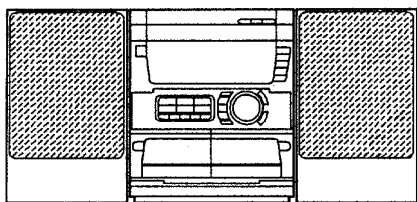


aiwa



NSX-MT70 NSX-MT75 NSX-AV85



COMPACT DISC STEREO
CASSETTE RECEIVER

- BASIC TAPE MECHANISM : 2ZM-3MK2 PR4NM / YPR4NM
- BASIC CD MECHANISM : 4ZG-1 Z1DNM / Z1MD
- TYPE : 70U,75U,
85(EZ,LH,HE)

SYSTEM	CD CASSEIVER	SPEAKER	SUB WOOFER	REMOTE CONTROLLER	
NSX-MT70	CX-NMT70 (TYPE : U)	SX-NA74 SX-R210 SX-C400	TS-W35 (OPTIONAL)	RC - 7AS08	
NSX-MT75			TS-W35		
NSX-AV85	CX-NAV85 (TYPE : EZ,HE)	SX-NAV85 SX-CR423	-		
	CX-NAV85 (TYPE : LH)	SX-NAV85 SX-R270 SX-C600			

- If requiring information about the CD mechanism, see Service Manual of 4ZG-1, S/M Code No. 09-974-187-50T.

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SPECIFICATIONS <NSX-MT70 U AND NSX-MT75 U>

<FM Tuner section>

Tuning range
Usable sensitivity(IHF)
Antenna terminals

87.5 MHz to 108 MHz
 13.2 dBf
 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

<Amplifier section>

Power output

Front

100 W + 100 W (50 Hz - 20 kHz,
 T.H.D.less than 1%, 6 ohms)

Rear (Surround)

10 W + 10 W (1 kHz,T.H.D.less than
 1%, 16 ohms)

Center

20 W (1 kHz,T.H.D.less than 1%, 8
 ohms)

Total harmonic distortion

0.05% (90 W, 1 kHz, 6 ohms, DIN
 AUDIO)

Inputs

VIDEO/AUX : 210 mV(adjustable)

MD : 210mV (adjustable)

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

Outputs

LINE OUT: 200mV

SUPER WOOFER: 2.4 V

SPEAKERS: accept speakers of
 6 ohms or more

SURROUND SPEAKERS:

accept speakers of 16 ohms or
 more

CENTER SPEAKER 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

CrO₂ tape: 50 Hz - 16000 Hz

Normal tape: 50 Hz -15000 Hz

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

Signal-to noise ratio

AC bias

Recording system

Deck 1 : playback head x 1

Heads

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

90 dB (1 kHz, 0 dB)

Harmonic distortion

0.03 % (1 kHz, 0 dB)

Wow and flutter

Unmeasurable

<Speaker system SX-NA74>

Cabinet type

3 way, bass reflex (magnetic
 shielded type)

Speakers

Woofer :

160 mm (6³/₈ in.) cone type

Tweeter :

80 mm (3¹/₄ in.) cone type

Super tweeter:

20 mm (1³/₁₆ in.) ceramic type

Impedance

6 ohms

Output sound pressure level

87 dB/W/m

Dimensions (W x H x D)

243 x 304 x 227mm

(9⁵/₈ X 12 X 9 in.)

Weight

3.6 kg (7 lbs 15 oz.)

<General>

Power requirements

120 VAC, 60 Hz

Power consumption

140 W

Dimensions of main unit

260 x 309 x 363 mm

(10¹/₂ X 12¹/₄ X 14³/₈ in.)

Weight

10 kg (22 lbs 1 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 (NSX-AV85 LH,HE>

<FM Tuner section>

Tuning range	87.5 MHz to 108 MHz
Usable sensitivity(IHF)	15.8 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

<Amplifier section>

Power output	Front 150 W + 150 W (6 ohms, T.H.D.10%, 1kHz) Rear (Surround) 12.5 W + 12.5 W (16 ohms, T.H.D.10%, 1kHz) Center 25 W (8 ohms,T.H.D.10%, 1kHz)
Total harmonic distortion	0.05% (100 W, 1 kHz, 6 ohms, DIN AUDIO)
Inputs	VIDEO/AUX : 210 mV(adjustable) MD : 210mV (adjustable) MIC 1,MIC 2: 1.4mV (10 kohms)
Outputs	LINE OUT: 200mV SUPER WOOFER: 2.7 V SPEAKERS: accept speakers of 6 ohms or more SURROUND SPEAKERS: accept speakers of 16 ohms or more CENTER SPEAKER 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	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 ($\lambda = 780$ nm)
D-A converter	1 bit dual
Signal-to-noise ratio	90 dB (1 kHz, 0 dB)
Harmonic distortion	0.03 % (1 kHz, 0 dB)
Wow and flutter	Unmeasurable

<Speaker system SX-NAV85>

Cabinet type	2 way, bass reflex (magnetic shielded type)
Speakers	Woofer : 160 mm cone type Tweeter : 80 mm cone type
Impedance	6 ohms
Output sound pressure level	87 dB/W/m
Dimensions (W x H x D)	235 x 304 x 250 mm
Weight	4.4 kg

<General>

Power requirements	120 V/220-230V/240 V AC switchable, 50/60 Hz
Power consumption	185 W
Dimensions of main unit	260 x 309 x 370 mm
Weight of main unit	10.6 kg

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Under license from BBE Sound, Inc.

SPECIFICATIONS (NSX-AV85 EZ)

<FM Tuner section>

Tuning range
Usable sensitivity(IHF)
Antenna terminals

87.5 MHz to 108 MHz
 16.8 dBf
 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
Antenna

350 uV/m
 Loop antenna

<LW Tuner section>

Tuning range

144 kHz to 290 kHz

Usable sensitivity

1400 uV/m

Antenna

Loop antenna

<Amplifier section>

Power output

Front

Rated 100 W + 100 W (6 ohms,
 T.H.D.1%, 1kHz/DIN 45500)
 Reference : 125W + 125W (6 ohms,
 T.H.D 10%, 1kHz/DIN 45324)
 DIN MUSIC POWER:
 210W + 210W

Surround (Rear)

Rated 10 W + 10 W (16 ohms,
 T.H.D.1%, 1kHz/DIN 45500)
 Reference : 12.5 W + 12.5 W
 (16 ohms,T.H.D. 10%, 1kHz/DIN
 45324)

DIN MUSIC POWER :

25W + 25 W

Center

Rated 20 W (8 ohms,T.H.D.1%,
 1kHz/DIN 45500)
 Reference: 25 W (8 ohms, T.H.D.
 10%, 1 kHz/DIN 45324)

DIN MUSIC POWER

50 W

Total harmonic distortion

0.05% (90 W, 1 kHz, 6 ohms, DIN
 AUDIO)

Inputs

VIDEO/AUX : 210 mV(adjustable)
 MD : 210mV (adjustable)
 MIC 1,MIC 2: 1.4mV (10 kohms)

Outputs

LINE OUT: 200mV
 SUPER WOOFER: 2.4 V
 SPEAKERS: accept speakers of
 6 ohms or more
 SURROUND SPEAKERS:
 accept speakers of 16 ohms or
 more
 CENTER SPEAKER 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

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

90 dB (1 kHz, 0 dB)

Harmonic distortion

0.03 % (1 kHz, 0 dB)

Wow and flutter

Unmeasurable

<Speaker system SX-NAV85>

Cabinet type

2 way, bass reflex (magnetic
 shielded type)

Speakers

Woofer :
 160 mm cone type
 Tweeter :
 80 mm cone type

Impedance

6 ohms

Output sound pressure level

87 dB/W/m

Dimensions (W x H x D)

235 x 304 x 250 mm

Weight

4.4 kg

<General>

Power requirements

230 VAC, 50 Hz

Power consumption

180 W

**Dimensions of main unit
 (W x H x D)**

260 x 309 x 363 mm

Weight of main unit

10.5 kg

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 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 käyttäjän turvallisuusluokan 1 ylittävälle näkymättömälle lasersäteilylle.

WARNING!

Om apparaten används på annat sätt än vad som specificeras i denna bruksanvisning, kan användaren utsättas för osynlig laserstråling, som överskrider gränsen för laserklass 1.

CAUTION

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

ATTENTION

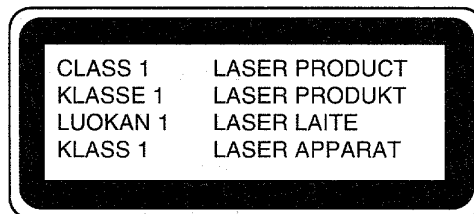
L'utilisation de commandes, réglages ou procédures autres que ceux spécifiés peut entraîner une dangereuse exposition aux radiations.

ADVARSEL

Usynlig laserstråling ved åbning, når sikkerhedsafbrydere er ude af funktion. Undgå udsættelse for stråling.

This Compact Disc player is classified as a CLASS 1 LASER product.

The CLASS 1 LASER PRODUCT label is located on the rear exterior.

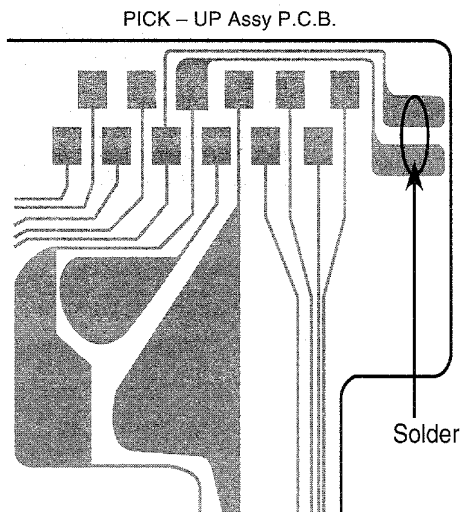


Precaution to replace Optical block

(KSS-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				C101	87-A10-059-090		CAP,E 3300-75
	87-020-454-010	IC, DN6851		C102	87-A10-059-090		CAP,E 3300-75
	87-NF4-642-010	IC, LC866548V-5E54		C103	87-016-658-090		CAP,E 4700-35 M SMG
	87-070-083-010	IC, GPIU181X		C104	87-016-658-090		CAP,E 4700-35 M SMG
	87-A20-455-010	IC, HA12211		C105	87-012-368-080		C-CAP,S 0.1-50 Z F
	87-A20-355-010	IC, CXA1553P		C106	87-012-368-080		C-CAP,S 0.1-50 Z F
	87-A20-083-010	IC, BA3835S		C107	87-012-368-080		C-CAP,S 0.1-50 Z F
	87-A20-450-040	C-IC, BH3864F		C108	87-012-368-080		C-CAP,S 0.1-50 Z F
	87-A20-056-010	IC, BA3880S		C109	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
	87-070-289-040	IC, BU2092F		C110	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
	87-A20-456-040	C-IC, BH3810FS		C111	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
	87-017-888-080	C-IC, NJM4558MD		C112	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
	86-NFZ-655-010	IC, LC72131D(Z)		C113	87-010-385-080		CAP,E 220-25 M SME<EXCEPT U>
	87-A20-438-010	IC, LA1837		C113	87-010-247-080		CAP,E 100-50 SME<U>
	87-A20-440-040	C-IC, BU1920FS<EZ>		C114	87-010-385-080		CAP,E 220-25 M SME<EXCEPT U>
	87-A20-453-010	C-IC, NJM1102B		C115	87-010-385-080		CAP,E 220-25 M SME<EXCEPT U>
	87-A20-613-040	C-IC, BU9262AFS		C116	87-010-385-080		CAP,E 220-25 M SME<EXCEPT U>
	87-A20-452-040	C-IC, TC9260FS		C116	87-010-247-080		CAP,E 100-50 SME<U>
				C117	87-010-430-080		CAP,E 100-63
				C118	87-010-263-080		CAP,E 100-10 SME
TRANSISTOR				C119	87-010-260-080		CAP,E 47-25 SME
	87-026-263-080	C-TR, RN1410		C120	87-010-403-080		CAP,E 3.3-50 M SME
	89-213-702-010	TR, 2SB1370E		C121	87-012-140-080		C-CAP,S 470P-50 J CH
	87-A30-076-080	C-TR, 2SC3052F		C122	87-010-263-080		CAP,E 100-10 M SME<U>
	87-A30-075-080	C-TR, 2SA1235F		C123	87-010-247-080		CAP,E 100-50 M SME
	87-026-610-080	TR, KTC3198GR		C124	87-010-112-080		CAP,E 100-16 M SME
	87-A30-073-080	C-TR, RT1N 141C		C125	87-010-235-080		CAP,E 470-16 SME
	87-A30-085-070	C-TR, CSA1362GR		C126	87-010-196-080		C-CAP,S 0.1-25 ZF C2012<EZ>
	87-A30-083-080	TR, CSD1489B		C127	87-010-196-080		C-CAP,S 0.1-25 ZF C2012<EZ>
	87-A30-084-080	TR, CSB1058B		C129	87-010-393-080		CAP,E 100-35 M SME
	87-A30-071-080	C-TR, RT1N 144C		C200	87-010-196-080		C-CAP,S 0.1-25 ZF C2012<EZ>
	87-026-609-080	TR, KTA1266GR		C201	87-010-400-080		CAP,E 0.47-50 M SME
	87-A30-086-070	C-TR, CSD1306E		C202	87-010-400-080		CAP,E 0.47-50 M SME
	87-A30-106-070	C-TR, CMBT5551		C205	87-010-181-080		C-CAP,S 1800P-50 K B
	87-A30-111-080	TR, C2N5401		C206	87-010-181-080		C-CAP,S 1800P-50 K B
	87-A30-097-010	TR, FN1016		C207	87-010-404-080		CAP,E 4.7-50 M SME
	87-A30-098-010	TR, FP1016		C208	87-010-404-080		CAP,E 4.7-50 M SME
	87-A30-089-010	FET, 2SK2723		C209	87-010-404-080		CAP,E 4.7-50 M SME
	87-A30-072-080	C-TR, RT1P 144C		C210	87-010-404-080		CAP,E 4.7-50 M SME
	87-A30-087-080	C-FET, 2SK2158		C211	87-010-186-080		C-CAP,S 4700P-50 K B
	87-A30-074-080	C-TR, RT1P 141C		C212	87-010-186-080		C-CAP,S 4700P-50 K B
	89-327-143-080	C-TR, 2SC2714(O)		C213	87-010-260-080		CAP,E 47-25 SME
	89-505-434-540	C-FET, 2SK543-TB(4/5)<EZ>		C214	87-010-260-080		CAP,E 47-25 SME
	87-A30-112-080	TR, C2N5551		C215	87-010-196-080		C-CAP,S 0.1-25 Z F
	89-420-612-010	TR, 2SD2061 (2W)		C219	87-010-196-080		C-CAP,S 0.1-25 ZF C2012<EZ>
	87-026-232-080	TR, DTA144WK		C219	87-012-368-080		C-CAP,S 0.1-50 FZ<EXCEPT EZ>
DIODE				C220	87-010-196-080		C-CAP,S 0.1-25 ZF C2012<EZ>
	87-017-437-080	DIODE, 1N4148M		C220	87-012-368-080		C-CAP,S 0.1-50 FZ<EXCEPT EZ>
	87-A40-269-080	C-DIODE, MC2836		C221	87-010-196-080		C-CAP,S 0.1-25 ZF C2012<EZ>
	87-A40-270-080	C-DIODE, MC2838		C221	87-012-368-080		C-CAP,S 0.1-50 FZ<EXCEPT EZ>
	87-070-274-080	DIODE, 1N4003 SEM		C222	87-010-194-080		C-CAP,S 0.047-25 Z F<EXCEPT EZ>
	87-A40-205-080	ZENER, UZ6.2BSC		C225	87-A10-516-080		C-CAP,S 100P-200 J CH
	87-A40-211-080	ZENER, UZ36BSA		C226	87-A10-516-080		C-CAP,S 100P-200 J CH
	87-A40-206-080	ZENER, UZ10BSC		C227	87-018-134-080		CAP,TC U 0.01-16NYUP050<EZ>
	87-A40-202-080	ZENER, UZ5.1BSB		C228	87-018-131-080		CAP,TC U 1000P-50KB <EZ>
	87-070-178-090	DIODE, 1N5402-BD54		C229	87-016-461-080		C-CAP,S 0.47-16 ZF
	87-A40-246-080	DIODE, 1N4148T-72		C230	87-016-461-080		C-CAP,S 0.47-16 ZF
	87-017-481-080	ZENER, UZ-5.6BSB		C231	87-010-176-080		C-CAP,S 680P-50 J SL<EZ>
	87-A40-192-080	ZENER, UZ4.3BSA		C232	87-010-176-080		C-CAP,S 680P-50 J SL<EZ>
	87-A40-239-080	ZENER, UZ5.6BSA		C235	87-010-213-080		CAP,S 0.015-25 K B<EZ>
	87-A40-004-080	ZENER, MT2J16A		C236	87-010-197-080		C-CAP,S 0.01-25 K B<EZ>
	87-A40-115-060	DIODE, RS603M		C237	87-010-197-080		C-CAP,S 0.01-25 K B<EZ>
	87-A40-116-060	DIODE, RS403L-B-D-51		C238	87-010-197-080		C-CAP,S 0.01-25 K B<EZ>
	87-A40-186-080	ZENER, UZ5.1BSC		C239	87-010-318-080		C-CAP,S 47P-50 J CH<EZ>
MAIN C.B				C240	87-010-318-080		C-CAP,S 47P-50 J CH<EZ>
				C242	87-010-406-080		CAP,E 22-50 M SME
				C243	87-010-197-080		C-CAP,S 0.01-25 K B
				C244	87-010-406-080		CAP,E 22-50 M SME

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
C301	87-010-318-080		C-CAP,S 47P-50 J CH	C418	87-010-404-080		CAP,E 4.7-50 M SME
C302	87-010-318-080		C-CAP,S 47P-50 J CH	C421	87-010-401-080		CAP,E 1-50 M SME
C303	87-012-157-080		C-CAP,S 330P-50 J CH GRM	C422	87-010-401-080		CAP,E 1-50 M SME
C304	87-012-157-080		C-CAP,S 330P-50 J CH GRM	C516	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C305	87-012-145-080		C-CAP,S 270P-50 J CH	C601	87-010-322-080		C-CAP,S 100P-50 J CH<EZ>
C306	87-012-145-080		C-CAP,S 270P-50 J CH	C602	87-010-322-080		C-CAP,S 100P-50 J CH<EZ>
C307	87-010-196-080		C-CAP,S 0.1-25 Z F C2012	C605	87-010-180-080		C-CAP,S 1500P-50 K B<EXCEPT EZ>
C311	87-010-198-080		C-CAP,S 0.022-25 K B	C606	87-010-180-080		C-CAP,S 1500P-50 K B
C312	87-010-198-080		C-CAP,S 0.022-25 K B	C609	87-010-322-080		C-CAP,S 100P-50 J CH<EZ>
C313	87-010-180-080		C-CAP,S 1500P-50 K B	C610	87-010-322-080		C-CAP,S 100P-50 J CH<EZ>
C314	87-010-180-080		C-CAP,S 1500P-50 K B	C611	87-016-081-080		C-CAP,S 0.1-16 KR
C315	87-010-178-080		C-CAP,S 1000P-50 K B	C613	87-010-404-080		CAP,E 4.7-50 M SME
C316	87-010-178-080		C-CAP,S 1000P-50 K B	C614	87-010-404-080		CAP,E 4.7-50 M SME
C317	87-012-142-080		C-CAP,S 0.33-16 Z F	C615	87-010-183-080		C-CAP,S 2700P-50 K B<EZ>
C318	87-012-142-080		C-CAP,S 0.33-16 Z F	C619	87-010-263-080		CAP,E 100-10 SME
C319	87-012-141-080		C-CAP,S 0.22-16 Z F	C620	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C320	87-012-141-080		C-CAP,S 0.22-16 Z F	C621	87-010-263-080		CAP,E 100-10 SME
C321	87-012-141-080		C-CAP,S 0.22-16 Z F	C622	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C322	87-012-141-080		C-CAP,S 0.22-16 Z F	C623	87-010-194-080		C-CAP,S 0.047-25 Z F
C324	87-010-260-080		CAP,E 47-25 SME	C629	87-012-368-080		C-CAP,S 0.1-50 FZ
C325	87-010-370-080		CAP,E 330-6.3 M SME	C630	87-010-196-080		C-CAP,S 0.1-25 ZF<EZ>
C327	87-010-404-080		CAP,E 4.7-50 M SME	C631	87-015-785-080		C-CAP, 0.1-25 ZF<EZ>
C328	87-010-404-080		CAP,E 4.7-50 M SME	C632	87-010-196-080		C-CAP,S 0.1-25 ZF<EZ>
C332	87-010-196-080		C-CAP,S 0.1-25 Z F C2012	C633	87-010-197-080		C-CAP,S 0.01-25 K B<EZ>
C335	87-010-401-080		CAP,E 1-50 M SME	C636	87-010-322-080		C-CAP,S 100P-50 J CH<EZ>
C336	87-010-401-080		CAP,E 1-50 M SME	C637	87-010-322-080		C-CAP,S 100P-50 J CH<EZ>
C337	87-010-196-080		C-CAP,S 0.1-25 Z F C2012	C646	87-010-322-080		C-CAP,S 100P-50 J CH
C339	87-010-196-080		C-CAP,S 0.1-25 Z F C2012	C647	87-010-322-080		C-CAP,S 100P-50 J CH
C340	87-010-196-080		C-CAP,S 0.1-25 Z F C2012	C701	87-010-381-080		CAP,E 330-16 SME
C351	87-012-140-080		C-CAP,S 470P-50 J CH	C702	87-010-404-080		CAP,E 4.7-50 M SME
C352	87-012-140-080		C-CAP,S 470P-50 J CH	C703	87-010-197-080		C-CAP,S 0.01-25 K B
C354	87-010-175-080		C-CAP,S 560P-50 J SL	C704	87-010-197-080		C-CAP,S 0.01-25 K B
C355	87-010-178-080		C-CAP,S 1000P-50 K B	C711	87-010-263-080		CAP,E 100-10 SME
C356	87-010-260-080		CAP,E 47-25 SME	C712	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C357	87-010-197-080		C-CAP,S 0.01-25 K B	C713	87-010-197-080		C-CAP,S 0.01-25 K B
C358	87-010-183-080		C-CAP,S 2700P-50 K B	C714	87-010-197-080		C-CAP,S 0.01-25 K B
C359	87-010-183-080		C-CAP,S 2700P-50 K B	C715	87-010-322-080		C-CAP,S 100P-50 J CH<EZ>
C360	87-010-183-080		C-CAP,S 2700P-50 K B	C721	87-010-312-080		C-CAP,S 15P-50 J CH
C370	87-010-196-080		C-CAP,S 0.1-25 Z F C2012	C722	87-010-312-080		C-CAP,S 15P-50 J CH
C371	87-010-179-080		C-CAP,S 1200P-50 K B	C723	87-010-178-080		C-CAP,S 1000P-50 K B
C372	87-010-179-080		C-CAP,S 1200P-50 K B	C725	87-010-178-080		C-CAP,S 1000P-50 K B
C373	87-010-179-080		C-CAP,S 1200P-50 K B	C727	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C374	87-010-179-080		C-CAP,S 1200P-50 K B	C728	87-010-248-080		CAP,E 220-10 SME
C375	87-010-545-080		CAP,E 0.22-50 M SME	C755	87-010-197-080		C-CAP,S 0.01-25 K B
C376	87-010-545-080		CAP,E 0.22-50 M SME	C756	87-010-197-080		C-CAP,S 0.01-25 K B
C378	87-010-196-080		C-CAP,S 0.1-25 Z F C2012	C757	87-010-318-080		C-CAP,S 47P-50 J CH
C381	87-010-197-080		C-CAP,S 0.01-25 K B	C758	87-010-149-080		C-CAP,S 5P-50 CH
C382	87-010-318-080		C-CAP,S 47P-50 J CH	C761	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C383	87-010-197-080		C-CAP,S 0.01-25 K B	C762	87-010-197-080		C-CAP,S 0.01-25 K B
C384	87-010-402-080		CAP,E 2.2-50 M SME	C763	87-010-194-080		C-CAP,S 0.047-25 Z F
C385	87-010-184-080		C-CAP,S 3300P-50 K B	C765	87-010-197-080		C-CAP,S 0.01-25 K B
C386	87-010-196-080		C-CAP,S 0.1-25 Z F C2012	C766	87-010-197-080		C-CAP,S 0.01-25 K B
C388	87-010-154-080		C-CAP,S 10P-50 D CH	C767	87-010-405-080		CAP,E 10-50 M SME
C401	87-010-187-080		C-CAP,S 5600P-50 K B	C768	87-010-197-080		C-CAP,S 0.01-25 K B
C402	87-010-187-080		C-CAP,S 5600P-50 K B	C769	87-010-408-080		CAP,E 47-50 SME
C403	87-010-405-080		CAP,E 10-50 M SME	C770	87-015-821-080		C-CAP, 0.047-50 Z F GR
C404	87-010-405-080		CAP,E 10-50 M SME	C771	87-010-407-080		CAP,E 33-50 SME
C405	87-010-260-080		CAP,E 47-25 SME	C772	87-010-194-080		C-CAP,S 0.047-25 Z F
C406	87-010-101-080		CAP,E 220-16 SME	C773	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C407	87-010-188-080		C-CAP,S 6800P-50 K B	C774	87-010-263-080		CAP,E 100-10 SME
C408	87-010-188-080		C-CAP,S 6800P-50 K B	C775	87-010-404-080		CAP,E 4.7-50 M SME
C409	87-012-140-080		C-CAP,S 470P-50 J CH	C776	87-010-197-080		C-CAP,S 0.01-25 K B<EXCEPT HE>
C410	87-012-140-080		C-CAP,S 470P-50 J CH	C777	87-010-400-080		CAP,E 0.47-50 M SME
C411	87-010-197-080		C-CAP,S 0.01-25 K B	C778	87-010-401-080		CAP,E 1-50 M SME
C412	87-010-197-080		C-CAP,S 0.01-25 K B	C779	87-010-401-080		CAP,E 1-50 M SME
C413	87-010-195-080		C-CAP,S 0.068-25 Z F C2012	C780	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C414	87-010-195-080		C-CAP,S 0.068-25 Z F C2012	C781	87-010-405-080		CAP,E 10-50 M SME
C415	87-010-404-080		CAP,E 4.7-50 M SME	C782	87-010-405-080		CAP,E 10-50 M SME
C416	87-010-404-080		CAP,E 4.7-50 M SME	C783	87-015-819-080		C-CAP, 0.01-50 K B
C417	87-010-404-080		CAP,E 4.7-50 M SME	C784	87-010-197-080		C-CAP,S 0.01-25 K B

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
C785	87-010-400-080		CAP,E 0.47-50 M SME	J940	81-754-629-010		CONNECTOR,XH 2P(UL)<HE>
C786	87-010-400-080		CAP,E 0.47-50 M SME	L201	87-003-383-010		COIL,1UH K
C787	87-010-184-080		C-CAP,S 3300P-50 K B	L202	87-003-383-010		COIL,1UH K
C788	87-010-184-080		C-CAP,S 3300P-50 K B	L301	87-A50-049-010		COIL,TRAP 85K(COI)
C789	87-010-179-080		C-CAP,S 1200P-50 K B	L302	87-A50-049-010		COIL,TRAP 85K(COI)
C790	87-010-179-080		C-CAP,S 1200P-50 K B	L351	87-007-342-010		COIL,OSC 85KHZ BIAS
C791	87-010-405-080		CAP,E 10-50 M SME	L601	87-003-231-080		C-COIL,2125 1UH
C793	87-010-178-080		C-CAP,S 1000P-50 KB<EXCEPT EZ>	L770	87-005-849-080		COIL,10UH K CECS
C793	87-012-156-080		C-CAP,S 220P-50 J CH GRM<EZ>	L771	87-A50-165-010		COIL,FM DET-N(TOK)
C794	87-010-406-080		CAP,E 22-50 M SME	L772	87-A90-052-010		FLTR,CFMT-450A (TOK)<HE>
C795	87-010-596-080		C-CAP,S 0.047-16 K R	L772	87-A90-245-010		FLTR,CFAZH-450 (TOK)<EXCEPT HE>
C796	87-010-403-080		CAP,E 3.3-50 M SME	L850	87-005-847-080		COIL,2.2UH K CECS<EZ>
C797	87-010-180-080		C-CAP,S 1500P-50 K B<HE>	L832	87-005-847-080		COIL,2.2UH K CECS
C797	87-010-182-080		C-CAP,S 2200P-50 K B<U,LH>	L791	87-A50-027-010		COIL, 1 POLE MPX (TOK)<EZ,HE>
C798	87-010-180-080		C-CAP,S 1500P-50 K B<HE>	L791	87-003-293-010		COIL, 1 TRAP MPX<U,LH>
C798	87-010-182-080		C-CAP,S 2200P-50 K B<U,LH>	L792	87-A50-027-010		COIL, 1 POLE MPX (TOK)<EZ,HE>
C799	87-010-194-080		C-CAP,S 0.047-25 Z F	L792	87-003-293-010		COIL, 1 TRAP MPX<U,LH>
C812	87-010-197-080		C-CAP,S 0.01-25 K B	L941	87-A50-022-010		COIL,ANT SW (COI) 7.96MHZ<HE>
C814	87-010-197-080		C-CAP,S 0.01-25 K B	L941	87-A50-020-010		COIL,ANT LW (COI) 252KHZ<EZ>
C820	87-010-408-080		CAP,E 47-50 SME	L942	87-A50-019-010		COIL,OSC LW (COI) 856KHZ<EZ>
C821	87-010-197-080		C-CAP,S 0.01-25 K B	L942	87-A50-173-010		COIL,OSC SW-N (COI)<HE>
C822	87-010-197-080		C-CAP,S 0.01-25 K B	L943	87-005-372-080		COIL,1UH (K) LAL03<HE>
C823	87-010-197-080		C-CAP,S 0.01-25 K B	L944	87-A50-159-010		COIL,10UH K C2B<HE>
C828	87-010-196-080		C-CAP,S 0.1-25 Z F C2012	L981	86-NF4-666-010		COIL,AM PACK3 (TOK)<HE>
C829	87-010-196-080		C-CAP,S 0.1-25 Z F C2012	L981	86-NF4-650-010		COIL,AM PACK 4N(TOM)<U,LH>
C859	87-010-197-080		C-CAP,S 0.01-25 K B<EZ>	L981	86-NF4-668-010		COIL,AM PACK 2(TOM)<EZ>
C861	87-010-156-080		C-CAP,S 220P-50 J CH<EZ>	PR201	87-026-691-080		FUSE,10A 125V 251<U>
C862	87-010-156-080		C-CAP,S 220P-50 J CH<EZ>	PR201	87-026-682-080		PROTECTOR,10A 491SERIES 60V
C863	87-012-140-080		C-CAP,S 470P-50 J CH<EZ>				<EXCEPT U>
C864	87-010-405-080		CAP,E 10-50 M SME<EZ>	PR202	87-026-691-080		FUSE,10A 125 251<U>
				PR202	87-026-682-080		PROTECTOR,10A 491SERIES 60V
							<EXCEPT U>
C865	87-010-196-080		C-CAP,S 0.1-25 ZF C2012<EZ>	R123	87-022-200-080		RES,M/F 0.56-1W J<EXCEPT EZ>
C866	87-010-405-080		CAP,E 10-50 M SME<EZ>	R231	87-A00-262-080		RES,M/F 0.15-2W J
C867	87-010-197-080		C-CAP,S 0.01-25 K B<EZ>	R232	87-A00-262-080		RES,M/F 0.15-2W J
C868	87-010-316-080		C-CAP,S 33P-50 J CH<EZ>	RY101	87-045-389-010		RELAY,12V OSA-SS-212DM5
C869	87-010-314-080		C-CAP,S 22P-50 J CH<EZ>	SFR301	87-024-435-080		SFR,33K H RH063MC
C940	87-010-197-080		C-CAP,S 0.01-25 K B<EZ,HE>				
C941	87-010-314-080		C-CAP,S 22P-50 J CH<HE>	SFR302	87-024-435-080		SFR,33K H RH063MC

REF.NO.	PART NO.	KANRI NO.	DESCRIPTION
△ SW101	87-A90-165-010		SW,SL 1-2-3 SWS2301<HE,LH>
△ T1	87-A60-317-010		TERMINAL, 1P MSC
△ T2	87-A60-317-010		TERMINAL, 1P MSC

AUDIO C.B

C403	87-010-992-080	C-CAP,S 0.047-25 K B MK212
C404	87-010-992-080	C-CAP,S 0.047-25 K B MK212
C405	87-010-401-040	CAP,E 1-50 M SME
C406	87-010-401-040	CAP,E 1-50 M SME
C407	87-010-184-080	C-CAP,S 3300P-50 K B
C408	87-010-184-080	C-CAP,S 3300P-50 K B
C409	87-010-592-080	C-CAP,S 0.022-16 K R
C410	87-010-592-080	C-CAP,S 0.022-16 K R
C411	87-016-463-080	C-CAP, 0.33-16 K B C3216
C412	87-016-463-080	C-CAP, 0.33-16 K B C3216
C413	87-010-196-080	C-CAP,S 0.1-25 Z F C2012
C414	87-010-374-040	CAP,E 47-10 SME
C415	87-010-374-040	CAP,E 47-10 SME
C416	87-010-196-080	C-CAP,S 0.1-25 Z F C2012
C417	87-016-081-080	C-CAP,S 0.1-16 K R
C418	87-010-405-040	CAP,E 10-50 M SME
C419	87-010-196-080	C-CAP,S 0.1-25 Z F C2012<U>
C601	87-010-405-040	CAP,E 10-50 M SME
C602	87-010-186-080	C-CAP,S 4700P-50 K B
C603	87-010-405-040	CAP,E 10-50 M SME
C604	87-010-382-040	CAP,E 22-25 SME
C607	87-010-321-080	C-CAP,S 82P-50 J CH
C608	87-010-196-080	C-CAP,S 0.1-25 Z F C2012
C609	87-010-545-040	CAP,E 0.22-50 M SME
C611	87-010-177-080	C-CAP,S 820P-50 J SL
C612	87-010-597-080	C-CAP,S 0.056-16 RK
C614	87-010-248-040	CAP,E 220-10 M SME
CN501	88-913-191-110	FF-CABLE,13P 1.25
FB401	87-008-373-080	FILTER,EMIBL01 RN1<U>

RE C.B

C101	87-010-198-080	C-CAP,S 0.022-25 K B
C102	87-010-198-080	C-CAP,S 0.022-25 K B
S101	87-A90-535-010	SW,RTRY EC16B24304-W0 NON
S326	87-A90-095-080	SW,TACT EVQ11G04M
S327	87-A90-095-080	SW,TACT EVQ11G04M

DECK C.B

W001	82-ZM3-601-019	RBN,CORD,4P-75
SFR1	87-024-581-019	SFR,3.3K DIA 6H
SOL1	82-ZM1-618-010	SOL ASSY, 27
SOL2	82-ZM1-618-010	SOL ASSY, 27
SW1	87-A90-248-019	SW,MICRO ESE11SH2CXQ
SW2	87-A90-248-019	SW,MICRO ESE11SH2CXQ
SW3	87-A90-248-019	SW,MICRO ESE11SH2CXQ
SW4	87-036-110-010	SW,MICRO SPPB62
SW5	87-036-110-010	SW,MICRO SPPB62
SW6	87-036-110-010	SW,MICRO SPPB62
SW8	87-A90-248-019	SW,MICRO ESE11SH2CXQ
SW9	87-036-110-010	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
CN351 83-NEG-608-010 CONN ASSY,8P-RPB

PRO C.B

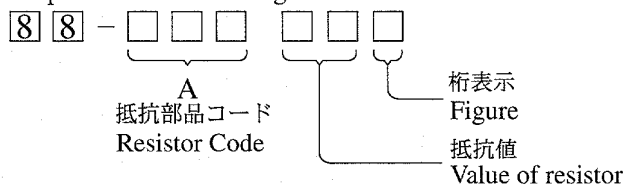
C101	87-012-368-080	C-CAP,S 0.1-50 F
C102	87-012-368-080	C-CAP,S 0.1-50 F
C103	87-010-398-090	CAP,E 2200-35V
C104	87-010-398-090	CAP,E 2200-35V
C105	87-012-368-080	C-CAP,S 0.1-50 F<EZ>
C106	87-010-382-080	CAP, ELECT 22-25V
C107	87-012-368-080	C-CAP,S 0.1-50 F<EZ>
C108	87-012-368-080	C-CAP,S 0.1-50 F<EZ>
C109	87-016-369-080	C-CAP,S 0.033-25 B K
C110	87-010-194-080	CAP, CHIP 0.047
C112	87-010-196-080	CHIP CAPACITOR,0.1-25
C117	87-012-368-080	C-CAP,S 0.1-50 F<EZ>
C118	87-012-368-080	C-CAP,S 0.1-50 F<EZ>
C201	87-010-186-080	CAP,CHIP 4700P
C202	87-010-402-080	CAP, ELECT 2.2-50V
C203	87-010-322-080	C-CAP,S 100P-50 J CH<EZ>
C204	87-010-405-080	CAP, ELECT 10-50V
C205	87-A10-516-080	C-CAP,S 100P-200 J CH
C208	87-010-260-080	CAP, ELECT 47-25V
C209	87-010-993-080	C-CAP,S 0.056-25 B
C210	87-010-196-080	CHIP CAPACITOR,0.1-25
C211	87-010-197-080	CAP, CHIP 0.01 DM
C212	87-010-196-080	CHIP CAPACITOR,0.1-25
C213	87-010-406-080	CAP, ELECT 22-50
C214	87-010-197-080	C-CAP,S 0.01-25 BK<EZ>
C301	87-010-183-080	C-CAP,S 2700P-50 B
C302	87-010-402-080	CAP, ELECT 2.2-50V
C303	87-010-322-080	C-CAP,S 100P-50 J CH<EZ>
C304	87-010-382-080	CAP, ELECT 22-25V
C305	87-A10-516-080	C-CAP,S 100P-200 J CH
C308	87-010-260-080	CAP, ELECT 47-25V
C309	87-010-993-080	C-CAP,S 0.056-25 B
C310	87-010-196-080	CHIP CAPACITOR,0.1-25
C311	87-010-197-080	CAP, CHIP 0.01 DM
C312	87-010-196-080	CHIP CAPACITOR,0.1-25
C313	87-010-406-080	CAP, ELECT 22-50
C314	87-010-197-080	C-CAP,S 0.01-25 BK<EZ>
C315	87-012-368-080	C-CAP,S 0.1-50 F<EZ>
C316	87-012-368-080	C-CAP,S 0.1-50 F<EZ>
C501	87-010-176-080	C-CAP,S 680P-50 SL
C502	87-010-176-080	C-CAP,S 680P-50 SL
C507	87-016-456-080	CAP,E 22-16 LLA
C508	87-010-196-080	CHIP CAPACITOR,0.1-25
C509	87-010-112-080	CAP, ELECT 100-16V
C510	87-010-380-080	CAP, ELECT 47-16V
C512	87-016-472-080	CAP,E 22-16 SME(K)
C513	87-010-196-080	CHIP CAPACITOR,0.1-25
C514	87-010-263-080	CAP, ELECT 100-10V
C518	87-010-378-080	CAP, ELECT 10-16V
C519	87-010-378-080	CAP, ELECT 10-16V<EZ>
C519	87-010-404-080	CAP, ELECT 4.7-50V<EXCEPT EZ>
C520	87-010-378-080	CAP, ELECT 10-16V<EZ>
C520	87-010-404-080	CAP, ELECT 4.7-50V<EXCEPT EZ>
C521	87-010-805-080	C-CAP,S 1-16 FZ<EZ>
C521	87-010-400-080	CAP, ELECT 0.47-50V<EXCEPT EZ>
C522	87-010-378-080	CAP, ELECT 10-16V
C523	87-010-400-080	CAP, ELECT 0.47-50V
C524	87-016-081-080	C-CAP,S 0.1-16 RK
C525	87-010-248-080	CAP, ELECT 220-10V
C526	87-012-140-080	CAP 470P
C527	87-010-186-080	CAP,CHIP 4700P
C528	87-010-186-080	CAP,CHIP 4700P
C529	87-010-404-080	CAP, ELECT 4.7-50V
C532	87-A10-229-080	C-CAP,S 0.68-10 K W5
C533	87-012-393-080	C-CAP,S 0.22-16 R K
C534	87-012-393-080	C-CAP,S 0.22-16 R K
C535	87-010-404-080	CAP, ELECT 4.7-50V
C536	87-010-404-080	CAP, ELECT 4.7-50V
C537	87-012-393-080	C-CAP,S 0.22-16 R K
C538	87-012-393-080	C-CAP,S 0.22-16 R K

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
C539	87-016-081-080		C-CAP,S 0.1-16 RK	C701	87-010-401-080		CAP, ELECT 1-50V
C542	87-016-081-080		C-CAP,S 0.1-16 RK	C702	87-010-401-080		CAP, ELECT 1-50V
C543	87-016-081-080		C-CAP,S 0.1-16 RK	C703	87-010-263-080		CAP, ELECT 100-10V
C546	87-016-081-080		C-CAP,S 0.1-16 RK	C707	87-016-526-080		C-CAP,S 0.47-16 BK
C548	87-010-178-080		C-CAP,S 1000P-50 BK<EZ>	C708	87-016-526-080		C-CAP,S 0.47-16 BK
C549	87-010-178-080		C-CAP,S 1000P-50 BK<EZ>	C709	87-010-380-080		CAP, ELECT 47-16V
C550	87-010-314-080		C-CAP,S 22P-50 J CH<EZ>	C712	87-010-197-080		C-CAP,S 0.01-25 BK<EZ>
C604	87-010-319-080		C-CAP,S 56P-50 CH	C713	87-010-178-080		C-CAP,S 1000P-50 BK<EZ>
C605	87-010-319-080		C-CAP,S 56P-50 CH	FB106	87-008-372-080		FILTER, EMI BL01 RN1<EXCEPT EZ>
C606	87-016-526-080		C-CAP,S 0.47-16 BK	FB512	87-008-372-080		FILTER, EMI BL01 RN1<EZ>
C607	87-010-197-080		CAP, CHIP 0.01 DM	FB516	87-008-474-080		F-BEAD,BL02RN1-R62T<EZ>
C608	87-010-180-080		C-CER 1500P	FB705	87-008-372-080		FILTER, EMI BL01 RN1<EZ>
C609	87-010-197-080		CAP, CHIP 0.01 DM	J201	87-A60-380-010		JACK,PIN 3P O/W/R YKC21-3
C610	87-010-197-080		CAP, CHIP 0.01 DM	L201	87-003-383-010		COIL,1UH-S
C611	87-010-197-080		CAP, CHIP 0.01 DM	L301	87-003-383-010		COIL,1UH-S
C612	87-010-181-080		CAP,CHIP S 1800P	L601	87-005-212-080		COIL,220UH
C613	87-010-196-080		CHIP CAPACITOR,0.1-25	R215	87-A00-257-080		RES,M/F 0.15-1W J
C615	87-010-263-080		CAP, ELECT 100-10V	R315	87-A00-257-080		RES,M/F 0.15-1W J
C616	87-010-404-080		CAP, ELECT 4.7-50V	R524	87-022-365-080		C-RES,S 100K-1/10W F
C617	87-010-196-080		CHIP CAPACITOR,0.1-25				
C618	87-010-263-080		CAP, ELECT 100-10V				
C621	87-010-403-080		CAP, ELECT 3.3-50V				
C622	87-A10-201-080		C-CAP,S 0.33-16 BK<EZ>				
C622	87-012-141-080		C-CAP,S 0.22-16 ZF<EXCEPT EZ>				
C624	87-010-197-080		C-CAP,S 0.01-25 BK<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)				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

KTA1266GR
KTC3198GR



E C B

C2N5551
CSD1489B
CSB1058B



E B C

C2N5401



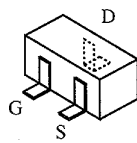
B C E

2SB1370
2SD2061
FN1016
FP1016

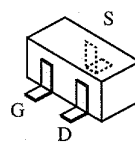


G D G

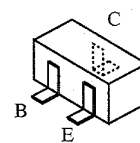
2SK2723



2SK2158



2SK543-TB(4/5)

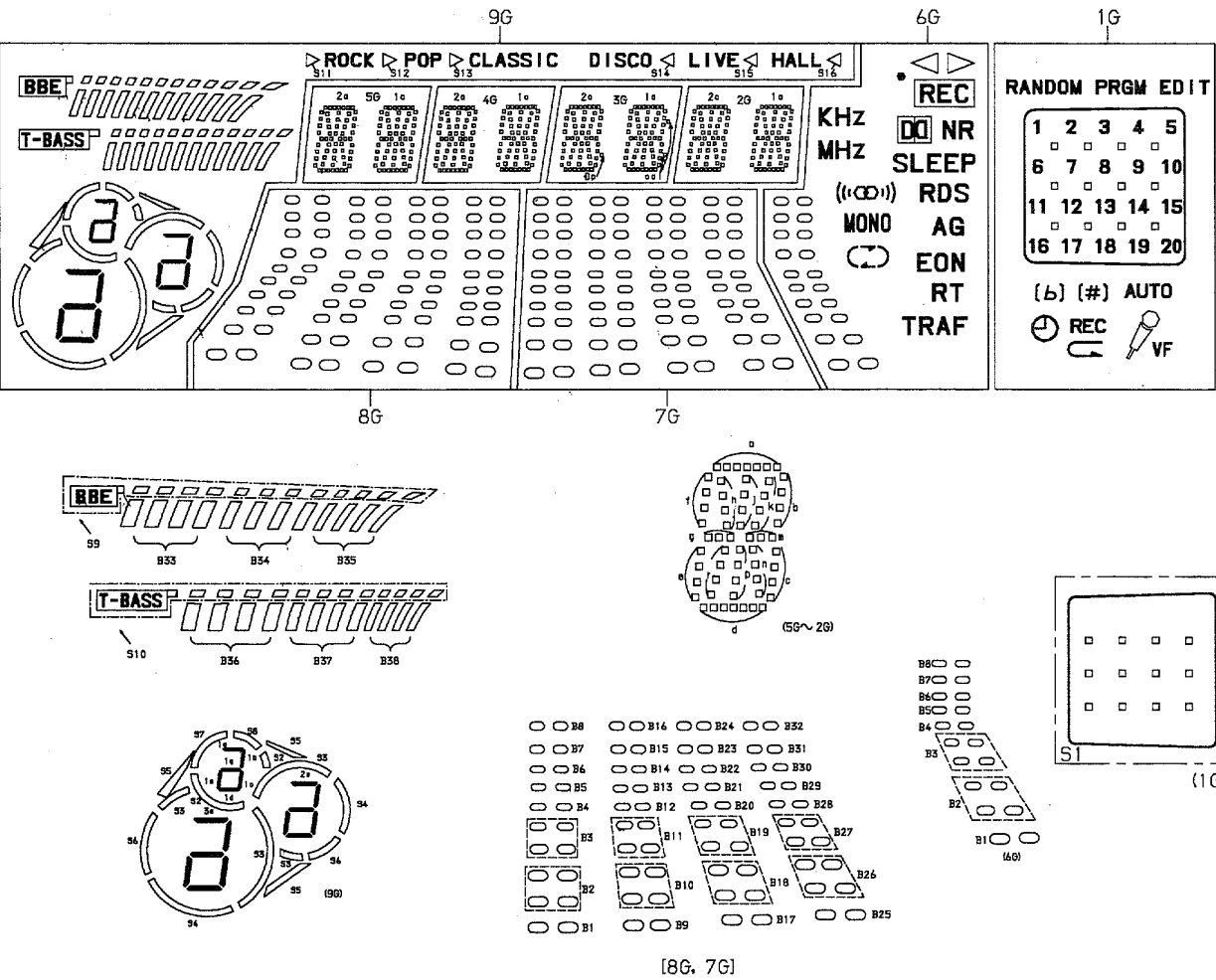


2SA1235F	DTA144WK
2SC2714	RN1404
2SC3052F	RT1N141C
CMBT5551	RT1N144C
CSA1362GR	RT1P141C
CSD1306E	RT1P144C

FL GRID ASSIGNMENT & ANODE CONNECTION

GRID ASSIGNMENT

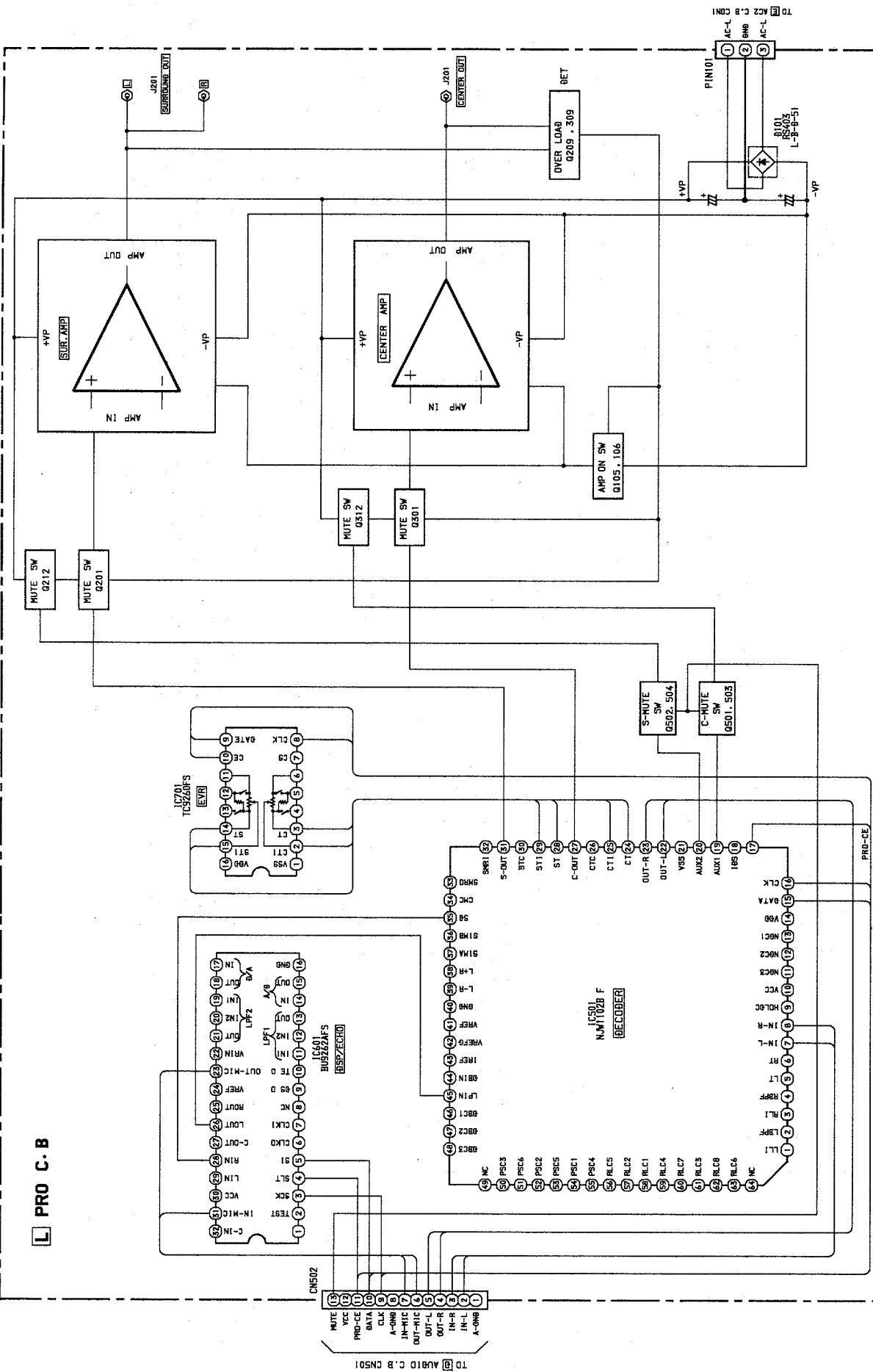
FL, BJ530 GK



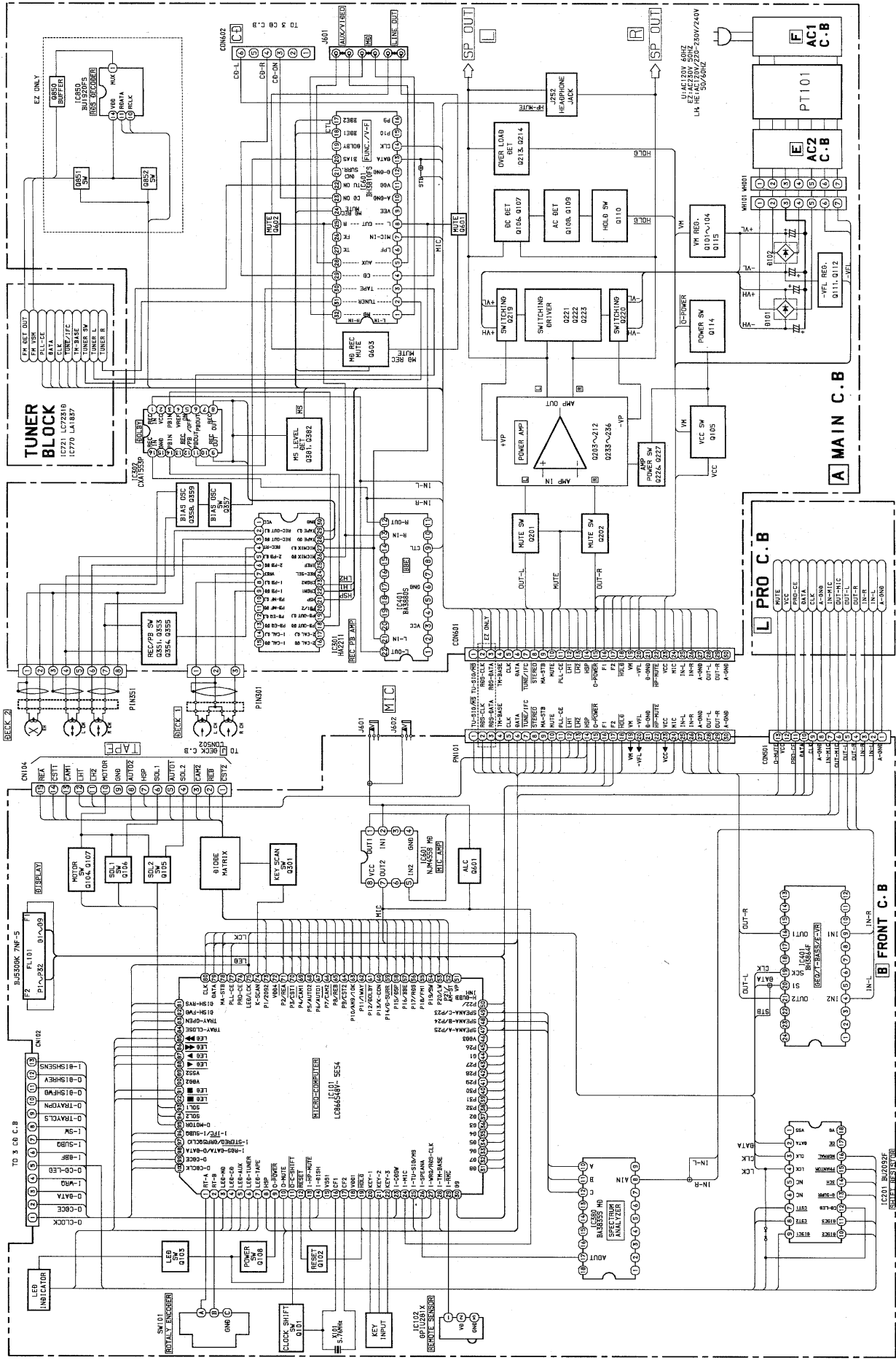
ANODE CONNECTION

	9G	8G, 7G	6G	5G, 4G	3G	2G	1G
P1	S8	B32		-	col (down)	-	RANDOM
P2	S2	B24		1d	1d	1d	-
P3	1b	B16	SLEEP	1n	1n	1n	PRGM
P4	1c	B8	B8	1p	1p	1p	EDIT
P5	1e	B31		1r	1r	1r	1
P6	1a, 1d, 1g	B23	REC	1e	1e	1e	2
P7	2b	B15	KHz	1c	1c	1c	3
P8	2c	B7	B7	1g	1g	1g	4
P9	2e	B30	MHz	1m	1m	1m	5
P10	2a, 2d, 2g	B22	-	1f	1f	1f	6
P11	3b	B14	DO NR	1b	1b	1b	7
P12	3c	B6	B6	1k	1k	1k	8
P13	3e	B29	RDS	1j	1j	1j	9
P14	3a, 3d, 3g	B21	-	1h	1h	1h	10
P15	S3	B13	-	1a	1a	1a	11
P16	S5	B5	B5	-	col (up)	-	12
P17	S7	B28	-	-	dp	-	13
P18	S4	B20	-	2d	2d	2d	14
P19	S6	B12	-	2n	2n	2n	15
P20	S16	B4	B4	2p	2p	2p	16
P21	S15	B27	AG	2r	2r	2r	17
P22	S14	B19		2e	2e	2e	18
P23	S13	B11	EON	2c	2c	2c	19
P24	S12	B3	B3	2g	2g	2g	20
P25	S11	B26	RT	2m	2m	2m	AUTO
P26	B36	B18	MONO	2f	2f	2f	VF
P27	B37	B10	TRAF	2b	2b	2b	
P28	B38	B2	B2	2k	2k	2k	REC
P29	B33	B25		2j	2j	2j	
P30	B34	B17		2h	2h	2h	(#)
P31	B35	B9		2a	2a	2a	(b)
P32	ROCK POP CLASSIC S10	B1	B1	-	-	-	S1
P33	DISCO LIVE HALL	-	-	-	-	-	-
P34	S9	-	-	-	-	-	-
P35	-	-	-	-	-	-	b #

BLOCK DIAGRAM — 1 (PROLOGIC)



BLOCK DIAGRAM - 2 (MAIN / FRONT)

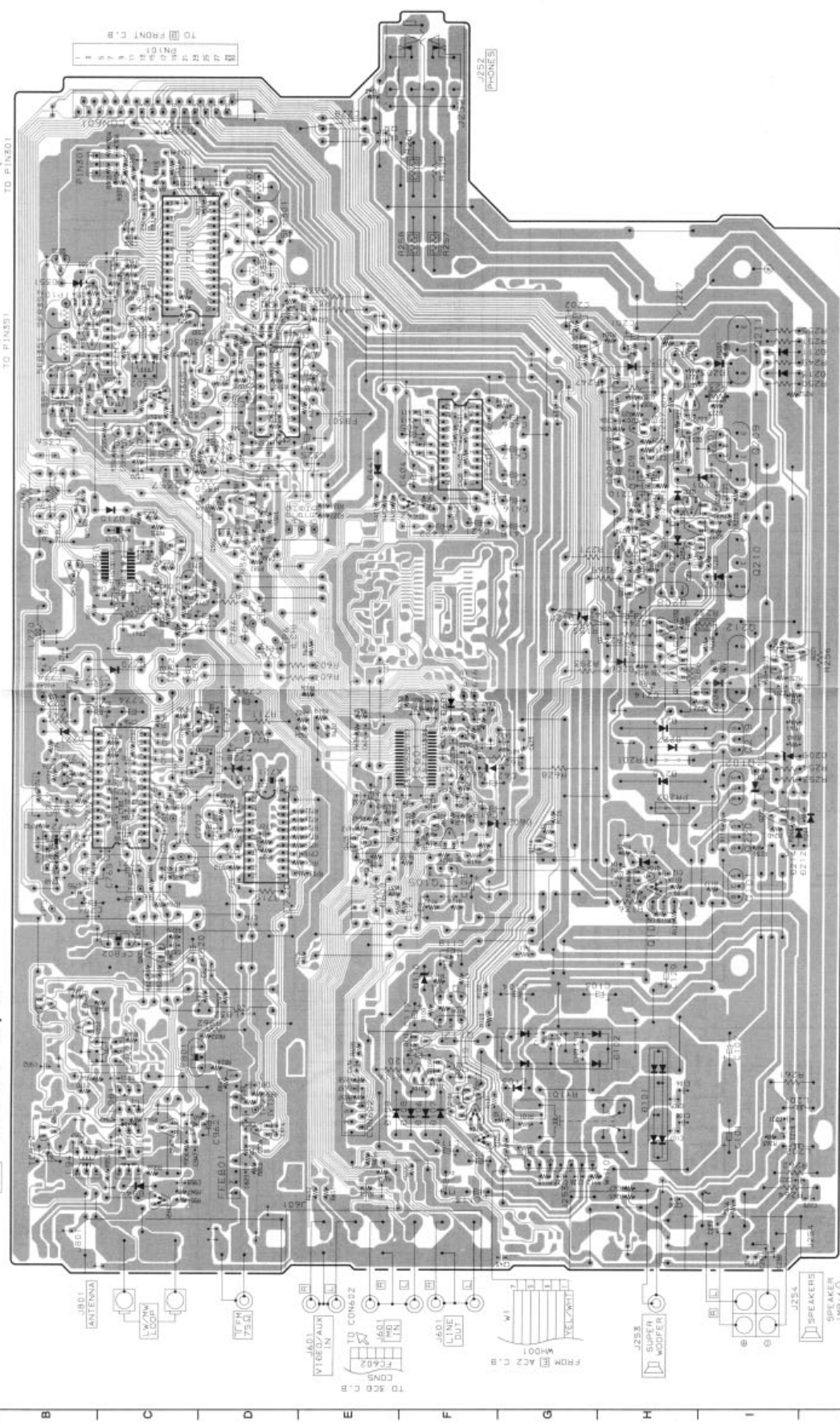


A MAIN C.B

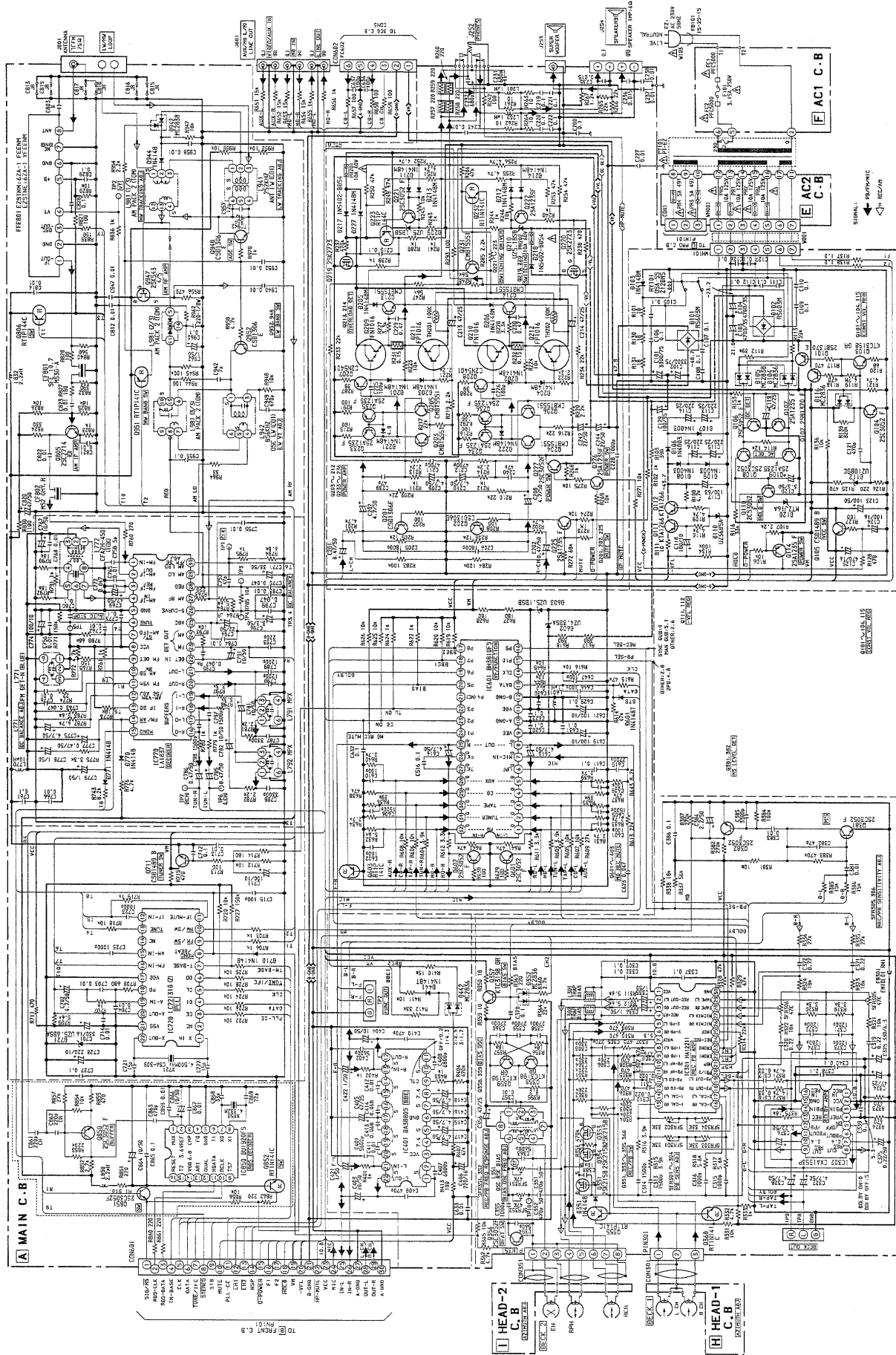
FROM HEAD-2 C.B
CON501

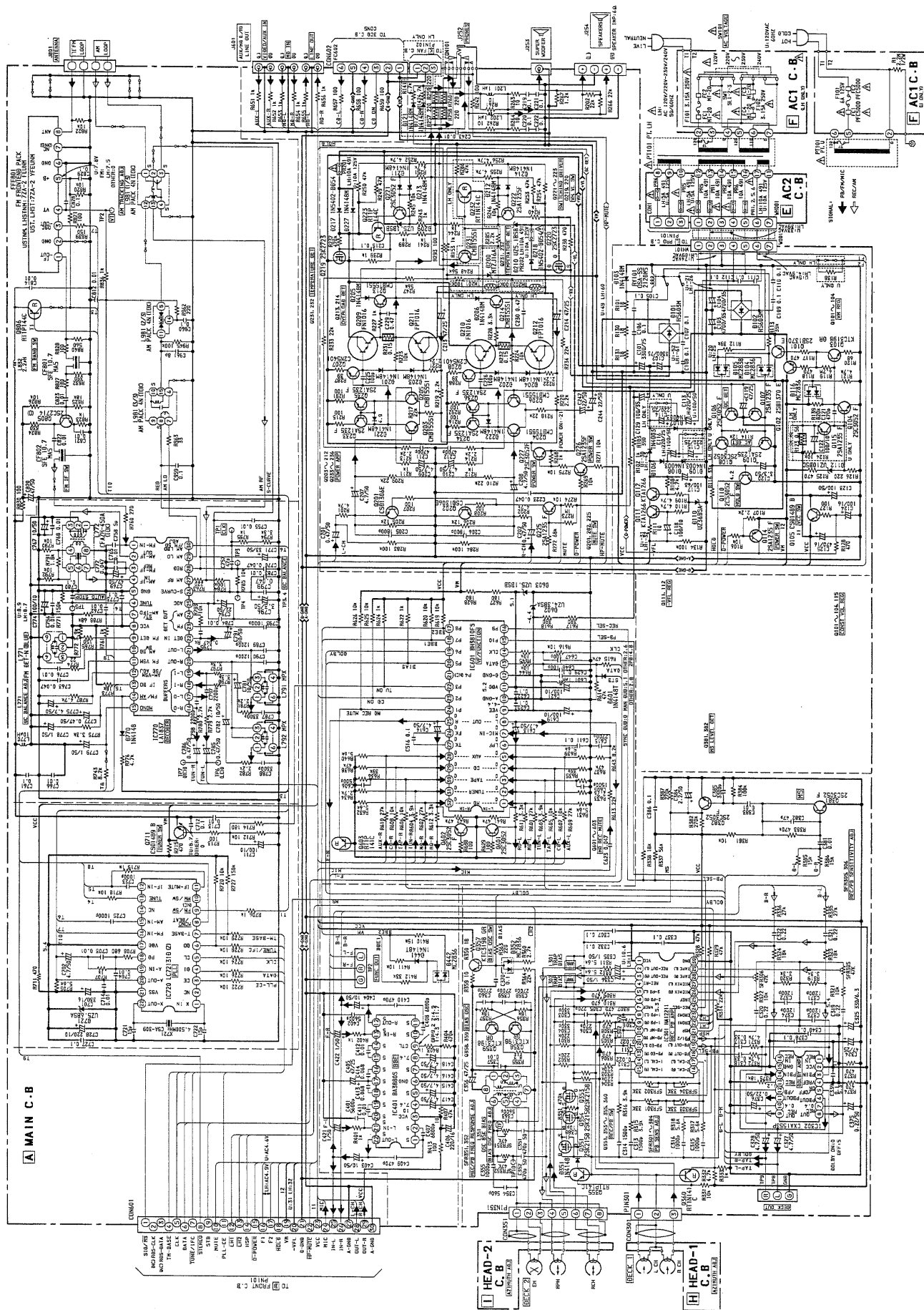
TO HEAD-1 C.B
CON501

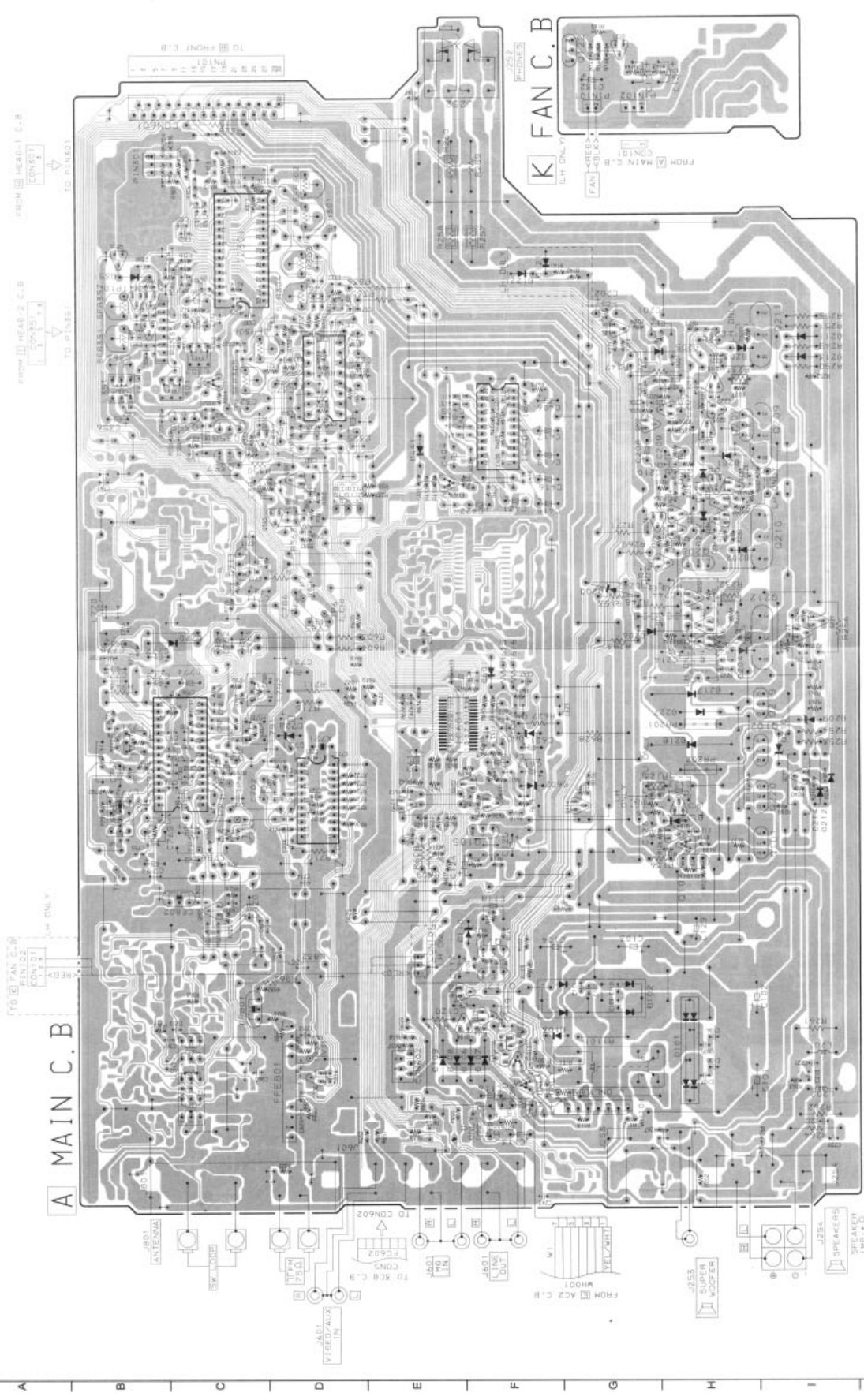
TO PIN501

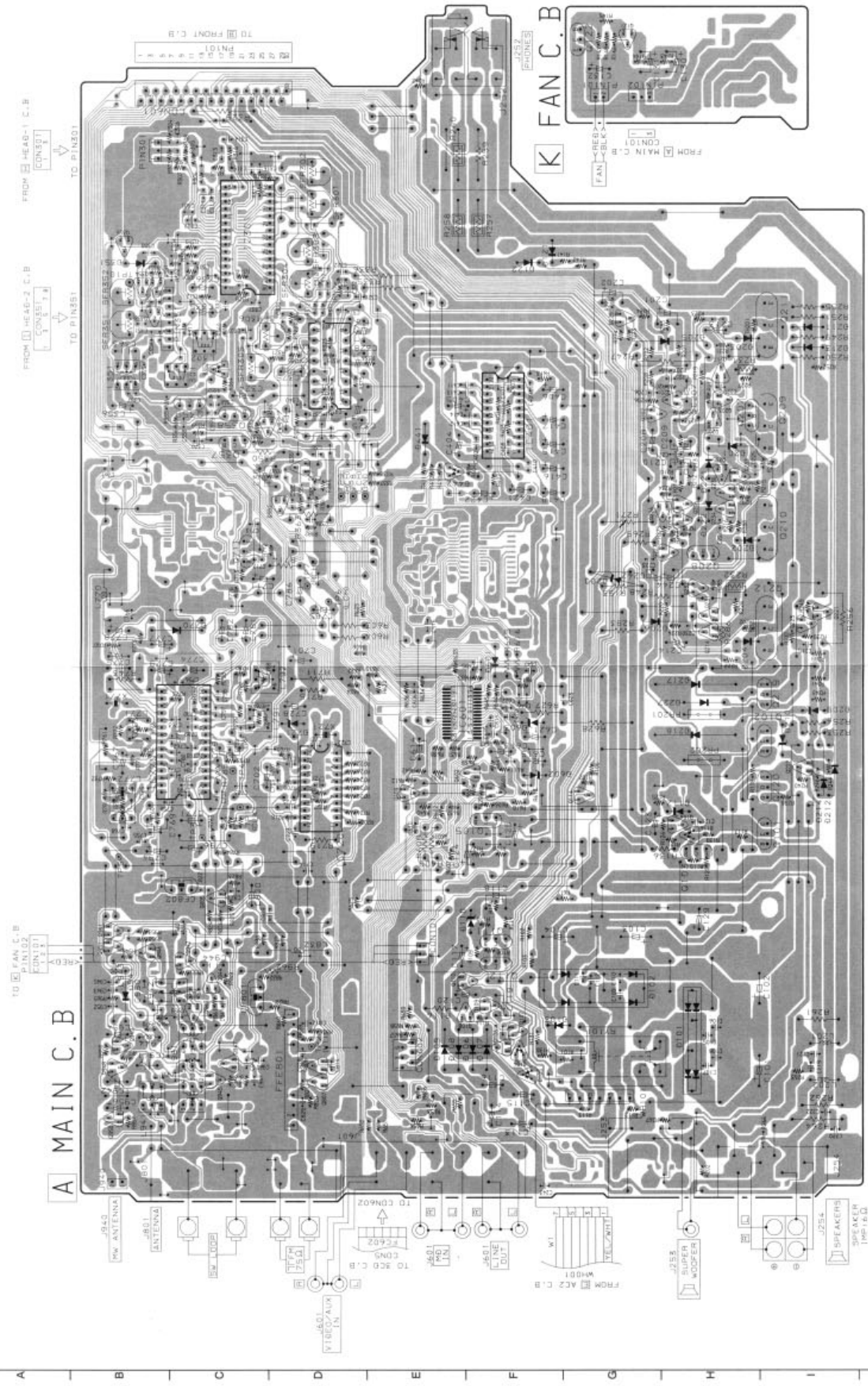


SCHEMATIC DIAGRAM - 1 (MAIN :EZ)

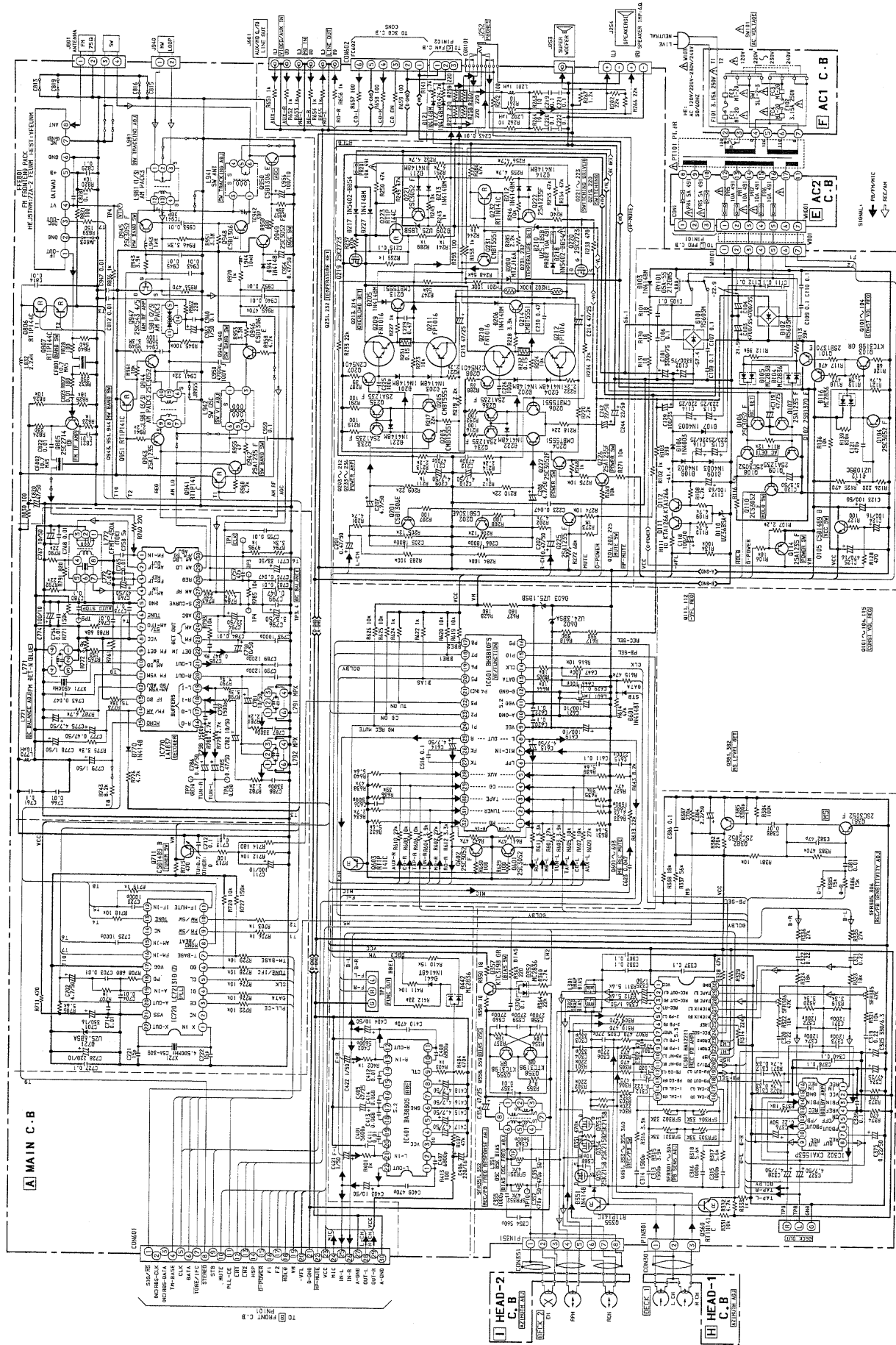


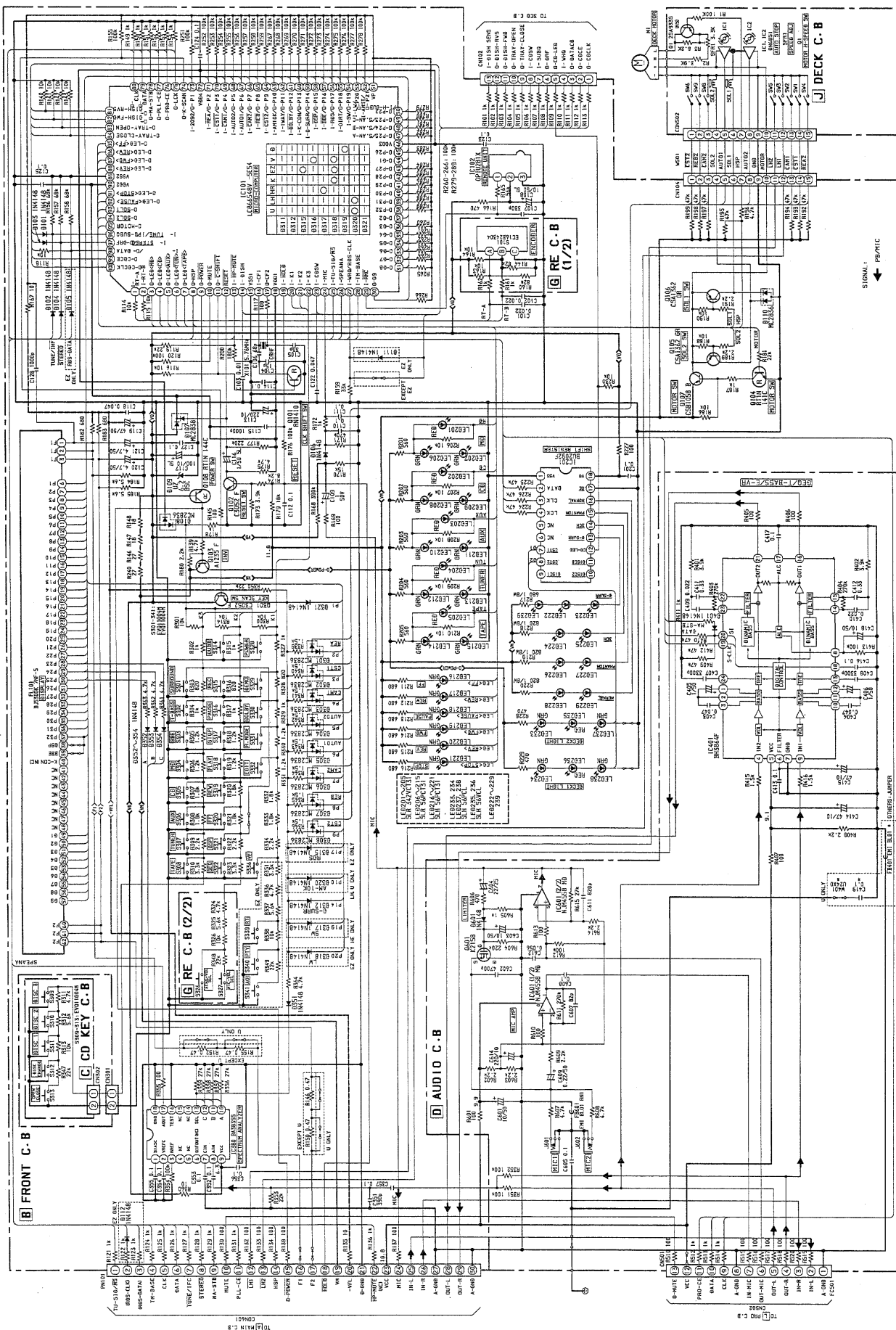






SCHEMATIC DIAGRAM - 3 (MAIN : HE)







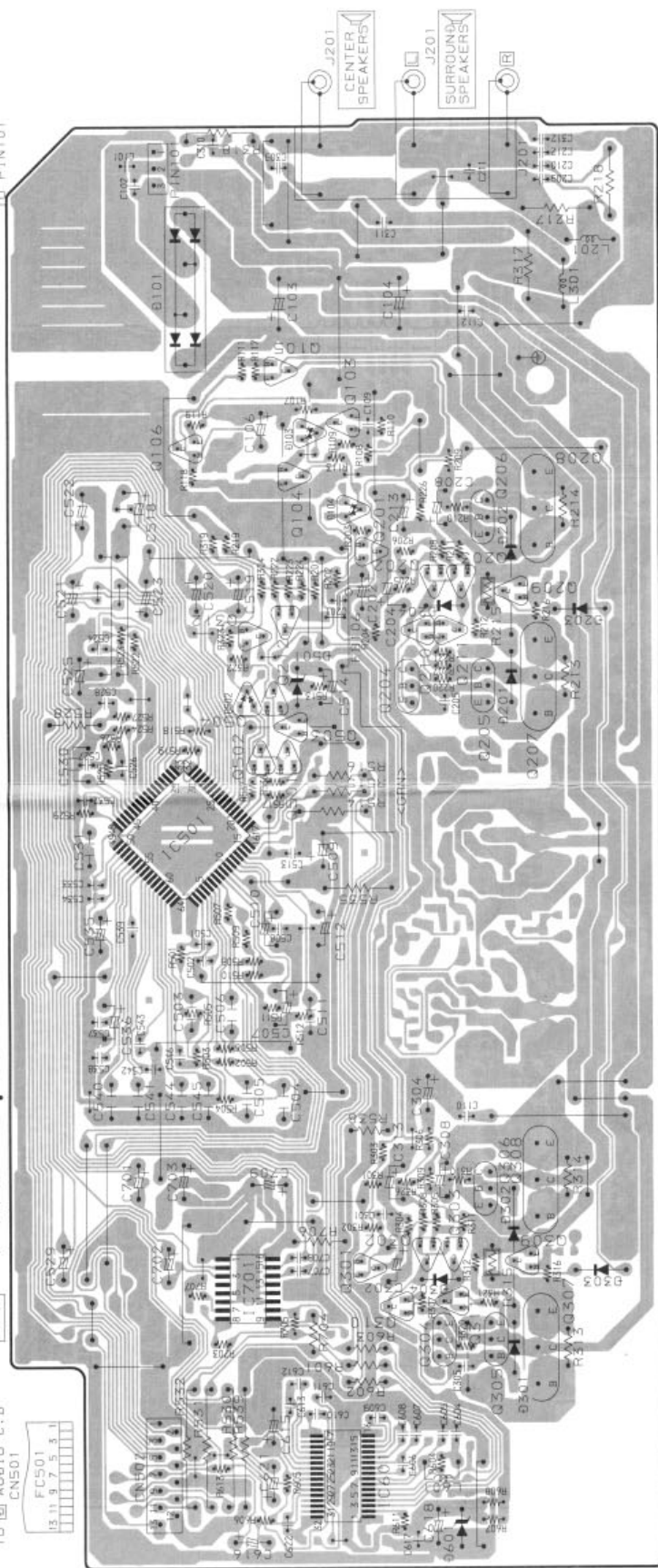


△ PIN101

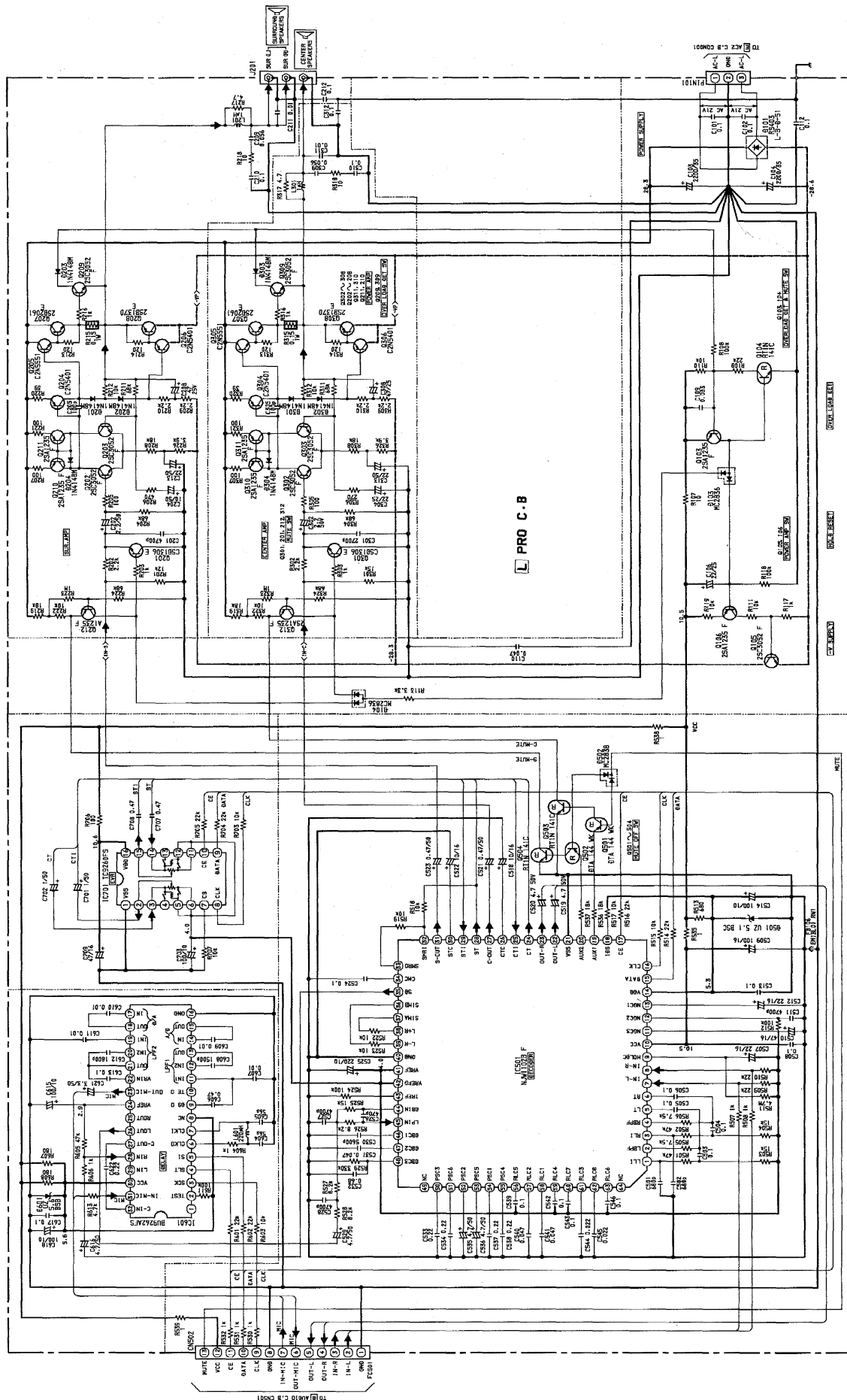
L PRO C.B

TO ☐ AUDIO C.B.

CN501

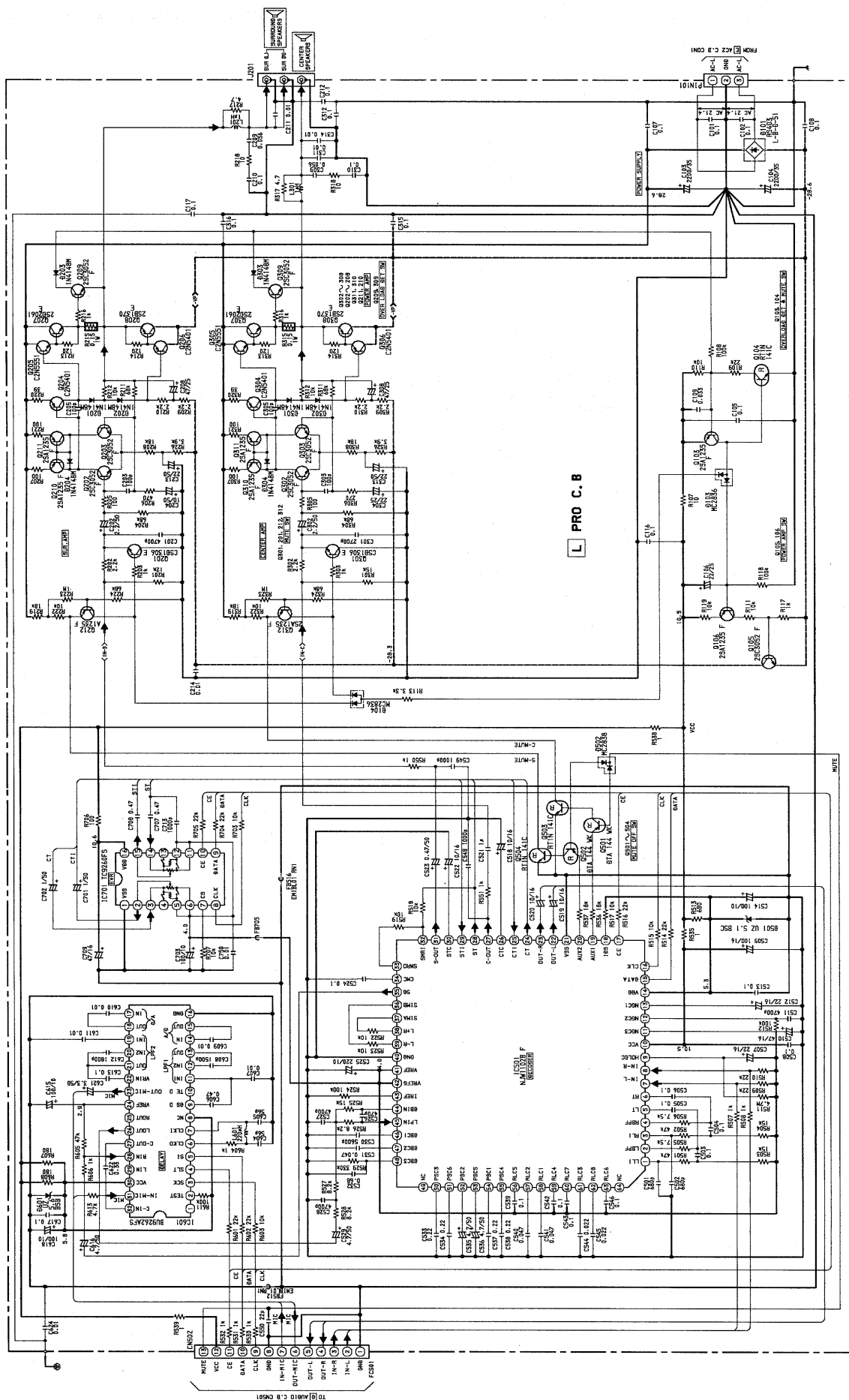


SCHEMATIC DIAGRAM - 5 (PROLOGIC : U, LH, HE)

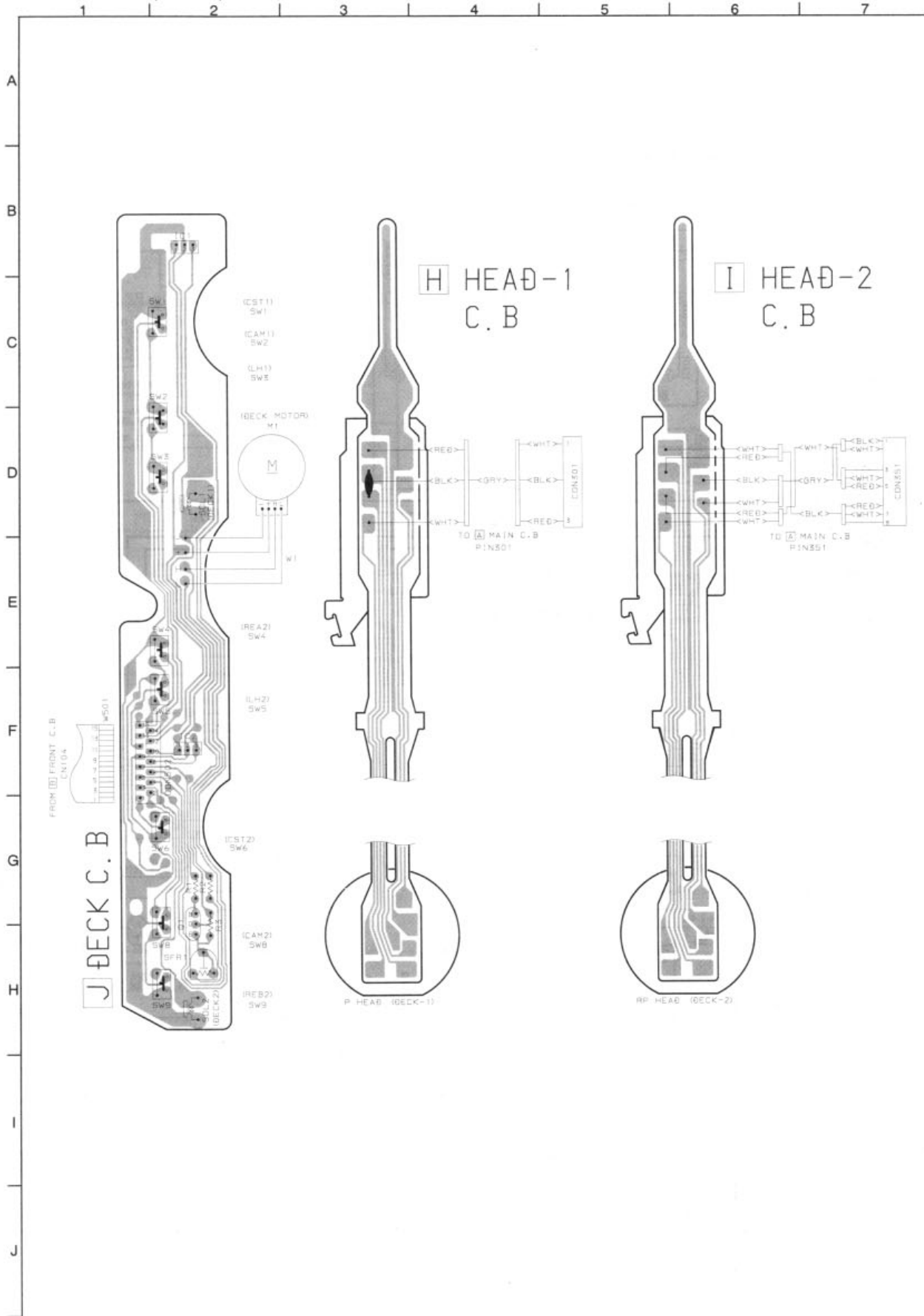




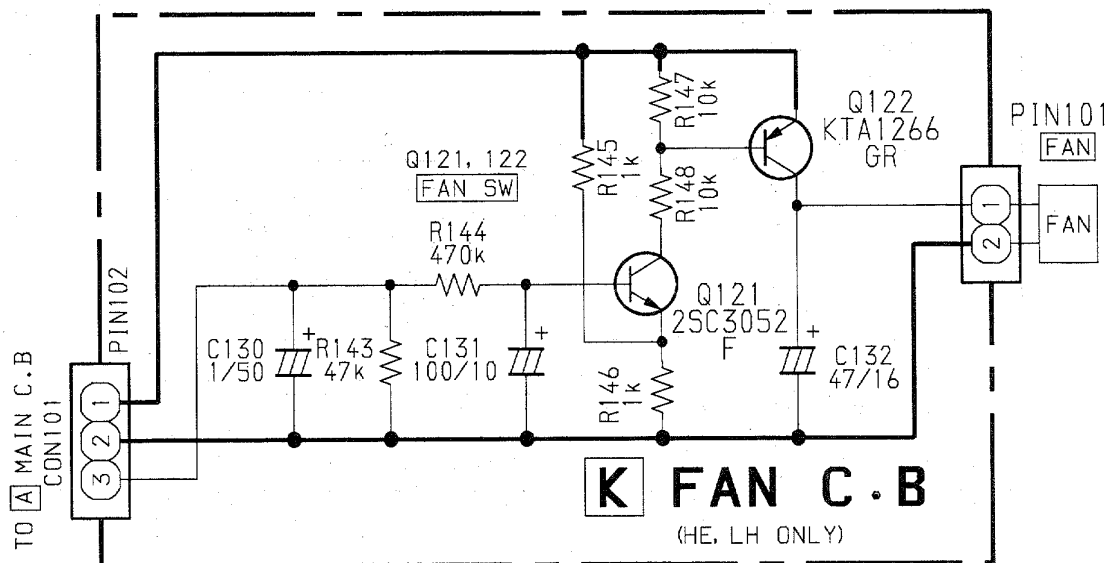
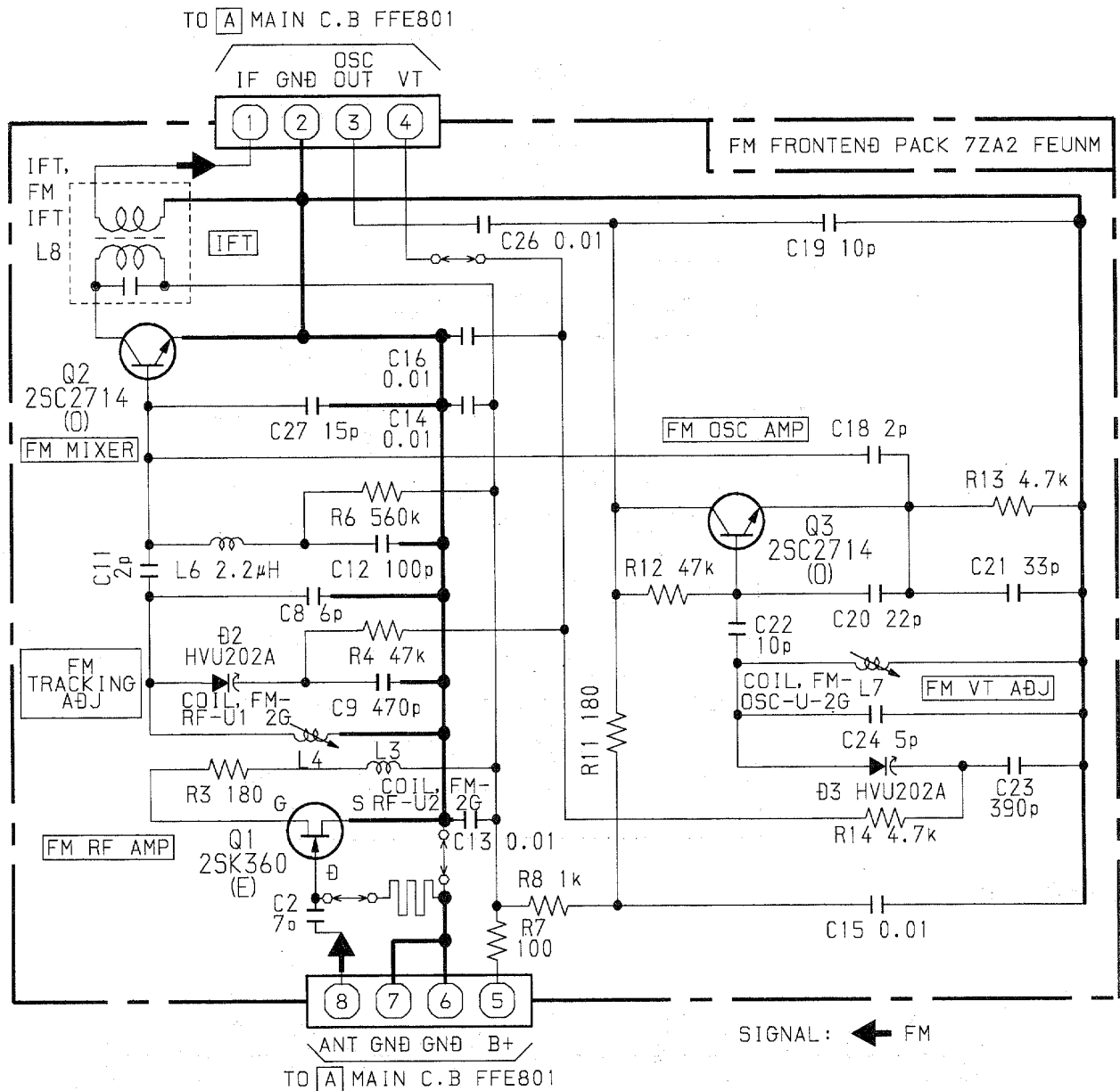
SCHEMATIC DIAGRAM - 6 (PROLOGIC : EZ)



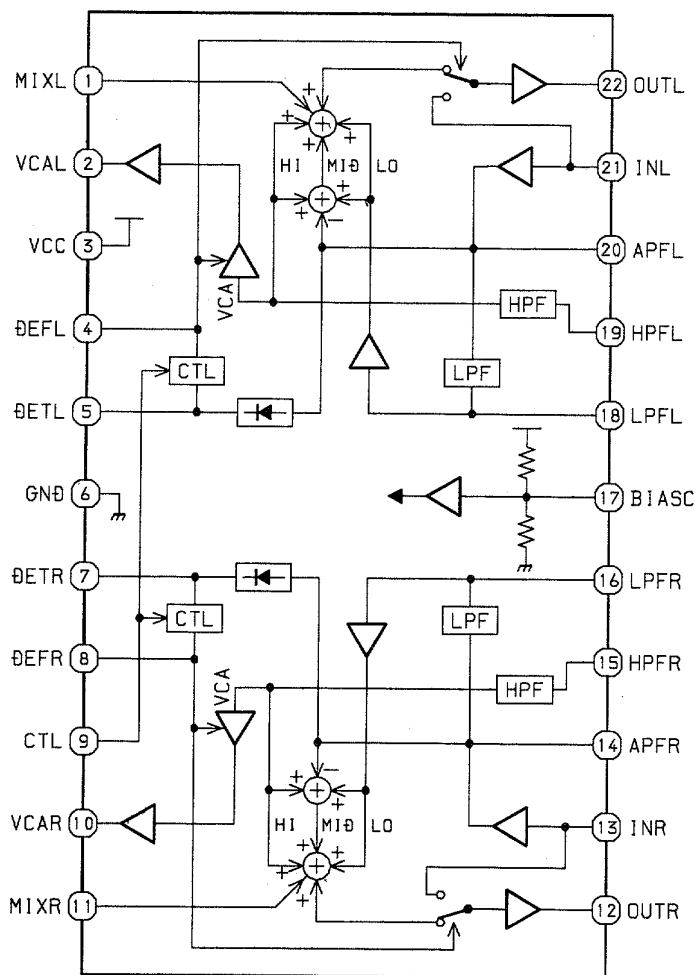
WIRING - 8 (DECK)



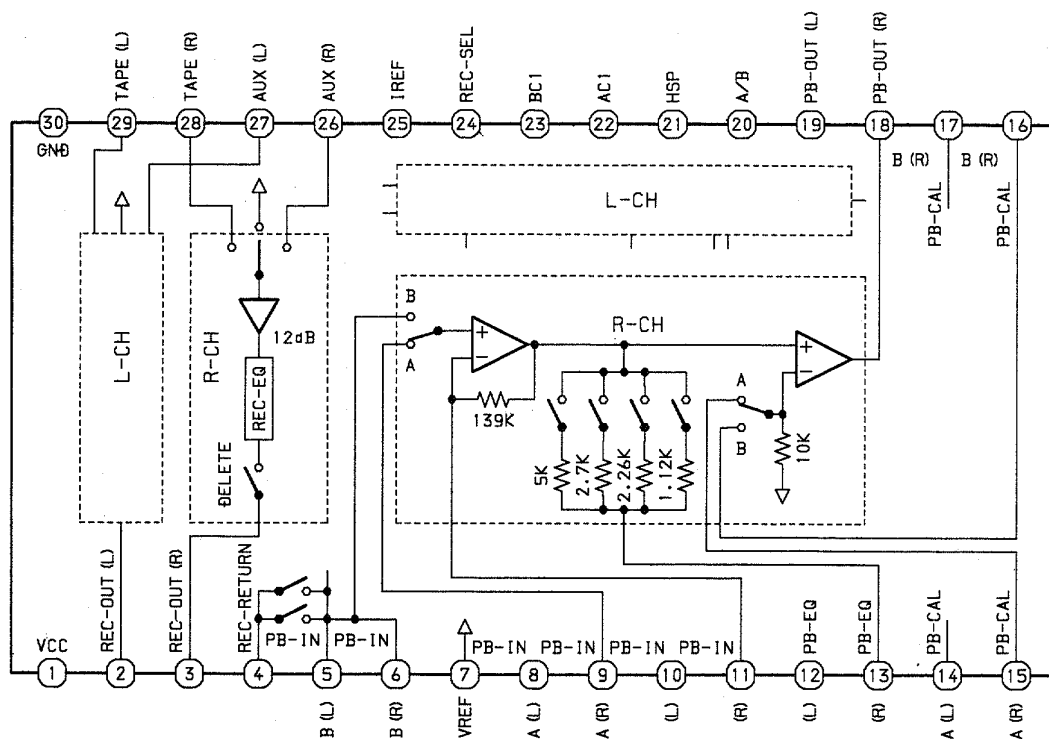
SCHEMATIC DIAGRAM - 7 (TUNER FRONT END / FAN)

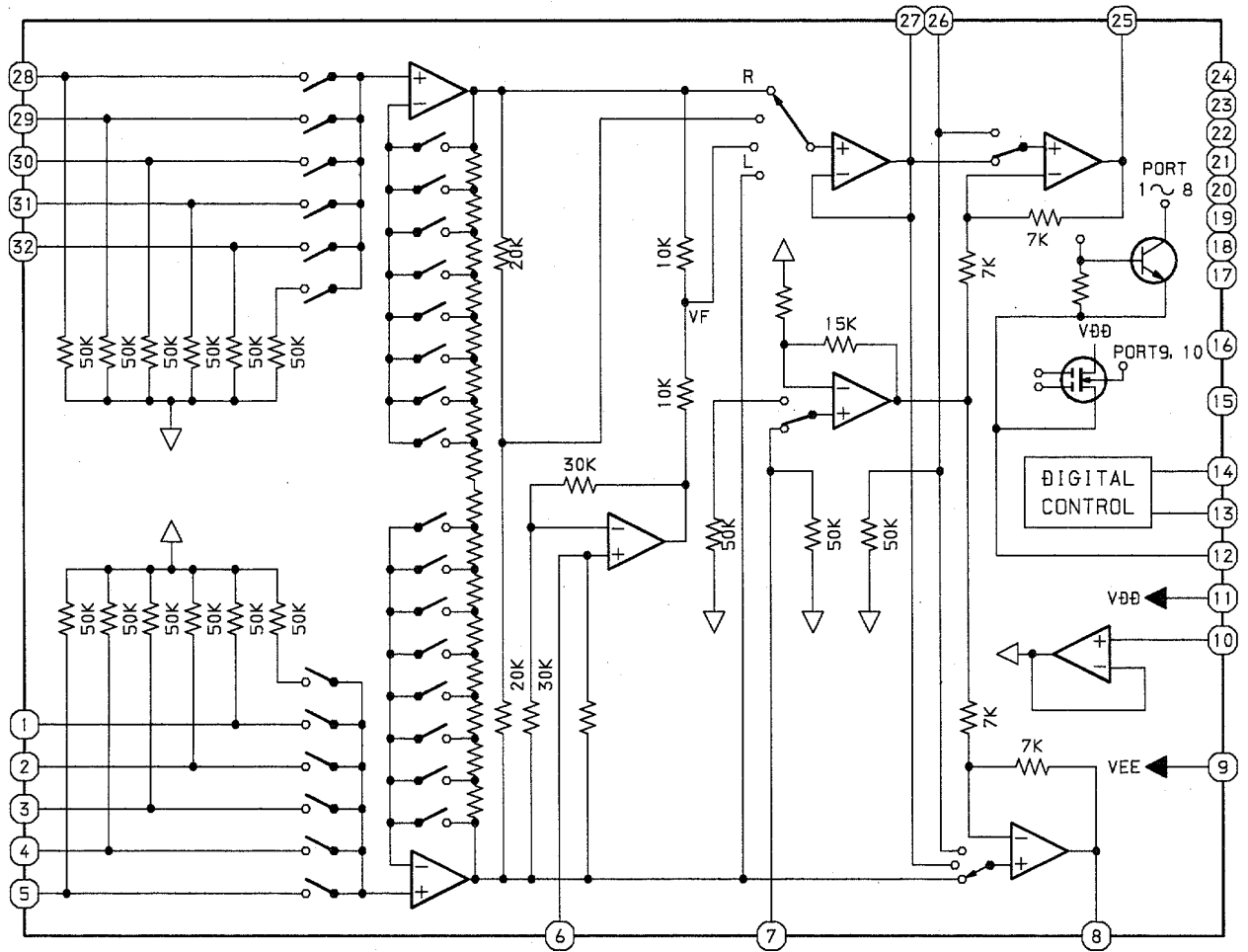


IC BLOCK DIAGRAM
IC, BA3880S

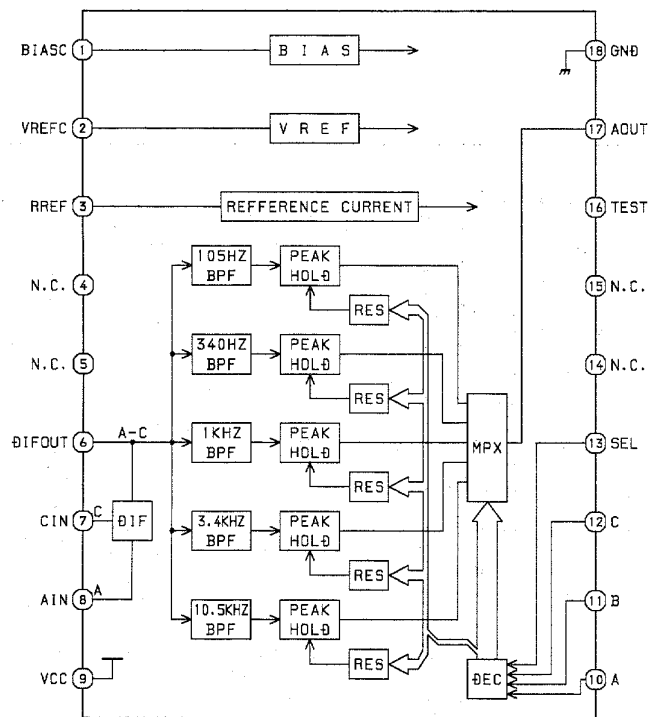


IC, HA12211NT

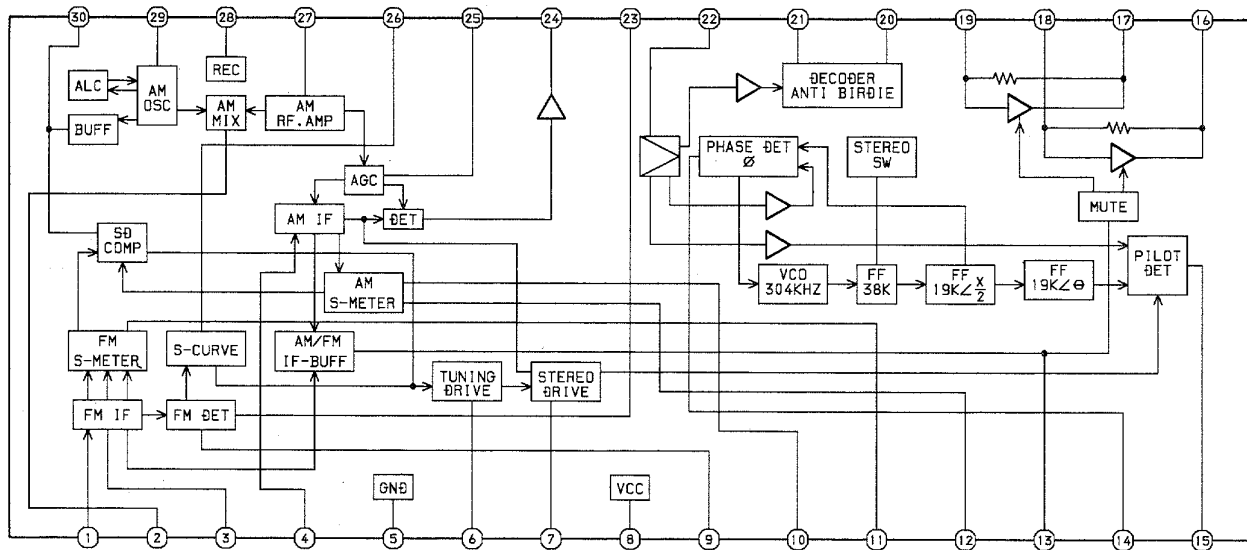




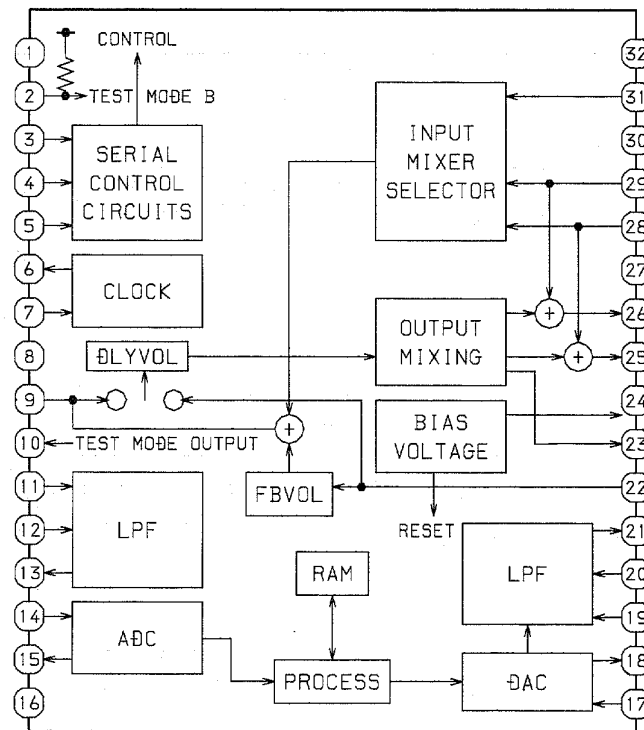
IC, LA3835S



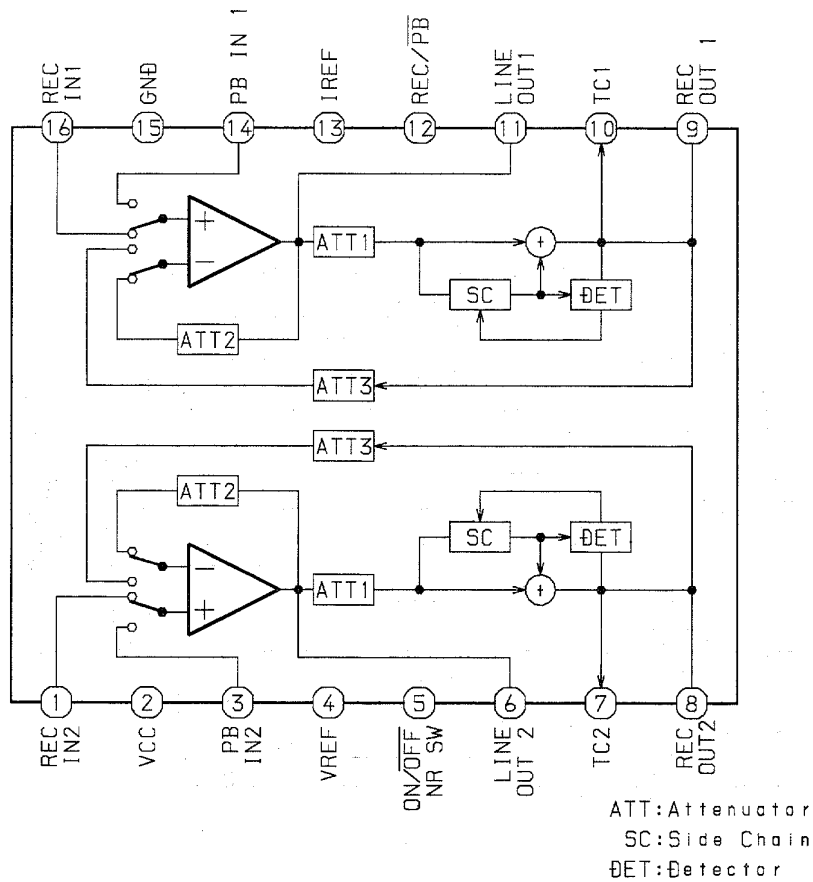
IC, LA1837



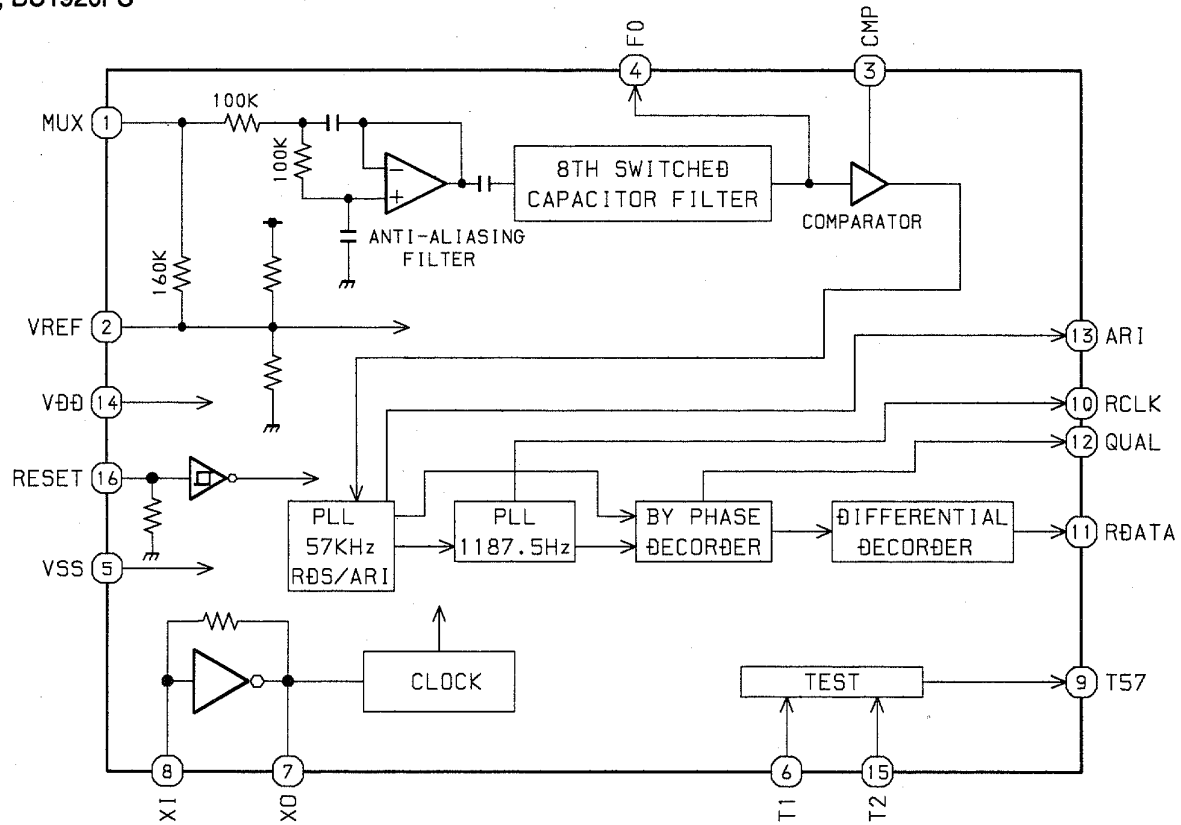
IC, BU9262 AFS



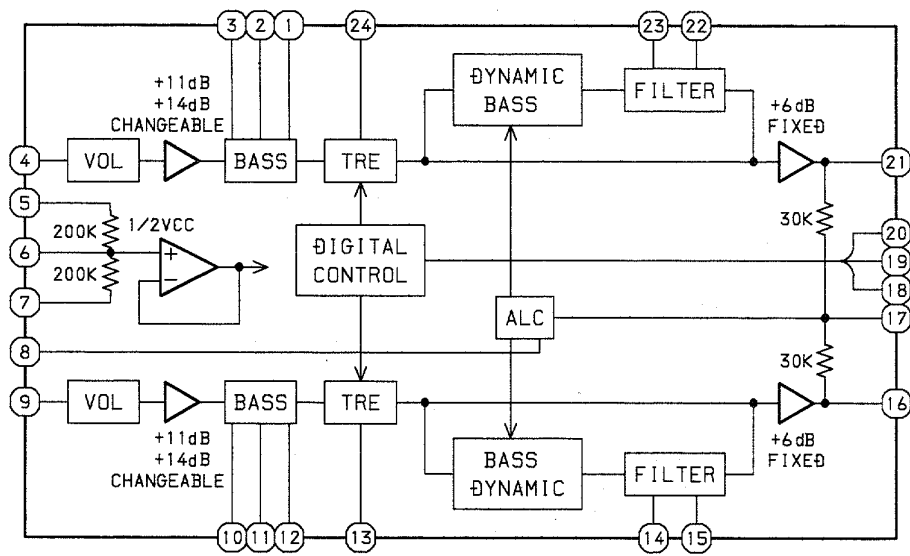
IC, CXA1553P

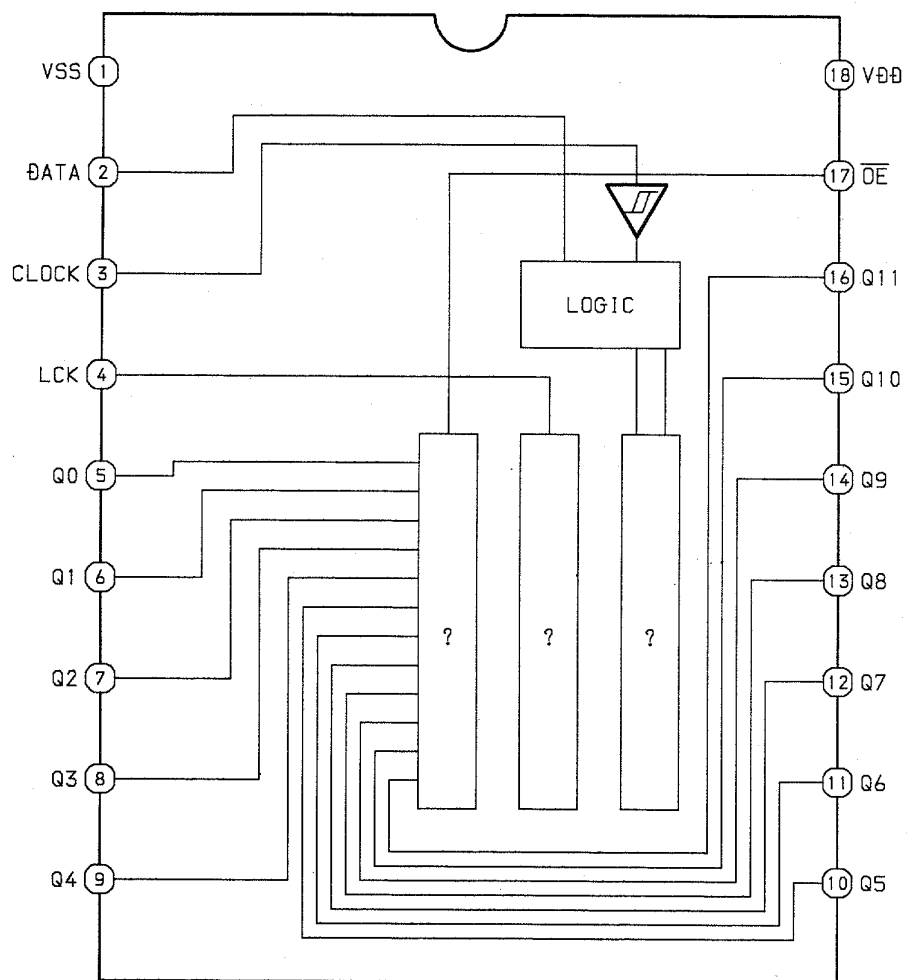


IC, BU1920FS



IC, BH3864F





IC DESCRIPTION

IC, LC866548V-5E54

Pin No.	Pin Name	I/O	Description
1	RT-A	I	Rotary encoder A input.
2	RT-B	I	Rotary encoder B input.
3	$\overline{\text{LED-MD}}$	O	"MD" LED $\overline{\text{ON/OFF}}$ output.
4	$\overline{\text{LED-CD}}$	O	"CD " LED $\overline{\text{ON/OFF}}$ output.
5	$\overline{\text{LED-AUX}}$	O	"AUX" LED $\overline{\text{ON/OFF}}$ output.
6	$\overline{\text{LED-TUNER}}$	O	"TUNER" LED $\overline{\text{ON/OFF}}$ output.
7	$\overline{\text{LED-TAPE}}$	O	"TAPE" LED $\overline{\text{ON/OFF}}$ output.
8	HSP	O	Tape deck motor high speed $\overline{\text{ON/OFF}}$ output.
9	$\overline{\text{O-POWER}}$	O	System power supply $\overline{\text{ON/OFF}}$ output.
10	$\overline{\text{O-MUTE}}$	O	System mute $\overline{\text{ON/OFF}}$ output.
11	$\overline{\text{O-CLK-SHIFT}}$	O	U-COM clock shift output.
12	$\overline{\text{RESET}}$	I	Reset input.
13	$\overline{\text{I-HP-MUTE}}$	–	Not connected.
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 detected input "1" to stop clock and main memory.
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-MIC	I	Microphone input for AUTO VF display.
25	$\overline{\text{I-TU-SIG/MS}}$	I	Tuner signal and deck music sensor signal input.
26	I-SPEANA	I	A/D input for spectrum analyzer display.
27	I-WRQ/RDS-CLK	I	CD WRQ input . TUNER RDS CLOCK input.
28	I-TM-BASE	I	REFERENCE CLOCK input for timer watch.
29	$\overline{\text{I-RMC}}$	I	System remote control signal input.
30~37	G9~G2	O	FL GRID output G2~G9.
38~43	P32~P27	O	FL SEGMENT output P27~P32.
44	G1	O	FL grid output G1.
45	P26	–	FL SEGMENT output P26.
46	VDD3	–	Power supply input.
47	SPEANA-A/P25	O	Spectrum analyzer band switching output /FL segment P25 output.
48	SPEANA-B/P24	O	Spectrum analyzer band switching output /FL segment P24 output.
49	SPEANA-C/P23	O	Spectrum analyzer band switching output /FL segment P23 output.
50	P22/H-DUBB INH	I/O	FL segment P22 output / high dubbing inhibit input to diode.
51	VP	–	Power supply input for FL display.
52	P21/AM-ST	I/O	FL segment P21 output / AM stereo input to diode.
53	P20/LW	I/O	FL segment P20 output / LW mode data input to diode.
54	P19/SW	I/O	FL segment P19 output / SW mode data input to diode.

Pin No.	Pin Name	I/O	Description
55	P18/FM 1	I/O	FL segment P18 output / FM1 (OIRT) data input to diode.
56	P17/RDS	I/O	FL segment P17 output / RDS data input to diode.
57	P16/BBE	I/O	FL segment P16 output / BBE data input to diode.
58	P15/DSP	I/O	FL segment P15 output / DSP data input to diode.
59	P14/DOLBY-SURR	I/O	FL segment P14 output / DOLBY-SURR data input to diode.
60	P13/K-CON	I/O	FL segment P13 output / K-CON data input to diode.
61	P12/DOLBY	I/O	FL segment P12 output / DOLBY data input to diode.
62	P11/WAY	I/O	FL segment P11 output / DECK/WAY MECHA data input to diode.
63	P10/AM-9K/10K	I/O	FL segment P10 output / INITIAL AM 10 kHz step data input to diode.
64	P9/CST 2	I/O	FL segment P9 output / DECK2 cassette detect switch data input.
65	P8/REB	I/O	FL segment P8 output / DECK2 side-B record OK switch data input.
66	P7/CAM 2	I/O	FL segment P7 output / DECK2 CAM switch data input.
67	P6/AUTO 1	I/O	FL segment P6 output / DECK1 AUTO stop signal input.
68	P5/AUTO 2	I/O	FL segment P5 output / DECK2 AUTO stop signal input.
69	P4/CAM 1	I/O	FL segment P4 output / DECK1 CAM switch data input.
70	P3/CST 1	I/O	FL segment P3 output / DECK1 cassette detect switch data input.
71	P2/REA	I/O	FL segment P2 output / DECK2 side A record OK switch data input.
72	VDD 4	–	Power supply input.
73	P1/2092	I/O	FL segment P1 output / SHIFT resistor IC 2092 data input to diode.
74	K-SCAN	O	Switch SCAN timing output.
75	L CK	O	Latch clock output for front shift resistor.
76	PRO-CE	O	PRO LOGIC IC chip enable output.
77	PLL-CE	O	PLL IC chip enable output.
78	MA-STB	O	Latch strobe output for MAIN PWB.
79	DATA	O	DATA output for MAIN, FORNT, PROLOGIC PWB.
80	CLK	O	CLOCK output for MAIN, FORNT, PROLOGIC PWB.
81	DISH-RVS	O	CD turntable reverse rotation output.
82	DISH-FWD	O	CD turntable forward rotation output.
83	TRAY-OPEN	O	CD TRAY OPEN data output.
84	TRAY-CLOSE	O	CD TRAY CLOSE data output.
85	$\overline{\text{LED}}$ $\blacktriangleright\blacktriangleright$	O	$\blacktriangleright\blacktriangleright$ LED $\overline{\text{ON}}$ /OFF output.
86	$\overline{\text{LED}}$ $\blacktriangleleft\blacktriangleleft$	O	$\blacktriangleleft\blacktriangleleft$ LED $\overline{\text{ON}}$ /OFF output.
87	$\overline{\text{LED}}$ $\blacktriangleright$	O	$\blacktriangleright$ LED $\overline{\text{ON}}$ /OFF output.
88	$\overline{\text{LED}}$ $\blacktriangleleft$	O	$\blacktriangleleft$ LED $\overline{\text{ON}}$ /OFF output.
89	VSS 2	–	GND.
90	VDD 2	–	Power supply input.
91	$\overline{\text{LED}}$ $\blacksquare$	O	$\blacksquare$ LED $\overline{\text{ON}}$ /OFF output.
92	$\overline{\text{LED}}$ $\blacksquare\blacksquare$	O	$\blacksquare\blacksquare$ LED $\overline{\text{ON}}$ /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/OFF output.
96	I-IFC/I-SUB Q	I	Tune IF count serial data input /CD SUB Q data input.

Pin No.	Pin Name	I/O	Description
97	I-STEREO/O-SQCLK	I/O	Tuner stereo detected input/CD SQ CLOCK output.
98	I-RDS-DATA/O-DATA	I/O	RDS data input/CD data output.
99	O-CD CE	O	CD CE output.
100	O-CD CLK	O	CD CLOCK output.

IC, LC72131

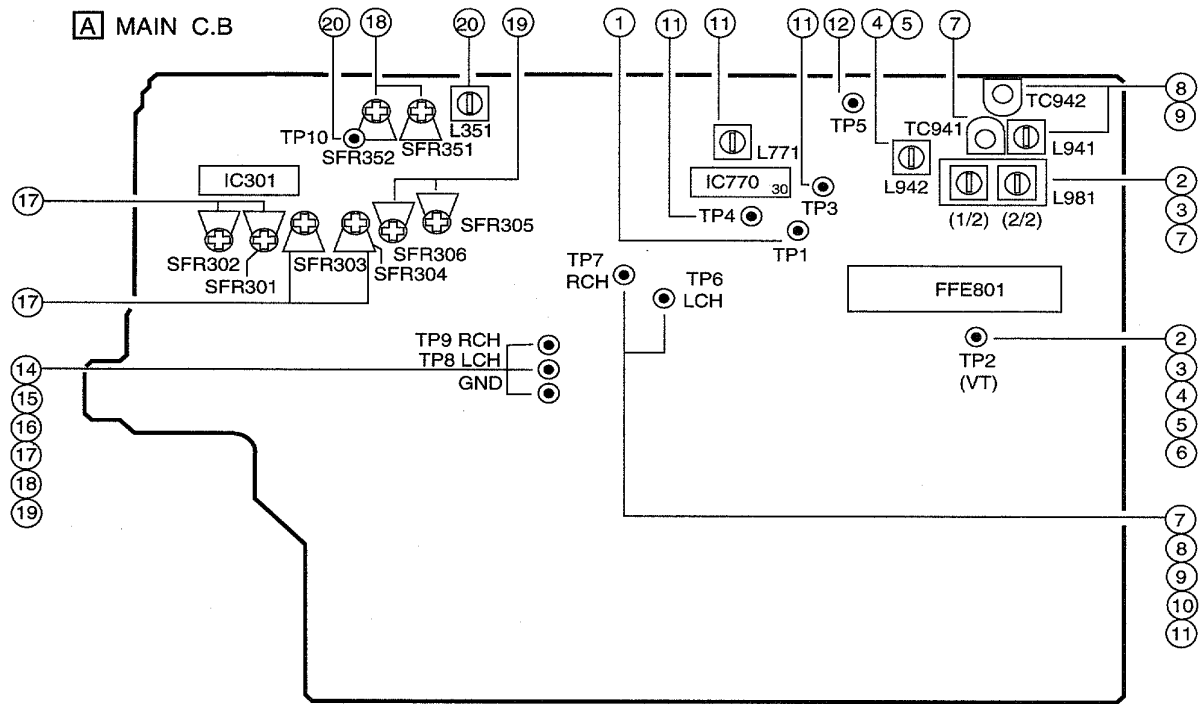
Pin No.	Pin Name	I/O	Description																								
1	XIN	I/O	A crystal oscillator (7.2MHz) is connected between these pins.																								
22	XOUT																										
2	NC	–	Not used.																								
3	CE	I	To enable the IC. Active "H".																								
4	DI	I	Digital data input from CPU (LC866548V-5E15) when relevant key is operated. Active "H".																								
5	CLK	I	To clock in the data DI.																								
6	DO	O	Digital data output to CPU (LC866548V-5E15).																								
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.																								

IC, NJW1102B

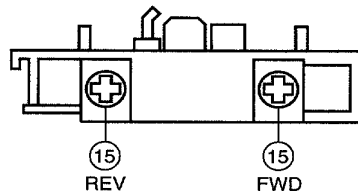
Pin No.	Pin Name	I/O	Description
1	LLI	I	L channel BPF in.
2	LBPF	O	L channel BPF feed back out.
3	RLI	I	R channel BPF in.
4	RBPF	O	R channel BPF feed back out.
5	LT	O	L channel selector #1 out.
6	RT	O	R channel selector #1 out.
7	LIN	I	L channel signal input.
8	RIN	I	R channel signal input.
9	HOLDC	I	Auto input balance control.
10	VCC	–	Power supply.
11~13	NGC 3~1	I	Noise sequencer control.
14	VDD	–	Power supply.
15	DATA	I	Serial data input.
16	SCK	I	Serial clock input.
17	REQ	I	Serial request (strobe) input.
18	IDS	I	ID select sw.
19	AUX1	O	AUX1 output (serial data change parallel output).
20	AUX2	O	AUX2 output (serial data change parallel output).
21	VSS	–	GND.
22	LOUT	O	L channel signal output.
23	ROUT	O	R channel signal output.
24	CT	O	Center channel output (before trimmer).
25	CTI	I	Center channel trimmer input.
26	CTC	O	Center channel trimmer coupling capacitor out.
27	COUT	O	Center channel trimmer output.
28	ST	O	Surround channel output (before trimmer).
29	STI	I	Surround channel trimmer input.
30	STC	O	Surround channel trimmer coupling capacitor out.
31	SOUT	O	Surround channel trimmer output.
32	SMRI	I	Surround channel amp (front L,R mix) input.
33	SMRO	O	Surround channel amp (front L,R mix) output.
34	CMC	O	Center mode control.
35	SD	O	Selector #2 output (to surround channel delay).
36	SIMB	I	Selector #2 input B (L-R).
37	SIMA	I	Selector #2 input A (L+R).
38	L+R	O	L+R channel output.
39	L-R	O	L-R channel output.
40	GND	–	Ground.
41	VREF	I	VREF in.
42	VREFG	O	Vref out.
43	IREF	I	Iref in.

44	DBIN	I	To modify B NR decoder input.
45	LPIN	I	From surround channel delay input.
46~48	DBC 1~3	I	Dolby B NR control 1~3.
49	NC	—	Not used.
50~55	PSC 1~6	I	Dual time constant and threshold switches control.
56~63	RLC 1~8	I	Full wave rectifier and log difference amp control.
64	NC	—	Not used.

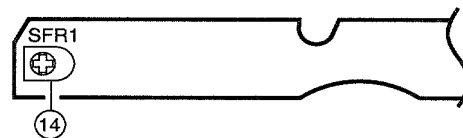
ADJUSTMENT - 1 <TUNER / DECK>



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



J DECK C.B.



< TUNER SECTION >

1. Clock Frequency Check
Settings : • Test point : TP1 (CLK IC770 pin30)
Method : Set to MW 1710kHz (HE,LH,U), 1602kHz (EZ), and check that the test point is 2160kHz $\pm$ 45Hz (HE,LH,U), 2052 $\pm$ 0.045kHz (EZ).
2. MW VT Adjustment
Settings : • Test point : TP2 (VT)
• Adjustment location : L981 (1/2)
Method : Set to MW 1710kHz (HE), 531kHz (EZ) and adjust L981 (1/2) so that the test point is 8.5V $\pm$ 0.05V (HE), 1.5V $\pm$ 0.05V (EZ).
3. MW VT Check
Settings : • Test point : TP2 (VT)
Method : Set to MW 530kHz (HE), 1710kHz (U,LH), 1602kHz (EZ) and check that the test point is more than 0.3 (HE), 6.0V $\pm$ 1.0V (U,LH), less than 8.5 (EZ).
4. SW VT Adjustment <HE>
Settings : • Test point : TP2 (VT)
• Adjustment location : L942
Method : Set to SW 17.9MHz and adjust L942 so that the test point is 7.0V $\pm$ 0.05V.
5. LW VT Adjustment <EZ>
Settings : • Test point : TP2 (VT)
• Adjustment location : L942
Method : Set to LW 144kHz and adjust L942 so that the test point is 1.3V $\pm$ 0.05V.
6. FM VT Check
Settings : • Test point : TP2 (VT)
Method : Set to FM 87.5MHz, 108.0MHz and check that the test point is more than 1.5V (87.5MHz) and less than 8.5V (108.0MHz).
7. MW Tracking Adjustment <HE>
Settings : • Test point : TP6,TP7
• Adjustment location :
L981 (2/2) 600kHz
TC941 1400kHz
Method : Set up TC941 to center before adjustment, the level at 600kHz is adjust to maximum by L981 (2/2). Then the level at 1400kHz is adjust to maximum by TC941.

8. SW Tracking Adjustment <HE>

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 adjust to maximum by L941. Then the level at 17.9MHz is adjust to maximum by TC942.

9. LW Tracking Adjustment <EZ>

Settings : • Test point : TP6, TP7

• Adjustment location :

L941 144kHz

TC942 290kHz

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

10. FM Tracking Check

Settings : • Test point : TP6, TP7

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

11. 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%.

12. Auto Stop Level Check

Settings : • Test point : TP5

• Input level : Variable

Method : Set to FM 98.0MHz and check voltage low (about 0.1V). After that voltage high (about 7.0V) by 2dB down and the level is $25 \pm 10\text{dB}$.

13. Auto Stop Level Check

SW<HE>

• Input level : Variable

Method : Check auto stop at SW 12MHz and the level is less than 60dB.

MW

• Input level : Variable

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

FM

• Input level : Variable

Method : Check auto stop at FM 98.0MHz and the level is $25\text{dB} \pm 10\text{dB}$.

< DECK SECTION >

14. 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 3000Hz $\pm 5\text{Hz}$.

15. Head Azimuth Adjustment

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.

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

Settings : • Test tape : TTA-300

• Test point : TP8, TP9

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

17. 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.

18. 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 17mV. 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.

19. 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 adjust SFRs so that the output becomes $17\text{mV} \pm 0.5\text{dB}$.

20. 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 : (THD 3%)	4dB ± 6dB (U,LH,HE) [at 87.5 / 98.0 / 108.0MHz (U,LH,HE)] 6dB ± 6dB (EZ) [at 87.5 / 98.0 / 108.0MHz (EZ)]
S/N 50dB Quieting sensitivity :	30dB ± 6dB (U,LH,HE) [at 87.5 / 98.0 / 108.0MHz (U,LH,HE)] 34dB ± 6dB (EZ) [at 87.5 / 98.0 / 108.0MHz (EZ)]
Signal to noise ratio :	Mono : More than 65dB (U,LH,HE) More than 60dB (EZ) Stereo : More than 64dB (U,LH,HE) More than 57dB (EZ) [at 98.0MHz]
Distortion :	Mono : Less than 1.3% Stereo : Less than 2.0% [at 98.0MHz]
Auto stop level :	25dB ± 10dB [at 98.0MHz]
Stereo separation :	U,LH,HE : More than 25dB [at 98.0MHz] EZ : More than 22dB [at 98.0MHz]
Intermediate frequency :	10.7MHz

<MW SECTION>

Sensitivity : (S/N 20 dB)	50 ~ 60dB [at 600kHz(U,LH)] [at 603kHz(HE,EZ)] 48 ~ 58dB [at 1000kHz(U,LH)] [at 999kHz(HE,EZ)] 48 ~ 58dB [at 1400kHz(U,LH)] [at 1404kHz(HE,EZ)]
Signal to noise ratio :	More than 36dB [at 1000kHz(U,LH)] [at 999kHz(HE,EZ)]
Distortion :	Less than 1.5% [at 1000kHz(U,LH)] [at 999kHz(HE,EZ)]
Auto stop level :	50dB +10/-15dB [at 1000kHz(U,LH)] [at 999kHz(HE,EZ)]
Intermediate frequency :	450kHz

<LW SECTION> (EZ)

Sensitivity : (S/N 20 dB)	61 ~ 71dB [at 144kHz] 58 ~ 68dB [at 198kHz] 58 ~ 68dB [at 290kHz]
Signal to noise ratio :	More than 36dB [at 198kHz]
Distortion :	Less than 1.2% [at 198kHz]
Auto stop level :	66dB +10/-15dB [at 198kHz]
Intermediate frequency :	450kHz

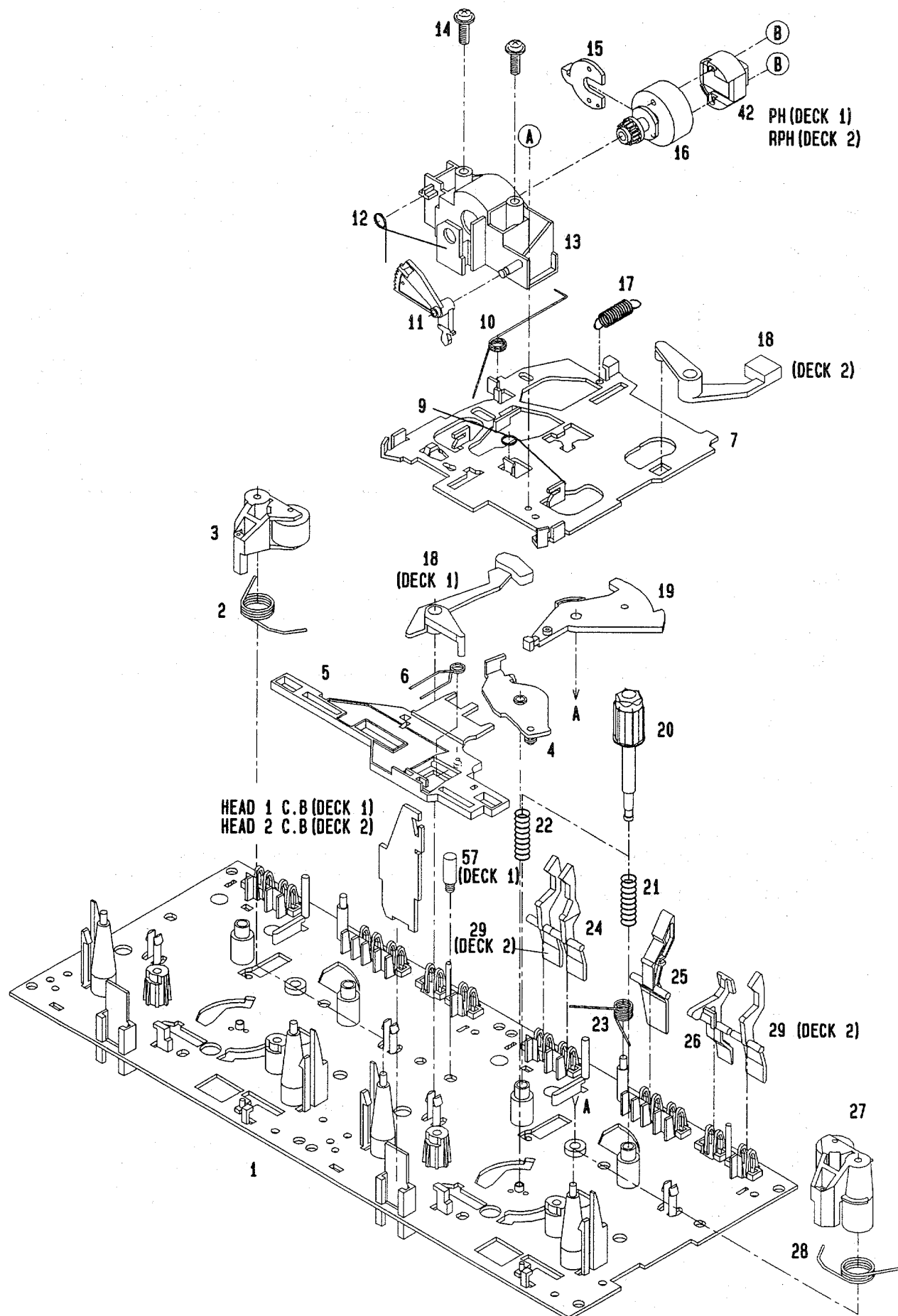
<SW SECTION> (HE)

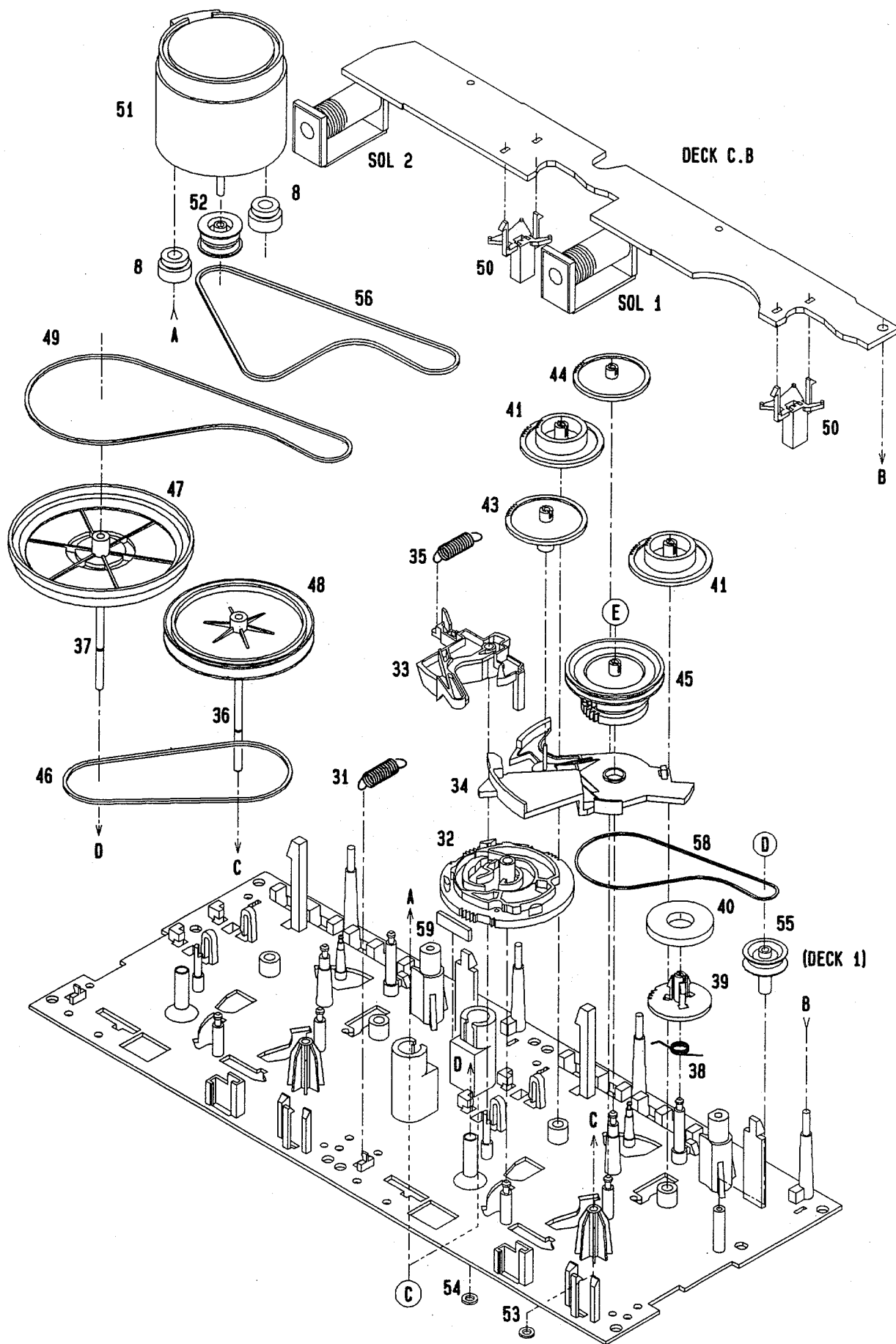
Sensitivity : (S/N 20 dB)	38 ± 5dB [at 5.9MHz] 33 ± 5dB [at 12.0 MHz] 30 ± 5dB [at 17.9MHz]
Signal to noise ratio :	More than 36dB [at 12.0MHz]
Distortion :	Less than 2.0% [at 12.0MHz]
Intermediate frequency :	450kHz

<DECK SECTION>

Tape speed :	3000Hz ± 45Hz
Wow & flutter :	Less than 0.15% (W.R.M.S)
Take-up torque :	30 ~ 55g-cm (FWD, REV)
F.F & REW torque :	75 ~ 180g-cm
Back tension :	2 ~ 7g-cm (FWD, REV)
PB output level :	300mV ± 1dB (SP OUT 2V)
REC/PB output level :	170mV ± 1dB (SP OUT 2V)
Distortion (REC/PB) :	Less than 2.0% (NORM, CrO ₂)
Noise level (REC/PB) :	Less than 1.8mV (NORM, SP OUT 2V, DOLBY OFF) Less than 1.1mV (CrO ₂ , SP OUT 2V, DOLBY B,C ON)
Crosstalk :	More than 60dB (1kHz, 0VU)
Channel separation :	More than 30dB (1kHz, 0VU)
Erasing ratio :	More than 30dB (at 125Hz)
Test tape :	TTA-602 (NORMAL) TTA-615 (CrO ₂)

TAPE MECHANISM EXPLODED VIEW 1/1

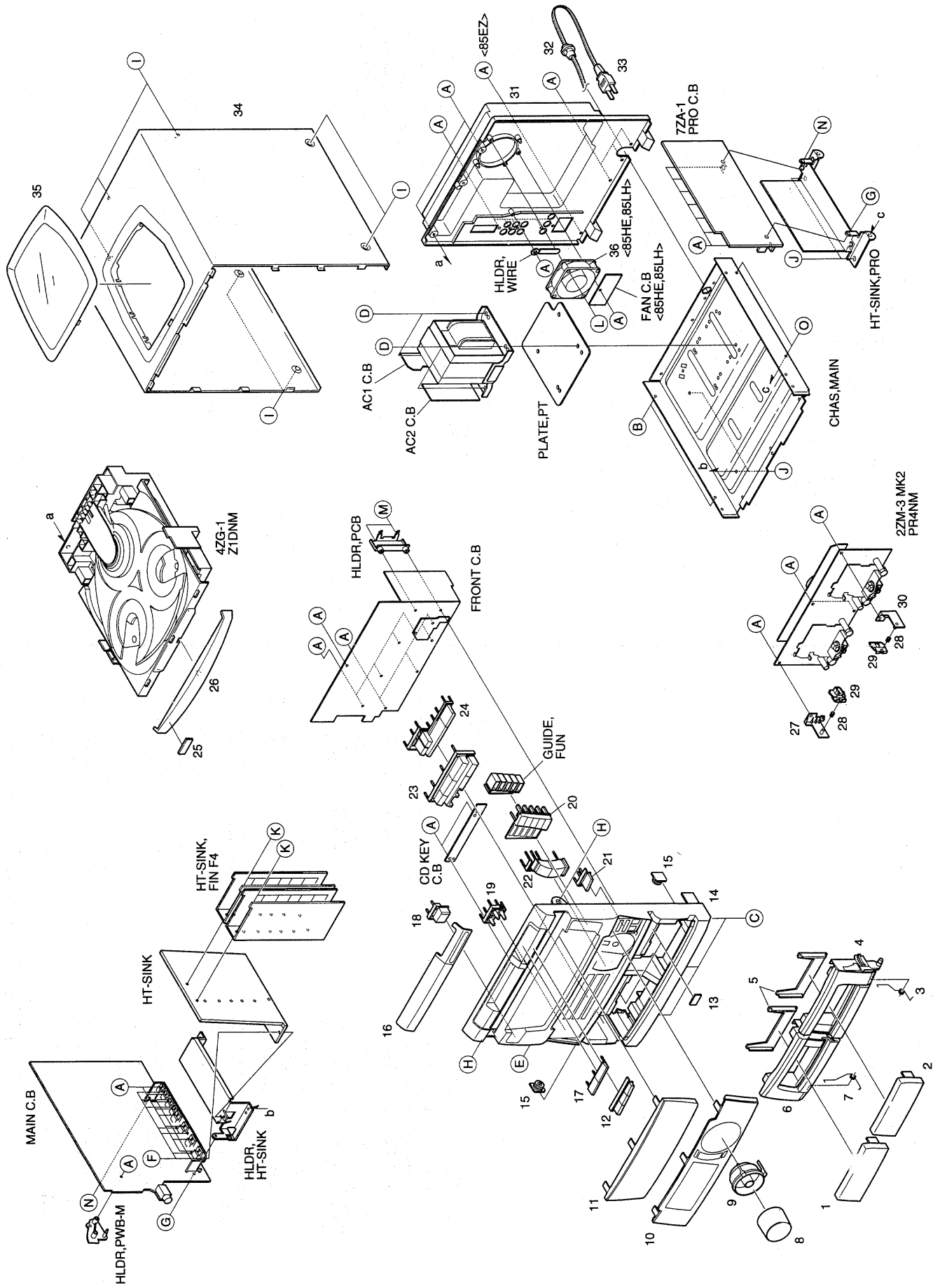




TAPE MECHANISM PARTS LIST 1 / 1

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		SPR-T, 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				

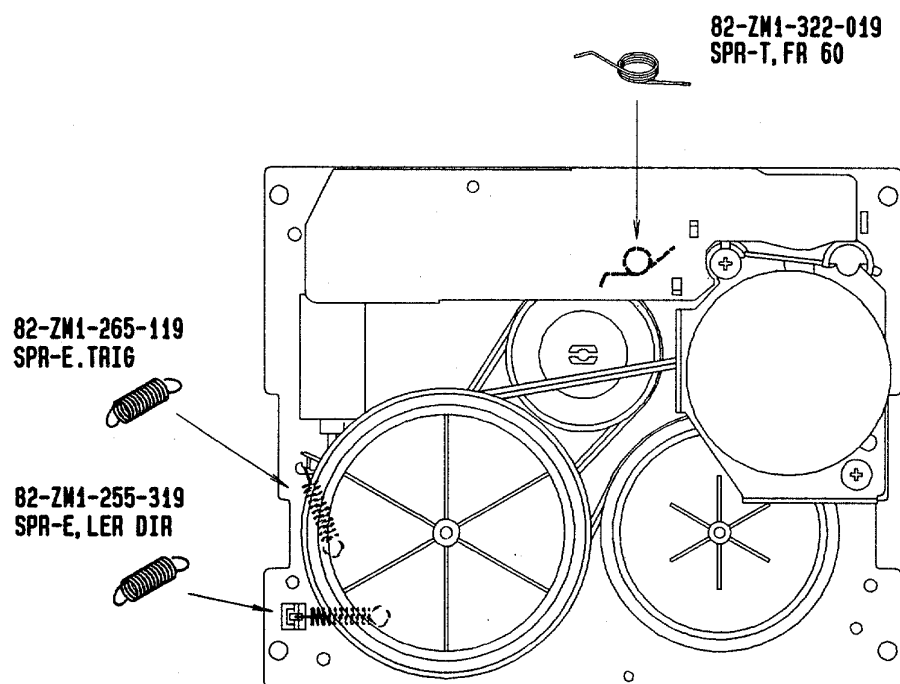
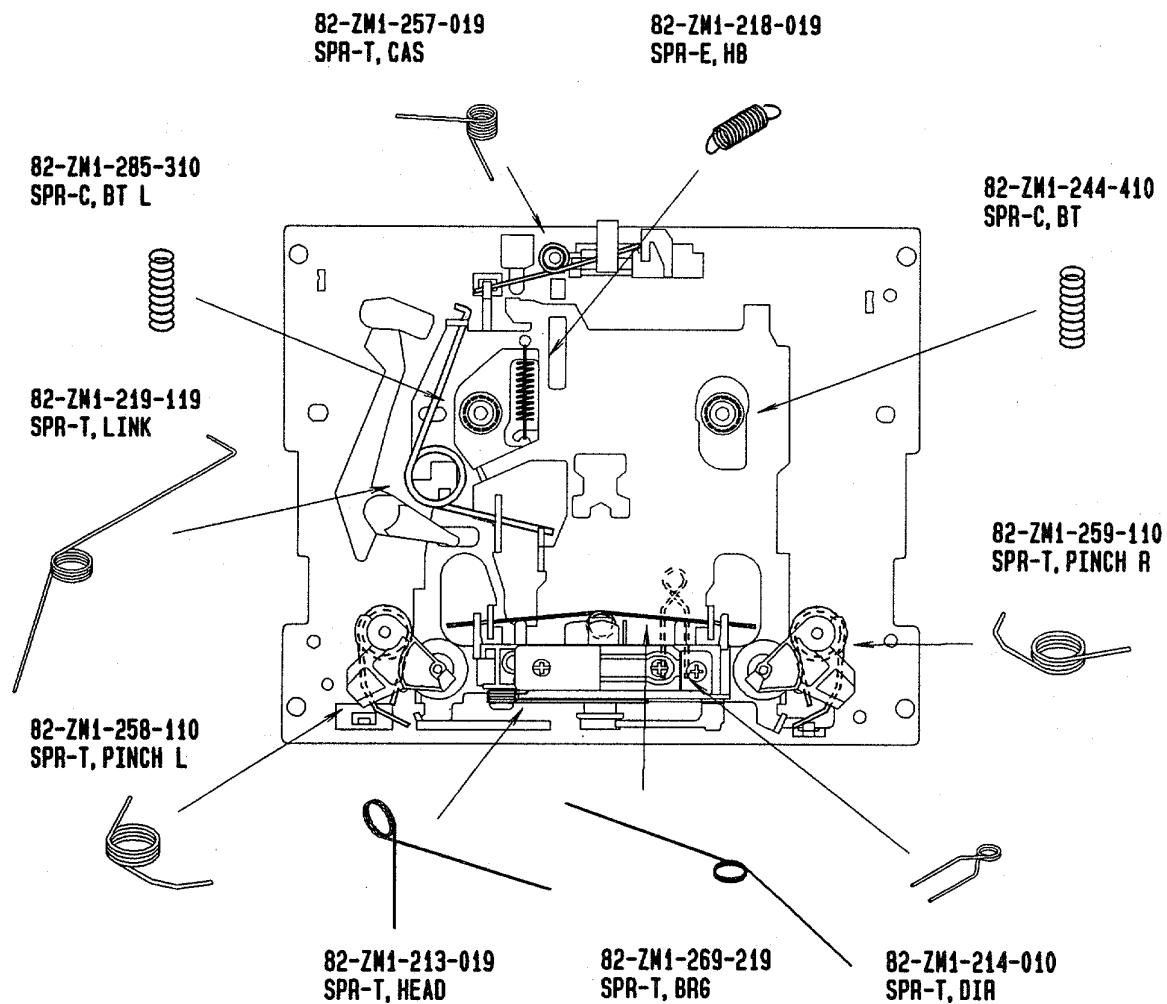


MECHANICAL PARTS LIST 1 / 1

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-NF5-010-010		WINDOW, CASS 1	31	87-NFS-017-110		CABI, REAR HEST<85HE>
2	87-NF5-011-010		WINDOW, CASS 2	31	87-NFS-018-110		CABI, REAR LHST<85LH>
3	82-NF5-219-010		SPR-T, EJECT 2 (SIN)	31	87-NFS-016-210		CABI, REAR UST<70U>
4	87-NF5-004-010		BOX, CASS 2H	32	87-085-185-010		BUSHING, AC CORD (E)<EXCEPT 70U>
5	86-NF6-061-010		REFLECTOR, CASS	32	87-085-189-010		BUSHING, CORD (U)<70U>
6	87-NF5-003-010		BOX, CASS 1H	33	87-050-053-010		AC CORD ASSY, U-2<70U>
7	82-NF5-218-010		SPR-T, EJECT 1 (SIN)	33	87-050-079-010		AC-CORD ASSY, E<EXCEPT 70U>
8	87-NF5-023-010		KNOB, RTRY VOL	34	86-NH6-029-110		CABI, STEEL H-J TS<EXCEPT 85EZ>
9	87-NF5-007-010		RING, VOL	34	86-NFT-005-110		CABI, STEEL TS<85EZ>
10	87-NF5-002-010		PANEL, FR H	35	86-NF6-007-010		WINDOW, TOP<EXCEPT 70U>
11	87-NFS-009-010		WINDOW, DISP E<85EZ>	35	86-NF6-101-010		WINDOW, TOP UL<70U>
11	87-NFS-007-010		WINDOW, DISP H<EXCEPT 85EZ>	36	87-A90-463-010		FAN, 2408NL<85HE, 85LH>
12	87-NF5-016-010		KEY, DISC	A	87-067-703-010		TAPPING SCREW, BVT2+3-10
13	81-532-080-010		LABEL, CASS. COMPT	B	87-591-094-410		TAPPING SCREW, QIT+3-6
14	87-NFS-003-010		CABI, FR EZ<85EZ>	C	87-067-688-010		BVTT+3-6
14	87-NFS-001-010		CABI, FR H<85HE, 85LH>	D	87-078-191-010		S-SCREW, IT+4-10
14	87-NFS-002-010		CABI, FR U<70U>	E	87-723-096-410		QT2+3-10W/O SLOT BL
15	87-063-165-010		OIL-DMPR 150	F	87-067-758-010		BVT2+3-12 W/O SLOT
16	87-NF5-008-010		WINDOW, CD	G	87-067-633-010		TAPPING SCREW, BVT2+3-8
17	87-NF5-015-010		KEY, OPEN	H	87-721-097-410		QT2+3-12 GLD
18	87-NF5-017-010		KEY, POWER	I	87-067-641-010		UTT2+3-8 (W/O SLOT) BL
19	87-NF5-019-010		KEY, DEMO	J	87-067-584-010		TAPPING SCREW, BVT2+3-6
20	87-NF5-018-010		KEY, FUN	K	87-067-690-010		BVIT3B+3-12 BLK
21	87-NF5-020-010		KEY, VF	L	87-751-104-410		VT2+3-30<85HE, 85LH>
22	87-NFS-005-010		KEY, PRO	M	87-067-581-010		TAPPING SCREW, BVT2+3-15
23	87-NF5-024-010		KEY, ASSY OPE	N	87-NF4-224-010		S-SCREW, IT3B+3-8 CU
24	87-NF5-021-010		KEY, EDIT<EXCEPT 85EZ>	O	87-721-096-410		QT2+3-10 GLD
24	87-NF5-052-010		KEY, RDS<85EZ>				
25	82-NE6-067-010		BADGE, AIWA 30N				
26	87-NF5-005-010		PANEL, TRAY H				
27	87-NF4-216-010		HLDR, LOCK 1				
28	82-NF5-228-010		SPR-C, LOCK				
29	82-NF5-229-010		PLATE, LOCK				
30	87-NF4-217-010		HLDR, LOCK 2				
31	87-NFS-019-110		CABI, REAR EZSTNM<85EZ>				

SPRING APPLICATION POSITION

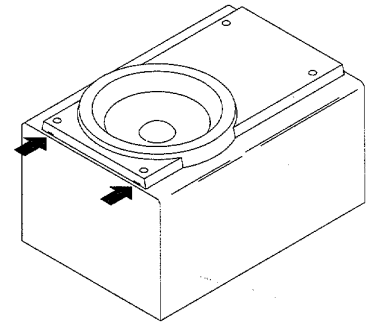


SPEAKER DISASSEMBLY INSTRUCTIONS

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。

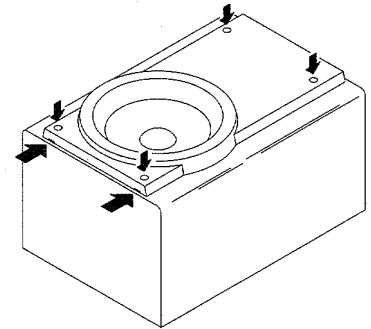
Insert a flat-bladed screwdriver into the position indicated by the arrows and remove the panel. remove the screws of each speaker unit and then remove the speaker units.



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

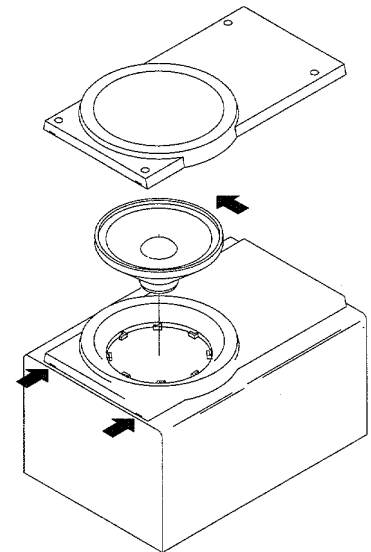
Remove the grill frame and four pieces of rubber caps by pulling out with a flat-bladed screwdriver. Remove the screws from hole where installed rubber caps. Insert a flat-bladed screwdriver into the position indicated by the arrows and remove the panel. Remove the screws of each speaker unit and then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



Type.3

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

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



SPEAKER PARTS LIST (SX-NA74 <YU>)

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

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	87-NSE-001-010		PANEL, FR R
2	87-NSE-002-010		PANEL, FR L
3	87-NSF-003-010		PANEL, DUCT R
4	87-NSF-004-010		PANEL, DUCT L
5	87-NSE-012-010		GRILLE, FRAME ASSY R
6	87-NSE-014-010		GRILLE, FRAME ASSY L
7	87-NSF-602-010		SPKR, W 160
8	87-NSE-604-019		SPKR, T 80
9	87-NSF-610-019		SPKR, CORD

SPEAKER PARTS LIST (SX-R210<YU>)

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

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	83-VS3-019-010		GRILLE FRAME ASSY B<YUAST>
1	83-VS3-004-010		GRILLE FRAME ASSY<YUST>
2	83-VS3-601-010		SPEAKER
3	81-VSA-010-010		SPEAKER, CORD

SPEAKER PARTS LIST (SX-C400<YU>)

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

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	85-NSY-111-010		PANEL, FR ST
2	85-NSY-010-010		GRILLE FRAME ASSY<YUST>
2	85-NSY-017-010		GRILLE FRAME ASSY B<YUAST>
3	85-NSY-602-010		SPEAKER
4	83-NSM-010-010		SPEAKER, CORD

SPEAKER PARTS LIST (SX-NAV85 <YJT,YLT,YT,Y1T,YB>)

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

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	87-NSR-001-010		PANEL, FR R
2	87-NSR-002-010		PANEL, FR L
3	87-NSR-003-010		PANEL, TW
4	87-NSR-009-010		GRILLE, FRAME ASSY
5	83-096-614-010		SPEAKER CODE
6	87-NSU-610-010		TERMINAL, ASSY
7	87-NSS-602-010		SPKR, W 160
8	87-NSR-604-019		SPKR, T 80

SPEAKER PARTS LIST (SX-C423 <YJ, Y>)

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

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	85-NSY-017-010		GRILLE FRAME ASSY B (C400<YJA, YA, YJ7A>)
1	85-NSY-010-010		GRILLE FRAME ASSY (C400<EXCEPT YJA, YA, YJ7A>)
2	85-NSY-001-010		PANEL, FR (C400<YJB, YB, YJ7B>)
2	85-NSY-011-010		PANEL, FR ST (C400<YST, ST, YJST, YJ7ST, YJA, YA, YJ7A>)
3	85-NSY-002-010		PANEL, REAR (C400<YJB, YB, YJ7B>)
3	85-NSY-012-010		PANEL, REAR ST (C400<YST, ST, YJST, YJ7ST, YJA, YA, YJ7A>)
4	85-NSY-602-010		SPEAKER (C400)
5	83-NSM-010-010		SPEAKER, CORD (C400)
6	85-NSX-015-010		GRILLE FRAME ASSY B (R230<YJA, YA, YJ7A>)
6	85-NSX-005-010		GRILLE FRAME ASSY (R230<EXCEPT YJA, YA, YJ7A>)
7	85-NSX-001-010		PANEL, FR (R230<YJB, YB, YJ7B>)
7	85-NSX-009-010		PANEL, FR (R230<YST, ST, YJST, YJ7ST, YJA, YA, YJ7A>)
8	85-NSX-002-010		PANEL, REAR (R230<YJB, YB, YJ7B>)
8	85-NSX-010-010		PANEL, REAR (R230<YST, ST, YJST, YJ7ST, YJA, YA, YJ7A>)
9	85-NSX-601-010		SPEAKER (R230)
10	81-VSA-010-010		SPEAKER, CORD (R230)

SPEAKER PARTS LIST (SX-R270 <YS, YU>)

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

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	87-YS1-004-019		GRILLE, FRAME ASSY
2	81-VSA-010-019		SPKR, CORD
3	85-NSX-601-019		SPKR, 100

SPEAKER PARTS LIST (SX-C600 <YU>)

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

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	87-YS3-001-019		PANEL, FR ST
2	87-YS3-002-019		PANEL, REAR ST
3	87-YS3-003-019		GRILLE, FRAME ASSY
4	85-NSY-602-019		SPKR, 10
3	83-NSM-010-019		SPKR, CORD

ACCESSORIES / PACKAGE LIST

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

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	87-NFS-903-010		IB, U(ESF)M-71<USTNM>
1	87-NFS-910-010		IB, U(ESF)I<UST>
1	87-NFS-901-010		IB, H(ECA)M<HEJSTNM>
1	87-NFS-911-010		IB, H(ECA)I<HEST>
1	87-NFS-916-010		IB, E(EGFSI)M<ESTNM>
1	87-NFS-906-010		IB, E(EGFSI)E<ESTNE>
1	87-NFS-902-010		IB, LH(ES)M<LHSTNM>
1	87-NFS-912-010		IB, LH(ES)I<LHST>
2	87-NB7-651-010		RC UNIT, RC-7AS08
3	87-A90-064-010		FEEDER-ANT, FM (SHS)<EXCEPT EZ>
3	87-043-106-010		ANT, FM 1007 AWG<EZ>
4	87-099-789-010		PLUG, CONVERSION IR44<HESTNM, LHSTNM>
4	87-A90-312-010		PLUG, CONVERSION WTN-1157RI<HEST, LHST>
5	87-006-225-010		ANT, LOOP ANT NC2<EXCEPT HE>
5	87-A90-054-010		ANT, LOOP AM-CON C<HE>
6	87-043-095-010		ANT, WIRE<HE>

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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