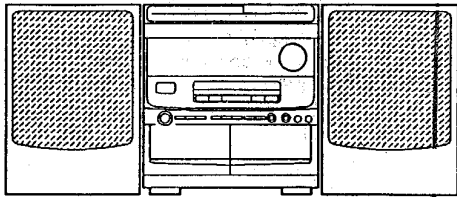


aiwa



NSX-V900



COMPACT DISC STEREO
CASSETTE RECEIVER

- BASIC TAPE MECHANISM : 2ZM-3MK2 PR4
- BASIC CD MECHANISM : 4ZG-1 BDNM

• TYPE : V

SYSTEM	CD - CASSEIVER	SPEAKER
NSX-V900	CX-NV900	SX-ANV900

If requiring information about the CD mechanism, see Service Manual of 4ZG-1,
S/M Code No. 09-965-128-10T.

SERVI CE
MANUAL

SPECIFICATIONS

<FM Tuner section>

Tuning range	FM1 (OIRT) 65 MHz to 74 MHz (10 kHz step) FM2 (CCIR) 87.5 MHz to 108 MHz (50 kHz step)
Usable sensitivity (IHF)	13.2 dBf
Antenna terminals	75 ohms (unbalanced)

<MW Tuner section>

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

<LW Tuner section>

Tuning range	144 kHz to 290 kHz
Usable sensitivity	1440 μ V/m
Antenna	Loop antenna

<Amplifier section>

Power output *	Rated : 120 W + 120 W (6 ohms, T.H.D. 1%, 1 kHz) Reference : 150 W + 150 W (6 ohms, T.H.D. 10%, 1 kHz)
Total harmonic distortion	0.1% (75 W, 1 kHz, 6 ohms, DIN AUDIO) * (without connecting to the SURROUND SPEAKERS)
Inputs	VIDEO/AUX : 150 mV (adjustable) MIC 1, MIC 2 : 1 mV (10 kohms)
Outputs	LINE OUT : 200 mV SUPER WOOFER : 3.0 V SPEAKERS: accept speakers of 6 ohms or more SURROUND SPEAKERS : accept speakers of 16 ohms or more PHONES (stereo jack) : accepts headphones of 32 ohms or more

<Cassette deck section>


Track format	4 tracks, 2 channels stereo
Frequency response	CrO ₂ tape : 50 Hz - 16000 Hz Normal tape : 50 Hz - 15000 Hz 60 dB (Dolby B NR ON, CrO ₂ tape peak level)
Signal-to-noise ratio	
Recording system	AC bias
Heads	Deck 1 : Playback head x1 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-ANV900>

Cabinet type	4 way, bass reflex with surround speaker (magnetic sealed type)
Speakers	Woofer : 140 mm (5 ⁵ / ₈ in.) cone type Mid-range : 80 mm (3 ¹ / ₄ in.) cone type Tweeter : 50 mm (2 in.) cone type Super tweeter : 20 mm (1 ³ / ₁₆ in.) ceramic type Surround speaker : 80 mm (3 ¹ / ₄ in.) 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)	235 x 310 x 270 mm
Weight	4.5 kg
<General>	
Power requirements	230 V AC, 50 Hz
Power consumption	150 W
Dimensions of main unit (W x H x D)	260 x 308 x 340 mm
Weight of main unit	8.9 kg

- 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.

ACCESSORIES / PACKAGE LIST

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

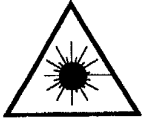
REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	86-NF4-909-019	IB, V-M	
2	85-NF5-633-019	RC-T501	
3	87-006-225-019	AM LOOP ANT NC2	
4	87-A90-064-019	FEEDER-ANT, FM(SHS)	

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!

Laitteen Käyttäminen muulla kuin tässä käyttöohjeessa mainituilla tavalla saattaa altistaa käyttäjän turvallisuusluokan 1 ylitävälle näkymättömälle lasersäteilylle.

WARNING!

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

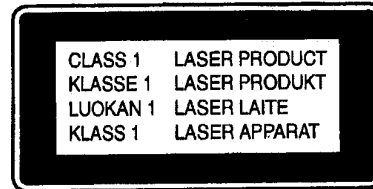
L'utilisation de commandes, réglages ou procédures autres que ceux spécifiés peut entraîner une dangereuse exposition aux radiations.

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.



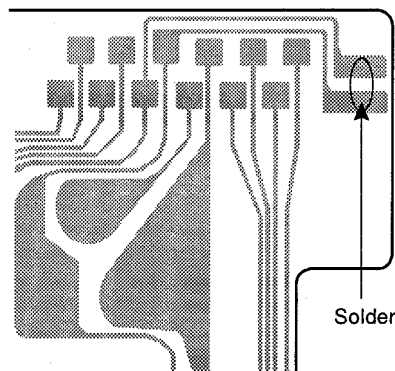
Precaution to replace Optical block

(KSS - 213B)

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

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

PICK-UP Assy P.C.B



ELECTRICAL MAIN PARTS LIST

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

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
IC				C101	87-016-657-099		CAP,E 3300-71
	87-020-454-010	IC, DN6851		C102	87-016-657-099		CAP,E 3300-71
	86-NF4-607-010	IC, LC866440W-5A39		C104	87-010-235-089		CAP,E 470-16 SME
	87-070-083-019	IC, GPU281X		C105	87-010-235-089		CAP,E 470-16 SME
	87-A20-191-019	IC, STK-419-140		C106	87-010-409-089		CAP,E 220-50 SME
	87-070-121-010	IC, HA12185NT		C107	87-010-247-089		CAP,E 100-50 SME
	87-070-232-019	IC, BA3834S		C108	87-010-247-089		CAP,E 100-50 SME
	87-017-375-089	IC, TC4094BF		C109	87-010-263-089		CAP,E 100-10 SME 5X11
	87-001-874-019	IC, HA12134A		C112	87-010-382-089		CAP,E 22-25 SME
	87-A20-107-019	IC, BA3836		C113	87-010-403-089		CAP,E 3.3-50 SME
	87-027-666-019	IC, TC4052BP		C116	87-012-140-089		C-CAP,S 470P-50 CH
	87-A20-056-019	IC, BA3880S		C121	87-012-368-089		C-CAP,S 0.1-50
	87-017-374-019	IC, TC4094BP		C122	87-012-368-089		C-CAP,S 0.1-50
	87-017-888-089	IC, NJM4558MD		C123	87-018-209-089		CAP,TC-U 0.1-50 F
	87-070-184-040	IC, M65846FP-600D		C124	87-012-368-089		C-CAP,S 0.1-50
	87-A20-069-049	C-IC, BA3842F		C145	87-018-133-089		CAP,TC-U 4700P-16X
	87-070-127-119	IC, LC72131		C146	87-018-133-089		CAP,TC-U 4700P-16X
	87-017-714-119	IC, LA1836		C152	87-010-260-089		CAP,E 47-25 SME
TRANSISTOR				C171	87-016-565-099		CAP,E 4700-25(JAM1)
	87-026-463-089	TR, 2SA933S(RS)		C172	87-016-565-099		CAP,E 4700-25(JAM1)
	89-213-702-019	TR, 2SB1370E		C173	87-010-196-089		C-CAP,S 0.1-25 F
	89-113-187-089	TR, 2SA1318TU		C174	87-010-196-089		C-CAP,S 0.1-25 F
	87-026-610-089	TR, KTC3198GR		C175	87-010-196-089		C-CAP,S 0.1-25 F
	89-332-665-089	TR, 2SC3266GR		C176	87-015-785-089		C-CAP,0.1-25 F
	89-337-221-389	C-TR, 2SC3722K		C220	87-010-194-089		C-CAP,S 0.047-25 F
	89-327-125-089	C-TR, 2SC2712GR		C221	87-010-401-089		CAP,E 1-50 SME
	89-111-625-089	C-TR, 2SA1162GR		C222	87-010-401-089		CAP,E 1-50 SME
	87-026-210-089	C-TR, DTC144EK T147		C223	87-010-187-089		C-CAP,S 5600P-50 B
	87-026-211-089	C-TR, DTA144EK T147		C224	87-010-187-089		C-CAP,S 5600P-50 B
	89-333-266-089	C-TR, 2SC3326B		C225	87-015-826-089		C-CAP,S 1200P-50 BK
	87-026-609-089	TR, KTA1266GR		C226	87-015-826-089		C-CAP,S 1200P-50 BK
	89-109-705-089	TR, 2SA970GR		C227	87-010-405-089		CAP,E 10-50 SME
	87-026-297-089	C-TR, DTA144TK		C228	87-010-405-089		CAP,E 10-50 SME
	87-026-226-089	C-TR, DTA143EK		C229	87-010-405-089		CAP,E 10-50 SME
	89-502-466-089	TR, FET 2SK246-BL (TPE2)		C230	87-010-405-089		CAP,E 10-50 SME
	89-112-965-089	TR, 2SA1296GR		C231	87-010-147-089		C-CAP,S 3P-50 CH
	87-026-228-089	C-TR, DTA124EK		C232	87-018-098-089		CAP,TC-U 3.3P-50 SL
	89-333-317-089	TR, 2SC3331T		C233	87-010-196-089		C-CAP,S 0.1-25 F
	89-109-521-089	TR, 2SA952K		C234	87-010-196-089		C-CAP,S 0.1-25 F
	87-a30-047-089	TR, CSD655E		C235	87-010-196-089		C-CAP,S 0.1-25 F
	87-026-238-089	C-TR, DTC144WK		C236	87-010-196-089		C-CAP,S 0.1-25 F
	87-026-214-089	TR, DTA114YS		C239	87-018-134-089		CAP,TC-U 0.01-16 Y
	89-327-143-089	C-TR, 2SC2714 (O)		C240	87-018-134-089		CAP,TC-U 0.01-16 Y
	87-026-213-089	C-TR, DTC114YK		C241	87-010-197-089		C-CAP,S 0.01-25 B
	89-505-434-549	C-FET, 2SK543(4/5)		C242	87-010-197-089		C-CAP,S 0.01-25 B
DIODE				C243	87-010-322-089		C-CAP,S 100P-50 CH
	87-A40-115-069	DIODE, RS603M		C244	87-010-322-089		C-CAP,S 100P-50 CH
	87-017-978-089	DIODE, 1N4003		C245	87-010-318-089		C-CAP,S 47P-50 CH
	87-020-027-089	C-DIODE, 1SS184		C246	87-010-293-089		C-CAP 47P-50CH
	87-020-125-089	C-DIODE, 1SS181		C249	87-018-209-089		CAP,TC-U 0.1-50F
	87-017-437-089	DIODE, 1N4148M		C250	87-A10-200-080		CAP,E 10-100 BP
	87-017-174-089	ZENER, HZS11A3L		C260	87-015-785-089		C-CAP,0.1-25 F
	87-017-147-089	ZENER, HZS33-2		C301	87-010-318-089		C-CAP,S 47P-50 CH
	87-017-127-089	ZENER, HZS11C1		C302	87-010-318-089		C-CAP,S 47P-50 CH
	87-A40-183-080	DIODE, RK36(F)		C303	87-012-157-089		C-CAP,S 330P-50 CH
	87-A40-199-089	ZENER, UZL6HZ2		C304	87-012-157-089		C-CAP,S 330P-50 CH
	87-A40-202-089	ZENER, UZ5.1BSB		C305	87-012-145-089		C-CAP S 270P-50CH
	87-020-331-089	C-DIODE, DAN202K		C306	87-012-145-089		C-CAP S 270P-50CH
	87-020-330-088	C-DIODE, DAP202K		C307	87-010-196-089		C-CAP,S 0.1-25 F
	87-A40-198-089	ZENER, UZL6M1		C311	87-010-198-089		C-CAP,S 0.022-25 B
	87-017-148-089	ZENER, HZS6A1L		C312	87-010-198-089		C-CAP,S 0.022-25 B
				C313	87-010-181-089		C-CAP,S 1800P-50 B
				C314	87-010-181-089		C-CAP,S 1800P-50 B
				C315	87-010-179-089		C-CAP,S 1200P-50 B
				C316	87-010-179-089		C-CAP,S 1200P-50 B
				C317	87-012-142-089		C-CAP,S 0.33-16 F
				C318	87-012-142-089		C-CAP,S 0.33-16 F
				C319	87-012-141-089		C-CAP,S 0.22-16 F
				C320	87-012-141-089		C-CAP,S 0.22-16 F
				C321	87-010-196-089		C-CAP,S 0.1-25 F

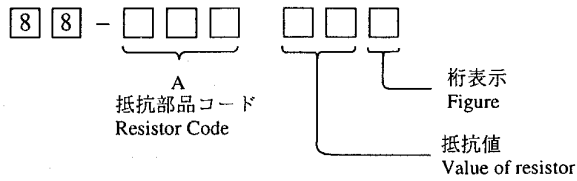
MAIN C.B

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
C322	87-010-196-089		C-CAP,S 0.1-25 F	C606	87-010-101-089		CAP,E 220-16 SME
C324	87-010-260-089		CAP,E 47-25 SME	C607	87-010-188-089		C-CAP,S 6800P-50 B
C325	87-010-370-089		CAP,E 330-6.3 SME	C608	87-010-188-089		C-CAP,S 6800P-50 B
C326	87-010-196-089		C-CAP,S 0.1-25 F	C609	87-018-127-089		CAP,TC-U 470P-50 B
C330	87-010-401-089		CAP,E 1-50 SME	C610	87-018-127-089		CAP,TC-U 470P-50 B
C332	87-015-785-089		C-CAP,0.1-25 F	C611	87-010-197-089		C-CAP,S 0.01-25 B
C335	87-010-805-089		C-CAP,S 1-16F	C612	87-010-197-089		C-CAP,S 0.01-25 B
C336	87-010-805-089		C-CAP,S 1-16F	C613	87-010-195-089		C-CAP,S 0.068-25 F
C337	87-010-196-089		C-CAP,S 0.1-25 F	C614	87-010-195-089		C-CAP,S 0.068-25 F
C338	87-010-196-089		C-CAP,S 0.1-25 F	C615	87-010-404-089		CAP,E 4.7-50 SME
C339	87-010-196-089		C-CAP,S 0.1-25 F	C616	87-010-404-089		CAP,E 4.7-50 SME
C340	87-015-785-089		C-CAP,0.1-25 F	C617	87-010-404-089		CAP,E 4.7-50 SME
C351	87-012-154-089		C-CAP,S 150P-50 CH	C618	87-010-404-089		CAP,E 4.7-50 SME
C352	87-012-154-089		C-CAP,S 150P-50 CH	C620	87-018-209-089		CAP,TC-U 0.1-50 F
C451	87-012-140-089		C-CAP,S 470P-50 CH	C641	87-010-196-089		C-CAP,S 0.1-25 F
C452	87-012-140-089		C-CAP,S 470P-50 CH	C642	87-010-196-089		C-CAP,S 0.1-25 F
C453	87-010-178-089		C-CAP,S 1000P-50 B	C673	87-010-316-089		C-CAP,S 33P-50 CH
C454	87-010-175-089		C-CAP,S 560P-50 SL	C674	87-010-316-089		C-CAP,S 33P-50 CH
C455	87-010-178-089		C-CAP,S 1000P-50 B	C675	87-010-318-089		C-CAP,S 47P-50 CH
C456	87-010-260-089		CAP,E 47-25 SME	C676	87-010-318-089		C-CAP,S 47P-50 CH
C457	87-010-197-089		C-CAP,S 0.01-25 B	C701	87-010-381-089		CAP,E 330-16 SME
C458	87-010-183-089		C-CAP,S 2700P-50 B	C702	87-010-404-089		CAP,E 4.7-50 SME
C459	87-010-183-089		C-CAP,S 2700P-50 B	C703	87-010-197-089		C-CAP,S 0.01-25 B
C460	87-010-183-089		C-CAP,S 2700P-50 B	C704	87-010-197-089		C-CAP,S 0.01-25 B
C470	87-010-196-089		C-CAP,S 0.1-25 F	C711	87-010-263-089		CAP,E 100-10 SME 5X11
C501	87-010-179-089		C-CAP,S 1200P-50 B	C712	87-010-196-089		C-CAP,S 0.1-25 F
C502	87-010-179-089		C-CAP,S 1200P-50 B	C722	87-010-152-089		C-CAP,S 8P-50 CH
C503	87-012-155-089		C-CAP,S 180P-50 CH	C723	87-010-178-089		C-CAP,S 1000P-50 B
C504	87-012-155-089		C-CAP,S 180P-50 CH	C725	87-010-178-089		C-CAP,S 1000P-50 B
C515	87-010-545-089		CAP,E 0.22-50 SME	C727	87-010-196-089		C-CAP,S 0.1-25 F
C516	87-010-545-089		CAP,E 0.22-50 SME	C728	87-010-248-089		CAP,E 220-10 SME
C519	87-015-785-089		C-CAP,0.1-25 F	C770	87-010-405-089		CAP,E 10-50 SME
C521	87-010-197-089		C-CAP,S 0.01-25 B	C771	87-010-405-089		CAP,E 10-50 SME
C522	87-010-318-089		C-CAP,S 47P-50 CH	C772	87-010-194-089		C-CAP,S 0.047-25 F
C523	87-010-197-089		C-CAP,S 0.01-25 B	C773	87-015-785-089		C-CAP,0.1-25 F
C524	87-010-402-089		CAP,E 2.2-50 SME	C774	87-010-263-089		CAP,E 100-10 SME 5X11
C525	87-010-184-089		C-CAP,S 3300P-50 B	C775	87-010-405-089		CAP,E 10-50 SME
C526	87-010-196-089		C-CAP,S 0.1-25 F	C776	87-010-197-089		C-CAP,S 0.01-25 B
C527	87-010-401-089		CAP,E 1-50 SME	C777	87-010-400-089		CAP,E 0.47-50 SME
C528	87-010-401-089		CAP,E 1-50 SME	C778	87-010-401-089		CAP,E 1-50 SME
C529	87-010-384-089		CAP,E 100-25 SME	C779	87-010-401-089		CAP,E 1-50 SME
C530	87-010-197-089		C-CAP,S 0.01-25 B	C780	87-010-197-089		C-CAP,S 0.01-25 B
C531	87-010-183-089		C-CAP,S 2700P-50 B	C781	87-010-405-089		CAP,E 10-50 SME
C532	87-010-194-089		C-CAP,S 0.047-25 F	C782	87-010-405-089		CAP,E 10-50 SME
C533	87-010-196-089		C-CAP,S 0.1-25 F	C785	87-010-197-089		C-CAP,S 0.01-25 B
C534	87-010-263-089		CAP,E 100-10 SME 5X11	C787	87-010-184-089		C-CAP,S 3300P-50 B
C535	87-010-401-089		CAP,E 1-50 SME	C788	87-010-184-089		C-CAP,S 3300P-50 B
C536	87-010-401-089		CAP,E 1-50 SME	C789	87-015-826-089		C-CAP,1200-50 B K
C537	87-010-545-089		CAP,E 0.22-50 SME	C790	87-010-179-089		C-CAP,S 1200P-50 B
C540	87-010-196-089		C-CAP,S 0.1-25 F	C791	87-010-401-089		CAP,E 1-50 SME
C541	87-010-196-089		C-CAP,S 0.1-25 F	C792	87-010-182-089		C-CAP,S 2200P-50 B
C542	87-010-405-089		CAP,E 10-50 SME	C793	87-010-189-089		C-CAP,S 8200P-50 B
C543	87-010-546-089		CAP,E 0.33-50 SME	C794	87-010-408-089		CAP,E 47-50 SME
C544	87-010-546-089		CAP,E 0.33-50 SME	C795	87-010-194-089		C-CAP,S 0.047-25 F
C545	87-010-400-089		CAP,E 0.47-50 SME	C796	87-010-403-089		CAP,E 3.3-50 SME
C546	87-010-400-089		CAP,E 0.47-50 SME	C799	87-010-178-089		C-CAP,S 1000P-50 B
C547	87-015-632-089		C-CAP,0.015-50 BK	C802	87-010-197-089		C-CAP,S 0.01-25 B
C548	87-015-632-089		C-CAP,0.015-50 BK	C814	87-010-196-089		C-CAP,S 0.1-25 F
C550	87-018-208-089		CAP,TC-U 0.047-50	C817	87-010-197-089		C-CAP,S 0.01-25 B
C553	87-015-627-089		C-CAP,1000P-50 B	C818	87-010-197-089		C-CAP,S 0.01-25 B
C554	87-015-627-089		C-CAP,1000P-50 B	C819	87-010-197-089		C-CAP,S 0.01-25 B
C557	87-010-178-089		C-CAP,S 1000P-50 B	C820	87-010-408-089		CAP,E 47-50 SME
C558	87-010-178-089		C-CAP,S 1000P-50 B	C821	87-010-197-089		C-CAP,S 0.01-25 B
C597	87-010-404-089		CAP,E 4.7-50 SME	C823	87-010-197-089		C-CAP,S 0.01-25 B
C598	87-010-404-089		CAP,E 4.7-50 SME	C828	87-010-197-089		C-CAP,S 0.01-25 B
C601	87-010-178-089		C-CAP,S 1000P-50 B	C829	87-010-197-089		C-CAP,S 0.01-25 B
C602	87-010-178-089		C-CAP,S 1000P-50 B	C830	87-015-819-089		CHIP CAP 0.01
C603	87-010-405-089		CAP,E 10-50 SME	C835	87-010-197-089		C-CAP,S 0.01-25 B
C604	87-010-405-089		CAP,E 10-50 SME	C901	87-010-197-089		C-CAP,S 0.01-25 B
C605	87-010-260-089		CAP,E 47-25 SME	C902	87-010-196-089		C-CAP,S 0.1-25 F

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
C903	87-018-119-089		CAP,TC-U 100P-50B	FRONT C.B			
C942	87-010-154-089		C-CAP,S 10P-50 CH	C201	87-010-497-049		CAP,E 4.7-35 GAS
C946	87-010-401-089		CAP,E 1-50 SME	C202	87-010-497-049		CAP,E 4.7-35 GAS
C949	87-014-049-089		CAP,PP 470P-100 J	C203	87-010-281-049		CAP,E 22-35 5L
C952	87-010-197-089		C-CAP,S 0.01-25 B	C204	87-010-494-049		CAP,E 1-50 GAS
C957	87-010-315-089		C-CAP,S 27P-50 CH	C205	87-010-263-049		CAP,E 100-10
C958	87-010-197-089		C-CAP,S 0.01-25 B	C206	87-010-550-049		CAP,E 100-6.3 GAS
C960	87-010-196-089		C-CAP,S 0.1-25 F	C207	87-010-494-049		CAP,E 1-50 GAS
C987	87-018-134-089		CAP,TC-U 0.01-16 Y	C208	87-018-209-089		CAP,TC-U 0.1-50 F
C988	87-018-134-089		CAP,TC-U 0.01-16 Y	C209	87-010-550-049		CAP,E 100-6.3 GAS
C990	87-010-197-089		C-CAP,S 0.01-25 B	C212	87-010-560-049		CAP,E 10-50 GAS
C993	87-018-134-089		CAP,TC-U 0.01-16 Y	C213	87-010-196-089		C-CAP,S 0.1-25 F
C995	87-010-197-089		C-CAP,S 0.01-25 B	C214	87-010-196-089		C-CAP,S 0.1-25 F
C999	87-010-196-089		C-CAP,S 0.1-25 F	C215	87-010-196-089		C-CAP,S 0.1-25 F
CF801	87-008-423-019		CF,SFE10.7MS3G-A	C221	87-010-154-089		C-CAP,S 10P-50 CH
CF802	82-785-747-019		CF,MS2 GHY,R	C222	87-010-314-089		C-CAP,S 22P-50 CH
FFE801	A8-6ZA-193-039		6ZA-1 FEVNM	C223	87-010-178-089		C-CAP,S 1000P-50 B
J252	87-099-678-019		JACK 6.3W/S BLK	C250	87-010-178-089		C-CAP,S 1000P-50 B
J253	87-099-802-019		JACK,PIN 3P BRW	C251	87-010-196-089		C-CAP,S 0.1-25 F
J254	87-A60-238-019		TERMINAL,SP 4P(MSC)	C381	87-010-196-089		C-CAP,S 0.1-25 F
J652	87-099-625-019		JACK PIN 4P,RVS (KM)	C382	87-010-196-089		C-CAP,S 0.1-25 F
J653	87-099-625-019		JACK PIN 4P,RVS (KM)	C383	87-010-196-089		C-CAP,S 0.1-25 F
J801	87-A60-202-019		TERMINAL,ANT 4PHSP-154V-02	C384	87-010-196-089		C-CAP,S 0.1-25 F
L101	87-003-383-019		COIL,LUH-S	C385	87-010-322-089		C-CAP,S 100P-50 CH
L102	87-003-383-019		COIL,LUH-S	C389	87-010-196-089		C-CAP,S 0.1-25 F
L403	87-A50-049-019		COIL,TRAP 85KHZ	C401	87-010-196-089		C-CAP,S 0.1-25 F
L404	87-A50-049-019		COIL,TRAP 85KHZ	C402	87-010-196-089		C-CAP,S 0.1-25 F
L451	87-007-342-019		COIL,OSC 85K BIAS	C403	87-010-196-089		C-CAP,S 0.1-25 F
L701	87-A50-027-019		COIL,1 POLE MPX(TOK)	C404	87-018-209-089		CAP,TC-U 0.1-50 F
L702	87-A50-027-019		COIL,1 POLE MPX(TOK)	C501	87-010-060-049		CAP,E 100-16 7L
L741	87-A50-015-019		COIL,FM DET(TOK)	C601	87-010-405-049		CAP,E 10-50 SME
L742	87-A90-051-019		FLTR,CFAZ-450(TOK)	C602	87-010-176-089		C-CAP,S 680P-50 SL
L743	87-005-564-089		C-COIL,2.2UH	C603	87-010-186-089		C-CAP,S 4700P-50 B
L770	87-003-102-089		COIL,10UH	C604	87-010-322-089		C-CAP,S 100P-50 CH
L832	87-005-847-089		COIL,2.2UH(CECS)	C605	87-010-321-089		C-CAP,S 82P-50 CH
L941	87-A50-020-019		COIL,ANT LW(COI)	C606	87-010-401-049		CAP,E 1-50 SME
L942	87-A50-019-019		COIL,OSC LW(COI)	C607	87-010-196-089		C-CAP,S 0.1-25 F
L981	86-NF4-665-019		AM PACK 1(TOK)	C608	87-010-322-089		C-CAP,S 100P-50 CH
PR110	87-026-689-089		PROTECTOR 1A 60V 491	C609	87-010-491-049		CAP E 0.22-50 5L
PR113	87-026-681-089		PROTECTOR 5A 60V 491	C610	87-010-177-089		C-CAP,S 820P-50 SL
PR114	87-026-681-089		PROTECTOR 5A 60V 491	C611	87-010-406-049		CAP,E 22-50 SME
R100	87-029-060-089		RES,FUSE 33-1/4WJ	C612	87-010-196-089		C-CAP,S 0.1-25 F
R101	87-029-060-089		RES,FUSE 33-1/4WJ	C614	87-A10-189-049		CAP,E 220-10
R105	87-022-600-089		RES,M/F 0.1-2W J	C615	87-010-560-049		CAP,E 10-50 GAS
R106	87-022-600-089		RES,M/F 0.1-2W J	C646	87-010-196-089		C-CAP,S 0.1-25 F
R251	87-A00-116-089		RES,220-1/2WJ RDS50	CON501	87-099-032-019		CONN,15P 6216 H
R252	87-A00-116-089		RES,220-1/2WJ RDS50	FB601	87-008-474-089		F-BEAD,EMI BL02RNI
R253	87-A00-116-089		RES,220-1/2WJ RDS50	FL101	86-NF4-606-019		FL,BJ453GK
R254	87-A00-116-089		RES,220-1/2WJ RDS50	J601	82-NF7-630-019		JACK,3.5 MO
RY101	87-045-361-019		RELAY,DH12D2-OS(M)-2	J621	82-NF7-630-019		JACK,3.5 MO
RY102	87-045-382-019		RELAY,OUAZ-SH-112L	L202	87-A50-052-019		COIL,CLOCK 5.76MHZ
SFR301	87-024-355-089		SFR,33K DIA6 H	LED401	87-070-281-089		LED,SLZ736A-25-S-T
SFR302	87-024-355-089		SFR,33K DIA6 H	LED402	87-070-281-089		LED,SLZ736A-25-S-T
SFR303	87-024-355-089		SFR,33K DIA6 H	LED403	87-070-281-089		LED,SLZ736A-25-S-T
SFR304	87-024-355-089		SFR,33K DIA6 H	LED404	87-070-281-089		LED,SLZ736A-25-S-T
SFR305	87-024-356-089		SFR,47K DIA6 H	LED405	87-070-281-089		LED,SLZ736A-25-S-T
SFR306	87-024-356-089		SFR,47K DIA6 H	LED407	87-070-199-089		LED,SLP738F-81-S-T1
SFR451	87-024-356-089		SFR,47K DIA6 H	LED408	87-070-199-089		LED,SLP738F-81-S-T1
SFR452	87-024-356-089		SFR,47K DIA6 H	LED409	87-070-199-089		LED,SLP738F-81-S-T1
SFR722	87-024-352-089		SFR,4.7K DIA6 H	LED410	87-070-199-089		LED,SLP738F-81-S-T1
TC701	87-011-253-089		TRIMER,30P LAR	LED411	87-070-199-089		LED,SLP738F-81-S-T1
TC942	87-011-253-089		TRIMER,30P LAR	LED412	87-070-199-089		LED,SLP738F-81-S-T1
TH241	87-A90-157-089		C-THMS,4.7K	LED413	87-070-199-089		LED,SLP738F-81-S-T1
VR651	87-A90-153-019		VR,RTRY 50KBX2	LED414	87-070-199-089		LED,SLP738F-81-S-T1
WL01	85-NF5-628-019		F-CABLE 7P-2.5	LED420	87-070-201-089		LED,SLP9118C-51-S-T1
W604	85-NF5-617-019		CABLE,FFC 6P-1.25	LED421	87-070-201-089		LED,SLP9118C-51-S-T1
X703	84-508-618-019		VIB,CER CSB 456 F/5	LED422	87-070-201-089		LED,SLP9118C-51-S-T1
X721	87-030-372-019		VIB,XTAL 7.2MHZ	LED423	87-070-201-089		LED,SLP9118C-51-S-T1
				LED437	87-070-278-019		LED,SLZ-738A-24-S

○ 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

2SA1296
2SC3266
KTA1266
KTC3198



E C B

2SA952
2SA970
CSD655



E C B

DTA114
2SA933



E C B

2SA1318
2SC3331



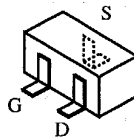
B C E

2SB1370

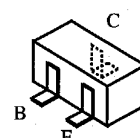


S G D

2SK246



2SK543

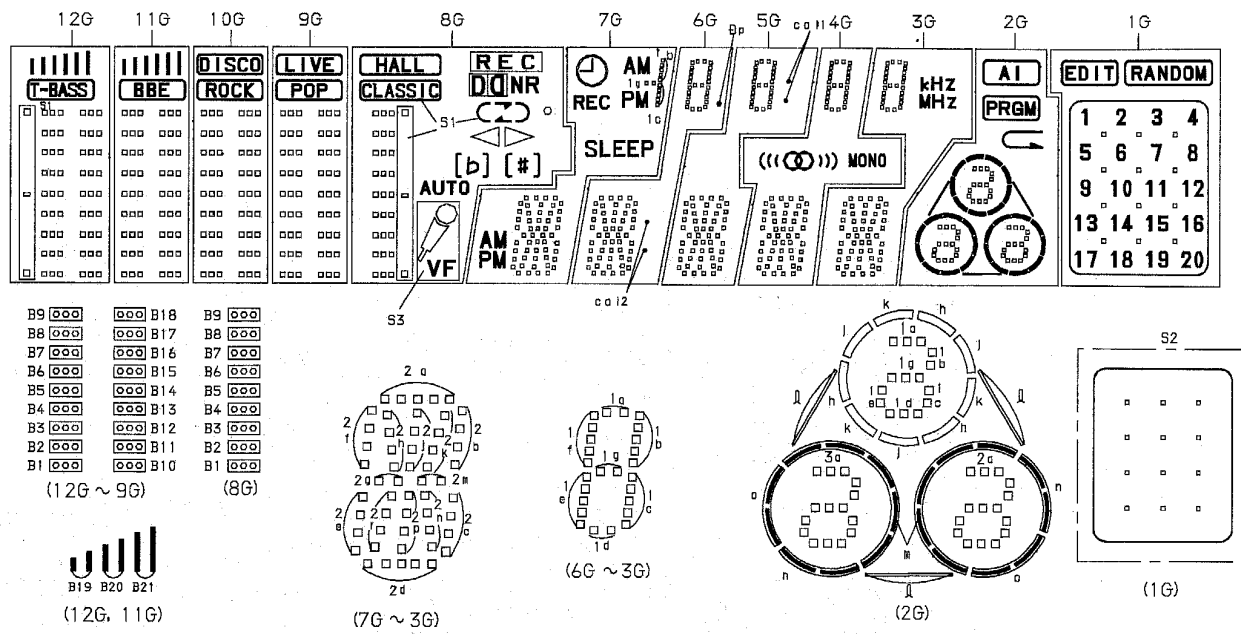


2SA1162
2SC2712
2SC2714
2SC3722
2SC3326

DTA144
DTA143
DTA124
DTC144
DTC144

FL GRID ASSIGNMENT & ANODE CONNECTION

FL, BJ453GK
GRID ASSIGNMENT



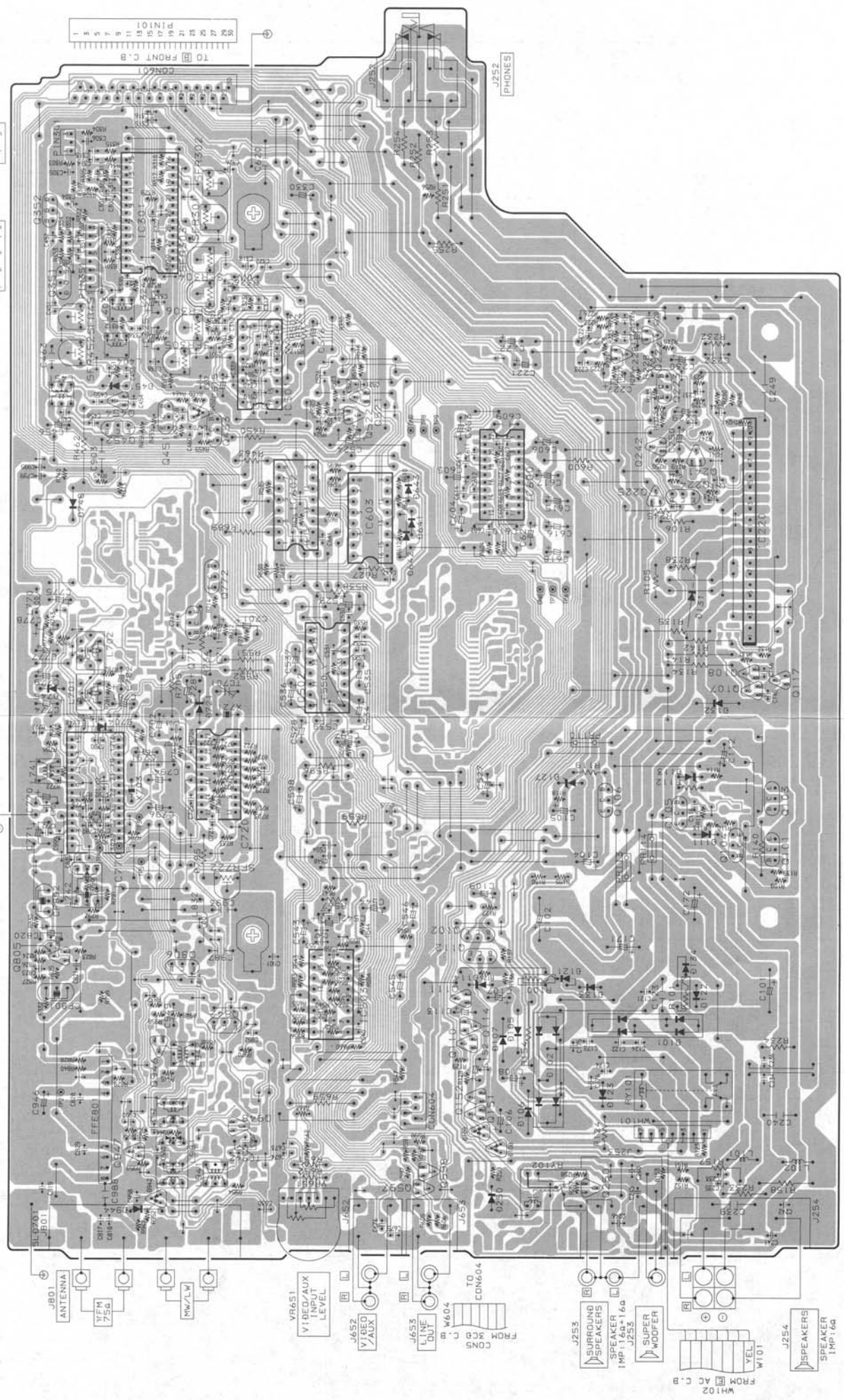
ANODE CONNECTION

	12G	11G	10G	9G	8G	7G	6G	5G	4G	3G	2G	1G
P1	B10	B10	B10	B10	S3	2d	2d	2d	2d	2d	n	20
P2	B1	B1	B1	B1	B1	2j, 2p	2j, 2p	2j, 2p	2j, 2p	2j, 2p	o	19
P3	B11	B11	B11	B11	AUTO	2n	2n	2n	2n	2n	3e	18
P4	B2	B2	B2	B2	B2	2r	2r	2r	2r	2r	3c	17
P5	B12	B12	B12	B12	(b)	2c	2c	2c	2c	2c	3a, 3d, 3g	16
P6	B3	B3	B3	B3	B3	2e	2e	2e	2e	2e	3b	15
P7	B13	B13	B13	B13	(#)	2m	2m	2m	2m	2m	2e	14
P8	B4	B4	B4	B4	B4	2g	2g	2g	2g	2g	2c	13
P9	B5	B5	B5	B5	B5	2f	2f	2f	2f	2f	2a, 2d, 2g	12
P10	B15	B15	B15	B15	▷	2b	2b	2b	2b	2b	l	11
P11	B6	B6	B6	B6	B6	2k	2k	2k	2k	2k	j	10
P12	B16	B16	B16	B16	◁	2h	2h	2h	2h	2h	h	9
P13	B7	B7	B7	B7	B7	2a	2a	2a	2a	2a	k	8
P14	B14	B14	B14	B14	∪	PM [DOWN]	co 1 2	col 1 [UP]	MONO	KHZ	2b	7
P15	B17	B17	B17	B17	∩	AM [DOWN]	θp	col 1 [DOWN]	((()))	MHZ	1e	6
P16	B8	B8	B8	B8	B8	SLEEP	1d	1d	1d	1d	1a, 1d, 1g	5
P17	B18	B18	B18	B18	o	REC	1e	1e	1e	1e	1c	4
P18	B9	B9	B9	B9	B9	PM [UP]	1c	1c	1c	1c	1b	3
P19	B19	B19	(ROCK)	(POP)	(DNR)	AM [UP]	1g	1g	1g	1g	m	2
P20	B20	B20	(DISCO)	(LIVE)	(REC)	1g	1f	1f	1f	1f	(AI)	1
P21	B21	B21	-	-	(CLASSIC)	1b, 1c	1b	1b	1b	1b	(PRGM)	(EDIT)
P22	-	-	-	-	(HALL)	1a	1a	1a	1a	1a	(PRGM)	(RANDOM)
P23	S1 (T-BASS)	-	(ROCK)	(POP)	(DNR)	AM [UP]	1g	1g	1g	1g	m	2
P24	-	(BBE)	-	-	-	-	-	-	-	-	-	-
P25	-	-	(DISCO)	(LIVE)	(HALL)	-	-	-	-	-	-	-
P26	-	-	-	-	b #	-	-	-	-	-	-	-

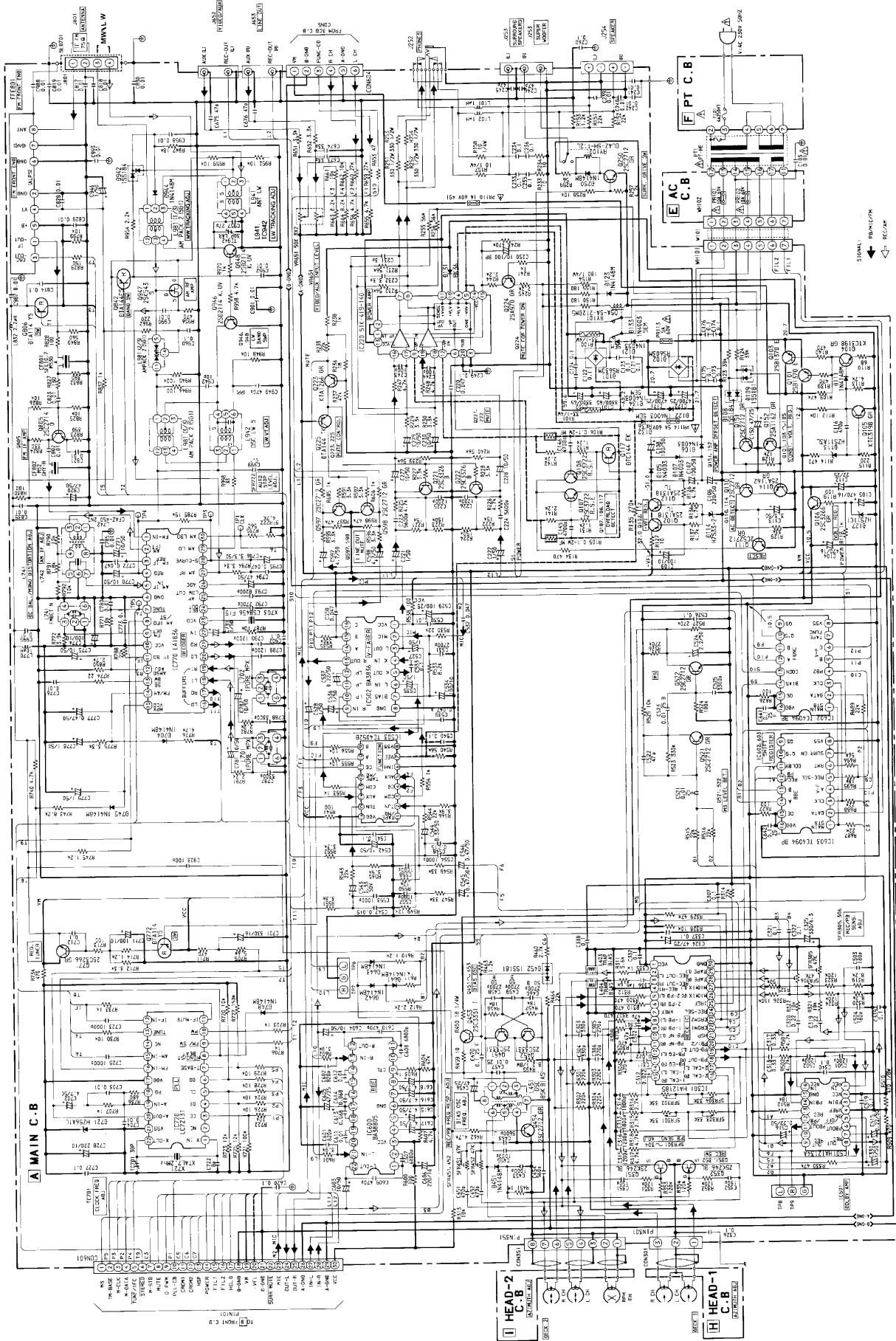
1 2 3 4 5 6 7 8 9 10 11 12 13 14

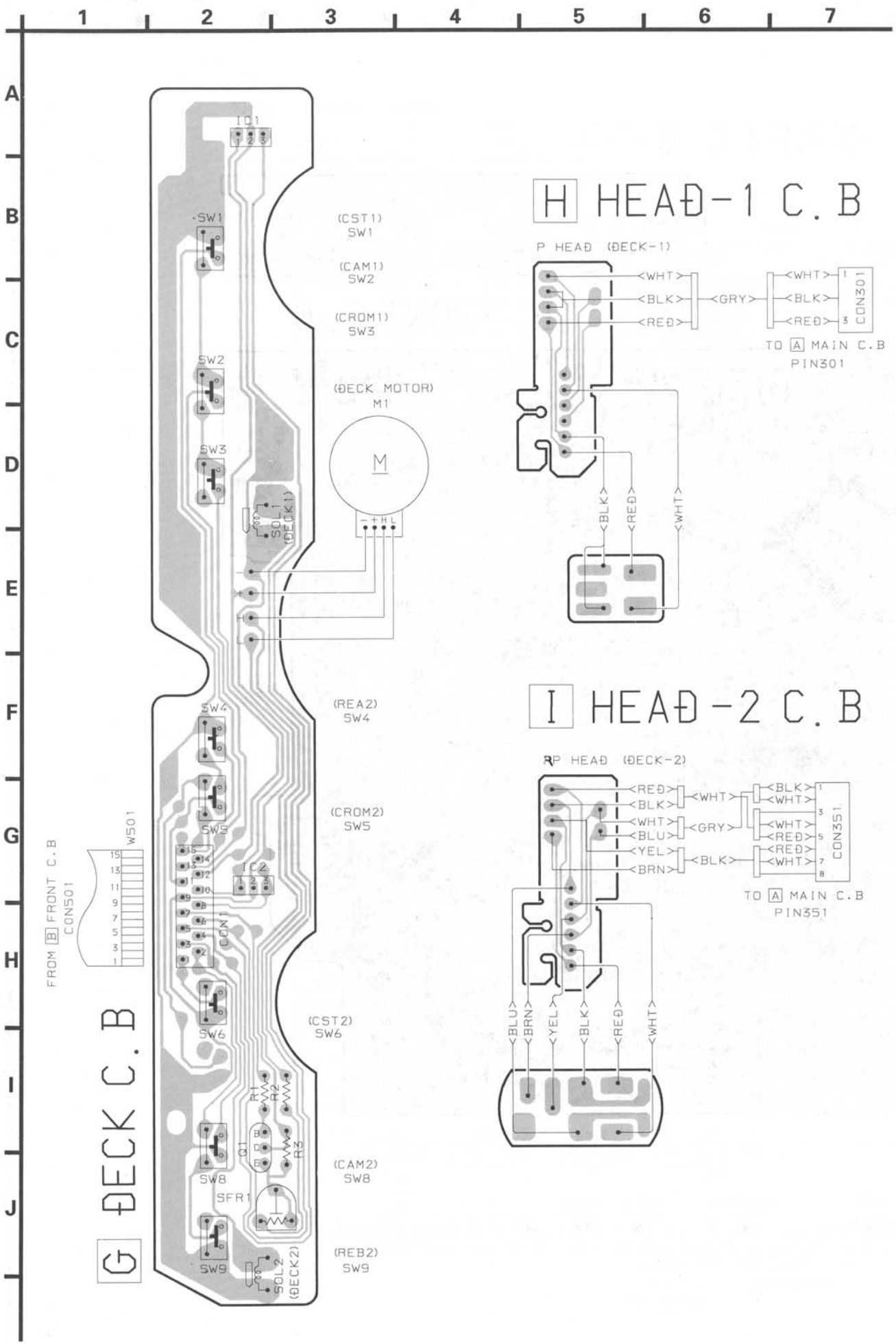
A MAIN C.B.

FROM HEAD-2 C.B FROM HEAD-1 C.B
CON551
CON301
1 3

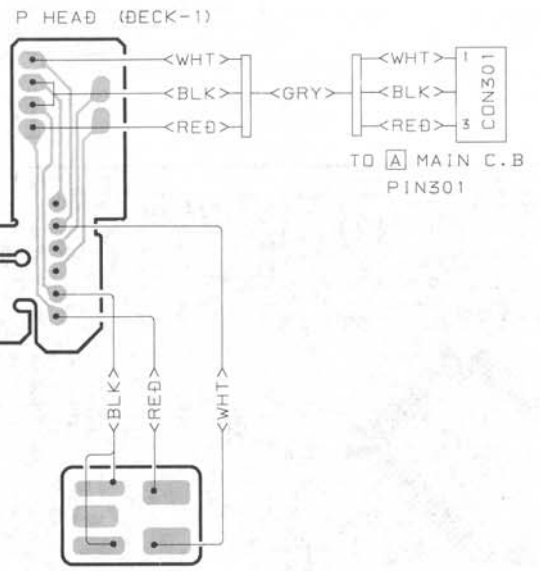


SCHEMATIC DIAGRAM - 1 (MAIN)

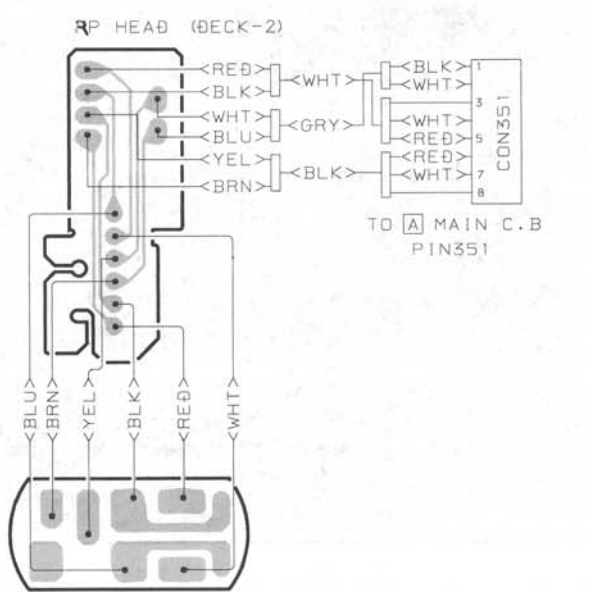


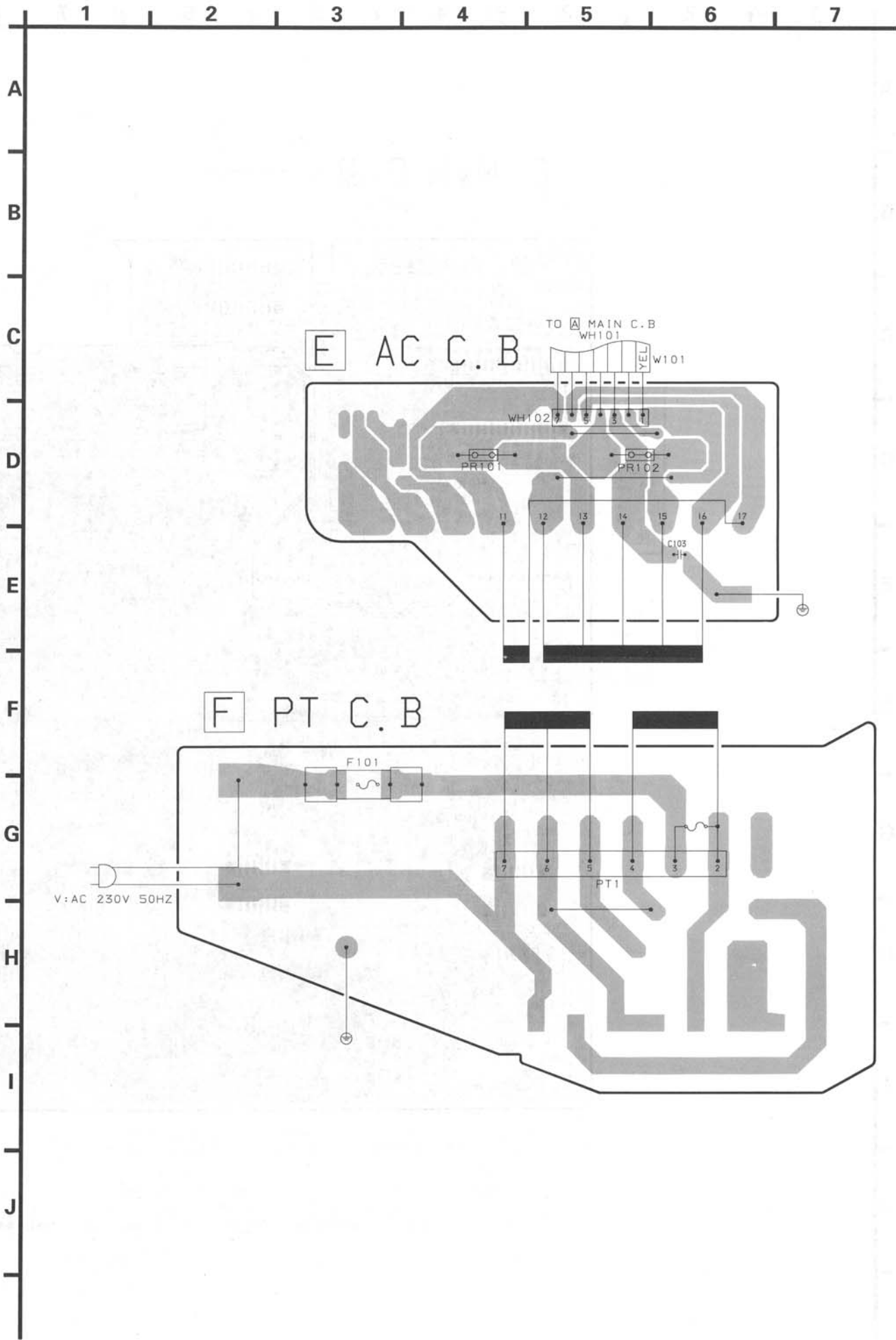


H HEAD-1 C.B.



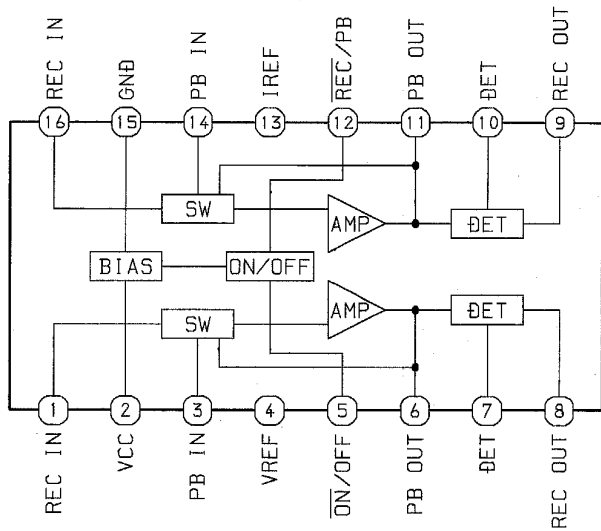
I HEAD-2 C.B.



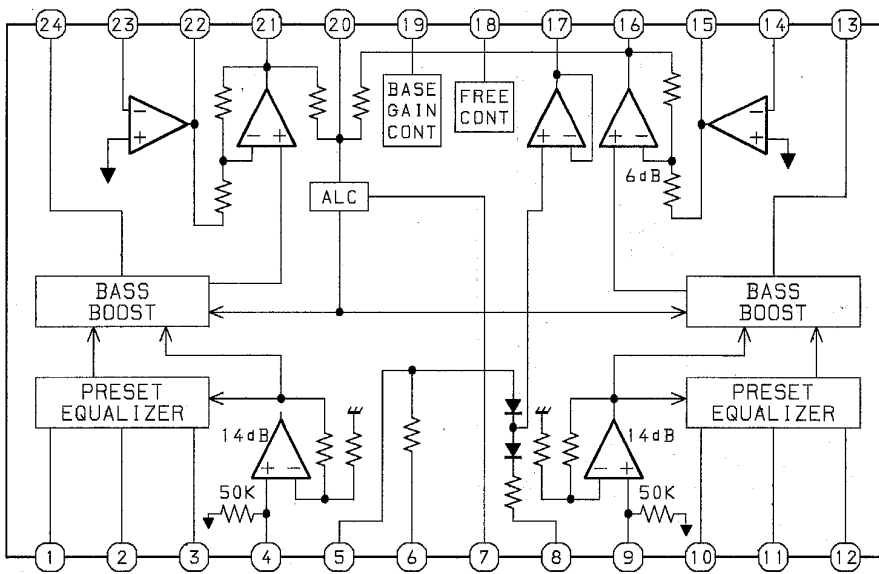


IC BLOCK DIAGRAM

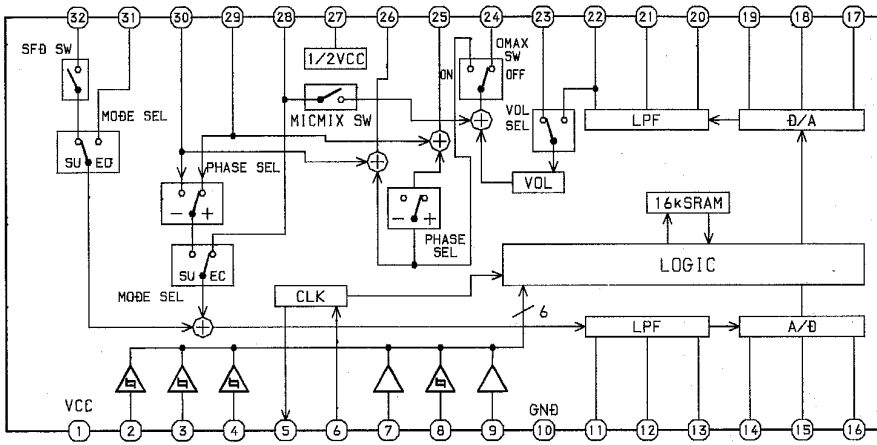
IC, HA12134A



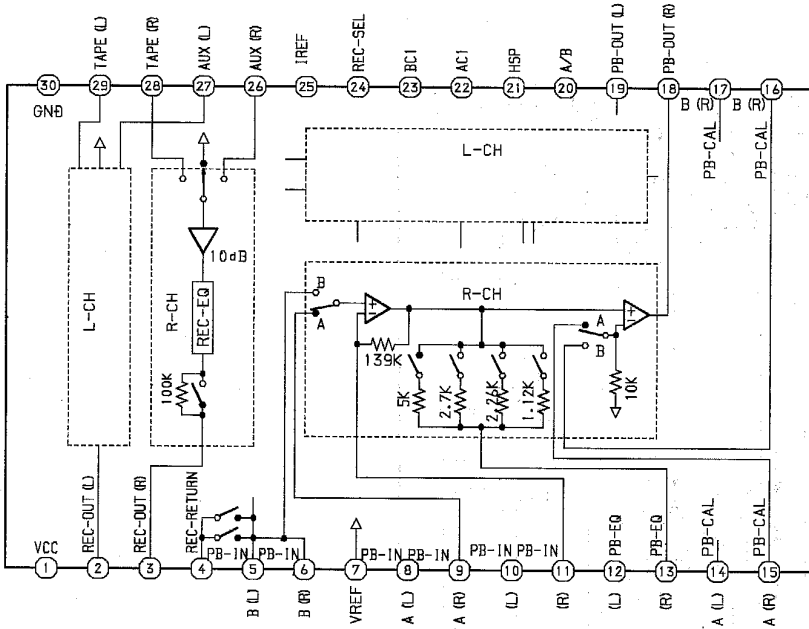
IC, BA3842F



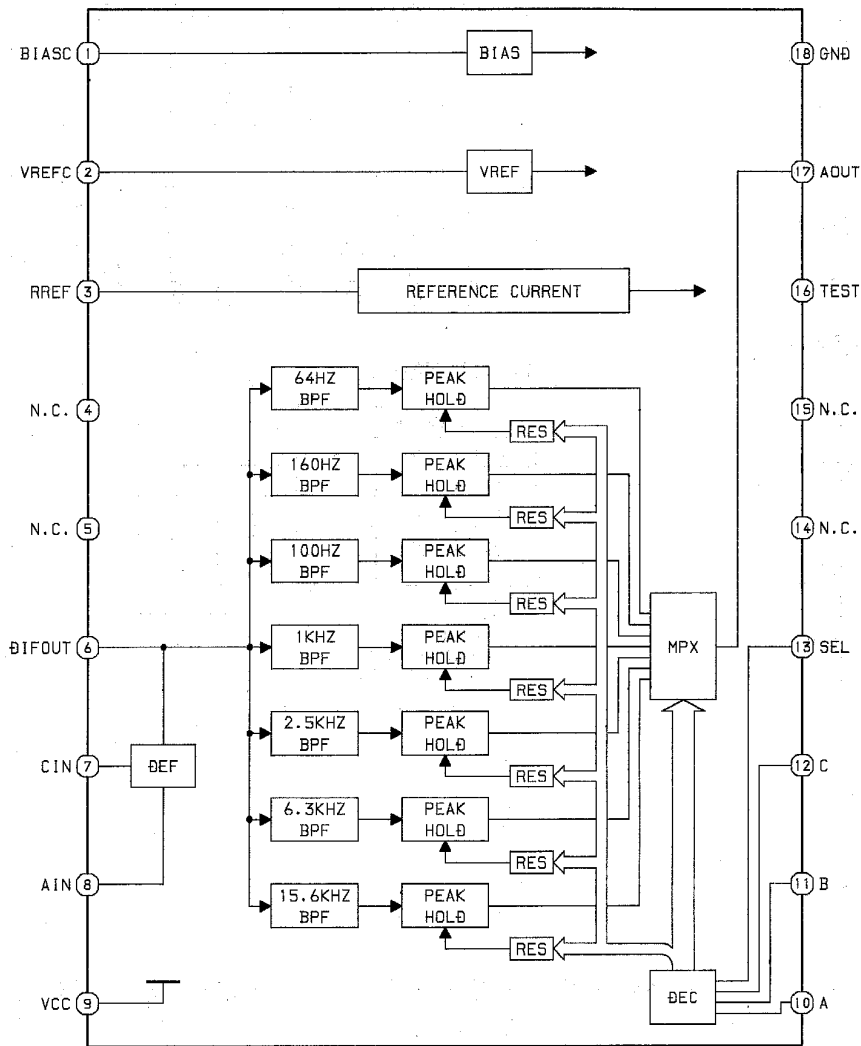
IC, M65846FP-600D



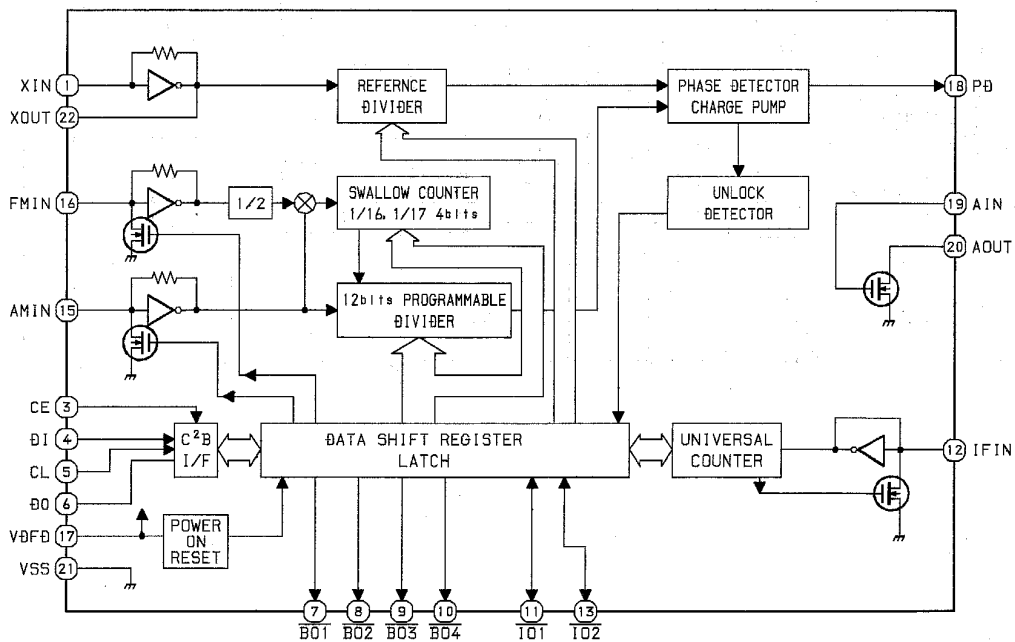
IC, HA12185NT



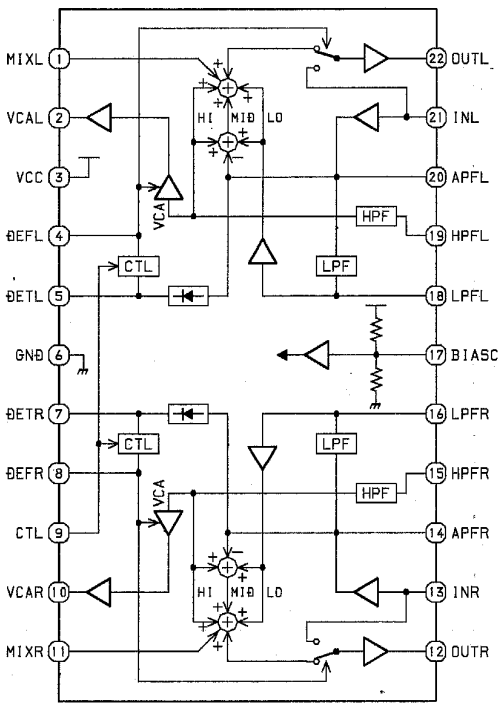
IC, BA3834S



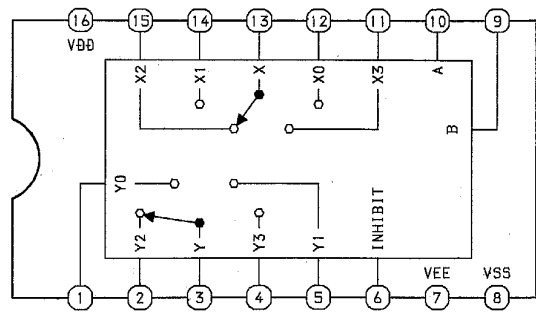
IC, LC72131



IC, BA3880S



IC, TC4052BP

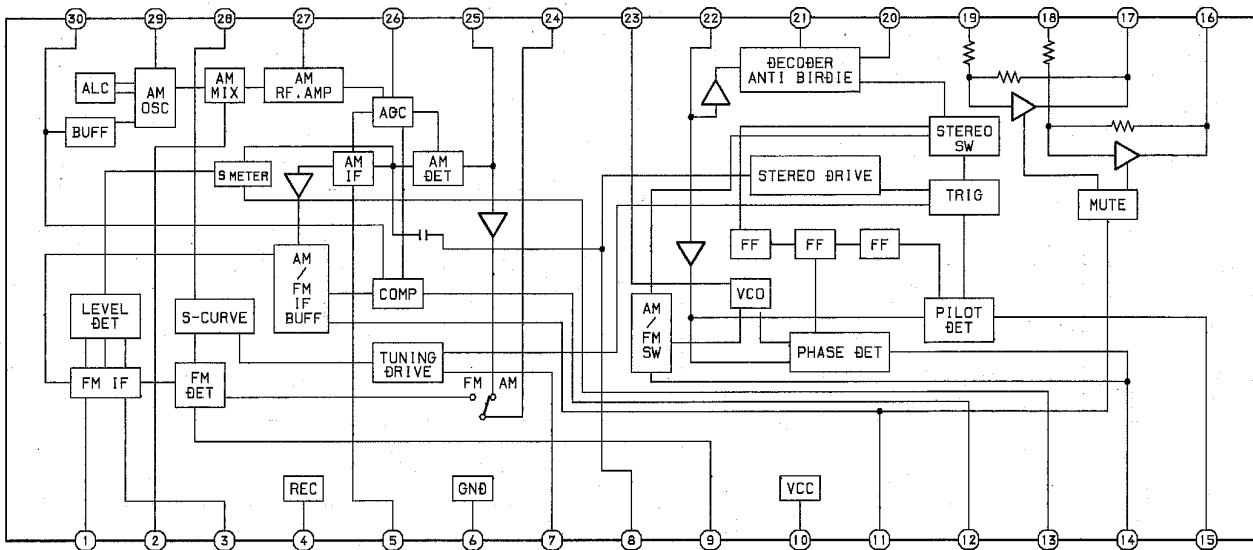


TRUTH TABLE

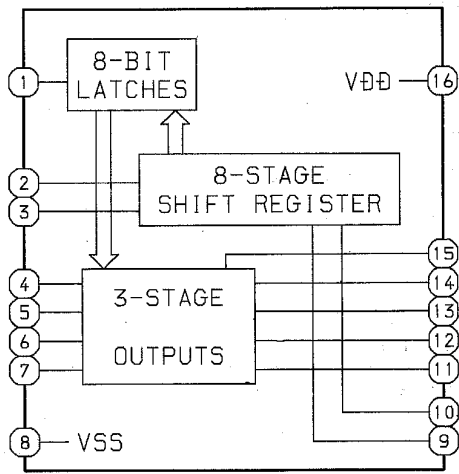
CONTROL INPUTS			ON SWITCH	
INHIBIT	B	A	Y0	X0
L	L	L	Y0	X0
L	L	H	Y1	X1
L	H	L	Y2	X2
L	H	H	Y3	X3
H	X	X	-	-

L: LOW LEVEL
 H: HIGH LEVEL
 X: IRRELEVANT

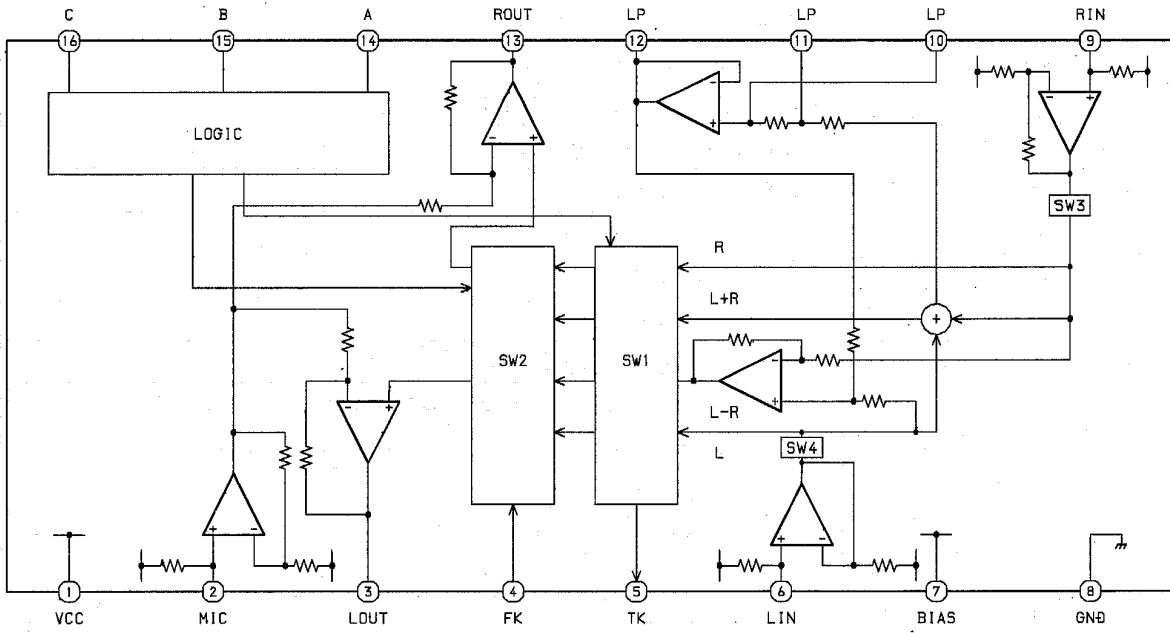
IC, LA1836



IC, TC4094BP



IC, BA3836

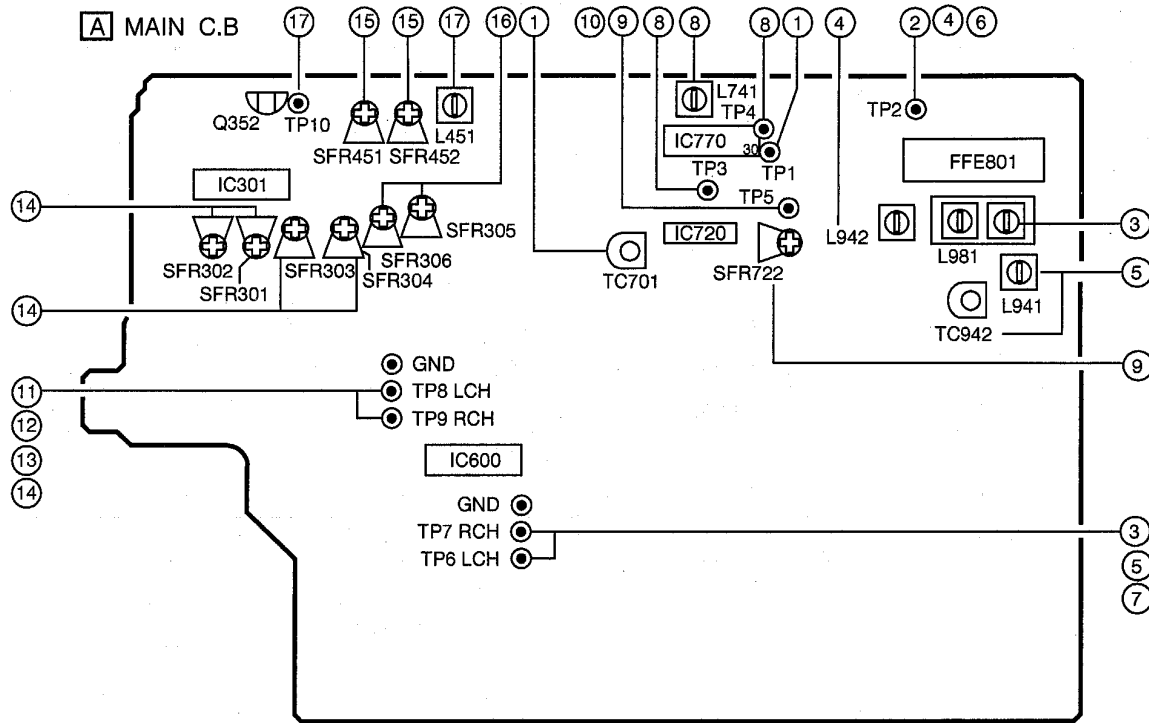


IC DESCRIPTION
IC, LC866440V-5A39

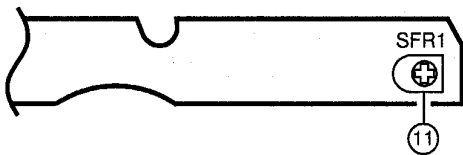
Pin No.	Pin Name	I/O	Description
1	$\overline{\text{O-PWM}}$	O	Not used.
2	O-PLL CE	O	PLL IC chip enable.
3	O-M/STB	O	Main shift register data latch strobe output.
4	O-M/DATA	O	Main shift register, PLL/Key control/DSP related data output.
5	O-M/CLK	O	Main shift register, PLL/Key control/DSP related clock.
6	O-MUTE	O	System mute output.
7	$\overline{\text{RESET}}$	I	Reset input.
8	I-DI-SENS	I	CD turntable photo sensor A/D converter input.
9	$\overline{\text{I-TUNE/IFC}}$	I	Tuner $\overline{\text{SD}}$ detected input. IF count serial data input.
10	VSS1	-	GND.
11,12	CF1, 2	-	5.76 MHz oscillator circuit.
13	VDD1	-	Power supply input.
14~16	I-KEY1 - 3	I	Key input. (A/D)
17	I-CD/SW	I	CD mechanical switch A/D converter input.
18	I-RD SIG	I	RDS signal input. (Tuner)
19	I-MS	I	Deck music sensor signal input.
20	I-SPEANA	I	A/D input for spectrum analyzer display.
21	I-MIC	I	Microphone input for auto VF display.
22	$\overline{\text{I-HOLD}}$	I	Power failure detected input "L" to stop clock and maintain memory.
23	I-RD CLK	I	RDS clock input. (Tuner)
24	I-RMC	I	System remote control signal input.
25~36	G12~G1	O	FL grid output G12~G1.
37	P22	O	FL segment output P22.
38	P21/O-SPEANA A	O	FL segment output P21, spectrum analyzer band switching output.
39	P20/O-SPEANA B	O	FL segment output P20, spectrum analyzer band switching output.
40	P19/O-SPEANA C	O	FL segment output P19, spectrum analyzer band switching output.
41	VDD2	-	Power supply input.
42	-VP	-	Power supply input (-34.5V) for FL display.
43	P18	O/I	FL segment output P18.
44	P17	O/I	FL segment output P17.
45	P16	O/I	FL segment output P16.
46	P15/CSM2	O/I	FL segment output P15, DECK2 cam switch data input.
47	P14/AUTO2	O/I	FL segment output P14, DECK2 auto stop signal input.
48	P13/CST2	O/I	FL segment output P13, DECK2 cassette detect switch data input.
49	P12/REA	O/I	FL segment output P12, DECK2 side-A record OK switch data input.
50	P11/REB	O/I	FL segment output P11, DECK2 side-B record OK switch data input.
51	P10/I-TM/BASE	O/I	FL segment output P10, reference clock input for timer watch.
52	P1/AM-ST,FM-W	O/I	FL segment output P1, AM stereo, FM-WIDE mode data input to diode.
53	P2/AM10K	O/I	FL segment output P2, AM 10kHz step data input to diode.
54	P3/LW	O/I	FL segment output P3, LW mode data input to diode.
55	P4/SW	O/I	FL segment output P4, SW mode data input to diode.

Pin No.	Pin Name	I/O	Description
56	P5	O	FL segment output P5.
57	P6	O	FL segment output P6.
58	P7	O	FL segment output P7.
59	P8	O	FL segment output P8.
60	P9	O	FL segment output P9.
61	O-CLOSE	O	CD tray close data output.
62	O-OPEN	O	CD tray open data output.
63	O-DI/R	O	CD turntable reverse rotation output.
64	O-DI/F	O	CD turntable forward rotation output.
65	O-POWER	O	System power supply ON/OFF output.
66	O-SOL1	O	DECK1 solenoid output (DECK 1).
67	O-SOL2	O	DECK2 solenoid output (DECK 2).
68	O-MOTOR	O	DECK motor output.
69	O-KEY-SCAN	O	Switch scan timing output.
70	O-F/STB	O	Front shift register, data latch strobe output.
71	O-F/CLK	O	Front shift register, data transfer clock output.
72	O-F/DATA	O	Front shift register, data output.
73	VSS2	-	GND.
74	IO-BUS 0	I/O	CD IC control and data bus input output.
75	IO-BUS 1/I-RD DA	I/O	CD IC control and data bus input output. RDS data input (TUNER).
76	IO-BUS 2	I/O	CD IC control and data bus input output.
77	IO-BUS 3	I/O	CD IC control and data bus input output.
78	O-CCE/I-STEREO	I/O	CD IC control chip enable output. Tuner stereo detected input.
79	O-BUCK	O	CD IC control and data bus clock output.
80	O-DSP CE	O	DSP data latch strobe output.

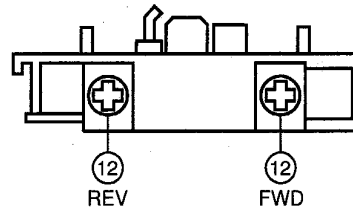
ADJUSTMENT <TUNER / DECK>



G DECK C.B



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



< TUNER SECTION >

1. Clock Frequency Adjustment
 Settings : • Test point : TP1 (CLK IC770 pin30)
 • Adjustment location : TC701
 Method : Set to MW 1602kHz and adjust TC701 so that the test point becomes 2052kHz \pm 0.01kHz.
2. MW VT Check
 Settings : • Test point : TP2 (VT)
 Method : Set to MW 1602kHz and check that the test point is less than 7.5V.
3. MW Tracking Adjustment
 Settings : • Test point : TP6, TP7
 • Adjustment location : L981
 Method : The level at 999kHz is adjusted to MAX by L981.
4. LW VT Adjustment
 Settings : • Test point : TP2 (VT)
 • Adjustment location : L942
 Method : Set to LW 144kHz and adjust L942 so that the test point becomes 1.3V \pm 0.05V.
5. LW Tracking Adjustment
 Settings : • Test point : TP6, TP7
 • Adjustment location :
 L941 144kHz
 TC942 290kHz
 Method : Set up TC942 to center before adjustment. The level at 144kHz is adjusted to MAX by L941. Then the level at 290kHz is adjusted to MAX by TC942.
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 8.2V(108.0MHz).

7. FM Tracking Check
 Settings : • Test point : TP6, TP7
 Method : Set to FM 98.0MHz and check that the test point is $6\text{dB} \pm 6\text{dB}$.
8. DC Balance / Mono Distortion Adjustment
 Settings : • Test point : TP3, TP4
 • Adjustment location : L741
 • Input level : 54dB
 Method : Set to FM 98.0MHz and adjust L741 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%.
9. Auto Stop Level Adjustment
 Settings : • Test point : TP5
 • Adjustment location : SFR722
 • Input level : 18dB
 Method : Set to FM 98.0 MHz and adjust voltage low (about 0.01V) by SFR722. After that voltage high (about 7.0V) out by 2dB down.
10. Auto Stop Level Check
 MW
 Settings : • Test point : TP5
 Method : Set to MW 999kHz and check that the test point is 40 ~ 65 dB.
- FM
 Settings : • Test point : TP5
 Method : Set to FM 98.0MHz and check that the test point is $20\text{ dB} \pm 5\text{ dB}$.

< DECK SECTION >

11. 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 $3000\text{Hz} \pm 5\text{Hz}$.
12. 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.
 Next, perform on each FWD PLAY and REV PLAY mode.
13. 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 $\pm 2\text{dB}$.
14. 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 300mV.
15. REC/PB Frequency Response Adjustment
 Settings : • Test tape : TTA-602
 • Test point : TP8, TP9
 • Input signal : 1kHz / 10kHz (LINE IN)
 • Adjustment location : SFR451 (Lch)
 SFR452 (Rch)
 Method : Apply a 1kHz signal and REC mode. Then adjust OSC attenuator so that the output level at the TP8, TP9 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.
16. 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 21mV. Record and play back the 1kHz signals and adjust SFRs so that the output is $21\text{mV} \pm 0.5\text{dB}$.
17. Bias OSC Frequency Adjustment
 Settings : • Test tape : TTA-601
 • Test point : TP10
 • Adjustment location : L451
 Method : Set to the REC mode. Adjust L451 so that the frequency counter of the test point becomes minimum.

PRACTICAL SERVICE FIGURE

<TUNER SECTION>

<FM SECTION>

S/N 50dB Quieting sensitivity :
[STEREO] FM1 : 33 ± 6dB
(65.0 / 70.0 / 74.0 MHz)
FM2 : 31 ± 5dB
(87.5 / 98.0 / 108.0 MHz)
Usable sensitivity : FM1 : 6 ± 6dB
[MONO] (65.0 / 70.0 / 74.0 MHz)
FM2 : 3 ± 6dB
(87.5 / 98.0 / 108.0 MHz)
Signal to noise ratio : More than 64dB (98.0 MHz) [STEREO]
More than 67dB (98.0 MHz) [MONO]
Distortion : Less than 2.0% (98.0 MHz) [STEREO]
Less than 1.3% (98.0 MHz) [MONO]
Stereo separation : More than 22dB (98.0 MHz)
Intermediate frequency : 10.7MHz

<MW SECTION>

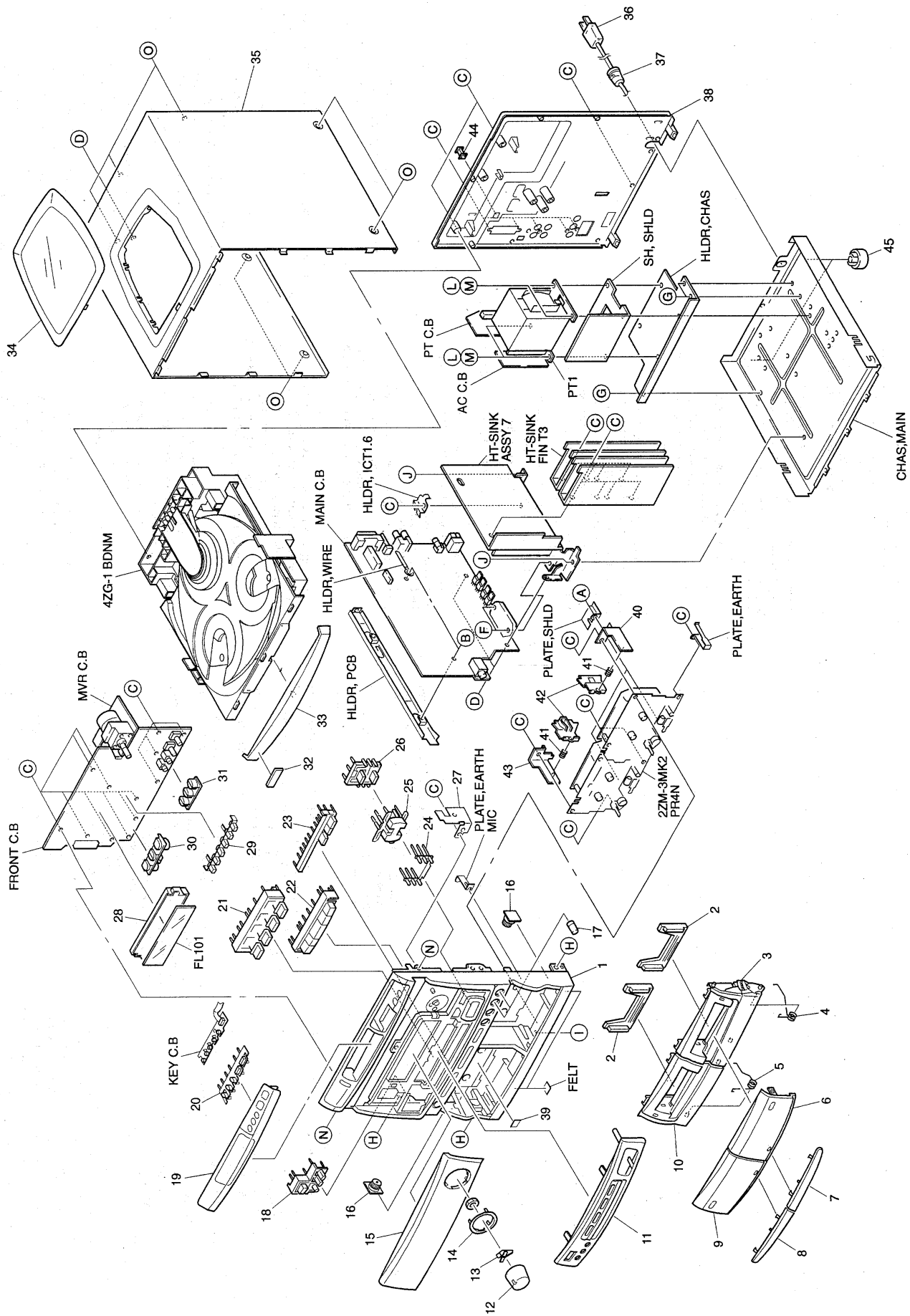
Sensitivity : 57dB ± 5dB (at 603 kHz)
(S/N 20 dB) 53dB ± 5dB (at 999 / 1404 kHz)
Signal to noise ratio : More than 36dB (999 kHz)
Distortion : Less than 1.5% (at 999 kHz)
Intermediate frequency : 450 kHz

<LW SECTION>

Sensitivity : 64dB ± 5dB (at 144 kHz)
(S/N 20dB) 62dB ± 5dB (at 198 kHz)
60dB ± 5dB (at 290 kHz)
Signal to noise ratio : More than 36dB (198 kHz)
Distortion : Less than 1.4% (at 198 kHz)
Intermediate frequency : 450kHz

<DECK SECTION>

Tape speed : 3000Hz ± 45Hz
Wow & flutter : Less than 0.15% (R.M.S)
Take-up torque : 30 ~ 55g-cm (FWD, REV)
F.F & REW torque : 75 ~ 160g-cm
Back tension : 2 ~ 7g-cm (FWD, REV)
PB Output level : 300mV ± 1dB (SP OUT 2V)
REC/PB Output level : 210mV ± 1dB (SP OUT 2V)
Distortion (REC/PB) : Less than 2.0% (NORM, CrO2)
Noise level (PB) : Less than 1.1mV
(DOLBY NR ON / OFF
CrO2 Vol MAX.)
Less than 1.8mV
(DOLBY NR ON / OFF
NORM. Vol MAX.)
Noise level (REC/PB) : Less than 1.2mV
(DOLBY NR ON / OFF
CrO2 SP OUT 2V)
Less than 2.0mV
(DOLBY NR ON / OFF
NORM. SP OUT 2V)
Crosstalk : More than 60dB (1kHz, 0VU)
Channel separation : More than 30dB (1kHz, 0VU)
Erasing ratio : More than 60dB (at 125Hz)
Test tape : NORMAL : TTA-602
CrO2 : TTA-615

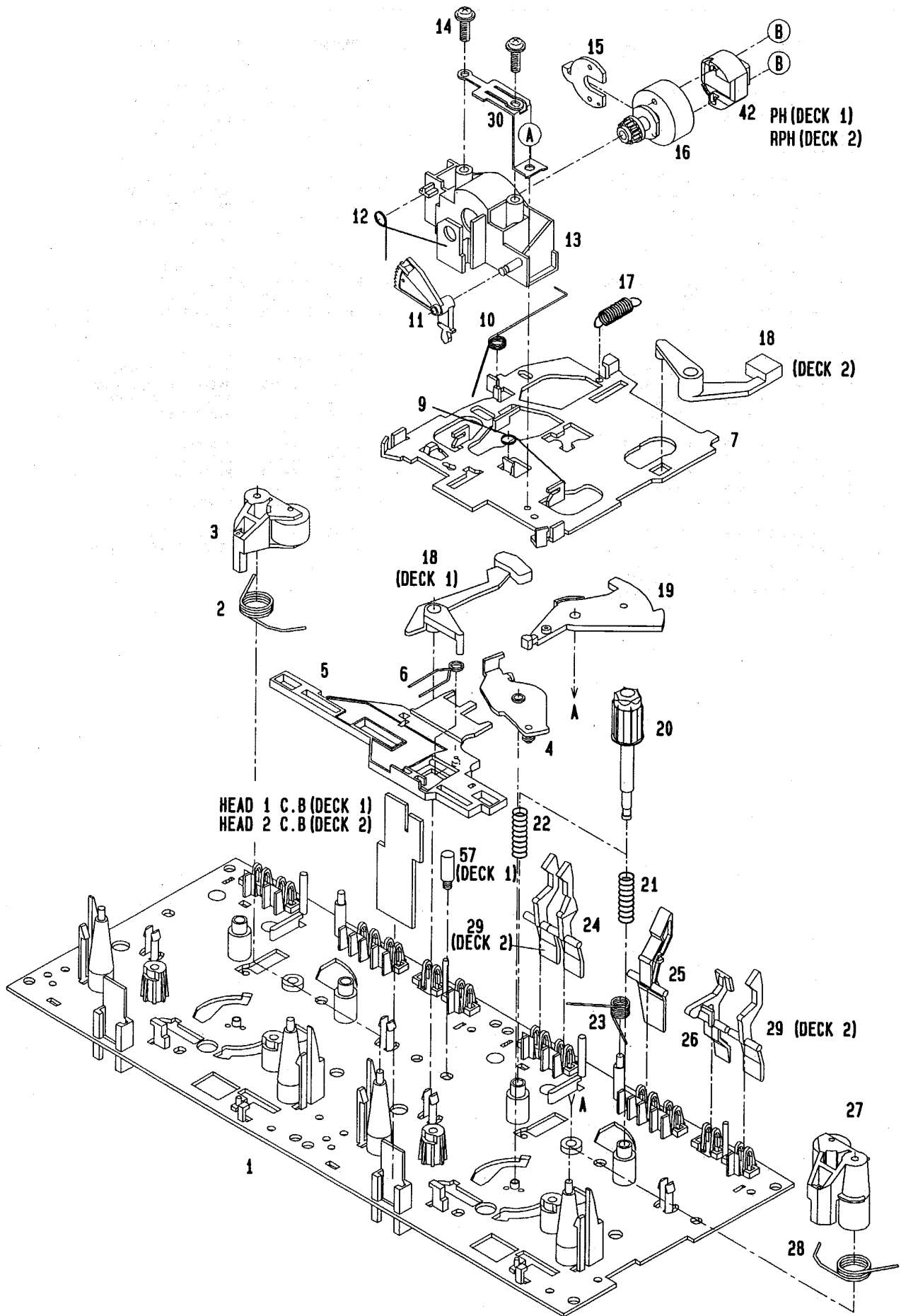


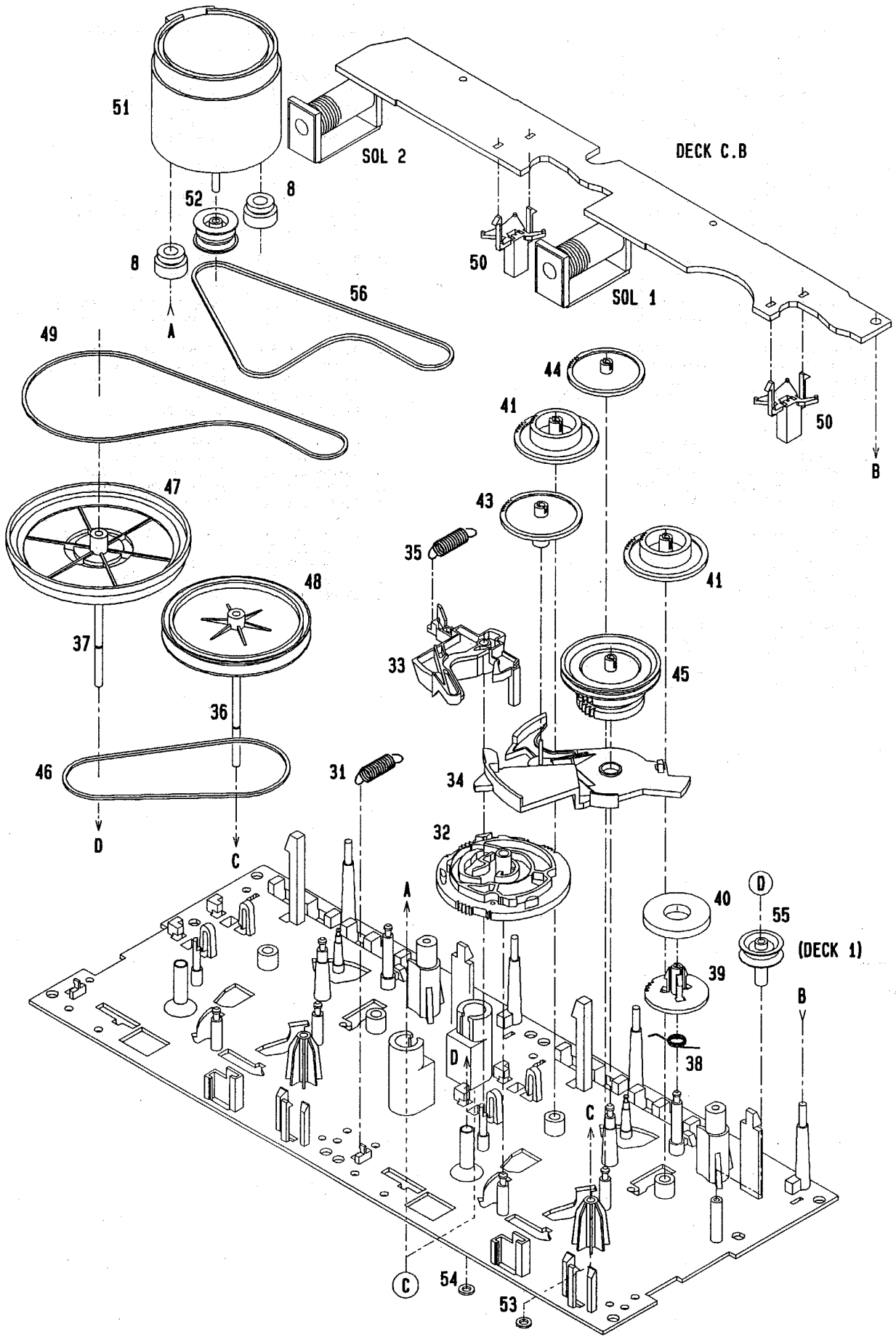
MECHANICAL PARTS LIST 1/1

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	86-NF4-001-019		CABI,FR	31	85-NF5-211-119		GUIDE,LED R
2	86-NF6-061-019		REFLECTOR,CASS	32	82-NE6-067-019		BADGE AIWA 30N
3	86-NF4-051-019		BOX,CASS 2EU	33	86-NF4-053-019		PANEL,TRAY EX
4	82-NF5-219-019		SPR-T,EJECT 2 (SIN)	34	86-NF6-007-019		WINDOW, TOP
5	82-NF5-218-019		SPR-T,EJECT 1 (SIN)	35	86-NF6-048-019		CABI,STEEL H-S
6	86-NF4-033-019		WINDOW,BOX 2	△ 36	87-050-079-019		AC-CORD ASSY,E
7	86-NF4-008-019		PANEL,CASS 2	37	87-085-185-010		BUSHING,AC CORD E
8	86-NF4-007-019		PANEL,CASS 1	38	86-NF4-096-010		PANEL,REAR
9	86-NF4-032-019		WINDOW,BOX 1	39	81-532-080-019		LBL,CASS-COMPT
10	86-NF4-050-019		BOX,CASS 1EU	40	82-NF5-227-019		HLDR,LOCK 2N
11	86-NF4-006-019		PANEL,FR	41	82-NF5-228-019		SPR-C,LOCK
12	86-NF4-017-019		KNOB,RTRY VOL	42	82-NF5-229-019		PLATE,LOCK
13	86-NF4-035-019		LENS,VOL	43	82-NF5-226-019		HLDR,LOCK 1N
14	86-NF4-009-019		RING,VOL	44	84-ZG1-245-019		CAP,OPTICAL
15	86-NF4-048-019		WINDOW,DISP 4EX	45	87-085-221-019		FOOT,H 13.5
16	87-063-165-019		OIL-DMPR 150	A	87-571-032-419		VIT+2-3
17	86-NF4-049-019		KNOB,RTRY MIC	B	87-078-084-019		BVTT+3-6 W,CONVEX
18	86-NF4-012-01S		KEY,POWER	C	87-067-703-019		BVT2+3-10 (W/O SLOT)
19	86-NF4-030-019		WINDOW,CD	D	87-067-633-019		BVT2+3-8 W/CONVEX
20	86-NF4-013-019		KEY,CD	F	87-067-698-019		BVT 2+3-18
21	86-NF4-021-019		KEY ASSY,FUN	G	87-571-092-410		VIT+3-4
22	86-NF4-014-019		KEY,PLAY	H	87-591-094-419		QIT + 3 - 6 GOLD
23	86-NF4-016-019		KEY,DOLBY	I	87-067-689-010		BVTT+3-8
24	86-NF4-037-019		LENS,GEO	J	87-067-566-010		VFTT+3-6
25	86-NF4-015-019		KEY,DSP	L	87-067-975-019		S-SCREW IT+4-8
26	86-NF4-019-019		KEY,BBE	N	87-721-097-419		QT2+3-12 GLD
27	83-NF5-207-019		HLDR,FFC	O	87-067-641-019		UTT2+3-8 W/O SLOT BLK
28	83-NF5-202-019		GUIDE,FL				
29	86-NF4-202-019		GUIDE,PLAY				
30	85-NF5-210-119		GUIDE,LED L				

TAPE MECHANISM EXPLODED VIEW 1/1



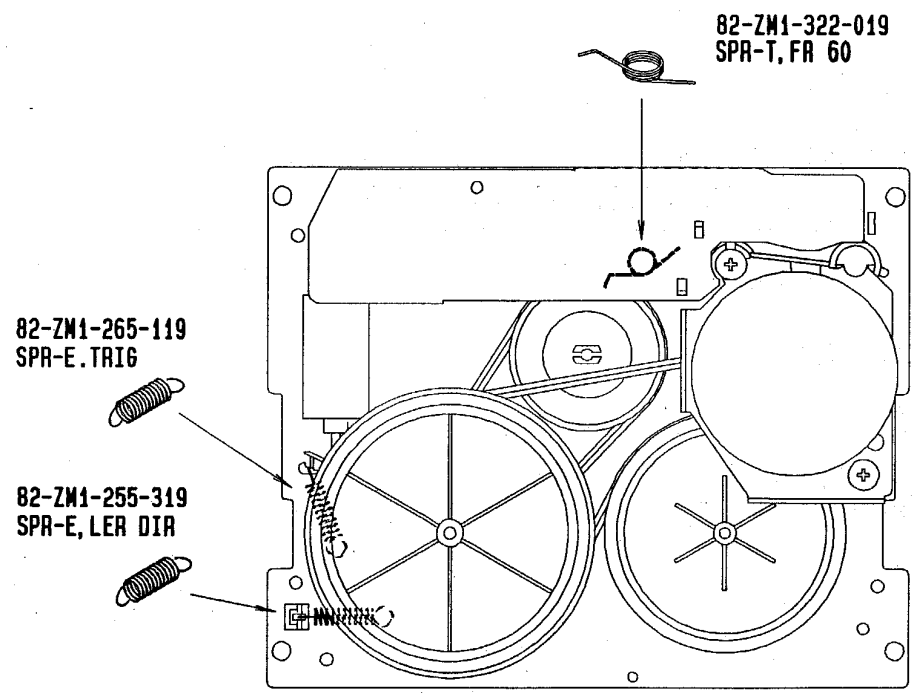
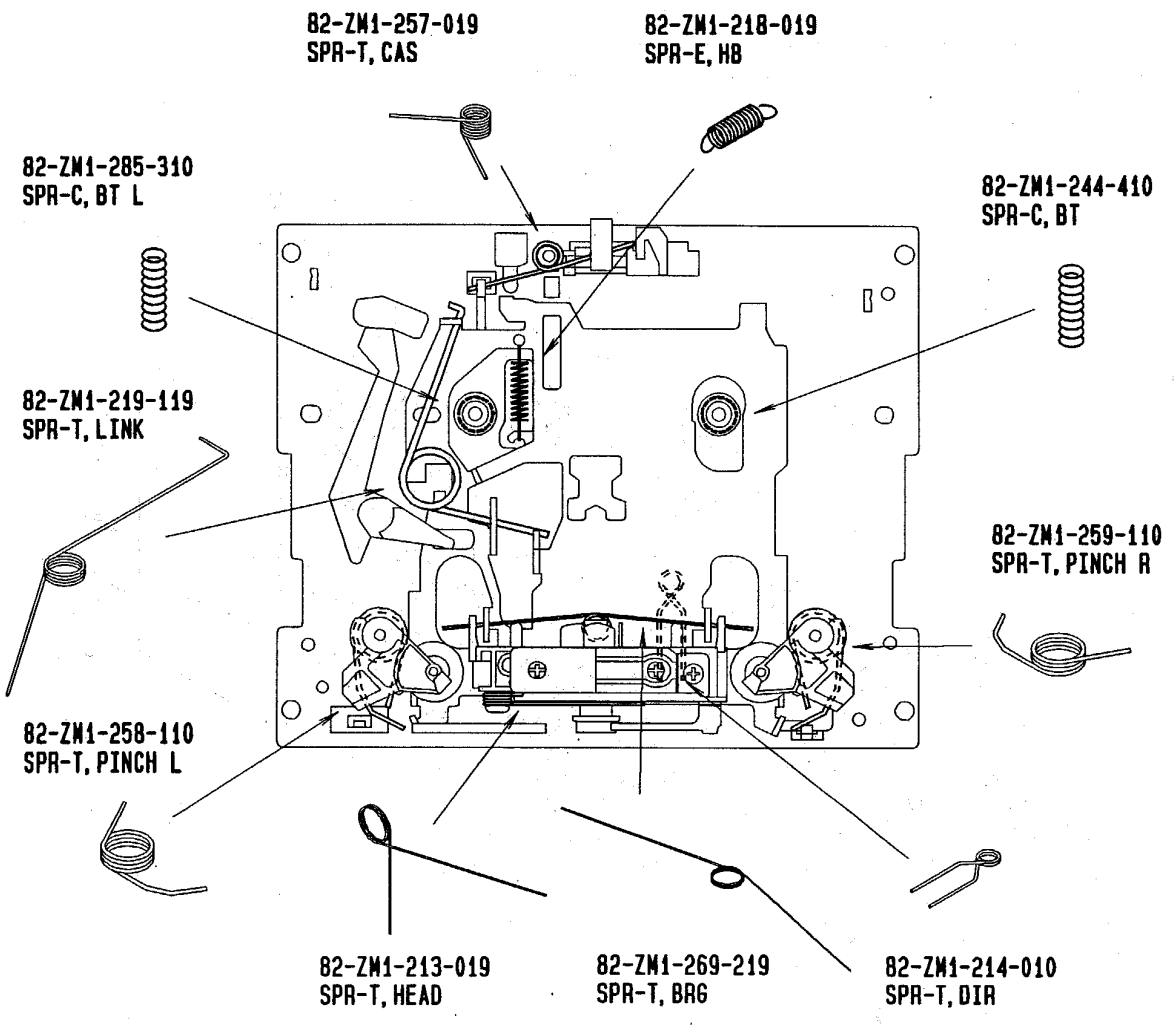


TAPE MECHANISM PART LIST 1/1

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	35	82-ZM1-265-119		SPR-E,TRIG
2	82-ZM1-258-110		SPR-T,PINCH L	36	82-ZM1-236-019		CAPSTAN N 2-41.5
3	82-ZM1-345-019		LVR ASSY,PINCH L W	37	82-ZM1-239-019		CAPSTAN N 2.2-41.7
4	82-ZM1-333-010		PLATE,LINK 2	38	82-ZM1-322-019		SPR-T,FR60
5	82-ZM1-266-11K		LVR,DIR	39	82-ZM1-220-219		GEAR,IDLER
6	82-ZM1-214-010		SPR-T,DIR	40	82-ZM1-316-010		RING MAGNET 3
7	82-ZM1-206-81K		CHAS,HEAD	41	82-ZM1-216-31K		GEAR,REEL
8	82-ZM3-307-019		CUSH-G,DIA3.7-8-3.2	42	87-046-398-019		HEAD,PH YK50P-BS409(PH)
9	82-ZM1-269-219		SPR-T,BRG	42	87-046-399-019		HEAD,RPH YK56R-BS409(RPH)
10	82-ZM1-219-119		SPR-T,LINK	43	82-ZM1-225-21K		GEAR,FR
11	82-ZM1-210-119		GEAR,H T	44	82-ZM1-226-019		GEAR,REW
12	82-ZM1-213-019		SPR-T,HEAD	45	82-ZM1-228-810		SLIP DISK ASSY
13	82-ZM1-207-619		GUIDE,TAPE	46	82-ZM1-338-010		BELT FR4
14	82-ZM1-283-310		S-SCREW,AZIMUTH	47	82-ZM1-238-81K		FLY-WHL ASSY,R (DECK 2)
15	82-ZM1-314-119		PLATE,HEAD	47	82-ZM3-210-71K		FLY-WHL ASSY,R2 (DECK 1)
16	82-ZM1-208-119		HLDR,HEAD	48	82-ZM1-235-51K		FLY-WHL ASSY,L (DECK 2)
17	82-ZM1-218-019		SPR-E,HB	48	82-ZM3-208-61K		FLY-WHL ASSY,L2 (DECK 1)
18	82-ZM1-263-110		LVR,EJECT L (DECK 1)	49	82-ZM3-329-210		BELT,SBU R2
18	82-ZM1-264-010		LVR,EJECT R (DECK 2)	50	82-ZM1-245-210		HLDR,IC
19	82-ZM1-222-21K		LVR,PLAY	51	87-045-347-019		MOT,SHU2L 70(M1)
20	82-ZM1-217-319		REEL TABLE	52	82-ZM3-221-010		PULLEY,MOT 2M
21	82-ZM1-244-510		SPR-C,BT	53	82-ZM1-288-019		SH,1.63-3.2-0.5 SLT
22	82-ZM1-285-310		SPR-C,BT L	54	80-ZM6-243-019		SH,1.75-3.6-0.5 SLT
23	82-ZM1-257-019		SPR-T,CAS	55	82-ZM3-304-110		PULLEY,COUPLER (DECK 1)
24	82-ZM1-241-319		LVR,MC	56	82-ZM3-328-110		BELT,SBU P2
25	82-ZM1-242-019		LVR,CAS	57	82-ZM3-216-019		SHAFT,COUPLER N(DECK 1)
26	82-ZM1-243-019		LVR,STOP	A	82-ZM1-315-010		S-SCREW,GVIDE TAPE
27	82-ZM1-346-019		LVR ASSY,PINCH R W	B	80-ZM6-207-019		V+1.6-7
28	82-ZM1-259-110		SPR-T,PINCH R	C	82-ZM3-318-019		S-SCRW MOTOR M2
29	82-ZM1-240-11K		LVR,REC (DECK 2)	D	87-067-972-019		PW,1.05-3-0.25 SLT
30	82-ZM1-298-010		SPR-P,EARTH				
31	82-ZM1-255-319		SPR-E,LVR DIR				
32	82-ZM3-305-01K		GEAR,CAM M2				
33	82-ZM1-227-21K		LVR,TRIG				
34	82-ZM3-306-11K		LVR,FR M2				

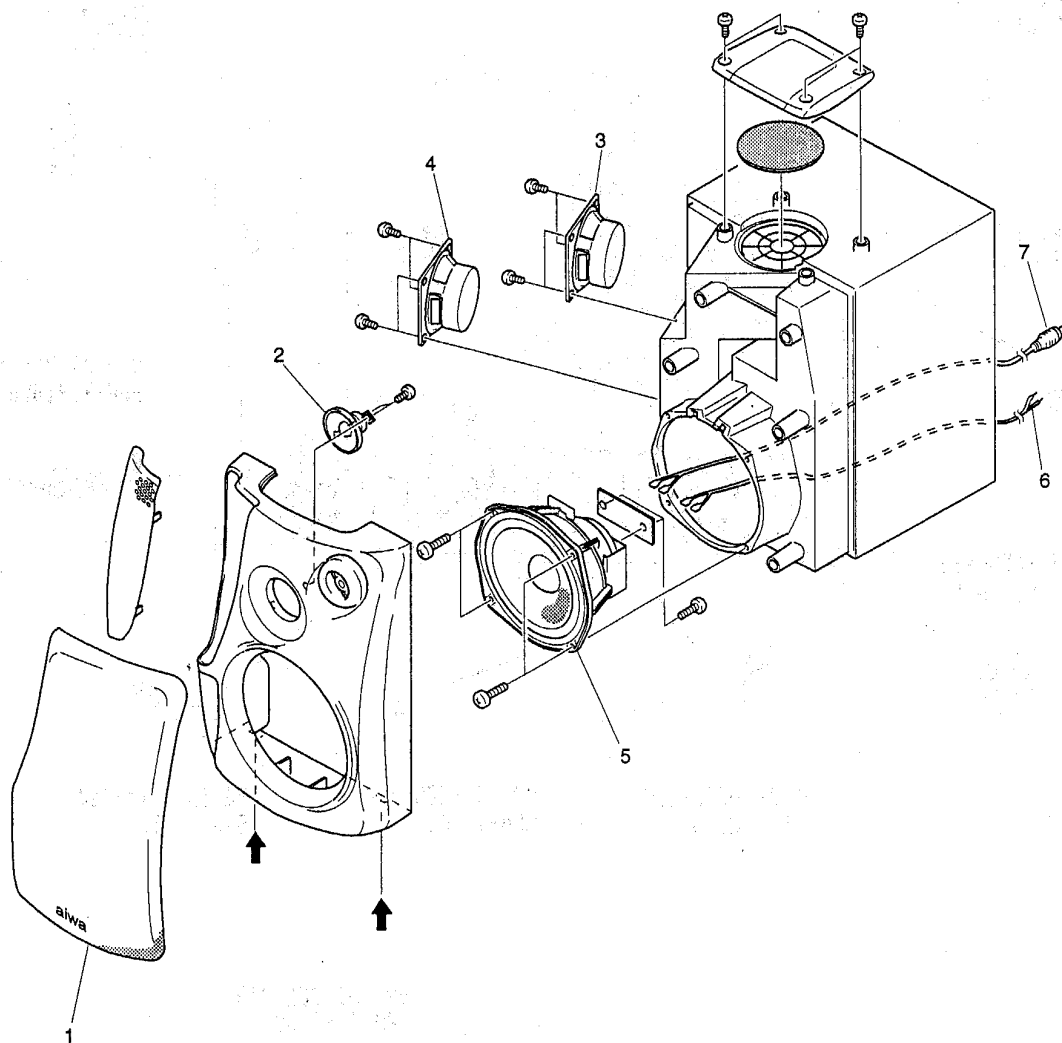
SPRING APPLICATION POSITION



SPEAKER EXPLODED VIEW (SX-ANV900)

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

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.



SPEAKER PARTS LIST (SX-ANV900)

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

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	86-NS4-009-019		GRILLE FRAME R ASSY
1	86-NS4-010-019		GRILLE FRAME L ASSY
2	86-NS4-608-019		SPKR T 50
3	86-NS4-604-019		SPKR M 80
4	86-NS4-606-019		SPKR F 80
5	86-NS4-602-019		SPKR W 140 H
6	83-NS5-613-019		SPEAKER CORD ASSY
7	85-NS6-611-019		SPEAKER CORD Y/B

REFERENCE NAME LIST

ELECTRICAL SECTION

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

MECHANICAL SECTION

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

サービス技術ニュース	
番号	連絡内容
G-	-
G-	-
G-	-

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