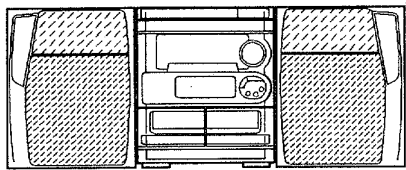


# aiwa



## NSX-K350



COMPACT DISC STEREO  
CASSETTE RECEIVER

- BASIC TAPE MECHANISM : 2ZM-3 MK2 YPR4
- BASIC CD MECHANISM : 4ZG-1 VSGD

- TYPE : HR, HC

SYSTEM	SPEAKER	CD - CASSEIVER
NSX-K350	SX-FNS36	CX-NK350

If requiring information about the CD mechanism, see Service Manual of 4ZG-1,  
S/M Code No. 09-977-206-10T.

SERVICE MANUAL

# SPECIFICATIONS

## <FM Tuner section>

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

## <MW Tuner section>

**Tuning range** 531 kHz to 1602 kHz (9 kHz step)  
 530 kHz to 1710 kHz (10 kHz step)  
**Usable sensitivity** 350  $\mu$ V/m  
**Antenna** Loop antenna

## <SW Tuner section>

**Tuning range** 5.900 MHz to 17.900 MHz  
**Antenna** Wire antenna

## <Amplifier section>

**Power output** Rated : 68 W + 68 W ( 6 ohms,  
 THD 1 %, 1kHz)  
 Reference : 85 W + 85 W ( 6 ohms,  
 THD 10 %, 1kHz)

**Total harmonic distortion** 0.05 % (70 W, 1 kHz, 6 ohms DIN AUDIO)

**Inputs** VIDEO/AUX : 150 mV (adjustable)  
 MD: 150 mV (adjustable)  
 MIC1, MIC2 : 1 mV (10 kohms)

**Outputs** Line out : 200mV  
 SUPER WOOFER : 2.3 V  
 VIDEO OUT : 1.0 Vp-p (75 ohms)  
 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** 50 Hz -15000 Hz  
**Recording system** AC bias  
**Heads** Deck 1 : Playback head x1  
 Deck 1 : 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** 85 dB (1 kHz, 0 dB)  
**Harmonic distortion** 0.05% (1 kHz, 0 dB)  
**Wow and flutter** Unmeasurable  
**Video signal** NTSC/PAL color format (selectable)  
**Video data** MPEG 1  
**Audio data** MPEG 1, LAYER 2

## <Speaker system SX-FNS36>

**Cabinet type** 2 way, bass reflex with surround speaker (magnetic shielded type)  
**Speakers** Woofer :

140 mm cone type

Tweeter :

60 mm cone type

Surround speaker :

60 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)** 240 x 304 x 253 mm

**Weight** 3.2 kg

## <General>

**Power requirements** 120 V/ 220 - 230 V/240 V AC, switchable 50/60 Hz

**Power consumption** 115 W

**Dimensions of main unit (W x H x D)** 260 x 309 x 346 mm

**Weight of main unit** 6.7 kg

• Design and specifications are subject to change without notice.

## ACCESSORIES / PACKAGE LIST

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

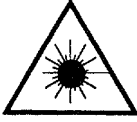
REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	87-NH7-910-010		IB, B( EC-H) I<HR>
1	87-NH7-911-010		IB, HC( EC-K) I<HC>
2	87-043-095-010		WIRE, ANTENNA
3	87-050-103-010		CORD, PIN 1PY1.5M
4	87-A90-054-010		ANT, LOOP AM-CON C
5	87-A90-064-010		FEEDER-ANT, FM (SHS)
△ 6	87-A90-312-010		PLUG, CONVERSION WTN-1157R1
7	87-NH4-660-010		RC UNIT, RC-7AS07

# 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 ylit-tävälle 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.

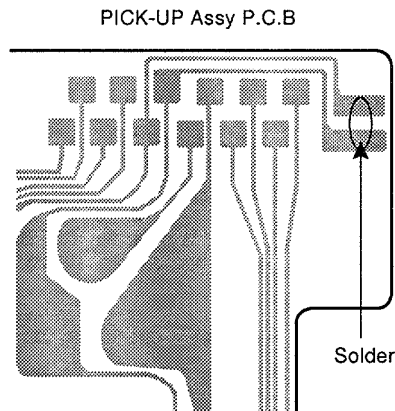
CLASS 1	LASER PRODUCT
KLASSE 1	LASER PRODUKT
LUOKAN 1	LASER LAITE
KLASS 1	LASER APPARAT

## 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 care the clothes do not touch the diode.

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



# 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				C109	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
				C110	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
	87-NH4-610-010	IC,LC866548A-5E56		C111	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
	87-070-083-010	IC,GPLU281X		C112	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
	87-A20-501-040	C-IC,BA7762FS		C113	87-A10-417-080		CAP,E 47-63 SME
	87-A20-083-010	IC,BA3835S					
	87-A20-450-040	C-IC,BH3864F		C116	87-A10-417-080		CAP,E 47-63 SME
				C117	87-010-430-080		CAP,E 100-63
	87-A20-613-040	C-IC,BU9262AFS		C118	87-010-263-080		CAP,E 100-10 SME
	87-A20-456-040	C-IC,BH3810FS		C119	87-010-260-080		CAP,E 47-25 SME
	87-017-888-080	C-IC,NJM4558MD		C120	87-010-403-080		CAP,E 3.3-50 M SME
	86-NFZ-655-010	IC,LC72131D(Z)					
	87-A20-438-010	IC,LA1837		C121	87-012-140-080		C-CAP,S 470P-50 J CH
				C123	87-010-384-080		CAP,E 100-25 M SME
	87-A20-561-040	IC,M65847AFP		C124	87-010-112-080		CAP,E 100-16 M SME
	87-020-454-010	IC,DN6851		C125	87-010-235-080		CAP,E 470-16 SME
				C129	87-010-393-080		CAP,E 100-35 M SME
TRANSISTOR				C201	87-010-400-080		CAP,E 0.47-50 M SME
	87-026-263-080	C-TR,RN1410		C202	87-010-400-080		CAP,E 0.47-50 M SME
	89-213-702-010	TR,2SB1370E		C205	87-010-183-080		C-CAP,S 2700P-50 K B
	87-A30-076-080	C-TR,2SC3052F		C206	87-010-183-080		C-CAP,S 2700P-50 K B
	87-026-610-080	TR,KTC3198GR		C207	87-010-404-080		CAP,E 4.7-50 M SME
	87-A30-073-080	C-TR,RT1N 141C					
				C208	87-010-404-080		CAP,E 4.7-50 M SME
	87-A30-085-070	C-TR,CSA1362GR		C209	87-010-404-080		CAP,E 4.7-50 M SME
	87-A30-083-080	TR,CSD1489B		C210	87-010-404-080		CAP,E 4.7-50 M SME
	87-A30-075-080	C-TR,2SA1235F		C211	87-010-186-080		C-CAP,S 4700P-50 K B
	87-A30-084-080	TR,CSB1058B		C212	87-010-186-080		C-CAP,S 4700P-50 K B
	87-A30-071-080	C-TR,RT1N 144C					
				C213	87-010-260-080		CAP,E 47-25 SME
	87-026-609-080	TR,KTA1266GR		C214	87-010-260-080		CAP,E 47-25 SME
	87-A30-086-070	C-TR,CSD1306E		C215	87-012-368-080		C-CAP,S 0.1-50 Z F
	87-A30-106-070	C-TR,CMBT5551		C219	87-012-368-080		C-CAP,S 0.1-50 Z F
	87-A30-111-080	TR,C2N5401		C220	87-012-368-080		C-CAP,S 0.1-50 Z F
	87-A30-162-010	FET,2SK2937					
				C221	87-012-368-080		C-CAP,S 0.1-50 Z F
	87-A30-097-010	TR,FN1016		C222	87-012-368-080		C-CAP,S 0.1-50 Z F
	89-505-434-540	C-FET,2SK543-TB(4/5)		C223	87-010-194-080		C-CAP,S 0.047-25 Z F
	87-A30-098-010	TR,FP1016		C225	87-A10-516-080		C-CAP,S 100P-200V
	87-A30-089-010	FET,2SK2723		C226	87-A10-516-080		C-CAP,S 100P-200V
	87-A30-072-080	C-TR,RT1P 144C					
				C229	87-016-461-080		C-CAP,S 0.47-16 Z F
	87-A30-087-080	C-FET,2SK2158		C230	87-016-461-080		C-CAP,S 0.47-16 Z F
	87-A30-074-080	C-TR,RT1P141C		C242	87-010-406-080		CAP,E 22-50 M SME
	89-327-143-080	C-TR,2SC2714 (O)		C243	87-010-197-080		C-CAP,S 0.01-25 K B
	87-026-463-080	TR,2SA933S		C244	87-010-406-080		CAP,E 22-50 M SME
DIODE							
	87-A40-270-080	C-DIODE,MC2838		C301	87-010-318-080		C-CAP,S 47P-50 J CH
	87-A40-116-060	DIODE,RS403L-B-D-51		C302	87-010-318-080		C-CAP,S 47P-50 J CH
	87-A40-115-060	DIODE,RS603M		C303	87-012-157-080		C-CAP,S 330P-50 J CH GRM
	87-017-437-080	DIODE,1N4148M		C304	87-012-157-080		C-CAP,S 330P-50 J CH GRM
	87-A40-246-080	DIODE,1N4148T-72		C305	87-012-145-080		C-CAP,S 270P-50 J CH
	87-A40-269-080	C-DIODE,MC2836		C306	87-012-145-080		C-CAP,S 270P-50 J CH
	87-070-274-080	DIODE,1N4003 SEM		C307	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
	87-A40-344-080	ZENER,MTZJ6.2C		C309	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
	87-A40-341-080	ZENER,MTZJ36A		C310	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
	87-A40-345-080	ZENER,MTZJ10C		C311	87-010-198-080		C-CAP,S 0.022-25 K B
	87-A40-004-089	ZENER,MTZJ16 A		C312	87-010-198-080		C-CAP,S 0.022-25 K B
	87-A40-184-090	DIODE,RK34 (F)		C313	87-010-178-080		C-CAP,S 1000P-50 K B
	87-070-136-080	ZENER,MTZJ5.1B		C314	87-010-178-080		C-CAP,S 1000P-50 K B
	87-017-481-080	ZENER,UZ-5.6BSB		C315	87-010-178-080		C-CAP,S 1000P-50 K B
	87-A40-003-080	ZENER,MTZJ4.3A		C316	87-010-178-080		C-CAP,S 1000P-50 K B
	87-A40-234-080	ZENER,MTZJ5.6A		C321	87-016-492-080		C-CAP,S 0.33-16 Z F
				C322	87-016-492-080		C-CAP,S 0.33-16 Z F
				C324	87-010-260-080		CAP,E 47-25 SME
				C325	87-010-370-080		CAP,E 330-6.3 M SME
				C327	87-010-404-080		CAP,E 4.7-50 M SME
MAIN C.B							
				C328	87-010-404-080		CAP,E 4.7-50 M SME
C101	87-016-520-090	CAP,E 3300-65 M SMG		C332	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C102	87-016-520-090	CAP,E 3300-65 M SMG		C335	87-010-401-080		CAP,E 1-50 M SME
C103	87-016-658-090	CAP,E 4700-35 M SMG		C336	87-010-401-080		CAP,E 1-50 M SME
C104	87-016-658-090	CAP,E 4700-35 M SMG		C337	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C105	87-012-368-080	C-CAP,S 0.1-50 Z F					
				C339	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
				C340	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C106	87-012-368-080	C-CAP,S 0.1-50 Z F		C351	87-012-140-080		C-CAP,S 470P-50 J CH
C107	87-012-368-080	C-CAP,S 0.1-50 Z F		C352	87-012-140-080		C-CAP,S 470P-50 J CH
C108	87-012-368-080	C-CAP,S 0.1-50 Z F		C354	87-010-175-080		C-CAP,S 560P-50 J SL

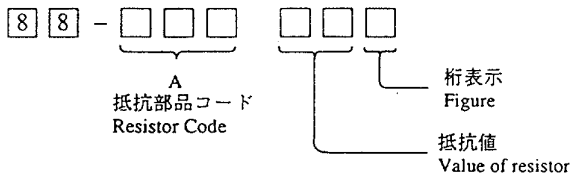
REF.NO.	PART NO.	KANRI NO.	DESCRIPTION	REF.NO.	PART NO.	KANRI NO.	DESCRIPTION
C355	87-010-178-080		C-CAP,S 1000P-50 K B	C765	87-010-197-080		C-CAP,S 0.01-25 K B
C356	87-010-260-080		CAP,E 47-25 SME	C766	87-010-197-080		C-CAP,S 0.01-25 K B
C357	87-010-197-080		C-CAP,S 0.01-25 K B	C767	87-010-405-080		CAP,E 10-50 M SME
C358	87-010-183-080		C-CAP,S 2700P-50 K B	C768	87-010-197-080		C-CAP,S 0.01-25 K B
C359	87-010-183-080		C-CAP,S 2700P-50 K B	C769	87-010-408-080		CAP,E 47-50 SME
C360	87-010-183-080		C-CAP,S 2700P-50 K B	C770	87-015-821-080		C-CAP, 0.047-50 Z F GR
C370	87-010-196-080		C-CAP,S 0.1-25 Z F C2012	C771	87-010-407-080		CAP,E 33-50 SME
C373	87-010-993-080		C-CAP,S 0.056-25 K B	C772	87-010-194-080		C-CAP,S 0.047-25 Z F
C374	87-010-993-080		C-CAP,S 0.056-25 K B	C773	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C378	87-010-196-080		C-CAP,S 0.1-25 Z F C2012	C774	87-010-263-080		CAP,E 100-10 SME
C379	87-010-382-080		CAP,E 22-25 M SME	C775	87-010-404-080		CAP,E 4.7-50 M SME
C380	87-010-382-080		CAP,E 22-25 M SME	C777	87-010-400-080		CAP,E 0.47-50 M SME
C381	87-010-197-080		C-CAP,S 0.01-25 K B	C778	87-010-401-080		CAP,E 1-50 M SME
C382	87-010-312-080		C-CAP,S 15P-50 J CH	C779	87-010-401-080		CAP,E 1-50 M SME
C383	87-010-197-080		C-CAP,S 0.01-25 K B	C780	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C384	87-010-402-080		CAP,E 2.2-50 M SME	C781	87-010-405-080		CAP,E 10-50 M SME
C386	87-010-196-080		C-CAP,S 0.1-25 Z F C2012	C782	87-010-405-080		CAP,E 10-50 M SME
C387	87-012-145-080		C-CAP,S 270P-50 J CH	C783	87-015-819-080		C-CAP,0.01-50 K B
C388	87-010-154-080		C-CAP,S 10P-50 D CH	C784	87-010-197-080		C-CAP,S 0.01-25 K B
C421	87-010-402-080		CAP,E 2.2-50 SME	C785	87-010-400-080		CAP,E 0.47-50 M SME
C422	87-010-402-080		CAP,E 2.2-50 SME	C786	87-010-400-080		CAP,E 0.47-50 M SME
C503	87-012-154-080		C-CAP,S 150P-50 CH	C787	87-010-184-080		C-CAP,S 3300P-50 K B
C504	87-012-154-080		C-CAP,S 150P-50 CH	C788	87-010-184-080		C-CAP,S 3300P-50 K B
C505	87-012-145-080		C-CAP,S 270P-50 CH	C789	87-010-179-080		C-CAP,S 1200P-50 K B
C506	87-012-145-080		C-CAP,S 270P-50 CH	C790	87-010-179-080		C-CAP,S 1200P-50 K B
C507	87-010-183-080		C-CAP,S 2700P-50 K B	C791	87-010-405-080		CAP,E 10-50 M SME
C509	87-010-196-080		C-CAP,S 0.1-25 Z F C2012	C793	87-010-178-080		C-CAP,S 1000P-50 K B
C510	87-010-177-080		C-CAP,S 820P-50 SL	C794	87-010-406-080		CAP,E 22-50 M SME
C511	87-010-177-080		C-CAP,S 820P-50 SL	C795	87-010-596-080		C-CAP,S 0.047-25 R K
C512	87-010-196-080		C-CAP,S 0.1-25 Z F C2012	C796	87-010-403-080		CAP,E 3.3-50 M SME
C513	87-010-374-080		CAP,E 47-10 SME	C797	87-010-180-080		C-CAP,S 1500P-50 K B
C514	87-010-196-080		C-CAP,S 0.1-25 Z F C2012	C798	87-010-180-080		C-CAP,S 1500P-50 K B
C515	87-010-263-080		CAP,E 100-10 SME	C799	87-010-194-080		C-CAP,S 0.047-25 Z F
C517	87-010-183-080		C-CAP,S 2700P-50 K B	C812	87-010-197-080		C-CAP,S 0.01-25 K B
C527	87-010-196-080		C-CAP,S 0.1-25 Z F C2012	C814	87-010-197-080		C-CAP,S 0.01-25 K B
C605	87-010-180-080		C-CAP,S 1500P-50 K B	C820	87-010-408-080		CAP,E 47-50 SME
C606	87-010-180-080		C-CAP,S 1500P-50 K B	C821	87-010-197-080		C-CAP,S 0.01-25 K B
C611	87-010-196-080		C-CAP,S 0.1-25 Z F C2012	C822	87-010-197-080		C-CAP,S 0.01-25 K B
C613	87-010-404-080		CAP,E 4.7-50 SME	C823	87-010-197-080		C-CAP,S 0.01-25 K B
C614	87-010-404-080		CAP,E 4.7-50 SME	C828	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C615	87-010-183-080		C-CAP,S 2700P-50 K B	C829	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C619	87-010-263-080		CAP,E 100-10 SME	C940	87-010-197-080		C-CAP,S 0.01-25 K B
C620	87-010-196-080		C-CAP,S 0.1-25 Z F C2012	C941	87-010-314-080		C-CAP,S 22P-50 CH
C621	87-010-263-080		CAP,E 100-10 SME	C943	87-010-197-080		C-CAP,S 0.01-25 K B
C622	87-010-196-080		C-CAP,S 0.1-25 Z F C2012	C945	87-010-197-080		C-CAP,S 0.01-25 K B
C623	87-010-194-080		C-CAP,S 0.047-25 Z F	C947	87-010-197-080		C-CAP,S 0.01-25 K B
C629	87-012-368-010		C-CAP,0.1-50 FZ	C952	87-010-197-080		C-CAP,S 0.01-25 K B
C646	87-010-322-080		C-CAP,S 100P-50 J CH	C954	87-010-400-080		CAP,E 0.47-50M SME
C647	87-010-322-080		C-CAP,S 100P-50 J CH	C953	87-010-197-080		C-CAP,S 0.01-25 K B
C701	87-010-381-080		CAP,E 330-16 SME	C956	87-010-263-080		CAP,E 100-10 SME
C702	87-010-404-080		CAP,E 4.7-50 M SME	C959	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C703	87-010-197-080		C-CAP,S 0.01-25 K B	C960	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C704	87-010-197-080		C-CAP,S 0.01-25 K B	C962	87-010-401-080		CAP,E 1-50 M SME
C711	87-010-263-080		CAP,E 100-10 SME	CF801	87-008-261-010		FLTR,CFSFE10.7MA5
C712	87-010-196-080		C-CAP,S 0.1-25 Z F C2012	CF802	87-008-261-010		FLTR,CFSFE10.7MA5
C713	87-010-197-080		C-CAP,S 0.01-25 K B	FFE801	A8-7ZA-291-030		7ZA-2 YFEUNM
C714	87-010-197-080		C-CAP,S 0.01-25 K B	J252	87-A60-024-010		JACK,DIAG.3 BLK ST W/SW KM
C721	87-010-312-080		C-CAP,S 15P-50 J CH	J253	87-099-474-010		JACK,PIN 3P BLK W/SW
C722	87-010-312-080		C-CAP,S 15P-50 J CH	J254	87-A60-238-010		TERMINAL,SP 4P (MSC)
C723	87-010-178-080		C-CAP,S 1000P-50 K B	J601	87-A60-426-010		JACK,PIN 6P
C725	87-010-178-080		C-CAP,S 1000P-50 K B	J801	87-A60-202-010		TERMINAL,ANT 4P MSP-154V-02
C727	87-010-196-080		C-CAP,S 0.1-25 Z F C2012	J940	81-754-629-010		CONNECTOR, XH 2P
C728	87-010-248-080		CAP,E 220-10 SME	L201	87-003-383-010		COIL,1UH K
C755	87-010-197-080		C-CAP,S 0.01-25 K B	L202	87-003-383-010		COIL,1UH K
C756	87-010-197-080		C-CAP,S 0.01-25 K B	L301	87-A50-049-010		COIL,TRAP 85K(COI)
C757	87-010-318-080		C-CAP,S 47P-50 J CH	L302	87-A50-049-010		COIL,TRAP 85K(COI)
C758	87-010-149-080		C-CAP,S 5P-50 CH	L351	87-007-342-010		COIL,OSC 85KHZ BIAS
C761	87-010-196-080		C-CAP,S 0.1-25 Z F C2012	L601	87-003-231-010		C-COIL,1UH K
C762	87-010-197-080		C-CAP,S 0.01-25 K B	L770	87-005-849-080		COIL,10UH K CECS
C763	87-010-194-080		C-CAP,S 0.047-25 Z F	L771	87-A50-165-010		COIL,FM DET-N(TOK)

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
L772	87-A90-052-010		FLTR,CFMT-450A (TOK)	C410	87-010-592-080		C-CAP,S 0.022-16 K R
L832	87-005-847-080		COIL,2.2UH K CECS	C411	87-016-463-080		C-CAP,0.33-16 K B
L941	87-A50-022-080		COIL,ANT SW C01	C412	87-016-463-080		C-CAP,0.33-16 K B
L942	87-A50-173-080		COIL,OSC SW-N C01	C413	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
L943	87-005-372-080		COIL,1MH K LA103	C414	87-010-374-040		CAP,E 47-10 SME
L944	87-A50-159-080		COIL,10MH	C415	87-010-374-040		CAP,E 47-10 SME
L981	87-NF4-666-010		COIL,AM PACK3(TOK)	C416	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
△PR201	87-A90-195-080		PROTECTOR,7A 491SERIES 125V	C417	87-016-081-080		C-CAP,S 0.1-16 K R
△PR202	87-A90-195-080		PROTECTOR,7A 491SERIES 125 V	C418	87-010-405-040		CAP,E 10-50 M SME
R123	87-022-200-080		RES,M/F 0.56-1W J	C501	87-010-319-080		C-CAP,S 56P-50 J CH
R229	87-A00-257-080		RES,M/F 0.15-1W J	C502	87-010-319-080		C-CAP,S 56P-50 J CH
R230	87-A00-257-080		RES,M/F 0.15-1W J	C503	87-012-393-080		C-CAP,S 0.22-16 K W5R CM/CB
RY101	87-045-389-010		RELAY,12V OSA-SS-212DM5	C504	87-010-197-080		C-CAP,S 0.01-25 K B
RY201	87-045-382-010		RELAY,12V OUAZ-SH-112L	C505	87-010-180-080		C-CAP,S 1500P-50 K B
SFR301	87-024-438-080		SFR,220K H RH063MC	C506	87-010-213-080		C-CAP,S 0.015-25K B
SFR302	87-024-438-080		SFR,220K H RH063MC	C507	87-010-213-080		C-CAP,S 0.015-25K B
SFR303	87-024-438-080		SFR,220K H RH063MC	C508	87-010-197-080		C-CAP,S 0.01-25 K B
SFR304	87-024-438-080		SFR,220K H RH063MC	C509	87-010-181-080		C-CAP,S 1800P-50 K B
SFR351	87-024-436-080		SFR,47K H RH063MC	C510	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
SFR352	87-024-436-080		SFR,47K H RH063MC	C512	87-010-374-040		CAP,E 47-10 SME
TC941	87-011-220-080		TRIMMER,CER 20P 6.15X5.9	C513	87-010-494-040		CAP,E 1-50 5L SRE
TC942	87-011-221-080		TRIMMER,CER 30P 6.15X5.9	C514	87-010-494-040		CAP,E 1-50 5L SRE
TH201	87-A90-221-010		C-THMS,100K	C515	87-010-183-080		C-CAP,S 2700P-50 K B
TH202	87-A90-221-010		C-THMS,100K	C516	87-010-183-080		C-CAP,S 2700P-50 K B
W1	85-NF5-628-010		F-CABLE,7P-2.5	C518	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
X721	87-A70-061-010		VIB,XTAL 4.500MHZ CSA-309	C519	87-015-677-040		CAP,E 100-6.3 M 7L SRA
X771	87-030-354-010		VIB,CER 450KHZ BFU	C521	87-018-209-040		CAP,TC-U 0.1-50 FZ
				C523	87-012-393-080		C-CAP,S 0.22-16 K W5R CM/CB
				C601	87-010-560-040		CAP,E 10-50 M 5L MA
				C602	87-010-186-080		C-CAP,S 4700P-50 K B
FRONT C.B							
C101	87-010-198-080		C-CAP,S 0.022-25 K B	C603	87-010-498-040		CAP,E 10-16 M 5L SRE
C102	87-010-198-080		C-CAP,S 0.022-25 K B	C604	87-010-499-040		CAP,E 22-6.3 M 5L SRE
C103	87-010-197-080		C-CAP,S 0.01-25 K B	C605	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C104	87-010-312-080		C-CAP,S 15P-50 J CH	C607	87-010-321-080		C-CAP,S 82P-50 J CH
C105	87-010-316-080		C-CAP,S 33P-50 J CH	C608	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C106	87-010-320-080		C-CAP,S 68P-50 J CH	C609	87-010-491-040		CAP,E 0.22-50 5L SRE
C107	87-012-157-080		C-CAP,S 330P-50 J CH GRM	C611	87-010-177-080		C-CAP,S 820P-50 J SL
C108	87-010-498-040		CAP,E 10-16M 5L SRE	C614	87-010-248-040		CAP,E 220-10 M SME
C109	87-010-494-040		CAP,E 1-50 5L SRE	FB601	87-008-372-080		FLTR,EMBL01 RN1
C110	87-010-196-080		C-CAP,S 0.1-25 Z F C2012	FL101	87-NF7-603-010		FL,BJ532GK
C111	87-010-196-080		C-CAP,S 0.1-25 Z F C2012	J601	82-NF7-630-010		JACK,3.5MO
C112	87-010-196-080		C-CAP,S 0.1-25 Z F C2012	J602	82-NF7-630-010		JACK,3.5MO
C113	87-A10-189-040		CAP,E 220-10 M	L501	87-005-448-080		COIL,220UH K FLR50
C114	87-010-196-080		C-CAP,S 0.1-25 Z F C2012	S301	87-A90-164-080		SW,TACT SKQAB(N)
C115	87-010-178-080		C-CAP,S 1000P-50 K B	S302	87-A90-164-080		SW,TACT SKQAB(N)
C116	87-010-401-040		CAP,E 1-50 M SME	S304	87-A90-164-080		SW,TACT SKQAB(N)
C117	87-010-550-040		CAP,E 100-6.3 5L SRE	S305	87-A90-164-080		SW,TACT SKQAB(N)
C118	87-010-194-080		C-CAP,S 0.047-25 Z F	S306	87-A90-164-080		SW,TACT SKQAB(N)
C119	87-010-408-040		CAP,E 47-50 M SME	S307	87-A90-164-080		SW,TACT SKQAB(N)
C120	87-010-404-040		CAP,E 4.7-50 SME	S308	87-A90-164-080		SW,TACT SKQAB(N)
C121	87-010-404-040		CAP,E 4.7-50 SME	S309	87-A90-164-080		SW,TACT SKQAB(N)
C122	87-010-194-080		C-CAP,S 0.047-25 Z F	S310	87-A90-164-080		SW,TACT SKQAB(N)
C123	87-010-196-080		C-CAP,S 0.1-25 Z F C2012	S311	87-A90-164-080		SW,TACT SKQAB(N)
C124	87-010-196-080		C-CAP,S 0.1-25 Z F C2012	S312	87-A90-164-080		SW,TACT SKQAB(N)
C127	87-010-196-080		C-CAP,S 0.1-25 Z F C2012	S313	87-A90-164-080		SW,TACT SKQAB(N)
C128	87-010-178-080		C-CAP,S 1000P-50 K B	S314	87-A90-164-080		SW,TACT SKQAB(N)
C351	87-012-158-080		C-CAP,S 390P-50 J CH GRM	S315	87-A90-164-080		SW,TACT SKQAB(N)
C352	87-010-196-080		C-CAP,S 0.1-25 Z F C2012	S316	87-A90-164-080		SW,TACT SKQAB(N)
C353	87-010-196-080		C-CAP,S 0.1-25 Z F C2012	S317	87-A90-164-080		SW,TACT SKQAB(N)
C354	87-010-196-080		C-CAP,S 0.1-25 Z F C2012	S318	87-A90-164-080		SW,TACT SKQAB(N)
C355	87-010-196-080		C-CAP,S 0.1-25 Z F C2012	S319	87-A90-164-080		SW,TACT SKQAB(N)
C356	87-010-196-080		C-CAP,S 0.1-25 Z F C2012	S320	87-A90-164-080		SW,TACT SKQAB(N)
C357	87-010-196-080		C-CAP,S 0.1-25 Z F C2012	S326	87-A90-164-080		SW,TACT SKQAB(N)
C403	87-010-596-080		C-CAP,S 0.047-16 K R	S327	87-A90-164-080		SW,TACT SKQAB(N)
C404	87-010-596-080		C-CAP,S 0.047-16 K R	S328	87-A90-164-080		SW,TACT SKQAB(N)
C405	87-010-401-040		CAP,E 1-50 M SME	S329	87-A90-164-080		SW,TACT SKQAB(N)
C406	87-010-401-040		CAP,E 1-50 M SME	S331	87-A90-164-080		SW,TACT SKQAB(N)
C407	87-010-184-080		C-CAP,S 3300P-50 K B	S332	87-A90-164-080		SW,TACT SKQAB(N)
C408	87-010-184-080		C-CAP,S 3300P-50 K B	S336	87-A90-164-080		SW,TACT SKQAB(N)
C409	87-010-592-080		C-CAP,S 0.022-16 K R	S337	87-A90-164-080		SW,TACT SKQAB(N)

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
S338	87-A90-164-080		SW,TACT SKQNB(N)	DECK C.B			
SW101	87-A90-535-010		SW,RTRY EC16B24304-WO	CON502	87-099-756-019		CONN, 15P 9604 S F
X101	87-A70-070-080		VIB,CER 5.76MHZ CRHF	SFR1	87-024-581-019		SFR,3.3K DIA 6H
PT C.B				SOL1	82-ZM1-618-010		SOL ASSY, 27
△F101	87-035-368-010		FUSE,4A 250V T	SOL2	82-ZM1-618-010		SOL ASSY, 27
△FC1	87-033-147-010		FUSE CLAMP,MT-20	SW1	87-A90-248-019		SW,MICRO ESE11SH2CXQ
△FC2	87-033-147-010		FUSE CLAMP,MT-20	SW2	87-A90-248-019		SW,MICRO ESE11SH2CXQ
△PT101	87-NF7-606-010		PT,7NF-7 HR	SW3	87-A90-248-019		SW,MICRO ESE11SH2CXQ
△SW1	87-A90-165-010		SW,SL 1-2-3 SWS2301	SW4	87-036-110-010		SW,MICRO SPPB62
△T1	87-A60-317-010		TERMINAL, 1P MSC	SW5	87-036-110-010		SW,MICRO SPPB62
△T2	87-A60-317-010		TERMINAL, 1P MSC	SW6	87-036-110-010		SW,MICRO SPPB62
AC2 C.B				SW8	87-A90-248-019		SW,MICRO ESE11SH2CXQ
△PR1	87-A90-195-080		PROTECTOR, 7A 491SERIES 125V	SW9	87-036-110-010		SW,MICRO SPPB62
△PR2	87-A90-195-080		PROTECTOR, 7A 491SERIES 125V	W001	82-ZM3-601-019		RBN,CORD,4P-75
△PR5	87-026-682-080		PROTECTOR,10A 491 SERIES 60V	HEAD-1 C.B			
△PR6	87-026-682-080		PROTECTOR,10A 491 SERIES 60V		85-ZM3-602-010		PWB,FLEX A
				HEAD-2 C.B			
					85-ZM3-602-010		PWB,FLEX A

○ チップ抵抗部品コード / CHIP RESISTOR PART CODE

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



チップ抵抗  
Chip resistor

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

# TRANSISTOR ILLUSTRATION



ECB

KTA1266GR  
KTC3198GR



ECB

CSD1489B  
CSB1058B



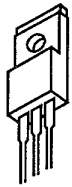
ECB

2SA933S



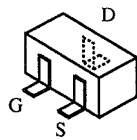
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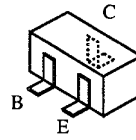


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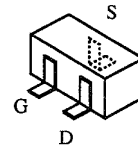
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FN1016  
FP1016



2SK2158



2SC2714    RN1410  
2SC3052    RT1P144  
2SA1235    RT1P141  
CSA1362    RT1N141  
CSD1306    RT1N144  
CMBT5551



2SK543



EBC

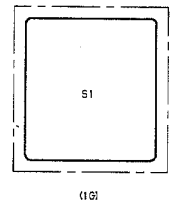
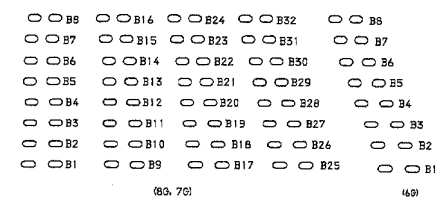
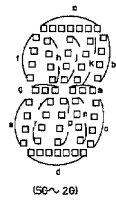
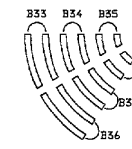
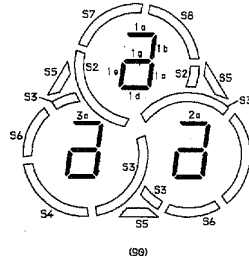
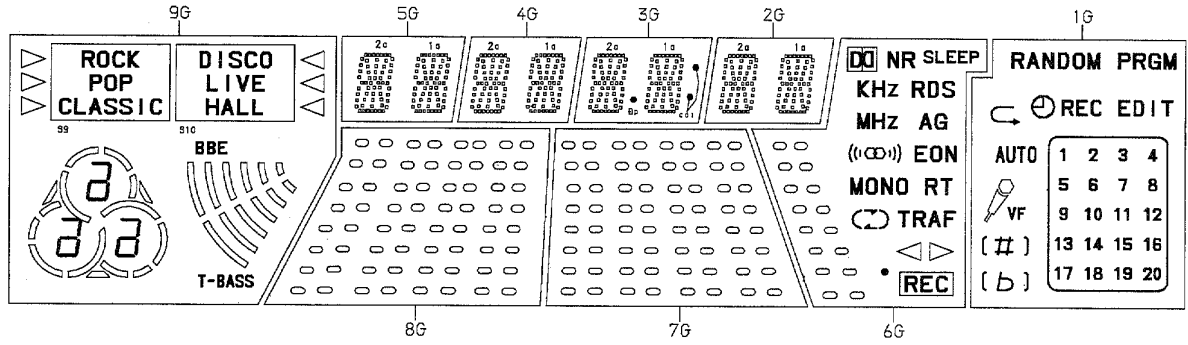
C2N5401



# FL GRID ASSIGNMENT AND ANODE CONNECTION

FL, BJ532GK

## GRID ASSIGNMENT



## ANODE CONNECTION

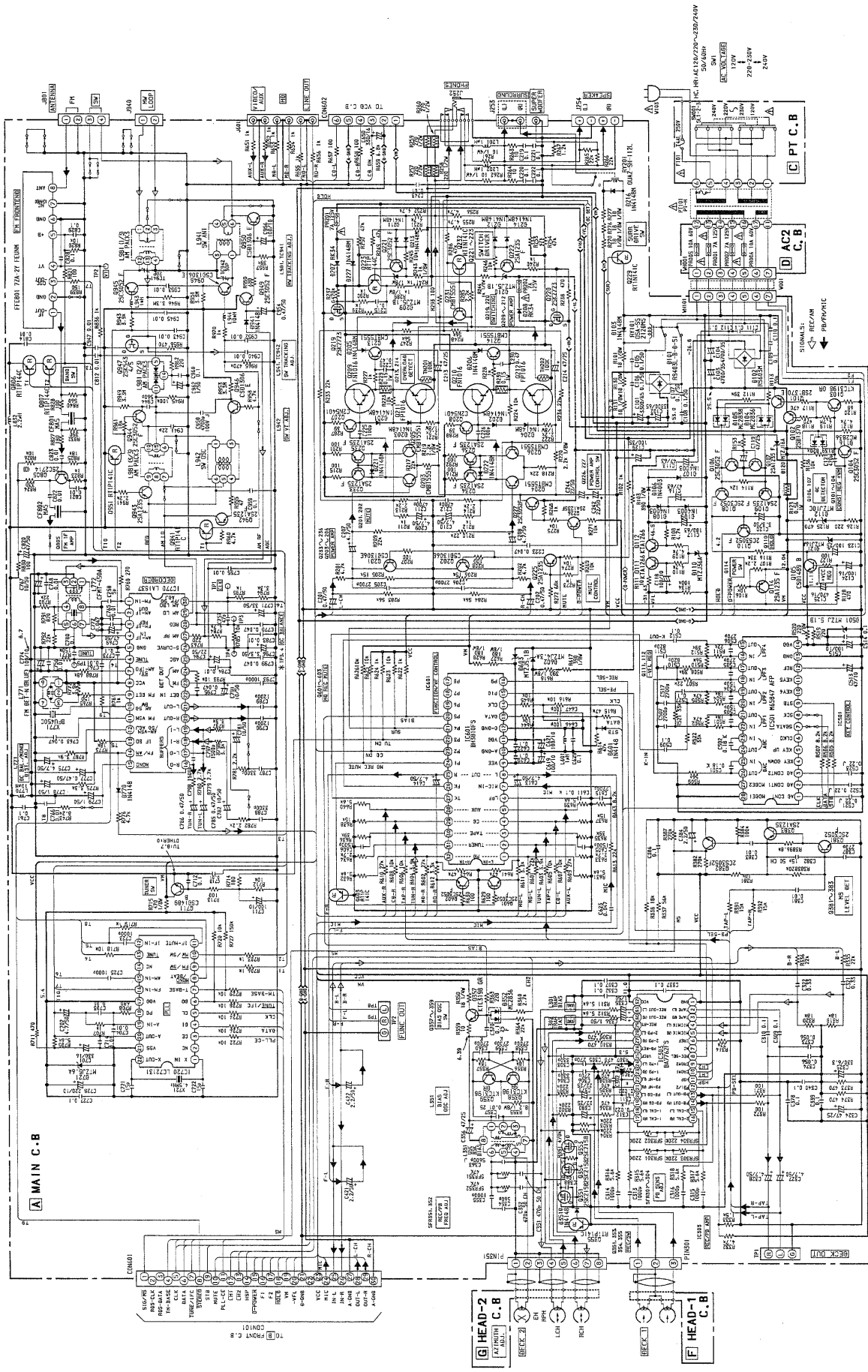
	9G	8G, 7G	6G	5G, 4G	3G	2G	1G
P1	S8	B32	▷	-	c c (RNS)	-	RANDOM
P2	S2	B24	◁	1d	1d	1d	-
P3	1c	B16	SLEEP	1n	1n	1n	PRGM
P4	1e	B8	B8	1p	1p	1p	EDIT
P5	1e	B31	○	1r	1r	1r	1
P6	1o, 1c, 1q	B23	REC	1e	1e	1e	2
P7	2b	B15	KHz	1c	1c	1c	3
P8	2c	B7	B7	1q	1q	1q	4
P9	2e	B30	MHz	1m	1m	1m	5
P10	2o, 2c, 2q	B22	-	1f	1f	1f	6
P11	3b	B14	NR	1b	1b	1b	7
P12	3c	B6	B6	1k	1k	1k	8
P13	3e	B29	RDS	1j	1j	1j	9
P14	3o, 3c, 3q	B21	-	1h	1h	1h	10
P15	S3	B13	-	1a	1a	1a	11
P16	S5	B5	B5	-	c o (IUP)	-	12
P17	S7	B28	-	-	0p	-	13
P18	S4	B20	-	2d	2d	2d	14
P19	S6	B12	-	2n	2n	2n	15
P20	(HALL) ◁	B4	B4	2p	2p	2p	16
P21	(LIVE) ◁	B27	AG	2r	2r	2r	17
P22	(DISCO) ◁	B19	((10))	2e	2e	2e	18
P23	▷ (CLASSIC)	B11	EON	2c	2c	2c	19
P24	▷ (POP)	B3	B3	2q	2q	2q	20
P25	▷ (ROCK)	B26	RT	2m	2m	2m	AUTO
P26	B36	B18	MONO	2f	2f	2f	VF
P27	B37	B10	TRAF	2b	2b	2b	REC
P28	B38	B2	B2	2k	2k	2k	REC
P29	B33	B25	)	2j	2j	2j	↻
P30	B34	B17	⌂	2h	2h	2h	(#)
P31	B35	B9	(	2o	2o	2o	((b))
P32	S9 T-BASS	B1	B1	-	-	-	S1
P33	S10	-	-	-	-	-	-
P34	BBE	-	-	-	-	-	-
P35	-	-	-	-	-	-	b #



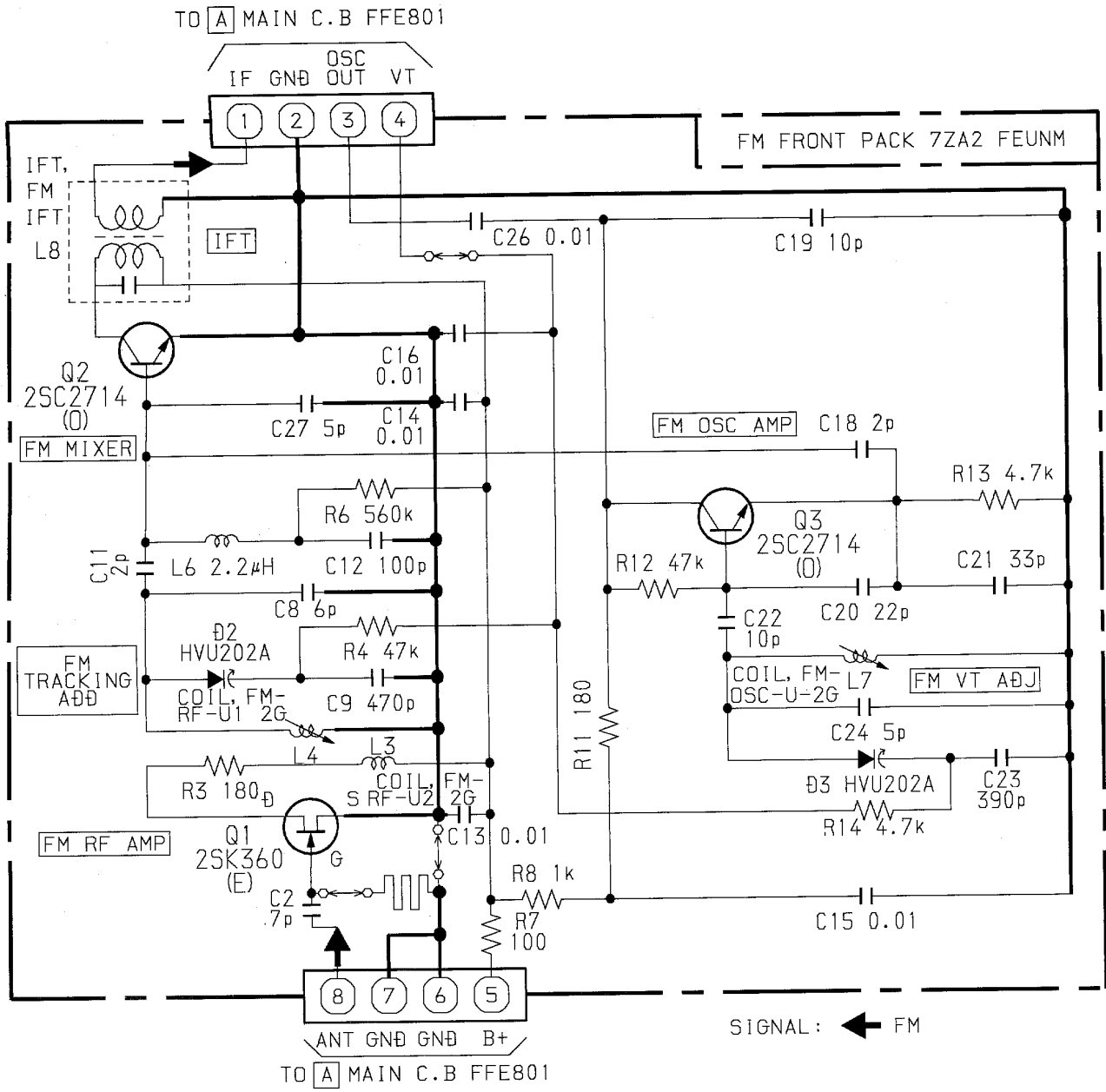


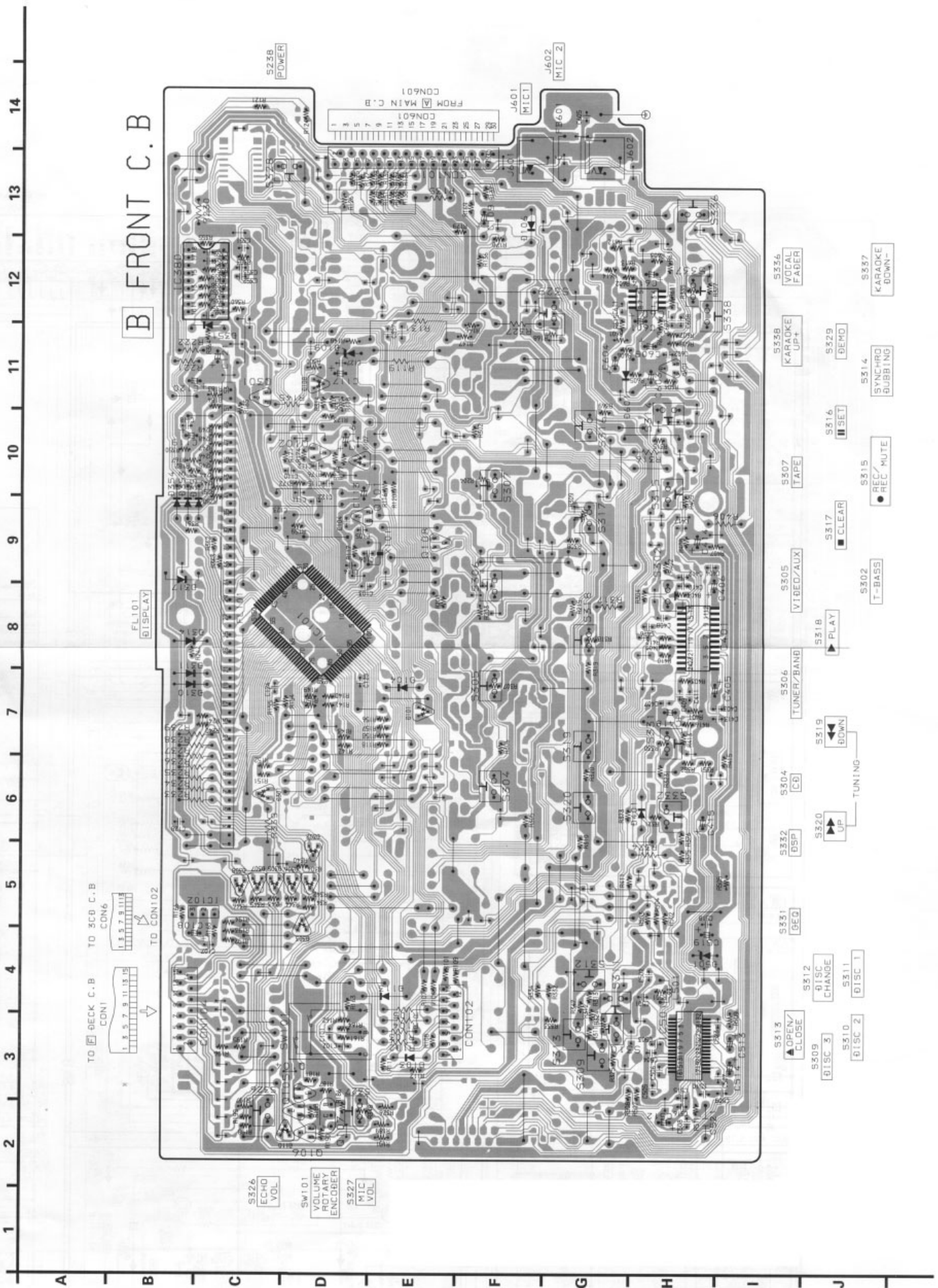


SCHEMATIC DIAGRAM - 1 (MAIN: HC, HR)



**SCHEMATIC DIAGRAM - 2 (TUNER : 7ZA - 2)**





B FRONT C.B

TO DECK C.B  
CON1

TO SCB C.B  
CON6

TO CONT02

FROM MAIN C.B  
CON601

1 3 5 7 9 11 13 15 17 19 21 23 25 27 29

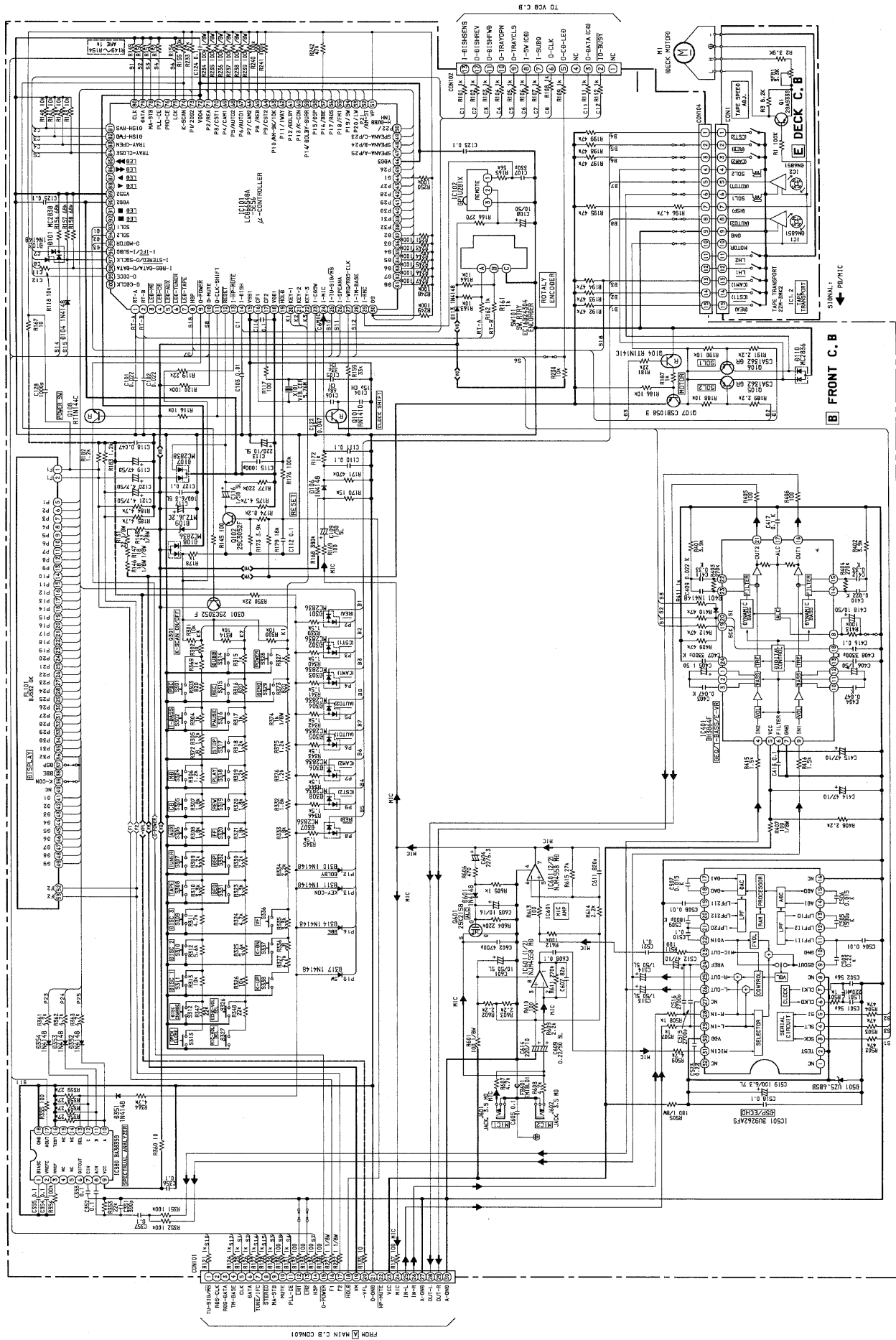
S326 ECHO VOL

SW101 VOLUME ROTARY ENCODER

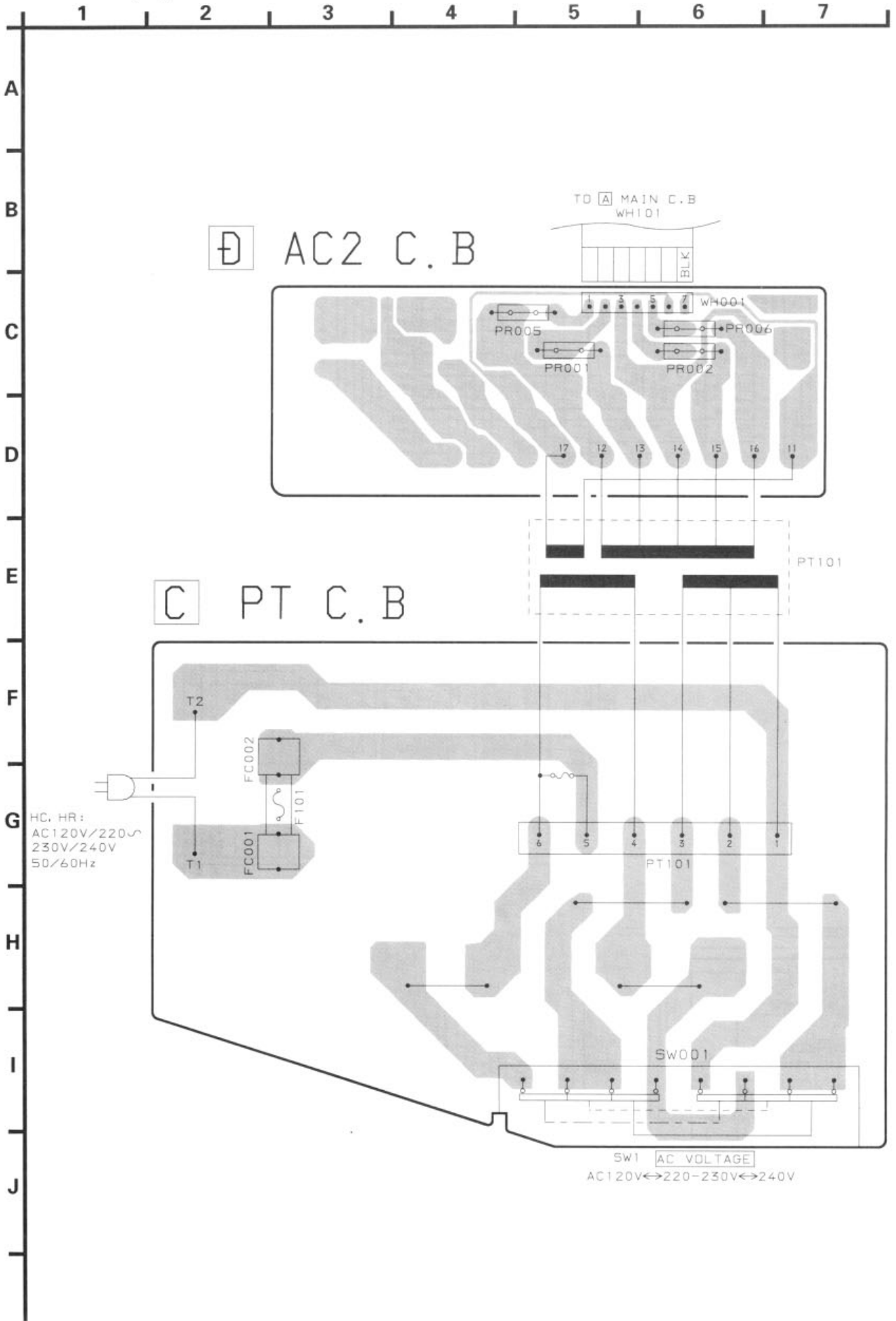
S327 MIC VOL

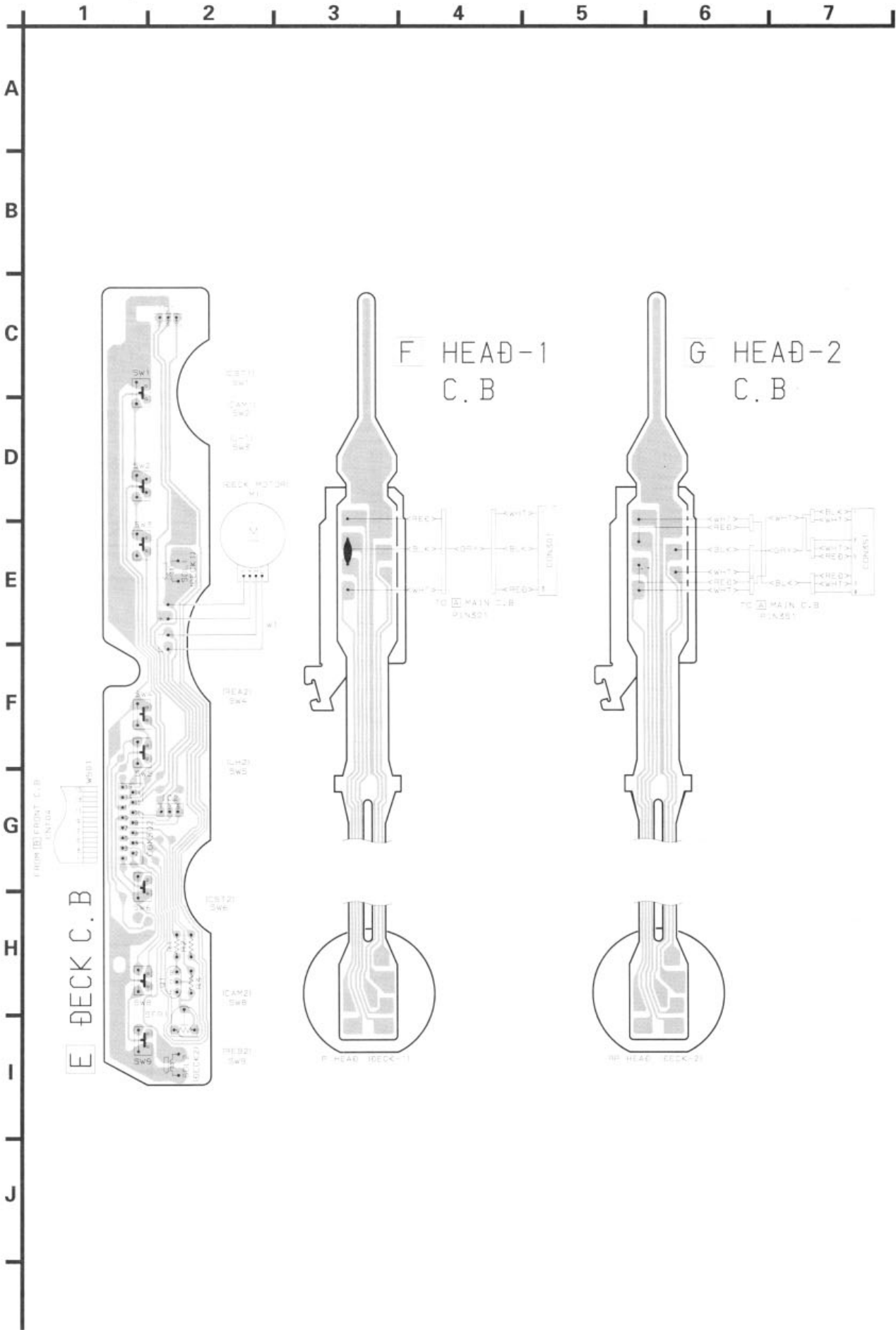
- S313 OPEN/CLOSE
- S309 DISC 3
- S310 DISC 2
- S311 DISC 1
- S312 DISC CHANGE
- S331 BEG
- S332 DSP
- S320 UP/DOWN
- S304 CD
- S306 TUNER/BAND
- S319 DOWN
- S305 VID/ED/AUX
- S317 CLEAR
- S315 REC/MUTE
- S302 T-BASS
- S318 PLAY
- S307 TAPE
- S316 SET
- S314 SYNC/HRO BUBBLING
- S338 KARAOKE UP+
- S336 VOCAL FADER
- S337 DEMO
- S329 KARAOKE DOWN-
- S313 MIC1
- S314 MIC2
- S323B POWER
- S310 FL101 DISPLAY
- S310 CON1
- S310 CON2
- S310 CON6
- S310 CON601
- S310 CON602
- S310 CON603
- S310 CON604
- S310 CON605
- S310 CON606
- S310 CON607
- S310 CON608
- S310 CON609
- S310 CON610
- S310 CON611
- S310 CON612
- S310 CON613
- S310 CON614
- S310 CON615
- S310 CON616
- S310 CON617
- S310 CON618
- S310 CON619
- S310 CON620

SCHEMATIC DIAGRAM - 3 (FRONT)









# IC DESCRIPTION

IC, LC866548A-5E56

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.

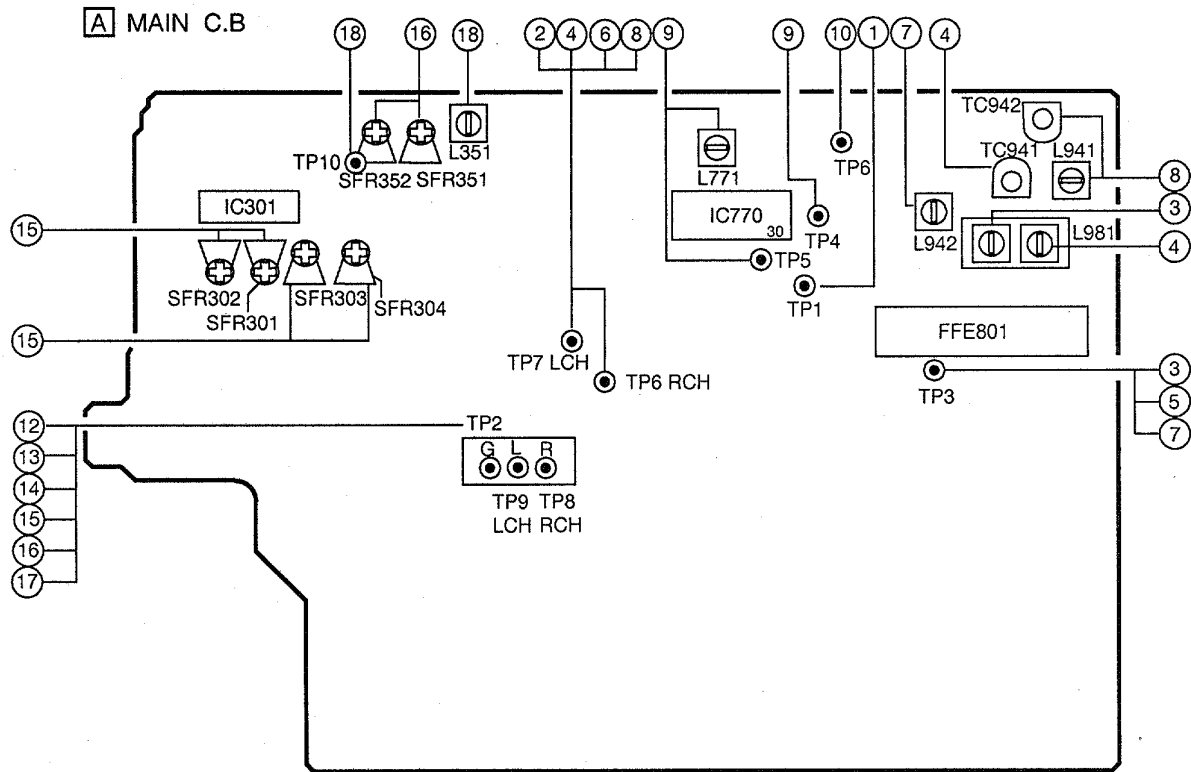
Pin No.	Pin Name	I/O	Description
55	P18/FM 1	I/O	FL segment P18 output / FM1 (OIRT) data input to diode.
56	P17/RDS	I/O	FL segment P17 output / RDS data input to diode.
57	P16/BBE	I/O	FL segment P16 output / BBE data input to diode.
58	P15/DSP	I/O	FL segment P15 output / DSP data input to diode.
59	P14/DOLBY-SURR	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 $\overline{\text{ON/OFF}}$ 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.

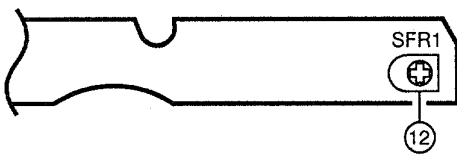
IC, LC72131

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 border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th colspan="2">2 BAND</th> <th colspan="3">3 BAND</th> <th colspan="3">3 BAND</th> </tr> <tr> <th>AM</th> <th>FM</th> <th>LW</th> <th>MW</th> <th>FM</th> <th>MW</th> <th>SW</th> <th>FM</th> </tr> </thead> <tbody> <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> </tbody> </table>	2 BAND		3 BAND			3 BAND			AM	FM	LW	MW	FM	MW	SW	FM	H	L	H	H	L	H	L	L
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AM	FM	LW	MW	FM	MW	SW	FM																				
H	L	H	H	L	H	L	L																				
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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.																								

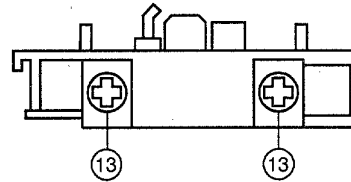
# ADJUSTMENT <TUNER / DECK>



## F DECK C.B



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



### < TUNER SECTION >

1. Clock Check  
 Settings : • Test point : TP1  
 Method : Set to MW 1710kHz and check that the test point is 2160kHz  $\pm$  0.045kHz.
2. FM Separation Check  
 Settings : • Test point : TP7, TP8  
 • Input Level : 54dB  
 Method : Set to FM 98.0MHz and check that the test point is more than 25 dB
3. MW VT Adjustment  
 Settings : • Test point : TP2 (VT)  
 • Adjustment location : L981  
 Method : Set to MW 1710kHz and adjust L981 so that the test point becomes 8.5V  $\pm$  0.05V. Then set to MW 530kHz and check that the test point is more than 0.3V.
4. MW Tracking Adjustment  
 Settings : • Test point : TP6, TP7  
 • Adjustment location :  
 L981 ..... 600kHz  
 TC941 ..... 1400kHz  
 Method : Set up TC941 to center before adjustment. The level at 600 kHz is adjusted to MAX by L981. Then the level at 1400 kHz is adjusted to MAX by TC941.
5. FM VT Check  
 Settings : • Test point : TP2 (VT)  
 Method : Set to FM 108.0MHz and check that the test point is less than 8.5V.  
 Set to FM 87.5MHz and check that the test point is more than 1.5V.

6. FM Tracking Check  
 Settings : • Test point : TP6, TP7  
 Method : • Set to FM 98.0MHz and check that the test point is  $2 \pm 6\text{dB}$ .
7. SW VT Adjustment  
 Settings : • Test point : TP2 (VT)  
 • Adjustment location : L942  
 Method : Set to SW 17.9MHz and adjust L942 so that the test point becomes  $7.0\text{V} \pm 0.05\text{V}$ .
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 adjust to MAX by L941.  
 Then the level at 17.9MHz is adjust to MAX by TC942.
9. DC Balance / Mono Distortion Adjustment  
 Settings : • Test point : TP3, TP4  
 • Adjustment location : L771  
 • Input level : 54dB  
 Method : Set to FM 98.0MHz and adjust L771 so that the voltage between TP4 and TP5 becomes  $0\text{V} \pm 0.04\text{V}$ .  
 Next, check that the distortion is less than 1.3%
10. Auto Stop Level Check  
 Settings : • Test point : TP5  
 • Input level : adjustable  
 Method : Set to FM 98.0 MHz and check that the voltage low about 0.1V. After that voltage high about 7.0V out by 2dB down.
11. Auto Stop Level Check  
 MW  
 Settings : • Input level : adjustable  
 Method : Check auto stop at MW 999kHz and the level is 35 ~ 60 dB.
- FM  
 Settings : • Input level : adjustable  
 Method : Check auto stop at FM 98.0MHz and the level is  $25\text{dB} \pm 10\text{dB}$ .
- SW  
 Settings : • Input level : adjustable  
 Method : Check auto stop at FM 12MHz and the level is less than 60 dB.

< DECK SECTION >

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  
 Settings : • Test tape : TTA-410  
 • 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.  
 Next, perform on each FWD PLAY and REV PLAY mode.
14. PB Frequency Response Check (DECK 1, DECK 2)  
 Settings : • Test tape : TTA-410  
 • 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 within 2dB.
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 330mV.
16. REC/PB Frequency Response Adjustment  
 Settings : • Test tape : TTA-602  
 • Test point : TP2  
 • 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 TP2 becomes 210mV. 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 Check  
 Settings : • Test tape : TTA-602  
 • Test point : TP8, TP9  
 • Input signal : 1kHz (LINE IN)  
 Method : Apply a 1kHz signal and REC mode. Then adjust OSC attenuator so that the output level at the TP2 becomes 21mV. Record and play back the 1kHz signals and check that the output is  $17\text{mV} \pm 3\text{dB}$ .
18. Bias OSC Frequency Adjustment  
 Settings : • Test point : TP10  
 • Adjustment location : L351  
 Method : Set to the REC mode. Adjust L351 so that the frequency counter of the test point is  $85\text{kHz} \pm 1\text{kHz}$ .

# PRACTICAL SERVICE FIGURE

## <TUNER SECTION>

### <FM SECTION>

IHF Sensitivity : MONO : 2dB  $\pm$  6dB  
(THD 3%) [at 87.5 / 98.0MHz/ 108.0MHz]  
S/N 50dB Quieting sensitivity :  
STEREO :  
30dB  $\pm$  6dB  
[at 87.5 / 98.0 / 108.0MHz]  
Signal to noise ratio : MONO :  
More than 65dB  
[at 98.0MHz ]  
STEREO :  
More than 64dB  
[at 83.0MHz ]  
Distortion : STEREO :  
Less than 2%  
[at 98.0MHz]  
MONO : 1.3%  
[at 98.0MHz]  
Stereo separation : More than 25dB  
[at 98.0MHz]  
Intermediate frequency : 10.7MHz

### <MW SECTION>

Sensitivity : 55dB  $\pm$  5dB  
(S/N 20 dB) [at 603kHz]  
53dB  $\pm$  5dB  
[at 999 / 1404kHz]  
Distortion : Less than 1.5%  
[at 999kHz]  
Intermediate frequency : 450kHz

### <SW SECTION>

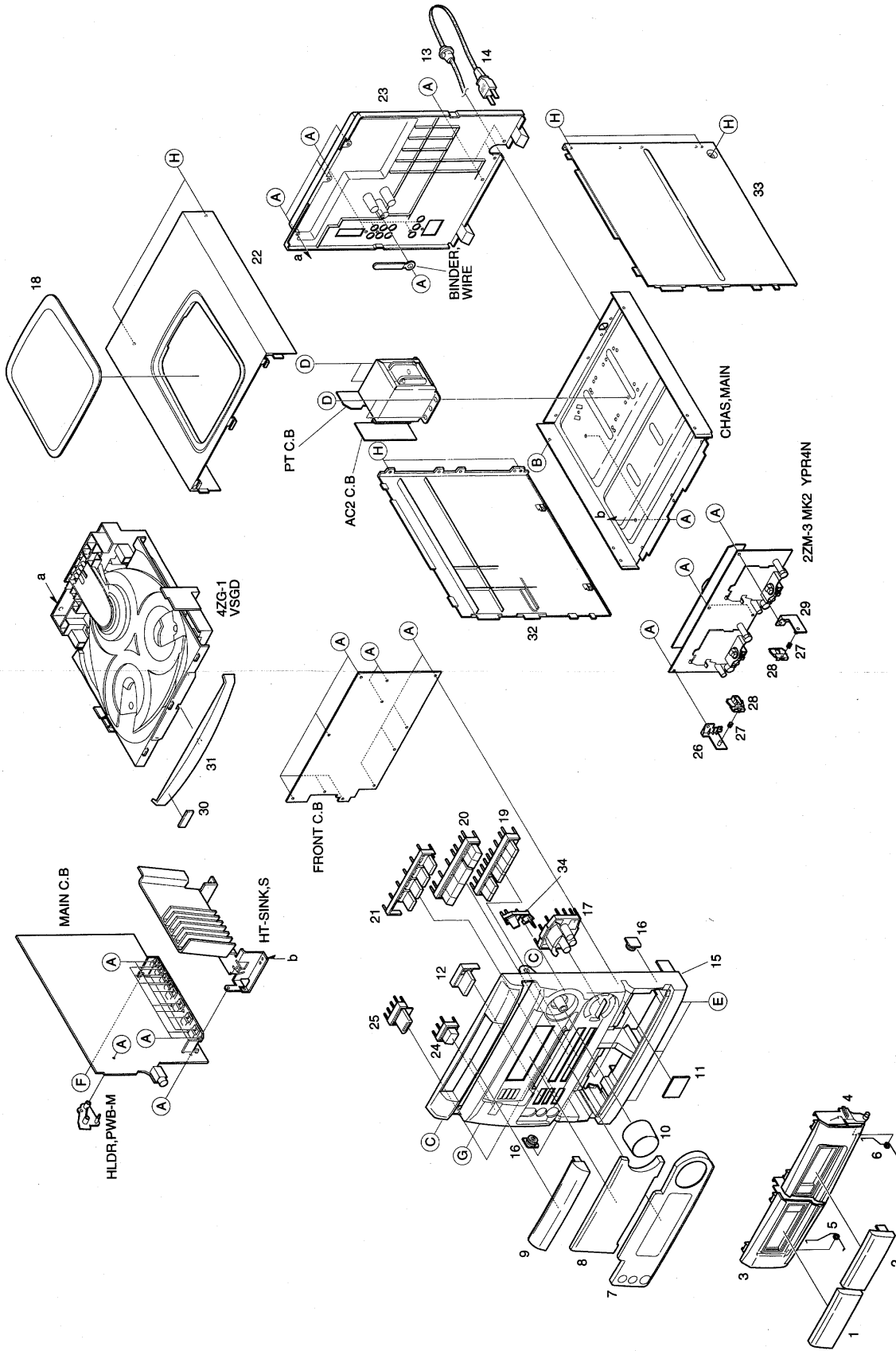
Sensitivity : 38dB  $\pm$  5dB (5.9MHz)  
(S/N 20dB) 33dB  $\pm$  5dB (12.0MHz)  
30dB  $\pm$  8dB (17.9MHz)  
Distortion : Less than 1.5% (12.0MHz)  
Intermediate frequency : 450kHz

## <DECK SECTION>

Tape speed : 3000Hz  $\pm$  45Hz  
Wow & flutter : Less than 0.21% (R.M.S)  
Take-up torque : 30 ~ 55g-cm (FWD, REV)  
F.F & REW torque : 75 ~ 180g-cm (F.F)  
75 ~ 130g-cm (REW)  
Back tension : 2 ~ 7g-cm (DECK1,DECK2)  
PB Output level : 2.9V  $\pm$  3dB  
REC/PB Output level : 1.9V  $\pm$  3dB  
Distortion (REC/PB) : Less than 2.0% (NORM, CrO2)  
Noise level (PB) : Less than 18mV (NORM, DOLBY OFF/  
ON B.C)  
Noise level (REC/PB) : Less than 20mV(NORM, DOLBY OFF/  
ON B.C)  
Crosstalk : More than 60dB (1kHz, NORM)  
Channel separation : More than 30dB (1kHz, NORM)  
Erasing ratio : More than 60dB (at 125Hz,CrO2)  
Test tape : NORM : TTA-602  
CrO2 : TTA-615



MECHANICAL EXPLODED VIEW 1 / 1

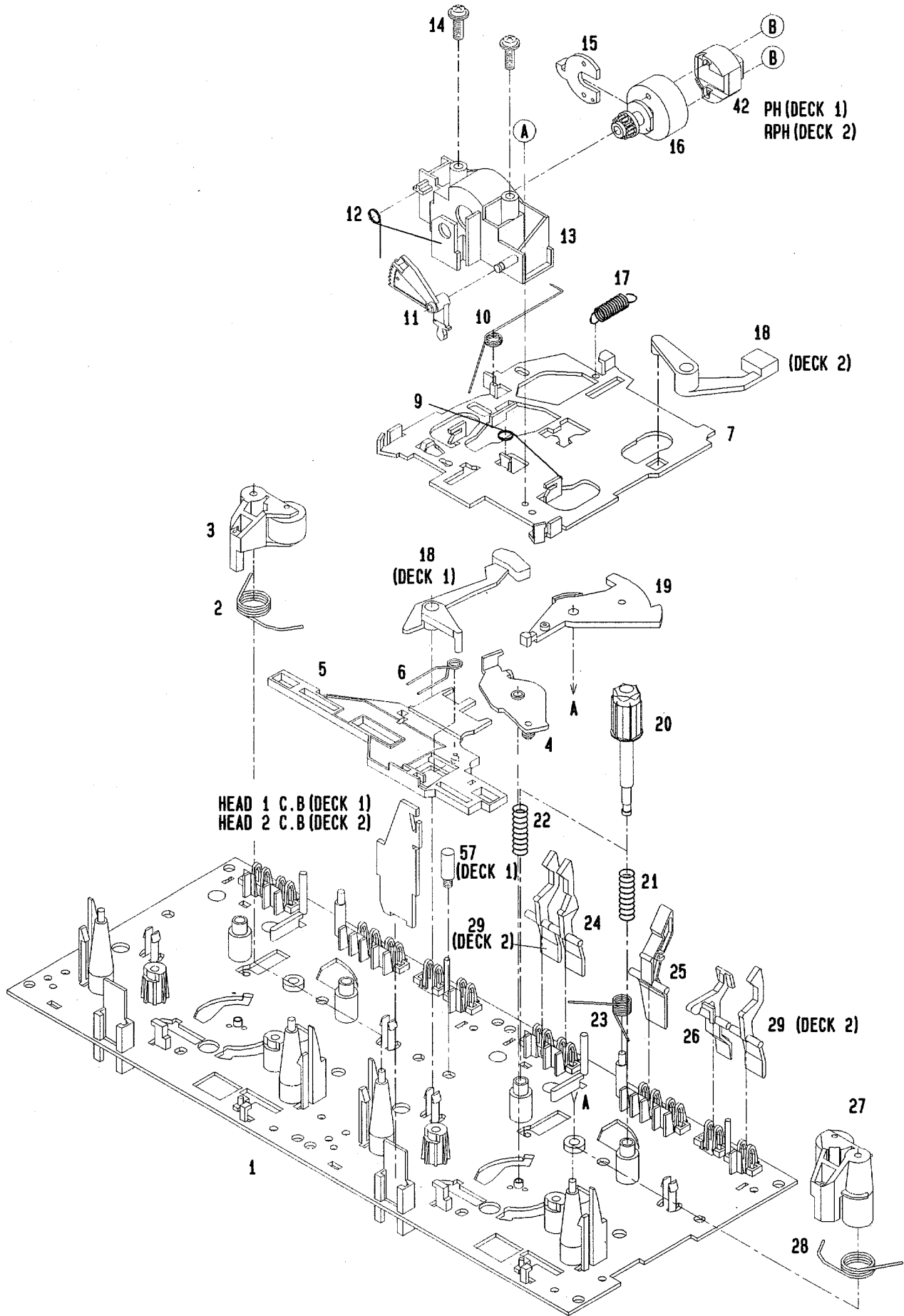


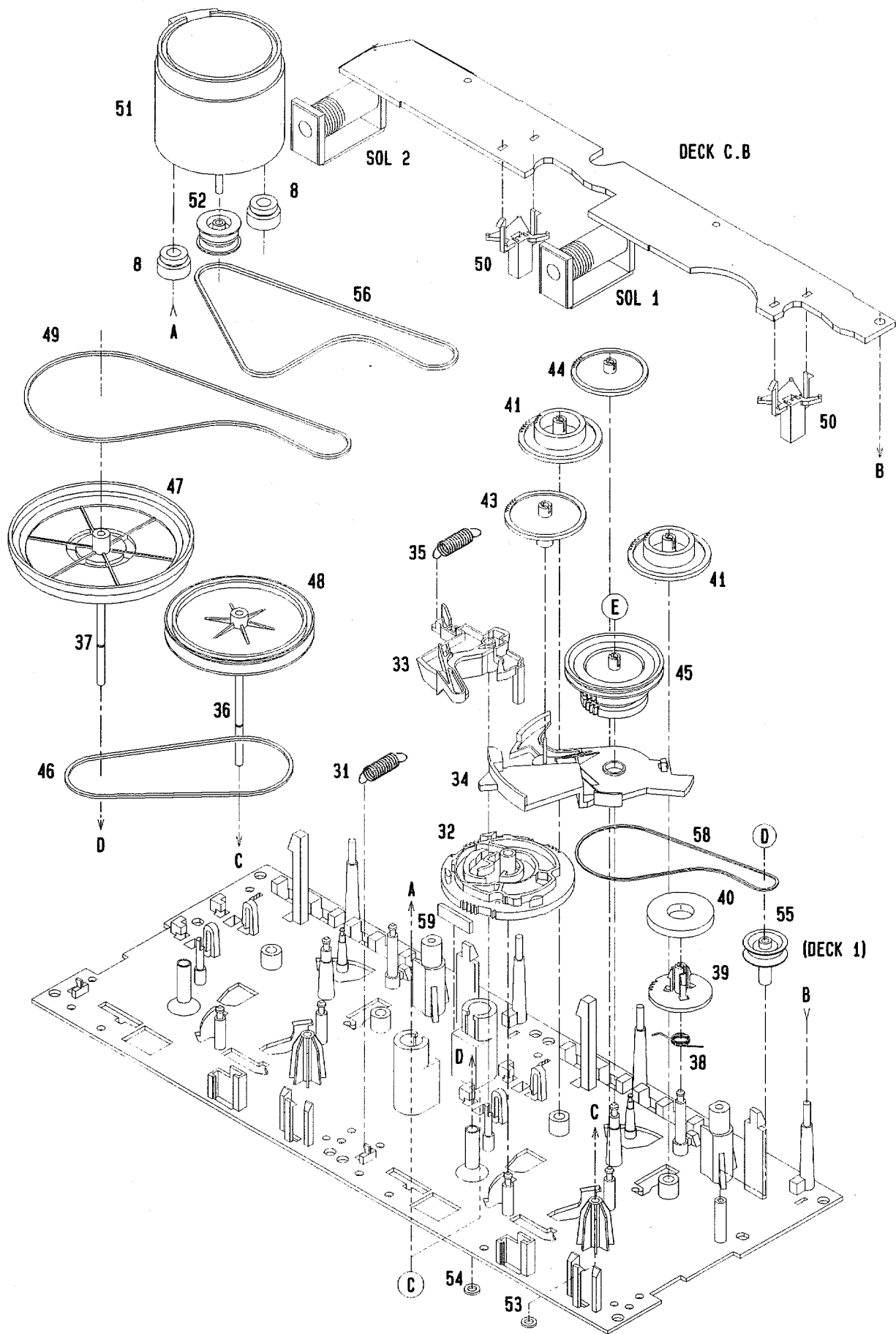
# MECHANICAL PARTS LIST 1 / 1

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

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	87-NF6-041-010		WINDOW,CASS 1	25	87-NH6-019-010		KEY,CON
2	87-NF6-042-010		WINDOW,CASS 2	26	87-NF4-216-010		HLDR,LOCK 1
3	87-NF6-011-210		BOX,CASS 1H	27	82-NF5-228-010		SPR-C,LOCK
4	87-NF6-012-210		BOX,CASS 2H	28	82-NF5-229-010		PLATE,LOCK
5	82-NF5-218-010		SPR-T,EJECT 1 (SIN)	29	87-NF4-217-010		HLDR,LOCK 2
6	82-NF5-219-010		SPR-T,EJECT 2 (SIN)	30	82-NE6-067-010		BADGE,AIWA 30N
7	87-NH7-006-010		PANEL,FR H	31	87-NH6-013-010		PANEL,TRAY H
8	87-NH6-007-010		WINDOW,DISPLAY H	32	87-NF6-022-010		PANEL,LEPT
9	87-NF6-043-010		WINDOW,CD	33	87-NF6-023-110		PANEL,RIGHT
10	87-NF6-036-010		KNOB,RTRY VOL	34	87-NF6-028-110		KEY,MIC
11	81-532-080-010		LABEL, CASS. COMPT	A	87-067-703-010		TAPPING SCREW, BVT2+3-10
12	87-NH7-011-010		KEY,VCD H	B	87-721-096-410		QT2+3-10 GLD
△ 13	87-050-079-010		AC-CORD ASSY,E	C	87-721-097-410		QT2+3-12 GLD
14	87-085-185-010		BUSHING, AC CORD (E)	D	87-078-019-010		S-SCREW,IT+4-6
15	87-NH7-001-010		CABI,FR H	E	87-067-688-010		BVT+3-6
16	87-063-165-010		OIL-DMPR 150	F	87-NF4-224-010		S-SCREW,IT3B+3-8 CU
17	87-NF7-021-010		KEY,CD	G	87-723-096-410		QT2+3-10W/O SLOT BL
18	86-NF6-007-010		WINDOW,TOP	H	87-B10-091-010		UTT2+3-10 W/O BLK
19	87-NF7-082-010		KEY,DSP HIGH				
20	87-NF7-029-010		KEY,PLAY REV				
21	87-NF7-023-010		KEY,FUNCTION MD				
22	87-NF6-021-010		PANEL,TOP				
23	87-NH7-024-110		CABI,REAR HCST<HC>				
23	87-NH7-023-110		CABI,REAR HRST<HR>				
24	87-NF6-025-010		KEY,POWER				

TAPE MECHANISM EXPLODED VIEW 1 / 1



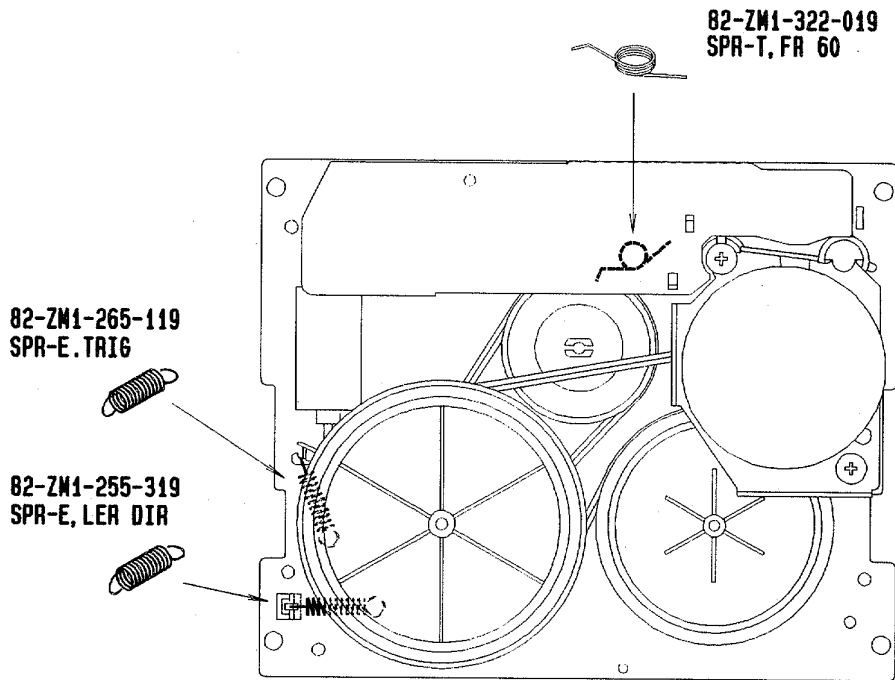
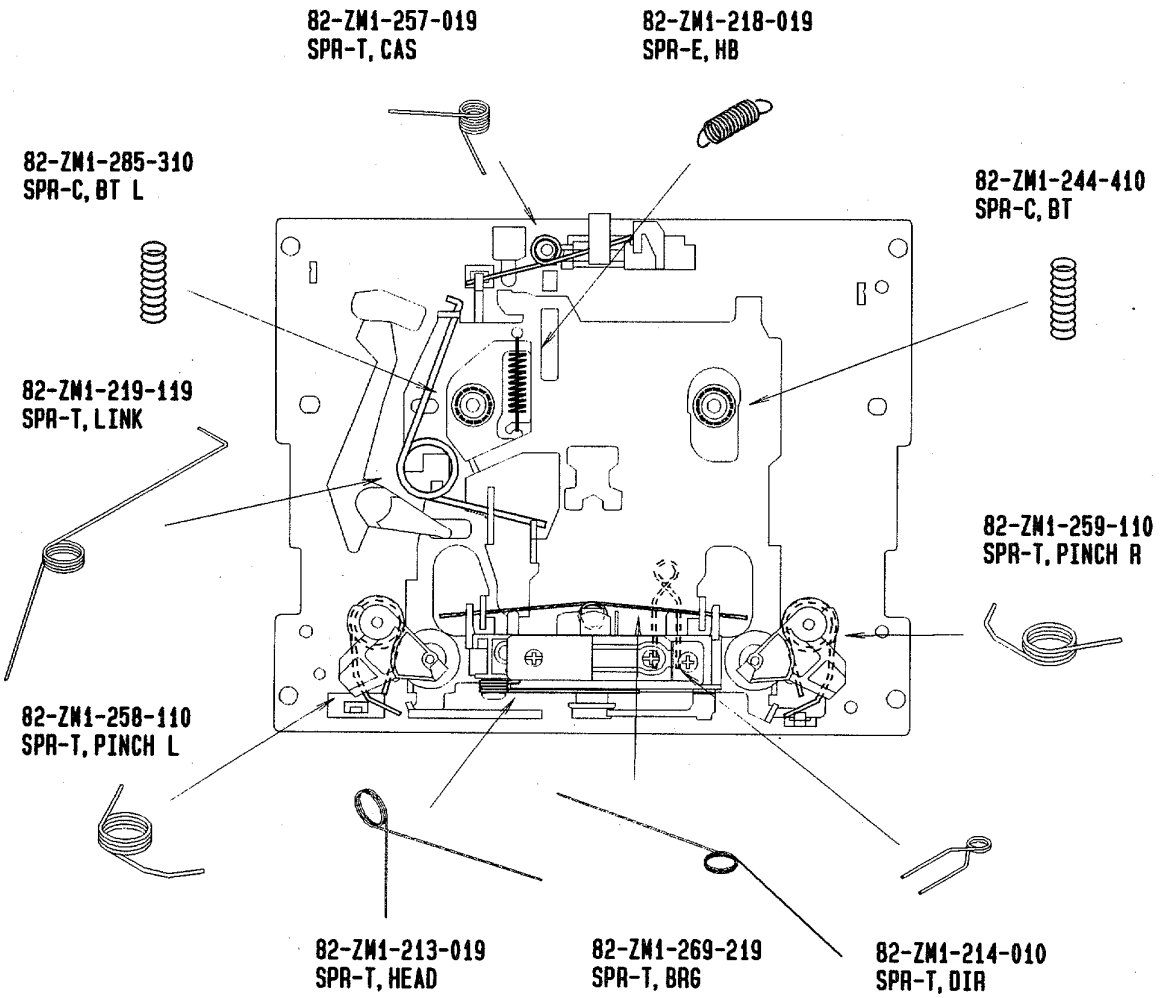


# TAPE MECHANISM PARTS LIST 1 / 1

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

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	82-ZM3-301-519		CHAS ASSY,M2	36	82-ZM1-236-019		CAPSTAN N 2-41.5
2	82-ZM1-258-110		SPR-T,PINCH L	37	82-ZM1-239-019		CAPSTAN N 2.2-41.7
3	82-ZM1-341-110		LVR ASSY,PINCH L2	38	82-ZM1-322-019		SPR-T,FR60
4	82-ZM1-333-010		PLATE,LINK 2	39	82-ZM1-220-219		GEAR,IDLER
5	82-ZM1-266-11K		LVR,DIR	40	82-ZM3-616-019		RING MAGNET 4
6	82-ZM1-214-010		SPR-T,DIR	41	82-ZM1-216-31K		GEAR,REEL
7	82-ZM1-206-81K		CHAS,HEAD	42	87-A90-319-010		HEAD,PH HADKH2 FPC
8	82-ZM3-307-019		CUSH-G,DIA3.7-8-3.2	42	87-A90-320-010		HEAD,RPH HADKH5 FPC
9	82-ZM1-269-219		SPR-T,BRG	43	82-ZM1-225-21K		GEAR,FR
10	82-ZM1-219-119		SPR-T,LINK	44	82-ZM1-226-019		GEAR,REW
11	82-ZM1-210-119		GEAR,H T	45	82-ZM3-333-310		SLIP DISK ASSY 2
12	82-ZM1-213-019		SPR-T,HEAD	46	82-ZM1-338-010		BELT FR4
13	82-ZM1-207-619		GUIDE,TAPE	47	82-ZM1-349-110		FLY-WHL,R W(DECK 2)
14	86-ZM4-206-010		S-SCREW,AZIMUTH	47	82-ZM3-338-110		FLY-WHL,R3 W(DECK 1)
15	82-ZM1-314-119		PLATE,HEAD	48	82-ZM1-348-010		FLY-WHL,L W(DECK 2)
16	82-ZM1-208-119		HLDR,HEAD	48	82-ZM1-348-010		FLY-WHL,L W(DECK 1)
17	82-ZM1-218-019		SPR-E,HB	49	82-ZM3-329-210		BELT,SBU R2
18	82-ZM1-263-110		LVR,EJECT L (DECK 1)	50	82-ZM1-245-210		HLDR,IC
18	82-ZM1-264-010		LVR,EJECT R (DECK 2)	51	87-045-347-019		MOT,SHU2L 70(m1)
19	82-ZM1-222-21K		LVR,PLAY	52	82-ZM3-221-010		PULLEY,MOT 2M
20	82-ZM1-217-319		REEL TABLE	53	82-ZM1-288-019		SH,1.63-3.2-0.5 SLT
21	82-ZM1-244-510		SPR-C,BT	54	80-ZM6-243-019		SH,1.75-3.6-0.5 SLT
22	82-ZM1-285-310		SPR-C,BT L	55	82-ZM3-335-210		PULLEY,COUPLER M3(DECK 1)
23	82-ZM1-257-019		SPR-T,CAS	56	82-ZM3-337-010		BELT,SBU MOT 2
24	82-ZM1-241-319		LVR,MC	57	82-ZM3-339-010		SHAFT,COUPLER N3(DECK 1)
25	82-ZM1-242-019		LVR,CAS	58	86-ZM1-206-010		BELT,MAIN L
26	82-ZM1-243-019		LVR,STOP	59	82-ZM3-340-010		SH,BELT D2
27	82-ZM1-344-110		LVR ASSY,PINCH R2	A	85-ZM3-202-010		S-SCREW,TG
28	82-ZM1-259-110		SPR-T,PINCH R	B	80-ZM6-207-019		V+1.6-7
29	82-ZM1-240-11K		LVR,REC (DECK 2)	C	82-ZM3-318-019		S-SCRW MOTOR M2
31	82-ZM1-255-319		SPR-E,LVR DIR	D	87-B10-043-010		W-P,0.99-4-0.25 SLT
32	82-ZM3-305-01K		GEAR,CAM M2	E	82-ZM3-334-010		PW,2.16-6-0.4
33	82-ZM1-227-21K		LVR,TRIG				
34	82-ZM3-306-11K		LVR,FR M2				
35	82-ZM1-265-119		SPR-E,TRIG				

SPRING APPLICATION POSITION



## SPEAKER EXPLODED VIEW 1 / 1 (SX-FNS36 → YJST)

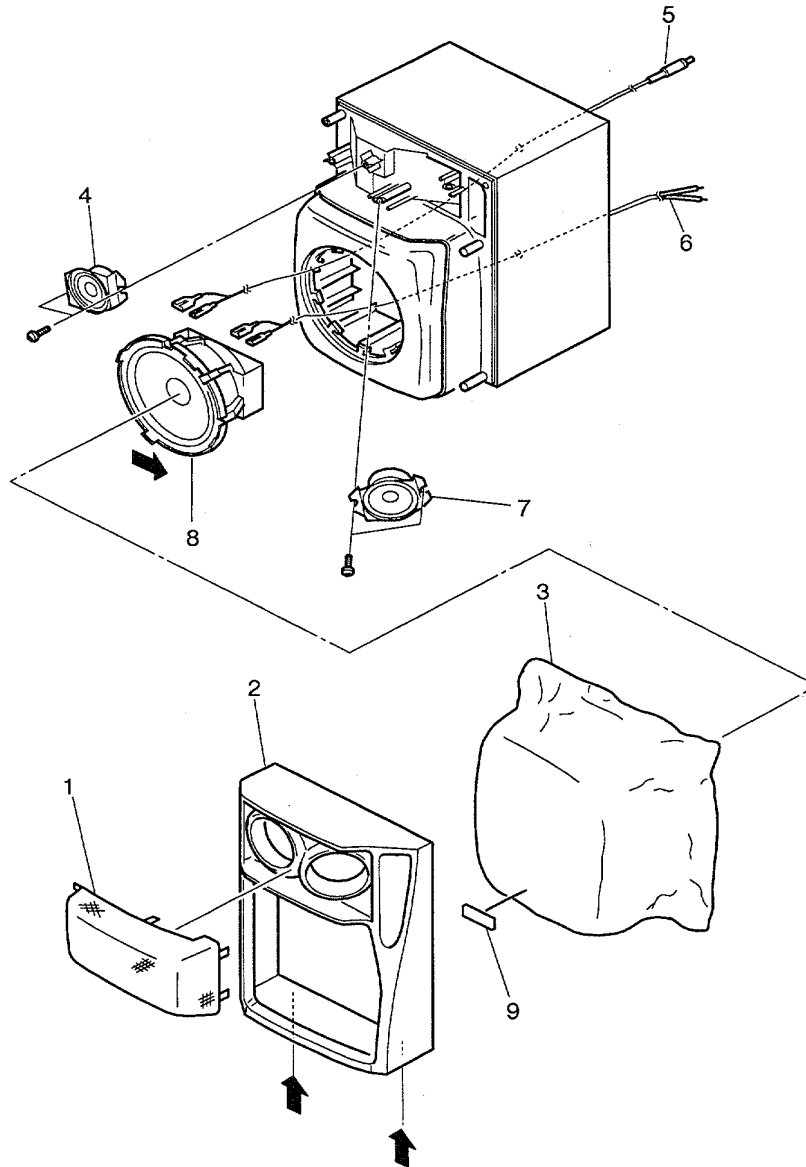
Insert a flat-bladed screwdriver into the position indicated by the arrows and remove the panel.

Remove the screws of each speaker unit and then remove the speaker units.

Insert a flat-bladed screwdriver into the position indicated by the arrows and remove the panel.

Turn the speaker unit to counterclockwise 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 unit "click" sound comes out.



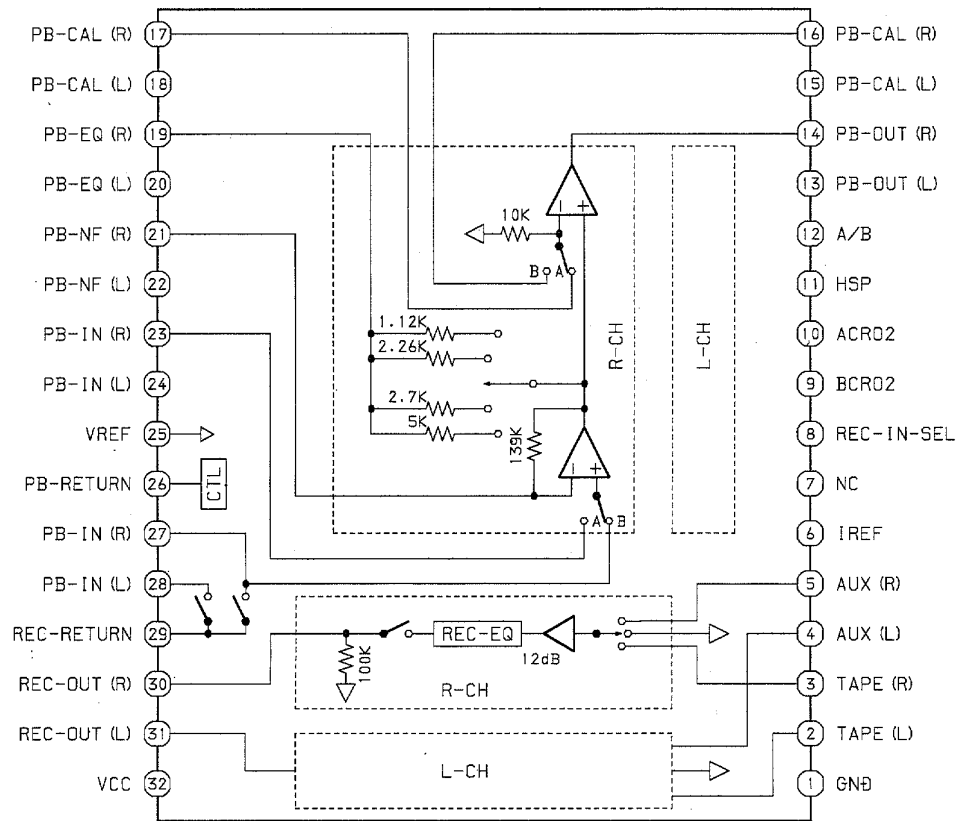
## SPEAKER PARTS LIST 1 / 1 (SX-FNS36 → YJST)

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

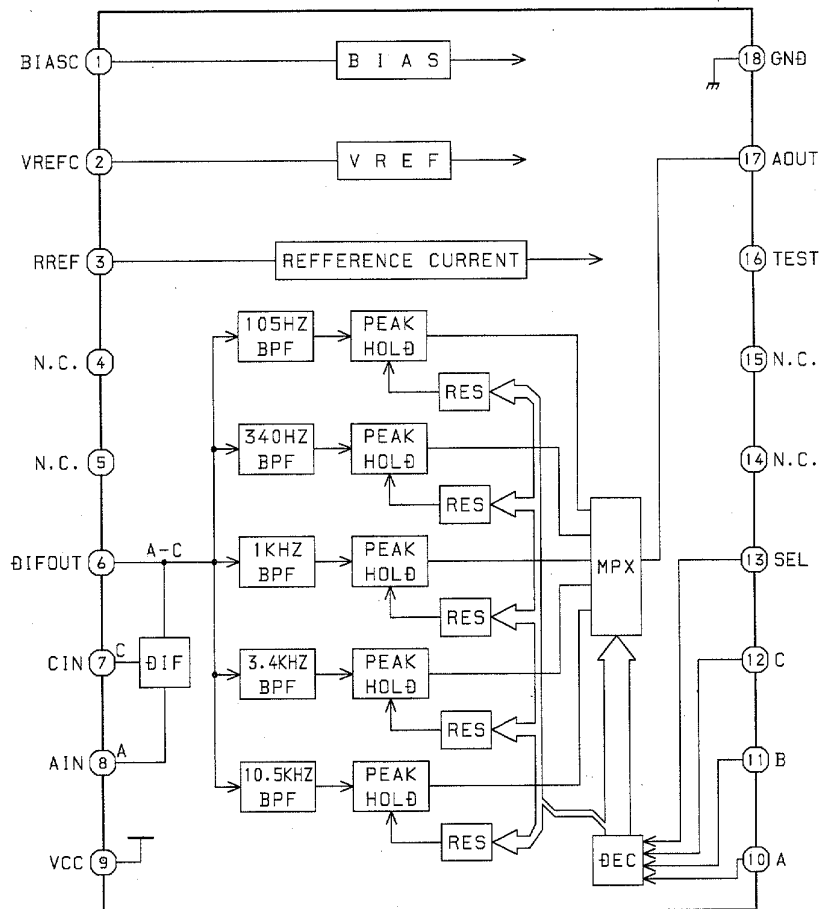
REF. NO	PART NO.	KANRI NO.	DESCRIPTION	REF. NO	PART NO.	KANRI NO.	DESCRIPTION
1	87-NS7-006-010		NET	6	87-NS7-614-010		SPKR, CORD (YLJSKM)
2	87-NS7-001-010		PANEL, FR R (EXCEPT YLJSKM)	7	87-NS7-606-010		SPKR, SU 60
2	87-NS7-002-010		PANEL, FR L (EXCEPT YLJSKM)	8	87-NS7-602-010		SPKR, W 140
2	87-NS7-016-010		PANEL, FR R ASSY (YLJKM)	9	86-NS5-012-010		BADGE, AIWA 35 (YLJSKM)
2	87-NS7-017-010		PANEL, FR L ASSY (YLJKM)	10	87-NS7-022-010		VTS2+3.5-12 (YLJSKM)
3	87-NS7-005-010		PROTECTOR, TW				
4	87-NS7-603-010		SPKR, T 60				
5	87-NS4-610-010		SPKR, CODE Y/B (EXCEPT YLJSKM)				
5	87-NS7-615-010		SPKR, CORD Y/B (YLJSLM)				
6	87-NS6-601-010		SPKR, CORD (EXCEPT YLJSKM)				

# IC BLOCK DIAGRAM

## IC, BA7762FS

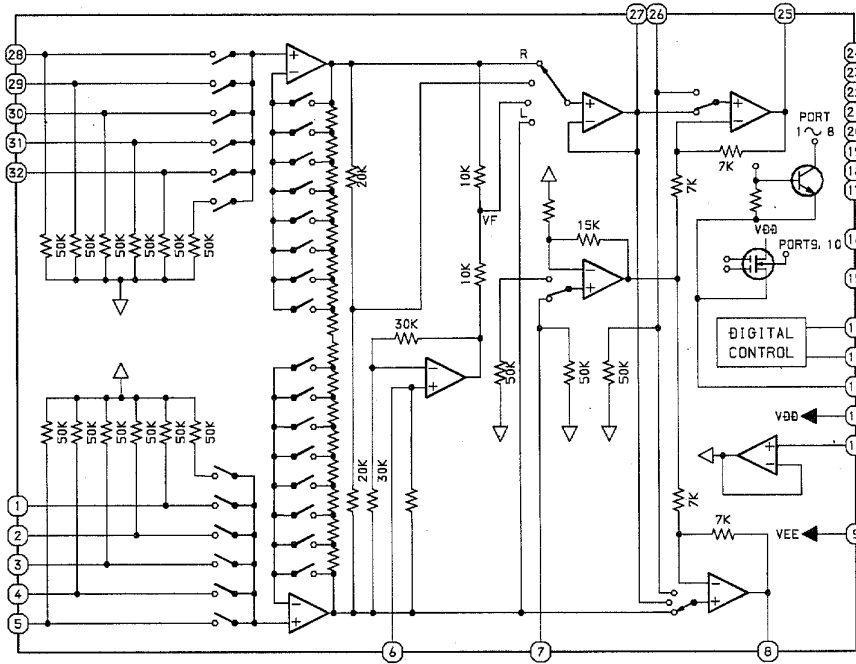


## IC, BA3835S

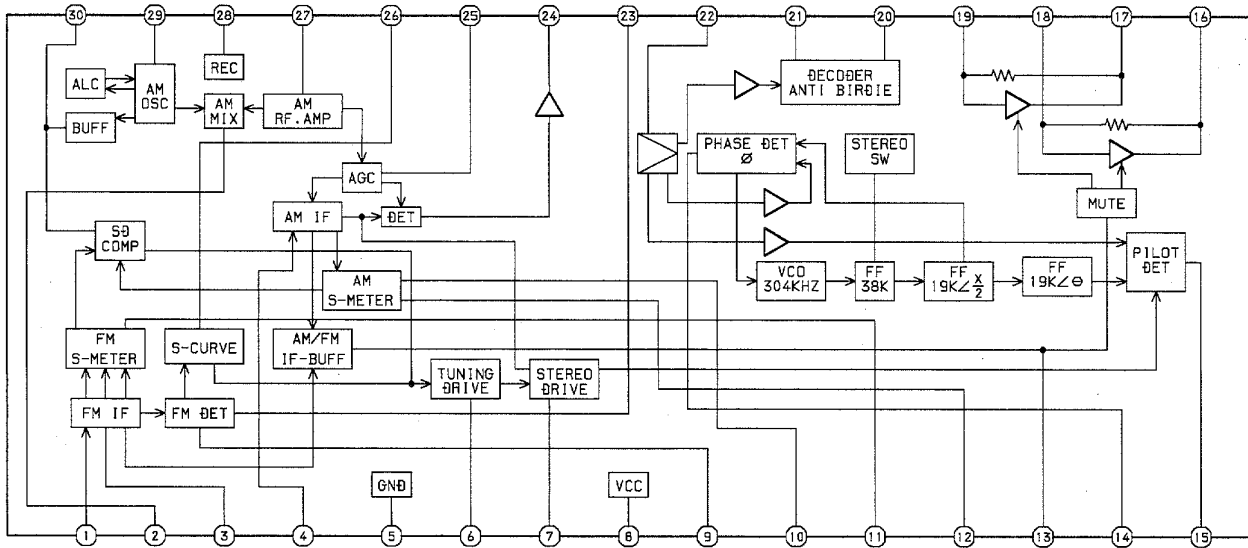




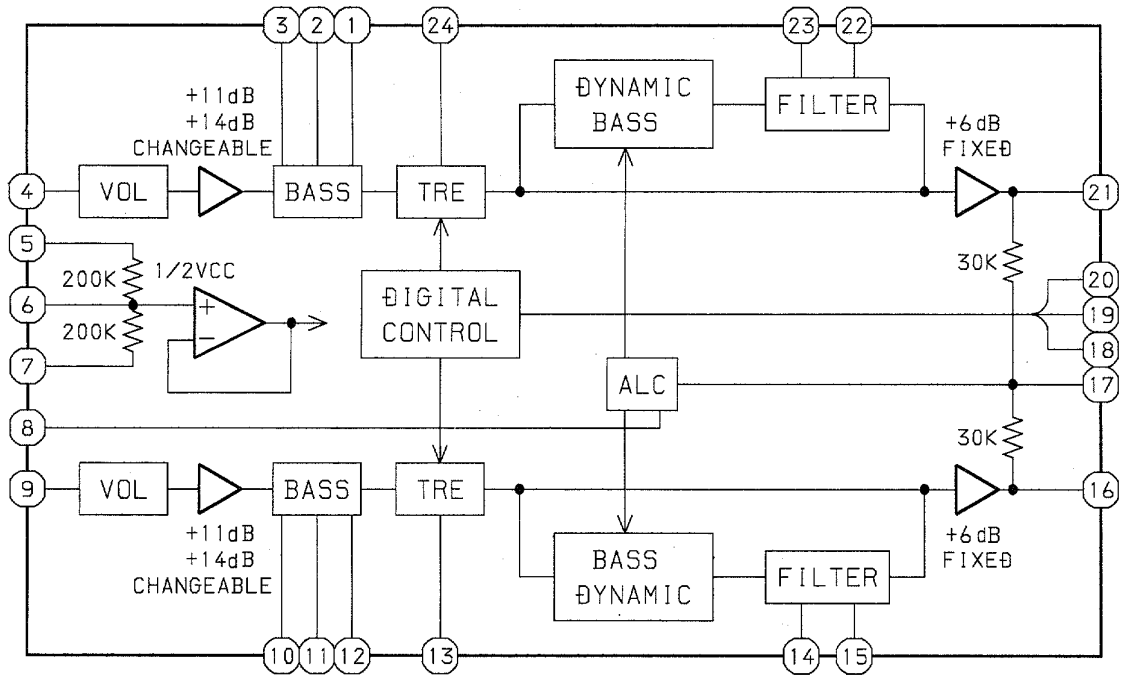
IC, BH3810FS



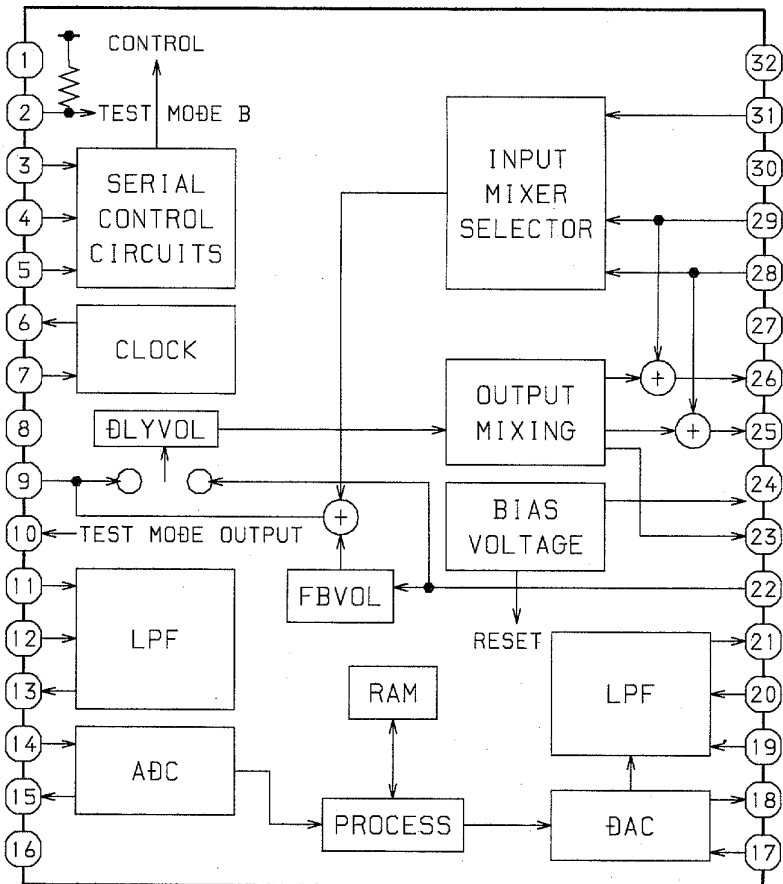
IC, LA1837

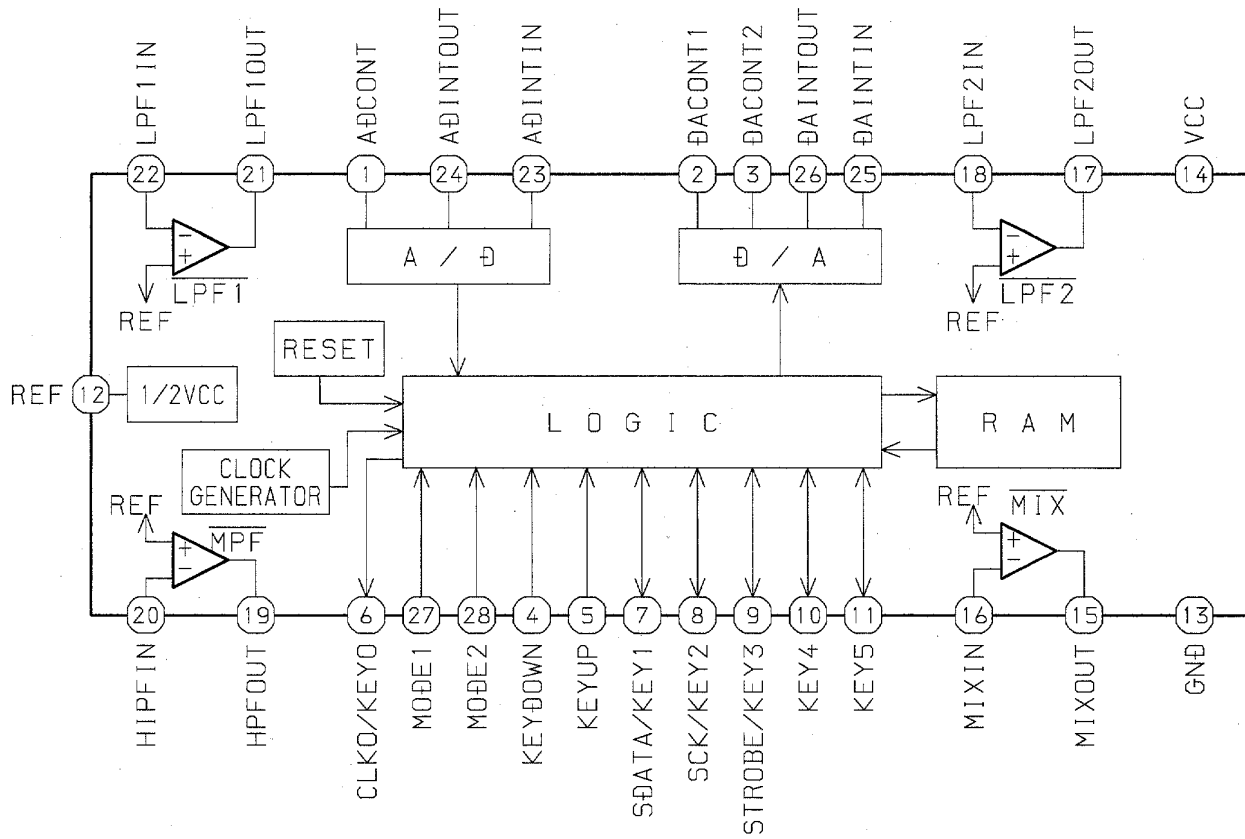


IC, BH3864F



IC, BU9262FS





# REFERENCE NAME LIST

## ELECTRICAL SECTION

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

## MECHANICAL SECTION

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

サービス技術ニュース	
番号	連絡内容
G-	-
G-	-
G-	-

**アイワ株式会社**  
**AIWA CO.,LTD.**

9301946, 750038

Tokyo Japan