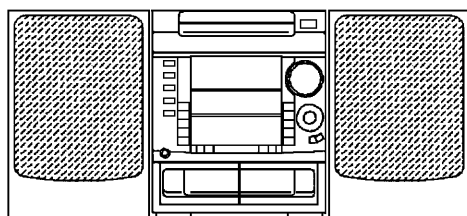


aiwa



NSX-F9 NSX-F98 NSX-F99 NSX-F12 NSX-F15



COMPACT DISC STEREO
CASSETTE RECEIVER

- BASIC TAPE MECHANISM : 2ZM-3MK2 PR4NM
- BASIC CD MECHANISM : 6ZG-1 SDFNM, SDF

- TYPE : LHA,HRA,EZA,KA,VA(9),
UA(98,99),HD(9),LH(12,15)

SUPPLEMENT

SYSTEM	CD - CASSEIVER	SPEAKER	REMOTE CONTROLLER
NSX-F9	CX-NF9 (TYPE:LHA,HRA,HD, EZA,KA,VA)	SX-NAVF9	RC UNIT, 6AS01
NSX-F98	CX-NF98 (TYPE:UA)	SX-FNF98	
NSX-F99	CX-NF99 (TYPE:UA)	SX-NAVF99	
NSX-F12	CX-NF12 (TYPE:LH)	SX-SNAVF12	
NSX-F15	CX-NF15 (TYPE:LH)	SX-NAVF9 SX-R280	

- If requiring information about the CD mechanism, see Service Manual of 6ZG-1.
(S/M Code No.09-975-198-00T)
- These models have many changes, especially circuit and wiring diagrams as compared with the previous Service Manual as shown in the following :

NSX-F9 (LH,HE)	S/M code No. 09-96B-173-5FP
NSX-F9 (HR)	S/M code No. 09-971-178-5FP
NSX-F9/98/99 (EZ,K:9,U:98,99)	S/M code No. 09-971-178-4FP
NSX-F9 (V)	S/M code No. 09-972-182-1FP

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SPECIFICATIONS <9(EZ,K,V),98U,99U>

<FM Tuner section>

Tuning range	V: FM1 (OIRT) 65 MHz to 74 MHz (10 kHz step) FM2 (CCIR) 87.5 MHz to 108 MHz (50 kHz step) EZ,K,U: 87.5 MHz to 108 MHz
Usable sensitivity(IHF)	V: FM1 (OIRT) 15.3 dBf FM2 (CCIR) 12.8 dBf U: 13.2 dBf EZ,K: 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,K,V)

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

<Amplifier section>

*Power output	V: Rated 160 W + 160 W (6 ohms, T.H.D.1%,1 kHz) Reference: 200 W + 200 W (6 ohms, T.H.D.10%,1 kHz) EZ,K: Rated 160 W + 160 W (6 ohms,T.H.D.1%,1 kHz/DIN 45500) Reference: 200 W + 200 W (6 ohms,T.H.D.10%,1 kHz/DIN 45324) DIN MUSIC POWER 280 W + 280 W
----------------------	---

*(without connecting to the SURROUND SPEAKERS)

Total harmonic distortion	U: 160 W + 160 W (50 Hz-20 kHz, THD less than 1%, 6 ohms)
----------------------------------	---

	EZ,K,V: 0.1% (20 W, 1 kHz, 6 ohms, DIN AUDIO)
--	--

Inputs	U: 0.1% (20 W, 1 kHz, 6 ohms) VIDEO/AUX : 210 mV(adjustable) MIC 1,MIC 2: 1.4mV (10 kohms)
---------------	--

Outputs	LINE OUT: 200mV SUPER WOOFER: 3.1 V SPEAKERS: accept speakers of 6 ohms or more SURROUND SPEAKERS: accept speakers of 16 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	CRo ₂ tape: 50 Hz – 16000 Hz Normal tape: 50 Hz –15000 Hz
Signal-to noise ratio	60 dB (Dolby B NR ON, CrO ₂ tape peak level)
Recording system	AC bias
Heads	Deck 1 : playback head x 1 Deck 2 : Recording/Playback/ erase head x 1

<Compact disc player section>

Laser	Semiconductor laser (λ =780 nm)
D-A converter	1 bit dual
Signal-to-noise ratio	83 dB (1 kHz, 0 dB)
Harmonic distortion	0.05 % (1 kHz, 0 dB)
Wow and flutter	Unmeasurable

<Speaker system SX-NAVF9> (EZ,K,V)

<Speaker system SX-NAVF99> (99U)	
Cabinet type	3 way, bass reflex (magnetic shielded type)
Speakers	Woofer : 160 mm cone type Tweeter : 80 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)	260 x 353 x 330mm (10 ¹ / ₄ x 14 x 13 in.)
Weight	5.9 kg (13 lbs.)

<Speaker system SX-FNF98> (98U)

Cabinet type	3 way, bass reflex with surround speaker (magnetic shielded type)
Speakers	Woofer : 160 mm cone type Tweeter : 80 mm cone type Super tweeter: 20 mm ceramic type Surround speaker: 80 mm cone type
Impedance	Front speaker: 6 ohms Surround speaker: 16 ohms
Output sound pressure level	87 dB/W/m
Dimensions (W x H x D)	260 x 353 x 310mm (10 ¹ / ₄ x 14 x 12 ¹ / ₄ in.)
Weight	5.8 kg (12 lbs. 13 oz.)

<General> (EZ,K,V)

Power requirements	230 V AC,50 Hz
Power consumption	210 W
Dimensions of main unit (W x H x D)	300 x 357.5 x 374 mm
Weight of main unit	12 kg

<General> (U)

Power requirements	120 V AC,60 Hz
Power consumption	165 W
Dimensions of main unit (W x H x D)	300 x 357.5 x 374 mm (11 ⁷ / ₈ x 14 ¹ / ₈ x 14 ³ / ₄ in.)
Weight of main unit	12 kg (26 lbs. 8 oz.)

• Design and specifications are subject to change without notice.

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

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

SPECIFICATIONS <9(LH,HR,HD),12LH,15LH>

<FM Tuner section>

Tuning range

HD:

76 MHz to 108 MHz

EXCEPT HD:

87.5 MHz to 108 MHz

Usable sensitivity(IHF)

HD: 12.8 dBf

EXCEPT HD: 13.2 dBf

Antenna terminals

75 ohms (unbalanced)

<MW Tuner section>

Tuning range

531 kHz to 1602 kHz (9 kHz step)

530 kHz to 1710 kHz (10 kHz step)

Usable sensitivity

350 uV/m

Antenna

Loop antenna

<SW Tuner section> (HR)

Tuning range

5.900 MHz to 17.900 MHz

Antenna

Wire antenna

<Amplifier section>

*Power output

Rated 160 W + 160 W

(6 ohms, T.H.D.1%, 1 kHz)

Reference: 200 W + 200 W

(6 ohms, T.H.D.10%, 1 kHz)

*(without connecting to the SURROUND SPEAKERS)

Total harmonic distortion

0.1% (20 W, 1 kHz, 6 ohms, DIN AUDIO)

Inputs

VIDEO/AUX : 210mV (adjustable)

MIC 1, MIC 2: 1.4mV (10 kohms)

Outputs

LINE OUT: 200mV

SUPER WOOFER: 3.1 V

SPEAKERS: accept speakers of 6 ohms or more

SURROUND SPEAKERS:

accept speakers of 16 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

CrO₂ tape: 50 Hz – 16000 Hz

Normal tape: 50 Hz – 15000 Hz

Signal-to noise ratio

60 dB (Dolby B NR ON, CrO₂ tape peak level)

Recording system

AC bias

Heads

Deck 1 : playback head x 1

Deck 2 : Recording/Playback/

erase head x 1

<Compact disc player section>

Laser

Semiconductor laser (λ = 780 nm)

D-A converter

1 bit dual

Signal-to-noise ratio

85 dB (1 kHz, 0 dB)

Harmonic distortion

0.05 % (1 kHz, 0 dB)

Wow and flutter

Unmeasurable

<Speaker system SX-SNAVF12> (12LH)

<Speaker system SX-NAVF9> (EXCEPT 12LH)

Cabinet type

3 way, bass reflex

(magnetic shielded type)

Speakers

Woofer :

160 mm cone type

Tweeter :

80 mm cone type

Super tweeter:

20 mm ceramic type

6 ohms

Impedance

Output sound pressure level 87 dB/W/m

Dimensions (W x H x D)

260 x 353 x 330mm

Weight

5.9 kg

<General>

Power requirements

HD:

AC 100-120V or 200-240 V

switchable 50/60 Hz

EXCEPT HD:

120 V / 220 – 230 V / 240 V AC,

switchable 50/60 Hz

210 W

Power consumption

Dimensions of main unit

(W x H x D)

300 x 357.5 x 374 mm

Weight of main unit

HR, HD: 12 kg

LH: 13 kg

- Design and specifications are subject to change without notice.

- Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation.
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- The word "BBE" and the "BBE symbol" are trademarks of BBE Sound, Inc.
Under license from BBE Sound, Inc.

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.

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

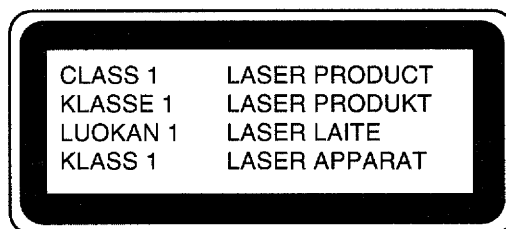
L'utilisation de commandes, réglages ou procédures autres que ceux spécifiés peut entraîner une dangereuse exposition aux radiations.

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.

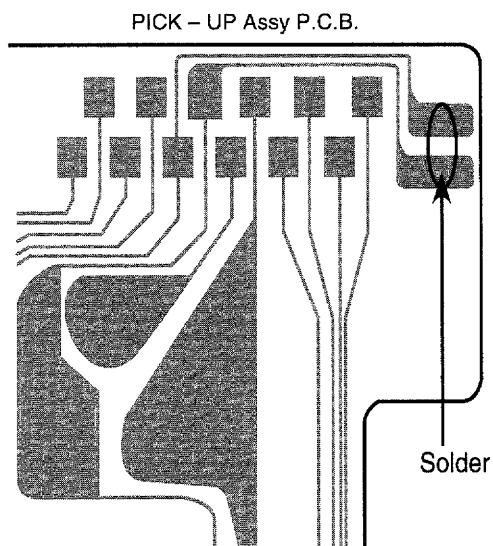


Precaution to replace Optical block

(KSS-213B)

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

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



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				MAIN C.B			
	87-020-454-010		IC, DN6851	C101	87-A10-231-090		CAP, E 3300-80
	86-NFW-620-010		C-IC, LC866556W-5E74<EXCEPT EZ>	C102	87-A10-231-090		CAP, E 3300-80
	86-NF9-622-010		C-IC, LC866560W-5E98<EZ>	C103	87-016-658-090		CAP, E 4700-35 SMG
	87-A20-154-010		IC, SPS-444-1	C104	87-016-658-090		CAP, E 4700-35 SMG
	87-A20-455-010		IC, HA12211	C105	87-012-368-080		C-CAP, S 0.1-50 F
	87-A20-355-010		IC, CXA1553P	C106	87-012-368-080		C-CAP, S 0.1-50 F
	87-070-232-010		IC, BA3834S	C107	87-012-368-080		C-CAP, S 0.1-50 F
	87-A20-056-010		IC, BA3880S	C108	87-012-368-080		C-CAP, S 0.1-50 F
	87-017-915-080		IC, BU4094BCF	C109	87-010-196-080		CHIP CAPACITOR, 0.1-25
	87-A20-456-040		C-IC, BH3810 FS	C110	87-010-196-080		CHIP CAPACITOR, 0.1-25
	87-A20-613-040		C-IC, BU9262AFS	C111	87-010-196-080		CHIP CAPACITOR, 0.1-25
	87-017-888-080		IC, NJM4558MD	C112	87-010-196-080		CHIP CAPACITOR, 0.1-25
	87-A20-437-010		C-IC, M62431FP	C113	87-010-247-080		CAP, ELECT 100-50V
	86-NFZ-655-010		IC, LC27131D(Z)	C114	87-010-384-080		CAP, ELECT 100-25V<EXCEPT U>
	87-A20-438-010		IC, LA1837	C115	87-010-384-080		CAP, ELECT 100-25V<EXCEPT U>
	87-A20-450-040		C-IC, BH 3864 F	C116	87-010-247-080		CAP, ELECT 100-50V
	87-A20-440-040		IC, BU1920FS<EZ>	C117	87-010-430-080		CAP, ELECT 100-63
	87-070-060-040		C-IC, TA2040AF<HD>	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
TRANSISTOR				C121	87-012-140-080		CAP 470P
	87-026-463-080		TR, 2SA933SRS	C122	87-010-263-080		CAP, ELECT 100-10V<U>
	89-213-702-010		TR, 2SB1370 (1.8W)	C123	87-010-247-080		CAP, ELECT 100-50V
	87-A30-075-080		C-TR, 2SA1235F	C124	87-010-112-080		CAP, ELECT 100-16V
	87-026-610-080		TR, KTC3198GR	C125	87-010-235-080		CAP, E 470-16 SME
	87-A30-076-080		C-TR, 2SC3052F				
	87-A30-073-080		C-TR, RT1N 141C	C126	87-012-368-080		C-CAP, S 0.1-50 F<EZ, K>
	87-A30-083-080		TR, CSD1489B	C127	87-012-368-080		C-CAP, S 0.1-50 F<EZ, K>
	87-026-609-080		TR, KTA1266GR	C129	87-010-393-080		CAP, ELECT 100-35V
	87-A30-086-070		C-TR, CSD1306E	C200	87-012-368-080		C-CAP, S 0.1-50 Z F
	87-A30-106-070		C-TR, CMBT5551	C201	87-010-401-080		CAP, ELECT 1-50V
	87-026-263-080		C-TR, RN1410	C202	87-010-401-080		CAP, ELECT 1-50V
	87-A30-111-080		TR, C2N5401	C205	87-010-178-080		C-CAP, S 1000P-50 B
	87-A30-097-010		TR, FN 1016	C206	87-010-178-080		C-CAP, S 1000P-50 B
	87-A30-098-010		TR, FP 1016	C207	87-010-404-080		CAP, ELECT 4.7-50V
	87-A30-089-010		FET, 2SK2723	C208	87-010-404-080		CAP, ELECT 4.7-50V
	87-A30-072-080		C-TR, RT1P 144C	C209	87-010-404-080		CAP, ELECT 4.7-50V
	87-A30-087-080		C-FET, 2SK2158	C210	87-010-404-080		CAP, ELECT 4.7-50V
	87-A30-074-080		C-TR, RT1P 141C	C211	87-010-186-080		CAP, CHIP 4700P
	89-112-965-080		TR, 2SA1296 (0.75W)	C212	87-010-186-080		CAP, CHIP 4700P
	87-A30-071-080		C-TR, RT1N 144C	C213	87-010-260-080		CAP, ELECT 47-25V
	87-026-228-080		C-TR, DTA124EK	C214	87-010-260-080		CAP, ELECT 47-25V
	87-A30-084-080		TR, CSB1058B	C215	87-010-196-080		C-CAP, S 0.1-25 Z F
	87-026-232-080		TR, DTA144WK	C219	87-012-368-080		C-CAP, S 0.1-50 F
	87-A30-085-070		C-TR, CSA1362GR	C220	87-012-368-080		C-CAP, S 0.1-50 F
	89-505-434-540		C-FET, 2SK543-TB(4/5)<HR, EZ, K, V>	C221	87-012-368-080		C-CAP, S 0.1-50 F
	87-026-226-080		C-TR, DTA143EK<HD>	C222	87-012-368-080		C-CAP, S 0.1-50 F
	89-327-143-080		C-TR, 2SC2714(O)	C223	87-010-194-080		CAP, CHIP 0.047<EXCEPT EZ, K>
DIODE				C225	87-A10-516-080		C-CAP, S 100P-200 J CH
	87-A40-003-080		ZENER, MTZJ4.3A	C226	87-A10-516-080		C-CAP, S 100P-200 J CH
	87-A40-246-080		DIODE, 1N4148 T-72	C227	87-010-197-080		CHIP CAP 0.01 DM<EZ, K>
	87-017-654-060		DIODE, GBU6J				
	87-A40-269-080		C-DIODE, MC2836	C228	87-010-178-080		CHIP CAP 1000P<EZ, K>
	87-017-437-080		DIODE, 1N4148M	C229	87-016-461-080		C-CAP, S 0.47-16 Z F
	87-A40-270-080		C-DIODE, MC2838	C230	87-016-461-080		C-CAP, S 0.47-16 Z F
	87-070-274-080		DIODE, 1N4003 SEM	C231	87-010-176-080		C-CAP, S 680P-50 SL<EZ, K>
	87-A40-211-080		ZENER UZ36BSA	C232	87-010-176-080		C-CAP, S 680P-50 SL<EZ, K>
	87-A40-206-080		ZENER, UZ10BSC	C233	87-010-318-080		C-CAP, S 47P-50 CH<EZ, K>
	87-A40-004-080		ZENER, MTZJ16A	C234	87-010-318-080		C-CAP, S 47P-50 CH<EZ, K>
	87-A40-382-080		C-DIODE, RB705D	C235	87-010-191-080		C-CAP, S 0.015-50 FZ GRM<EZ, K>
	87-A40-205-080		ZENER, UZ6.2BSC	C236	87-010-191-080		C-CAP, S 0.015-50 FZ GRM<EZ, K>
	87-A40-202-080		ZENER, UZ5.1BSB	C237	87-010-197-080		CHIP CAP 0.01 DM<EZ, K>
	87-A40-274-010		DIODE, FMB-G16L	C238	87-010-197-080		CHIP CAP 0.01 DM<EZ, K>
	87-017-481-080		ZENER, UZ5.6BSB	C239	87-010-318-080		C-CAP, S 47P-50 CH<EZ, K>
	87-A40-192-080		ZENER, UZ4.3BSA	C240	87-010-318-080		C-CAP, S 47P-50 CH<EZ, K>
	87-A40-239-080		ZENER, UZ5.6 BSA	C242	87-010-405-080		CAP, ELECT 10-50V
				C243	87-016-461-080		C-CAP, S 0.47-16 Z F
				C301	87-010-318-080		C-CAP, S 47P-50 CH
				C302	87-010-318-080		C-CAP, S 47P-50 CH

REF.NO.	PART NO.	KANRI NO.	DESCRIPTION	REF.NO.	PART NO.	KANRI NO.	DESCRIPTION
C303	87-012-157-080		C-CAP,S 330P-50 CH	C421	87-010-401-080		CAP, ELECT 1-50V
C304	87-012-157-080		C-CAP,S 330P-50 CH	C422	87-010-401-080		CAP, ELECT 1-50V
C305	87-012-145-080		CAP, CHIP S 270P CH	C516	87-010-196-080		CHIP CAPACITOR,0.1-25
C306	87-012-145-080		CAP, CHIP S 270P CH	C605	87-010-180-080		C-CER 1500P
C307	87-010-196-080		CHIP CAPACITOR,0.1-25	C606	87-010-180-080		C-CER 1500P
C311	87-010-198-080		CAP, CHIP 0.022	C609	87-010-322-080		C-CAP,S 100P-50 CH<EZ,K>
C312	87-010-198-080		CAP, CHIP 0.022	C610	87-010-322-080		C-CAP,S 100P-50 CH<EZ>
C313	87-010-180-080		C-CER 1500P	C611	87-010-196-080		CHIP CAPACITOR,0.1-25
C314	87-010-180-080		C-CER 1500P	C613	87-010-404-080		CAP, ELECT 4.7-50V
C315	87-010-178-080		CHIP CAP 1000P	C614	87-010-404-080		CAP, ELECT 4.7-50V
C316	87-010-178-080		CHIP CAP 1000P	C615	87-010-183-080		C-CAP,S 2700P-50 B
C317	87-012-142-080		CAP, S 0.33-16	C619	87-010-263-080		CAP, ELECT 100-10V
C318	87-012-142-080		CAP, S 0.33-16	C620	87-010-196-080		CHIP CAPACITOR,0.1-25
C319	87-012-141-080		CHIP-CAPACITOR,0.22-16F	C621	87-010-263-080		CAP, ELECT 100-10V
C320	87-012-141-080		CHIP-CAPACITOR,0.22-16F	C622	87-010-196-080		CHIP CAPACITOR,0.1-25
C321	87-012-141-080		CHIP-CAPACITOR,0.22-16F	C623	87-010-194-080		CAP, CHIP 0.047
C322	87-012-141-080		CHIP-CAPACITOR,0.22-16F	C629	87-012-368-080		C-CAP,S 0.1-50 F
C324	87-010-260-080		CAP, ELECT 47-25V	C630	87-012-368-080		C-CAP,S 0.1-50 F<EZ,K>
C325	87-010-370-080		CAP,E 330-6.3 SME	C631	87-016-247-080		C-CAP,0.1-50 F<EZ,K>
C327	87-010-404-080		CAP, ELECT 4.7-50V	C632	87-010-197-080		CAP, CHIP 0.01 DM<EZ,K>
C328	87-010-404-080		CAP, ELECT 4.7-50V	C633	87-010-197-080		CAP, CHIP 0.01 DM<EZ,K>
C332	87-010-196-080		CHIP CAPACITOR,0.1-25	C636	87-010-322-080		C-CAP,S 100P-50 CH<EZ,K>
C335	87-010-401-080		CAP, ELECT 1-50V	C637	87-010-322-080		C-CAP,S 100P-50 CH<EZ,K>
C336	87-010-401-080		CAP, ELECT 1-50V	C646	87-010-322-080		C-CAP,S 100P-50 CH
C337	87-010-196-080		CHIP CAPACITOR,0.1-25	C647	87-010-322-080		C-CAP,S 100P-50 CH
C339	87-010-196-080		CHIP CAPACITOR,0.1-25	C699	87-018-209-080		CAP,TC-U 0.1-50 Z F
C340	87-010-196-080		CHIP CAPACITOR,0.1-25	C701	87-010-381-080		CAP, ELECT 330-16V
C351	87-012-140-080		CAP 470P	C702	87-010-404-080		CAP, ELECT 4.7-50V
C352	87-012-140-080		CAP 470P	C703	87-010-197-080		CAP, CHIP 0.01 DM
C354	87-010-175-080		CAP 560P	C704	87-010-197-080		CAP, CHIP 0.01 DM
C355	87-010-178-080		CHIP CAP 1000P	C711	87-010-263-080		CAP, ELECT 100-10V
C356	87-010-260-080		CAP, ELECT 47-25V	C712	87-010-196-080		CHIP CAPACITOR,0.1-25
C357	87-010-197-080		CAP, CHIP 0.01 DM	C713	87-010-197-080		CAP, CHIP 0.01 DM
C358	87-010-183-080		C-CAP,S 2700P-50 B	C714	87-010-197-080		CAP, CHIP 0.01 DM
C359	87-010-183-080		C-CAP,S 2700P-50 B	C715	87-010-322-080		C-CAP,S 100P-50 CH<EZ,K,V>
C360	87-010-183-080		C-CAP,S 2700P-50 B	C721	87-010-312-080		C-CAP,S 15P-50 CH
C370	87-010-196-080		CHIP CAPACITOR,0.1-25	C722	87-010-312-080		C-CAP,S 15P-50 CH
C371	87-010-179-080		CAP,CHIP S B1200P	C723	87-010-178-080		CHIP CAP 1000P
C372	87-010-179-080		CAP,CHIP S B1200P	C725	87-010-178-080		CHIP CAP 1000P
C373	87-010-179-080		CAP,CHIP S B1200P	C727	87-010-196-080		CHIP CAPACITOR,0.1-25
C374	87-010-179-080		CAP,CHIP S B1200P	C728	87-010-248-080		CAP, ELECT 220-10V
C375	87-010-545-080		CAP, ELECT 0.22-50V	C732	87-010-400-080		CAP, ELECT 0.47-50V<HD>
C376	87-010-545-080		CAP, ELECT 0.22-50V	C733	87-010-404-080		CAP, ELECT 4.7-50V<HD>
C378	87-010-196-080		CHIP CAPACITOR,0.1-25	C734	87-010-196-080		CHIP CAPACITOR,0.1-25<HD>
C381	87-010-197-080		CAP, CHIP 0.01 DM	C737	87-010-182-080		C-CAP,S 2200P-50 B<HD>
C382	87-010-318-080		C-CAP,S 47P-50 CH	C738	87-010-182-080		C-CAP,S 2200P-50 B<HD>
C383	87-010-197-080		CAP, CHIP 0.01 DM	C740	87-010-197-080		CAP, CHIP 0.01 DM<HD>
C384	87-010-402-080		CAP, ELECT 2.2-50V	C741	87-010-545-080		CAP, ELECT 0.22-50V<HD>
C385	87-010-184-080		CHIP CAPACITOR 3300P(K)	C742	87-012-140-080		C-CAP,S 470P-50 J CH<HD>
C386	87-010-196-080		CHIP CAPACITOR,0.1-25	C743	87-010-404-080		CAP, ELECT 4.7-50V<HD>
C388	87-010-154-080		CAP CHIP 10P<EXCEPT U>	C744	87-010-260-080		CAP, ELECT 47-25V<HD>
C401	87-010-187-080		CAP CHIP S5600P	C745	87-010-545-080		CAP, ELECT 0.22-50V<HD>
C402	87-010-187-080		CAP CHIP S5600P	C746	87-010-545-080		CAP, ELECT 0.22-50V<HD>
C403	87-010-405-080		CAP, ELECT 10-50V	C747	87-010-197-080		CAP, CHIP 0.01 DM<HD>
C404	87-010-405-080		CAP, ELECT 10-50V	C748	87-010-198-080		C-CAP,S 0.022-25 KB<HD>
C405	87-010-260-080		CAP, ELECT 47-25V	C749	87-010-101-080		CAP, ELECT 220-16V<HD>
C406	87-010-101-080		CAP, ELECT 220-16	C755	87-010-197-080		CAP, CHIP 0.01 DM
C407	87-010-188-080		CAP,CHIP 6800P	C756	87-010-197-080		CAP, CHIP 0.01 DM
C408	87-010-188-080		CAP,CHIP 6800P	C757	87-010-318-080		C-CAP,S 47P-50 CH
C409	87-012-140-080		CAP 470P	C758	87-010-149-080		C-CAP,S 5P-50 CH
C410	87-012-140-080		CAP 470P	C759	87-012-154-080		C-CAP,S 150P-50 CH<EZ,K,V>
C411	87-010-197-080		CAP, CHIP 0.01 DM	C760	87-012-154-080		C-CAP,S 150P-50 CH<EZ,K,V>
C412	87-010-197-080		CAP, CHIP 0.01 DM	C761	87-010-196-080		CHIP CAPACITOR,0.1-25
C413	87-010-195-080		C-CAP,S 0.068-25 F	C762	87-010-197-080		CAP, CHIP 0.01 DM
C414	87-010-195-080		C-CAP,S 0.068-25 F	C763	87-010-194-080		CAP, CHIP 0.047
C415	87-010-404-080		CAP, ELECT 4.7-50V	C765	87-010-197-080		CAP, CHIP 0.01 DM
C416	87-010-404-080		CAP, ELECT 4.7-50V	C766	87-010-197-080		CAP, CHIP 0.01 DM
C417	87-010-404-080		CAP, ELECT 4.7-50V	C767	87-010-405-080		CAP, ELECT 10-50V
C418	87-010-404-080		CAP, ELECT 4.7-50V	C768	87-010-197-080		CAP, CHIP 0.01 DM
C420	87-010-197-080		CAP, CHIP 0.01 DM<EZ,K>	C769	87-010-408-080		CAP, ELECT 47-50V

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
C770	87-015-821-080		C-CAP 0.047	C957	87-010-311-080		C-CAP,S 12P-50 J CH<EZ,K,V>
C771	87-010-407-080		CAP, ELECT 33-50V	C958	87-010-197-080		CAP, CHIP 0.01 DM<EZ,K,V>
C772	87-010-194-080		CAP, CHIP 0.047	C959	87-010-196-080		CHIP CAPACITOR,0.1-25
C773	87-010-196-080		CHIP CAPACITOR,0.1-25	C960	87-010-196-080		CHIP CAPACITOR,0.1-25
C774	87-010-263-080		CAP, ELECT 100-10V	C961	87-010-152-080		C-CAP,S 8P-50 CH
C775	87-010-404-080		CAP, ELECT 4.7-50V	C962	87-010-401-080		CAP, ELECT 1-50V<HR,EZ,K,V>
C776	87-010-197-080		CAP, CHIP 0.01 DM	CF801	87-008-261-010		FILTER,SFE10.7MA5-A<EXCEPT EZ,K,V>
C777	87-010-400-080		CAP, ELECT 0.47-50V	CF801	87-008-423-010		FILTER,IF SFE10.7MS3G-A<EZ,K,V>
C778	87-010-401-080		CAP, ELECT 1-50V	CF802	87-008-261-010		FILTER,SFE10.7MA5-A<EXCEPT EZ,K,V>
C779	87-010-401-080		CAP, ELECT 1-50V	CF802	87-785-747-010		CF MS2 GHY R<EZ,K,V>
C780	87-010-196-080		CHIP CAPACITOR,0.1-25	CON102	87-NF4-645-010		CONN ASSY 4P SP
C781	87-010-405-080		CAP, ELECT 10-50V	CON351	86-NF5-618-110		CONN ASSY,8P RPB
C782	87-010-405-080		CAP, ELECT 10-50V	FB301	87-008-372-080		FLTR,EM1BLO1 RN1<EZ,K>
C783	87-015-819-080		CAPACITOR,0.01	FB616	87-008-372-080		FLTR,EM1BLO1 RN1
C784	87-010-197-080		CAP, CHIP 0.01 DM	FB617	87-008-372-080		FLTR,EM1BLO1 RN1
C785	87-010-400-080		CAP, ELECT 0.47-50V	FB646	87-008-372-080		FLTR,EM1BLO1 RN1
C786	87-010-400-080		CAP, ELECT 0.47-50V	FFE801	A8-7ZA-290-030		7ZA-2 FEUNM<LH,HR,U>
C787	87-010-184-080		CHIP CAPACITOR 3300P(K)	FFE801	A8-6ZA-191-030		6ZA-1 FEENM<EZ,K>
C788	87-010-184-080		CHIP CAPACITOR 3300P(K)	FFE801	A8-6ZA-193-030		6ZA-1 FEVNM<V>
C789	87-010-179-080		CAP,CHIP S B1200P	FFE801	A8-6ZA-19D-070		6ZA-1 YFEJNC<HD>
C790	87-010-179-080		CAP,CHIP S B1200P	J252	87-A60-031-010		JACK,6.3 BLK ST W/S
C791	87-010-405-080		CAP, ELECT 10-50V	J253	87-099-474-010		JACK,PIN 3P BLK W/SW<EXCEPT EZ>
C793	87-010-178-080		CHIP CAP 1000P<EXCEPT EZ>	J253	87-A60-401-010		JACK,PIN 3P B/R/W HS<EZ,K,V>
C793	87-012-156-080		C-CAP,S 220P-50<EZ>	J254	87-A60-238-010		TERMINAL,SP 4P (MSC)
C794	87-010-406-080		CAP, ELECT 22-50	J601	87-099-625-010		JACK PIN 4P,RVS (KM)
C795	87-010-596-080		CAP, S 0.047-16<EXCEPT HD>	J801	87-A60-202-010		TERMINAL,ANT 4P<EXCEPT EZ,K,V>
C796	87-010-403-080		CAP, ELECT 3.3-50V	J801	87-A60-403-010		TERMINAL,ANT PAL 2P<EZ,K>
C797	87-010-182-080		C-CAP,S 2200P-50 B<LH,U>	J801	87-033-239-010		TERMINAL,ANT 4P HSP-154<V>
C797	87-010-180-080		C-CAP,S 1500P-50 B<EXCEPT LH,U>	L201	87-003-383-010		COIL,1UH-S
C798	87-010-182-080		C-CAP,S 2200P-50 B<LH,U>	L202	87-003-383-010		COIL,1UH-S
C798	87-010-180-080		C-CAP,S 1500P-50 B<EXCEPT LH,U>	L301	87-A50-049-010		COIL,TRAP 85K(COI)
C799	87-010-194-080		CAP, CHIP 0.047	L302	87-A50-049-010		COIL,TRAP 85K(COI)
C812	87-010-197-080		CAP, CHIP 0.01 DM	L351	87-007-342-010		COIL,OSC 85K BIAS
C813	87-010-197-080		CAP, CHIP 0.01 DM	L601	87-003-231-080		C-COIL,2125 1UH
C814	87-010-197-080		CAP, CHIP 0.01 DM	L770	87-005-847-080		COIL,2.2UH(CECS)
C815	87-010-197-080		CAP, CHIP 0.01 DM	L771	87-A50-165-010		COIL,FM DET-N(TOK)
C816	87-010-197-080		CAP, CHIP 0.01 DM	L772	87-A90-245-010		FLTR,CFAZH-450(TOK)<EXCEPT HD,HR>
C817	87-010-197-080		CAP, CHIP 0.01 DM<EZ,K>	L772	87-A90-052-010		FLTR,CFMT-450A(TOK)<HD,HR>
C818	87-010-197-080		CAP, CHIP 0.01 DM<EZ,K>	L791	87-003-293-010		COIL, TRAP MPX<U,LH>
C819	87-010-197-080		CAP, CHIP 0.01 DM	L791	87-A50-027-010		COIL, 1 POLE MPX<EXCEPT U,LH>
C820	87-010-408-080		CAP, ELECT 47-50V	L792	87-003-293-010		COIL, TRAP MPX<U,LH>
C821	87-010-197-080		CAP, CHIP 0.01 DM	L792	87-A50-027-010		COIL, 1 POLE MPX<EXCEPT U,LH>
C822	87-010-197-080		CAP, CHIP 0.01 DM	L832	87-005-847-080		COIL,2.2UH(CECS)
C823	87-010-197-080		CAP, CHIP 0.01 DM	L850	87-005-847-080		COIL,2.2UH(CECS)<EZ>
C828	87-010-196-080		CHIP CAPACITOR,0.1-25	L940	81-754-629-010		CONNECTOR XH 2P(UL)<HR>
C829	87-010-196-080		CHIP CAPACITOR,0.1-25	L941	87-A50-020-010		COIL,ANT LW (COI)252KHZ<EZ,K,V>
C859	87-010-197-080		CAP, CHIP 0.01 DM<EZ>	L941	81-A50-022-010		COIL,ANT SW (COI)7.96MHZ<HR>
C861	87-012-156-080		C-CAP,S 220P-50 CH<EZ>	L942	81-A50-173-010		COIL,OSC SW-N (COI)<HR>
C862	87-012-156-080		C-CAP,S 220P-50 CH<EZ>	L942	87-A50-019-010		COIL,OSC LW (COI)856KHZ<EZ,K,V>
C863	87-012-140-080		CAP, 470P CH<EZ>	L943	87-005-372-080		COIL S 1MUH<HR>
C864	87-010-405-080		CAP, ELECT 10-50V<EZ>	L944	87-A50-159-010		COIL,10UH<HR>
C865	87-010-196-080		CHIP CAPACITOR,0.1-25<EZ>	L981	87-NF4-650-010		COIL,AM PACK 4N(TOK)<LH,U,HD>
C866	87-010-405-080		CAP, ELECT 10-50V<EZ>	L981	86-NF4-666-010		COIL,AM PACK 3(TOK)<HR>
C867	87-010-197-080		CAP, CHIP 0.01 DM<EZ>	L981	86-NF4-668-010		COIL,AM PACK 2(TOM)<EZ,K,V>
C868	87-010-316-080		C-CAP,S 33P-50 CH<EZ>	PR201	87-026-682-080		PROTECTOR,10A 60V 491<EXCEPT U>
C869	87-010-314-080		C-CAP,S 22P-50V CH<EZ>	PR201	87-026-691-080		FUSE,10A 125V 251<U>
C940	87-010-197-080		CAP, CHIP 0.01 DM<EZ,K,V,HR>	PR202	87-026-682-080		PROTECTOR,10A 60V 491<EXCEPT U>
C941	87-010-314-080		C-CAP,S 22P-50V CH<HR>	PR202	87-026-691-080		FUSE,10A 125V 251<U>
C942	87-010-151-080		C-CAP,S 7P-50 CH<EZ,K,V>	R123	87-022-200-080		RESISTOR,METAL 0.56 1W
C943	87-010-197-080		CAP, CHIP 0.01 DM<HR>	R231	87-A00-262-080		RES,M/F 0.15-2W J
C944	87-014-051-080		CAPACITOR (PP) 560P<HR>	R232	87-A00-262-080		RES,M/F 0.15-2W J
C945	87-010-197-080		CAP, CHIP 0.01 DM<HR>	RY101	87-045-389-010		RELAY,OSA-SS-212DM5
C947	87-010-197-080		CAP, CHIP 0.01 DM<EZ,K,V,HR>	RY201	87-045-382-010		RELAY,12V OUAZ-SH-112L
C949	87-014-049-080		CAP,PP 470P-100 J<EZ,K,V>	SFR301	87-024-435-080		SFR 33K RH 063EC
C950	87-014-073-080		CAP,PP 4700P-100 J<HR>	SFR302	87-024-435-080		SFR 33K RH 063EC
C952	87-010-197-080		CAP, CHIP 0.01 DM<EZ,K,V,HR>	SFR303	87-024-435-080		SFR 33K RH 063EC
C953	87-010-197-080		CAP, CHIP 0.01 DM<HR>	SFR304	87-024-435-080		SFR 33K RH 063EC
C954	87-010-404-080		CAP, ELECT 4.7-50V<HR>	SFR305	87-024-436-080		SFR,47K RH063EC
C956	87-010-197-080		CAP, CHIP 0.01 DM<EZ,K,V>	SFR306	87-024-436-080		SFR,47K RH063EC
C956	87-010-263-080		CAP,E 100-10V<HR>	SFR351	87-024-436-080		SFR,47K RH063EC

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SFR352	87-024-436-080		SFR,47K RH063EC	C705	87-010-493-040		CAP,E 0.47-50 GAS
TC941	87-011-220-080		TRIMMER,CER 20P 6.15X5.9<HR>	C706	87-010-196-080		CHIP CAPACITOR,0.1-25
TC942	87-011-221-080		TRIMMER,CER 30P<HR,EZ,K,V>	C707	87-010-196-080		CHIP CAPACITOR,0.1-25
TH201	87-A90-221-080		C-THMS,100K<EXCEPT U>	C708	87-010-400-040		CAP,E 0.47-50
TH202	87-A90-221-080		C-THMS,100K<EXCEPT U>	C709	87-010-198-080		CAP, CHIP 0.022
W4	88-906-261-110		FF-CABLE,6P 1.25 260MM	C710	87-010-400-040		CAP,E 0.47-50
X721	87-A70-061-010		VIB,XTAL 4.500MHZ CSA-309	C711	87-010-197-080		CAP, CHIP 0.01 DM
X750	87-030-394-010		VIB,CER 3.5498MHZ CSA-228<HD>	C712	87-010-196-080		CHIP CAPACITOR,0.1-25
X771	87-030-354-010		VIB,CER 450.0KHZ BFU<HR>	C713	87-010-185-080		C-CAP,S 3900P-50 B
X850	87-KT1-608-010		XTAL 4.332MHZ<EZ>	C714	87-010-596-080		CAP, S 0.047-16
FRONT C.B				C715	87-010-181-080		CAP,CHIP S 1800P
C121	87-010-196-080		CHIP CAPACITOR,0.1-25	C716	87-010-198-080		CAP, CHIP 0.022
C201	87-010-197-080		CAP, CHIP 0.01 DM	C717	87-010-176-080		C-CAP,S 680P-50 SL
C202	87-010-197-080		CAP, CHIP 0.01 DM	C718	87-010-188-080		CAP,CHIP 6800P
C203	87-010-198-080		CAP, CHIP 0.022	C719	87-012-145-080		CAP, CHIP S 270P CH
C204	87-010-198-080		CAP, CHIP 0.022	C720	87-010-183-080		C-CAP,S 2700P-50 B
C205	87-010-198-080		CAP, CHIP 0.022	C721	87-015-696-040		CAP,E 2.2-50 SRA
C206	87-010-198-080		CAP, CHIP 0.022	C722	87-015-696-040		CAP,E 2.2-50 SRA
C208	87-010-555-040		CAP,E 100-10 GAS	C723	87-015-681-040		E/CAP 10-16
C209	87-010-196-080		CHIP CAPACITOR,0.1-25	C724	87-010-198-080		CAP, CHIP 0.022
C210	87-010-494-040		CAP,E 1-50 GAS	C725	87-010-493-040		CAP,E 0.47-50 GAS
C211	87-010-196-080		CHIP CAPACITOR,0.1-25	C726	87-010-197-080		CAP, CHIP 0.01 DM
C212	87-A10-189-040		CAP,E 220-10	C727	87-010-196-080		CHIP CAPACITOR,0.1-25
C213	87-010-178-080		CHIP CAP 1000P	C728	87-010-185-080		C-CAP,S 3900P-50 B
C214	87-010-196-080		CHIP CAPACITOR,0.1-25	C729	87-010-596-080		CAP, S 0.047-16
C215	87-010-194-080		CAP, CHIP 0.047	C730	87-010-181-080		CAP,CHIP S 1800P
C216	87-010-197-080		CAP, CHIP 0.01 DM	C731	87-010-198-080		CAP, CHIP 0.022
C217	87-010-494-040		CAP,E 1-50 GAS	C732	87-010-176-080		C-CAP,S 680P-50 SL
C218	87-010-196-080		CHIP CAPACITOR,0.1-25	C733	87-010-188-080		CAP,CHIP 6800P
C219	87-010-196-080		CHIP CAPACITOR,0.1-25	C734	87-012-145-080		CAP, CHIP S 270P CH
C220	87-010-320-080		CHIP CAP 68P	C735	87-010-183-080		C-CAP,S 2700P-50 B
C221	87-010-312-080		C-CAP,S 15P-50 CH	C809	87-012-365-080		C-CAP,S 0.027-25VBK
C222	87-010-316-080		C-CAP,S 33P-50 CH	C810	87-012-365-080		C-CAP,S 0.027-25VBK
C224	87-010-112-040		CAP,E 100-16	C811	87-A10-201-080		C-CAP,S0.33-16 KB
C225	87-010-560-040		CAP,E 10-50 GAS	C812	87-A10-201-080		C-CAP,S0.33-16 KB
C226	87-010-178-080		CHIP CAP 1000P	C813	87-010-196-080		CHIP CAPACITOR,0.1-25
C351	87-010-497-040		CAP,E 4.7-35 GAS	C814	87-015-680-040		CAP,E 47-10 7L
C352	87-010-497-040		CAP,E 4.7-35 GAS	C815	87-010-234-040		CAP,E 47-16 5L
C353	87-010-981-040		CAP,E 22-35 5L SRE	C816	87-010-196-080		CHIP CAPACITOR,0.1-25
C363	87-012-156-080		C-CAP,S 220P-50 CH	C817	87-016-081-080		C-CAP,S 0.1-16 RK
C364	87-012-156-080		C-CAP,S 220P-50 CH	C818	87-010-560-040		CAP,E 10-50 GAS
C381	87-010-196-080		CHIP CAPACITOR,0.1-25	C901	87-010-319-080		C,CAP,S 56P-50 J CH
C382	87-010-196-080		CHIP CAPACITOR,0.1-25	C902	87-010-319-080		C,CAP,S 56P-50 J CH
C383	87-010-196-080		CHIP CAPACITOR,0.1-25	C903	87-012-141-080		C,CAP,S 0.22-16ZF
C384	87-010-196-080		CHIP CAPACITOR,0.1-25	C904	87-010-188-080		CAP CHIP 6800P
C385	87-010-322-080		C-CAP,S 100P-50 CH	C905	87-010-180-080		C,CAP,S 1500P-50 KB
C386	87-015-694-040		E/CAP 0.47-50	C906	87-010-197-080		CHIP CAPACITOR,0.0 1DM
C387	87-010-400-040		CAP,E 0.47-50	C907	87-010-197-080		CHIP CAPACITOR,0.0 1DM
C389	87-010-196-080		CHIP CAPACITOR,0.1-25	C908	87-010-188-080		CAP CHIP 6800P
C401	87-010-196-080		CHIP CAPACITOR,0.1-25	C909	87-010-181-080		CAP CHIP S 1800P
C402	87-010-196-080		CHIP CAPACITOR,0.1-25	C910	87-010-196-080		CHIP CAPACITOR,0.1-25
C403	87-010-196-080		CHIP CAPACITOR,0.1-25	C911	87-010-196-080		CHIP CAPACITOR,0.1-25
C601	87-010-405-040		CAP,E 10-50	C912	87-010-408-040		CAP,E 47-50 M SME
C602	87-010-176-080		C-CAP,S 680P-50 SL	C913	87-010-401-040		CAP,E 1-50 M SME
C603	87-010-186-080		CAP,CHIP 4700P	C914	87-010-494-040		CAP,E 1-50 5L SRE
C604	87-010-322-080		C-CAP,S 100P-50 CH	C915	87-010-184-080		C,CAP,S 3300P-50 KB
C605	87-010-321-080		CHIP CAPACITOR,82P(J)	C916	87-010-184-080		C,CAP,S 3300P-50 KB
C606	87-010-196-080		CHIP CAPACITOR,0.1-25	C917	87-012-141-080		C,CAP,S 0.22-16ZF
C607	87-010-196-080		CHIP CAPACITOR,0.1-25	C919	87-010-263-040		CAP,E 100-10 M SME
C608	87-010-322-080		C-CAP,S 100P-50 CH	C920	87-010-322-080		C-CAP,S 100P-50 J CH
C609	87-010-545-040		CAP,E 0.22-50 SME	C921	87-010-322-080		C-CAP,S 100P-50 J CH
C610	87-010-177-080		C-CAP,S 820P-50 SL	C922	87-010-322-080		C-CAP,S 100P-50 J CH
C611	87-010-406-040		CAP,E 22-50 SME	FB601	87-008-372-080		FILTER, EMI BL OIRNI
C614	87-010-248-040		CAP,E 220-10 SME	FL301	86-NF9-653-010		FL,BJ539GK
C615	87-010-498-040		CAP,E 10-16 GAS	FL302	86-NF9-616-010		FL,BJ504GK
C619	87-016-461-080		CHIP-CAPACITOR,0.47-16F	J601	87-A60-284-010		JACK,3.5MO (MSC)
C701	87-010-421-040		CAP,E 4.7-50 5L	J621	87-A60-284-010		JACK,3.5MO (MSC)
C702	87-010-112-040		CAP,E 100-16	L901	87-005-212-080		COIL,220UH K EL0606
				LED401	87-070-281-080		LED,SLZ736A-25-S-T1
				LED402	87-070-281-080		LED,SLZ736A-25-S-T1

REF.NO.	PART NO.	KANRI NO.	DESCRIPTION
LED403	87-070-281-080		LED,SLZ736A-25-S-T1
LED404	87-070-281-080		LED,SLZ736A-25-S-T1
LED405	87-070-281-080		LED,SLZ736A-25-S-T1
LED406	87-070-281-080		LED,SLZ736A-25-S-T1
LED407	87-017-979-010		LED,SEL2413E
LED408	87-017-979-010		LED,SEL2413E
LED409	87-017-979-010		LED,SEL2413E
LED410	87-017-979-010		LED,SEL2413E
LED411	87-017-979-010		LED,SEL2413E
LED412	87-017-979-010		LED,SEL2413E
LED413	87-017-979-010		LED,SEL2413E
LED414	87-017-979-010		LED,SEL2413E
LED420	87-A40-259-080		LED,SLR-342VCT31 RED
LED421	87-A40-259-080		LED,SLR-342VCT31 RED
LED422	87-A40-259-080		LED,SLR-342VCT31 RED
LED423	87-A40-259-080		LED,SLR-342VCT31 RED
LED425	87-070-278-010		LED,SLZ-738A-24-S
LED426	87-070-278-010		LED,SLZ-738A-24-S
LED427	87-070-290-010		LED,SLZ 936-30-S
LED428	87-070-290-010		LED,SLZ 936-30-S
LED429	87-070-278-010		LED,SLZ-738A-24-S
LED430	87-070-278-010		LED,SLZ-738A-24-S
△ PR101	87-026-689-080		PROTECTOR,1A 49 60 V<EXCEPT U>
R341	87-022-355-080		C-RES,S10K-1/10W F
R342	87-022-355-080		C-RES,S10K-1/10W F
R343	87-022-355-080		C-RES,S10K-1/10W F
S301	87-A90-095-080		SW,TACT EVQ11G04M
S302	87-A90-095-080		SW,TACT EVQ11G04M
S303	87-A90-095-080		SW,TACT EVQ11G04M
S304	87-A90-095-080		SW,TACT EVQ11G04M
S305	87-A90-095-080		SW,TACT EVQ11G04M
S306	87-A90-095-080		SW,TACT EVQ11G04M
S307	87-A90-095-080		SW,TACT EVQ11G04M
S308	87-A90-095-080		SW,TACT EVQ11G04M
S309	87-A90-095-080		SW,TACT EVQ11G04M
S310	87-A90-095-080		SW,TACT EVQ11G04M
S311	87-A90-095-080		SW,TACT EVQ11G04M
S312	87-A90-095-080		SW,TACT EVQ11G04M
S313	87-A90-095-080		SW,TACT EVQ11G04M
S314	87-A90-095-080		SW,TACT EVQ11G04M
S315	87-A90-095-080		SW,TACT EVQ11G04M
S316	87-A90-095-080		SW,TACT EVQ11G04M
S317	87-A90-095-080		SW,TACT EVQ11G04M
S318	87-A90-095-080		SW,TACT EVQ11G04M
S319	87-A90-095-080		SW,TACT EVQ11G04M
S320	87-A90-095-080		SW,TACT EVQ11G04M
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<EZ>
S327	87-A90-095-080		SW,TACT EVQ11G04M<EZ>
S328	87-A90-095-080		SW,TACT EVQ11G04M<EZ>
S329	87-A90-095-080		SW,TACT EVQ11G04M
S330	87-A90-095-080		SW,TACT EVQ11G04M
S331	87-A90-095-080		SW,TACT EVQ11G04M
S332	87-A90-095-080		SW,TACT EVQ11G04M
S333	87-A90-095-080		SW,TACT EVQ11G04M
S334	87-A90-095-080		SW,TACT EVQ11G04M
S335	87-A90-095-080		SW,TACT EVQ11G04M
S336	87-A90-095-080		SW,TACT EVQ11G04M
S337	87-A90-095-080		SW,TACT EVQ11G04M
SW201	87-A90-392-010		SW,RTRY EC16B24304-20 NON
VR601	86-NFA-607-010		VR,RTRY 10K15AX1 1 V XV0121PVN
W2	87-A80-052-010		FF-CABLE, 14P 1.25 280MM BLK
W3	87-A80-053-010		FF-CABLE, 8P 1.25 200MM BLK
W5	88-913-191-110		FF-CABLE,13P 1.25
W6	88-915-161-110		FF-CABLE, 15P 1.25
X201	87-A70-070-080		VIB,CER 5.76MHZ CRHF

VR C.B

SW202 87-A90-340-010 SW,RTRY EC16B24204-15

CD KEY C.B

LED451 87-017-979-010 LED,SEL2413E
LED452 87-017-979-010 LED,SEL2413E
LED453 87-017-979-010 LED,SEL2413E
LED454 87-017-979-010 LED,SEL2413E
LED455 87-017-979-010 LED,SEL2413E

LED456 87-017-979-010 LED,SEL2413E
LED457 87-017-979-010 LED,SEL2413E
LED458 87-017-979-010 LED,SEL2413E
LED459 87-017-979-010 LED,SEL2413E
LED460 87-017-979-010 LED,SEL2413E

S451 87-A90-095-080 SW,TACT EVQ11G04M
S452 87-A90-095-080 SW,TACT EVQ11G04M
S453 87-A90-095-080 SW,TACT EVQ11G04M
S454 87-A90-095-080 SW,TACT EVQ11G04M
S455 87-A90-095-080 SW,TACT EVQ11G04M

S456 87-A90-095-080 SW,TACT EVQ11G04M
S457 87-A90-095-080 SW,TACT EVQ11G04M

AC2 C.B

△ PR1 87-026-692-080 FUSE,10A 491 60V<LH,HR,HD>
△ PR1 87-026-691-080 FUSE,10A 125V 251<U>
△ PR1 87-026-682-080 PROTECTOR,10A 491 60V<EZ,K,V>
△ PR2 87-026-692-080 FUSE,10A 491 60V<LH,HR,HD>
△ PR2 87-026-691-080 FUSE,10A 125V 251<U>
△ PR2 87-026-682-080 PROTECTOR,10A 491 60V<EZ,K,V>
△ PR5 87-026-692-080 FUSE,10A 491 60V<LH,HR,HD>
△ PR5 87-026-691-080 FUSE,10A 125V 251<U>
△ PR5 87-026-682-080 PROTECTOR,10A 491 60V<EZ,K,V>
△ PR6 87-026-692-080 FUSE,10A 491 60V<LH,HR,HD>
△ PR6 87-026-691-080 FUSE,10A 125V 251<U>
△ PR6 87-026-682-080 PROTECTOR,10A 491 60V<EZ,K,V>
△ W1 85-NF5-628-010 F-CABLE 7P-2.5

PT C.B

△ F101 87-035-368-010 FUSE,4A 250V T<EXCEPT U>
△ F101 87-035-493-010 FUSE,8A 125V T-237<U>
△ F102 87-035-368-010 FUSE,4A 250V T<LH,HR,HD>
△ FC1 87-033-213-080 CLAMP, FUSE
△ FC2 87-033-213-080 CLAMP, FUSE
△ FC3 87-033-213-080 CLAMP, FUSE<LH,HR,HD>
△ FC4 87-033-213-080 CLAMP, FUSE<LH,HR,HD>
△ PT101 86-NF9-636-010 PT,6NF-9 LH N<LH>
△ PT101 86-NF9-635-010 PT,6NF-9 HN<HR>
△ PT101 86-NF9-637-010 PT,6NF-9 EN<EZ,K,V>
△ PT101 86-NF9-638-010 PT,6NF-9 UN<U>
△ PT101 86-NF9-639-010 PT,6NF-9 HD N<HD>
△ T1 87-A60-317-010 TERMINAL, 1P MSC
△ T2 87-A60-317-010 TERMINAL, 1P MSC
△ SW101 87-A90-165-010 SW,SL1-2-3 SW S 2301<LH,HR>
△ SW101 87-A90-234-010 SW,SL1-2-2<HD>

DECK C.B

W001 82-ZM3-601-019 RBN,CORD,4P-75
SFR1 87-024-581-019 SFR,3.3K DIA 6H
SOL1 82-ZM1-618-310 SOL ASSY, 27
SOL2 82-ZM1-618-310 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

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
SW6	87-036-110-010	SW,MICRO	SPPB62
SW8	87-A90-248-019	SW,MICRO	ESE11SH2CXQ
SW9	87-036-110-010	SW,MICRO	SPPB62
CON502	87-099-756-019	CONN, 15P	9604 S F

HEAD-1 C.B

85-ZM3-602-010 PWB,FLEX A

HEAD-2 C.B

85-ZM3-602-010 PWB,FLEX A

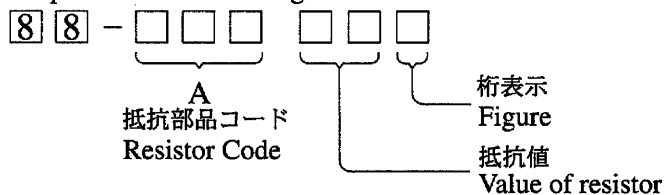
FAN C.B

RY103 87-A90-143-010 RELAY,DG12D2-OS(M)<U>

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



E C B

2SA1296GR
KTA1266GR
KTC3198GR



E C B

CSD1489B
CSB1058B



E B C

C2N5401



E C B

2SA933S



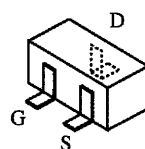
B C E

2SB1370
FN1016
FP1016

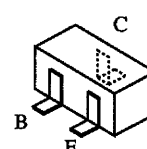


G D S

2SK2723



2SK2158
2SK543



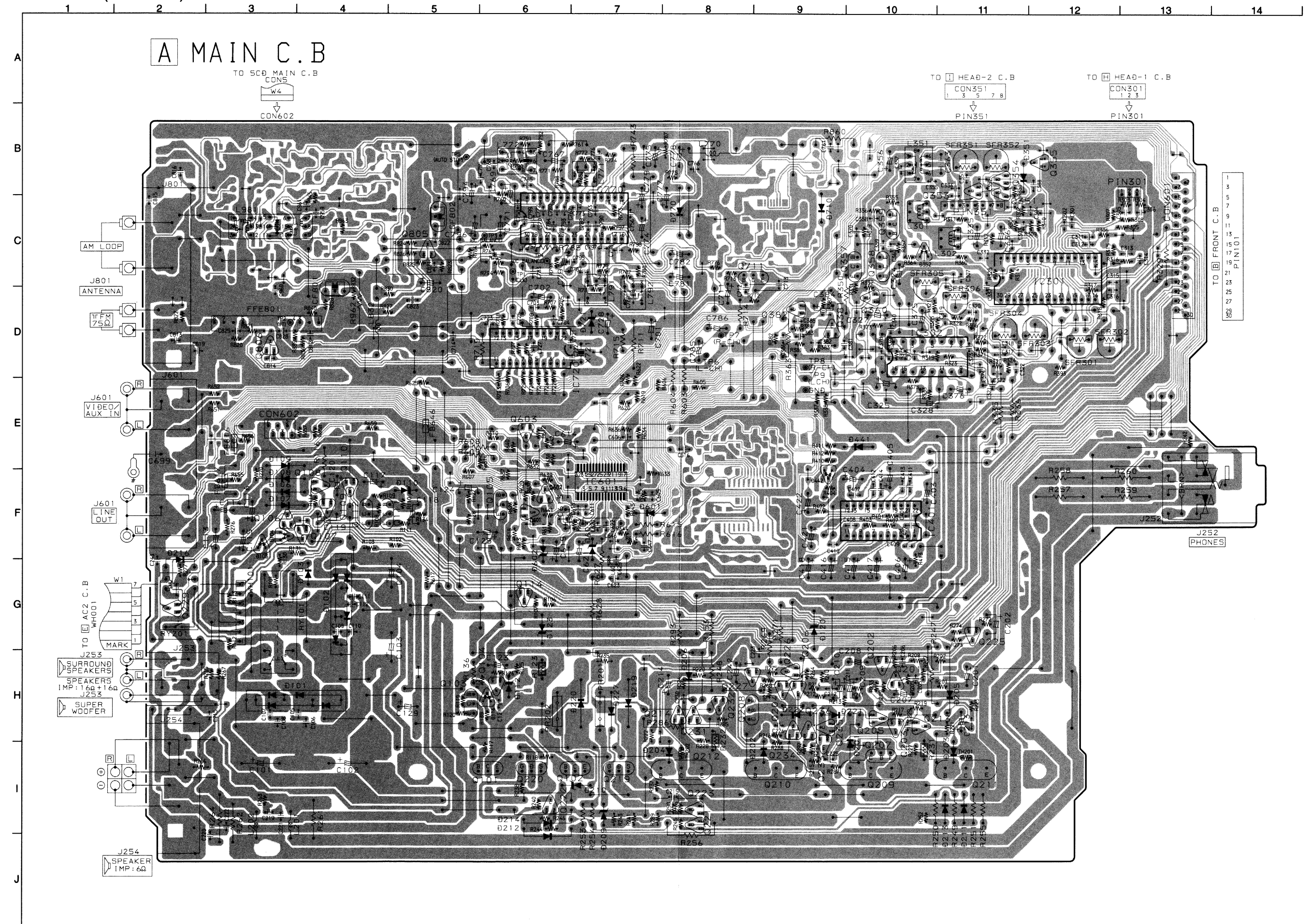
2SA1235F
2SC2714
2SC3052F
CMBT5551
CSA1362GR
CSD1306E

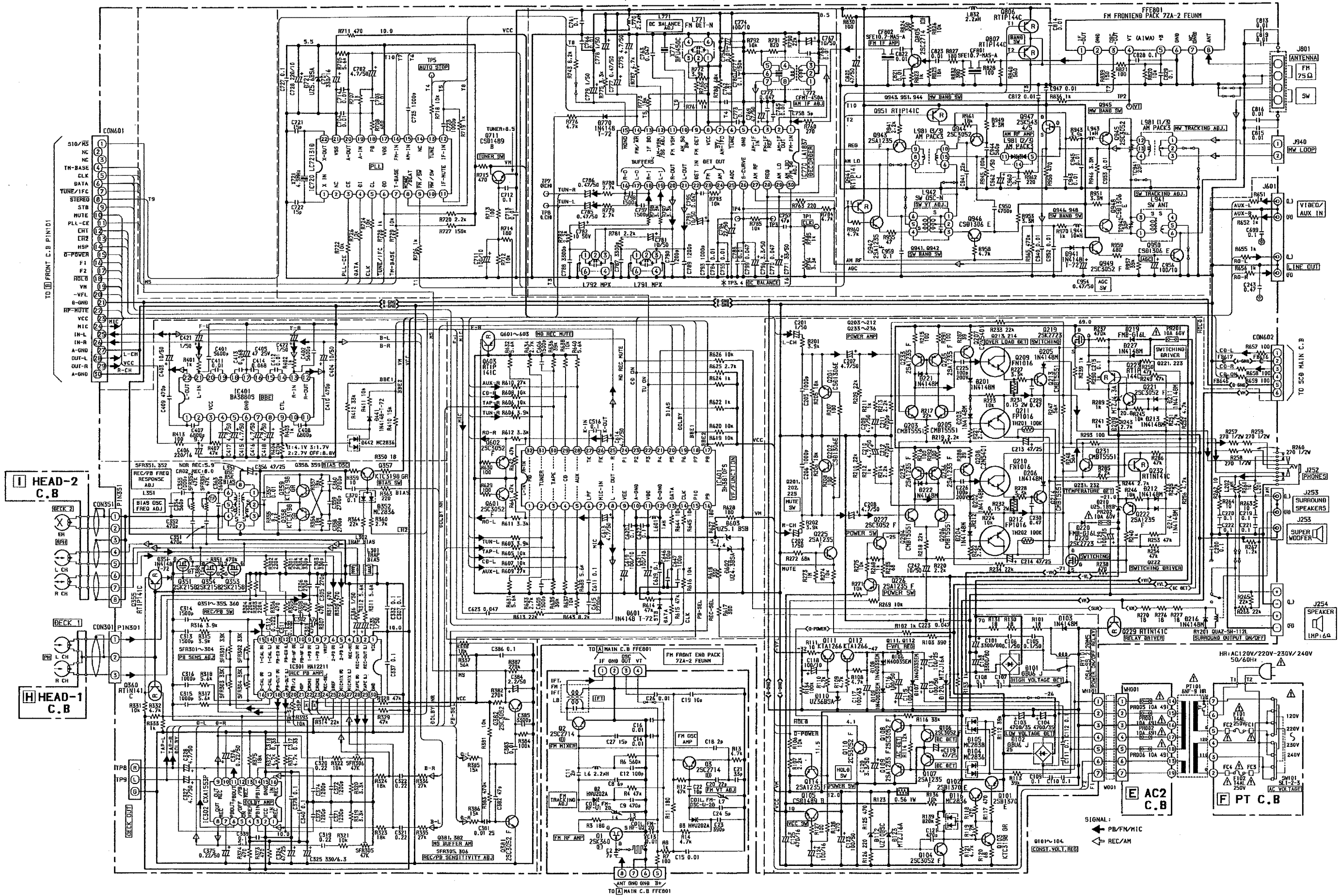
RN1410
RT1P144C
RT1N141C
RT1N144C
RT1P141C
DTA124EK
DTA143EK

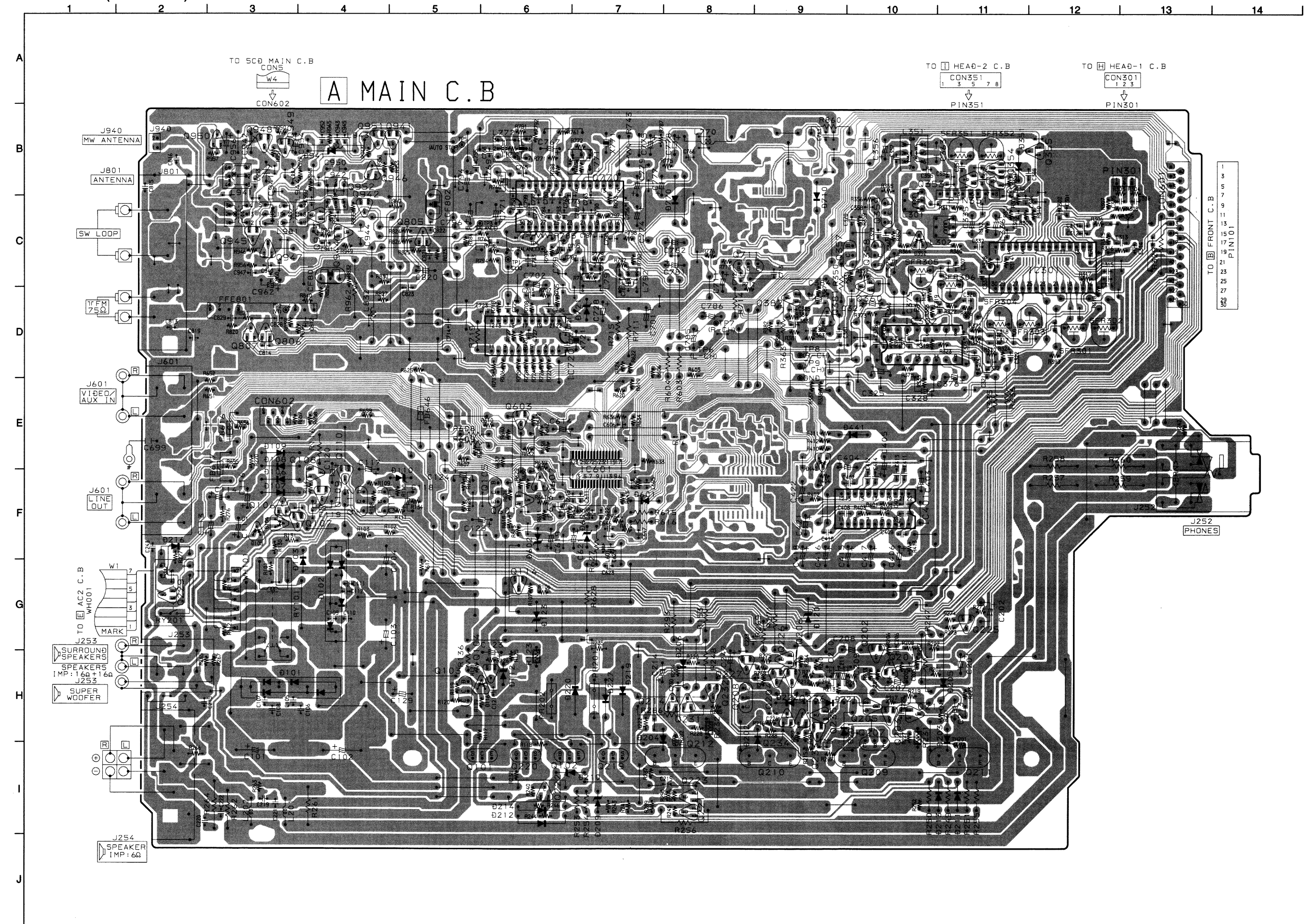
The schematic diagram illustrates the internal circuitry of a portable cassette player, organized into several main functional blocks:

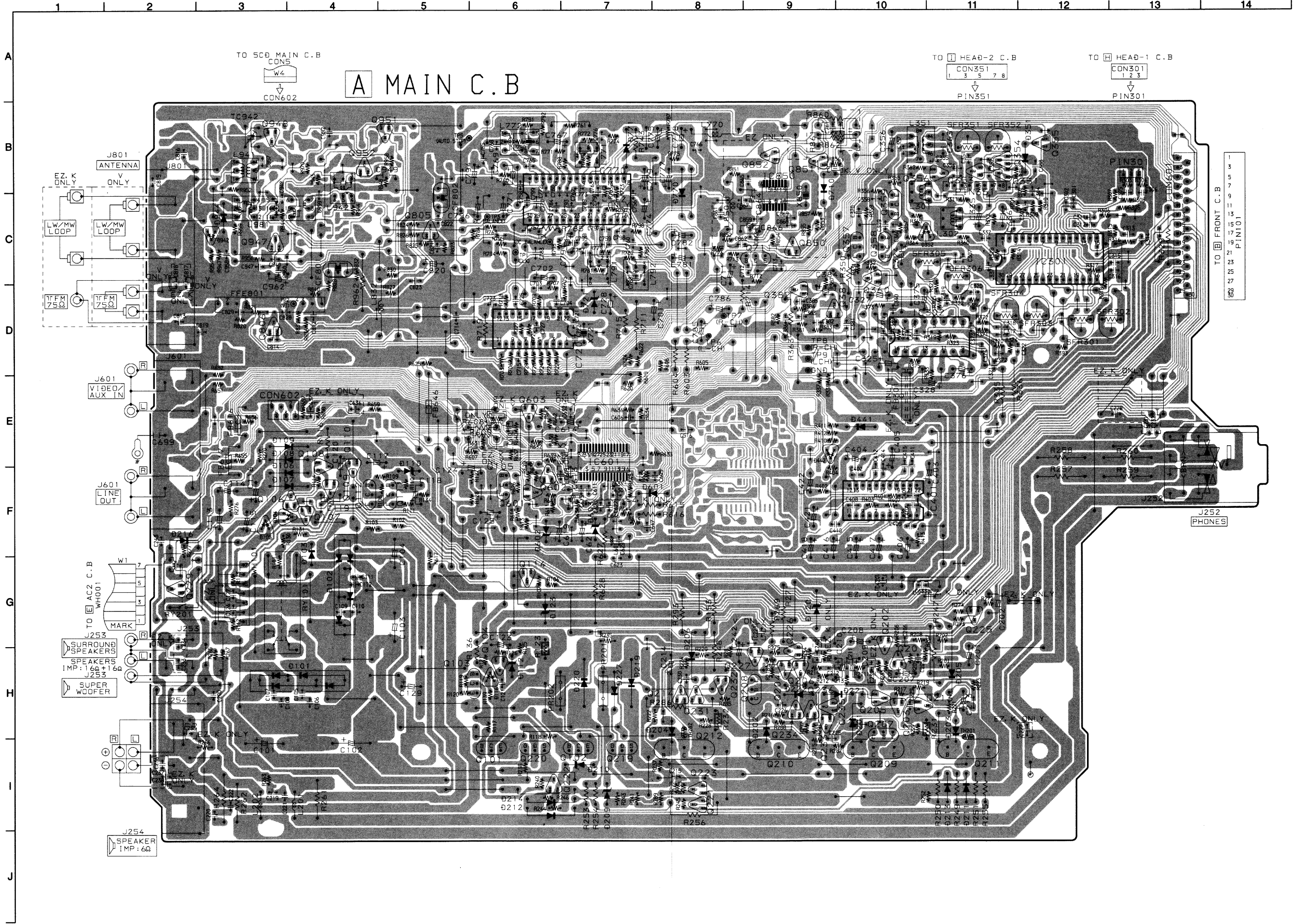
- TUNER BLOCK:** Located at the top right, it includes IC721 (LC72310) and IC770 (LA1837) for FM/AM tuning, along with various control lines like FM DEY OUT, PLL-CE, and TUNER SW.
- MAIN C.B. (Central Board):** The largest section in the center, containing the micro-computer IC201 (EZ-LC86656W-SE74), IC301 (HA2211) for recording, and IC401 (BA5880S) for playback. It also includes a shift register IC403 and various control logic ICs.
- FRONT C.B. (Front Control Board):** Located on the left, it features a spectrum analyzer IC380, a display driver IC302, and various control buttons like REW, FF, and PAUSE.
- DECK C.B. (Deck Control Board):** At the bottom, it controls the tape deck motor and includes components like IC1 (9N6051) and IC2 (9N6051).
- Power and Control Sections:** These include a power amplifier section with a power amp IC, a switching driver, and a power switch section with a power switch IC105 and a power regulator IC114.
- Other Components:** The diagram also shows various capacitors, resistors, and connectors, including a 5.6V battery, a 5.7V battery, and a 5.6V battery.

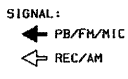
The schematic is highly detailed, showing individual components and their interconnections, providing a comprehensive view of the device's internal structure.

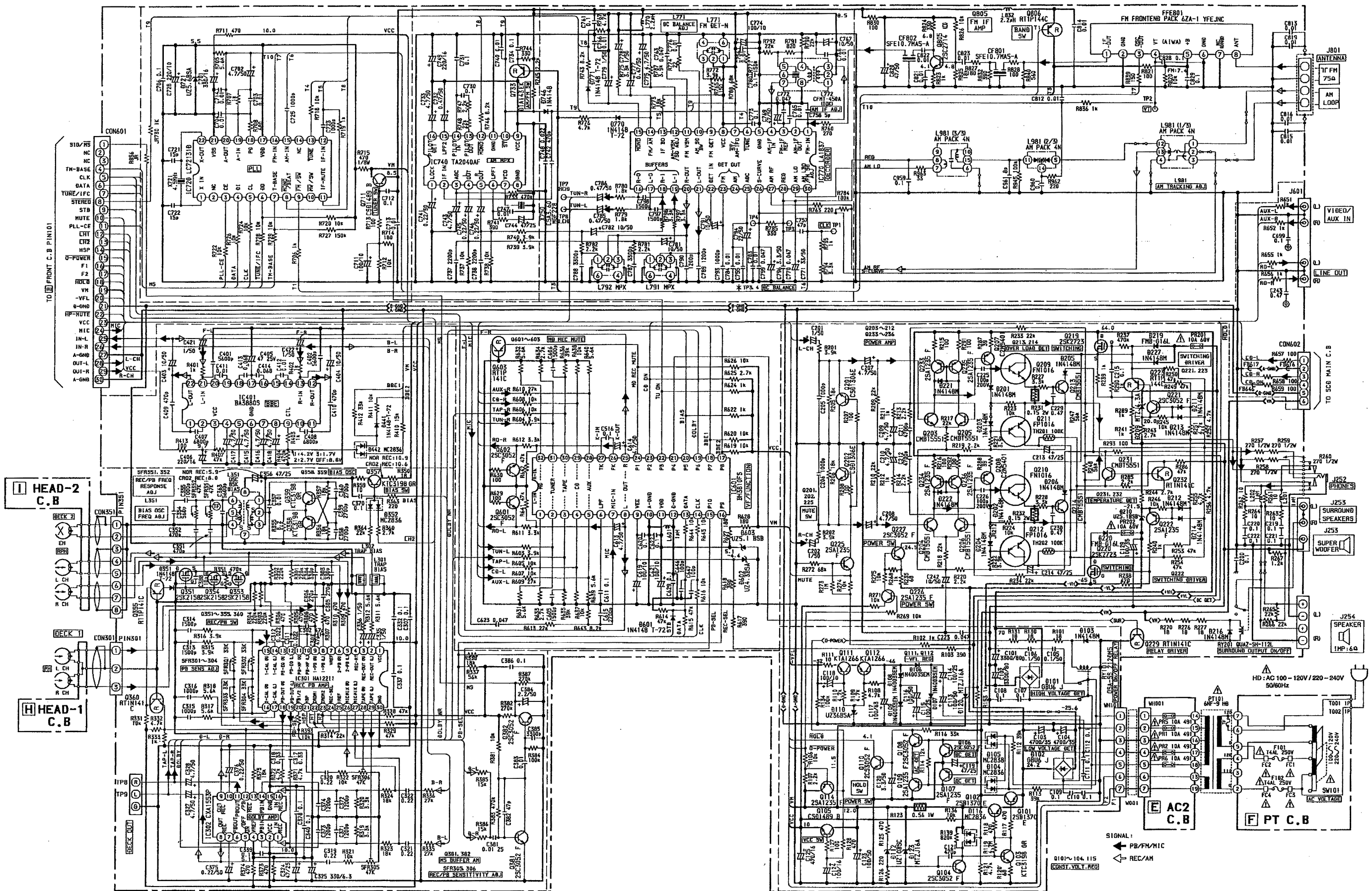


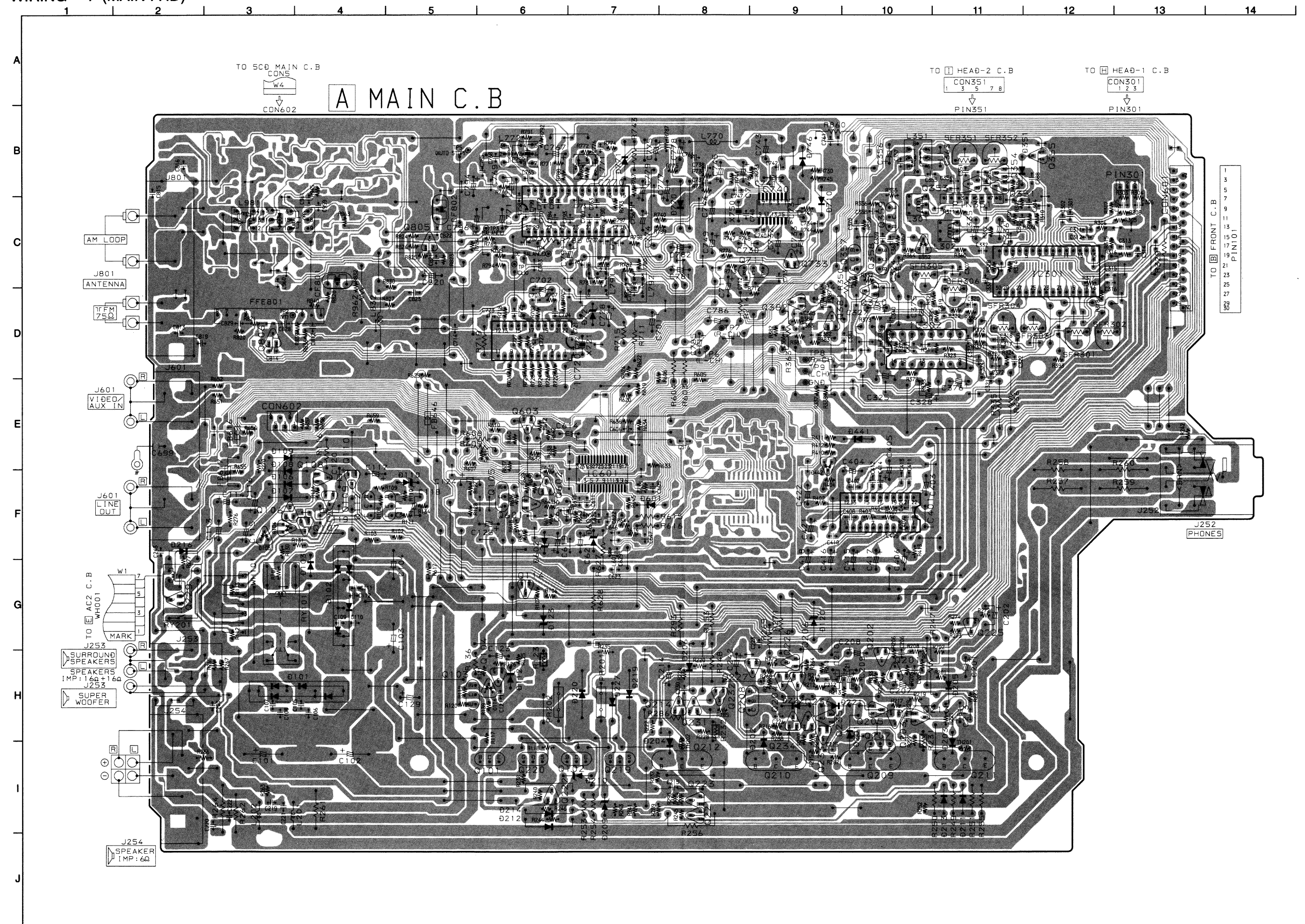


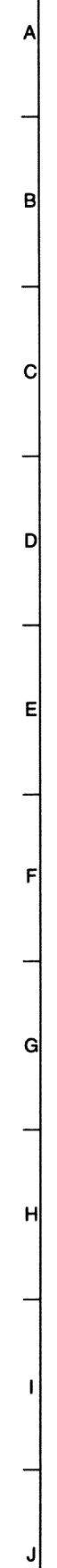


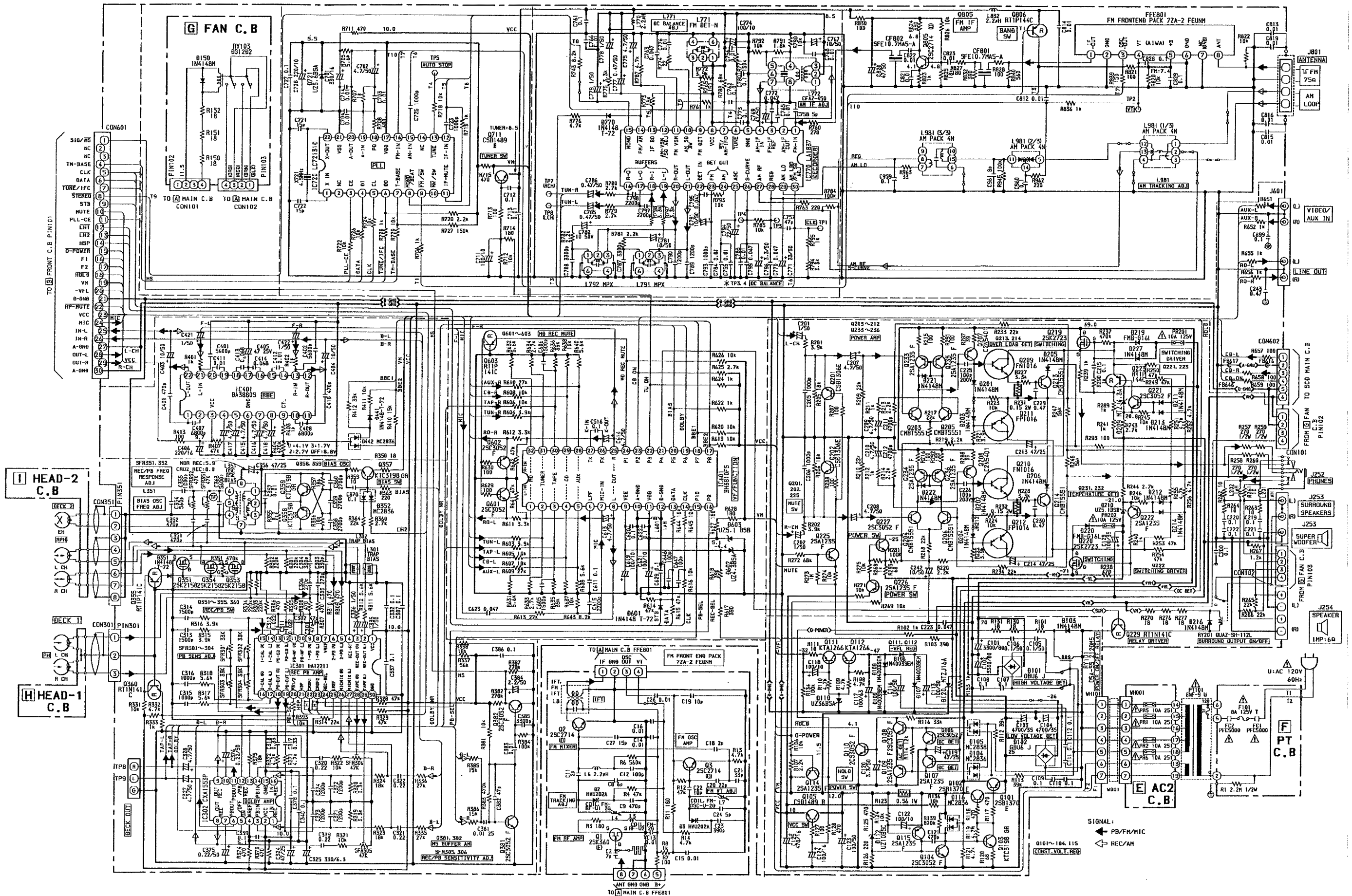


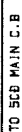


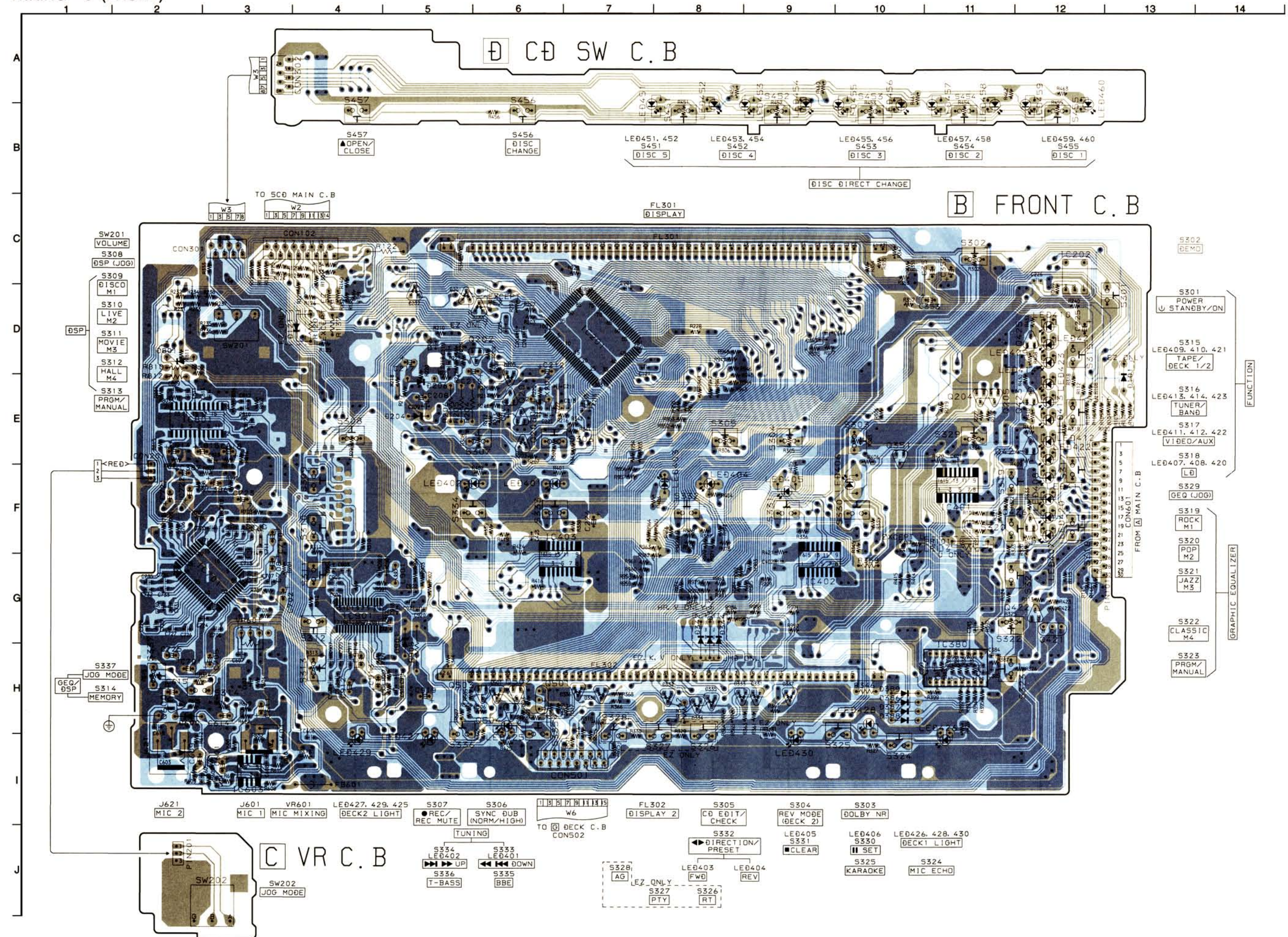


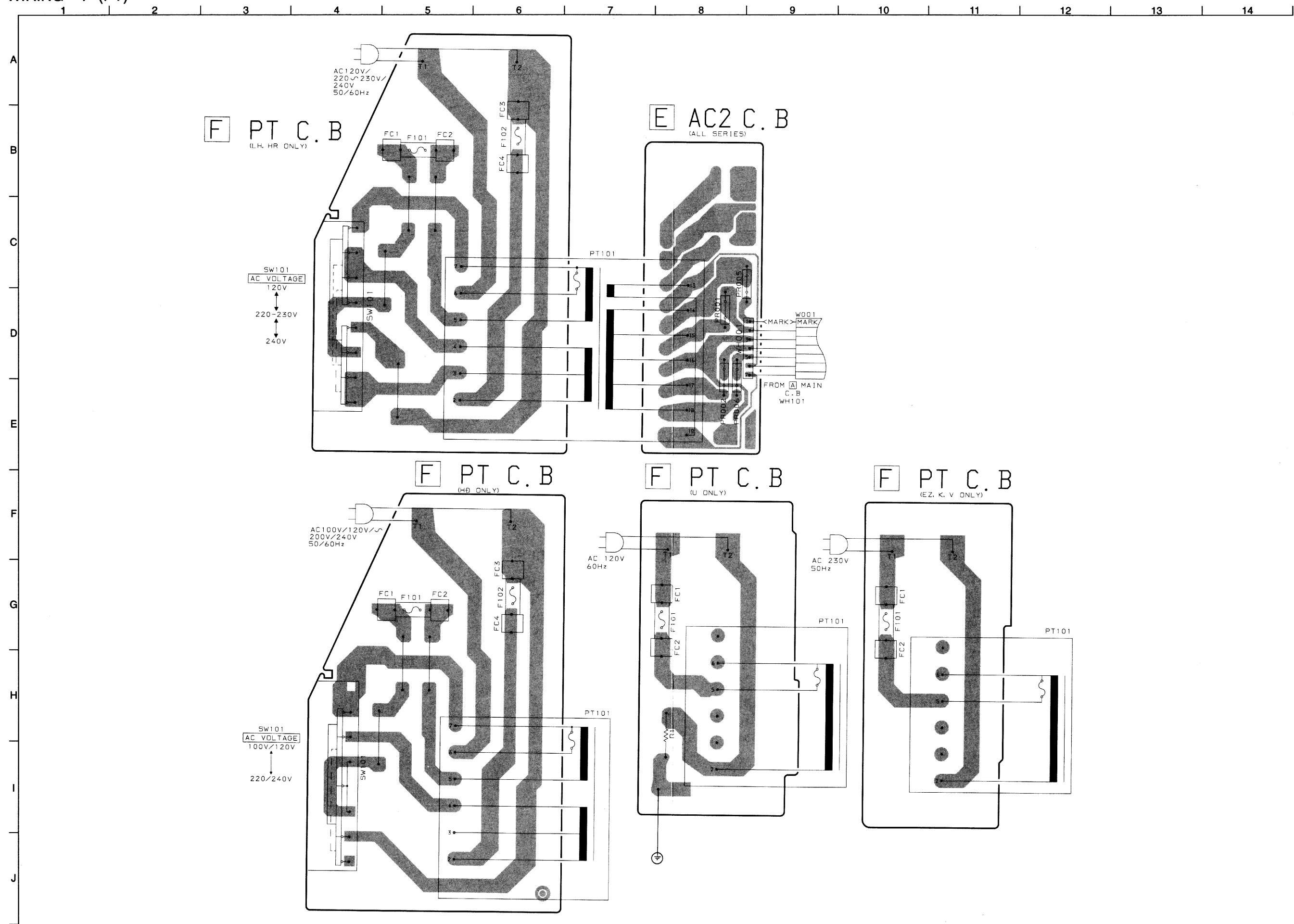


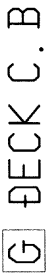








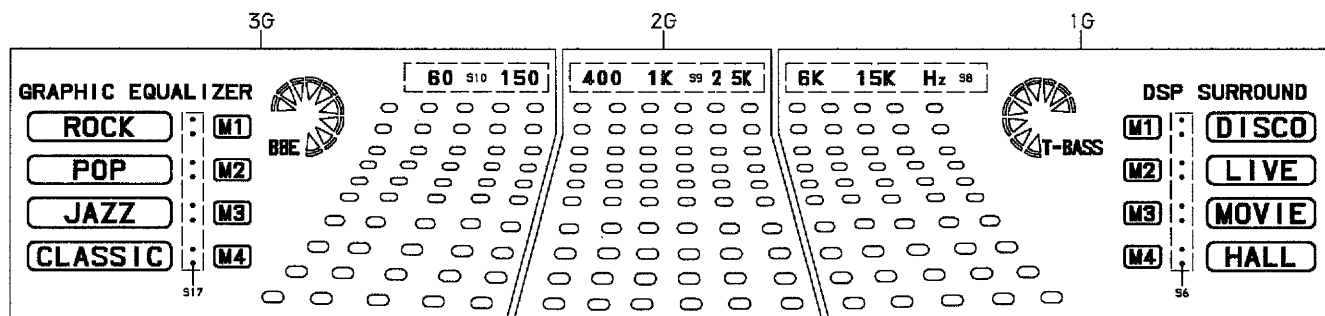




FL GRID ASSIGNMENT & ANODE CONNECTION

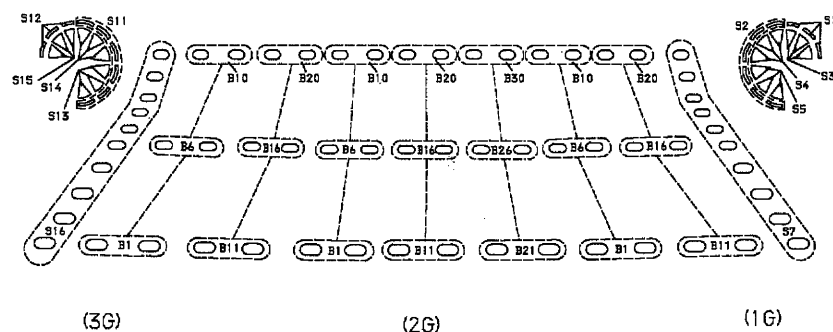
FL, BJ504GK

GRID ASSIGNMENT



BJ504GK
GRID ASSIGNMENT

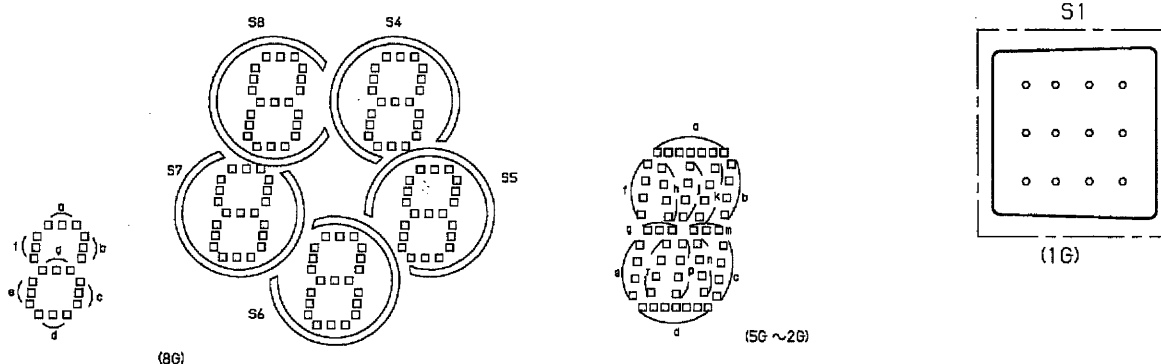
SEGMENT DESIGNATION



ANODE CONNECTION

	3G	2G	1G
P1	GRAPHIC EQUALIZER	—	DSP SURROUND
P2	ROCK POP JAZZ CLASSIC	—	DISCO LIVE MOVIE HALL
P3	(ROCK)	—	(DISCO)
P4	(POP)	—	(LIVE)
P5	(JAZZ)	—	(MOVIE)
P6	(CLASSIC)	—	(HALL)
P7	S10	S9	S8
P8	M1 M3 M2 M4	—	M1 M3 M2 M4
P9	(M1)	—	(M1)
P10	(M2)	—	(M2)
P11	(M3)	B30	(M3)
P12	(M4)	B29	(M4)
P13	S11	B28	S1
P14	S12	B27	S2
P15	S13	B26	S3
P16	S14	B25	S4
P17	S15	B24	S5
P18	BBE	B23	T-BASS
P19	S16	B22	S7
P20	S17	B21	S8

	3G	2G	1G
P21	B20	B20	B20
P22	B19	B19	B19
P23	B18	B18	B18
P24	B17	B17	B17
P25	B16	B16	B16
P26	B15	B15	B15
P27	B14	B14	B14
P28	B13	B13	B13
P29	B12	B12	B12
P30	B11	B11	B11
P31	B10	B10	B10
P32	B9	B9	B9
P33	B8	B8	B8
P34	B7	B7	B7
P35	B6	B6	B6
P36	B5	B5	B5
P37	B4	B4	B4
P38	B3	B3	B3
P39	B2	B2	B2
P40	B1	B1	B1



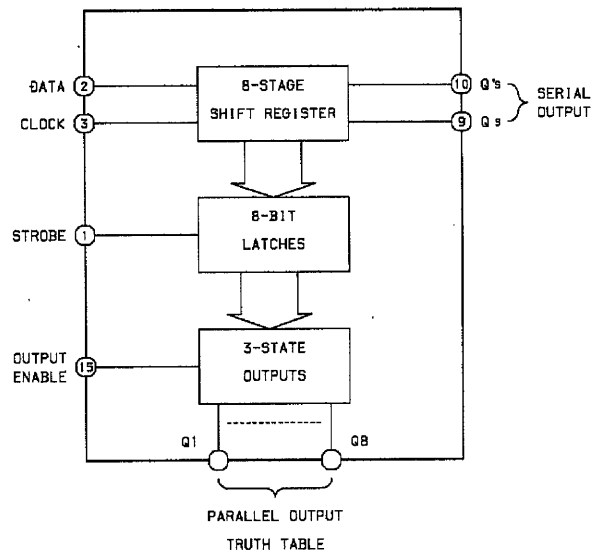
ANODE CONNECTION

	8G	7G	6G	5G	4G	3G	2G	1G
P1	5a	—	—	—	—	—	—	REC
P2	5b		—	—	—	—	—	
P3	5f	NR	—	—	—	—	—	EDIT
P4	5g		—	—	—	—	—	AI
P5	5c		—	—	—	—	—	PRGM
P6	5e	VF	—	—	—	—	—	MONO
P7	5d		—	—	—	—	—	RANDOM
P8	S8	S3	S2	—	—	—	—	SLEEP
P9	S6		—		—	—	—	(())
P10	3d		—	2a	2a	2a	2a	RDS
P11	3e		—	2h	2h	2h	2h	() (RDS)
P12	3c		—	2j	2j	2j	2j	AG
P13	3g	()	B22	2k	2k	2k	2k	() (AG)
P14	3f	B1	B29	2f	2f	2f	2f	EON
P15	3b	B8	B36	2b	2b	2b	2b	() (EON)
P16	3a	B15	B43	2m	2m	2m	2m	RT
P17	S5	#	B23	2q	2q	2q	2q	() (RT)
P18	2d	B2	B30	2c	2c	2c	2c	TRAF
P19	2e	B9	B37	2e	2e	2e	2e	() (TRAF)
P20	2c	B16	B44	2r	2r	2r	2r	1

	8G	7G	6G	5G	4G	3G	2G	1G
P21	2a	AUTO	B24	2p	2p	2p	2p	2
P22	2r	B3	B31	2n	2n	2n	2n	3
P23	2b	B10	B38	2d	2d	2d	2d	4
P24	2a	B17	B45	—	—	col (up)	KHz	5
P25	S7	SURROUND	B25	—	—	col (down)	MHz	6
P26	4d	B4	B32	—	—	⊗P	dB	7
P27	4e	B11	B39	1a	1a	1a	1a	8
P28	4o	B18	B46	1h	1h	1h	1h	9
P29	4g	PRO LOGIC	B26	1j	1j	1j	1j	10
P30	4f	B5	B33	1k	1k	1k	1k	11
P31	4b	B12	B40	1f	1f	1f	1f	12
P32	4a	B19	B47	1b	1b	1b	1b	13
P33	S4	((b))	B27	1m	1m	1m	1m	14
P34	1d	B6	B34	1g	1g	1g	1g	15
P35	1e	B13	B41	1c	1c	1c	1c	16
P36	1c	B20	B48	1e	1e	1e	1e	17
P37	1g	b	B28	1r	1r	1r	1r	18
P38	1f	B7	B35	1p	1p	1p	1p	19
P39	1b	B14	B42	1n	1n	1n	1n	20
P40	1a	B21	B49	1d	1d	1d	1d	S1

IC BLOCK DIAGRAM

IC, BU4094BCF



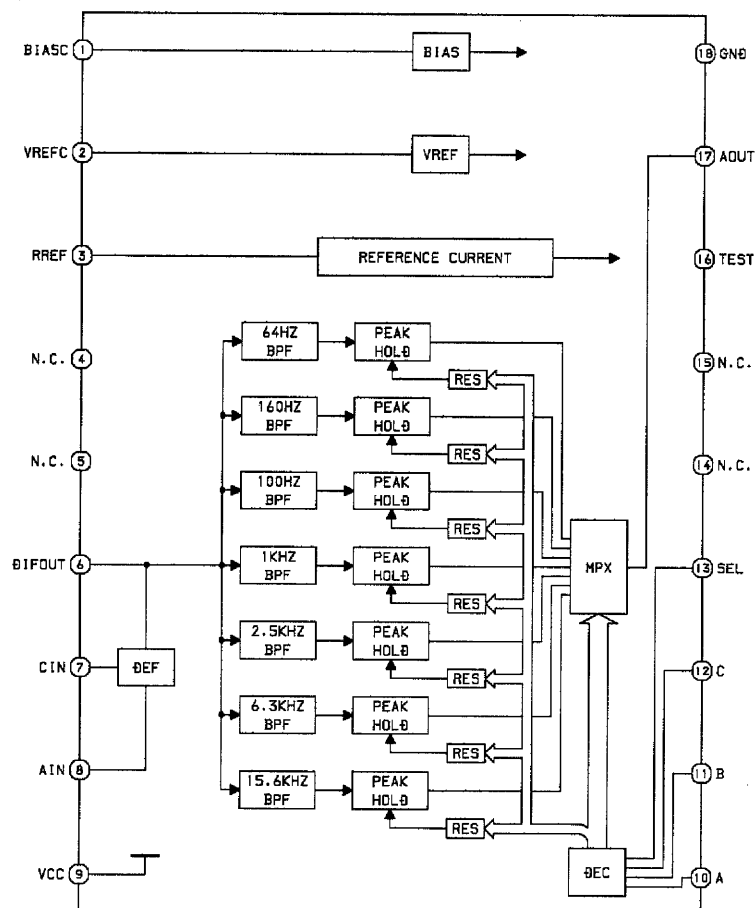
PARALLEL OUTPUT TRUTH TABLE

CLOCK	OUTPUT ENABLE	STROBE	DATA	PARALLEL OUTPUTS		SERIAL OUTPUTS	
				Q ₁	Q _n	Q ₆	Q ₇
	L	X	X	Z	Z	Q ₇	NO Chg.
	L	X	X	Z	Z	No Chg.	Q ₆
	H	L	X	No Chg.	No Chg.	Q ₇	No Chg.
	H	H	L	L	Q _{n-1}	Q ₇	No Chg.
	H	H	H	H	Q _{n-1}	Q ₇	No Chg.
	H	X	X	No Chg.	No Chg.	No Chg.	Q ₆

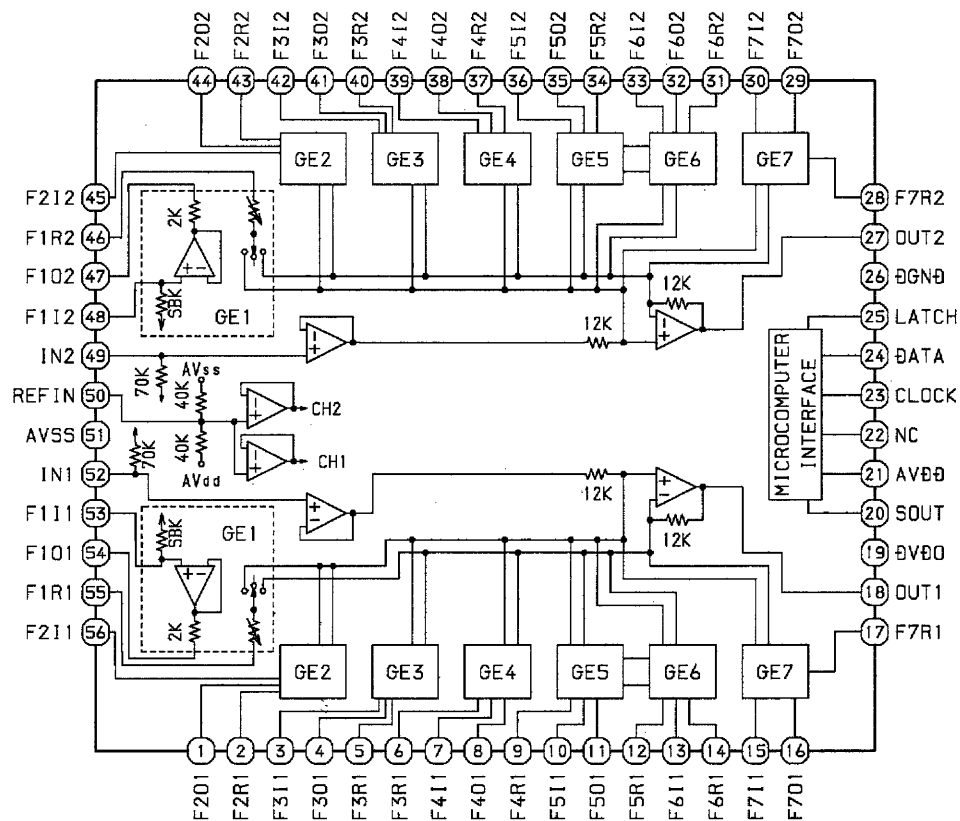
Z=High impedance

X=Don't Care

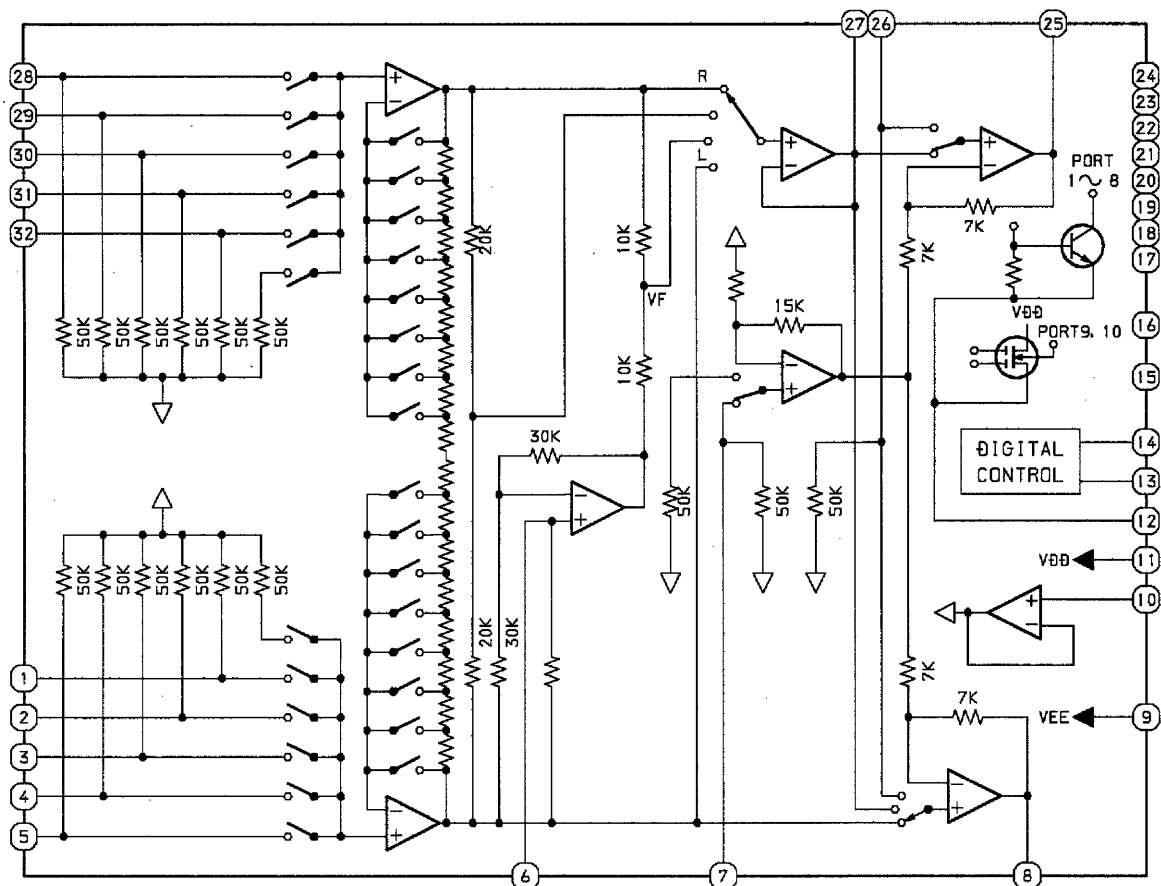
IC, BA3834S



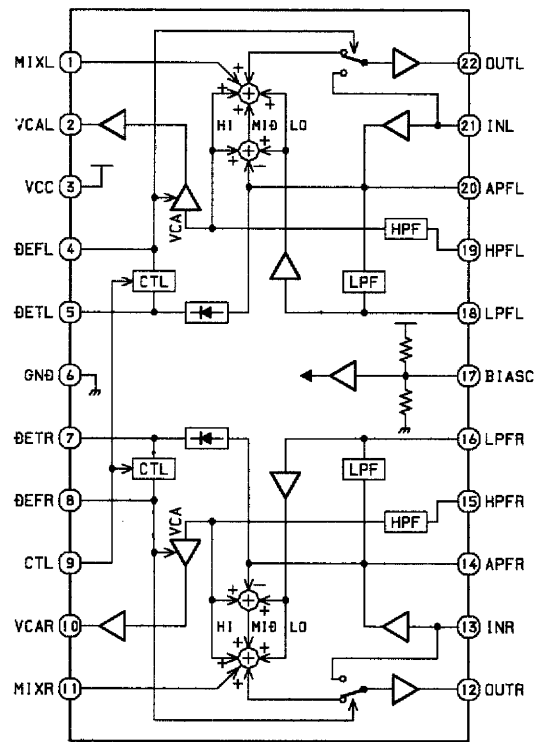
IC, M62431FP



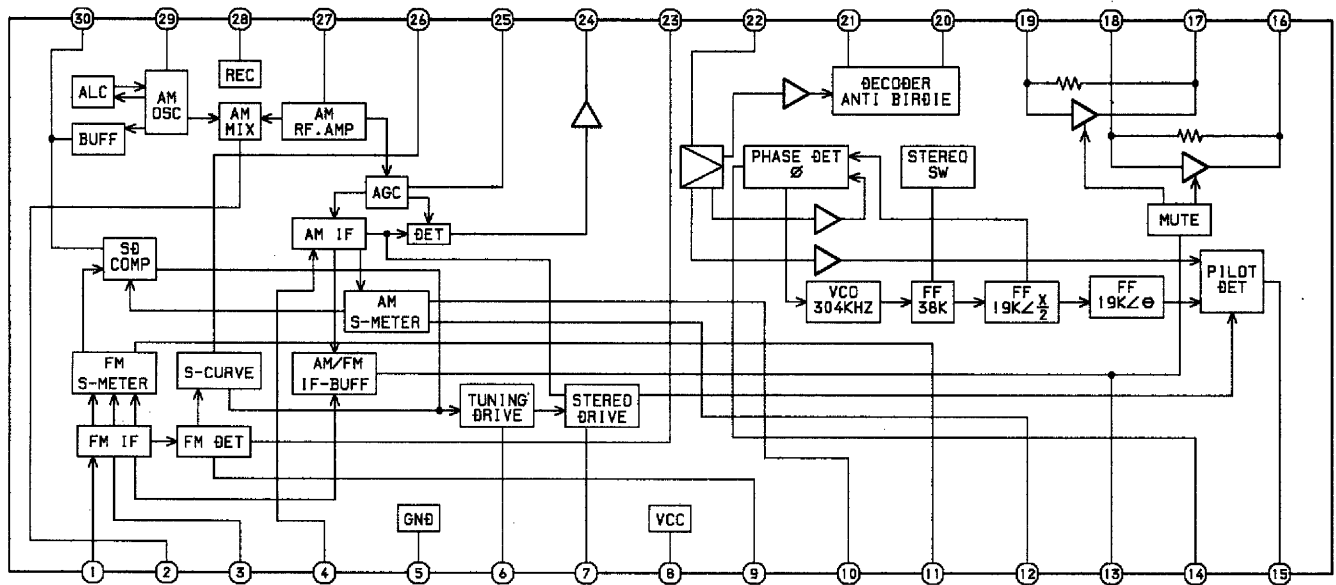
IC, BH3810FS



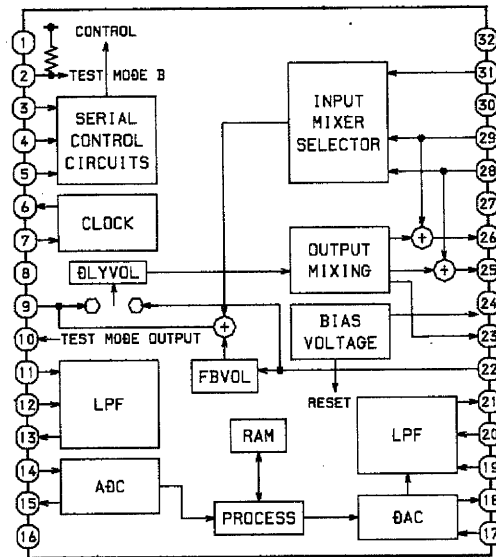
IC, BA3880S



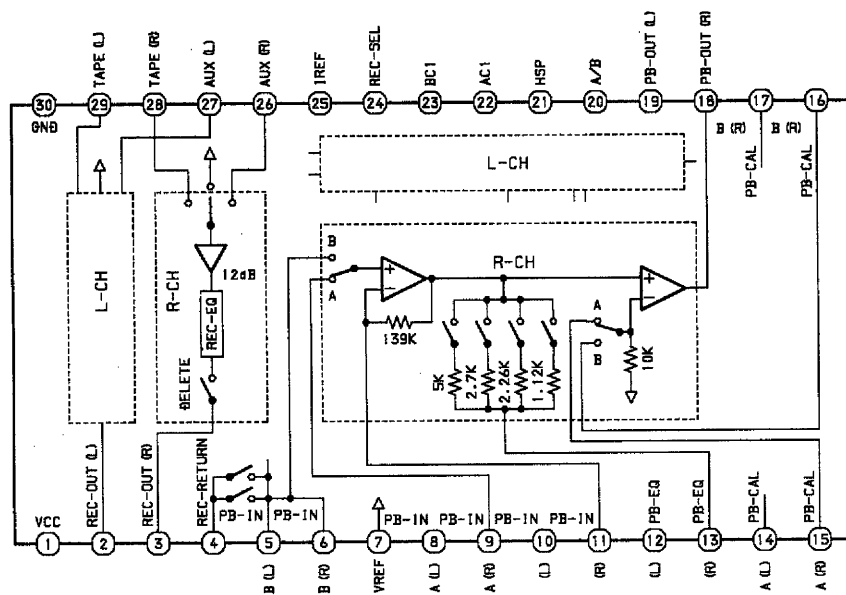
IC, LA1837



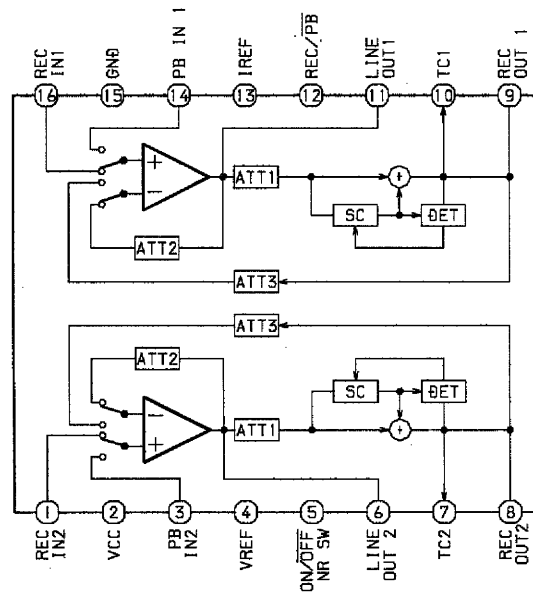
IC, BU9262AFS



IC, HA12211NT

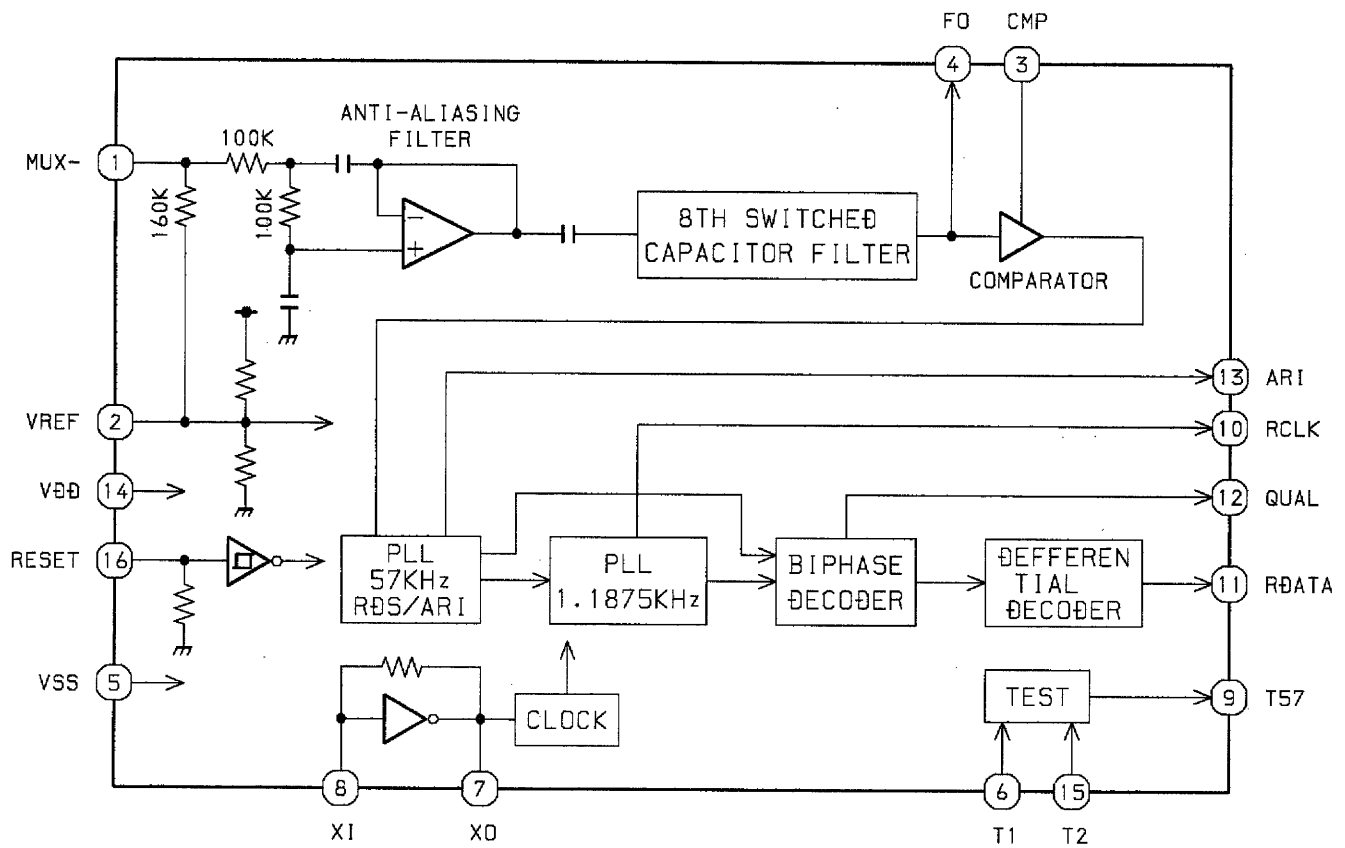


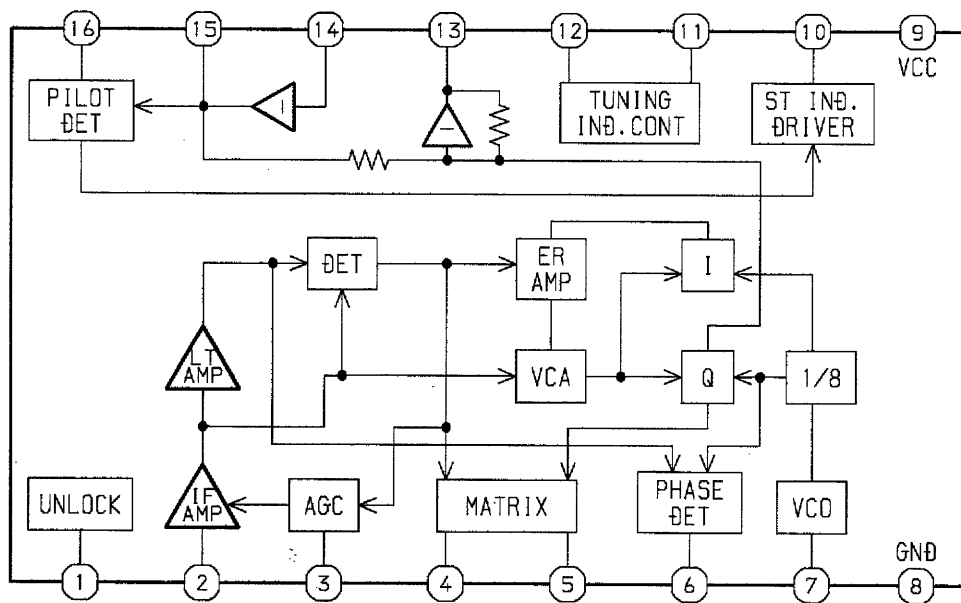
IC, CXA1553P



ATT:Attenuator
SC:Side Chain
DET:Detector

IC, BU1920FS





IC DESCRIPTION

IC, LC866556W-5E74 (EXCEPT EZ)

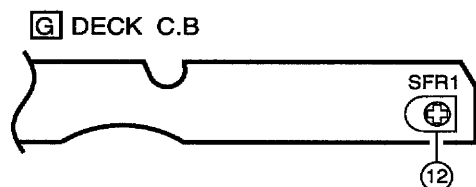
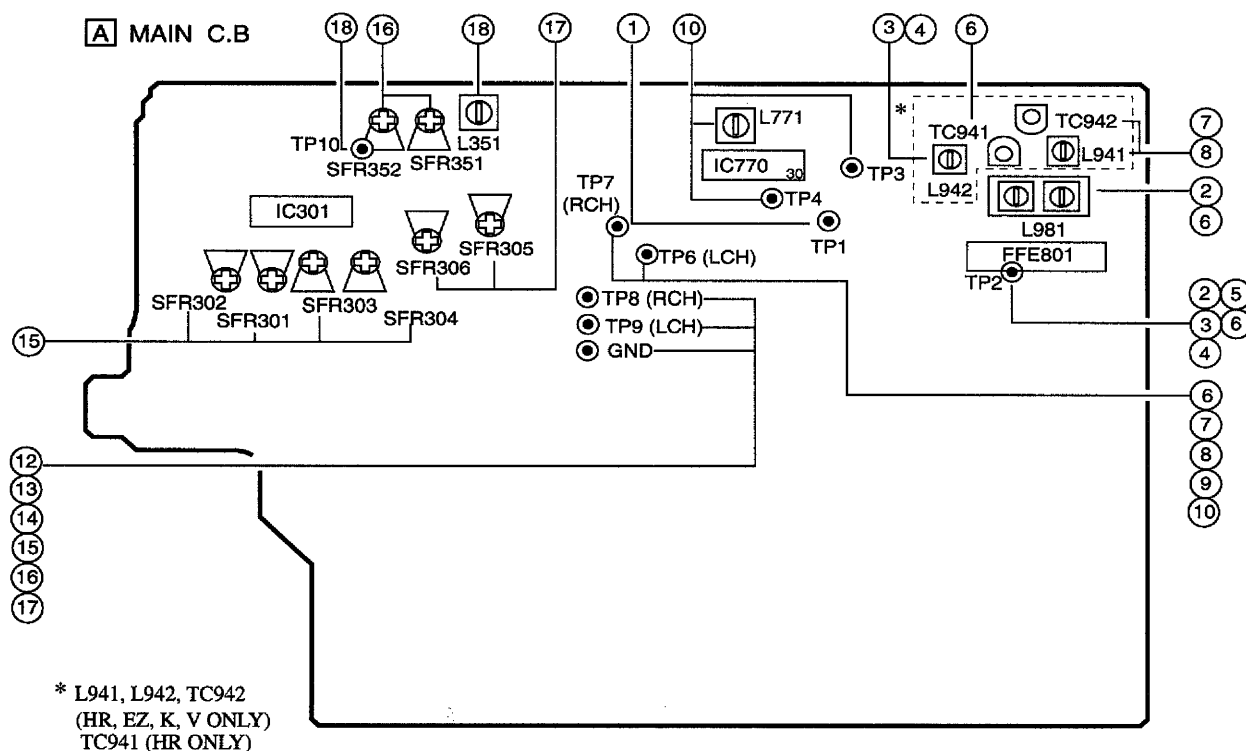
IC, LC866560W-5E98 (EZ)

Pin No.	Pin Name	I/O	Description
1	RT-A	I	Rotary encoder input (electric volume).
2	RT-B	I	Rotary encoder input (electric volume).
3	RT-C	I	Rotary encoder input (multi jog switch).
4	XLT (CD)	O	XLT (CD) output.
5	CLK (CD)	O	CLOCK (CD) output.
6	O-GE LATCH	O	G.E data latch strobe output.
7	NC	–	Not used.
8	LED CE	O	LED shift resistor chip enable.
9	O-POWER	O	Power on signal output.
10	O-MUTE	O	System mute output.
11	RT-D	I	Rotary encoder input (multi jog switch).
12	RESET	I	Reset input.
13	I-HP-MUTE	I	Headphone switch data input.
14	I-MIC	I	Microphone input for auto vocal fader display .
15	VSS1	–	GND.
16	CF1	I	5.76 MHz oscillator circuit.
17	CF2	O	5.76 MHz oscillator circuit.
18	VDD1	–	Power supply input.
19	HOLD	I	Power failure detected input "L" to stop lock & maintain memory.
20	KEY 1 ~ 3	I	Key input 1 ~ 3 (A/D).
23	I-CDSW	I	CD mechanical switch A/D converter input.
24	I-DI-SENS	I	CD turntable photo sensor A/D converter input.
25	I-TU-SIG/MS	I	Tuner signal input & deck music sensor signal input.
26	I-SPEANA	I	A/D input for spectrum analyzer display.
27	I-RDS-CLK/I-SENS	I	Tuner RDS clock input /CD sens input.
28	I-TM BASE	I	Reference clock input for timer watch.
29	I-RMC	I	System remote control signal input.
30 ~ 37	G1 ~ G8	O	FL grid output G1 ~ G8.
38 ~ 41	S1 ~ S4	O	FL segment output S1 ~ S4.
42 ~ 44	G9 ~ G11	O	FL grid output G9 ~ G11.
45	S5	O	FL segment output S5.
46	VDD3	–	Power supply input.
47 ~ 50	S6 ~ S9	O	FL segment output S6 ~ S9.
51	-VFL	–	Power supply input for FL display.
52 ~ 60	S10 ~ S18	O	FL segment output S10 ~ S18.
61	S19/O-SPEANA C	I/O	FL segment output S19 / SPEANA band changing C output.
62	S20/O-SPEANA B	I/O	FL segment output S20 / SPAENA band changing B output.
63	S21/O-SPEANA A	I/O	FL segment output S21 / SPEANA band changing A output.
64	S22/CST-1	I/O	FL segment output S22 / DECK1 cassette detect switch data input.
65	S23/AUTO1	I/O	FL segment output S23 / DECK1 auto stop signal input.
66	S24/CAM1	I/O	FL segment output S24 / DECK1 cam switch data input.
67	S25/CAM2	I/O	FL segment output S25 / DECK2 cam switch data input.

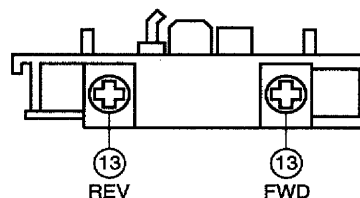
Pin No.	Pin Name	I/O	Description
68	S26/AUTO2	I/O	FL segment output S26 / DECK2 auto stop signal input.
69	S27/CST2	I/O	FL segment output S27 / DECK2 cassette detect switch data input.
70	S28/REA	I/O	FL segment output S28 / DECK2 side-A record ok switch data input.
71	S29/REB	I/O	FL segment output S29 / DECK2 side-B record ok switch data input.
72	VDD4	–	Power supply input.
73	S30/PRO LOGIC	I/O	FL segment output S30 / Pro logic diode data input to diode.
74	S31/D-TG	I/O	FL segment output S31 / Tracking gain +2dB up switch.
75	S32/SEL1	I/O	FL segment output S32 / Tuner model select mode data1 input to diode.
76	S33/SEL2	I/O	FL segment output S33 / Tuner model select mode data2 input to diode.
77	S34/SEL3	I/O	FL segment output S34 / Tuner model select mode data3 input to diode.
78	S35/C-ATG	I/O	FL segment output S35 / Switch of cancel auto tracking gain.
79	S36/C-ATB	I/O	FL segment output S36 / Switch of cancel auto tracking balance.
80	S37/C-FB	I/O	FL segment output S37 / Switch of adjust focus bias center.
81	S38/+3dB	I/O	FL segment output S38 / Switch of increase +3dB for E-VR.
82	S39	O	FL segment output S39
83	S40	O	FL segment output S40.
84	K-SCAN	O	Switch scan timing output.
85	O-OPEN	O	CD tray open data output.
86	O-CLOSE	O	CD tray close data output.
87	O-DI/R	O	CD turntable reverse rotation output.
88	O-DI/F	O	CD turntable forward rotation output.
89	VSS2	–	GND.
90	VDD2	–	Power supply input.
91	O-MOTOR	O	Deck motor output.
92	O-SOL2	O	DECK2 solenoid output (DECK2).
93	O-SOL1	O	DECK1 solenoid output (DECK1).
94	O-M/STB	O	Main shift register data latch strobe output.
95	O-M/DATA	O	Main shift register, PLL / DSP / E-VR / GE / FUNC / PRO LOGIC related data output.
96	O-M/CLK	O	Main shift register, PLL / DSP / E-VR / GE / FUNC / PRO LOGIC related clock.
97	O-PLL-CE	O	PLL IC chip enable.
98	I-TUNER IFC/ I-SUBQ DATA	I	Tuner $\overline{SD}$ detected input. IF count serial data input / CD.SUBQ input.
99	I-STEREO/ O-SUBQ CLK	I/O	Tuner stereo detected input / SUBQ clock (CD) output.
100	I-RDS-DATA/ DATA (CD)	I/O	RDS data input (TUNER) / Data CD output.

Pin No.	Pin Name	I/O	Description																								
1	XIN	I/O	A crystal oscillator (7.2MHz) is connected between these pins.																								
22	XOUT																										
2	NC	–	Not used.																								
3	CE	I	To enable the IC. Active "H".																								
4	DI	I	Digital data input from CPU (LC866556W-5E74/LC866560W-5E98) when relevant key is operated. Active "H".																								
5	CLK	I	To clock in the data DI.																								
6	DO	O	Digital data output to CPU (LC866556W-5E74/LC866560W-5E98).																								
7	TM-BASE	O	Outputs a reference clock signal (8Hz) for the clock.																								
8	MONO / BEAT	O	Outputs "H" when MONO / BEAT is switched.																								
9	FM / AM	O	Output "L" or "H" as follows: <table><tr><td colspan="2">2 BAND</td><td colspan="3">3 BAND</td><td colspan="3">3 BAND</td></tr><tr><td>AM</td><td>FM</td><td>LW</td><td>MW</td><td>FM</td><td>MW</td><td>SW</td><td>FM</td></tr><tr><td>H</td><td>L</td><td>H</td><td>H</td><td>L</td><td>H</td><td>L</td><td>L</td></tr></table>	2 BAND		3 BAND			3 BAND			AM	FM	LW	MW	FM	MW	SW	FM	H	L	H	H	L	H	L	L
2 BAND		3 BAND			3 BAND																						
AM	FM	LW	MW	FM	MW	SW	FM																				
H	L	H	H	L	H	L	L																				
10	MW	O	Outputs "L" or "H" as follows: <table><tr><td colspan="2">2 BAND</td><td colspan="3">3 BAND</td><td colspan="3">3 BAND</td></tr><tr><td>AM</td><td>FM</td><td>LW</td><td>MW</td><td>FM</td><td>MW</td><td>SW</td><td>FM</td></tr><tr><td>L</td><td>L</td><td>H</td><td>L</td><td>L</td><td>L</td><td>H</td><td>L</td></tr></table>	2 BAND		3 BAND			3 BAND			AM	FM	LW	MW	FM	MW	SW	FM	L	L	H	L	L	L	H	L
2 BAND		3 BAND			3 BAND																						
AM	FM	LW	MW	FM	MW	SW	FM																				
L	L	H	L	L	L	H	L																				
11	IF-MUTE	O	To control internal counter.																								
12	IFIN	I	General purpose counter input.																								
13	TUNE	I	Receives "L" when station is tuned.																								
14	NC	–	Not used.																								
15	A MIN	I	Receives the AM local oscillator frequency signal.																								
16	F MIN	I	Receives the FM local oscillator frequency signal.																								
17	VDD	–	Supply power to IC (+5V).																								
18	PD	O	PLL charge pump output.																								
19	AIN	I	The MOS transistor for PLL active low pass filter.																								
20	AOUT	O																									
21	VSS	–	Ground.																								

ADJUSTMENT <TUNER / DECK>



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



< TUNER SECTION >

1. Clock Frequency Check

Settings : • Test point : TP1 (CLK IC770 pin30)

Method : Set to MW 1710kHz (HR, LH, U), 1602kHz (EZ, K, V, HD) and check that the test point is $2160\text{kHz} \pm 45\text{Hz}$ (HR, LH, U), $2052\text{kHz} \pm 45\text{Hz}$ (EZ, K, V, HD).

2a. MW VT Adjustment (HR)

Settings : • Test point : TP2 (VT)

• Adjustment location : L981

Method : Set to MW 1710kHz and adjust L981 so that the test point is $8.5\text{V} \pm 0.05\text{V}$. Then set to MW 530kHz and check that the test point is more than 0.3V.

2b. MW VT Adjustment (EXCEPT HR)

Settings : • Test point : TP2 (VT)

• Adjustment location : L981

Method : Set to MW 531kHz (EZ, K, V, HD), 530kHz (LH, U) and adjust L981 so that the test point is $1.5\text{V} \pm 0.05\text{V}$. Then set to MW 1602kHz (EZ, K, V, HD), 1710kHz (LH, U) and check that the test point is less than 8.5V (EZ, K, V, HD), $6.0\text{V} \pm 1.0\text{V}$ (LH, U).

3. LW VT Adjustment (EZ, K, V)

Settings : • Test point : TP2 (VT)

• Adjustment location : L942

Method : Set to LW 144kHz and adjust L942 so that the test point is $1.3\text{V} \pm 0.05\text{V}$. Then set to LW 290 kHz and check test point is less than 6.0V.

4. SW VT Adjustment (HR)

Settings : • Test point : TP2 (VT)

• Adjustment location : L942

Method : Set to SW 17.9MHz and adjust L942 so that the test point is $7.0\text{V} \pm 0.05\text{V}$.

5. FM VT Check

Settings : • Test point : TP2 (VT)

Method : Set to FM 76.0 MHz (HD), 87.5MHz (EXCEPT HD) and check that the test point is more than 0.4V (HD), 1.5V (EXCEPT HD). Then set to FM 108MHz and check the test point is less than 9.0V (HD), 8.5V (EXCEPT HD).

< DECK SECTION >

6a. MW Tracking Adjustment (HR)

Settings : • Test point : TP6, TP7

• Adjustment location :

L981 600kHz

TC941 1400kHz

Method : Set up TC941 to center before adjustment, the level at 600kHz is adjusted to MAX by L981. Then the level at 1400kHz is adjusted to MAX by TC941.

6b. MW Tracking Adjustment (EXCEPT HR)

Settings : • Test point : TP6, TP7

• Adjustment location : L981

Method : Set to MW 1000kHz (LH, U), 999kHz (EZ, K, V, HD) and adjust L981 so that the test point becomes MAX.

7. LW Tracking Adjustment (EZ, K, V)

Settings : • Test point : TP6, TP7

• Adjustment location :

L941 144kHz

TC942 290kHz

Method : Set up TC942 to center before adjustment. The level at 144kHz is adjusted to MAX by L941. Then the level at 290kHz is adjusted to MAX by TC942.

8. SW Tracking Adjustment (HR)

Settings : • Test point : TP6, TP7

• Adjustment location :

L941 5.9MHz

TC942 17.9MHz

Method : Set up TC942 to center before adjustment. The level at 5.9MHz is adjusted to MAX by L941. Then the level at 17.9MHz is adjusted to MAX by TC942.

9. FM Tracking Check

Settings : • Test point : TP6(Lch), TP7(Rch)

Method : Set to FM 83.0MHz (HD), 98.0MHz (EXCEPT HD) and check that the test point is $6\text{dB} \pm 6\text{dB}$ (EZ, K), $2\text{dB} \pm 6\text{dB}$ (EXCEPT EZ, K).

10. DC Balance / Mono Distortion Adjustment

Settings : • Test point : TP3, TP4 (DC balance)

: TP6, TP7 (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 $0\text{V} \pm 0.04\text{V}$. Next, check that the distortion is less than 1.3%.

11. Auto Stop Level Check

MW

Settings : • Input level : Variable

Method : Check the auto stop at MW 1000kHz (LH, U), 999kHz (EXCEPT LH, U) and the input level is $50\text{dB} + 10/-15\text{dB}$.

FM

Settings : • Input level : Variable

Method : Check the auto stop at FM 83.0MHz (HD), 98.0MHz (EXCEPT HD) and the input level is $25\text{dB} \pm 10\text{dB}$.

SW (HR)

Settings : • Input level : Variable

Method : Check the auto stop at SW 12.0MHz and the input level is less than 60dB.

12. Tape Speed Adjustment

Settings : • Test tape : TTA-100

• Test point : TP8, TP9

• Adjustment location : SFR1

Method : Play back the test tape and adjust SFR1 so that the frequency counter reads $3000\text{Hz} \pm 5\text{Hz}$.

13. Head Azimuth Adjustment (DECK1, DECK2)

Settings : • Test tape : TTA-300

• Test point : TP8, TP9

• Adjustment location : Head azimuth adjustment screw

Method : Play back the 10kHz signal of the test tape and adjust screw so that the output becomes maximum.

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

Settings : • Test tape : TTA-300

• Test point : TP8, TP9

Method : Play back the 315Hz and 10kHz signals of the test tape and check that the output ratio of the 10kHz signal with respect to that of the 315Hz signal is $0 \pm 2\text{dB}$. Lch and Rch difference level of 10kHz is less than 2.0dB.

15. PB Sensitivity Adjustment (DECK 1, DECK 2)

Settings : • Test tape : TTA-200

• Test point : TP8, TP9

• 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.

16. REC/PB Frequency Response Adjustment

Settings : • Test tape : TTA-602

• Test point : TP8, TP9

• 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 TP8, TP9 becomes 170mV. Record and play back the 1kHz and 10kHz signals and adjust SFRs so that the output of the 10kHz signals becomes $0\text{dB} \pm 0.5\text{dB}$ with respect to that of the 1kHz signal.

17. REC/PB Sensitivity Adjustment

Settings : • Test tape : TTA-602

• Test point : TP8, TP9

• 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 the TP8, TP9 becomes 17mV. Record and play back the 1kHz signals and check that the output is $17\text{mV} \pm 0.5\text{dB}$.

18. Bias OSC Frequency Adjustment

Settings : • Test tape : TTA-615

• Test point : TP10

• Adjustment location : L351

Method : Set to the REC mode. Adjust L351 so that the frequency at the test point is $85\text{kHz} \pm 1\text{kHz}$.

PRACTICAL SERVICE FIGURE

<TUNER SECTION>

<FM SECTION>

IHF Sensitivity : 6dB $\pm$ 6dB
(THD 3%) [at 65.0 / 70.0 / 74.0MHz (V)]
[at 87.5 / 98.0 / 108.0MHz (EZ,K)]
[at 76.0 / 83.0 / 108.0MHz (HD)]
4dB $\pm$ 6dB
[at 87.5 / 98.0 / 108.0MHz (U,LH,HR)]

S/N 50dB Quieting sensitivity :
33dB $\pm$ 6dB
[at 65.0 / 70.0 / 74.0MHz (V)]
34dB $\pm$ 6dB
[at 87.5 / 98.0 / 108.0MHz (EZ,K)]
31dB $\pm$ 5dB
[at 76.0 / 83.0 / 108.0MHz (HD)]
30dB $\pm$ 6dB
[at 87.5 / 98.0 / 108.0MHz (U,LH,HR)]

Signal to noise ratio : Mono :
More than 60dB (EZ,K)
More than 65dB (U,LH,HR,V,HD)
[at 83.0MHz (HD)]
[at 98.0MHz (EXCEPT HD)]
Stereo :
More than 59dB (EZ,K)
More than 64dB (U,LH,HR,V,HD)
[at 83.0MHz (HD)]
[at 98.0MHz (EXCEPT HD)]

Distortion : Mono :
Less than 1.3%
[at 83.0MHz (HD)]
[at 98.0MHz (EXCEPT HD)]
Stereo :
Less than 2.0%
[at 83.0MHz (HD)]
[at 98.0MHz (EXCEPT HD)]

Auto stop level : 30dB $\pm$ 10dB (EZ)
25dB $\pm$ 10dB (EXCEPT EZ)
[at 83.0MHz (HD)]
[at 98.0MHz (EXCEPT HD)]

Stereo separation : More than 25dB
[at 83.0MHz (HD)]
[at 98.0MHz (EXCEPT HD)]

Intermediate frequency : 10.7MHz

<AM(MW) SECTION>

Sensitivity : 55dB $\pm$ 5dB
(S/N 20 dB) [at 603kHz (EXCEPT U,LH)]
[at 600kHz (U,LH)]
53dB $\pm$ 5dB
[at 999kHz (EXCEPT U,LH)]
[at 1000kHz (U,LH)]
53dB $\pm$ 5dB
[at 999kHz (EXCEPT U,LH)]
[at 1400kHz (U,LH)]

Signal to noise ratio : More than 36dB
[at 999kHz (EXCEPT U,LH)]
[at 1000kHz (U,LH)]

Distortion : Less than 1.5%
[at 999kHz (EXCEPT U,LH)]
[at 1000kHz (U,LH)]

Auto stop level : 50dB + 10/-15dB
[at 999kHz (EXCEPT U,LH)]
[at 1000kHz (U,LH)]

Intermediate frequency : 450kHz

<SW SECTION>(HR)

Sensitivity : 38dB $\pm$ 5dB [at 5.9MHz]
(S/N 20dB) 34dB $\pm$ 5dB [at 12.0MHz]
30dB $\pm$ 8dB [at 17.9MHz]
Signal to noise ratio : More than 36dB [at 12.0MHz]
Distortion : Less than 1.5% [at 12.0MHz]

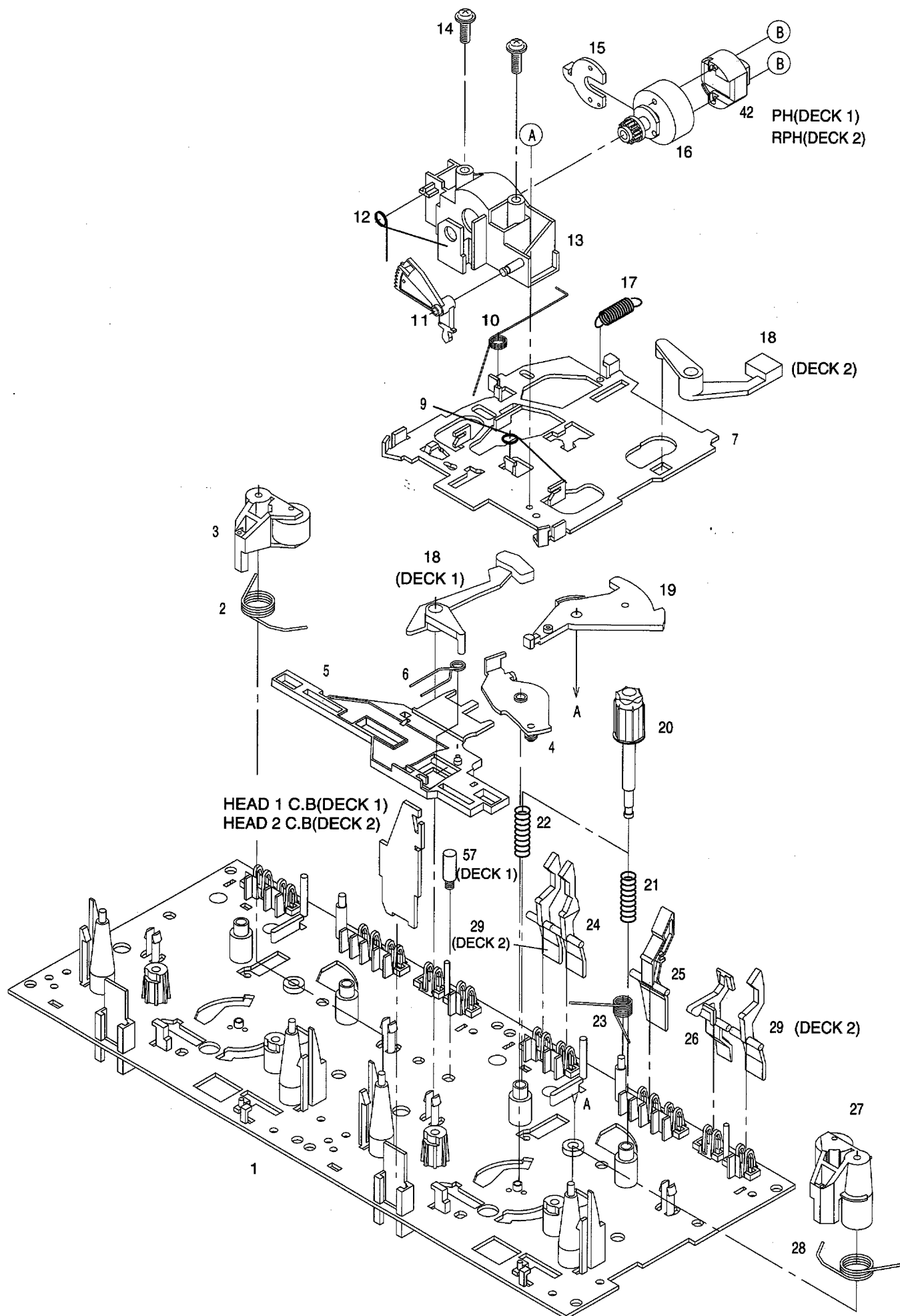
<LW SECTION>(EZ,K,V)

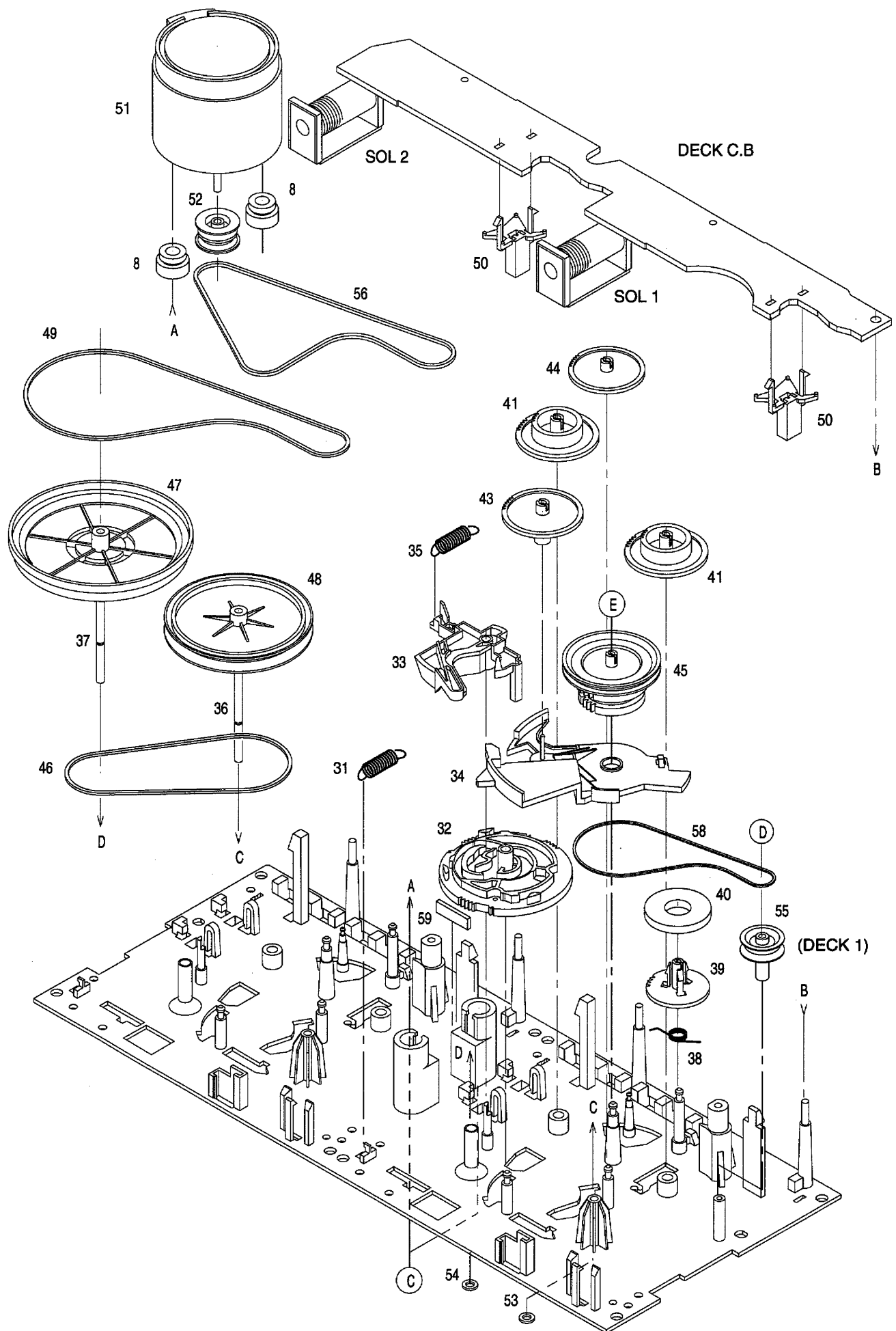
Sensitivity : 64dB $\pm$ 5dB [at 144kHz]
(S/N 20dB) 60dB $\pm$ 5dB [at 198kHz]
60dB $\pm$ 5dB [at 290kHz]
Signal to noise ratio : More than 30dB [at 198kHz]
Distortion : Less than 1.5% [at 198kHz]
Auto stop level : 66dB + 10/-15dB [at 198kHz]
Intermediate frequency : 450kHz

<DECK SECTION>

Tape speed : 3000Hz $\pm$ 45Hz
Wow & flutter : Less than 0.15%
(W.R.M.S)
Take-up torque : 45 + 10/-15g-cm
(FWD, REV)
F.F torque : 100 + 80/-25g-cm
REW torque : 100 + 30/-25g-cm
Back tension : 3 + 4/-1g-cm
(FWD, REV)
PB output level : 300mV $\pm$ 1dB
(SP OUT 2V)
REC/PB output level : 150mV $\pm$ 1dB
(SP OUT 2V)
Distortion (REC/PB) : Less than 2.0%
(NORM, CrO2)
Noise level (PB) : Less than 2.0mV
(NORM, SP OUT 2V, DOLBY OFF)
Less than 1.2mV
(CrO2, SP OUT 2V, DOLBY ON B,C)
Noise level (REC/PB) : Less than 2.4mV
(NORM, SP OUT 2V, DOLBY OFF)
Less than 1.4mV
(CrO2, SP OUT 2V, DOLBY ON B,C)
Crosstalk : More than 60dB
(1kHz, 0VU)
Channel separation : More than 35dB
(1kHz, 0VU)
Erasing ratio : More than 60dB
(at 125Hz, 10VU)
Test tape : TTA-602 (NORMAL)
TTA-615 (CrO2)

TAPE MECHANISM EXPLODED VIEW 1 / 1

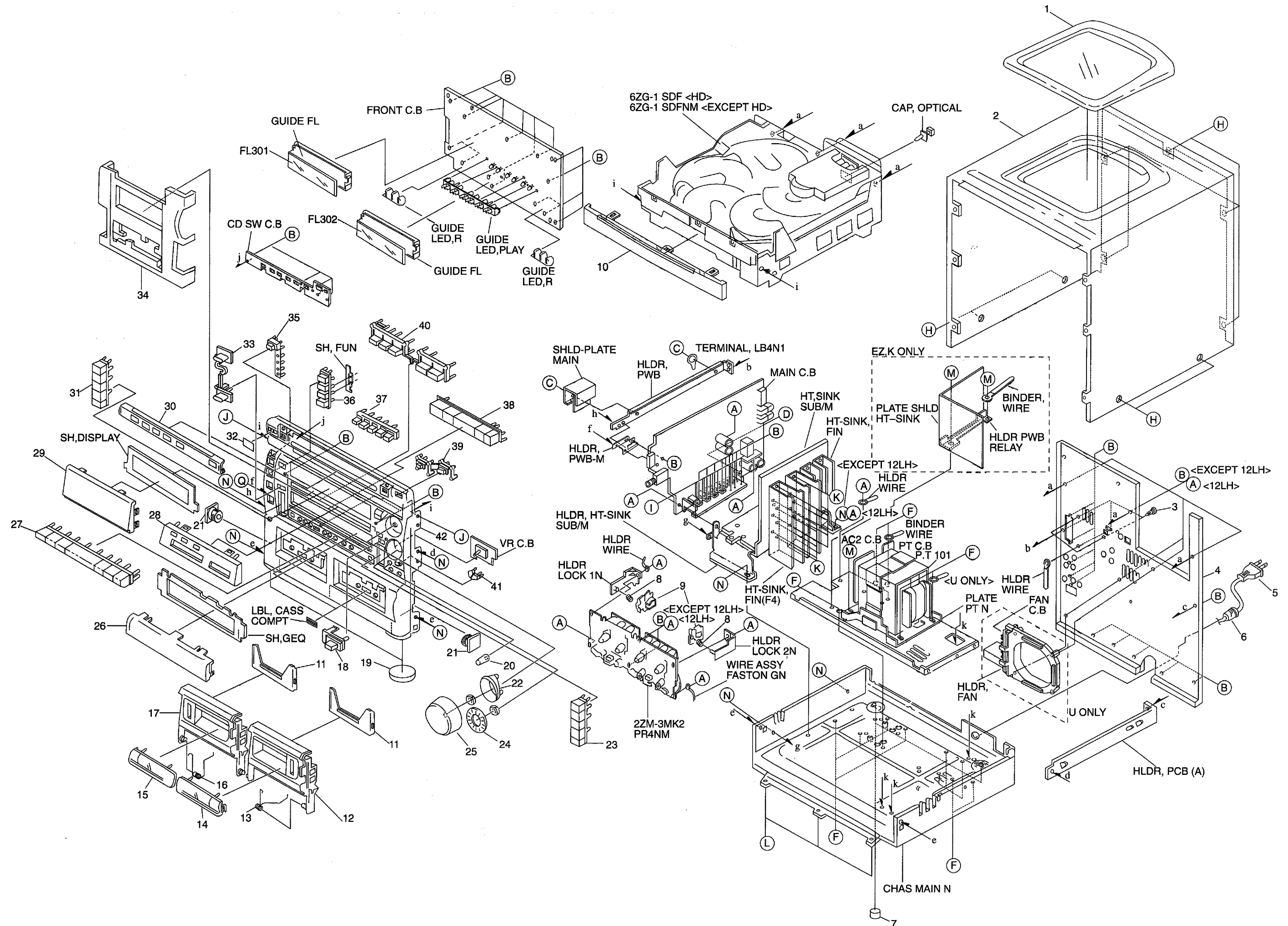




TAPE MECHANISM PARTS LIST 1 / 1

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				



MECHANICAL PARTS LIST 1 / 1

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

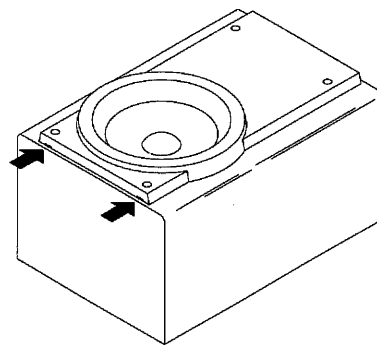
REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	87-MAT-009-010		WINDOW, TOP(U) <U>	26	86-NF9-012-010		WINDOW, GEQ
1	86-MA3-042-010		WINDOW, TOP<EXCEPT U>	27	86-NF9-041-010		KEY, RDS<EZ>
2	86-NFW-014-010		CABI, STEEL<12LH, 15LH>	27	86-NF9-030-010		KEY, BBE<EXCEPT EZ>
2	86-NF9-076-010		CABI, STEEL<EXCEPT 12LH, 15LH>	28	86-NF9-008-010		PANEL, CONTROL
3	87-084-077-010		RIVET, NYL 3.5-4.5	29	86-NF9-067-010		WINDOW, DISPLAY RDS<EZ>
4	86-NF9-085-110		PANEL, REAR UBN M99N<99U>	29	86-NF9-011-010		WINDOW, DISPLAY<EXCEPT EZ>
4	86-NF9-090-010		PANEL, REAR EZBNE N<EZ>	30	86-NF9-010-010		WINDOW, CD
4	86-NF9-091-110		PANEL, REAR KBNE N<K>	31	86-NF9-025-010		KEY, GEQ
4	86-NF9-086-110		PANEL, REAR UBNM 98N<98U>	32	82-NE6-067-010		BADGE, AIWA 30N
4	86-NF9-084-110		PANEL, REAR LHBNM N<9LH>	33	86-NF9-037-010		KEY, GEQ OFF
4	86-NF9-083-110		PANEL, REAR HRJBNM N<HR>	34	86-NF9-007-110		PANEL, FR
4	86-NF9-087-110		PANEL, REAR VJBNM N<V>	35	86-NF9-042-010		KEY, ASSY POWER
4	86-NF9-088-010		PANEL, REAR HDB N<HD>	36	86-NF9-024-010		KEY, FUN<EXCEPT 12LH, 15LH>
4	86-NF9-089-110		PANEL, REAR LHBNM 15N<15LH>	36	86-NH9-009-010		KEY, FUN<12LH, 15LH>
4	86-NF9-103-110		PANEL, REAR LH W/O SPEC<12LH>	37	86-NF9-016-110		KEY, ASSY DISC
⚠ 5	87-050-079-010		AC CORD ASSY, E BLK<EZ, LH, HR, V>	38	86-NF9-043-110		KEY, ASSY PLAY
⚠ 5	87-050-097-010		AC CORD ASSY, H<HD>	39	86-NF9-015-010		KEY, OPEN<EXCEPT 12LH, 15LH>
⚠ 5	87-050-053-010		AC CORD ASSY, U-2<U>	39	86-NH9-008-010		KEY, OPEN<12LH, 15LH>
⚠ 5	87-A80-059-010		AC CORD ASSY, K 3P(5A) <K>	40	86-NF9-039-110		KEY, REC
6	87-085-185-010		BUSHING, AC CORD(E) <EXCEPT HD, U>	41	86-NF9-029-010		KEY, MEMORY<EXCEPT 12LH, 15LH>
6	87-085-189-010		BUSHING, AC CORD(U) CM-22C<U>	41	86-NH9-017-010		KEY, MEMORY<12LH, 15LH>
6	87-085-184-010		BUSHING, AC CORD(D) CM22A<HD>	42	86-NF9-062-210		CABI, FR E<EZ, K, V>
7	87-085-221-010		FOOT, H 13.5	42	86-NF9-073-210		CABI, FR U 98<98U>
8	82-NF5-228-010		SPR-C, LOCK<EXCEPT U>	42	86-NF9-061-210		CABI, FR U<99U>
8	86-NF9-224-010		SPR-C, LOCK<U>	42	86-NF9-001-210		CABI, FR<9LH, HR, HD>
9	82-NF5-229-010		PLATE, LOCK(*)	42	86-NF9-078-010		CABI, FR H ST15<15LH>
10	86-NF9-075-010		PANEL, TRAY ASSY E<U, EZ, K, V>	42	86-NF9-077-010		CABI, FR H ST12<12LH>
10	86-NF9-074-010		PANEL, TRAY ASSY<9LH, HR, HD>	A	87-067-579-010		BVT2+3-8 W/O SLOT
10	86-NFW-009-010		PANEL, TRAY ASSY<12LH, 15LH>	B	87-067-703-010		BVT2+3-10 W/O SLOT
11	86-NF6-061-010		REFLECTOR, CASS	C	87-741-094-410		UT2+3-6 W/P SLOT
12	86-NF9-065-010		BOX, CASS 2E<U, EZ, K, V>	D	87-NF4-224-010		S-SCREW, IT3B+3-8CU
12	86-NF9-004-010		BOX, CASS 2<9LH, HR, HD>	F	87-067-975-010		S-SCREW, IT+4-8 SWCH12A
12	86-NH9-004-010		BOX, CASS 2<12LH, 15LH>	H	87-067-641-010		UTT2+3-8 W/O SLOT BLK
13	82-NF5-219-010		SPR-T, EJECT 2(SIN)	I	87-067-581-010		BVT2+3-15 W/O SLOT
14	86-NF9-014-010		WINDOW, CASS 2	J	87-721-097-410		QT2+3-12 W/O SLOT
15	86-NF9-013-010		WINDOW, CASS 1	K	87-B10-090-010		BVIT3B+3-12 GOLD
16	82-NF5-218-010		SPR-T, EJECT 1(SIN)	L	87-067-673-010		BVTT+3-8 BLK
17	86-NF9-064-010		BOX, CASS 1E<U, EZ, K, V>	M	87-078-191-010		S-SCREW, IT+4-10
17	86-NF9-003-010		BOX, CASS 1<9LH, HR, HD>	N	87-591-095-410		QIT+3-8
17	86-NH9-003-010		BOX, CASS 1<12LH, 15LH>	P	87-067-584-010		BVT2+3-6 W/O SLOT
18	86-NF9-038-010		KEY, DSP OFF	Q	87-723-096-410		QT2+3-10 BLK
19	86-NF9-034-010		RING, FOOT				
20	86-NT1-023-010		KNOB, RTRY MIC				
21	87-063-165-010		OIL-DMPR, 150				
22	86-NF9-032-010		RING, VOL				
23	86-NF9-026-010		KEY, DSP				
24	86-NF9-033-010		KNOB, RTRY JOG<EXCEPT 12LH, 15LH>				
24	86-NH9-013-010		KNOB, RTRY JOG<12LH, 15LH>				
25	86-NF9-031-010		KNOB, RTRY VOL<EXCEPT 12LH, 15LH>				
25	86-NH9-012-010		KNOB, RTRY VOL<12LH, 15LH>				

SPEAKER DISASSEMBLY INSTRUCTIONS

Type.1

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

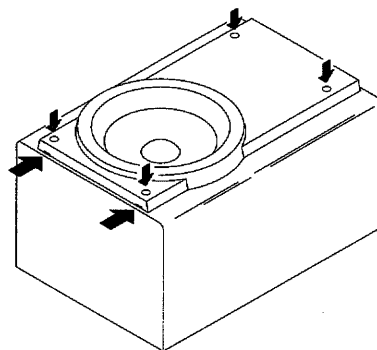
Insert a flat-bladed screwdriver into the position indicated by the arrows and remove the panel. Remove the screws of each speaker unit and then remove the speaker units.



Type.2

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

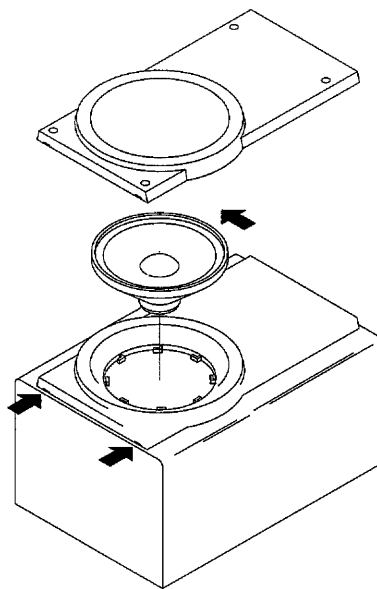
Remove the grill frame and four pieces of rubber caps by pulling out with a flat-bladed screwdriver. Remove the screws from the hole where installed rubber caps. Insert a flat-bladed screwdriver into the position indicated by the arrows and remove the panel. Remove the screws of each speaker unit and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



Type.3

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

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



SX-NAVF9 <Y,YJ,YL,YJ7>

SX-SNAVF9 <Y>

SX-NAVF99 <YU>

SX-SNAVF12 <YL>

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-NSW-001-010		PANEL, FR R<9 (YJB, YLB, YJ7B, YB), 99YUB>
1	86-NSW-017-010		PANEL, FR R ST<9 (YJST, YLST, YJ7ST, YST), 99YUST>
2	86-NSW-002-010		PANEL, FR L<9 (YJB, YLB, YJ7B, YB), 99YUB>
2	86-NSW-018-010		PANEL, FR L ST<9 (YJST, YLST, YJ7ST, YST), 99YUST>
3	86-NSW-019-010		PANEL, FR R ASSY<12YL>
4	86-NSW-020-010		PANEL, FR L ASSY<12YL>
5	86-NSW-008-010		GRILLE, FRAME ASSY
6	86-NSW-602-010		SPKR, W<EXCEPT 12YL>
7	86-NSW-604-010		SPKR, TW<EXCEPT 12YL>
8	86-NSW-606-010		SPKR, W 160 ASSY<12YL>
9	83-096-614-010		SPEAKER CODE

SX-FNF98 <YUBNC>

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-NS9-602-010		SPKR, W 160
2	86-NS9-604-010		SPKR, T 80
3	86-NS5-606-010		SPKR, 80
4	86-NSA-003-010		GRILLE, FRAME ASSY
5	86-NSA-001-010		PANEL, FR
6	86-NSA-007-010		PANEL, TW
7	86-NSA-008-010		HLDR, SQ

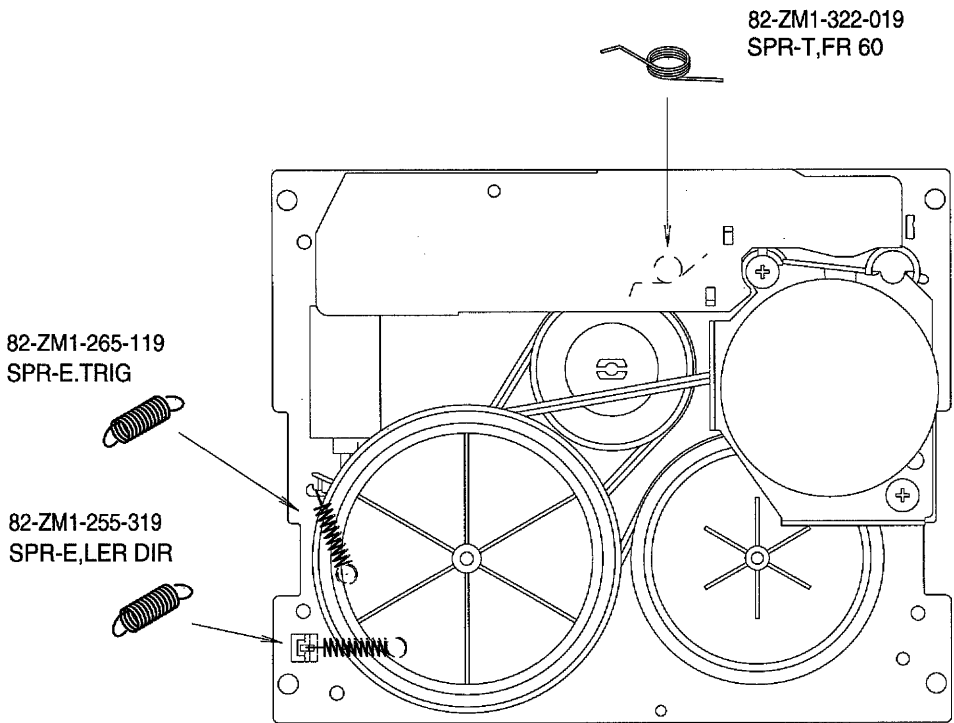
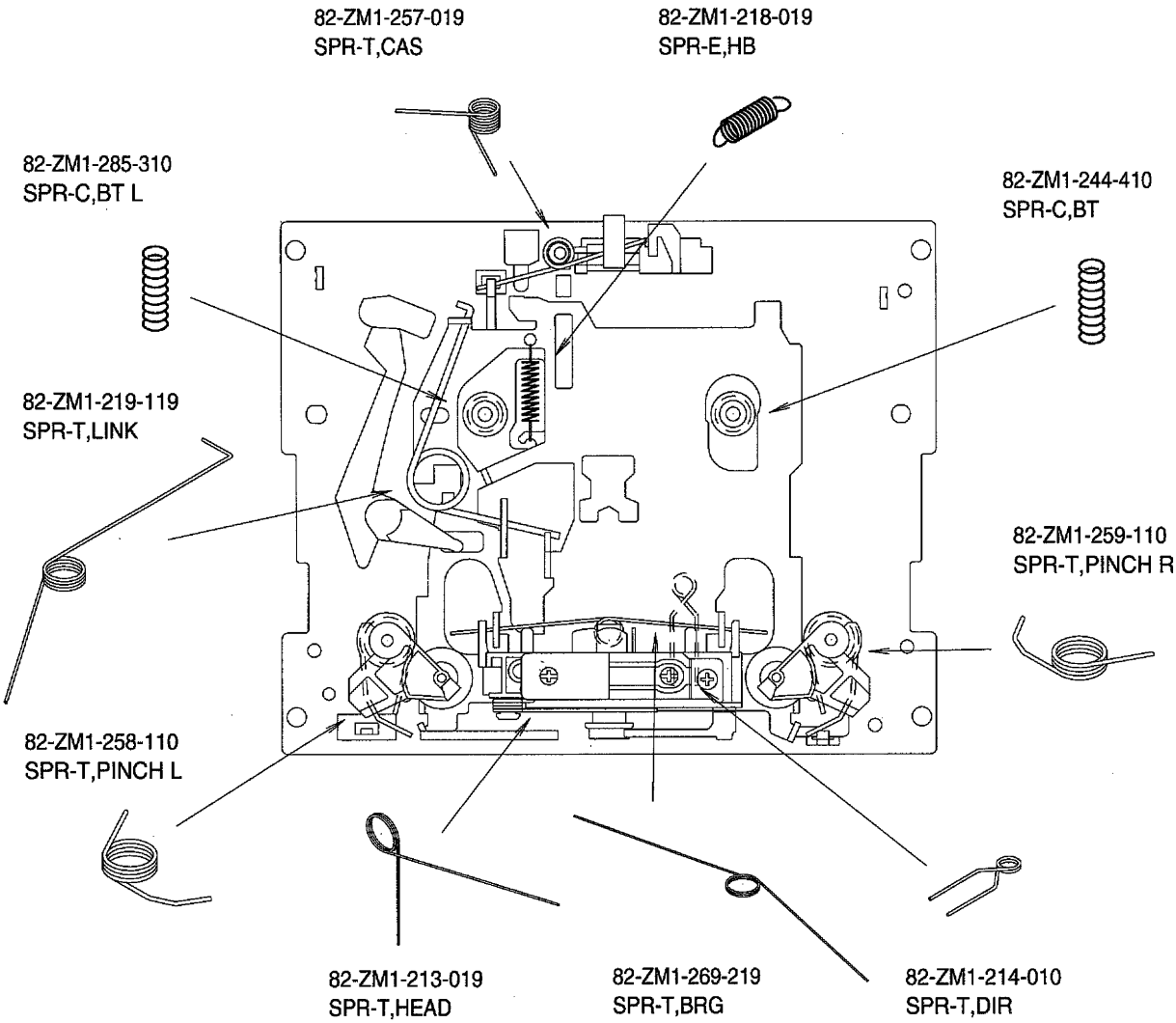
SX-R280 <Y, YJ, YJ7>

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-010-010		SPKR, CORD
3	85-NSL-601-010		SPKR, 100

SPRING APPLICATION POSITION



ACCESSORIES / PACKAGE LIST

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

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	86-NF9-913-010		IB,UA(ESF)M-98<98U>
1	86-NF9-912-010		IB,UA(ESF)M99<99U>
1	86-NF9-914-010		IB,KA(E) E<K>
1	86-NF9-915-010		IB,EA(EGFSI) E<EZ>
1	86-NF9-917-010		IB,LH(BR)-F12<12LH>
1	86-NF9-910-110		IB,LHA(ESP)M<9LH,15LH>
1	86-NF9-911-010		IB,HA(ECA)M<HR,HD>
1	86-NF9-916-010		IB,VA-M<V>
2	86-MA3-703-010		RC UNIT,6AS01
3	87-043-115-010		FEEDER-ANT,FM<EXCEPT EZ,K>
4	87-006-225-010		ANT,LOOP ANT NC2<EXCEPT HR>
5	87-043-106-010		ANT,FM 1007 AWG<EZ,K>
△ 6	87-A90-312-010		PLUG,CONVERSION WTN-1157R1<9(LH,HR),15LH>
△ 6	87-009-724-010		PLUG,ADPTR<HD>
7	87-A90-054-010		ANT,LOOP AM-CON C<HR>
8	87-043-095-010		ANT,WIRE<HR>

REFERENCE NAME LIST

ELECTRICAL SECTION

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

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- -	
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アイワ株式会社
AIWA CO.,LTD.

9301978, 750038

Tokyo Japan