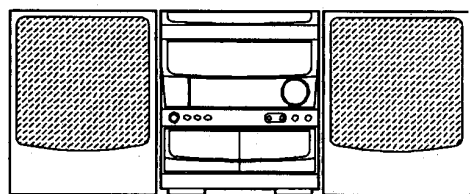


aiwa



NSX-AV70



COMPACT DISC STEREO
CASSETTE RECEIVER

- BASIC TAPE MECHANISM : 2ZM-3MK2 PR5N
- BASIC CD MECHANISM : 4ZG-1 ZDNM

• TYPE: EZ,K,G

CD-CASSEIVER	SPEAKER	REMOTE CONTROLLER
CX-NAV70 (TYPE: K,G,EZ)	SX-NAV70 SX-CR421 SX-CR423	RC UNIT,6AS02

- If requiring information about the CD mechanism, see Service Manual of 4ZG-1, S/M Code No.09-963-128-10T
- If requiring information about the Speaker, see Service Manual of SX-NAV70, SX-CR421, SX-CR423, S/M Code No.09-964-137-8FP

SPECIFICATIONS

<FM tuner section>

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

<AM (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 144kHz ~ 290kHz
Usable sensitivity 1400 μ V/m
Antenna Loop antenna

<Amplifier section>

Power output
Front :
 Rated : 30 W + 30 W
 (6 ohms, T.H.D. 1%, 1 kHz/
 DIN 45500)
 Reference: 40 W + 40 W
 (6 ohms, T.H.D. 10%, 1 kHz/
 DIN 45324)
Surround (Rear) :
 Rated : 10 W + 10 W
 (16 ohms, T.H.D. 1%, 1 kHz/
 DIN 45500)
 Reference: 13 W + 13 W
 (16 ohms, T.H.D. 10%, 1 kHz/
 DIN 45324)
Center :
 Rated : 20 W
 (8 ohms, T.H.D. 1%, 1 kHz/
 DIN 45500)
 Reference: 26 W
 (8 ohms, T.H.D. 10%, 1 kHz/
 DIN 45324)
Total Harmonic distortion 0.05% (15 W, 1 kHz, 6 ohms, DIN
 AUDIO/Front)
Inputs VIDEO/AUX: 150mV
 MIC 1, MIC 2: 1 mV (10 kohms)
Outputs SUPER WOOFER: 1.2 V
 SPEAKERS: accept speakers of
 6 ohms or more
 SURROUND SPEAKERS:
 accept speakers of 16 ohms or
 more
 CENTER SPEAKER:
 accept speakers of 8 ohms or
 more
 PHONES (stereo jack): accepts
 headphones of 32 ohms or more

<Cassette deck section>

Track format 4 tracks, 2 channels stereo
Frequency response CrO₂ tape: 50 Hz - 16000 Hz
 Normal tape: 50 Hz - 15000 Hz
Signal-to-noise ratio 60 dB (DOLBY NR ON, CrO₂ tape
 peak level)
Recording system AC bias
Heads Deck 1: Playback head x 1
 Deck 2: Recording/playback/
 erase head x 1

<Compact disc player section>


Laser Semiconductor laser (λ =780 nm)
D-A converter 1 bit dual
Signal-to-noise ratio 85 dB (1 kHz, 0 dB)
Harmonic distortion 0.05% (1 kHz, 0 dB)
Wow and flutter Unmeasurable

<Speaker system SX-NAV70>

Cabinet type 3way, bass reflex (Magnetic
 sealed type)
Speakers Woofer:
 140 mm (5⁵/₈ in.) cone type
 Tweeter:
 60mm (3¹/₄ in.) cone type
 Super tweeter:
 20 mm (1³/₁₆ in.) ceramic type
Impedance 6 ohms
Output sound pressure level 87 dB/W/m
Dimensions (W x H x D) 235 x 302 x 250 mm
 (9³/₈ x 12 x 10⁷/₈ in.)
Weight 3.3 kg

<General>

Power requirements K, EZ : 230 V AC, 50 Hz
 G : 230-240 V AC, 50 Hz
Power consumption 295 W
Dimensions of main unit 260 x 307 x 328 mm
 (10¹/₄ x 12¹/₈ x 13 in.)
Weight of main unit 7.4 kg

- Design and specifications are subject to change without notice.
- Manufactured under license from Dolby Laboratories Licensing Corporation.
 "DOLBY", the double-D symbol  and "PRO LOGIC" are trademarks of Dolby Laboratories Licensing Corporation.

PROTECTION OF EYES FROM LASER BEAM DURING SERVICING

This set employs laser. Therefore, be sure to follow carefully the instructions below when servicing.

WARNING!!

WHEN SERVICING, DO NOT APPROACH THE LASER EXIT WITH THE EYE TOO CLOSELY. IN CASE IT IS NECESSARY TO CONFIRM LASER BEAM EMISSION. BE SURE TO OBSERVE FROM A DISTANCE OF MORE THAN 30cm FROM THE SURFACE OF THE OBJECTIVE LENS ON THE OPTICAL PICK-UP BLOCK.



- Caution: Invisible laser radiation when open and interlocks defeated avoid exposure to beam.
- Advarsel: Usynlig laserstråling ved åbning, når sikkerhedsafbrydere er ude af funktion. Undgå udsættelse for stråling.

VAROITUS!

Laiteen Käyttäminen muulla kuin tässä käyttöohjeessa mainitulla tavalla saattaa altistaa käyttäjän turvallisuusluokan 1 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

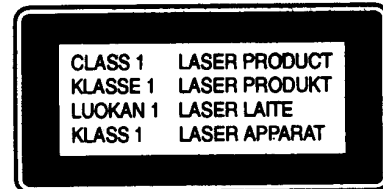
L'utilisation de commandes, réglages ou procédures autres que ceux spécifiés peut entraîner une dangereuse exposition aux radiations.

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.

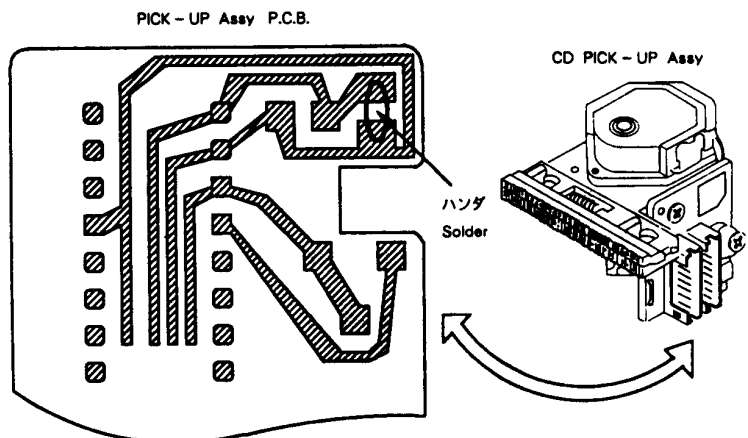


Precaution to replace Optical block

(KSS - 210A)

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				C144	87-010-196-089		C-CAP,S 0.1-25 F
	86-NFT-650-010		C-IC UPD78045BGF-017	C145	87-010-196-089		C-CAP,S 0.1-25 F
	87-A20-101-019		IC,STK405-070A	C146	87-010-390-019		CAP,E 3300-25 SME
	87-070-453-010		IC,SPS-442-1	C151	87-012-368-089		C-CAP,S 0.1-50F
	87-070-121-010		IC,HA12185NT	C152	87-012-368-089		C-CAP,S 0.1-50F
	87-017-914-019		IC,BU4094 BC				
	87-017-804-019		IC,BU4052BC	C153	87-016-474-099		CAP,E 3300-50
	87-A20-107-019		IC,BA3836	C154	87-016-474-099		CAP,E 3300-50
	87-017-888-089		IC,NJM4558MD	C161	87-010-401-089		CAP,E 1-50 SME
	87-A20-069-049		C-IC,BA3842F	C172	87-012-140-089		C-CAP,S 470P-50 CH
	87-070-127-119		IC,LC72131D	C173	87-010-405-089		CAP,E 10-50 SME
	87-017-714-119		IC,LA1836L				
	87-070-267-019		IC,STR405-050	C181	87-010-101-089		CAP,E 220-16 SME
	87-001-874-019		IC-HA12134A	C182	87-010-381-089		CAP,E 330-16 SME
	87-A20-082-010		C-IC,NJW1102AFG1	C197	87-010-196-089		C-CAP,S 0.1-25 F
	87-017-915-089		IC,BU4094BCF	C198	87-010-196-089		C-CAP,S 0.1-25 F
	87-A20-067-040		C-IC,M65849FP	C201	87-010-404-089		CAP,E 4.7-50 SME
TRANSISTOR				C202	87-010-404-089		CAP,E 4.7-50 SME
	87-026-610-089		TR,KTC3198GR	C203	87-010-177-089		C-CAP,S 820P-50 SL
	89-327-125-089		C-TR,2SC2712GR	C204	87-010-177-089		C-CAP,S 820P-50 SL
	89-111-625-089		C-TR,2SA1162GR	C205	87-010-182-089		C-CAP,S 2200P-50 B
	87-026-609-089		TR,KTA1266GR	C206	87-010-182-089		C-CAP,S 2200P-50 B
	89-213-702-019		TR 2SB1370E				
	89-332-665-089		TR,2SC3266GR	C207	87-010-402-089		CAP,E 2.2-50 SME
	89-406-555-089		TR,2SD655E	C208	87-010-402-089		CAP,E 2.2-50 SME
	87-026-218-089		TR,DTC144ES	C209	87-010-404-089		CAP,E 4.7-50 SME
	87-026-286-089		TR,DTA143ES	C210	87-010-404-089		CAP,E 4.7-50 SME
	89-502-466-089		TR FET 2SK246-BL (TPE2)	C211	87-010-318-089		C-CAP,S 47P-50 CH
	89-333-317-089		TR,2SC3331T				
	87-026-216-089		TR,DTA124ES	C212	87-010-318-089		C-CAP,S 47P-50 CH
	89-109-521-089		TR,2SA952K	C213	87-010-147-089		C-CAP,S 3P-50 CH
	89-112-965-089		TR,2SA1296GR	C214	87-010-147-089		C-CAP,S 3P-50 CH
	87-026-219-089		TR,DTA144ES	C215	87-010-196-089		C-CAP,S 0.1-25 F
	89-327-143-089		C-TR,2SC2714 (O)	C216	87-010-196-089		C-CAP,S 0.1-25 F
	89-328-785-089		TR 2SC2878-A (E2-M)				
	87-026-269-089		TR,DTA114ES	C217	87-010-196-089		C-CAP,S 0.1-25 F
	89-503-602-089		C-FET, 2SK360E	C218	87-010-196-089		C-CAP,S 0.1-25 F
	87-026-214-089		TR,DTA114YS	C219	87-010-198-089		C-CAP,S 0.022-25 B
	89-505-434-549		C-FET, 2SK543(4/5)	C220	87-010-198-089		C-CAP,S 0.022-25 B
	87-026-462-089		TR,2SC1740SRS	C221	87-010-194-089		C-CAP,S 0.047-25 F
	89-320-011-089		TR,2SC2001K				
	89-110-155-089		TR,2SA1015GR	C261	87-010-197-089		C-CAP,S 0.01-25 B
				C262	87-010-197-089		C-CAP,S 0.01-25 B
				C263	87-010-197-089		C-CAP,S 0.01-25 B
				C264	87-010-197-089		C-CAP,S 0.01-25 B
				C301	87-010-197-089		C-CAP,S 0.01-25 B
				C311	87-012-155-089		C-CAP,S 180P-50 CH
				C312	87-012-155-089		C-CAP,S 180P-50 CH
				C313	87-010-181-089		C-CAP,S 1800P-50 B
				C314	87-010-181-089		C-CAP,S 18500P-50 B
				C321	87-012-145-089		C-CAP S 270P-50CH
DIODE				C322	87-012-145-089		C-CAP,S 150P-50 CH
	87-020-027-089		C-DIODE,1SS184	C324	87-012-154-089		C-CAP,S 150P-50 CH
	87-020-125-089		C-DIODE,1SS181	C325	87-010-179-089		C-CAP,S 1200P-50 B
	87-017-078-089		DIODE,1N4003	C326	87-010-179-089		C-CAP,S 1200P-50 B
	87-017-437-089		DIODE,1N4148M				
	87-A40-116-069		DIODE,RS403L-B-D-51	C333	87-010-198-089		C-CAP,S 0.022-25 B
	87-001-559-089		DIODE,ISS131(T-72)	C334	87-010-198-089		C-CAP,S 0.022-25 B
	87-020-339-089		C-DIODE,ISS226	C337	87-010-400-089		CAP,E 0.47-50 SME
	87-A40-199-089		ZENER,UZL6H2	C338	87-010-400-089		CAP,E 0.47-50 SME
	87-A40-201-089		ZENER,UZ4.7BSA	C339	87-010-371-089		CAP,E 470-6.3 11L
	87-A40-203-089		ZENER,UZ5.1BSC				
	87-A40-209-089		ZENER,UZ27BSD	C340	87-010-196-089		C-CAP,S 0.1-25 F
	87-A40-200-089		ZENER,UZL11L3	C355	87-010-401-089		CAP,E 1-50 SME
	87-A40-202-089		ZENER,UZ5.1B5B	C356	87-010-401-089		CAP,E 1-50 SME
	87-A40-198-089		ZENER,UZL6M1	C357	87-010-178-089		C-CAP,S 1000P-50 B
				C359	87-010-196-089		C-CAP,S 0.1-25 F
				C360	87-010-196-089		C-CAP,S 0.1-25 F
				C371	87-012-156-089		C-CAP,S 220P-50 CH
				C372	87-012-156-089		C-CAP,S 220P-50 CH
MAIN C.B				C373	87-010-177-089		C-CAP,S 820P-50 SL
	BPF831 87-030-105-019		FLTR,BPMB6A	C374	87-010-175-089		C-CAP,S 560P-50 UJ
	C131 87-010-403-089		CAP,E 3.3-50 SME				
	C141 87-010-384-089		CAP,E 100-25 SME	C376	87-010-392-089		CAP,E 33-35 SME
	C142 87-010-384-089		CAP,E 100-25 SME	C377	87-010-198-089		C-CAP,S 0.022-25 B
	C143 87-010-764-089		CAP,E 47-63V	C378	87-010-197-089		C-CAP,S 0.01-25 B
				C379	87-010-183-089		C-CAP,S 2700P-50 B
				C380	87-010-183-089		C-CAP,S 2700P-50 B

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
C381	87-010-183-089		C-CAP,S 2700P-50 B	C795	87-010-194-089		C-CAP,S 0.047-25 F
C401	87-012-142-089		C-CAP,S 0.33-16 F	C796	87-010-403-089		CAP,E 3.3-50 SME
C402	87-012-142-089		C-CAP,S 0.33-16 F	C797	87-010-197-089		C-CAP,S 0.01-25 B
C403	87-010-177-089		C-CAP,S 820P-50 SL	C799	87-010-405-089		CAP,E 10-50 SME
C404	87-010-177-089		C-CAP,S 820P-50 SL	C801	87-010-197-089		C-CAP,S 0.01-25 B
C405	87-010-545-089		CAP,E 0.22-50 SME	C802	87-010-312-089		C-CAP,S 15P-50 CH
C406	87-010-545-089		CAP,E 0.22-50 SME	C803	87-018-134-089		CAP,TC-U 0.01-16 Y
C407	87-010-400-089		CAP,E 0.47-50 SME	C805	87-010-146-089		C-CAP,S 2P-50 CH
C408	87-010-400-089		CAP,E 0.47-50 SME	C806	87-010-147-089		C-CAP,S 3P-50 CH
C409	87-010-405-089		CAP,E 10-50 SME	C807	87-010-312-089		C-CAP,S 15P-50 CH
C452	87-010-184-089		C-CAP,S 3300P-50 B	C808	87-010-322-089		C-CAP,S 100P-50 CH
C453	87-010-312-089		C-CAP,S 15P-50 CH	C809	87-010-197-089		C-CAP,S 0.01-25 B
C455	87-010-197-089		C-CAP,S 0.01-25 B	C810	87-010-197-089		C-CAP,S 0.01-25 B
C456	87-010-402-089		CAP,E 2.2-50 SME	C811	87-010-149-089		C-CAP,S 5P-50 CH
C521	87-010-181-089		C-CAP,S 1800P-50 B	C812	87-010-314-089		C-CAP,S 22P-50 CH
C522	87-010-181-089		C-CAP,S 1800P-50 B	C813	87-010-197-089		C-CAP,S 0.01-25 B
C523	87-010-178-089		C-CAP,S 1000P-50 B	C814	87-010-197-089		C-CAP,S 0.01-25 B
C524	87-010-178-089		C-CAP,S 1000P-50 B	C817	87-010-196-089		C-CAP,S 0.1-25 F
C527	87-010-220-089		C-CAP,S 0.018-25 B	C820	87-010-260-089		CAP,E 47-25 SME
C528	87-010-220-089		C-CAP,S 0.018-25 B	C821	87-010-197-089		C-CAP,S 0.01-25 B
C529	87-010-400-089		CAP,E 0.47-50 SME	C823	87-010-197-089		C-CAP,S 0.01-25 B
C530	87-010-400-089		CAP,E 0.47-50 SME	C825	87-010-196-089		C-CAP,S 0.1-25 F
C531	87-010-382-089		CAP,E 22-25 SME	C827	87-010-145-089		C-CAP,S 1P-50 CH
C532	87-010-198-089		C-CAP,S 0.022-25 B	C831	87-010-312-089		C-CAP,S 15P-50 CH
C551	87-010-401-089		CAP,E 1-50 SME	C832	87-010-314-089		C-CAP,S 22P-50 CH
C552	87-010-401-089		CAP,E 1-50 SME	C833	87-010-197-089		C-CAP,S 0.01-25 B
C553	87-010-194-089		C-CAP,S 0.047-25 F	C834	87-010-311-089		C-CAP,S 12P-50 CH
C554	87-010-183-089		C-CAP,S 2700P-50 B	C835	87-010-154-089		C-CAP,S 10P-50 CH
C555	87-010-196-089		C-CAP,S 0.1-25 F	C836	87-010-312-089		C-CAP,S 15P-50 CH
C556	87-010-263-089		CAP,E 100-10 SME 5X11	C837	87-010-312-089		C-CAP,S 15P-50 CH
C557	87-010-596-089		C-CAP,S 0.047-16 RK	C843	87-010-146-089		C-CAP,S 2P-50 CH
C558	87-010-545-089		CAP,E 0.22-50 SME	C849	87-010-197-089		C-CAP,S 0.01-25 B
C562	87-010-596-089		C-CAP,S 0.047-16 RK	C851	87-010-197-089		C-CAP,S 0.01-25 B
C601	87-010-198-089		C-CAP,S 0.022-25 B	C901	87-010-197-089		C-CAP,S 0.01-25 B
C701	87-010-404-089		CAP,E 4.7-50 SME	C942	87-010-148-089		C-CAP,S 4P-50 CH
C702	87-010-197-089		C-CAP,S 0.01-25 B	C946	87-010-401-089		CAP,E 1-50 SME
C703	87-010-197-089		C-CAP,S 0.01-25 B	C952	87-010-197-089		C-CAP,S 0.01-25 B
C704	87-010-178-089		C-CAP,S 1000P-50 B	C955	87-010-197-089		C-CAP,S 0.01-25 B
C707	87-010-402-089		CAP,E 2.2-50 SME	C957	87-010-315-089		C-CAP,S 27P-50CH
C708	87-010-402-089		CAP,E 2.2-50 SME	C958	87-010-197-089		C-CAP,S 0.01-25 B
C711	87-010-263-089		CAP,E 100-10 SME 5X11	C960	87-010-196-089		C-CAP,S 0.1-25 F
C712	87-010-112-089		CAP,E 100-16 11L	C988	87-010-198-089		C-CAP,S 0.022-25 B
C722	87-010-152-089		C-CAP,S 8P-50 CH	C999	87-010-196-089		C-CAP,S 0.1-25 F
C723	87-010-178-089		C-CAP,S 1000P-50 B	CF801	87-008-423-089		CF,SFE 10.7 MS3G-A
C725	87-010-178-089		C-CAP,S 1000P-50 B	CF802	82-785-747-089		CF,MS2 GHY,R
C727	87-010-196-089		C-CAP,S 0.1-25 F	D801	87-002-730-089		VARI-CAP SVC203SPA
C728	87-010-248-089		CAP,E 220-10 SME	D802	87-002-730-089		VARI-CAP SVC203SPA
C729	87-010-197-089		C-CAP,S 0.01-25 B	D803	87-002-730-089		VARI-CAP SVC203SPA
C730	87-018-134-089		CAP,TC-U 0.01-16 Y	D804	87-002-730-089		VARI-CAP SVC203SPA
C770	87-010-197-089		C-CAP,S 0.01-25 B	FT510	83-NF5-632-019		CABLE FFC 6P-1.25
C771	87-010-405-089		CAP,E 10-50 SME	IFT806	87-A50-018-019		COIL,FM IFT(4T)COI
C772	87-010-194-089		C-CAP,S 0.047-25 F	J241	87-A60-031-019		JACK,6.3 BLK ST W/S
C773	87-010-196-089		C-CAP,S 0.1-25 F	J261	87-A60-238-019		TERMINAL,SP 4PMS
C774	87-010-263-089		CAP,E 100-10 SME 5X11	J281	87-099-801-019		JACK,PIN 1P BLK
C775	87-010-405-089		CAP,E 10-50 SME	J501	87-099-715-019		JACK,PIN 2P
C776	87-010-197-089		C-CAP,S 0.01-25 B	J802	87-033-241-019		TERMINAL,ANT AJ-2039
C777	87-010-400-089		CAP,E 0.47-50 SME	L261	87-003-383-019		COIL,1UH-S
C778	87-010-401-089		CAP,E 1-50 SME	L262	87-003-383-019		COIL,1UH-S
C779	87-010-401-089		CAP,E 1-50 SME	L351	87-A50-149-019		COIL,TRAP 85K
C780	87-010-197-089		C-CAP,S 0.01-25 B	L352	87-A50-149-019		COIL,TRAP 85K
C781	87-010-404-089		CAP,E 4.7-50 SME	L371	87-007-342-019		COIL,OSC 85K BIAS
C782	87-010-404-089		CAP,E 4.7-50 SME	L701	87-A50-027-019		COIL,1 POLE MPX (TOK)
C787	87-010-184-089		C-CAP,S 3300P-50 B	L702	87-A50-027-019		COIL,1 POLE MPX (TOK)
C788	87-010-184-089		C-CAP,S 3300P-50 B	L741	87-A50-015-019		COIL,FM DET(TOK)
C789	87-010-179-089		C-CAP,S 1200-50 B	L742	87-A90-051-019		FLTR,CPAZ-450(TOK)
C790	87-010-179-089		C-CAP,S 1200-50 B	L770	87-003-102-089		COIL,10UH(CECS)
C791	87-010-401-089		CAP,E 1-50 SME	L790	87-005-564-089		C-COIL,2.2UH
C792	87-010-183-089		C-CAP,S 2700P-50 B	L801	87-006-249-019		COIL,ANT FM3/4TS,L4
C793	87-010-189-089		C-CAP,S 8200P-50 B	L802	87-006-251-019		COIL,ANT FM2-3/4TS,L4
C794	87-010-260-089		CAP,E 47-25 SME	L803	87-006-244-019		COIL,RF FM 3-1/2T,L4

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
L804	87-006-250-019		COIL, RF FM 3-1/2TS, L4	J602	82-NF7-630-019		JACK, 3.5 MO
L805	87-003-098-089		COIL, 2.2UH (CECS)	L201	87-007-340-019		COIL, CLOCK 4.19MHZ
L807	87-A50-031-019		COIL, FM OSC (TOK)	L220	87-003-098-019		COIL, 2.2UH
L831	87-006-250-019		COIL, RF FM 3-1/2TS, L4	LED401	87-070-201-089		LED, SLP9118C-51-S-T1
L832	87-003-098-089		COIL, 2.2UH (CECS)	LED402	87-070-201-089		LED, SLP9118C-51-S-T1
L941	87-A50-020-019		COIL, ANT LW	LED403	87-070-201-089		LED, SLP9118C-51-S-T1
L942	87-A50-019-019		COIL, OSC LW	LED404	87-070-201-089		LED, SLP9118C-51-S-T1
L981	86-NF4-665-019		AM PACK 1(TOK)	LED411	87-070-199-089		LED, SLP738F-81-S-T1
R191	87-022-050-089		RESIS METAL 1W-0.22J	LED412	87-070-199-089		LED, SLP738F-81-S-T1
R192	87-022-050-089		RESIS METAL 1W-0.22J	LED413	87-070-199-089		LED, SLP738F-81-S-T1
RY151	87-045-361-019		RELAY, DH12D2-OS(M)-2	LED414	87-070-199-089		LED, SLP738F-81-S-T1
SFR311	87-024-174-089		SFR 33K DIA.6 V	LED415	87-070-199-089		LED, SLP738F-81-S-T1
SFR312	87-024-174-089		SFR 33K DIA.6 V	LED416	87-070-199-089		LED, SLP738F-81-S-T1
SFR321	87-024-174-089		SFR 33K DIA.6 V	LED417	87-070-199-089		LED, SLP738F-81-S-T1
SFR322	87-024-174-089		SFR 33K DIA.6 V	LED418	87-070-199-089		LED, SLP738F-81-S-T1
SFR371	87-024-175-089		SFR, 47K DIA6 V	LED421	87-017-784-080		LED, SEL 1550CM TP8
SFR372	87-024-175-089		SFR, 47K DIA6 V	LED422	87-017-784-080		LED, SEL 1550CM TP8
SFR401	87-024-175-089		SFR, 47K DIA6 V	LED423	87-017-784-080		LED, SEL 1550CM TP8
SFR402	87-024-175-089		SFR, 47K DIA6 V	LED424	87-017-784-080		LED, SEL 1550CM TP8
SFR722	87-024-353-089		SFR, 10K DIA6 H	LED425	87-017-784-080		LED, SEL 1550CM TP8
TC721	87-011-253-089		TRIMER, 30P LAR	LED426	87-017-784-080		LED, SEL 1550CM TP8
TC801	87-011-252-089		TRIMMER 10P LAR	LED431	87-070-278-019		LED, SLZ-738A-24-S
TC802	87-011-252-089		TRIMMER 10P LAR	LED432	87-070-278-019		LED, SLZ-738A-24-S
TC803	87-011-252-089		TRIMMER 10P LAR	LED433	87-070-278-019		LED, SLZ-738A-24-S
TC942	87-011-253-089		TRIMER, 30P LAR	LED434	87-070-278-019		LED, SLZ-738A-24-S
VR501	82-NF5-660-019		VR, 50KBX2 RK14K12A	LED435	87-070-290-019		LED, SLZ 936-30-S
W111	85-NF5-628-019		F-CABLE 7P-2.5	LED436	87-070-290-019		LED, SLZ 936-30-S
X703	84-508-618-019		VIB, CER CSB 456 F/5	LED441	87-017-733-080		LED, SEL1250SM
X721	87-030-372-019		VIB, XTAL 7.2MHZ	LED442	87-017-733-080		LED, SEL1250SM
				LED443	87-017-733-080		LED, SEL1250SM
FRONT C.B				LED444	87-017-733-080		LED, SEL1250SM
C201	87-010-196-089		C-CAP, S 0.1-25 F	LED445	87-017-733-080		LED, SEL1250SM
C203	87-012-155-089		C-CAP, S 180P-50 CH	S301	87-036-397-089		SW, TACT SKQNA B
C204	87-010-313-089		C-CAP, S 18P-50 CH	S302	87-036-397-089		SW, TACT SKQNA B
C205	87-010-314-089		C-CAP, S 22P-50 CH	S303	87-036-397-089		SW, TACT SKQNA B
C206	87-012-140-089		C-CAP, S 470P-50 CH	S304	87-036-397-089		SW, TACT SKQNA B
C207	87-018-209-089		CAP, TC-U 0.1-50 F	S305	87-036-397-089		SW, TACT SKQNA B
C251	87-010-405-049		CAP, E 10-50 SME	S306	87-036-397-089		SW, TACT SKQNA B
C252	87-010-263-049		CAP, E 100-10	S307	87-036-397-089		SW, TACT SKQNA B
C253	87-010-248-049		CAP, E 220-10 SME	S313	87-036-397-089		SW, TACT SKQNA B
C255	87-010-494-049		CAP, E 1-50 GAS	S314	87-036-397-089		SW, TACT SKQNA B
C256	87-010-494-049		CAP, E 1-50 GAS	S315	87-036-397-089		SW, TACT SKQNA B
C351	87-010-490-049		CAP, ELECT 0.1-50	S316	87-036-397-089		SW, TACT SKQNA B
C352	87-010-490-049		CAP, ELECT 0.1-50	S317	87-036-397-089		SW, TACT SKQNA B
C353	87-010-408-049		CAP, E 47-50 SME	S318	87-036-397-089		SW, TACT SKQNA B
C401	87-010-198-089		C-CAP, S 0.022-25 B	S319	87-036-397-089		SW, TACT SKQNA B
C508	87-010-112-049		CAP, E 100-16	S320	87-036-397-089		SW, TACT SKQNA B
C601	87-010-405-049		CAP, E 10-50 SME	S321	87-036-397-089		SW, TACT SKQNA B
C602	87-010-248-049		CAP, E 220-10 SME	S322	87-036-397-089		SW, TACT SKQNA B
C603	87-010-196-089		C-CAP, S 0.1-25 F	S323	87-036-397-089		SW, TACT SKQNA B
C604	87-010-186-089		C-CAP, S 4700P-50 B	S324	87-036-397-089		SW, TACT SKQNA B
C605	87-010-545-049		CAP, E 0.22-50 SME	S325	87-036-397-089		SW, TACT SKQNA B
C606	87-010-321-089		C-CAP, S 82P-50 CH	S326	87-036-397-089		SW, TACT SKQNA B
C607	87-010-196-089		C-CAP, S 0.1-25 F	S327	87-036-397-089		SW, TACT SKQNA B
C608	87-010-196-089		C-CAP, S 0.1-25 F	S328	87-036-397-089		SW, TACT SKQNA B
C609	87-010-177-089		C-CAP, S 820P-50 SL	S329	87-036-397-089		SW, TACT SKQNA B
C651	87-010-494-049		CAP, E 1-50 GAS	S330	87-036-397-089		SW, TACT SKQNA B
C652	87-010-196-089		C-CAP, S 0.1-25 F	VR601	81-MX4-637-019		VR 10KA RK11K1130
C653	87-010-491-049		CAP, E 0.22-50 GAS	VR801	86-NT1-634-019		VR, 100K W-L20
C654	87-010-196-089		C-CAP, S 0.1-25 F				
C715	87-010-553-049		CAP, E 47-16 GAS				
				MVR C.B			
C851	87-010-196-089		C-CAP, S 0.1-25 F	C451	87-010-176-089		C-CAP, S 680P-50 SL
C853	87-010-406-049		CAP, E 22-50 SME	C452	87-010-176-089		C-CAP, S 680P-50 SL
C854	87-010-560-049		CAP, E 10-50 GAS	C457	87-010-405-049		CAP, E 10-50 SME
EMI600	87-008-372-089		FLTR, EMI BL 01RN1	C458	87-010-405-049		CAP, E 10-50 SME
FL301	86-NF6-609-019		FL, 8-ST-18GK	C459	87-016-456-049		CAP, E 22-16 LLA
FT101	85-NF5-615-019		CABLE, FFC 15P-1.25	C460	87-010-112-049		CAP, E 100-16
FT102	88-913-261-119		CABLE FFC, 13P-1.25	C461	87-016-081-089		C-CAP, S 0.1-16 RK
J601	82-NF7-630-019		JACK, 3.5 MO				

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
C462	87-010-260-049		CAP,E 47-25 SME	C894	87-012-358-089		C-CAP,S 0.47-10FZ
C464	87-016-472-049		CAP,E 22-16 SME (K)	FT103	88-906-201-119		FF-CABLE,6P 1.25
C465	87-010-263-049		CAP,E 100-10	L871	87-005-440-089		COIL,47UH FLR50
C466	87-016-081-089		C-CAP,S 0.1-16 RK	MVR771	86-NF6-651-019		VR,MOT 50KBX4EUW
C467	87-010-378-049		CAP,E 10-16	R477	87-025-407-089		RES,M/F 100K-1/8W
C468	87-010-378-049		CAP,E 10-16				
C469	87-010-378-049		CAP,E 10-16	KEY C.B			
C470	87-010-378-049		CAP,E 10-16				
C471	87-010-378-049		CAP,E 10-16	S308	87-036-397-089		SW,TACT SKQNAB
C472	87-010-101-089		CAP,E 220-16 SME	S309	87-036-397-089		SW,TACT SKQNAB
C473	87-012-140-089		C-CAP,S 470P-50 CH	S310	87-036-397-089		SW,TACT SKQNAB
C474	87-010-187-089		C-CAP,S 5600P-50 B	S311	87-036-397-089		SW,TACT SKQNAB
C475	87-010-186-089		C-CAP,S 4700P-50 CH	S312	87-036-397-089		SW,TACT SKQNAB
C478	87-012-394-089		C-CAP,0.68-16,R,K				
C479	87-012-393-089		C-CAP,S 0.22-16,R,K	AMP C.B			
C480	87-012-393-089		C-CAP,S 0.22-16,R,K	C561	87-010-177-089		C-CAP,S 820P-50 SL
C481	87-010-404-049		CAP,E 4.7-50 SME	C562	87-010-177-089		C-CAP,S 820P-50 SL
C482	87-010-404-049		CAP,E 4.7-50 SME	C563	87-010-402-049		CAP E2.2-50 SME
C483	87-012-393-089		C-CAP,S 0.22-16,R,K	C564	87-010-402-049		CAP E2.2-50 SME
C484	87-012-393-089		C-CAP,S 0.22-16,R,K	C565	87-010-378-049		CAP,E 10-16
C485	87-016-081-089		C-CAP,S 0.1-16 RK	C566	87-010-378-049		CAP,E 10-16
C488	87-016-081-089		C-CAP,S 0.1-16 RK	C569	87-010-147-089		C-CAP,S 3P-50 CH
C489	87-016-081-089		C-CAP,S 0.1-16 RK	C570	87-010-147-089		C-CAP,S 3P-50 CH
C492	87-016-081-089		C-CAP,S 0.1-16 RK	C571	87-012-361-089		C-CAP,S 0.056-25 Y
C495	87-018-134-089		CAP,TC-U 0.01-16 NYU	C572	87-012-361-089		C-CAP,S 0.056-25 Y
C671	87-010-402-049		CAP,E 2.2-50 SME	C573	87-010-196-089		C-CAP,S 0.1-25 F
C672	87-010-402-049		CAP,E 2.2-50 SME	C574	87-010-196-089		C-CAP,S 0.1-25 F
C673	87-010-401-049		CAP,E 1-50 SME	C575	87-010-193-089		C-CAP,S 0.033-25 F
C674	87-010-401-049		CAP,E 1-50 SME	C576	87-010-193-089		C-CAP,S 0.033-25 F
C675	87-010-263-049		CAP,E 100-10	C577	87-010-197-089		C-CAP,S 0.01-25 B
C676	87-010-384-049		CAP,E 100-25 SME	C578	87-010-194-089		C-CAP,S 0.047-25 F
C701	87-010-993-089		C-CAP,S 0.056-25 B	C581	87-010-405-049		CAP,E 10-50 SME
C702	87-010-993-089		C-CAP,S 0.056-25 B	C582	87-010-398-099		CAP,E 2200-35V
C703	87-016-460-089		C-CAP,S 0.22-16 B	C583	87-010-398-099		CAP,E 2200-35V
C704	87-016-460-089		C-CAP,S 0.22-16 B	C584	87-012-368-089		C-CAP,S 0.1-50F
C705	87-016-081-089		C-CAP,S 0.1-16 RK	C585	87-010-196-089		C-CAP,S 0.1-25 F
C706	87-010-260-049		CAP,E 47-25 SME	J561	87-099-803-019		JACK,PIN 3P OWR
C707	87-010-182-089		C-CAP,S 2200P-50 B	L561	87-003-383-019		COIL,1UH-S
C708	87-010-182-089		C-CAP,S 2200P-50 B	L562	87-003-383-019		COIL,1UH-S
C709	87-010-545-049		CAP E 0.22-50 SME	R585	87-022-050-089		RESIS METAL 1W-0.22J
C710	87-010-545-049		CAP E 0.22-50 SME	R586	87-022-050-089		RESIS METAL 1W-0.22J
C711	87-010-401-049		CAP,E 1-50 SME				
C712	87-010-401-049		CAP,E 1-50 SME	AC C.B			
C713	87-010-260-049		CAP,E 47-25 SME				
C714	87-010-405-049		CAP,E 10-50 SME	C103	87-010-197-089		C-CAP,S 0.1-25 B
C716	87-018-209-019		CAP,TC-U 0.1-50 F	R111	87-022-184-089		RES,METAL 0.33-1W
C717	87-010-401-049		CAP,E 1-50 SME	R112	87-022-184-089		RES,METAL 0.33-1W
C718	87-010-401-049		CAP,E 1-50 SME	△PR101	87-026-690-089		PROTECTOR,5A 125V
C773	87-010-198-089		C-CAP,S 0.022-25 B	△PR102	87-026-690-089		PROTECTOR,5A 125V
C871	87-012-358-089		C-CAP,S 0.47-10FZ				
C872	87-010-179-089		C-CAP,S 1200P-50 B	PT C.B			
C873	87-010-180-089		C-CAP,S 1500P-50 B				
C874	87-010-180-089		C-CAP,S 1500P-50 B	△	82-304-743-019		TERMINAL,1P
C875	87-010-177-089		C-CAP,S 820P-50 SL	△F101	87-035-363-019		FUSE,1.25A 250V T E
C876	87-010-180-089		C-CAP,S 1500P-50 B	△FC101	87-033-213-089		CLAMP FUSE SMK
C877	87-010-263-049		CAP,E 100-10	△FC102	87-033-213-089		CLAMP FUSE SMK
C878	87-010-194-089		C-CAP,S 0.047-25 F	△PT101	86-NFT-635-019		PT,6NF-26 EK
C879	87-012-141-089		C-CAP,S 0.22-16 F				
C880	87-010-179-089		C-CAP,S 1200P-50 B	DECK C.B			
C881	87-010-426-089		C-CAP,S 0.012-25 B				
C883	87-010-404-049		CAP,E 4.7-50 SME	SFR1	87-024-581-089		SFR,3.3K DIA 6H
C884	87-010-263-049		CAP,E 100-10	SOL1	82-ZM1-618-310		SOL ASSY,27
C885	87-010-196-089		C-CAP,S 0.1-25 F	SOL2	82-ZM1-626-310		SOL ASSY,27K
C886	87-012-156-089		C-CAP,S 220P-50 CH	SW1	87-036-378-019		SW,PUSH 1-1-1 SH2
C887	87-010-319-089		C-CAP,S 56P-50 CH	SW2	87-036-378-019		SW,PUSH 1-1-1 SH2
C888	87-010-319-089		C-CAP,S 56P-50 CH	SW3	87-036-378-019		SW,PUSH 1-1-1 SH2
C889	87-010-196-089		C-CAP,S 0.1-25 F	SW4	87-036-378-019		SW,PUSH 1-1-1 SH2
C890	87-012-358-089		C-CAP,S 0.47-10 F	SW5	87-036-378-019		SW,PUSH 1-1-1 SH2
C891	87-010-197-089		C-CAP,S 0.01-25 B	SW6	87-036-378-019		SW,PUSH 1-1-1 SH2
C892	87-010-179-089		C-CAP,S 1200P-50 B	SW8	87-036-378-019		SW,PUSH 1-1-1 SH2

TRANSISTOR ILLUSTRATION

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
HEAD-1	C.B		
HEAD-2	C.B		



E C B

2SA1296
2SC3266
2SC2878
KTA1266
KTC3198



E C B

DTA114YS
DTA114ES
DTA144ES
DTA143ES
DTC144ES
DTA124ES
2SC1740(S-RS)



S G D

2SK246



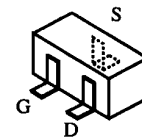
E C B

2SA952
2SD655
2SC2001(K)
2SA1015GR



E C B

2SA1318
2SC3331

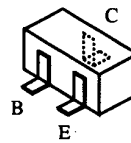


2SK543
2SK360



B C E

2SB1370

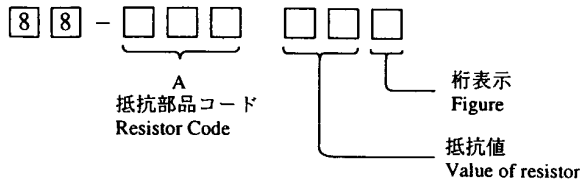


B C E

2SA1162
2SC2712
2SC2714

○ 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

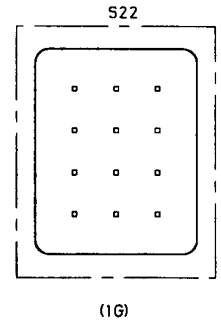
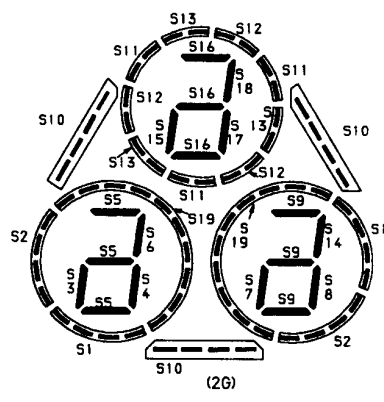
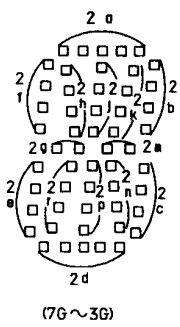
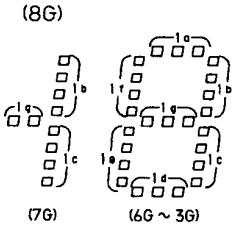
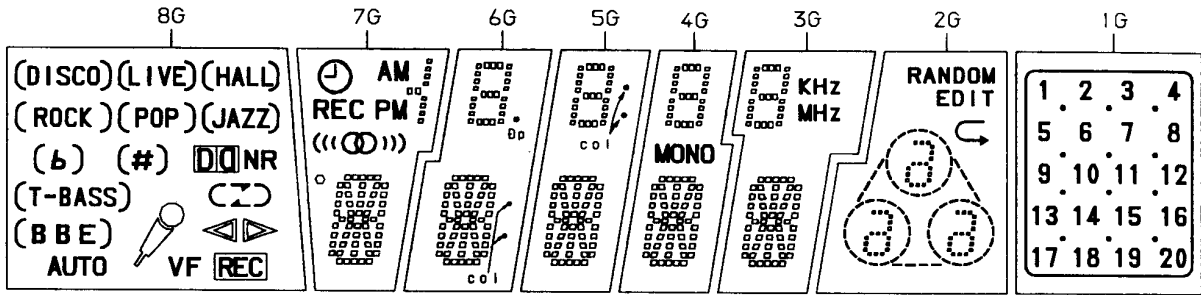


チップ抵抗
Chip resistor

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

FL GRID ASSIGNMENT & ANODE CONNECTION

FL, 8-ST-18GK
FL GRID ASSIGNMENT

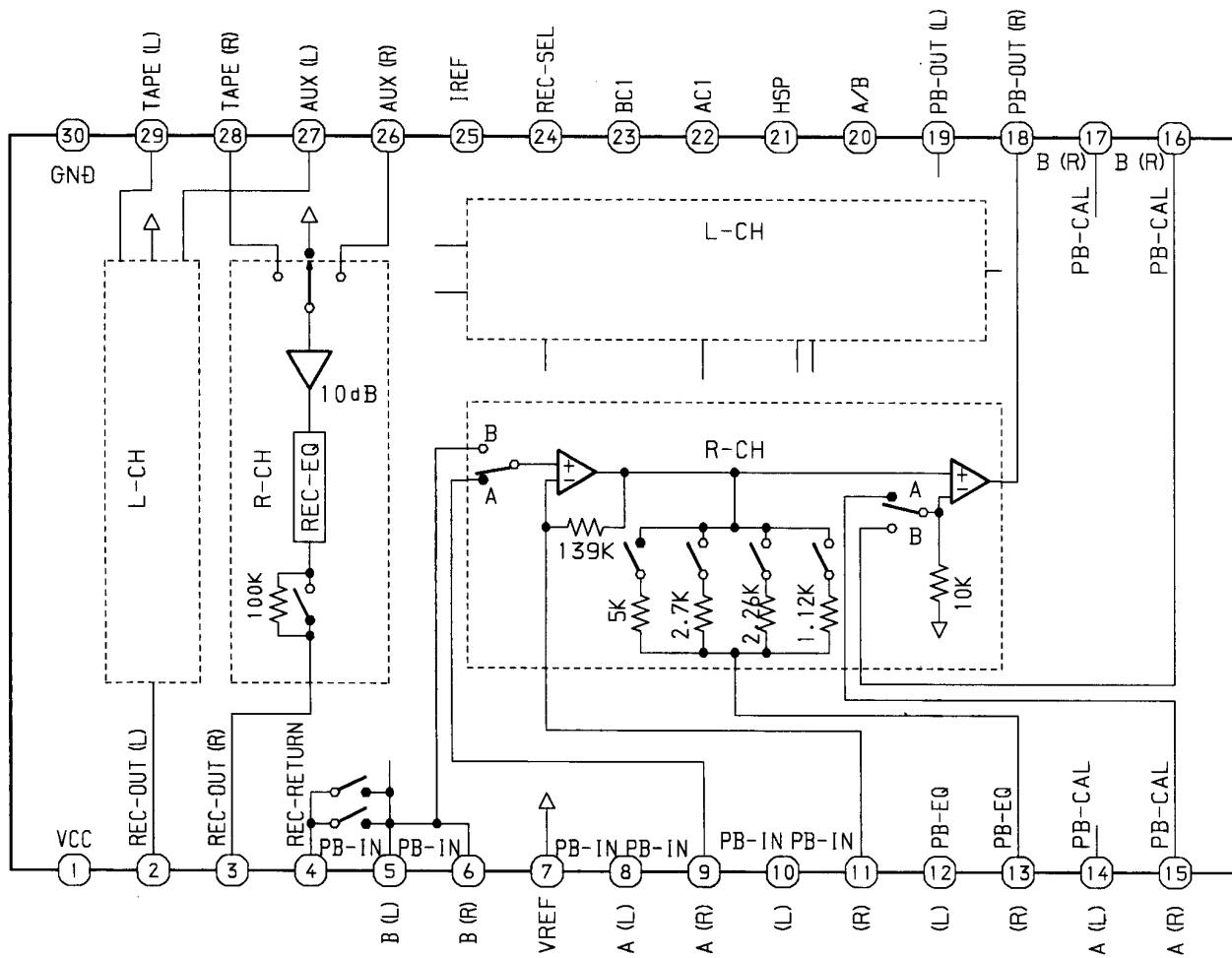


ANODE CONNECTION

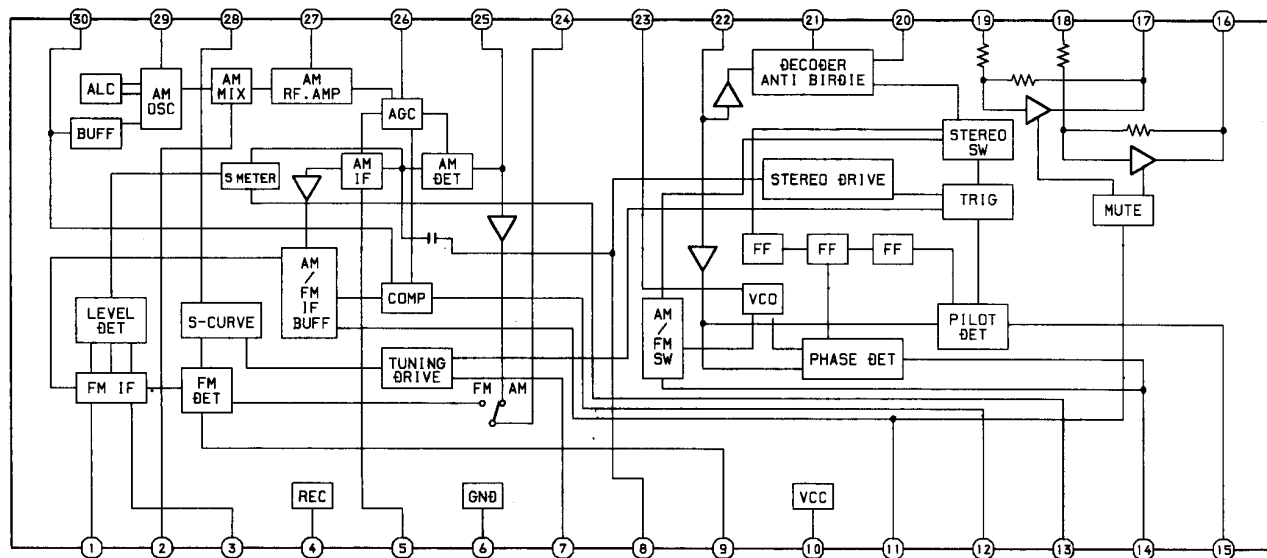
	8G	7G	6G	5G	4G	3G	2G	1G
P1	(T-BASS)	2d	2d	2d	2d	2d	S1	20
P2	(BBE)	2j, 2p	2j, 2p	2j, 2p	2j, 2p	2j, 2p	S2	19
P3	(b)	2n	2n	2n	2n	2n	S3	18
P4	AUTO	2r	2r	2r	2r	2r	S4	17
P5	VF	2c	2c	2c	2c	2c	S5	16
P6	(DISCO)	2e	2e	2e	2e	2e	S6	15
P7	(LIVE)	2m	2m	2m	2m	2m	S7	14
P8	(HALL)	2g	2g	2g	2g	2g	S8	13
P9	REC	2f	2f	2f	2f	2f	S9	12
P10	(#)	2b	2b	2b	2b	2b	S10	11
P11	b #	2k	2k	2k	2k	2k	S11	10
P12	◁	2h	2h	2h	2h	2h	S12	9
P13	▷	2a	2a	2a	2a	2a	S13	8
P14	∩	○	col	col (below)	MONO	MHZ	S14	7
P15	↔	((⊙))	∅p	col (upper)	-	KHZ	S15	6
P16)	REC	1d	1d	1d	1d	S16	5
P17	⊞ NR	⊞	1e	1e	1e	1e	S17	4
P18	(ROCK)	PM	1c	1c	1c	1c	S18	3
P19	(POP)	AM	1g	1g	1g	1g	S19	2
P20	(JAZZ)	1q	1f	1f	1f	1f	↻	1
P21	S20	1b, 1c	1b	1b	1b	1b	EDIT	S22
P22	S21	-	1a	1a	1a	1a	RANDOM	-
P23	BBE	-	-	-	-	-	-	-

IC BLOCK DIAGRAM - 1

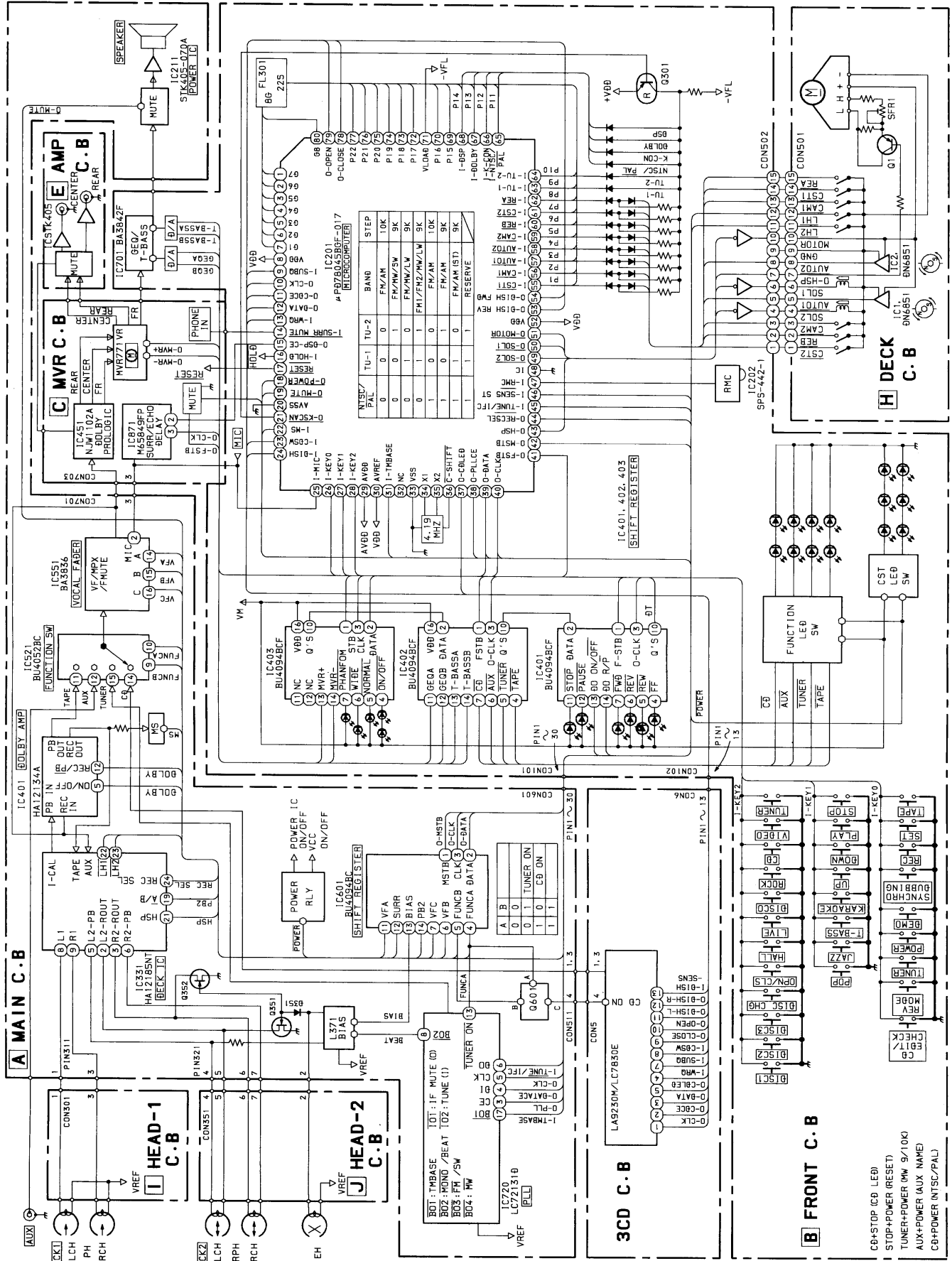
IC, HA12185NT



IC, LA1836L

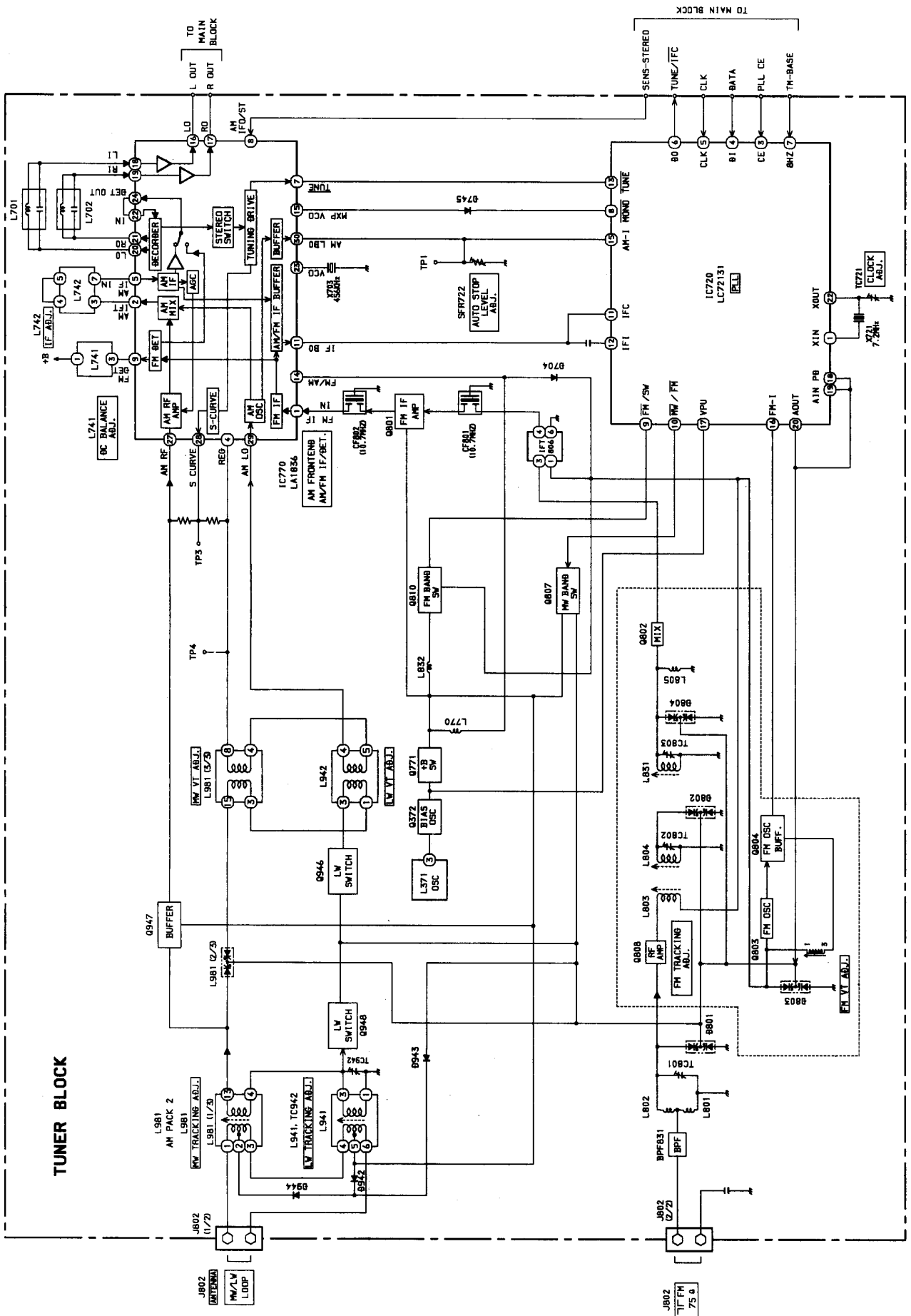


BLOCK DIAGRAM - 1 (MAIN / FRONT)



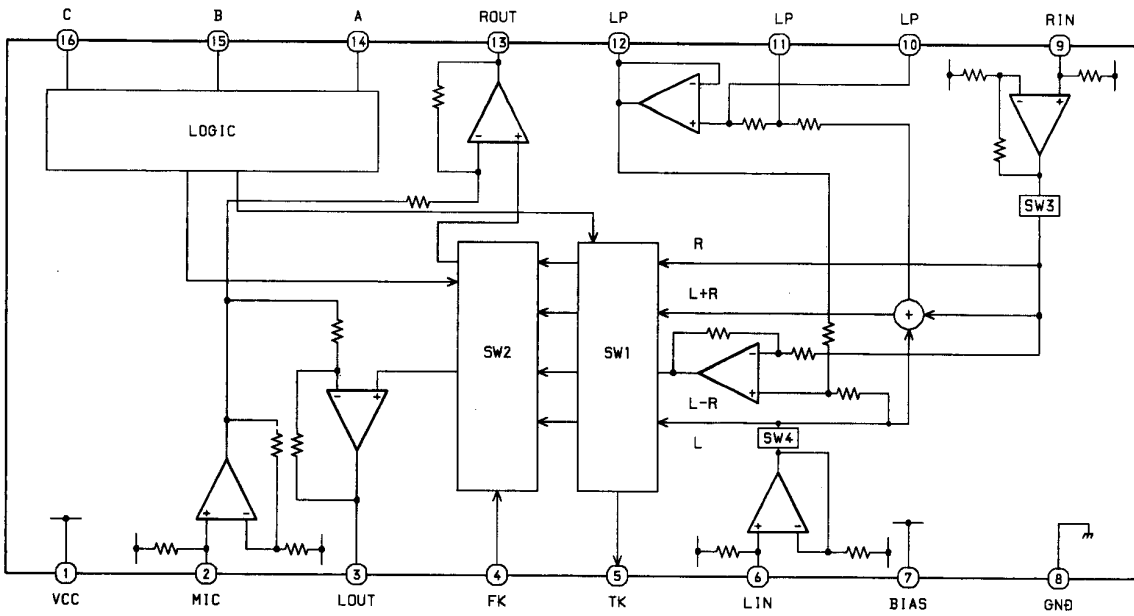
CB+STOP (C0 LED)
 STOP+POWER (RESET)
 TUNER+POWER (RW 9/10X)
 AUX+POWER (AUX NAME)
 CB+POWER (NTSC/PAL)

BLOCK DIAGRAM - 2 (TUNER)

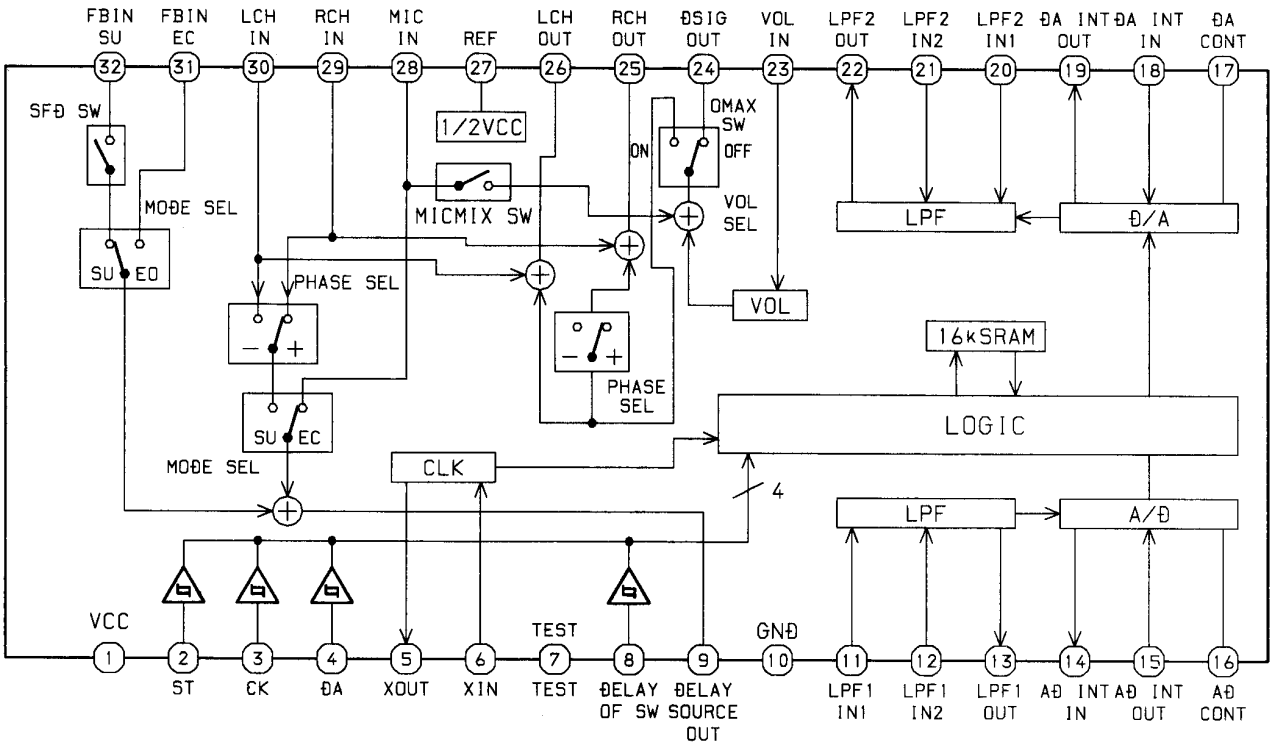


IC BLOCK DIAGRAM - 2

IC, BA3836



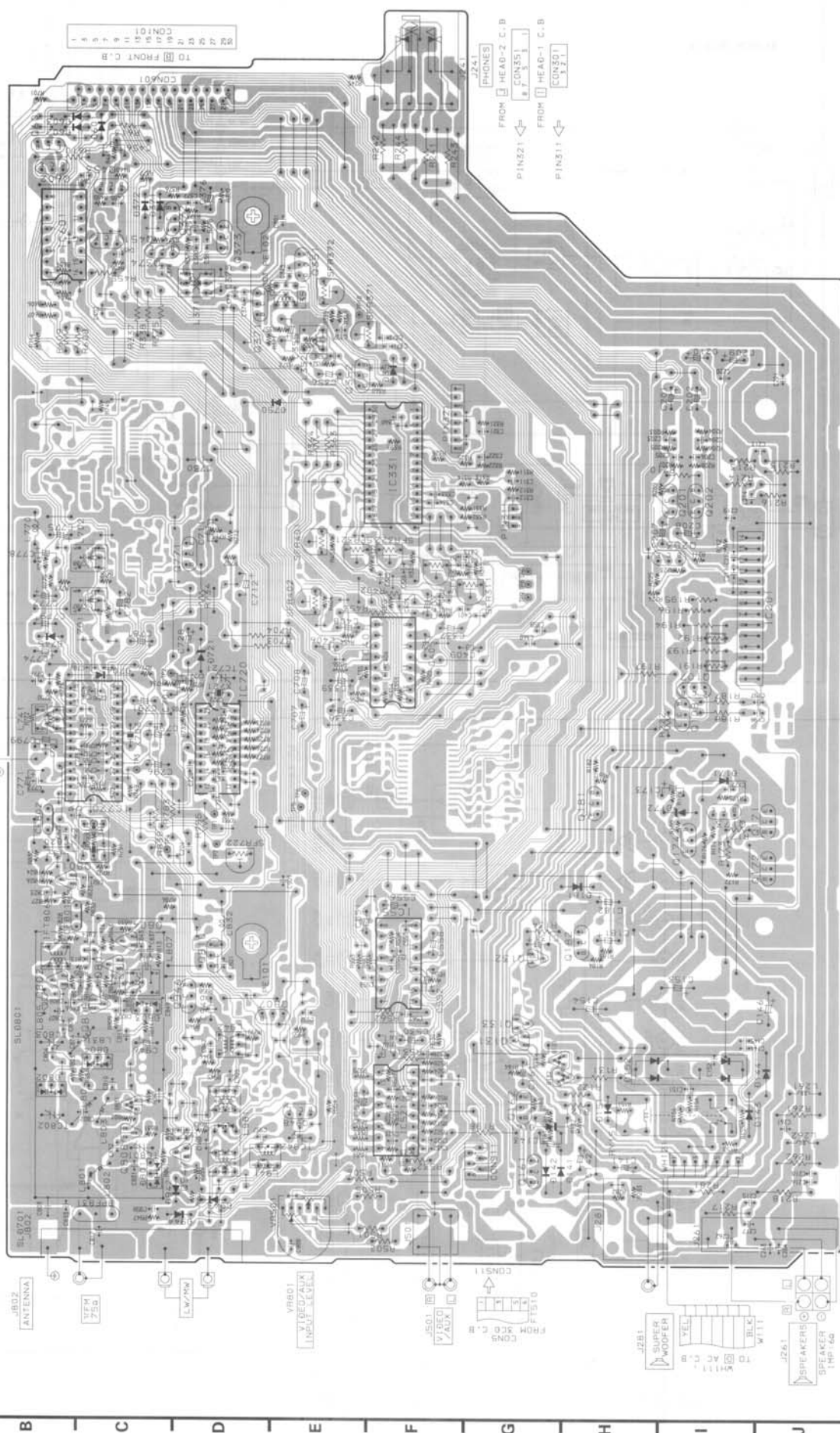
IC, M65849FP



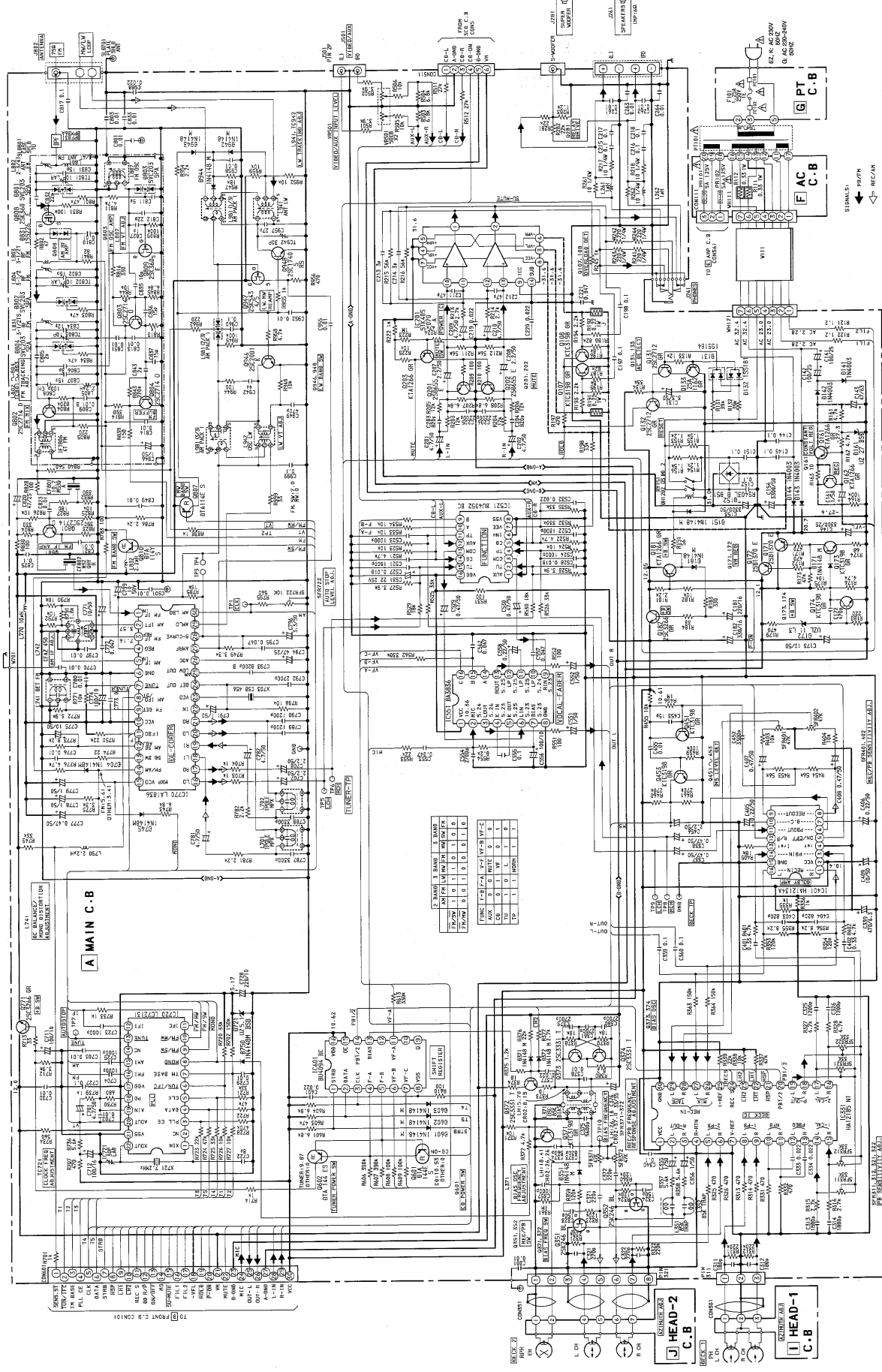
1 2 3 4 5 6 7 8 9 10 11 12 13 14

A

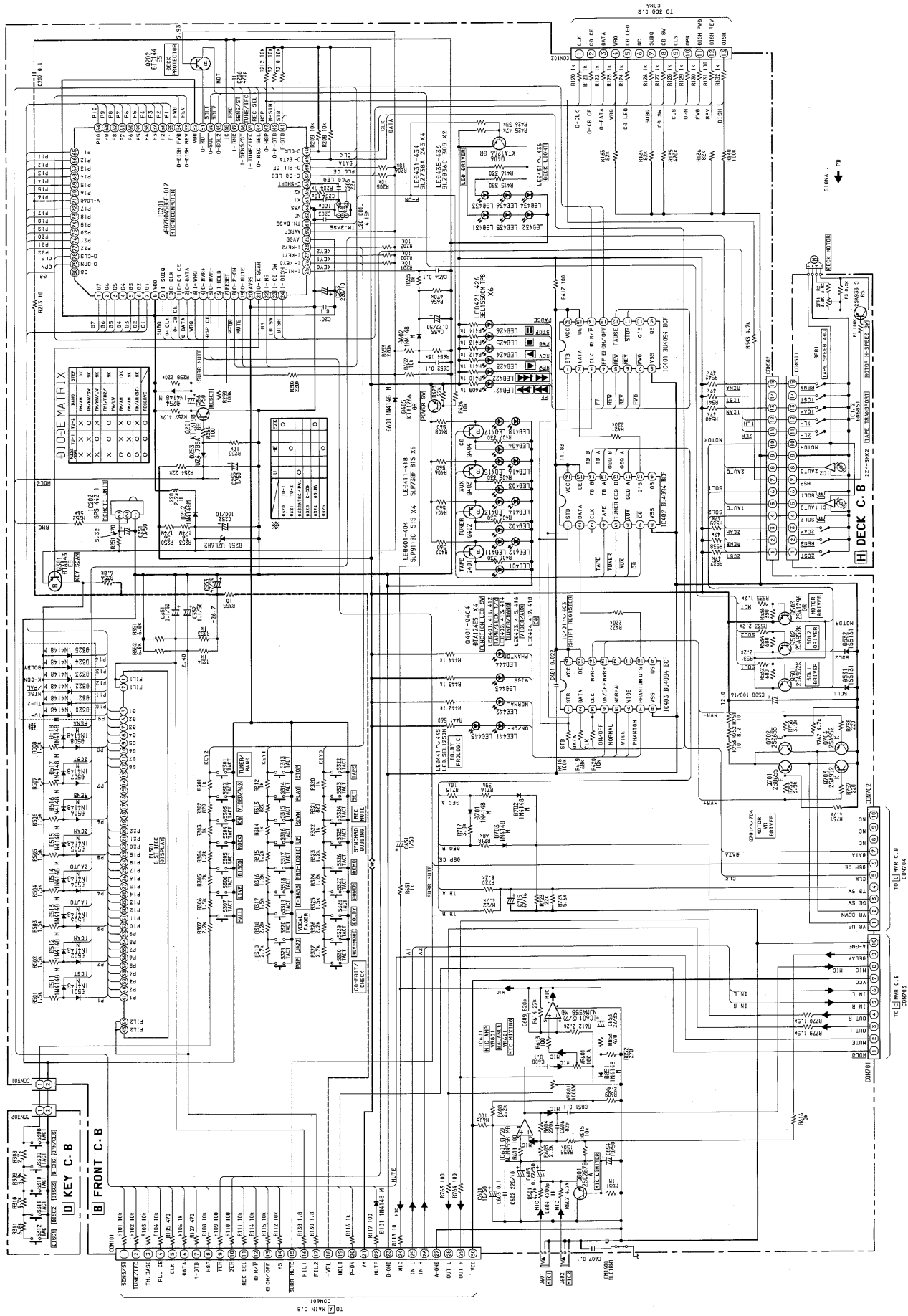
A MAIN C.B.



SCHEMATIC DIAGRAM - 1 (MAIN)

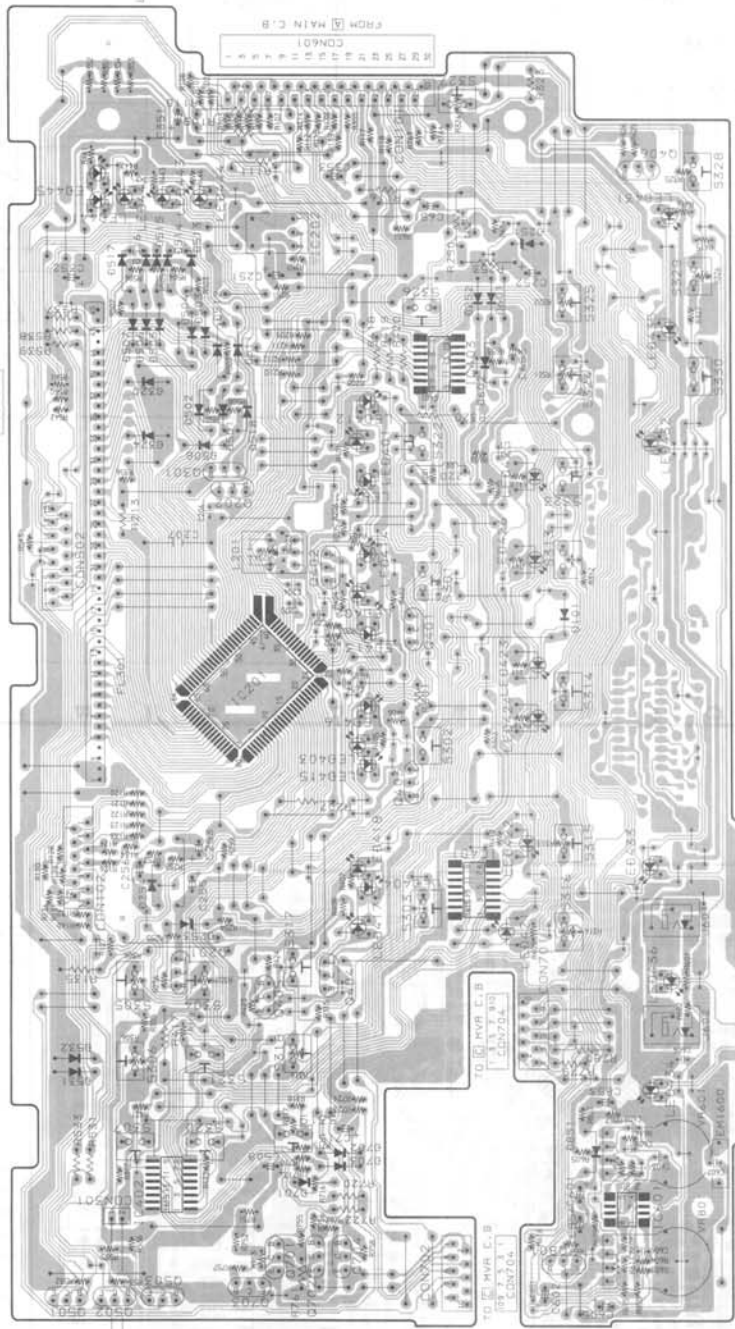


SCHEMATIC DIAGRAM-2 (FRONT)



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

B FRONT C.B.



TO BECK C.B.
CON501
F1101
F1102

TO BECK C.B.
CON46
F1102

TO DISPLAY
CON502

FROM [D] KEY C.B. CON502
F1101 F1102
F1103 F1104
F1105 F1106
F1107 F1108
F1109 F1110
F1111 F1112
F1113 F1114
F1115 F1116
F1117 F1118
F1119 F1120
F1121 F1122
F1123 F1124
F1125 F1126
F1127 F1128
F1129 F1130
F1131 F1132
F1133 F1134
F1135 F1136
F1137 F1138
F1139 F1140
F1141 F1142
F1143 F1144
F1145 F1146
F1147 F1148
F1149 F1150
F1151 F1152
F1153 F1154
F1155 F1156
F1157 F1158
F1159 F1160
F1161 F1162
F1163 F1164
F1165 F1166
F1167 F1168
F1169 F1170
F1171 F1172
F1173 F1174
F1175 F1176
F1177 F1178
F1179 F1180
F1181 F1182
F1183 F1184
F1185 F1186
F1187 F1188
F1189 F1190
F1191 F1192
F1193 F1194
F1195 F1196
F1197 F1198
F1199 F1200

TO BECK C.B.
CON47

TO BECK C.B.
CON48

TO BECK C.B.
CON49

TO BECK C.B.
CON50

TO BECK C.B.
CON51

TO BECK C.B.
CON52

TO BECK C.B.
CON53

TO BECK C.B.
CON54

TO BECK C.B.
CON55

TO BECK C.B.
CON56

TO BECK C.B.
CON57

TO BECK C.B.
CON58

TO BECK C.B.
CON59

TO BECK C.B.
CON60

TO BECK C.B.
CON61

TO BECK C.B.
CON62

TO BECK C.B.
CON63

TO BECK C.B.
CON64

TO BECK C.B.
CON65

TO BECK C.B.
CON66

TO BECK C.B.
CON67

TO BECK C.B.
CON68

TO BECK C.B.
CON69

TO BECK C.B.
CON70

TO BECK C.B.
CON71

TO BECK C.B.
CON72

TO BECK C.B.
CON73

TO BECK C.B.
CON74

TO BECK C.B.
CON75

TO BECK C.B.
CON76

TO BECK C.B.
CON77

TO BECK C.B.
CON78

TO BECK C.B.
CON79

TO BECK C.B.
CON80

TO BECK C.B.
CON81

TO BECK C.B.
CON82

TO BECK C.B.
CON83

TO BECK C.B.
CON84

TO BECK C.B.
CON85

TO BECK C.B.
CON86

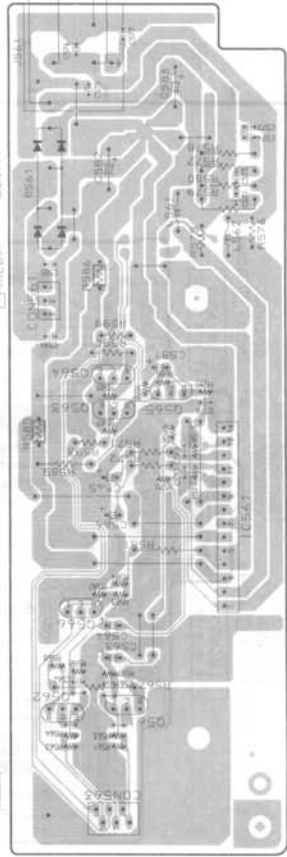
TO BECK C.B.
CON87

TO BECK C.B.
CON88

TO BECK C.B.
CON89

TO BECK C.B.
CON90

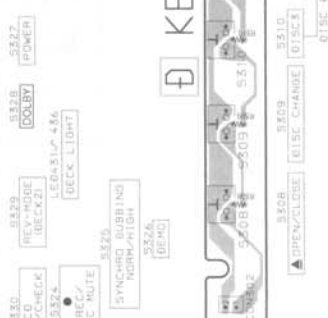
E AMP C.B.



TO MVA C.B.
CON671
F1105

E AMP C.B.

D KEY C.B.



TO MVA C.B.
CON671

TO MVA C.B.
CON672

TO MVA C.B.
CON673

TO MVA C.B.
CON674

TO MVA C.B.
CON675

TO MVA C.B.
CON676

TO MVA C.B.
CON677

TO MVA C.B.
CON678

TO MVA C.B.
CON679

TO MVA C.B.
CON680

TO MVA C.B.
CON681

TO MVA C.B.
CON682

TO MVA C.B.
CON683

TO MVA C.B.
CON684

TO MVA C.B.
CON685

TO MVA C.B.
CON686

TO MVA C.B.
CON687

TO MVA C.B.
CON688

TO MVA C.B.
CON689

TO MVA C.B.
CON690

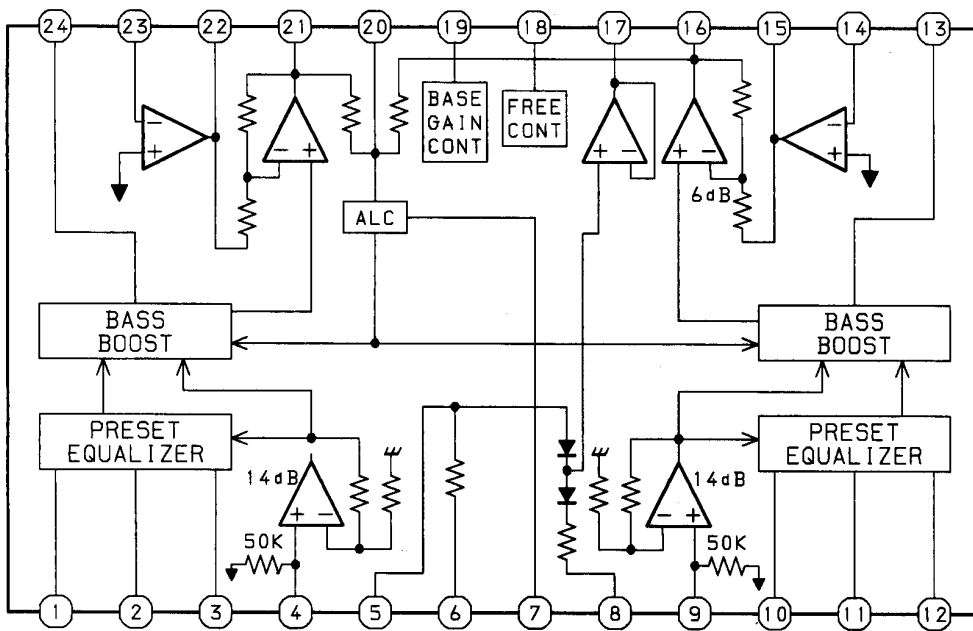
E AMP C.B.

D KEY C.B.

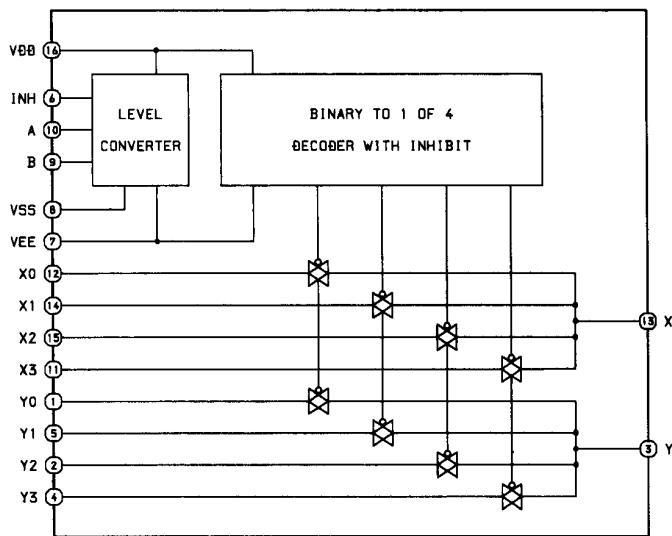
D KEY C.B.

IC BLOCK DIAGRAM - 3

IC, BA3842F



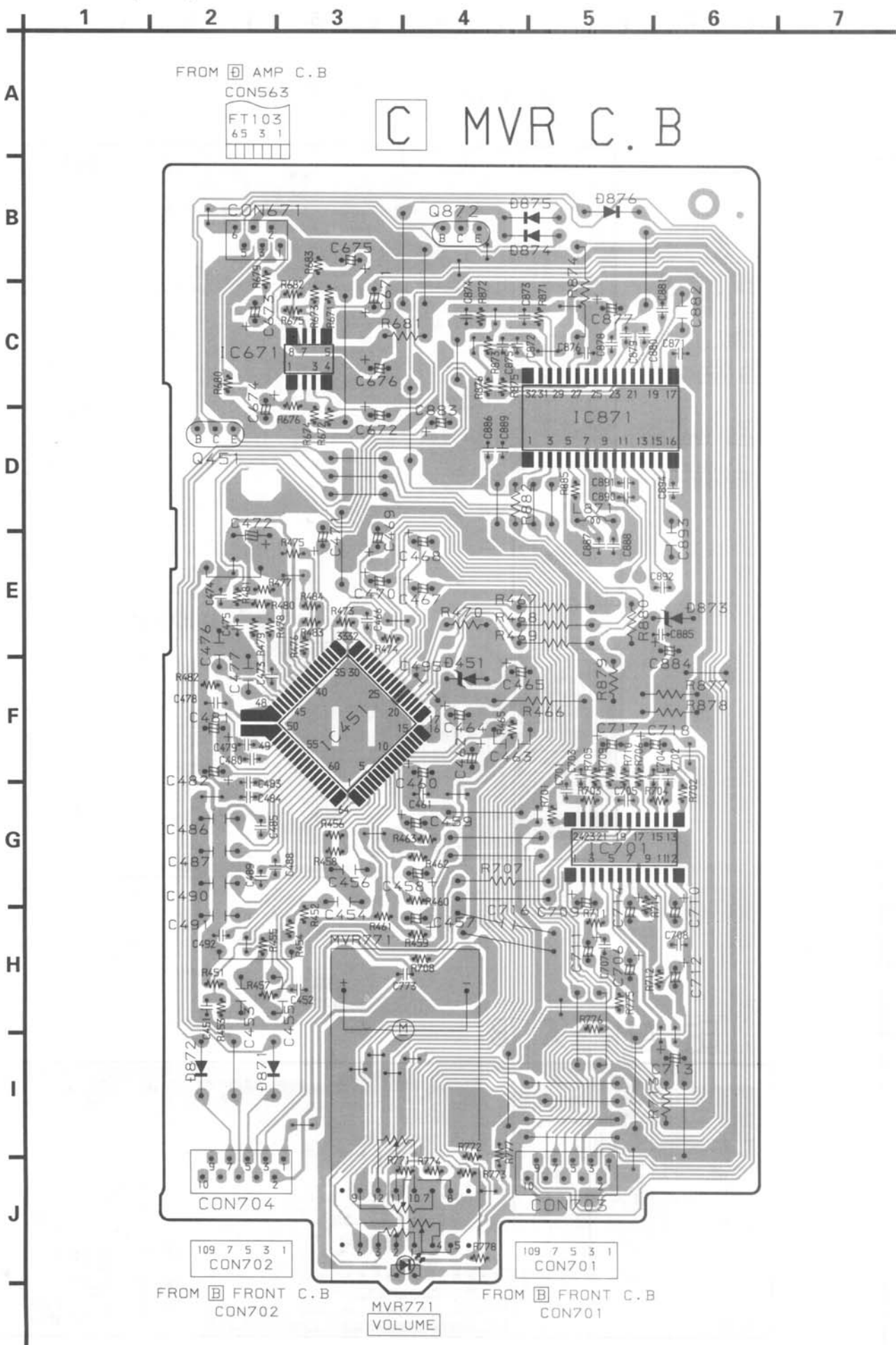
IC, BU4052BC



TRUTH TABLE

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

X: DON'T CARE.



FROM [B] AMP C.B
CON563
FT103
65 3 1

C MVR C.B

109 7 5 3 1
CON702

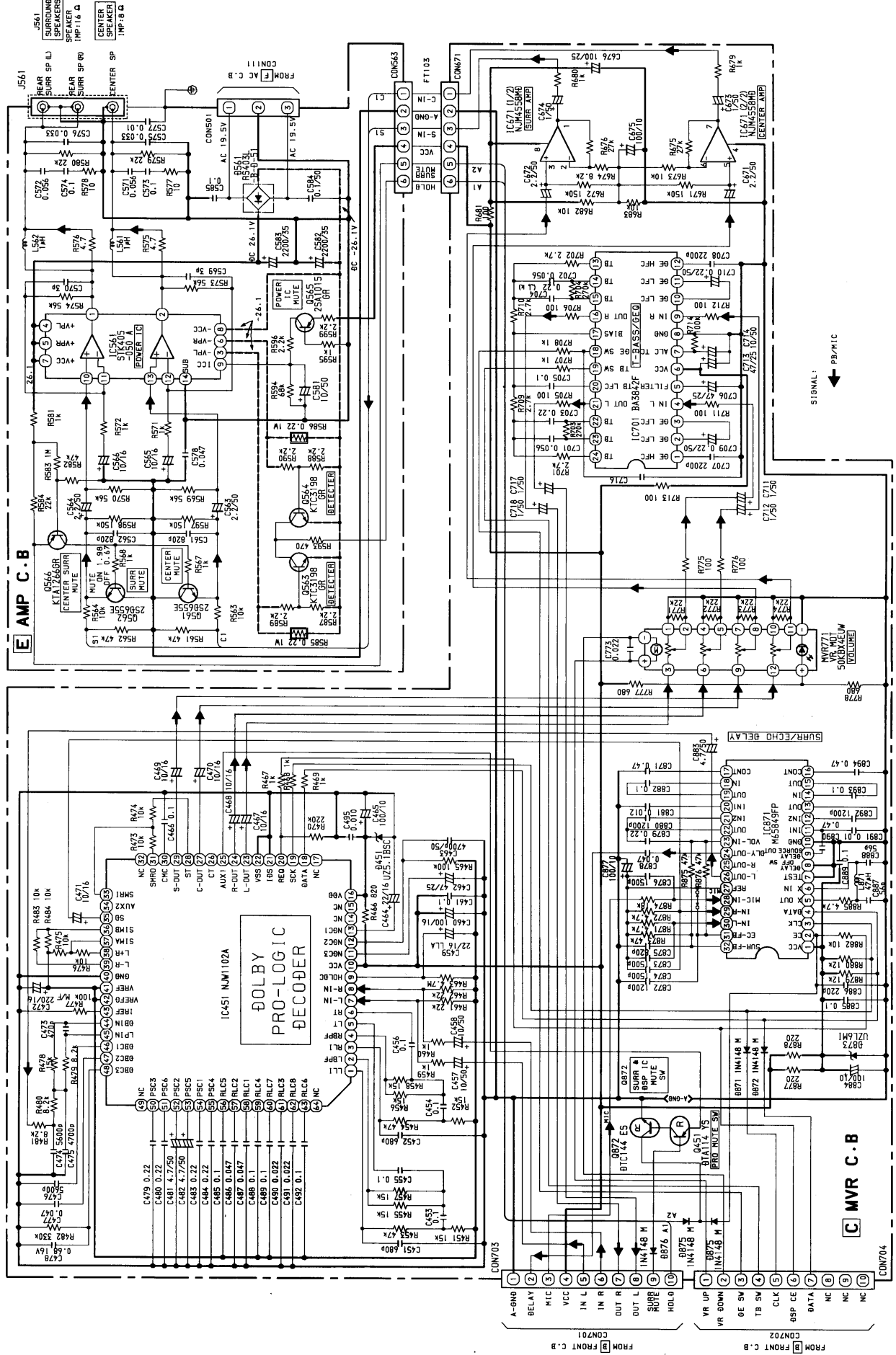
FROM [B] FRONT C.B
CON702

MVR771
VOLUME

109 7 5 3 1
CON701

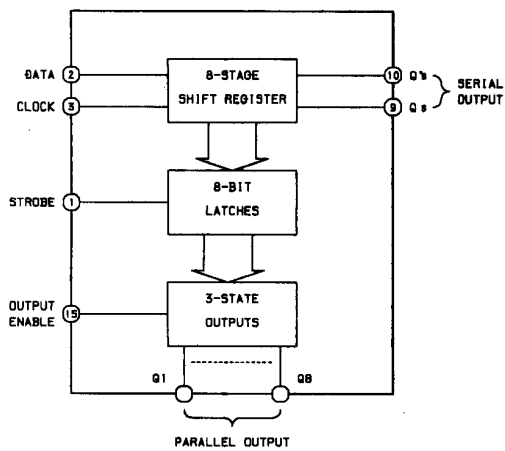
FROM [B] FRONT C.B
CON701

SCHEMATIC DIAGRAM - 3 (MVR/AMP)



IC BLOCK DIAGRAM - 4

IC, BU4094BC/BCF

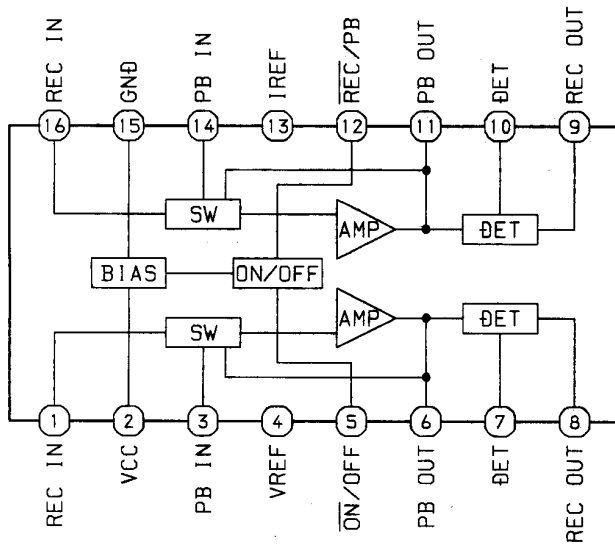


TRUTH TABLE

CLOCK	OUTPUT ENABLE	STROBE	DATA	PARALLEL OUTPUTS		SERIAL OUTPUTS	
				Q1	Qn	Qe	Q'e
	L	X	X	Z	Z	Q7	NO Chg.
	L	X	X	Z	Z	No Chg.	Qe
	H	L	X	No Chg.	No Chg.	Q7	No Chg.
	H	H	L	L	Qn-1	Q7	No Chg.
	H	H	H	H	Qn-1	Q7	No Chg.
	H	X	X	No Chg.	No Chg.	No Chg.	Qe

Z=High Impedance
X=Don't Care

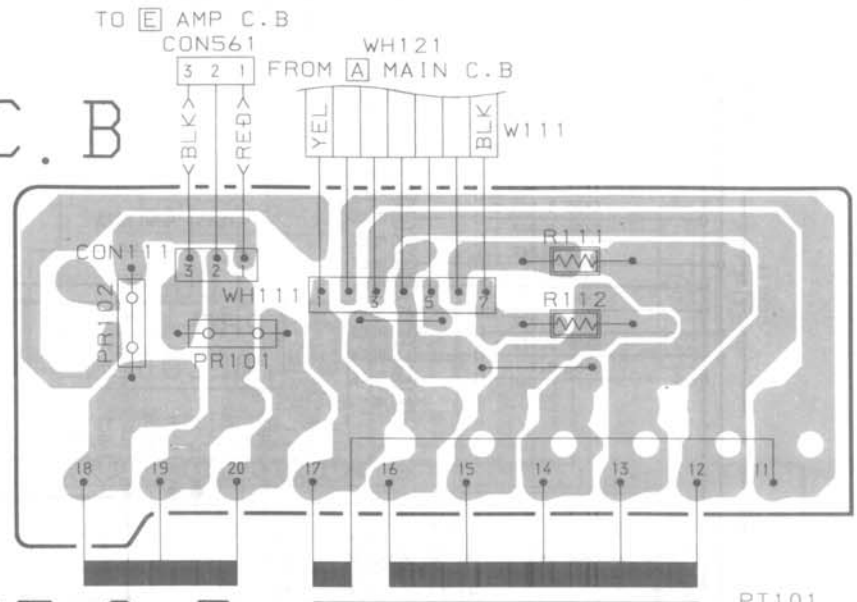
IC, HA12134A



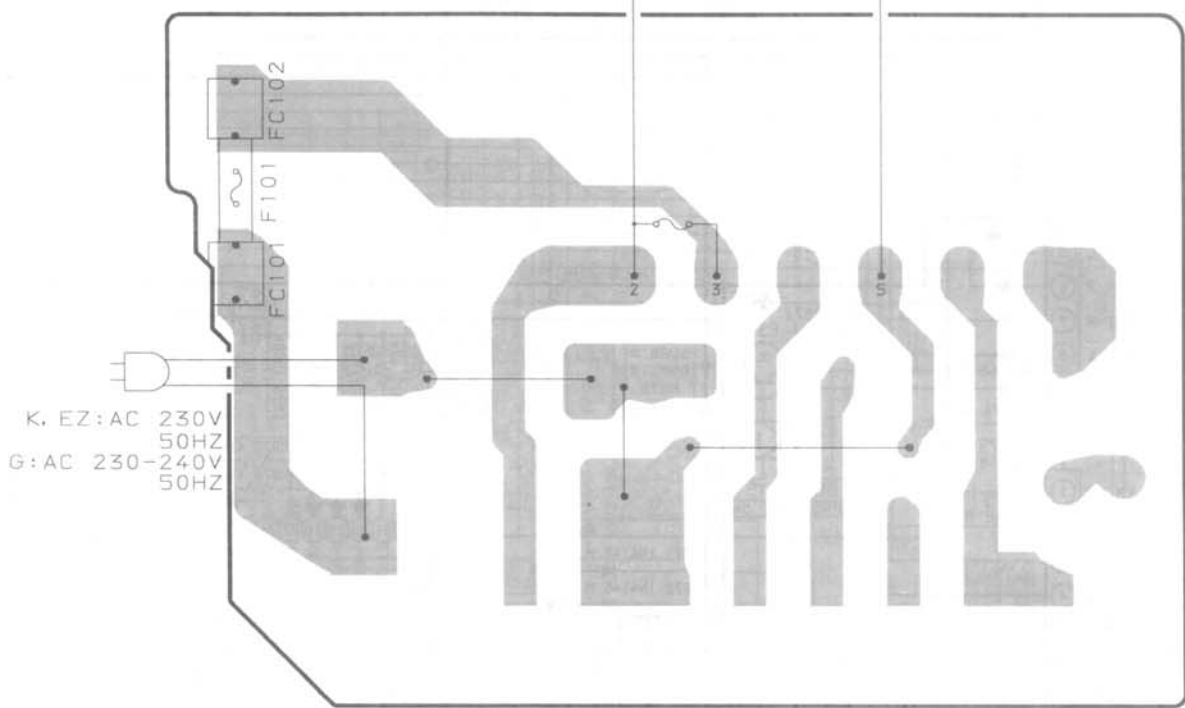
1 2 3 4 5 6 7

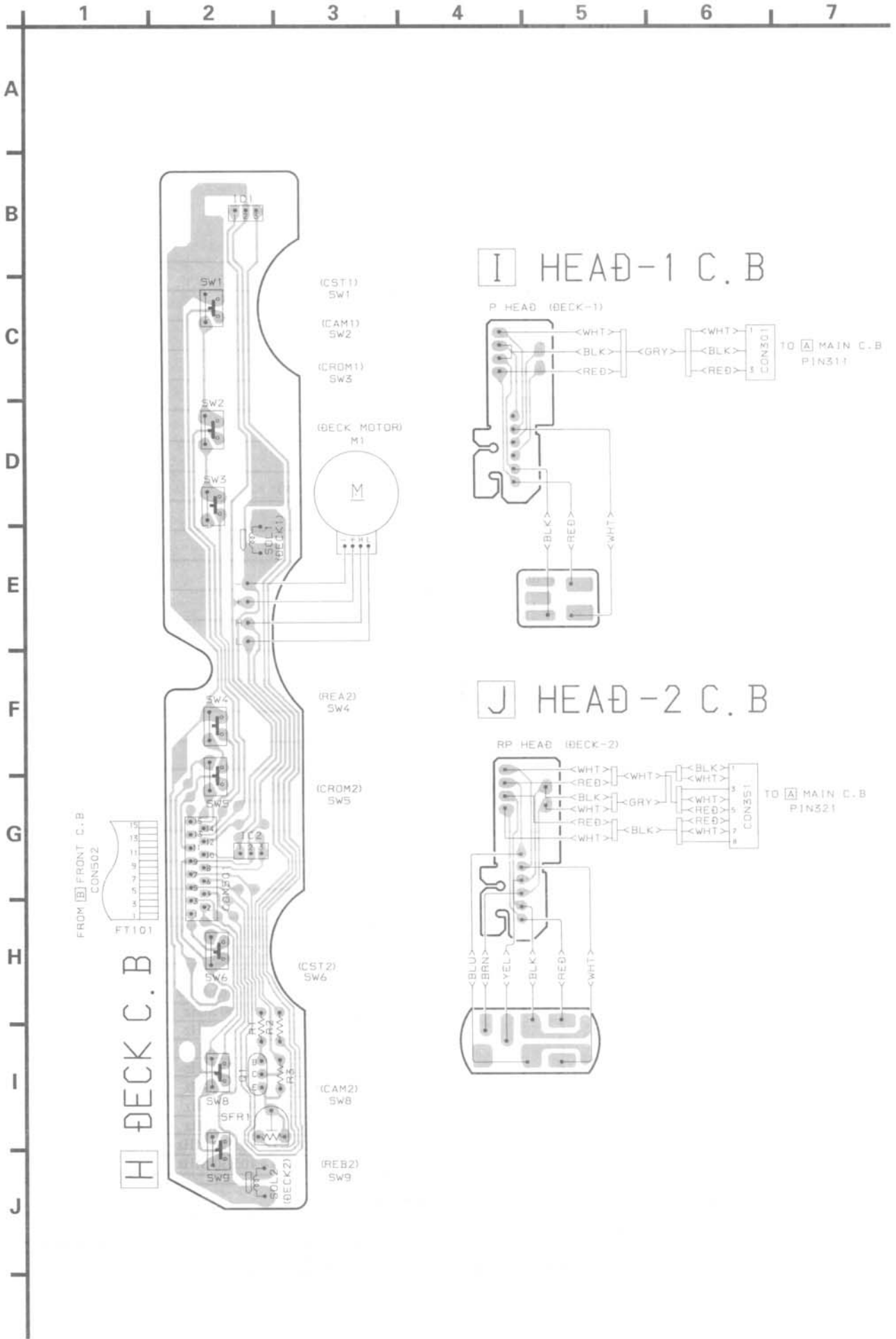
A
B
C
D
E
F
G
H
I
J

F AC C.B

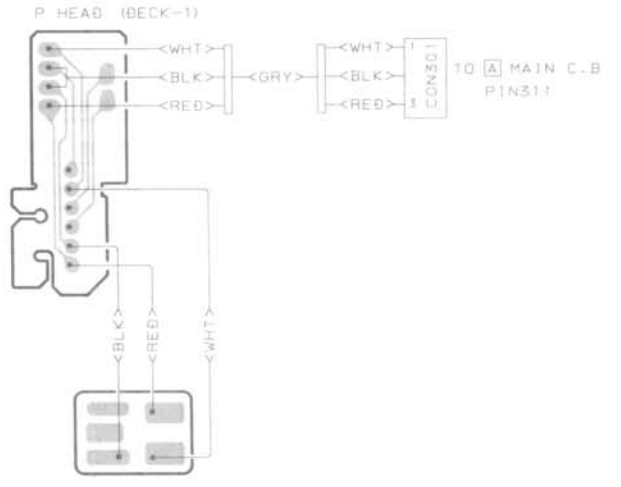


G PT C.B

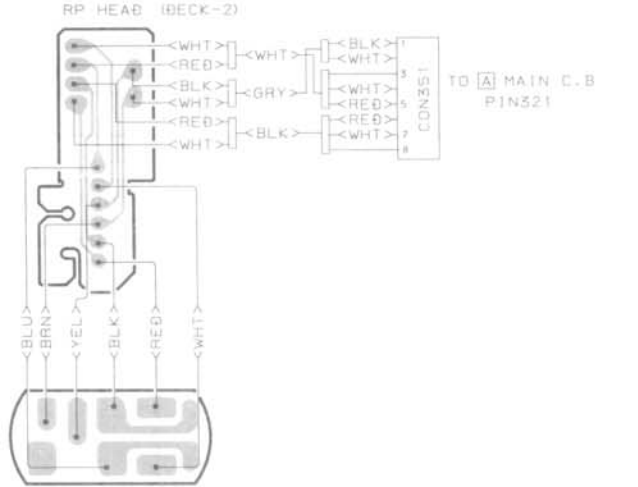




I HEAD-1 C.B.



J HEAD-2 C.B.



IC DESCRIPTION

IC, μ PD78045BGF-017

Pin No.	Pin Name	I/O	Description		
1~7	G7 ~G1	O	FL grid output. (G1~G7)		
8	VDD	-	Power supply terminal. (+5V)		
9	I-SUBQ	I/O	CD IC control input/output.		
10	O-CLK				
11	O-CD-CE				
12	O-DATA				
13	I-WRQ				
14	$\overline{\text{I-SURR MUTE}}$	I	"L" input DSP, PROLOGIC off.		
15	O-DSP CE	O	DSP data latch strobe output.		
16	$\overline{\text{I-HOLD}}$	I	Power failure detected input. (Low when Hold)		
17	$\overline{\text{RESET}}$	I	System reset input.		
18	$\overline{\text{O-POWER}}$	O	System power supply ON/OFF output.		
19	O-MUTE	O	System mute ON/OFF output.		
20	AVSS	-	GND.		
21	$\overline{\text{O-KSCAN}}$	O	Segment input permitted output. (Active low)		
22	I-MS	I	DECK MS detected A/D input.		
23	I-CD SW	I	CD Mechanical switch AD input.		
24	I-DISH	I	CD turntable photo sensor A/D input.		
25	I-MIC	I	Mic level A/D input for auto vocal fader.		
26	I-KEY0	I	KEY0 A/D input.		
27	I-KEY 1	I	KEY1 A/D input.		
28	I-KEY 2	I	KEY2 A/D input.		
29	AVDD	-	Power supply terminal.		
30	AVREF	I	Reference voltage. (+5V)		
31	I-TMBASE	I	Input a reference clock signal (8Hz) to the clock.		
32	NC	-	-		
33	VSS	-	GND.		
34	X1	I	4.19MHz clock oscillator input.		
35	X2	I	4.19MHz clock oscillator input.		
36	$\overline{\text{O-C-SHIFT}}$	O	Micro clock shift output.		
			LC oscillator, "L" clock shift.		
				SHIFT FREQUENCY	REQUIRED STEP
			SW	8.337 ~ 8.423 MHz	1 kHz
				12.506 ~ 12.634 MHz	
				16.675 ~ 16.845 MHz	
			FM (OIRT)	66.70 ~ 67.40 MHz	10 kHz
				70.85 ~ 71.60 MHz	
			FM	79.20 ~ 80.05 MHz	50 kHz
83.35 ~ 84.25 MHz					
87.50 ~ 88.45 MHz					
91.70 ~ 92.65 MHz					
95.85 ~ 96.90 MHz					
100.05 ~ 101.10 MHz					
104.20 ~ 105.30 MHz					
37	O-CD LED	O	CD flash window LED ON/OFF output.		
38	O-PLL-CE	O	PLL IC chip enable output.		
39	O-DATA	O	Main and front PLL shift register data output.		

Pin No.	Pin Name	I/O	Description					
40	O-CLK	O	Main and front PLL shift register clock output.					
41	O-FSTB	O	Front shift register data latch strobe output.					
42	O-MSTB	O	Main shift register data latch strobe output.					
43	O-HSP	O	Deck motor high speed ON/OFF output.					
44	O-REC SEL	O	Deck recording input switch.(HiZ-RMT, H-MIX, L-TAPE)					
			<table border="1"> <tr> <td>"HiZ" (MUTE)</td> <td>"H" (MIX)</td> <td>"L" (TAPE)</td> <td>Dolby On : "L"(TAPE) Dolby Off : "H" (MIX)</td> </tr> <tr> <td>REC muting</td> <td>Manual dubbing</td> <td>Synchronize dubbing</td> <td>Tuner/Aux/CD Recording</td> </tr> </table>	"HiZ" (MUTE)	"H" (MIX)	"L" (TAPE)	Dolby On : "L"(TAPE) Dolby Off : "H" (MIX)	REC muting
"HiZ" (MUTE)	"H" (MIX)	"L" (TAPE)	Dolby On : "L"(TAPE) Dolby Off : "H" (MIX)					
REC muting	Manual dubbing	Synchronize dubbing	Tuner/Aux/CD Recording					
45	I-TUNE/IFC	I	SD detected input or serial data input of IF count to and from Tuner.					
46	I-SENS ST	I	Stereo detected input to and from Tuner. (Active low)					
47	I-RMC	I	System remote controller input. (Active low)					
48	IC	-	Internal connection. (connected to GND)					
49	O-SOL2	O	DECK 2 solenoid ON/OFF output.					
50	O-SOL1	O	DECK 1 solenoid ON/OFF output.					
51	O-MOTOR	O	DECK motor ON/OFF output.					
52	VDD	-	Power supply terminal. (+5V)					
53	O-DISH RVS	O	3 disc table slet rotation output.					
54	O-DISH FWD	O	3 disc table slet rotation output.					
55	P1/SCTI	O	FL segment output. (P1, DECK 1 cassette detection switch input)					
56	P2/CAM1	O	FL segment output. (P2, DECK 1 cam switch input)					
57	P3/AUTO1	O	FL segment output. (P3, DECK 1 auto stop input)					
58	P4/AUTO2	O	FL segment output. (P4, DECK 2 auto stop input)					
59	P5/CAM2	O	FL segment output. (P5, DECK 2 cam switch input)					
60	P6/REB	O	FL segment output. (P6, DECK 2 B side recording permission switch input)					
61	P7/CST2	O	FL segment output. (P7, DECK 2 cassette detection switch input)					
62	P8/REA	O	FL segment output. (P8, DECK 2 A side recording permission switch input)					
63	P9/TU1	O	FL segment output. (P9, Diode (TU1) input)					
64	P10/TU2	O	FL segment output. (P10, Diode (TU2) input)					
65	P11/NTSC/PAL	O	FL segment output. (P11, NTSC initial diode input)					
66	P12/KEYCON	O	FL segment output. (P12, Key con diode input)					
67	P13/DOLBY	O	FL segment output. (P13, Dolby diode input)					
68	P14/DSP	O	FL segment output. (P14, DSP diode input)					
69~77	P15~22	O	FL segment output. (P15~22)					
78	O-CLOSE	O	CD tray close output.					
79	O-OPEN	O	CD tray open output.					
80	G8	O	FL grid output. (G8)					

IC, LC72131D

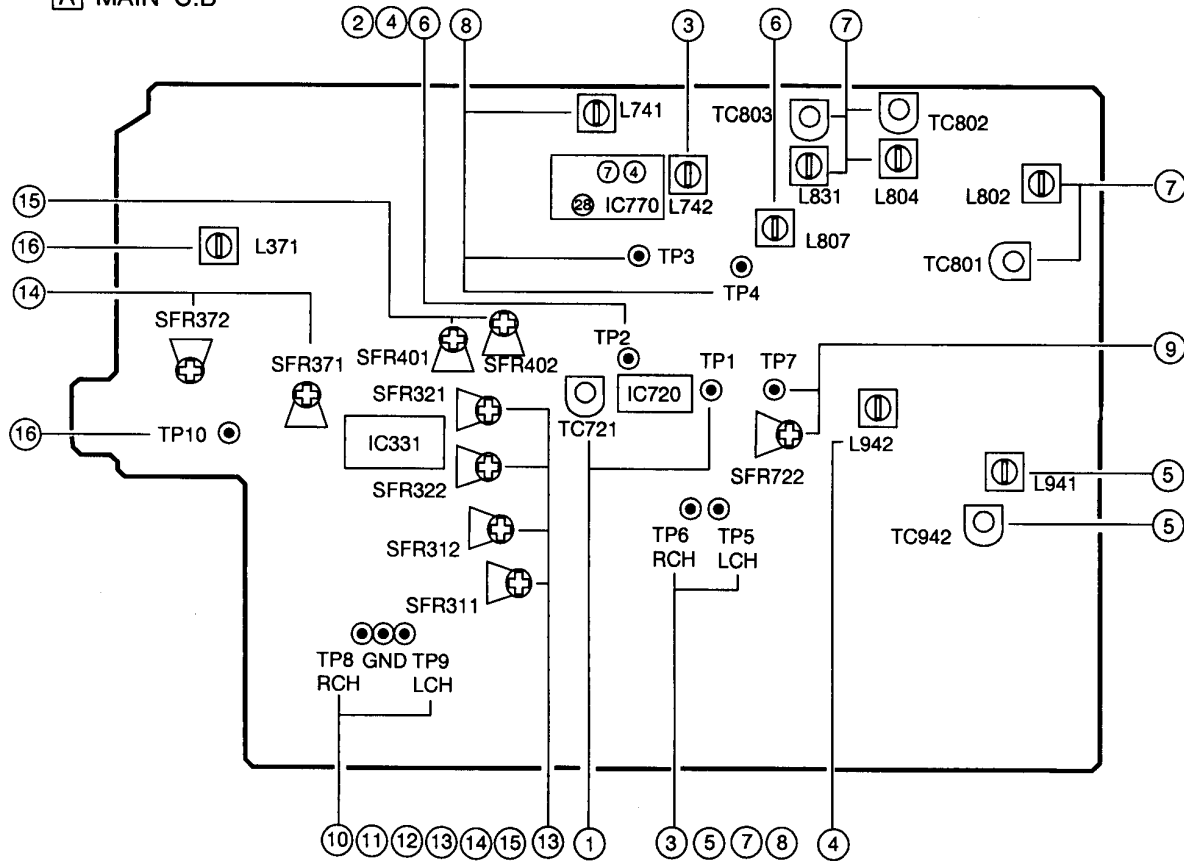
Pin No.	Pin Name	I/O	Description																								
1	XIN	-	A crystal oscillator (7.2MHz) is connected between these pins.																								
22	XOUT																										
2	NC	-	Not used.																								
3	CE	I	To enable the IC. Active "H".																								
4	DI	I	Digital data input from CPU (LC866432V-5A45) when relevant key is operated. Active "H".																								
5	CLK	I	To clock in the data DI.																								
6	DO	O	Digital data output to CPU (LC866432V-5A45).																								
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	$\overline{\text{FM}} / \text{AM}$	O	Output "L" or "H" as follows: <table border="1" style="margin-left: 20px;"> <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
2 BAND		3 BAND			3 BAND																						
AM	FM	LW	MW	FM	MW	SW	FM																				
H	L	H	H	L	H	L	L																				
10	$\overline{\text{MW}}$	O	Outputs "L" or "H" as follows: <table border="1" style="margin-left: 20px;"> <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>L</td> <td>L</td> <td>H</td> <td>L</td> <td>L</td> <td>L</td> <td>H</td> <td>L</td> </tr> </tbody> </table>	2 BAND		3 BAND			3 BAND			AM	FM	LW	MW	FM	MW	SW	FM	L	L	H	L	L	L	H	L
2 BAND		3 BAND			3 BAND																						
AM	FM	LW	MW	FM	MW	SW	FM																				
L	L	H	L	L	L	H	L																				
11	IF-MUTE	O	To control internal counter.																								
12	IFIN	I	General purpose counter input.																								
13	$\overline{\text{TUNE}}$	I	Receives "L" when station is tuned.																								
14	NC	-	Not used.																								
15	A MIN	I	Receives the AM local oscillator frequency signal.																								
16	F MIN	I	Receives the FM local oscillator frequency signal.																								
17	VDD	-	Supply power to IC (+5V).																								
18	PD	O	PLL charge pump output.																								
19	AIN	I	The MOS transistor for PLL active low pass filter.																								
20	AOUT	O																									
21	VSS	-	Ground.																								

IC, NJW1102AFG1

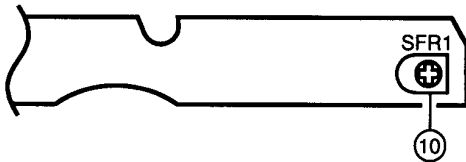
Pin No.	Pin Name	I/O	Description
1	LLI	I	Lch BPF in.
2	LBPF	O	Lch BPF feed back out.
3	RLI	I	Rch BPF in.
4	RBPF	O	Rch BPF feed back out.
5	LT	O	Lch selector #1 out.
6	RT	O	Rch selector #1 out.
7	LIN	I	Lch signal input.
8	RIN	I	Rch signal input.
9	HOLDC	I	Auto input balance control.
10	VCC	-	Power supply.
11~13	NGC 3~1	I	Noise sequencer control.
14,15	NC	-	Not connect.
16	VDD	-	Power supply.
17	NC	-	-
18	DATA	I	Serial data input.
19	SCK	I	Serial clock input.
20	REQ	I	Serial request (strobe) input.
21	IDS	I	IC select sw.
22	VSS	-	GND.
23	LOUT	O	Lch serial output.
24	ROUT	O	Rch serial output.
25	AUX1	O	AUX1 output (serial data change parallel output).
26	CT	O	Cch output (before trimmer).
27	C-OUT	O	Cch output (after trimmer).
28	ST	O	Sch output (before trimmer).
29	S-OUT	O	Sch output (after trimmer).
30	CMC	I	Center mode control.
31	SMRO	O	Sch amp (front L,R mix) output.
32	NC	-	-
33	SMRI	I	Sch amp (front L,R mix) input.
34	AUX2	O	AUX2 output (serial data change parallel output).
35	SD	O	Selector #2 out (to delay IC).
36	SIMBB	I	Selector #2 input B (L-R).
37	SIMBA	I	Selector #2 input A (L+R).
38	L+R	O	L+R ch output.
39	L-R	O	L-R ch output.
40	GND	-	Gnd.
41	VREF	I	VREF in.
42	VREFG	O	Vref out.
43	IREF	I	Iref in.
44	DBIBN	O	Output to modify dolby B IC (included NJW1102).
45	LPIN	I	From delay input.
46~48	DBC 1~3	I	Dolby B NR control.
49	NC	-	-
50~55	PSC 1~6	I	Dual time constant and threshold switches control.
56~63	RLC 1~8	I	Full wave rectifier and log difference amp control.
64	NC	-	-

ELECTRICAL ADJUSTMENT <TUNER / DECK>

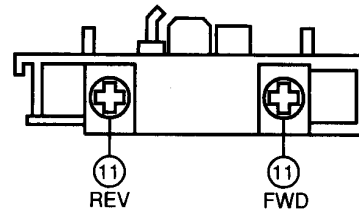
A MAIN C.B



H DECK C.B



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



< TUNER SECTION >

1. Clock Frequency Adjustment

Settings : • Test point : TP1

• Adjustment location : TC721

Method : Set to MW 1602kHz and adjust TC721 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 5.8V \pm 1.0V.

3. AM IF Adjustment

Settings : • Test point : TP-5, TP-6

• Adjustment location : L742

Method : Set to MW 999kHz and adjust L742 so that the test point becomes maximum.

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 1.5V \pm 0.05V.

5. LW Tracking Adjustment

Settings : • Test point : TP-5, TP-6

• 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 Adjustment

Settings : • Test point : TP2 (VT)

• Adjustment location : L807

Method : Set to FM 108MHz and adjust L807 so that test point is 8.0V \pm 0.05V. Then set to FM 87.5MHz and adjust L807 so that test point is more than 1.5V.

7. FM Tracking Adjustment
 Settings : • Test point : TP5, TP6
 • Adjustment location :
 L802,L804,L831
 87.5MHz
 TC801,TC802,TC803
 108.0MHz
 Method : • The level at 87.5MHz is adjusted by L802, L804,
 L831. Then the level at 108.0MHz is adjusted by
 TC801, TC802, TC803 so that the distortion is less
 than 3%.
8. DC Balance / Mono Distortion Adjustment
 Settings : • Test point : TP3, TP4 (DC balance)
 TP5, TP6 (Distortion)
 • Adjustment location : L741
 • Input level : 54dB
 Method : Set to FM 98.0MHz and adjust L741 so that the
 voltage between TP3 and TP4 becomes $0V \pm 0.04V$.
 Next, check that the distortion is less than 1.3%.
9. Auto Stop Level Adjustment
 Settings : • Test point : TP7
 • Adjustment location : SFR722
 • Input level : 20dB
 Method : Set to FM 98.0 MHz and adjust voltage low
 (about 0.1V) by SFR722. After that voltage
 high (about 7.0V) by 2dB down.

< DECK SECTION >

10. Tape Speed Adjustment
 Settings : • Test tape : TTA-100
 • Test point : TP8, TP9
 • Adjustment location : SFR1
 Method : Play back the test tape by DECK 2 and adjust
 SFR1 so that the frequency counter reads 3000Hz
 ± 5 Hz.
11. 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.

12. 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 is with respect to that of the 315Hz signal is
 ± 2 dB.
13. PB Sensitivity Adjustment
 Settings : • Test tape : TTA-200
 • Test point : TP8, TP9
 • Adjustment location :
 SFR311 (DECK 1, Lch)
 SFR312 (DECK 1, Rch)
 SFR321 (DECK 2, Lch)
 SFR322 (DECK 2, Rch)
 Method : Play back the test tape and adjust SFRs so that the
 output level of the test point become 300mV.
14. REC/PB Frequency Response Adjustment
 Settings : • Test tape : TTA-602
 • Test point : TP8, TP9
 • Input signal : 1kHz / 10kHz (LINE IN)
 • Adjustment location : SFR371 (Lch)
 SFR372 (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 and 10kHz signals and adjust SFRs so that
 the output of the 10kHz signals becomes $0dB \pm$
 $0.5dB$ with respect to that of the 1kHz signal.
15. PB/REC Sensitivity Adjustment
 Settings : • Test tape : TTA-602
 • Test point : TP8, TP9
 • Input signal : 1kHz (LINE IN)
 • Adjustment location : SFR401 (Lch)
 SFR402 (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 and adjust SFRs so that the output is $21mV \pm$
 $0.5dB$.
16. Bias OSC Frequency Adjustment
 Settings : • Test tape : TTA-601
 • Test point : TP10
 • Adjustment location : L371
 Method : Set to the REC mode. Adjust L371 so that the
 frequency counter of the test point becomes
 $85\text{ kHz} \pm 0.1\text{ kHz}$.

PRACTICAL SERVICE FIGURE

<TUNER SECTION>

<FM SECTION>

IHF Sensitivity : 8dB \pm 6dB
(THD 3%) [at 87.5MHz]
7dB \pm 6dB
[at 98 / 108.0MHz]

S/N 46dB Quieting sensitivity :
34dB \pm 5dB
[at 87.5 / 98.0 / 108.0MHz]

Signal to noise ratio : (MONO) More than 65dB
[at 98.0MHz]
(STEREO) More than 59dB
[at 98.0MHz]

Distortion : (MONO) Less than 1.3%
[at 98.0MHz]
(STEREO) Less than 2.0%
[at 98.0MHz]

Auto stop level : 20dB \pm 10dB [at 98.0MHz]
Stereo separation : More than 20dB [at 98.0MHz]
Intermediate frequency : 10.7MHz

<AM(MW) SECTION>

Sensitivity : 52 ~ 64dB
(S/N 20 dB) [at 603kHz]
50 ~ 62dB
[at 999 / 1404kHz]

Signal to noise ratio : More than 36dB
[at 999kHz]

Distortion : Less than 1.5%
[at 999kHz]

Auto stop level : 40dB ~ 65dB
[at 999kHz]

Intermediate frequency : 450kHz

<LW SECTION>

Sensitivity : 68dB \pm 5dB (144kHz)
(S/N 20dB) 65dB \pm 5dB (198kHz)
65dB \pm 5dB (290kHz)

Distortion : Less than 1.5% (198kHz)

Intermediate frequency : 450kHz

<DECK SECTION>

Tape speed : 3000Hz \pm 45Hz
Wow & flutter : Less than 0.15%
(W. R.M.S)

Take-up torque : 30 ~ 55g-cm
(FWD, REV)

F.F & REW torque : 75 ~ 180g-cm
Back tension : 2 ~ 7g-cm
(FWD, REV)

PB output level : 2.8V \pm 3dB
(SP OUT 2V)

REC/PB output level : 1.6V \pm 3dB
(SP OUT 2V)

Distortion (REC/PB) : Less than 2.0%
Noise level (PB) : Less than 300mV (NORM)
Less than 150mV (CrO₂)
(DOLBY OFF LINEAR, SP OUT 2V)

Noise level (REC/PB) : Less than 25mV/12mV (NORM)
Less than 18mV/10mV (CrO₂)
(DOLBY OFF LINEAR / WTD, SP OUT 2V)

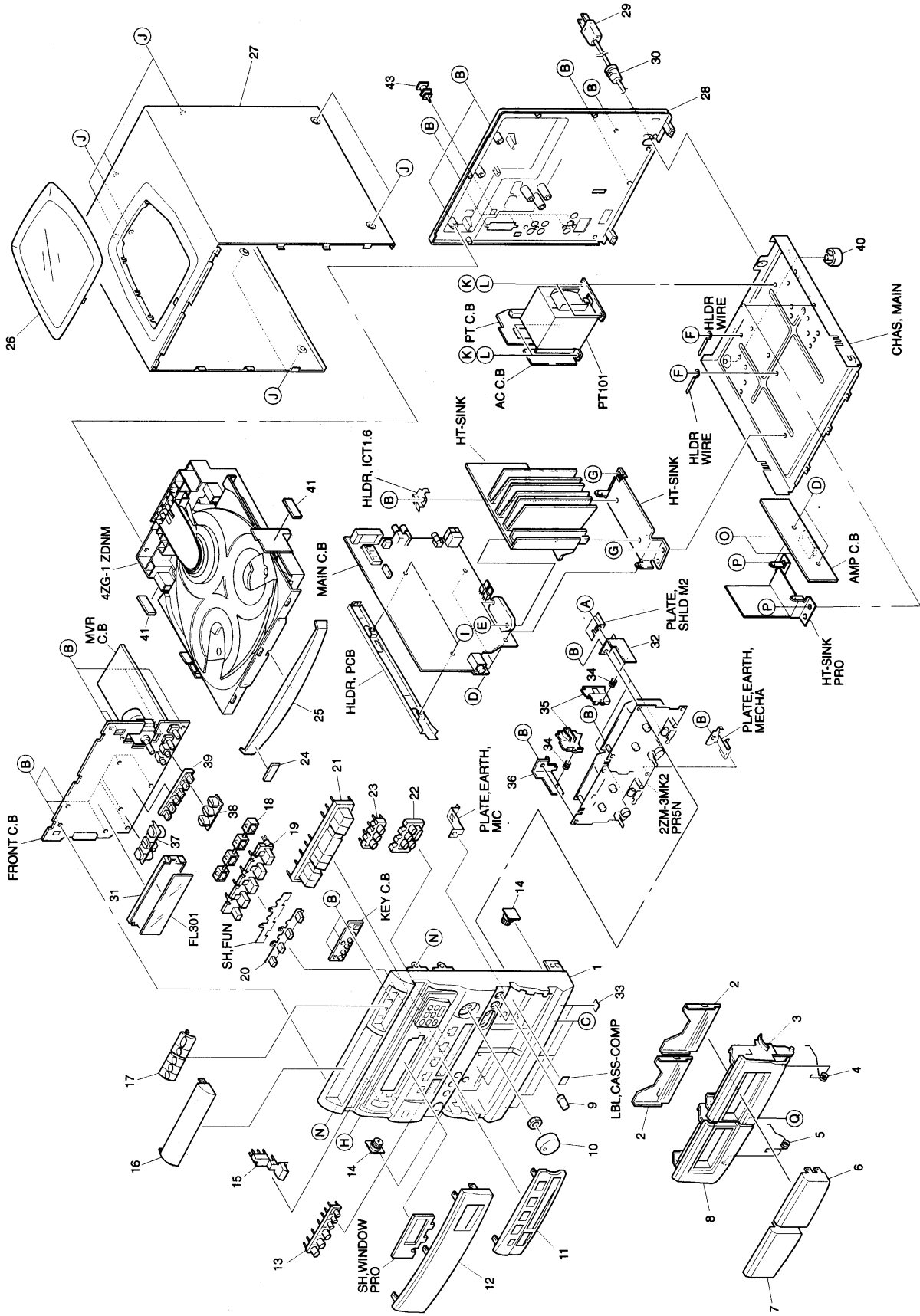
Crosstalk : More than 55dB
(1kHz, 0VU)

Channel separation : More than 40dB
(1kHz, 0VU)

Erasing ratio : More than 60dB
(at 125Hz)

Test tape : TTA-602 (NORMAL)
TTA-610 (CrO₂)

MECHANICAL EXPLODED VIEW 1/1

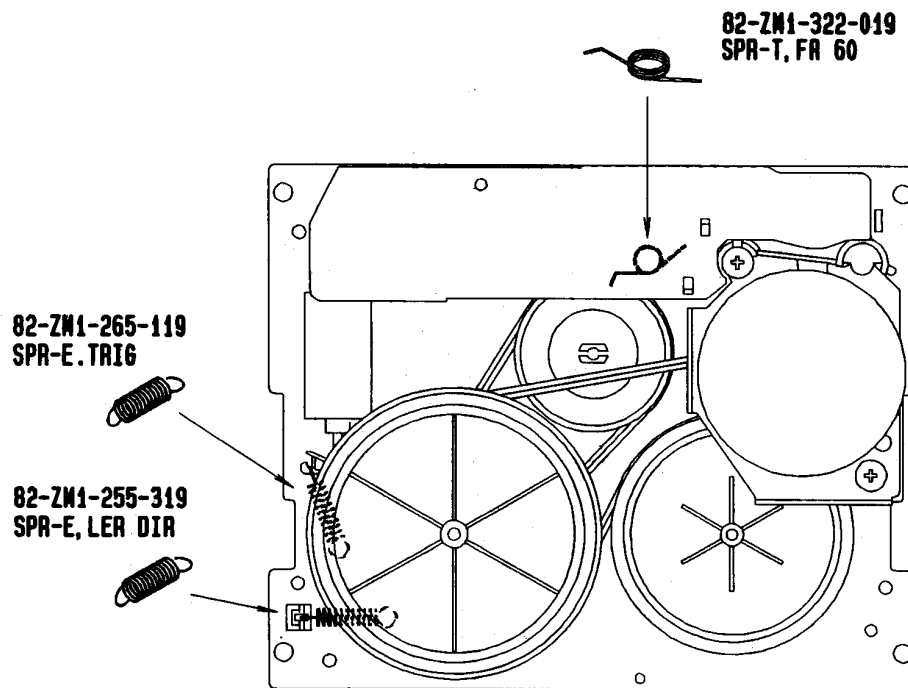
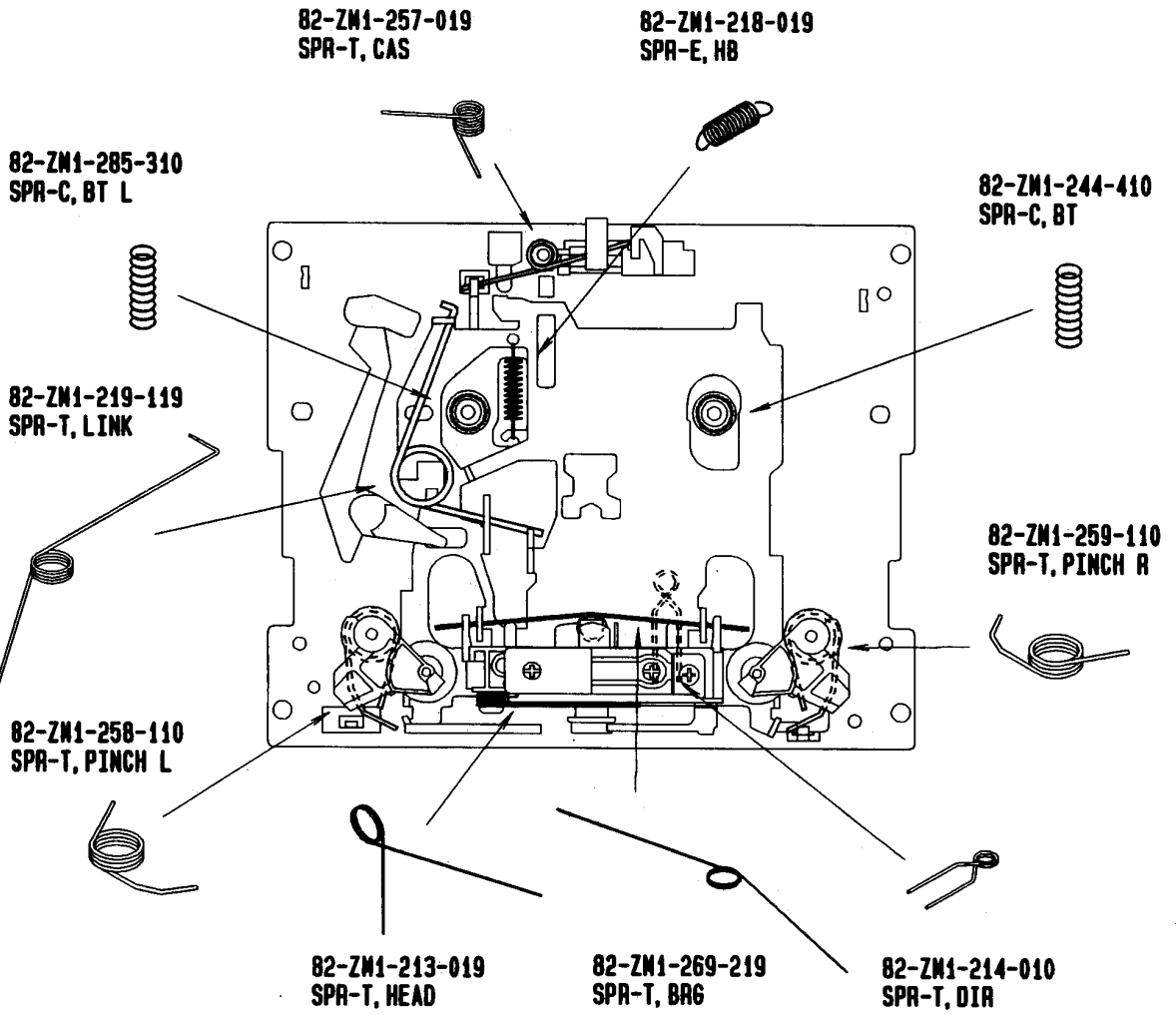


MECHANICAL PARTS LIST 1/1

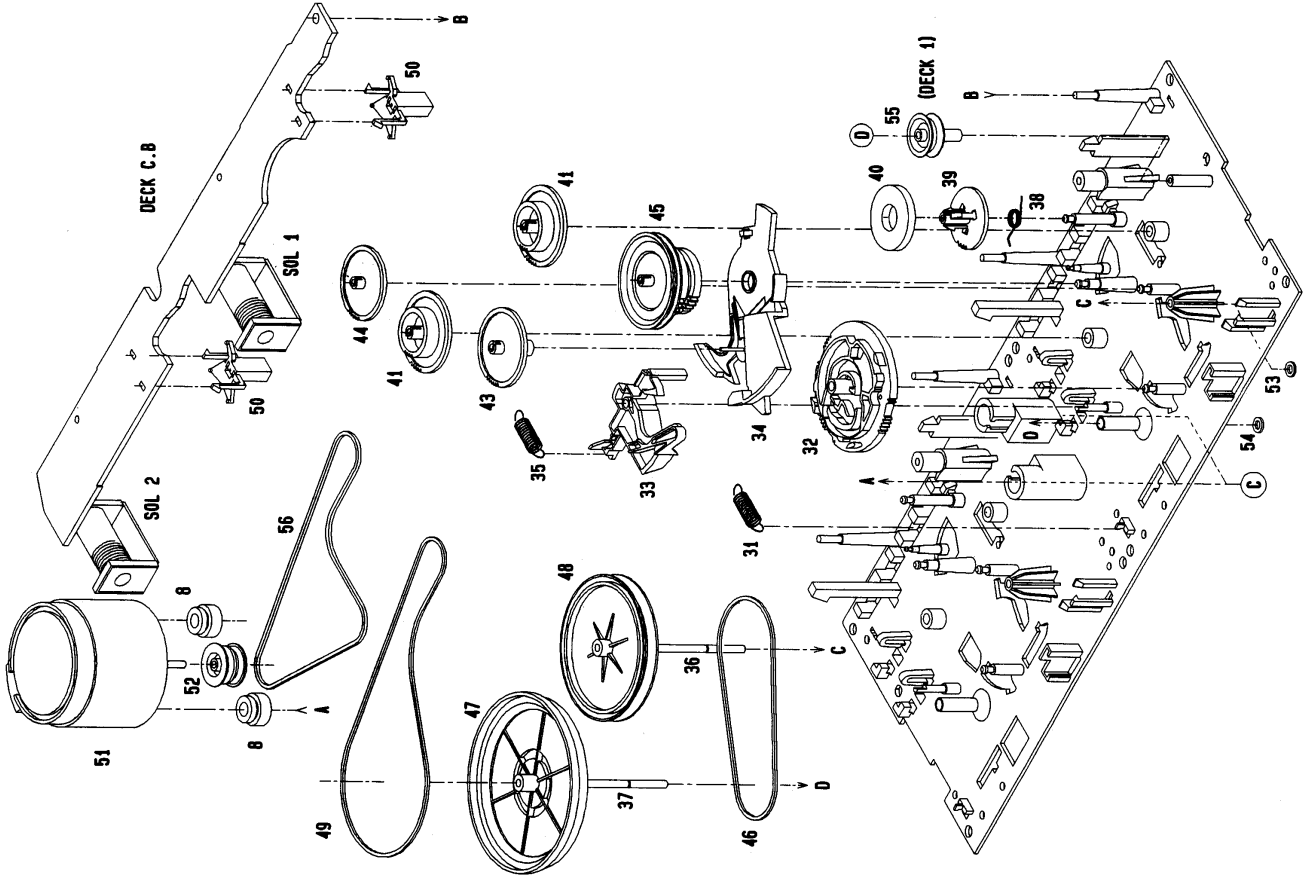
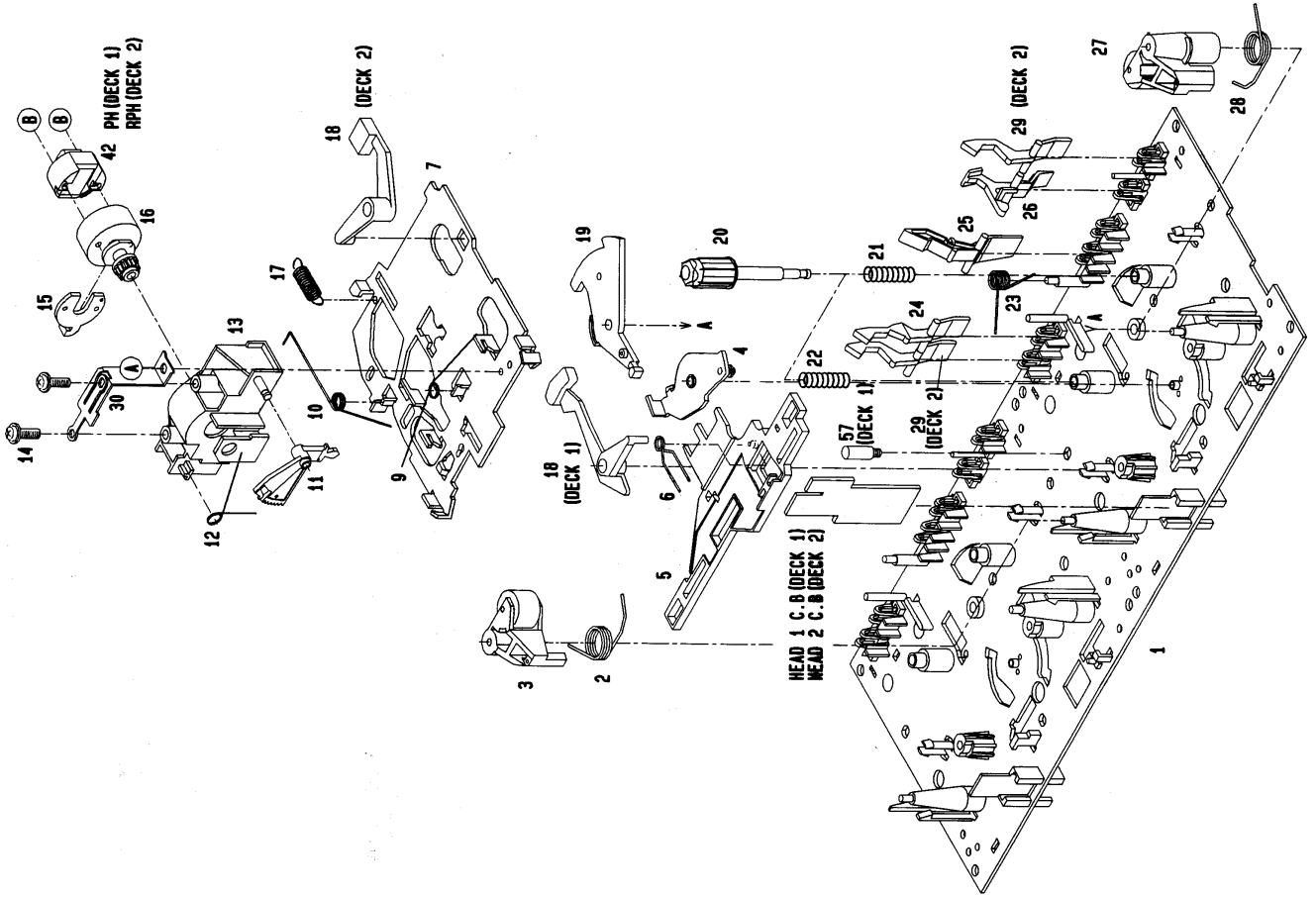
If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	86-NFT-002-019		CABI,FR E[B]<K>, [B]<G>	28	86-NFT-014-019		PANEL, REAR KBNM[B]<K>
1	86-NFT-004-019		CABI, STEEL TS[ST]<EZ>	△ 29	87-050-081-110		AC CORD ASSY G[B]<G>
2	86-NF6-061-019		REFLECTOR, CASS	△ 29	87-A80-007-110		AC CORD ASSY K[B]<K>
3	86-NF6-004-019		BOX, CASS 2[B]<G>	△ 29	87-050-079-019		AC CORD ASSY, E[ST]<EZ>
3	86-NF6-047-019		BOX, CASS 2E[B]<K>	30	87-085-185-010		BUSHING, CORD E
3	86-NFT-022-019		BOX, CASS 2TS[ST]<EZ>	31	82-NF7-210-019		GUIDE, FL
4	82-NF5-219-019		SPR-T, EJECT 2 (SIN)	32	82-NF5-227-019		HLDR, LOCK 2N
5	82-NF5-218-019		SRT-T, EJECT 1 (SIN)	33	80-VT1-202-019		FELT, 12.5-15.5-2
6	86-NF6-020-019		WINDOW, CASS 2	34	82-NF5-228-019		SPR-C, LOCK
7	86-NF6-019-019		WINDOW, CASS 1	35	82-NF5-229-019		PLATE, LOCK
8	86-NF6-003-019		BOX, CASS 1[B]<G>	36	82-NF5-226-019		HLDR LOCK 1N
8	86-NF6-046-019		BOX, CASS 1E[B]<K>	37	86-NF6-210-019		GUIDE, LED L
8	86-NFT-021-019		BOX, CASS 1TS[ST]<EZ>	38	86-NF6-209-019		GUIDE, LED R
9	86-NF6-050-019		KNOB, RTRY MIC M	39	86-NF6-205-019		GUIDE, OPE
10	86-NF6-063-019		KNOB, RTRY VOL[B]<K>, [B]<G>	40	87-085-221-019		FOOT, H 13.5
10	86-NFT-032-019		KNOB, RTRY VOL TS[ST]<EZ>	41	87-063-173-019		CLOTH, 30-10-0.35
11	86-NF6-006-019		PANEL, CONTROL	43	84-ZG1-245-110		CAP OPTICAL
12	86-NFT-006-119		WINDOW, DISP	A	87-571-032-419		VIT+2-3
13	86-NF6-013-019		KEY, DOLBY[B]<K>, [B]<G>	B	87-067-703-019		BVT2+3-10 (W/O SLOT)
13	86-NFT-035-019		KEY, DOLBY TS[ST]<EZ>	C	87-067-673-019		BVTT +3-8 BLK
14	87-063-165-019		OIL-DMPR 150	D	87-067-633-019		BVT2+3-8 W/CONVEX
15	86-NF6-009-019		KEY, POWER[B]<K>, [B]<G>	E	87-067-698-019		BVT 2+3-18 (W/O SLOT)
15	86-NFT-033-019		KEY, POWER TS[ST]<EZ>	F	87-067-584-019		BVT2+3-6
16	86-NF6-018-019		WINDOW, CD	G	87-067-689-019		BVTT+3-8
17	86-NF6-015-019		KEY, CD[B]<K>, [B]<G>	H	87-591-094-419		QIT + 3 - 6 GOLD
17	86-NFT-031-019		KEY, CD TS[ST]<EZ>	I	87-078-084-019		BVTT+3-6 W, CONVEX
18	86-NF6-208-019		GUIDE, FUN	J	87-067-641-019		UTT2+3-8 W/O SLOT BLK
19	86-NF6-011-019		KEY, FUN	K	87-078-083-019		BUTT SEMS+4-8SW
20	86-NF6-016-019		REFLECTOR, FUN	L	87-410-225-019		W4-10-0.8
21	86-NF6-012-019		KEY, OPE	N	87-721-097-419		QT2+3-12 GLD
22	86-NFT-008-019		KEY, PL	O	87-067-581-019		BVT2+3-15 W/O SLOT
23	86-NF6-014-019		KEY, DSP	P	87-067-688-019		BVTT +3-6
24	82-NE6-067-019		BADGE AIWA 30N	Q	82-NE8-215-019		W4.2-7-0.188
25	86-NFT-023-019		PANEL, TRAY TS[ST]<EZ>				
25	86-NF6-051-019		PANEL, TRAY U[B]<K>, [B]<G>				
26	86-NF6-007-019		WINDOW, TOP				
27	86-NF6-048-019		CABI, STEEL H-S[B]<K>, [B]<G>				
27	86-NFT-005-019		CABI, STEEL TS[ST]<EZ>				
28	86-NFT-015-019		PANEL, REAR EZ[ST]<EZ>				
28	86-NFT-020-019		PANEL, REAR GBNM[B]<G>				

SPRING APPLICATION POSITION



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	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-ZM3-616-019		RING MAGNET 4
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	87-046-355-019		HEAD,PH HADKH2529B(PH)
9	82-ZM1-269-219		SPR-T,BRG	42	87-046-356-019		HEAD,RPH HADKH5581B(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				

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-NFT-903-019		IB,E(EGFSI)-M<EZ>
1	86-NFT-904-019		IB,K(E)-M<K>
1	86-NFT-905-019		IB,G(E)-M<G>
2	86-MAP-701-119		RC UNIT,6AS02
3	87-006-225-019		AM LOOP ANT NC2
4	87-043-106-019		FM,WIRE ANT (Z)

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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