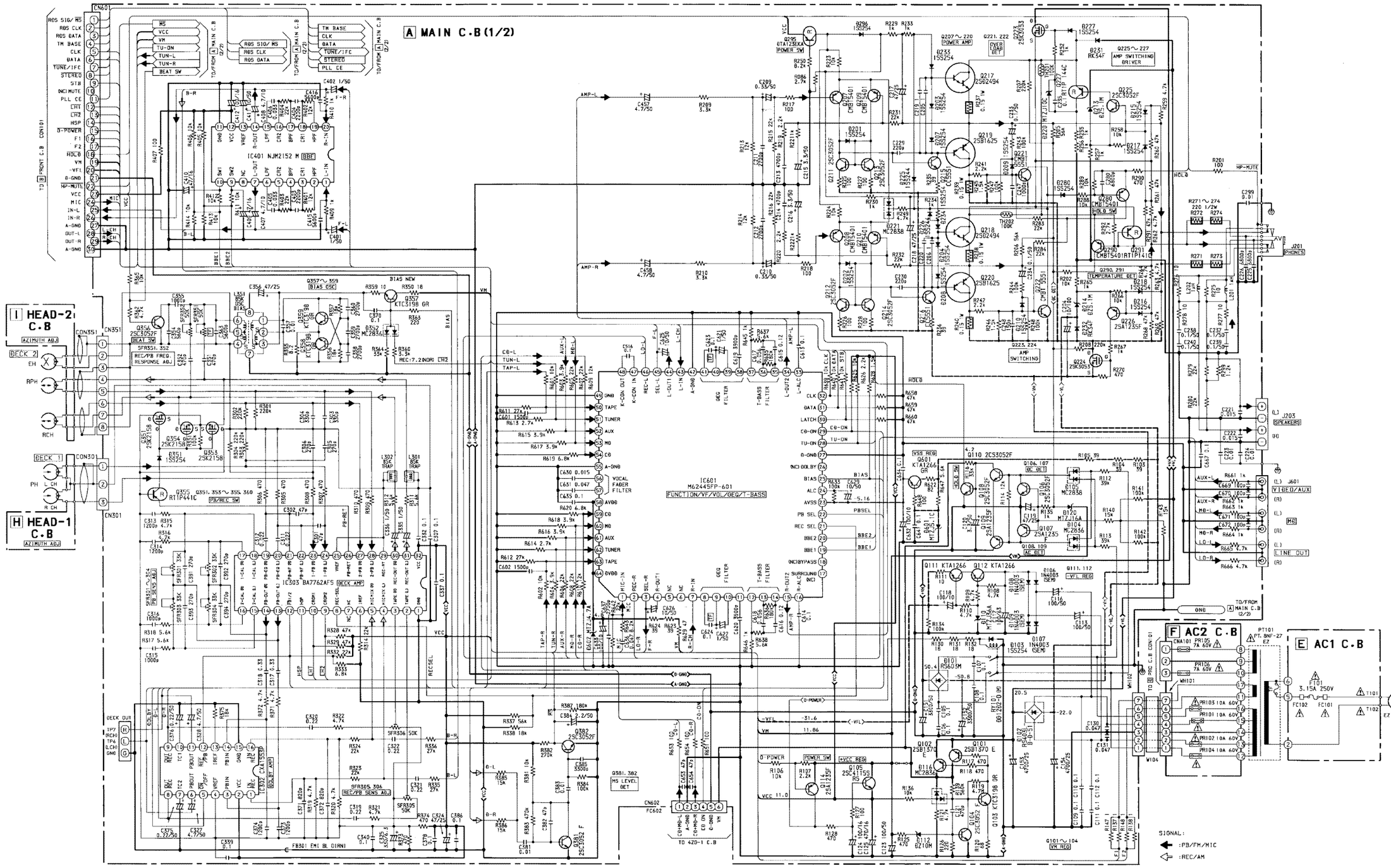
IC, LA1837

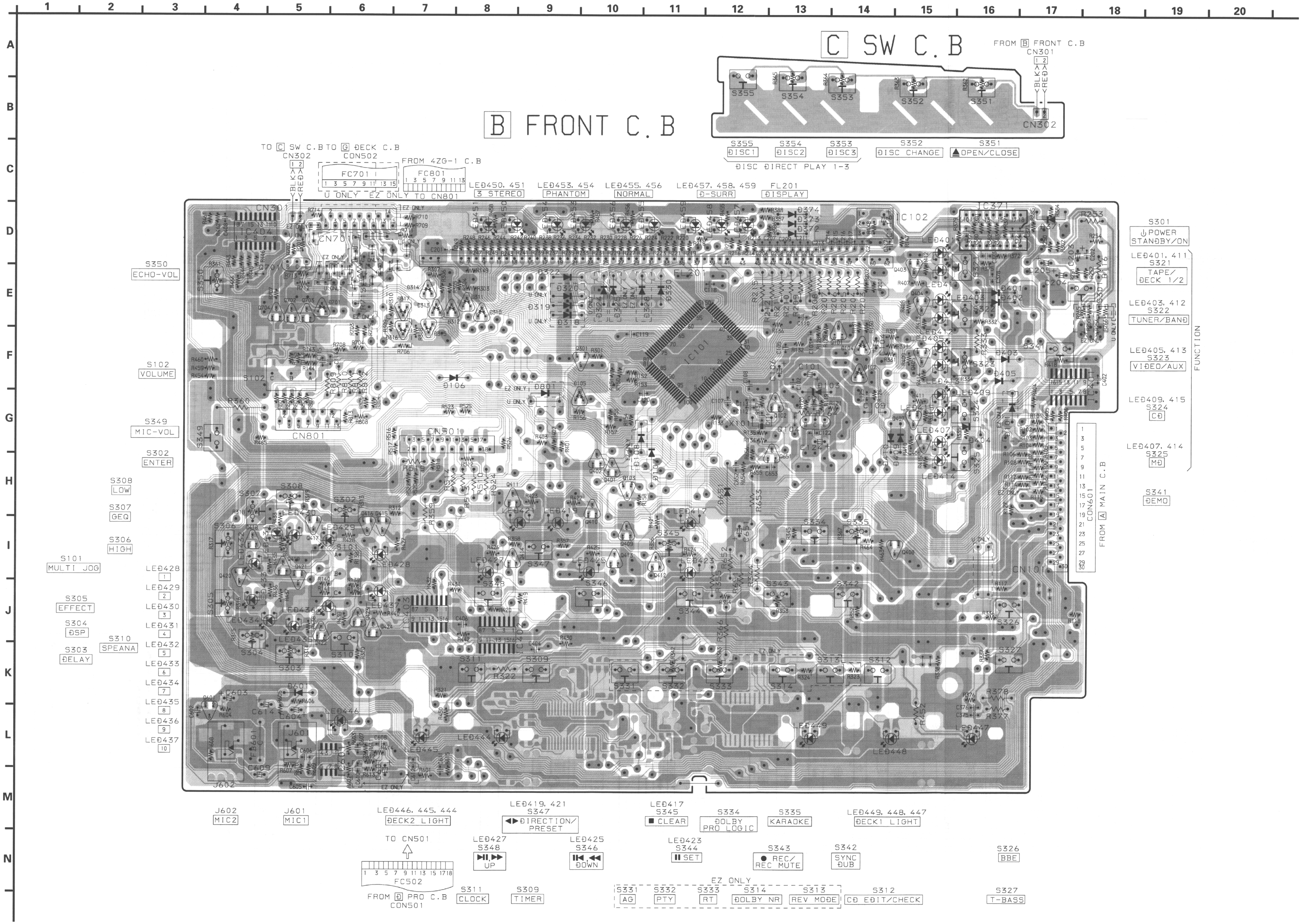


WIRING – 2 (EZ : MAIN)

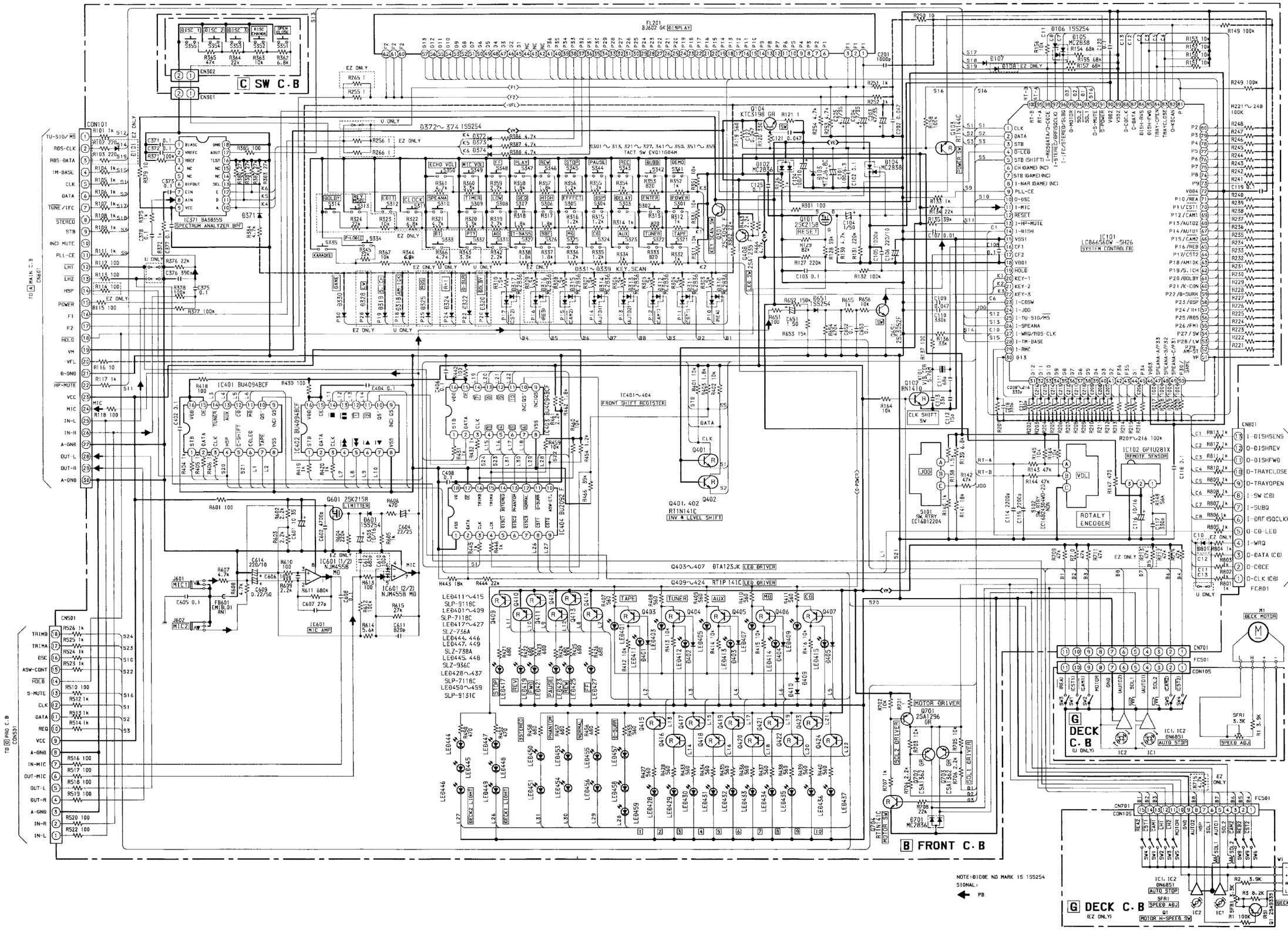


SCHEMATIC DIAGRAM – 2 (EZ : MAIN 1 / 2)



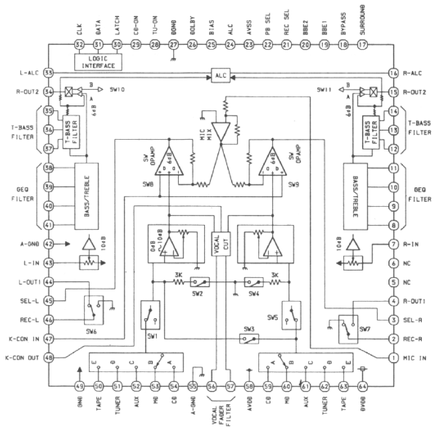


C SW C.B
FROM B FRONT C.B CN301
CN302
S355 ÐISC1
S354 ÐISC2
S353 ÐISC3
S352 ÐISC CHANGE
S351 ▲OPEN/CLOSE
ÐISC ÐIRECT PLAY 1-3
B FRONT C.B
TO C SW C.B CN302
TO G ÐECK C.B CON502
FROM 4ZG-1 C.B
FC701
FC801
U ONLY
EZ ONLY
TO CN801
LEÐ450, 451 3 STEREO
LEÐ453, 454 PHANTOM
LEÐ455, 456 NORMAL
LEÐ457, 458, 459 Ð-SURR
FL201 ÐISPLAY
S301 POWER STANÐBY/ON
LEÐ401, 411 S321 TAPE/ÐECK 1/2
LEÐ403, 412 S322 TUNER/BANÐ
LEÐ405, 413 S323 VIÐEO/AUX
LEÐ409, 415 S324 CÐ
LEÐ407, 414 S325 MÐ
FUNCTION
S341 ÐEMO
CON601
FROM A MAIN C.B
S350 ECHO-VOL
S102 VOLUME
S349 MIC-VOL
S302 ENTER
S308 LOW
S307 GEQ
S306 HIGH
S101 MULTI JOG
S305 EFFECT
S304 ÐSP
S310 SPEANA
S303 ÐELAY
LEÐ428 1
LEÐ429 2
LEÐ430 3
LEÐ431 4
LEÐ432 5
LEÐ433 6
LEÐ434 7
LEÐ435 8
LEÐ436 9
LEÐ437 10
IC101
IC102
IC371
CN501
CN801
CN701
J602 MIC2
J601 MIC1
LEÐ446, 445, 444 ÐECK2 LIGHT
LEÐ419, 421 S347 ◀▶ÐIRECTION/PRESET
LEÐ417 S345 ■ CLEAR
S334 ÐOLBY PRO LOGIC
S335 KARAOKE
LEÐ449, 448, 447 ÐECK1 LIGHT
TO CN501
FC502
FROM D PRO C.B CON501
LEÐ427 S348 ▶II ▶▶ UP
LEÐ425 S346 I◀◀ ◀◀ ÐOWN
LEÐ423 S344 II SET
S343 ● REC/REC MUTE
S342 SYNC ÐUB
S326 BBE
S311 CLOCK
S309 TIMER
EZ ONLY
S331 AG
S332 PTY
S333 RT
S314 ÐOLBY NR
S313 REV MODE
S312 CÐ EÐIT/CHECK
S327 T-BASS

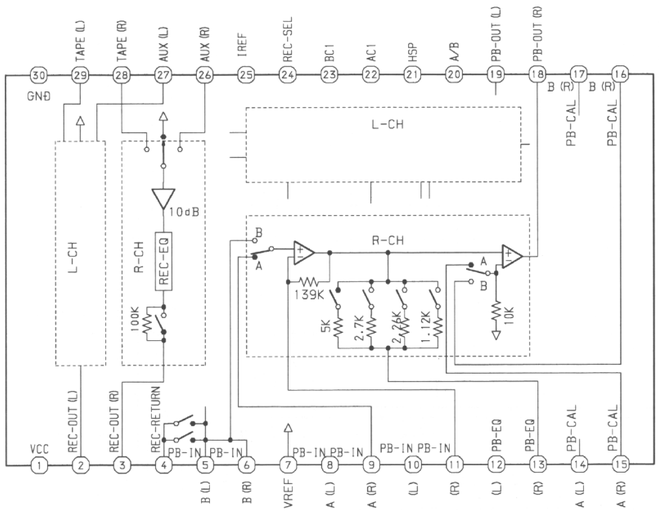

C SW C.B
B FRONT C.B
G DECK C.B
(EZ ONLY)
G DECK C.B
(U ONLY)
IC101 LC866560W -5H26
SYSTEM CONTROLLER
FL201 8J607 GK DISPLAY
IC401 BU4094BCF
IC402 BU4094BCF
IC404 BU2092 F
IC601 (1/2) NJM4558 MD
IC601 (2/2) NJM4558 MD
IC371 BA5835S
SPECTRUM ANALYZER BPF
IC102 6P1U281X
REMOTE SENSOR
IC401~404
FRONT SHIFT REGISTER
Q401, 402
RTIN141C
INV & LEVEL SHIFT
Q403~407 DTA123JK LED DRIVER
Q409~424 RTIP141C LED DRIVER
Q601 2SK2158
LIMITER
Q701 2SA1296
MOTOR DRIVER
Q704 RTIN141C
MOTOR SW
D372~374 1SS254
D531~539 KEY SCAN
D601 1SS254
D701 MC2836L
D102 MC2838
D104 MC2838
D105 MC2838
D106 1SS254
D107
D108 EZ ONLY
D801 1SS254
CN101
CN301
CN302
CN401
CN501
CN701
CN801
FC501
FC801
CON101
CON105
CON501
TO A MAIN C.B
TO B PRO C.B
TO G DECK C.B
TO B FRONT C.B
TO C SW C.B
ROTALY ENCODER
JOG
VOL
CLK SHIFT SW
POWER SW
RESET
KEY SCAN SW
LED SW
SW302 DISC 1
SW303 DISC 2
SW304 DISC 3
SW305 DISC CHANGE
SW306 OPEN CLOSE
SW307 DOLBY
SW308 REV MODE
SW309 EDIT
SW310 CLOCK
SW311 SPEANA
SW312 TIMER
SW313 LOW
SW314 GEQ
SW315 HIGH
SW316 EFFECT
SW317 BSP
SW318 DELAY
SW319 REC
SW320 ENTER
SW321 POWER
SW322 BUBB
SW323 DEMO
SW324 P-CHG
SW325 KARAOKE
SW326 ECHO VOL
SW327 MIC VOL
SW328 EZ
SW329 PLAY
SW330 REV
SW331 STOP
SW332 PAUSE
SW333 REC
SW334 T-BASS
SW335 BBF
SW336 MID
SW337 C.E
SW338 AUX
SW339 TUNER
SW340 TAPE
SW341 PTY
SW342 AF
SW343 RT
SW344 M.B
SW345 CD
SW346 A-SURR
SW347 DOLBY
SW348 AM-1OK
SW349 FM
SW350 A-SURR
SW351 BREAK
SW352 CAM1
SW353 CAM2
SW354 AUTO1
SW355 AUTO2
SW356 REAL
SW357 CAM1
SW358 CAM2
SW359 REAL
SW360 CAM1
SW361 CAM2
SW362 6.8k
SW363 10k
SW364 22k
SW365 47k
SW501 EC16B12204
SW801 EC16B2204HD-20-X
LED401~409 SLP-9118C
LED411~415 SLP-9118C
LED417~427 SLP-7118C
LED428~437 SLP-7118C
LED439~459 SLP-9131C
LED444,446 SLZ-736A
LED447,449 SLZ-738A
LED445,448 SLZ-936C
LED450~459 SLP-9131C
J401 MIC1
J402 MIC2
J601 MIC
J602 MIC
EZ ONLY
U ONLY
NOTE:B106E NO MARK IS 1SS254
SIGNAL:
PB

IC BLOCK DIAGRAM – 2

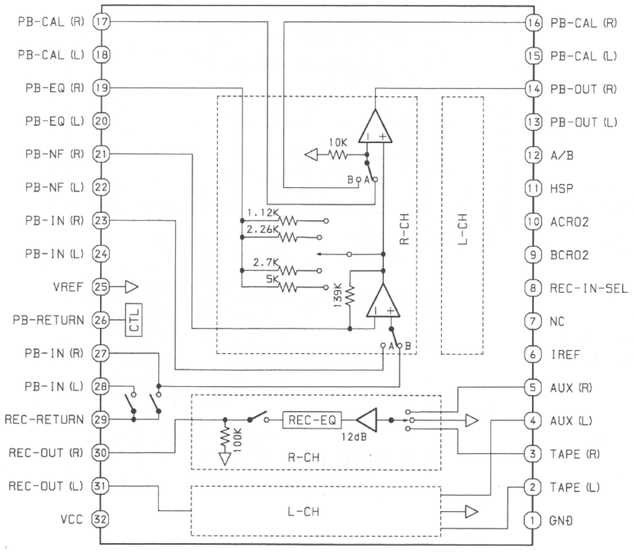
IC, M62445FP-601



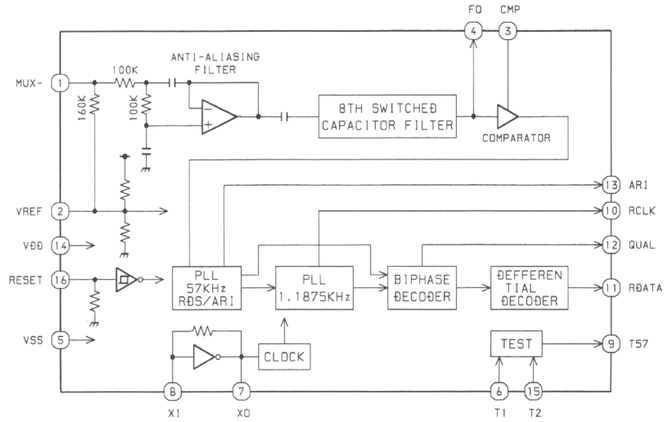
IC, HA12185NT



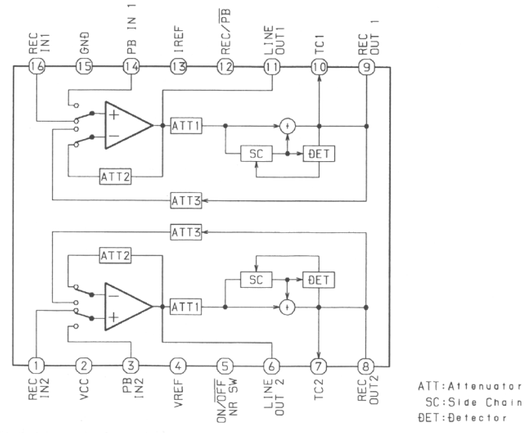
IC, BA7762AFS



IC, BU1920FS

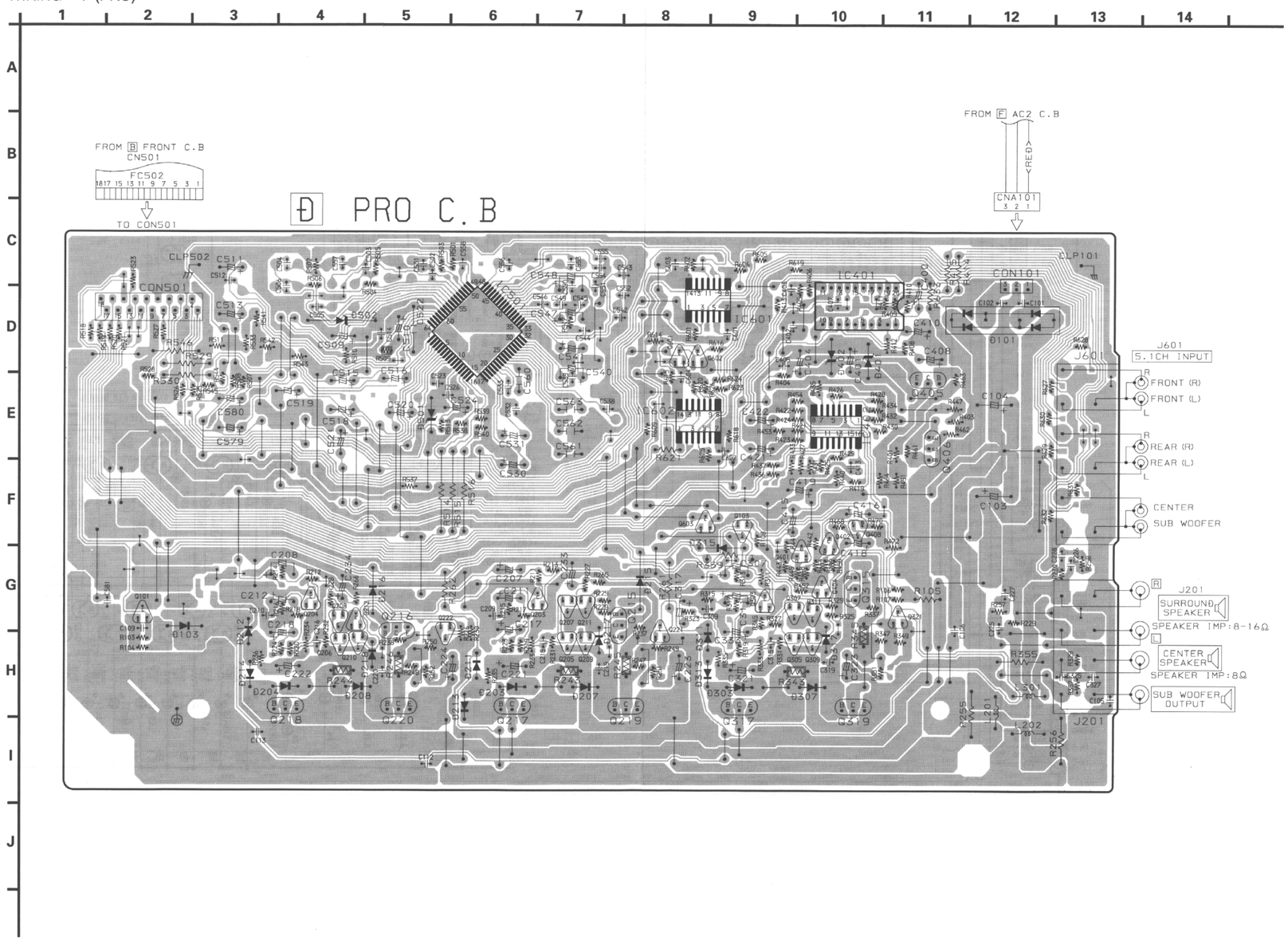


IC, CXA1533P

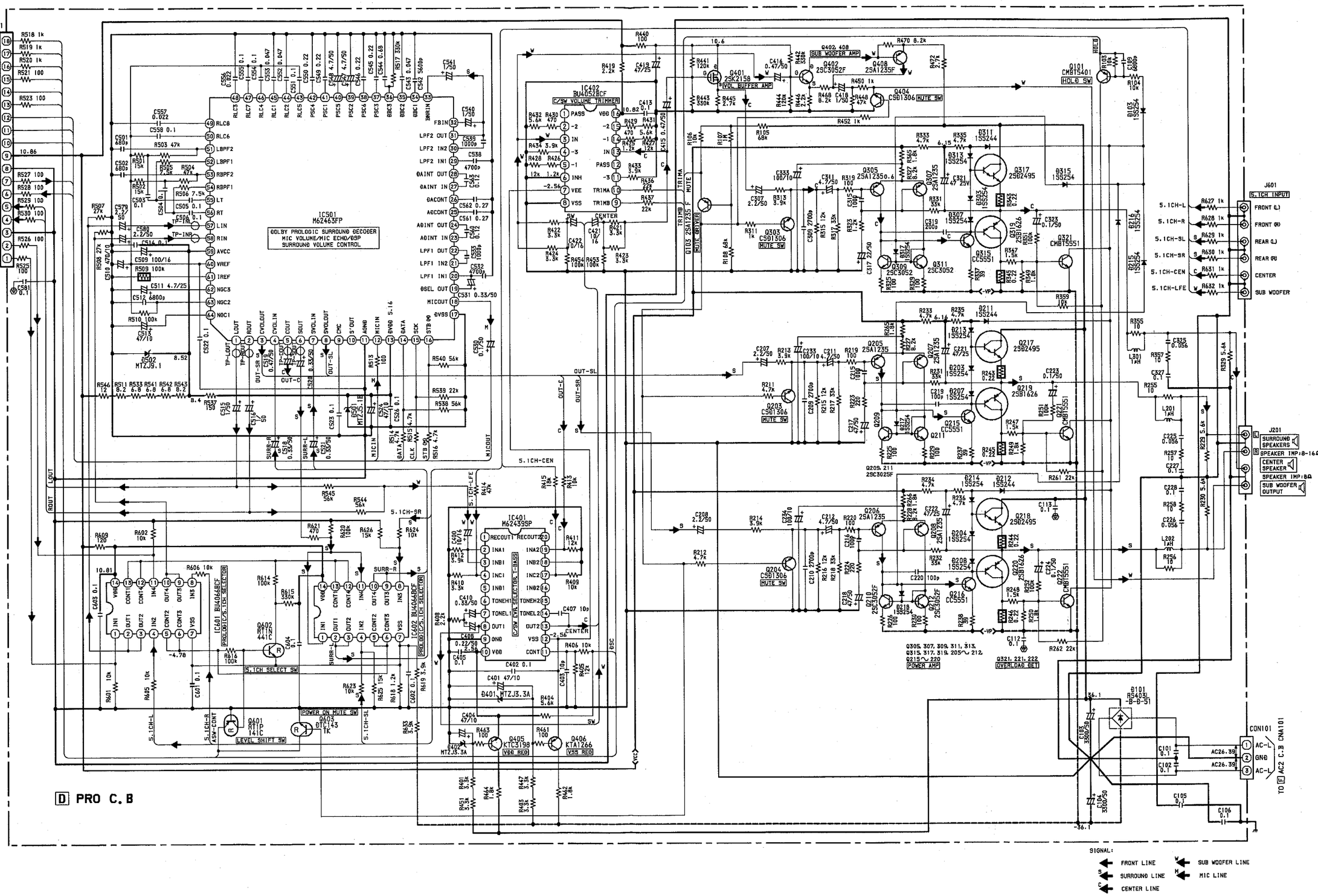


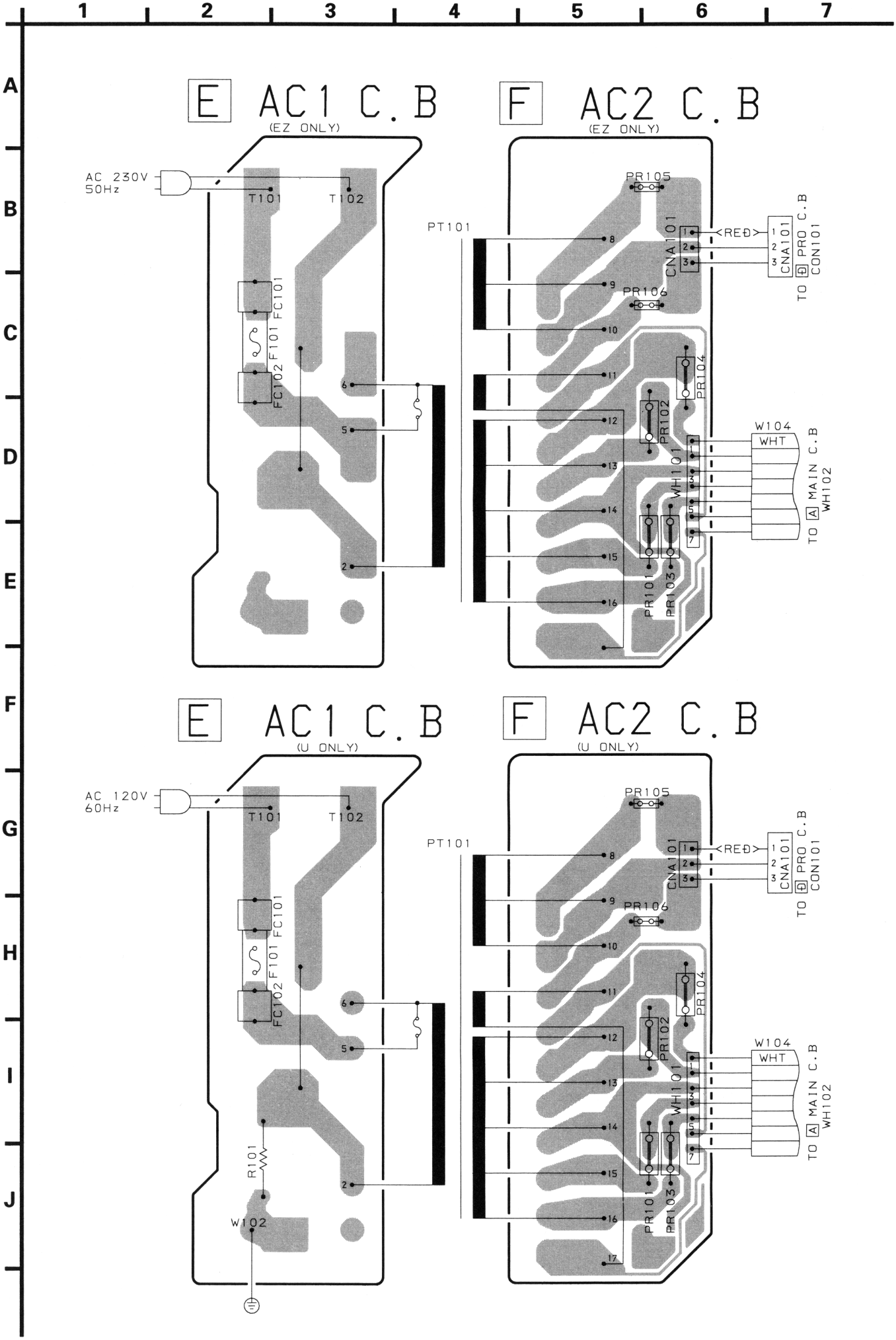
ATT:Attenuator
SC:Side Chain
DET:Detector

WIRING – 4 (PRO)

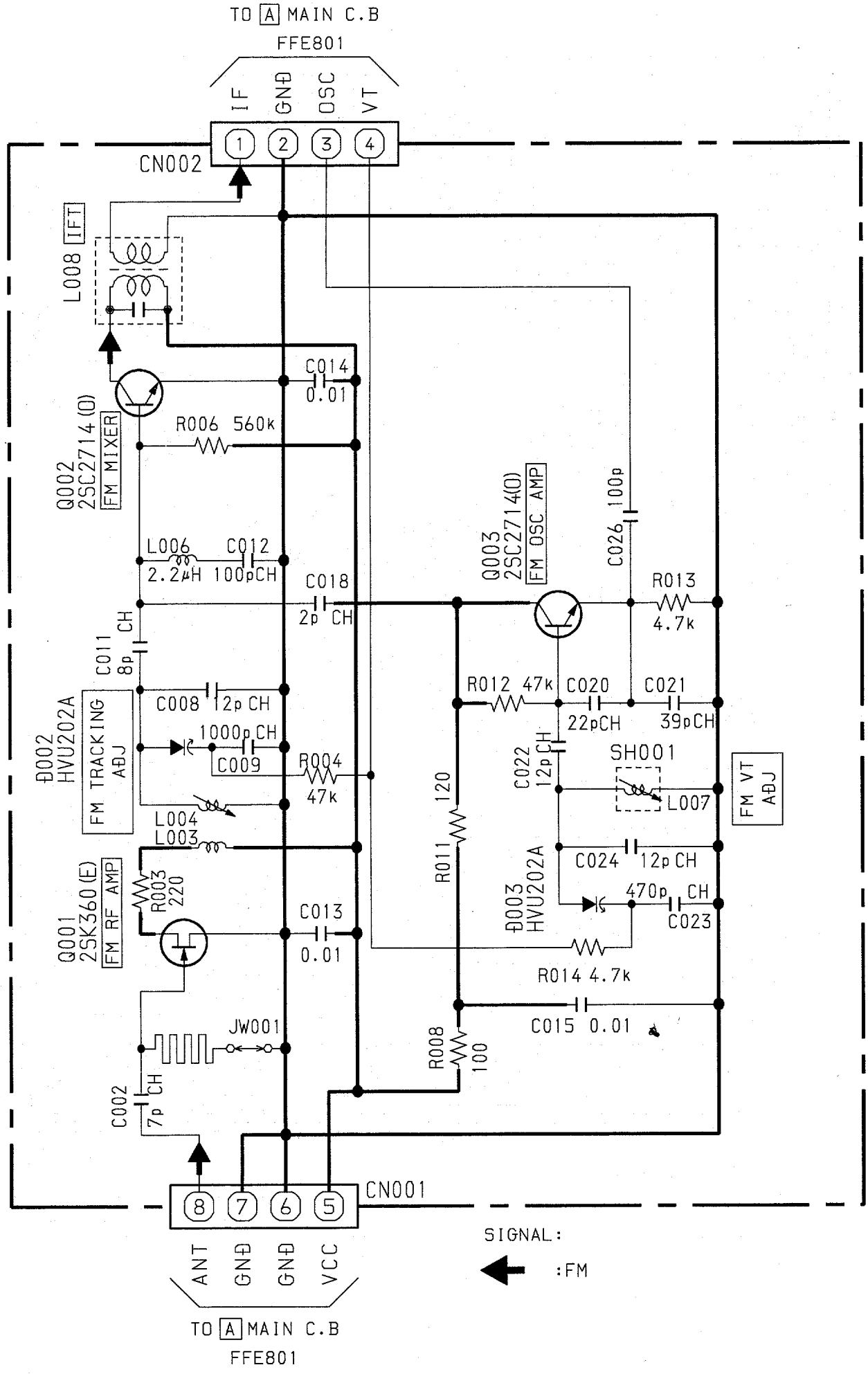


SCHEMATIC DIAGRAM – 4 (PRO)

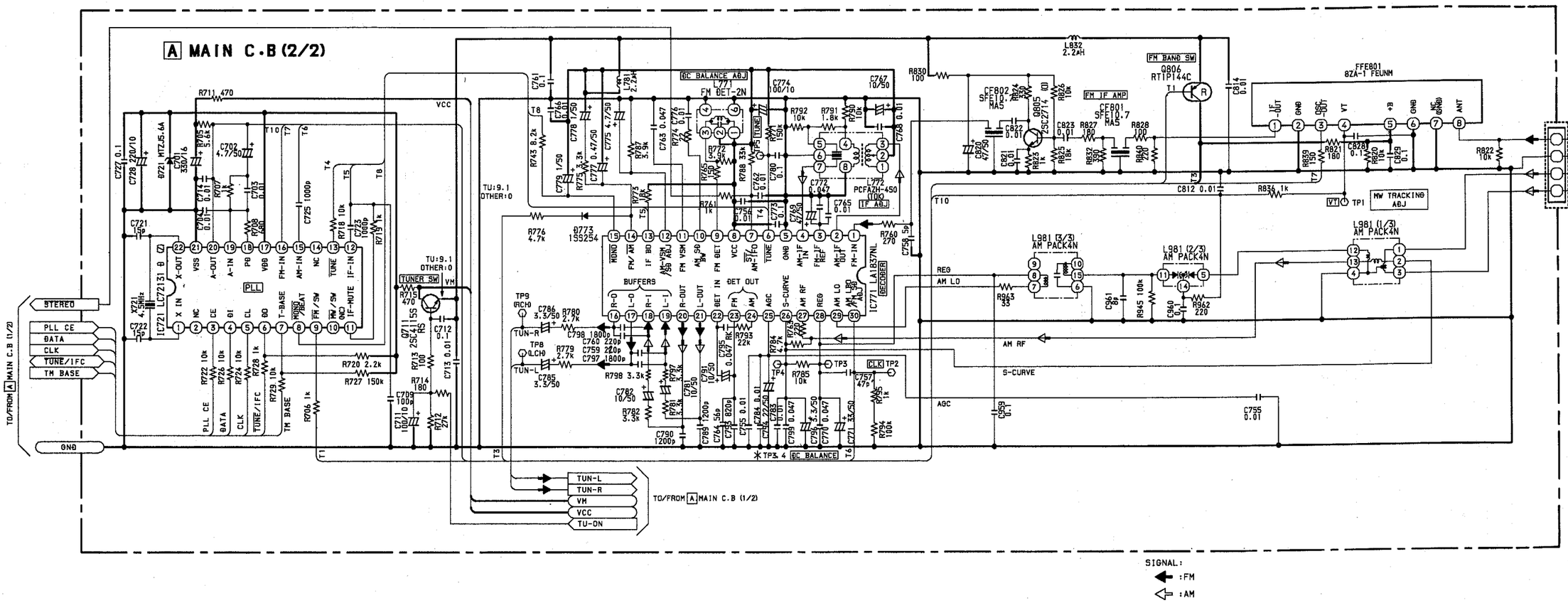


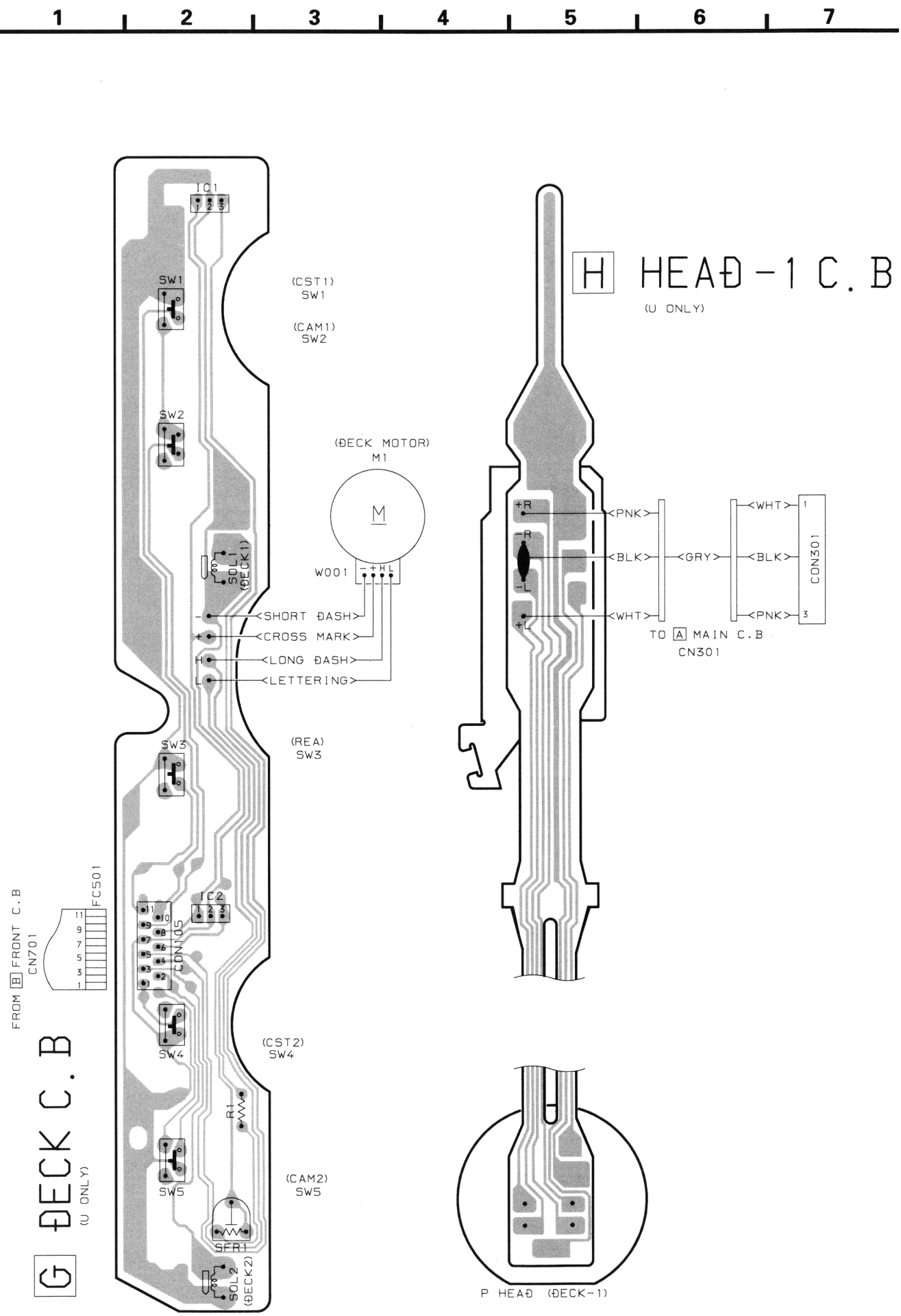

1
2
3
4
5
6
7
A
B
C
D
E
F
G
H
I
J
E AC1 C.B
(EZ ONLY)
AC 230V
50Hz
T101
T102
FC101
F101
FC102
PT101
F AC2 C.B
(EZ ONLY)
PR105
CNA101
RED
TO D PRO C.B
CON101
PR106
PR104
PR102
W104
WHT
WH101
TO A MAIN C.B
WH102
PR101
PR103
E AC1 C.B
(U ONLY)
AC 120V
60Hz
R101
W102
F AC2 C.B
(U ONLY)

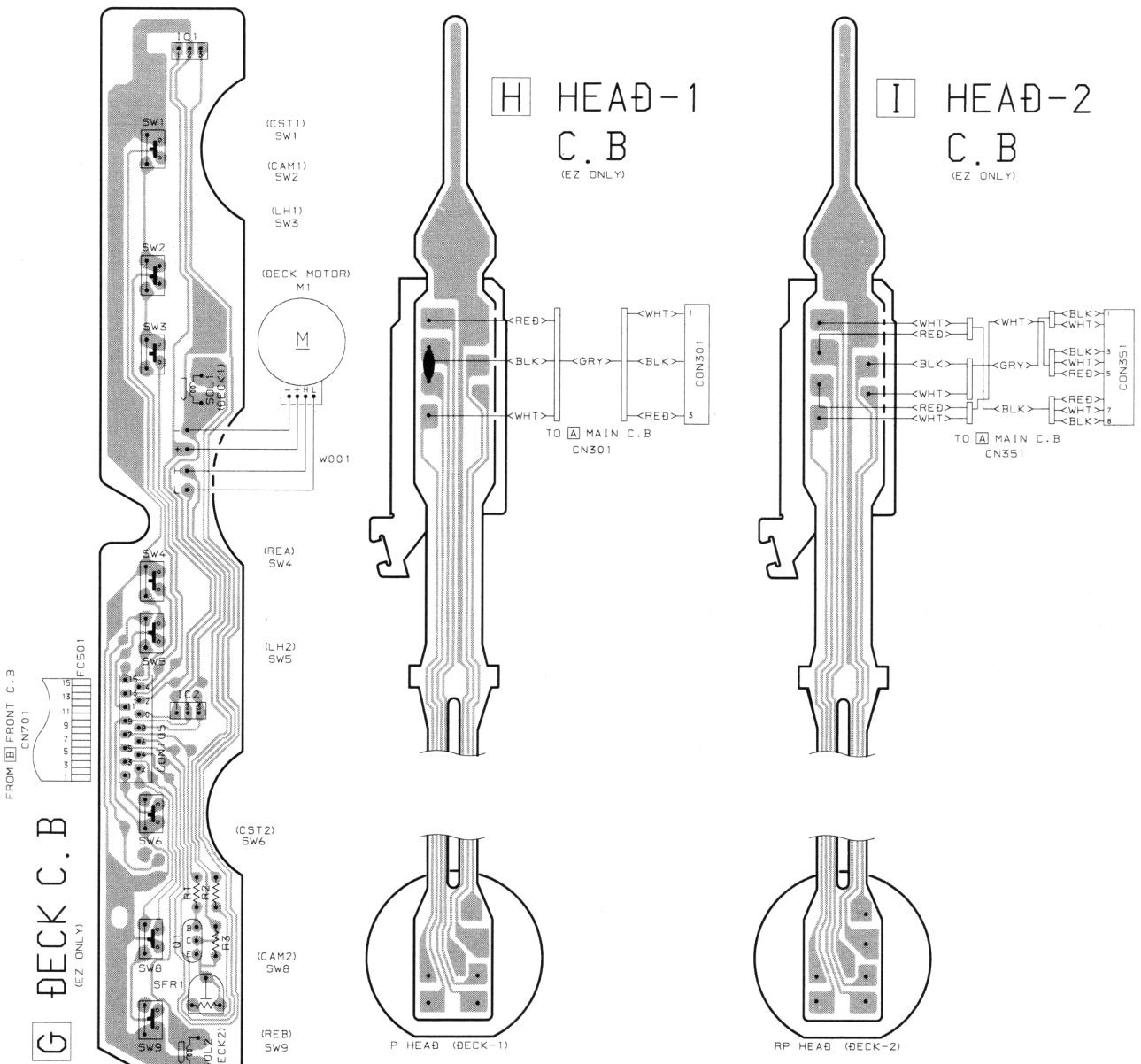
SCHEMATIC DIAGRAM – 5 (U : TUNER FRONT END)



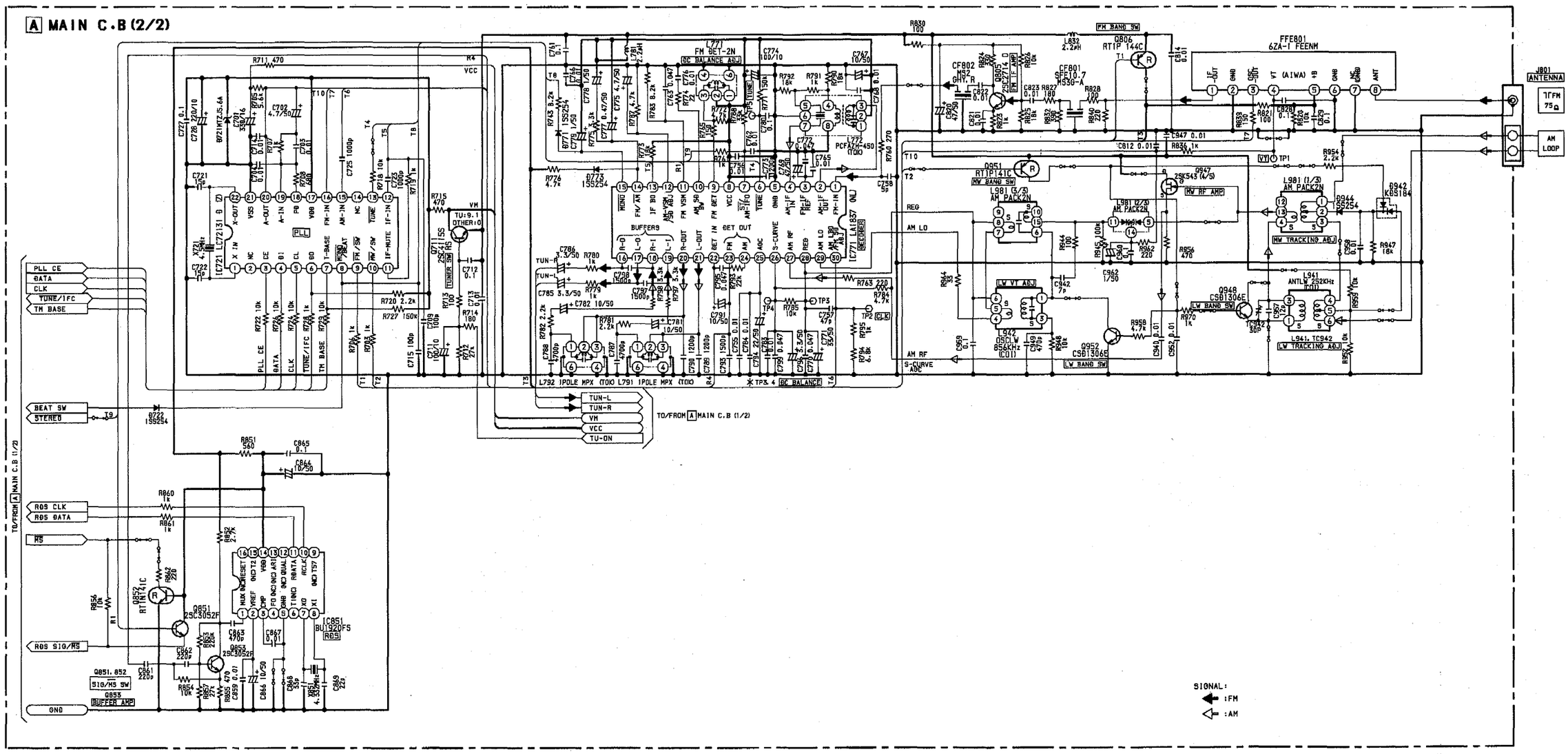
SCHEMATIC DIAGRAM – 6 (U : MAIN 2 / 2)




1
2
3
4
5
6
7
A
B
C
D
E
F
G
H
I
J
G DECK C.B
(U ONLY)
FROM B FRONT C.B
CN701
FC501
IC1
IC2
SW1
SW2
SW3
SW4
SW5
(CST1)
SW1
(CAM1)
SW2
(REA)
SW3
(CST2)
SW4
(CAM2)
SW5
CON105
R1
SFR1
SOL1
(DECK1)
SOL2
(DECK2)
(DECK MOTOR)
M1
M
W001
+H L
SHORT DASH
CROSS MARK
LONG DASH
LETTERING
H HEAD-1 C.B
(U ONLY)
+R
-R
-L
+L
PNK
BLK
GRY
WHT
CON301
TO A MAIN C.B
CN301
P HEAD (DECK-1)

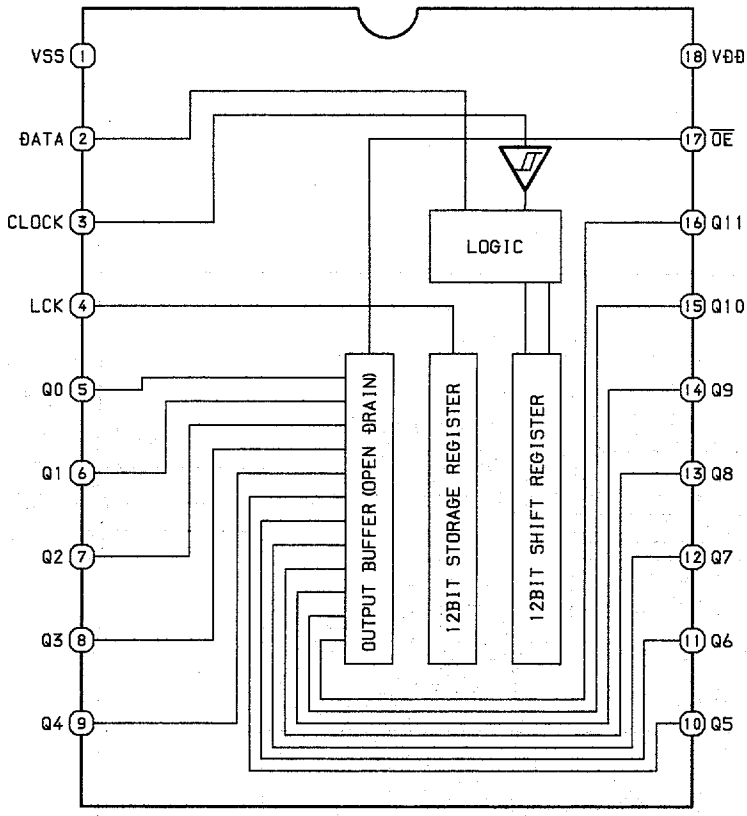

G DECK C.B
(EZ ONLY)
FROM B FRONT C.B
CN701
FC501
CON705
IC1
Q1
SW1
SW2
SW3
SW4
SW5
SW6
SW8
SW9
SFR1
R1
R2
R3
(CST1)
SW1
(CAM1)
SW2
(LH1)
SW3
(DECK MOTOR)
M1
M
SOL1
(DECK1)
W001
(REA)
SW4
(LH2)
SW5
(CST2)
SW6
(CAM2)
SW8
(REB)
SW9
SOL2
(DECK2)
H HEAD-1
C.B
(EZ ONLY)
RED
BLK
GRY
WHT
CON301
TO A MAIN C.B
CN301
P HEAD (DECK-1)
I HEAD-2
C.B
(EZ ONLY)
CON351
TO A MAIN C.B
CN351
RP HEAD (DECK-2)

SCHEMATIC DIAGRAM – 7 (EZ : MAIN 2 / 2)

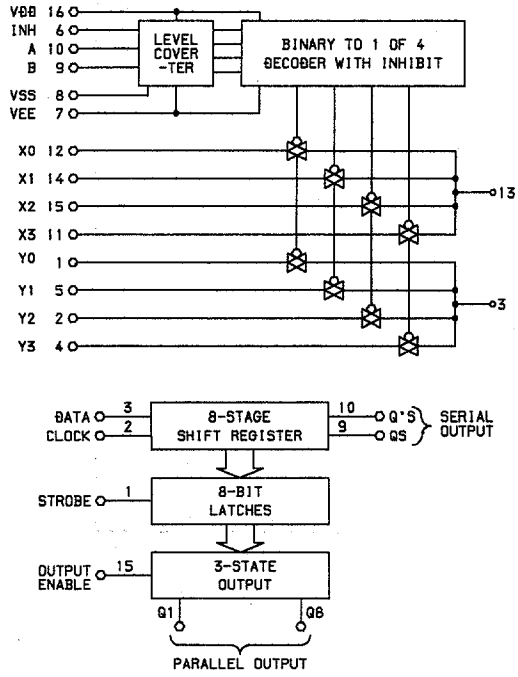


IC BLOCK DIAGRAM – 3

IC, BU2092F



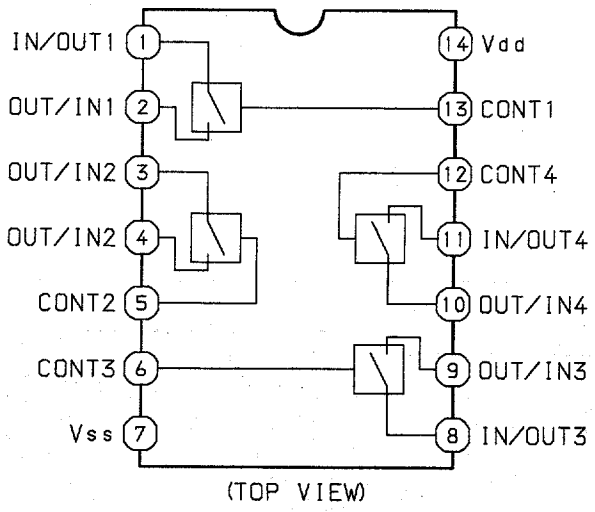
IC, 4052BCF



TRUTH TABLE

INHIBIT	A	B	ON SWITCH
L	L	L	X0 Y0
L	H	L	X1 Y1
L	L	H	X2 Y2
L	H	H	X3 Y3
H	X	X	NONE

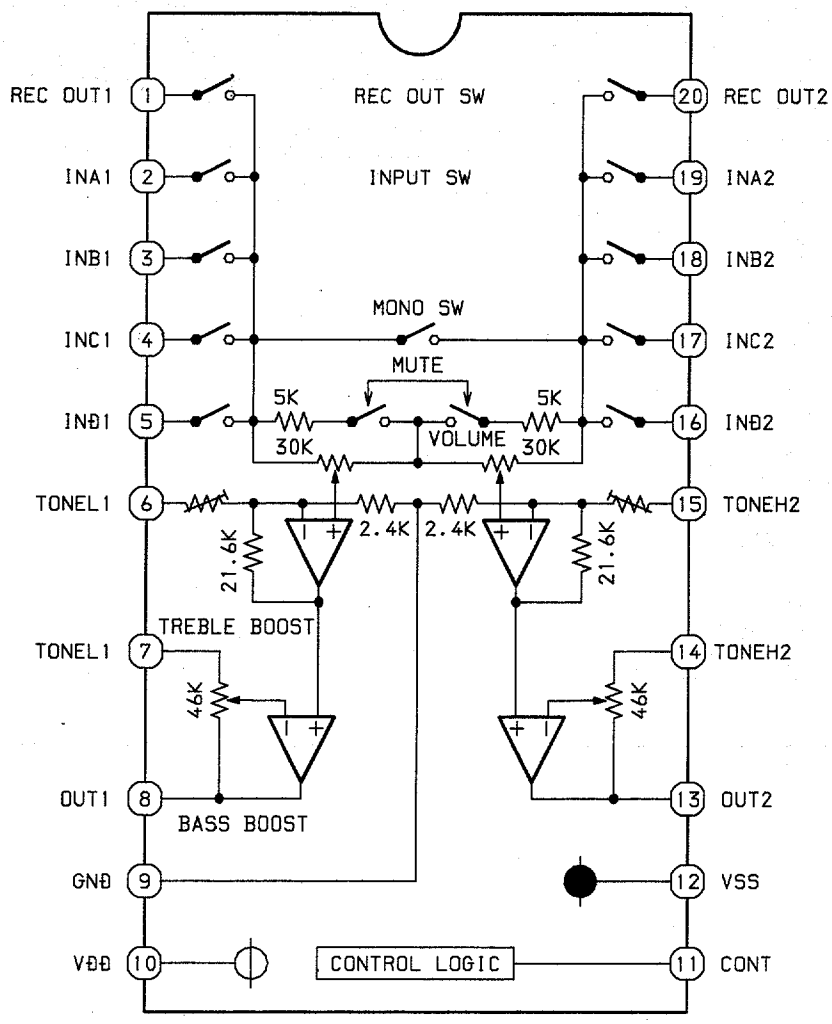
IC, BU4066BCF



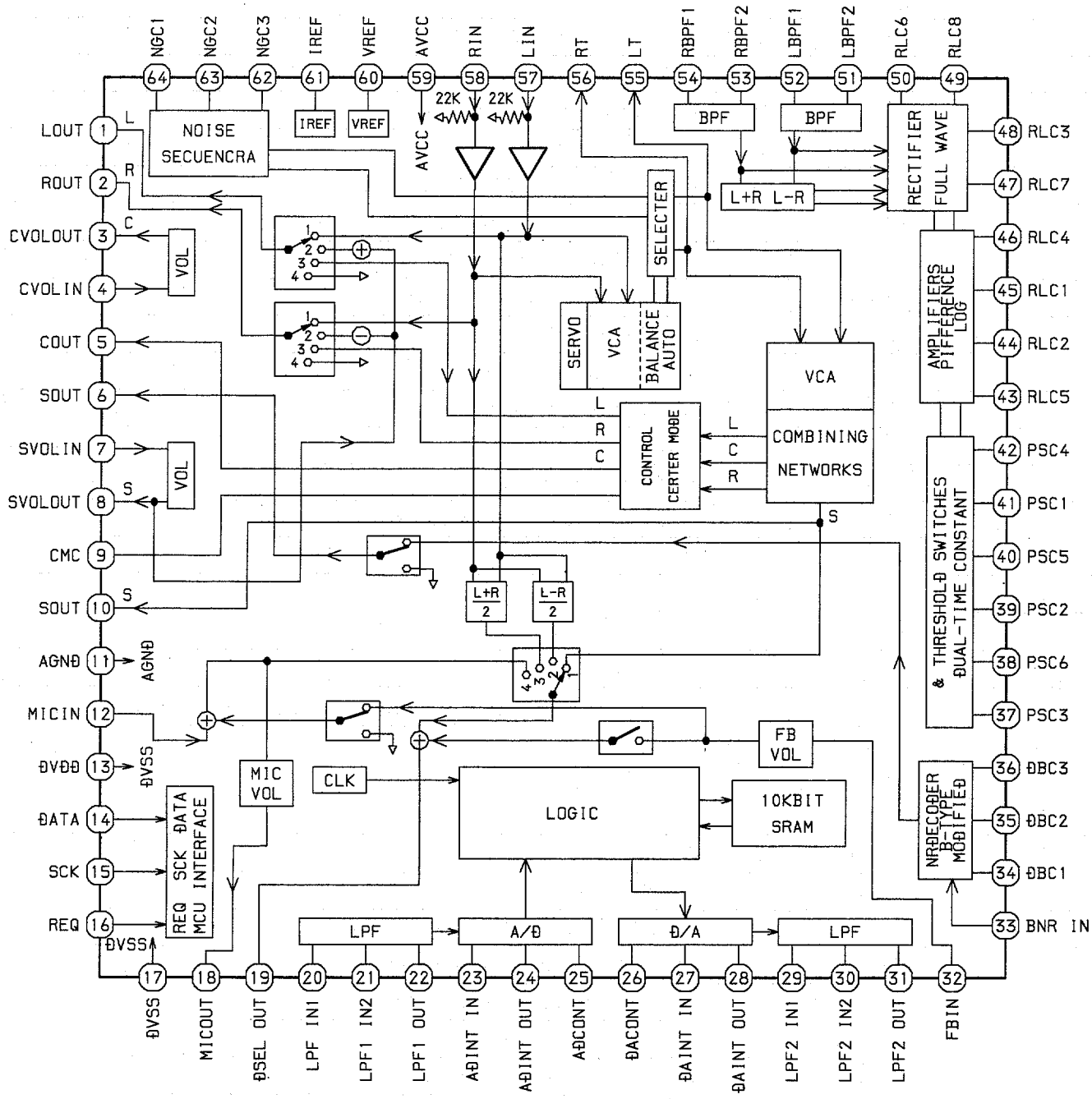
TRUTH TABLE

CONTROL	Impedance Between IN/OUT-OUT/IN
H	$0.5\sim5\times10^2\Omega$
L	$> 10^2\Omega$

IC, M62439SP



IC, M62463FP-B



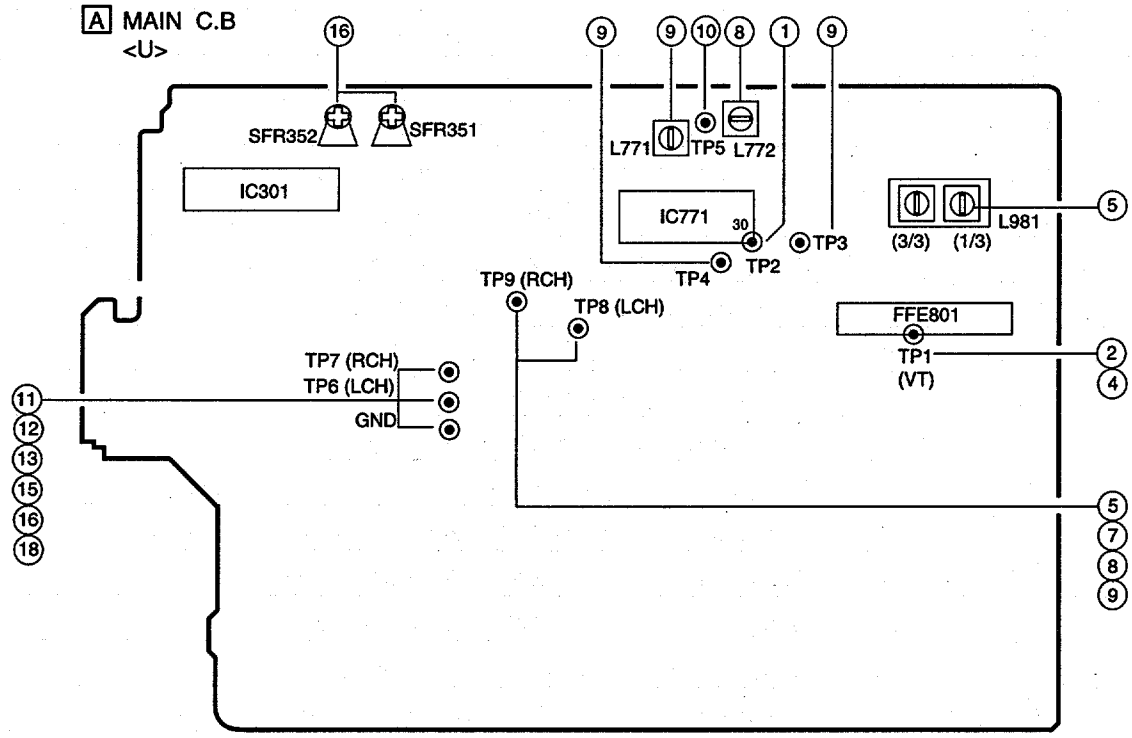
IC DESCRIPTION

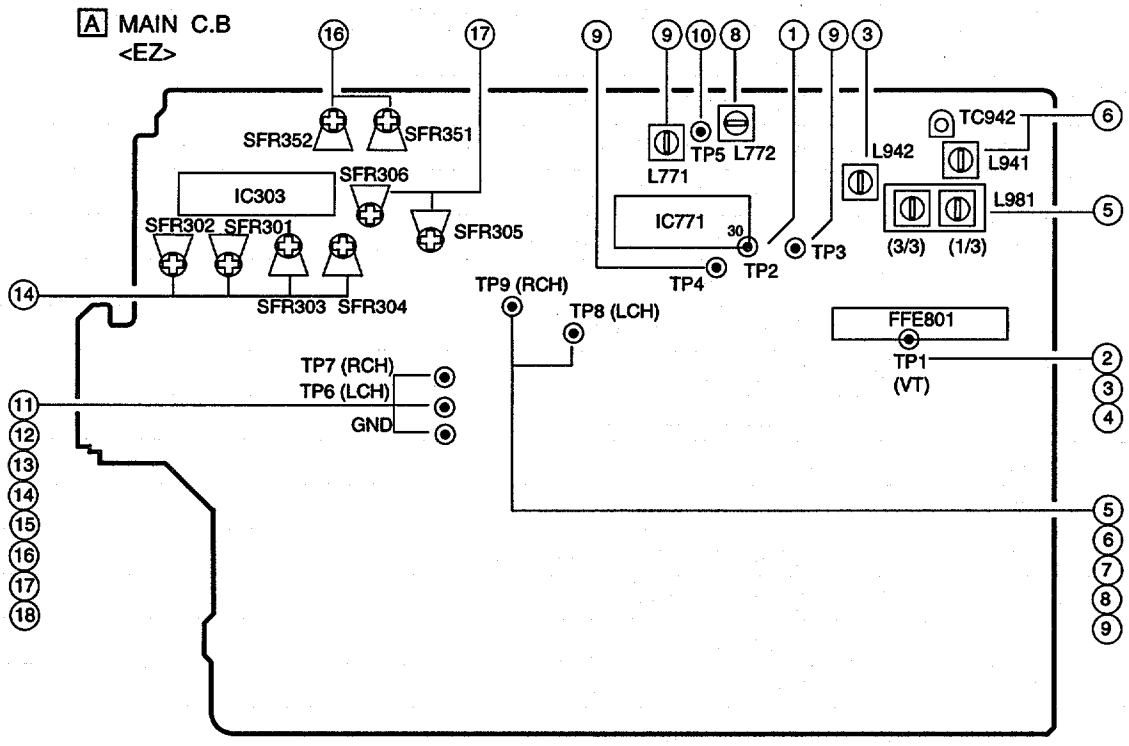
IC, LC866560W-5H26

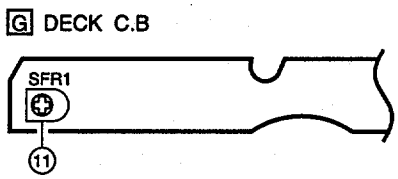
Pin No.	Pin Name	I/O	Description
1	CLK	O	CLOCK output for MAIN,FRONT PWB.
2	DATA	O	DATA output for MAIN, FRONT PWB.
3	STB	O	Latch strobe output for MAIN PWB.
4	$\overline{\text{O-LED}}$	O	LED $\overline{\text{ON}}$/OFF output.
5	STB (SHIFT)	O	Latch strobe output for FRONT shift register.
6	$\overline{\text{CH}}$(GAME)	I	Channel control output for Sound IC. (Not connected)
7	STB (GAME)	O	Latch strobe output for Sound IC. (Not connected)
8	I-NAR (GAME)	I	Sound IC NAR input. (Not connected)
9	PLL-CE	O	PLL IC chip enable output.
10	O-DSC	O	Serial data output for PROLOGIC PWB.
11	$\overline{\text{I-MIC}}$	I	Microphone input for AUTO VF display.
12	$\overline{\text{RESET}}$	I	Reset input.
13	I-$\overline{\text{HP-MUTE}}$	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	I-$\overline{\text{RMC}}$	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 to diode.
51	VP	–	Power supply input for FL display.
52	P29/AM-ST	I /O	FL segment P29 output / AM-ST input to diode.
53	P28/LW	I/O	FL segment P28 output / LW input to diode.
54	P27/SW	I/O	FL segment P27 output / SW input to diode.

Pin No.	Pin Name	I/O	Description
55	P26/FM 1	I/O	FL segment P26 output / FM1 (OIRT) input to diode.
56	P25/RDS	I/O	FL segment P25 output / RDS input to diode.
57	P24/R+1	I/O	FL segment P24 output / RVS+1 way input to diode.
58	P23/$\overline{\text{DSP}}$	I/O	FL segment P23 output / $\overline{\text{DSP}}$ input to diode.
59	P22/D-SURR	I/O	FL segment P22 output / SURR input to diode.
60	P21/K-CON	I/O	FL segment P21 output / K-CON input to diode.
61	P20/$\overline{\text{DOLBY}}$	I/O	FL segment P20 output / DOLBY input to diode.
62	P19/5.1CH	I/O	FL segment P19 output / 5.1CH input to diode.
63	P18/AM10K	I/O	FL segment P18 output / AM 10kHz input to 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	$\overline{\text{TRAYCLOSE}}$	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-S-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.

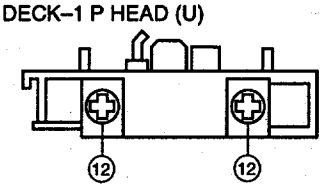
ADJUSTMENT <TUNER / DECK>



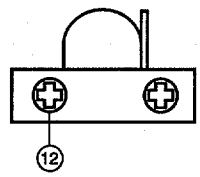




DECK–1 P,DECK-2 R/P/E HEAD (EZ)
DECK–1 P HEAD (U)



DECK–2 R / P HEAD (U)



< TUNER SECTION >

1. Clock Frequency Check
   Settings : • Test point : TP2
   Method : Set to AM 1710kHz (U), 1602kHz (EZ), and check that the test point is 2052kHz ± 45Hz (U), 2160kHz ± 45Hz (EZ).

2. MW VT Check
   Settings : • Test point : TP1 (VT)
   Method : Set to MW 1710kHz (U), 1602kHz (EZ), and check that the test point is less than 8.5V (U), 8.0V (EZ) and more than 0.6V (530kHz<U>),(531kHz<EZ>).

3. LW VT Adjustment <EZ>
   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).

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) ..... 1000kHz (U)
   L981 (1/3) ..... 999kHz (EZ)
   Method : Set to AM 1000kHz (U), 999kHz (EZ) and adjust L981(1/3) to MAX.

6. LW Tracking Adjustment <EZ>
   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.

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 (U), less than 10dB (EZ).

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 ± 0.04V.
   Next, check that the distortion is less than 1.3%.

10. Auto Stop Level Check

    MW
    Settings : • Input level : 52dB
    • Test point : TP5
    Method : Check auto stop at MW 1000kHz (U), 999kHz (EZ) and the level is 52 +10/-15dB.

    FM
    Settings : • 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
    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.

12. 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.

13. 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.

14. PB Sensitivity Adjustment (DECK 1, DECK 2) <EZ>
    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 245mV ± 10mV.

15. PB Sensitivity Check (DECK 1, DECK 2) <U>
    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.

16. 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.

17. REC/PB Sensitivity Adjustment <EZ>
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 ± 0.5dB with respect to that of the 1kHz signal.

18. REC/PB Sensitivity Check <U>
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 -2 ± 3.0dB.

PRACTICAL SERVICE FIGURE

<TUNER SECTION>

<FM SECTION>

IHF Sensitivity : (THD 3%)	Less than 10 / 9 / 9dB (U) [at 87.5 / 98.0 / 108.0MHz (U)] Less than 11 / 10 / 10dBdB (EZ) [at 87.5 / 98.0 / 108.0MHz (EZ)]
S/N 50dB Quieting sensitivity :	Less than 35dB (U) [at 98.0MHz (U)] Less than 38dB (EZ) [at 98.0MHz (EZ)]
Signal to noise ratio :	Mono : More than 68dB Stereo : More than 64dB (EZ), 66dB (U) [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 :	U : More than 30dB [at 98.0MHz] EZ : More than 12dB [at 98.0MHz]
Intermediate frequency :	10.7MHz

<MW SECTION>

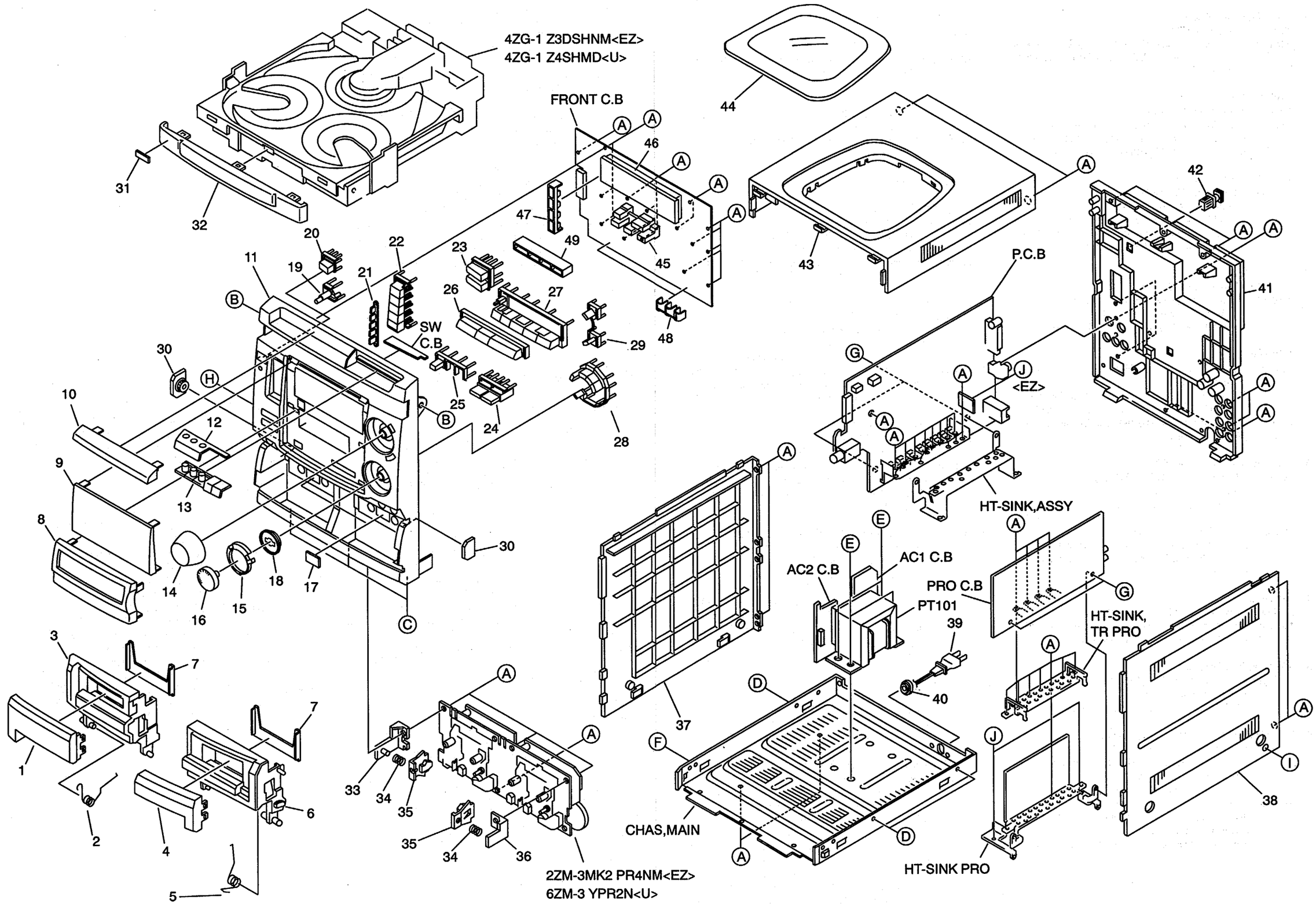
Sensitivity :	Less than 60dB [at 603kHz (EZ), 600kHz (U)] Less than 58dB [at 999kHz (EZ), 1000kHz (U)] Less than 58dB [at 1404kHz (EZ), 1400kHz (U)]
Signal to noise ratio :	More than 36dB [at 999kHz (EZ), 1000kHz (U)]
Distortion :	Less than 1.5%
Auto stop level :	50dB +10/-15dB [at 999kHz (EZ)] [at 999kHz (EZ), 1000kHz (U)]
Intermediate frequency :	450kHz

<LW SECTION> (EZ)

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

<DECK SECTION>

Tape speed :	3000Hz ± 45Hz
Wow & flutter :	Less than 0.21%(EZ), 0.25% (U) (W.R.M.S)
Take-up torque :	30 ~ 55g-cm (FWD, REV)
F.F torque :	75 ~ 180g-cm
REW torque :	75 ~ 130g-cm
Back tension :	2 ~ 7g-cm (FWD, REV)
PB output level :	300mV± 3dB (U), 300mV± 1dB (EZ) (SP OUT 2V)
REC/PB output level :	-2.0 ± 3.0dB (U), 0 ± 1dB (EZ) (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) TTA–100

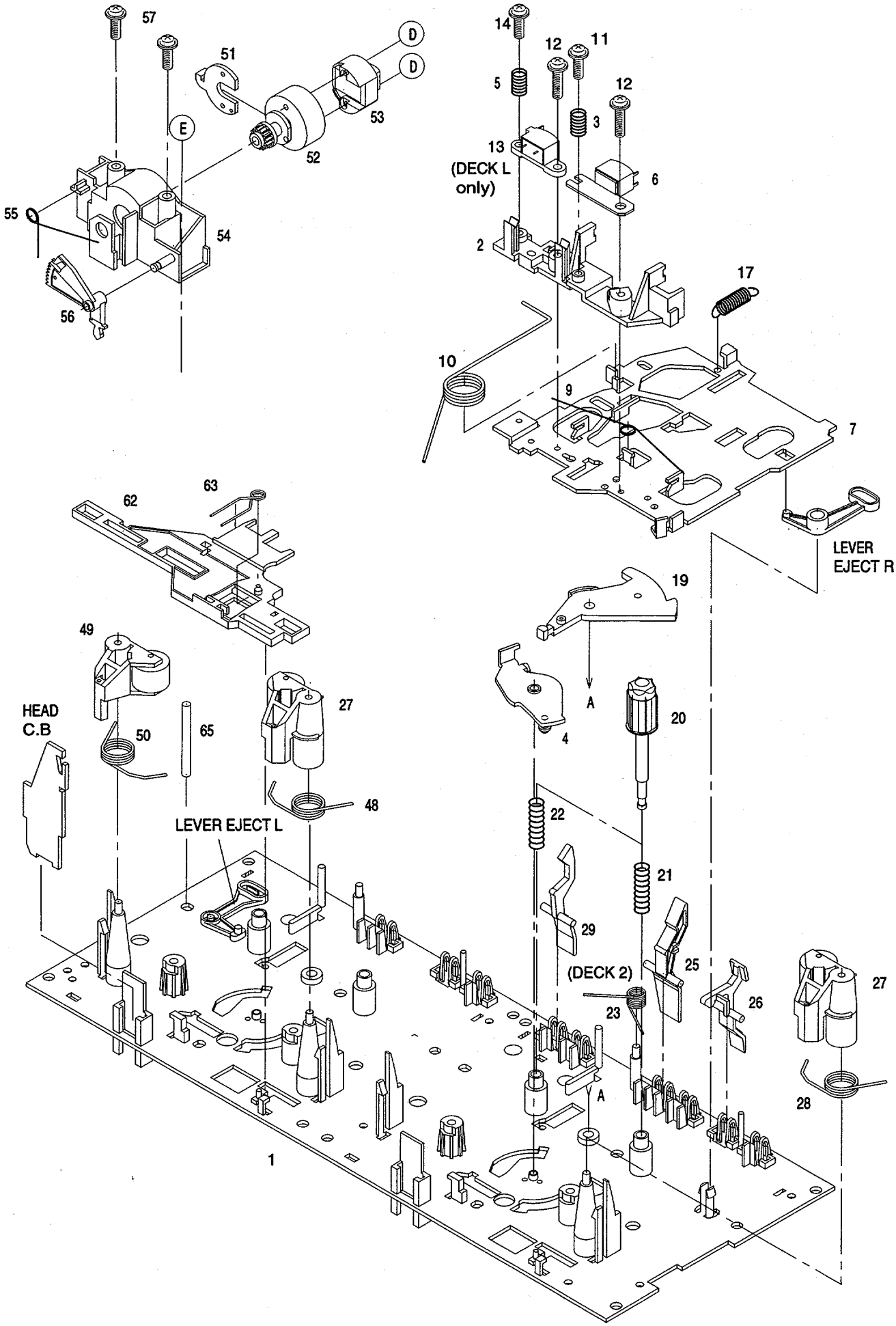

4ZG-1 Z3DSHNM<EZ>
4ZG-1 Z4SHMD<U>
FRONT C.B
SW C.B
P.C.B
<EZ>
HT-SINK,ASSY
HT-SINK,
TR PRO
HT-SINK PRO
AC1 C.B
AC2 C.B
PRO C.B
PT101
CHAS,MAIN
2ZM-3MK2 PR4NM<EZ>
6ZM-3 YPR2N<U>

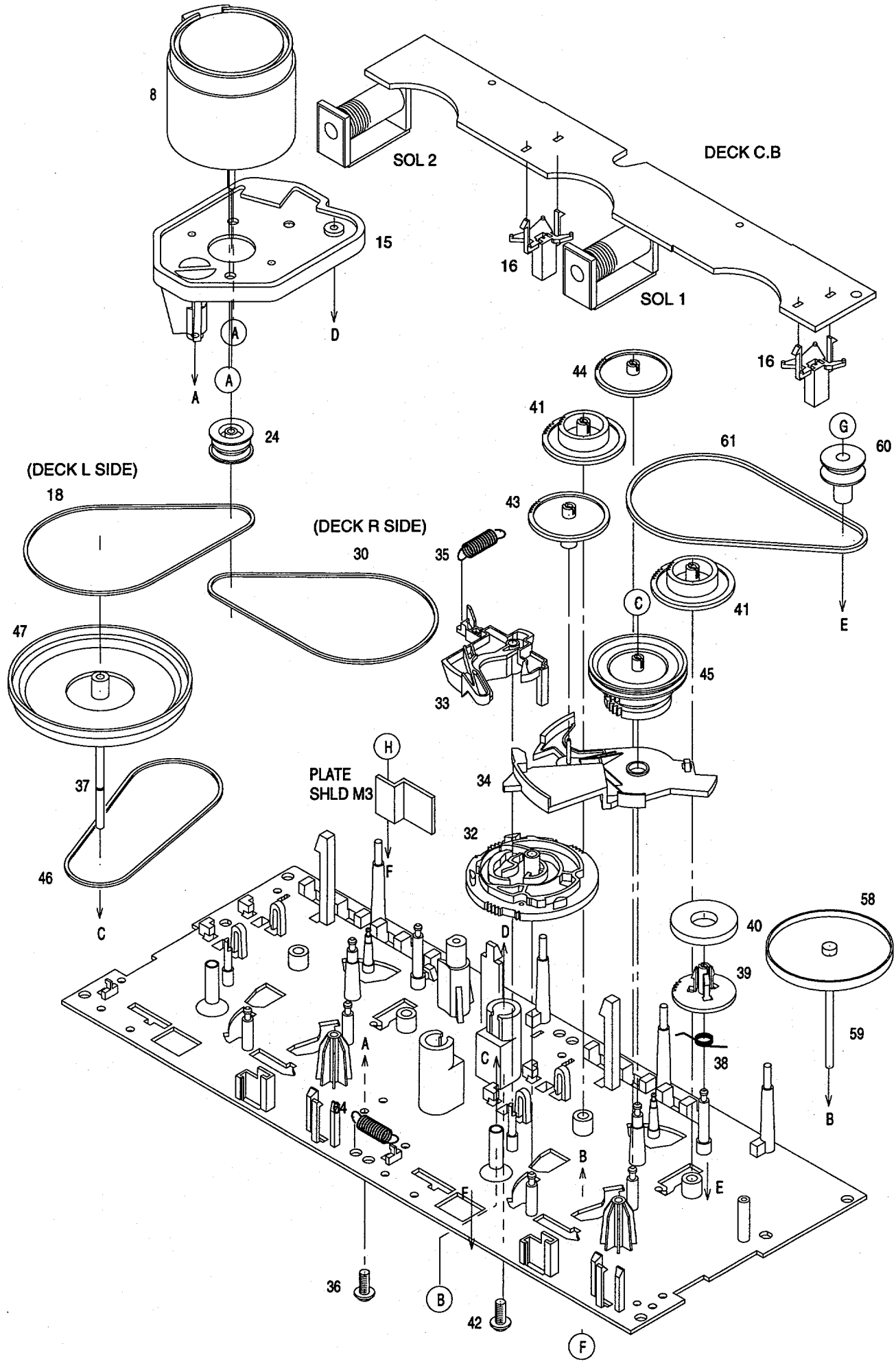
MECHANICAL PARTS LIST 1 / 1

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

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	87-NBG-009-010		WINDOW,CASS 1
2	82-NF5-218-010		SPR-T,EJECT 1 (SIN)
3	88-NF7-003-010		BOX,CASS 1 U
4	87-NBG-010-010		WINDOW,CASS 2
5	82-NF5-219-010		SPR-T,EJECT 2 (SIN)
6	88-NF7-049-010		BOX,CASS 2 H<EZ>
6	88-NF7-004-010		BOX,CASS 2 U<U>
7	86-NF6-061-010		REFLECTOR,CASS
8	88-NF7-002-010		PANEL,CONT<EZ>
8	88-NF7-051-010		PANEL,CONT PRO1<U>
9	88-NFU-009-010		WINDOW,DISP E<EZ>
9	88-NFU-002-010		WINDOW,DISP PRO<U>
10	87-NBG-008-010		WINDOW,CD
11	88-NFU-003-010		CABI,FR E<EZ>
11	88-NFU-008-010		CABI,FR U<U>
12	87-NBG-006-010		PANEL,CD
13	88-NF7-062-010		KEY,CD
14	87-NBG-011-010		KNOB,RTRY VOL
15	88-NF7-007-010		PANEL,JOG
16	88-NF7-006-310		KNOB,RTRY JOG
17	81-532-080-010		LABEL, CASS. COMPT
18	88-NF7-015-010		REFLECTOR,JOG
19	88-NF7-040-110		KEY,DEMO S
20	87-NBG-015-010		KEY,POWER
21	87-NBG-023-010		REFLECTOR,FUN
22	88-NFU-012-010		KEY,FUN 5.1CH
23	88-NF7-008-010		KEY,BBE
24	88-NF7-033-010		KEY,TIMER E<EZ>
24	88-NF7-027-010		KEY,TIMER U<U>
25	88-NF7-013-010		KEY,EDIT<EZ>
25	88-NF7-025-010		KEY,EDIT U<U>
26	88-NF7-009-110		KEY,ASSY OPE
27	88-NF7-052-110		KEY,ASSY DEMO U1<U>
27	88-NF7-018-010		KEY,ASSY,DEMO<EZ>
28	88-NF7-014-110		KEY,DSP
29	87-NBG-019-010		KEY,ECHO
30	87-NF8-220-010		DMPR,150
31	82-NE6-067-010		BADGE,AIWA 30N
32	88-NF7-005-010		PANEL,TRAY
33	87-NF4-216-010		HLDR,LOCK 1
34	86-NF9-224-010		SPR-C,LOCK
35	82-NF5-229-010		PLATE,LOCK
36	87-NF4-217-010		HLDR,LOCK 2
37	87-NB8-005-010		PANEL,LEFT<EZ>
37	87-NB8-051-010		PANEL,LEFT U<U>
38	88-NF8-047-010		PANEL,RIGHT 2<EZ>
38	88-NF8-048-010		PANEL,RIGHT 2 U<U>
⚠ 39	87-050-034-010		AC CORD ASSY,E<EZ>
⚠ 39	87-050-053-010		AC CORD ASSY,U-2<U>
40	87-085-185-010		BUSHING, AC CORD (E)<EZ>
40	87-085-189-010		BUSHING, CORD (U)<U>
41	88-NFU-013-010		CABI,REAR EZSTNM<EZ>
41	88-NFU-014-010		CABI,REAR UST<U>
42	84-ZG1-245-210		CAP,OPTICAL
43	87-NF6-021-010		PANEL,TOP
44	86-NF6-101-010		WINDOW TOP UL<U>
44	86-NF6-007-010		WINDOW,TOP<EZ>
45	88-NF7-201-010		GUIDE,OPE
46	87-NF5-203-010		GUIDE,FL
47	87-NBG-202-010		GUIDE,FUN
48	87-NB6-212-010		GUIDE,LED L IND
49	88-NF7-202-010		GUIDE,PRO
A	87-067-703-010		TAPPING SCREW, BVT2+3-10
B	87-721-097-410		QT2+3-12 GLD
C	87-067-688-010		BVTT+3-6
D	87-721-096-410		QT2+3-10 GLD
E	87-078-019-010		S-SCREW,IT+4-6
F	87-591-094-410		TAPPING SCREW, QIT+3-6
G	87-NF4-224-010		S-SCREW,IT3B+3-8 CU
H	87-723-096-410		QT2+3-10W/O SLOT BL
I	87-B10-091-010		UTT2+3-10 W/O BLK
J	87-067-579-010		TAPPING SCREW, BVT2+3-8

TAPE MECHANISM EXPLODED VIEW 1 / 1 (6ZM-3 YPR2N <U>)



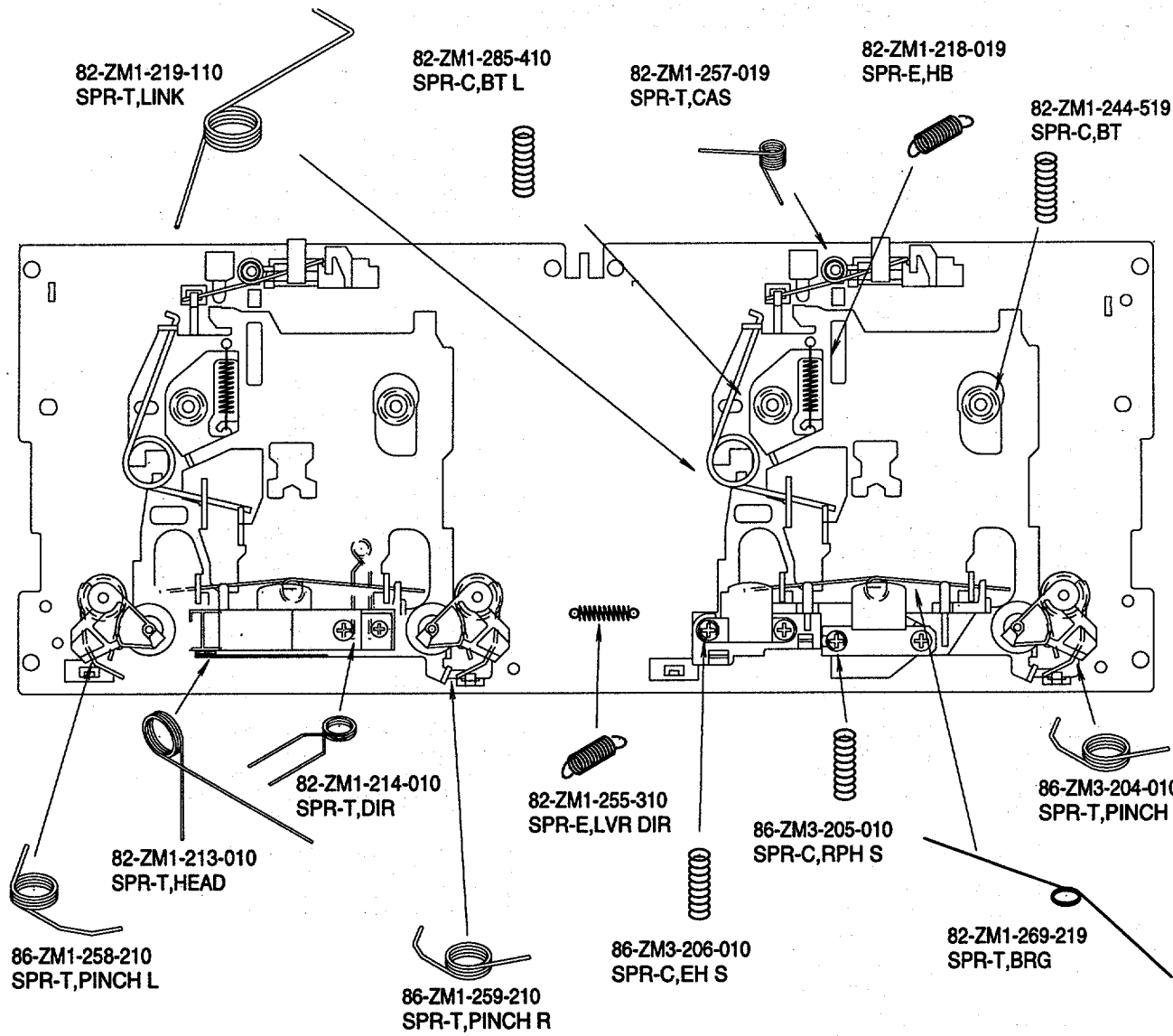

8
SOL 2
DECK C.B
15
16
SOL 1
16
D
A
A
44
41
24
G
61
60
(DECK L SIDE)
18
(DECK R SIDE)
43
30
35
41
C
E
47
45
33
H
PLATE
SHLD M3
34
37
32
F
46
C
58
40
D
39
59
A
C
38
B4
B
B
E
E
36
B
42
F

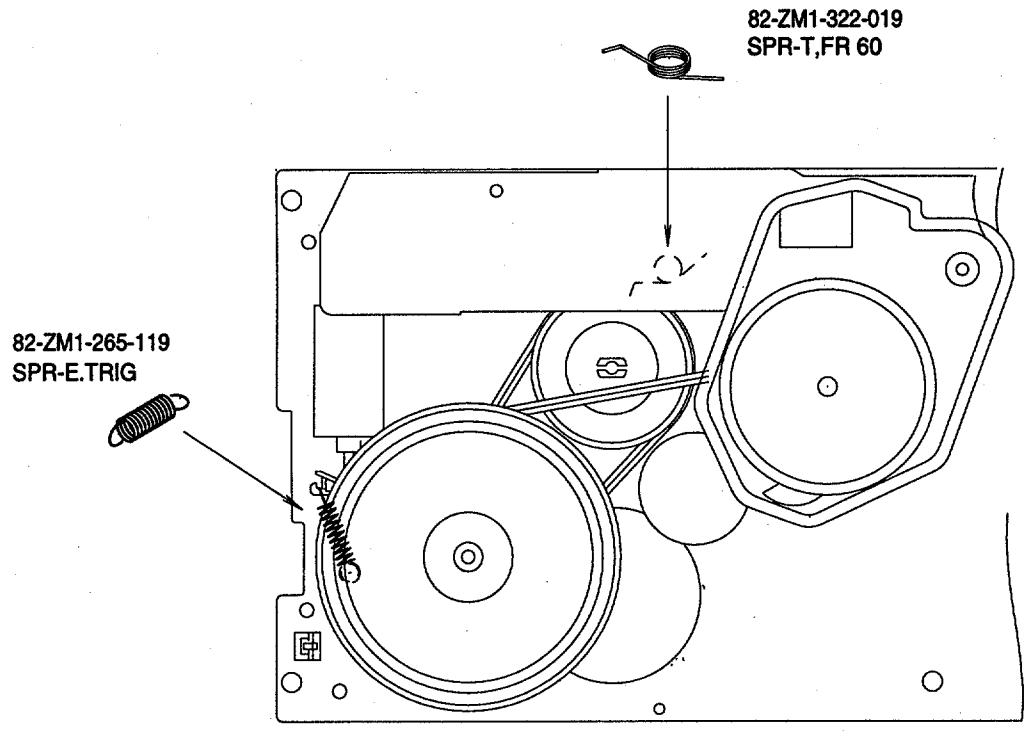
TAPE MECHANISM PARTS LIST 1 / 1 (6ZM-3 YPR2N <U>)

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

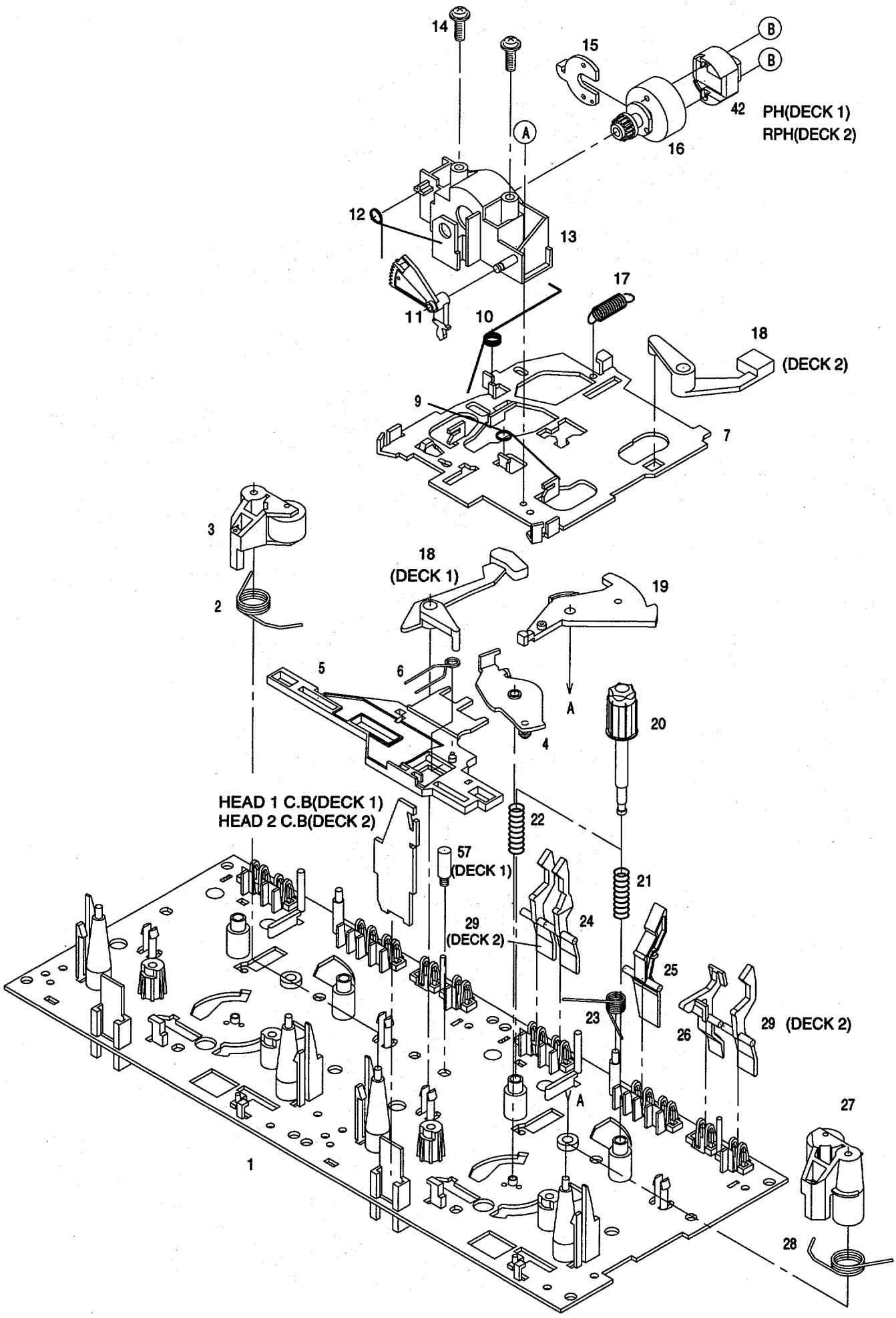
REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	86-ZM3-215-010		CHAS ASSY,RS
2	86-ZM3-202-010		BASE,HEAD S
3	86-ZM3-205-010		SPR-C,RPH S
4	82-ZM1-333-210		PLATE,LINK 2
5	86-ZM3-206-010		SPR-C,EH S
6	87-A90-403-019		HEAD,RPH MS15R
7	86-ZM3-201-010		CHAS,HEAD S(DECK L)
7	82-ZM3-206-910		CHAS,HEAD(DECK R)
8	87-045-347-019		MOT,SHU2L 70(M1)
9	82-ZM1-269-219		SPR-T,BRG
10	82-ZM1-219-110		SPR-T,LINK
11	86-ZM3-209-010		S-SCREW,ASIMUTHS
12	86-ZM3-207-010		S-SCREW,RPH
13	87-A90-404-019		HEAD,EH LE15B
14	86-ZM3-208-010		S-SCREW,EH
15	86-ZM3-203-010		HLDR,MOTS
16	82-ZM1-245-210		HLDR,IC
17	82-ZM1-218-019		SPR-E,HB
18	86-ZM3-214-010		BELT,SUB RR
19	82-ZM1-222-219		LVR,PLAY
20	82-ZM1-217-419		REEL TABLE
21	82-ZM1-244-519		SPR-C,BT
22	82-ZM1-285-410		SPR-C,BT L
23	82-ZM1-257-019		SPR-T,CAS
24	82-ZM3-221-010		PULLEY,MOT 2M
25	82-ZM1-242-019		LVR,CAS
26	82-ZM1-243-019		LVR,STOP
27	82-ZM1-344-119		LVR ASSY,PINCH
28	86-ZM3-204-010		SPR-T,PINCHDS
29	82-ZM1-240-119		LVR,REC (DECK 2)
30	86-ZM3-210-010		BELT,RS
32	82-ZM3-305-119		GEAR,CAM M2
33	82-ZM1-227-319		LVR,TRIG
34	82-ZM3-306-110		LVR,FR M2
35	82-ZM1-265-119		SPR-E,TRIG
36	87-761-073-419		VFT2+2.6-6 W/O SLOT
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-ZM1-216-319		GEAR,REEL
42	86-ZM3-213-010		S-SCREW,HLDR,MOT 3
43	82-ZM1-225-219		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-ZM1-349-019		FLY-WHL RW (DECK L)
47	82-ZM3-338-010		FLY-WHL R3W (DECK R)
48	82-ZM1-259-210		SPR-T,PINCH R
49	82-ZM1-341-110		LVR ASSY,PINCH L2
50	82-ZM1-258-210		SPR-T,PINCH L
51	82-ZM1-314-110		PLATE,HEAD
52	82-ZM1-208-310		HLDR,HEAD
53	87-A90-366-010		HEAD,PH YK50P-BF414
54	82-ZM1-207-810		GUIDE TAPE
55	82-ZM1-213-010		SPR-T,HEAD
56	82-ZM1-210-110		GEAR,HT
57	86-ZM4-206-010		S-SCREW AZIMUTH L
58	82-ZM1-348-010		FLY-WHL,LW
59	82-ZM1-236-019		CAPSTAN N 2-41.5
60	82-ZM3-335-210		PULLEY,COUPLER M3
61	86-ZM1-206-010		BELT,MAIN L
62	82-ZM1-266-110		LVR,DIR
63	82-ZM1-214-010		SPR-T,DIR
64	82-ZM1-255-310		SPR-E,LVR DIR
65	82-ZM3-339-010		SHAFT,COUPLER N3
A	87-251-071-417		U+2.6-4
B	80-ZM6-243-019		SH,1.75-3.6-0.5 SLT
C	82-ZM3-334-010		PW,2.16-6-0.4
D	80-ZM6-207-010		V+1.6-7
E	85-ZM3-202-010		S-SCREW TG
F	82-ZM1-288-010		SH,1.63-3.2-0.5 SLT
G	87-B10-043-010		W-P,0.99-4-0.25 SLT
H	87-571-032-410		VIT+2-3

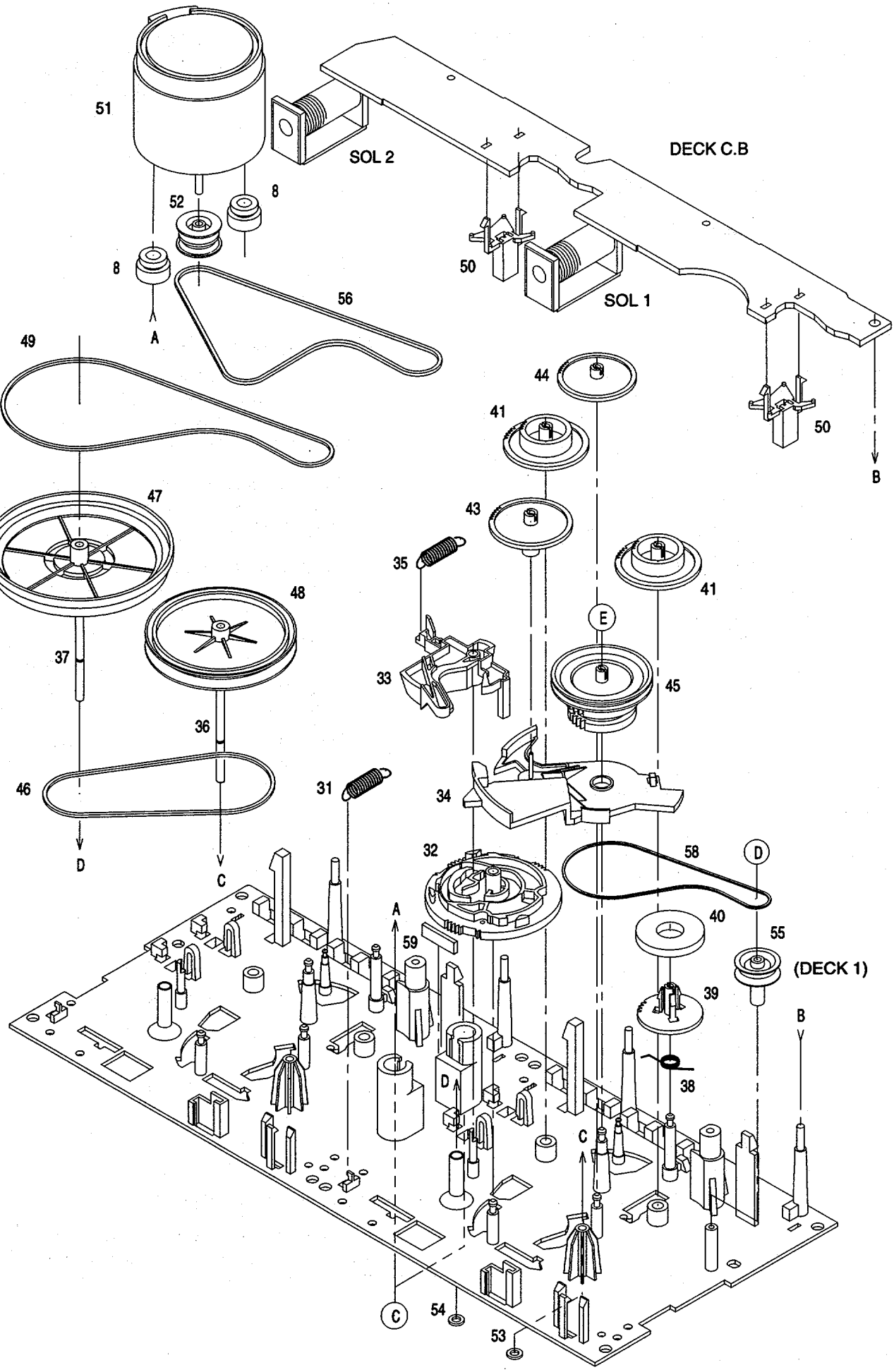
SPRING APPLICATION POSITION (6ZM-3 YPR2N <U>)





TAPE MECHANISM EXPLODED VIEW 1 / 1 (2ZM-3MK2 PR4NM <EZ>)

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SOL 2
DECK C.B
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SOL 1
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35
41
48
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34
D
C
32
58
D
A
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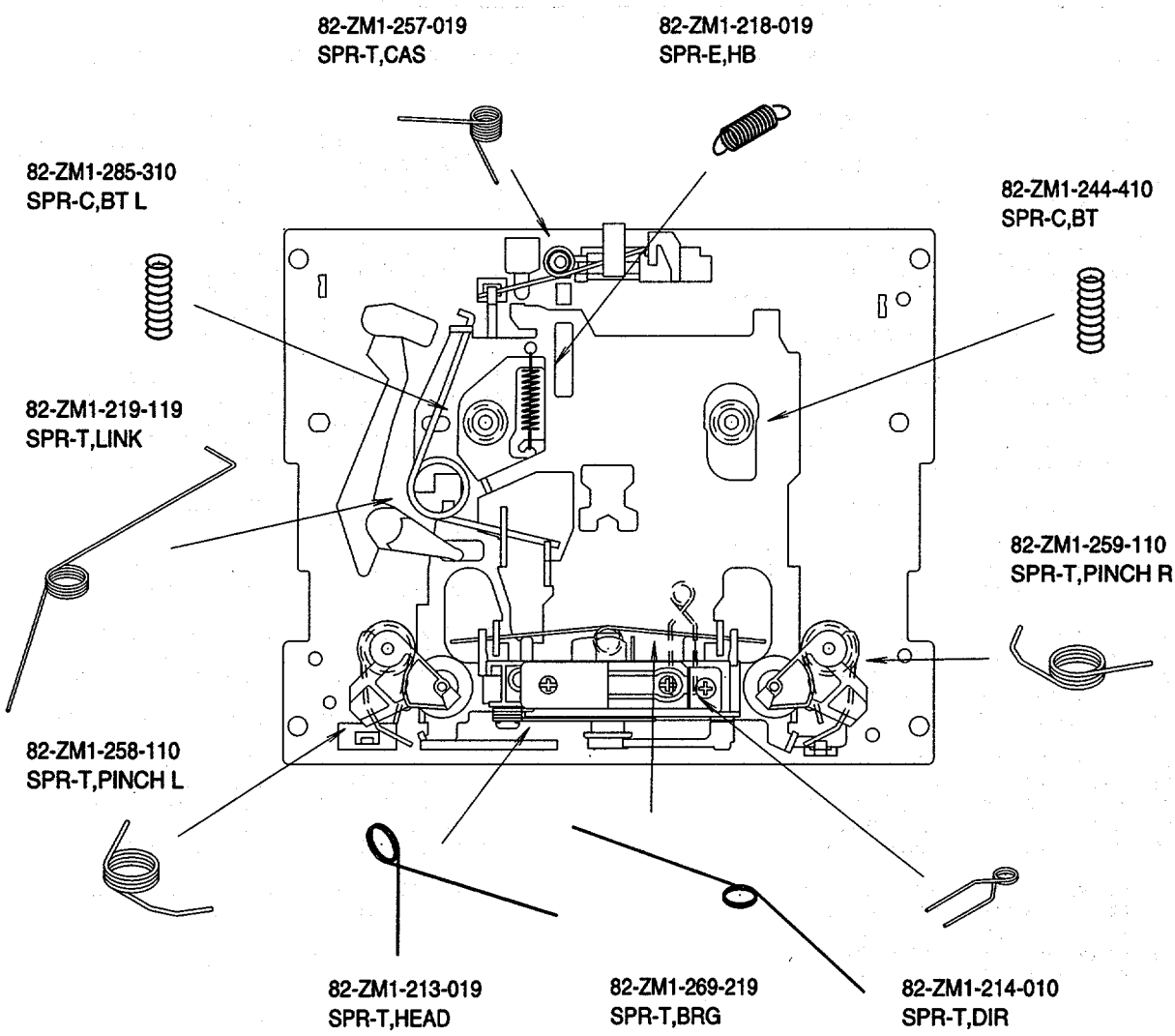
55
59
(DECK 1)
39
B
38
D
C
C
54
53

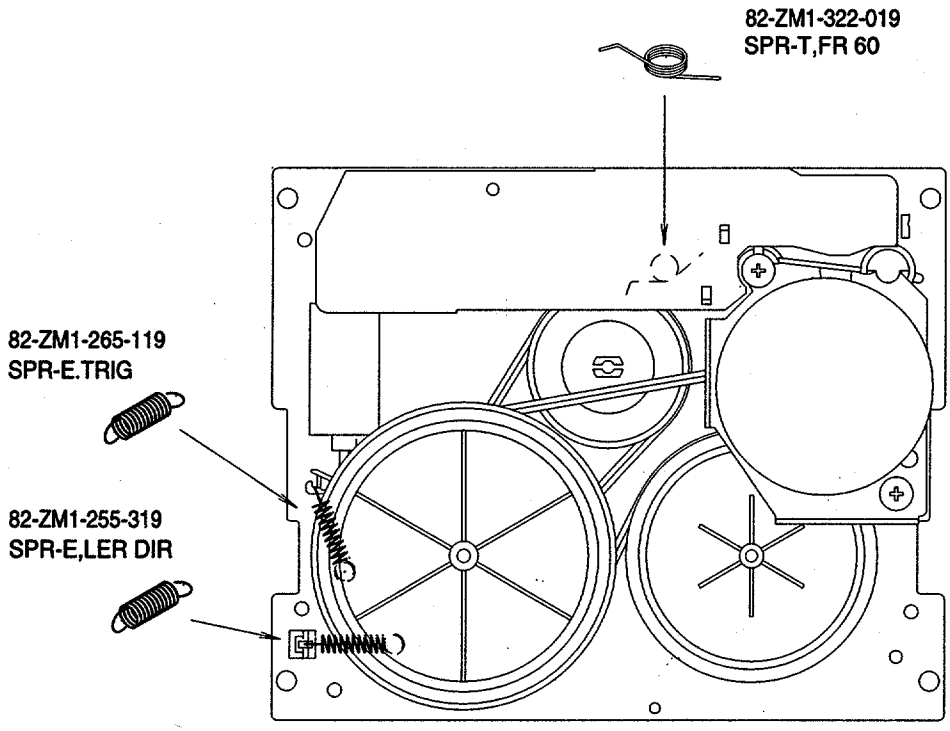
TAPE MECHANISM PARTS LIST 1 / 1 (2ZM-3MK2 PR4NM <EZ>)

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 (2ZM-3MK2 PR4NM <EZ>)

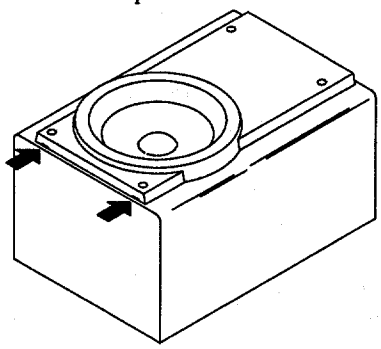




SPEAKER DISASSEMBLY INSTRUCTIONS

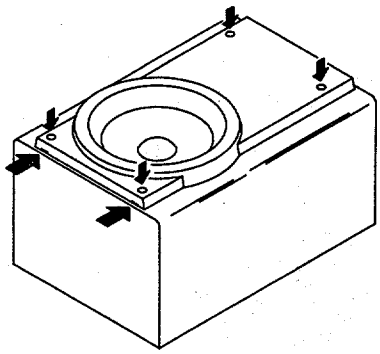
Type.1

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.



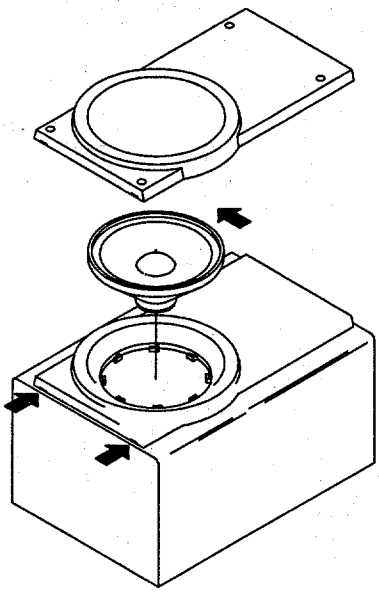
Type.2

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.

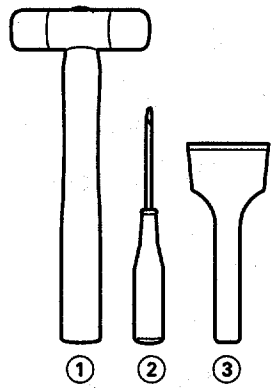


Type.3

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.

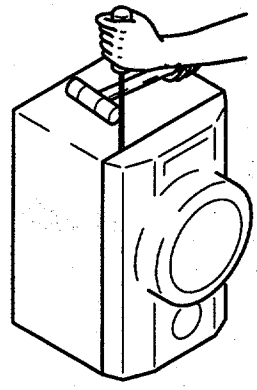


Fig-1

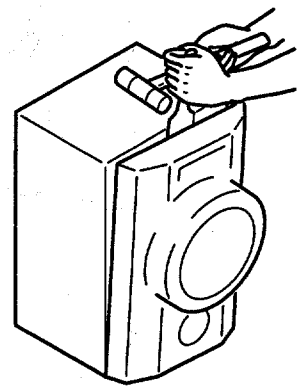


Fig-2

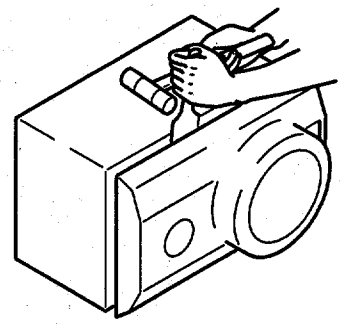


Fig-3

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.

SPEAKER PARTS LIST (SX-NAV504 <YTNL,YBNL>)

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

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	88-NSU-002-010		PANEL,FR
2	88-NST-006-010		GRILLE,FRAME ASSY
3	83-096-614-010		SPEAKER CODE
4	88-NSU-601-010		TERMINAL,ASSY
5	88-NSU-005-010		PANEL,TW ASSY
6	87-NSG-602-110		SPKR,W 160
7	83-MS2-603-310		SPKR,T 60
8	88-NSU-008-010		PROTECTOR,TW

SPEAKER PARTS LIST (SX-NA502 <YUSTNL>)

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

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	86-NS5-012-010		BADGE,AIWA 35
2	87-NS7-608-010		SPKR W140
3	87-NS7-610-010		SPKR T60
4	87-NS7-611-010		CORD,SPKR
5	87-NSH-612-010		SPKR,CERAMIC ASSY
6	88-NSJ-001-010		PANEL,FR

SPEAKER PARTS LIST (SX-CR675 <YSTNC, YSTNCC>)

NOTE: This SX-CR675 speaker contains SX-C605 (center speaker) and SX-R275 (rear speaker).

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

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	87-YS3-001-010		PANEL,FRONT ST(C605)
2	87-YS3-003-010		GRILLE,FRAME ASSY(C605)
3	83-NSM-010-010		SPEAKER CORD(C605)
4	87-YS7-602-010		SPKR,100(C605)
5	87-YS1-001-010		CABI,REAR(R275)
6	87-YS1-004-010		GRILLE FRAME ASSY(R275)
7	87-YS1-002-010		GRILLE,FRAME(R275)
8	81-VSA-009-010		CORD BUSH(R275)
9	87-YS6-002-010		SPKR, CORD Y(R275)
10	87-YS6-601-010		SPKR, 100(R275)
11	87-010-384-010		CAP,E 100-25 SME(R275)
12	87-YS8-906-010		IB,Y(9L)O(R275)

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-NFU-903-110		IB,U(ESF)M<U>
1	88-NFU-906-010		IB,E(9L)E<EZ>
2	87-006-225-010		AM LOOP ANT NC2
3	87-043-106-010		ANT,FM 1007 AWG<EZ>
4	87-043-115-010		FEEDER-ANT,FM<U>
5	87-NFR-610-010		RC UNIT,RC-7AS09

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

MECHANICAL SECTION

DESCRIPTION	REFERENCE NAME
ADHESHIVE	SHEET ADHESHIVE
AZ	AZIMUTH
BAR-ANT	BAR-ANTENNA
BAT	BATTERY
BATT	BATTERY
BRG	BEARING
BTN	BUTTON
CAB	CABINET
CASS	CASSETTE
CHAS	CHASSIS
CLR	COLLAR
CONT	CONTROL
CRSR	CURSOR
CU	CUSHION
CUSH	CUSHION
DIR	DIRECTION
DUBB	DUBBING
FL	FRONT LOADING
FLY-WHL	FLYWHEEL
FR	FRONT
FUN	FUNCTION
G-CU	G-CUSHION
HDL	HANDOL
HIMERON	CLOTH
HINGE, BAT	HINGE, BATTERY
HLDR	HOLDER
HT-SINK	HEAT SINK
IB	INSTRUCTION BOOKLET
IDLE	IDLER
IND, L-R	INDICATOR, L-R
KEY, CONT	KEY, CONTROL
KEY, PRGM	KEY, PROGRAM
KNOB, SL	KNOB, SLIDE
LBL	LABEL
LID, BATT	LID, BATTERY
LID, CASS	LID, CASSETTE
LVR	LEVER
P-SP	P-SPRING
PANEL, CONT	PANEL, CONTROL
PANEL, FR	PANEL, FRONT
PRGM	PROGRAM
PULLY, LOAD MO	PULLY, LOAD MOTOR
RBN	RIBBON
S-	SPECIAL
SEG	SEGMENT
SH	SHEET
SHLD-SH	SHIELD-SHEET
SL	SLIDE
SP	SPRING
SP-SCREW	SPECIAL-SCREW
SPACER, BAT	SPACER, BATTERY
SPR	SPRING
SPR-P	P-SPRING
SPR-PC-PUSH	P-SPRING, C-PUSH
T-SP	T-SPRING
TERM	TERMINAL
TRIG	TRIGGER
TUN	TUNING
VOL	VOLUME
W	WASHER
WHL	WHEEL
WORM-WHL	WORM-WHEEL

サービス技術ニュース	
番号	連絡内容
G－ －	
G－ －	
G－ －	

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