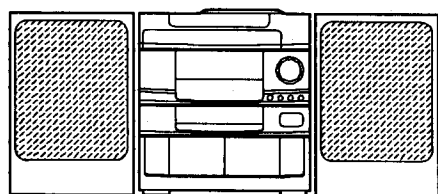


aiwa



Z-M2900



COMPACT DISC STEREO
CASSETTE RECEIVER

- BASIC TAPE MECHANISM : 2ZM-3MK2 PR6
- BASIC CD MECHANISM : 6ZG-1 DF

• TYPE : HE-11R01

SYSTEM	CD - CASSEIVER	SPEAKER
Z-M2900	CX-ZM2900	SX-Z290

- If requiring information about the Speaker, see Service Manual of SX-ANV900/SX-NAV900, S/M Code No. 09-964-137-8FP.

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SPECIFICATIONS

<FM Tuner section>

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

<AM 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

<Amplifier section>

Power output * HE, HR : 150 W + 150 W
 (6 ohms, T.H.D. 10%, 1 kHz)
 LH : 180 W + 180 W
 (6 ohms, T.H.D. 10%, 1 kHz)
 * (without connecting to the SURROUND SPEAKERS)
Total harmonic distortion 0.1% (75 W, 1 kHz, 6 ohms, DIN AUDIO)
Inputs VIDEO/AUX : 150 mV (adjustable)
PHONO : 250 mV (47 kohms)
 MIC 1, MIC 2 : 1 mV (10 kohms)
Outputs LINE OUT : 200 mV
 SUPER WOOFER : 3.3 V
 SPEAKERS: accept speakers of 6 ohms or more
 SURROUND SPEAKERS : accept speakers of 16 ohms or more
 PHONES (stereo jack) : accepts headphones of 32 ohms or more

<Cassette deck section>

Track format 4 tracks, 2 channels stereo
Frequency response CrO₂ tape : 50 Hz – 16000 Hz
 Normal tape : 50 Hz – 15000 Hz
Signal-to-noise ratio 60 dB (Dolby B NR ON, CrO₂ tape peak level, above 400 Hz)
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 85 dB (1 kHz, 0 dB)
Harmonic distortion 0.03% (1 kHz, 0 dB)
Wow and flutter Unmeasurable

<Speaker system SX-Z290>

Cabinet type 3 way, bass reflex
Speakers Woofer : 220 mm cone type
 Tweeter : 80mm cone type
 Super tweeter : 20 mm (¹³/₁₆ in.) ceramic type
Impedance 6 ohms
Output sound pressure level 90 dB/W/m
Dimensions (W x H x D) 260 x 444 x 270 mm
Weight 4.8 kg (9 lbs 15 oz.)

<General>

Power requirements 120 V/ 220 – 230 V/240 V AC, switchable 50/60 Hz
Power consumption 180 W
Dimensions of main unit (W x H x D) 360 x 394.5 x 375.5 mm
Weight of main unit 11 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-MA2-901-019	IB, H(ECA) -M<HE, HR>	
1	86-MA2-902-019	IB, LH(ES) -M<LH>	
2	86-MA3-701-019	RC UNIT, 6AS01	
3	87-006-225-019	AM LOOP ANT NC2	
4	87-043-115-01B	ANT, FEEDER FM	
Δ 5	87-099-789-019	PLUG, ADPTR IR44	
6	86-MA2-950-019	MIC, DM-M100A YJ<LH>	

PROTECTION OF EYES FROM LASER BEAM DURING SERVICING

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

WARNING!!

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



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

VAROITUS!

Laiteen Käyttäminen muulla kuin tässä käyttöohjeessa mainitulla tavalla saattaa altistaa käyttäjän turvallisuusluokan 1 ylittävälle näkymättömälle lasersäteilylle.

WARNING!

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

CAUTION

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

ATTENTION

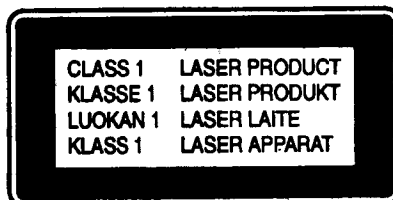
L'utilisation de commandes, réglages ou procédures autres que ceux spécifiés peut entraîner une dangereuse exposition aux radiations.

ADVARSEL!

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

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

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

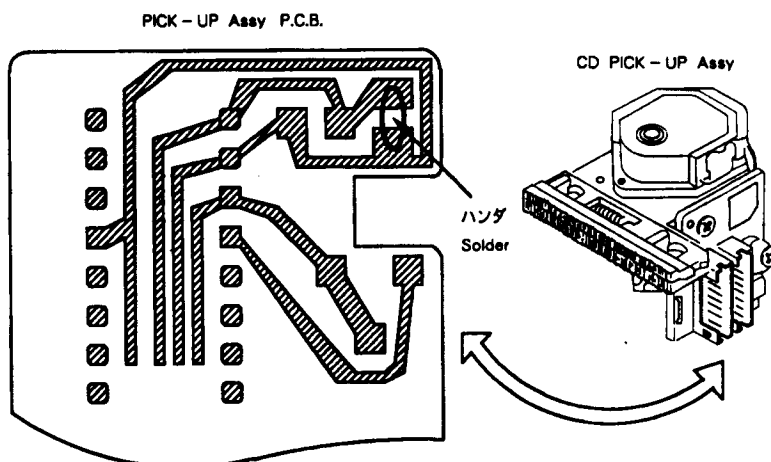


Precaution to replace Optical block

(KSS - 213B)

Body or clothes electrostatic potential could ruin laser diode in the optical block. Be sure ground body and workbench, and use 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							
	87-A20-264-019		IC,STK-419-150		87-017-437-089		DIODE,1N4148M
	87-070-121-010		IC,HA12185NT		87-017-174-089		ZENER,HZS11A3L
	87-001-874-019		IC,HA12134A		87-017-147-089		ZENER,HZS33-2
	87-A20-107-019		IC,BA3836		87-A40-183-099		DIODE,RK36(F)
	87-027-666-019		IC,TC4052BP		87-017-148-089		ZENER,HZS6A1L
	87-A20-056-019		IC,BA3880S		87-001-914-089		ZENER UTZJ 6.2B
	87-017-374-019		IC,TC4094BP		87-020-691-089		DIODE,1SS132 T-72
	87-070-127-119		IC,LC72131		87-070-136-089		ZENER,MTZJ5.1B
	87-020-454-010		IC,DN6851		87-020-331-089		C-DIODE,DAN202K
	86-MA2-611-010		IC,LC866440W-5790		87-020-339-089		C-DIODE,1SS226
	87-070-083-019		IC,GP1U281X		87-001-290-089		ZENER,HZS6B1L
	87-017-914-019		IC,BU4094 BC		87-001-636-089		ZENER,HZS3C1
	87-070-232-019		IC,BA3834S		87-020-465-089		DIODE,1SS133 T-72
	87-017-022-089		IC,NJM2068M-D	MAIN C.B			
	87-002-272-089		IC,TC4052BF				
	87-017-888-089		IC,NJM4558MD	C101	87-A10-231-090		CAP,E 3300-80 <HE,LH>
	87-001-530-019		IC,LA3607	C101	87-A10-059-090		CAP,E 3300-75 SME<HR>
	87-070-249-049		IC,NJU7305M	C102	87-A10-231-090		CAP,E 3300-80 <HE,LH>
	87-A20-067-040		C-IC,M65849FP	C102	87-A10-059-090		CAP,E 3300-75 SME<HR>
	87-017-714-119		IC,LA1836	C104	87-010-235-089		CAP,E 470-16 SME
	87-001-982-019		IC,TA7291S	C105	87-010-235-089		CAP,E 470-16 SME
	87-070-305-019		IC,BA6897S	C106	87-010-347-089		CAP,E 100-50 SME
	87-017-745-019		IC,CXA1782BQ	C107	87-010-247-089		CAP,E 100-50 SME
	87-070-294-019		IC,CXD2508AQ	C108	87-010-247-089		CAP,E 100-50 SME
				C109	87-010-263-089		CAP,E 100-10 SME 5X11
TRANSISTOR				C112	87-010-382-089		CAP,E 22-25 SME
	89-213-702-019		TR,2SB1370E	C113	87-010-403-089		CAP,E 3.3-50 SME
	89-113-187-089		TR,2SA1318TU	C116	87-012-140-089		C-CAP,S 470P-50 CH
	87-026-610-089		TR,KTC3198GR	C121	87-010-196-089		C-CAP,S 0.1-25 F
	89-332-665-089		TR,2SC3266GR	C122	87-010-196-089		C-CAP,S 0.1-25 F
	89-337-221-389		C-TR,2SC3722K	C122	87-010-196-089		C-CAP,S 0.1-25 F
	89-327-125-088		C-TR,2SC2712GR	C123	87-018-209-089		CAP,TC-U 0.1-50 F
	89-111-625-089		C-TR,2SA1162GR	C124	87-010-196-089		C-CAP,S 0.1-25 F
	87-026-210-089		C-TR,DTC144EK T147	C145	87-010-186-089		C-CAP,S 4700P-50 BK
	89-333-266-089		C-TR,2SC3326B	C146	87-010-186-089		C-CAP,S 4700P-50 BK
	87-026-609-089		TR,KTA1266GR	C152	87-010-260-089		CAP,E 47-25 SME
	89-109-705-089		TR,2SA970GR	C171	87-016-440-099		CAP,E 4700-35(JAM1)
	89-502-466-089		TR,FET 2SK246-BL (TPE2)	C172	87-016-440-099		CAP,E 4700-35(JAM1)
	89-333-317-089		TR,2SC3331T	C173	87-010-196-089		C-CAP,S 0.1-25 F
	87-026-214-089		TR,DTA114YS	C174	87-010-196-089		C-CAP,S 0.1-25 F
	87-026-463-089		TR,2SA933 (RS)	C175	87-010-196-089		C-CAP,S 0.1-25 F
	89-324-121-089		C-TR,2SC2412K	C176	87-015-785-089		C-CAP,0.1-25 F
	87-026-226-089		C-TR,DTA143EK	C220	87-010-194-089		C-CAP,S 0.047-25 F
	87-026-211-089		C-TR,DTA144EK T147	C221	87-010-401-089		CAP,E 1-50 SME
	89-109-521-089		TR,2SA952K	C222	87-010-401-089		CAP,E 1-50 SME
	87-026-235-089		C-TR,DTC114 EK	C223	87-010-187-089		C-CAP,S 5600P-50 B
	89-112-965-089		TR,2SA1296GR	C224	87-010-187-089		C-CAP,S 5600P-50 B
	89-406-555-089		TR,2SD655E	C225	87-010-179-089		C-CAP,S 1200P-50 B
	87-026-238-089		C-TR,DTC144WK	C226	87-010-179-089		C-CAP,S 1200P-50 B
	89-327-143-089		C-TR,2SC2714 (O)	C227	87-010-405-089		CAP,E 10-50 SME
	89-505-434-549		C-FET,2SK543(4/5)	C228	87-010-405-089		CAP,E 10-50 SME
	87-026-239-089		C-TR,DTC114 TK	C230	87-010-405-089		CAP,E 10-50 SME
	89-110-155-089		TR,2SA1015GR	C231	87-010-147-089		C-CAP,S 3P-50 CH
	89-320-011-089		TR,2SC2001K	C232	87-018-098-089		CAP,TC-U 3.3P-50 SL
	89-421-722-389		TR,2SD2172V/W	C233	87-010-196-089		C-CAP,S 0.1-25 F
	87-A30-047-089		TR,CSD655E	C234	87-010-196-089		C-CAP,S 0.1-25 F
	87-026-226-089		C-TR,DTA143TK	C236	87-010-196-089		C-CAP,S 0.1-25 F
	87-026-233-089		C-TR,DTA114TK	C243	87-010-322-089		C-CAP,S 1000P-50 CH
	87-026-608-089		C-TR,DTC123JK	C244	87-010-322-089		C-CAP,S 1000P-50 CH
DIODE				C250	87-A10-200-080		CAP,E 10-100 BP
	87-A40-115-069		DIODE,RS603M	C260	87-015-785-089		C-CAP,0.1-25 F
	87-A40-116-069		DIODE,RS403L-B-D-51	C301	87-010-318-089		C-CAP,S 47P-50 CH
	87-070-274-089		DIODE,1N4003 SEM	C302	87-010-318-089		C-CAP,S 47P-50 CH
	87-020-027-089		C-DIODE,1SS184	C303	87-012-157-089		C-CAP,S 330P-50 CH
	87-020-125-089		C-DIODE,1SS181	C304	87-012-157-089		C-CAP,S 330P-50 CH
				C305	87-012-145-089		C-CAP,S 270P-50CH
				C306	87-012-145-089		C-CAP,S 270P-50CH
				C307	87-010-196-089		C-CAP,S 0.1-25 F
				C311	87-010-198-089		C-CAP,S 0.022-25 B

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
C312	87-010-198-089		C-CAP,S 0.022-25 B	C555	87-012-358-089		C-CAP,S 0.47-10 ZF
C313	87-010-184-089		C-CAP,S 3300P-50 B	C556	87-012-358-089		C-CAP,S 0.47-10 ZF
C314	87-010-184-089		C-CAP,S 3300P-50 B	C597	87-010-404-089		CAP,E 4.7-50 SME
C315	87-010-181-089		C-CAP,S 1800P-50 B	C598	87-010-404-089		CAP,E 4.7-50 SME
C316	87-010-181-089		C-CAP,S 1800P-50 B	C601	87-010-177-089		C-CAP,S 820P-50 SL
C317	87-012-142-089		C-CAP,S 0.33-16 F	C602	87-010-177-089		C-CAP,S 820P-50 SL
C318	87-012-142-089		C-CAP,S 0.33-16 F	C603	87-010-405-089		CAP,E 10-50 SME
C319	87-012-141-089		C-CAP,S 0.22-16 F	C604	87-010-405-089		CAP,E 10-50 SME
C320	87-012-141-089		C-CAP,S 0.22-16 F	C605	87-010-260-089		CAP,E 47-25 SME
C321	87-010-196-089		C-CAP,S 0.1-25 F	C606	87-010-101-089		CAP,E 220-16 SME
C322	87-010-196-089		C-CAP,S 0.1-25 F	C607	87-010-188-089		C-CAP,S 6800P-50 B
C324	87-010-260-089		CAP,E 47-25 SME	C608	87-010-188-089		C-CAP,S 6800P-50 B
C325	87-010-370-089		CAP,E 330-6.3 SME	C609	87-018-127-089		CAP,TC-U 470P-50 B
C326	87-010-196-089		C-CAP,S 0.1-25 F	C610	87-018-127-089		CAP,TC-U 470P-50 B
C330	87-010-401-089		CAP,E 1-50 SME	C611	87-010-197-089		C-CAP,S 0.01-25 B
C332	87-015-785-089		C-CAP,0.1-25 F	C612	87-010-197-089		C-CAP,S 0.01-25 B
C335	87-010-805-089		C-CAP,S 1-16F	C613	87-010-195-089		C-CAP,S 0.068-25 F
C336	87-010-805-089		C-CAP,S 1-16F	C614	87-010-195-089		C-CAP,S 0.068-25 F
C337	87-010-196-089		C-CAP,S 0.1-25 F	C615	87-010-404-089		CAP,E 4.7-50 SME
C338	87-010-196-089		C-CAP,S 0.1-25 F	C616	87-010-404-089		CAP,E 4.7-50 SME
C339	87-010-196-089		C-CAP,S 0.1-25 F	C617	87-010-404-089		CAP,E 4.7-50 SME
C340	87-015-785-089		C-CAP,0.1-25 F	C618	87-010-404-089		CAP,E 4.7-50 SME
C351	87-012-154-089		C-CAP,S 150P-50 CH	C641	87-010-196-089		C-CAP,S 0.1-25 F
C352	87-012-154-089		C-CAP,S 150P-50 CH	C642	87-010-196-089		C-CAP,S 0.1-25 F
C451	87-012-140-089		C-CAP,S 470P-50 CH	C700	87-018-196-089		CAP,TC-U 1500P-16 Y
C452	87-012-140-089		C-CAP,S 470P-50 CH	C701	87-010-381-089		CAP,E 330-16 SME
C453	87-010-178-089		C-CAP,S 1000P-50 B	C702	87-010-404-089		CAP,E 4.7-50 SME
C456	87-010-260-089		CAP,E 47-25 SME	C703	87-010-197-089		C-CAP,S 0.01-25 B
C457	87-010-197-089		C-CAP,S 0.01-25 B	C704	87-010-197-089		C-CAP,S 0.01-25 B
C458	87-010-183-089		C-CAP,S 2700P-50 B	C711	87-010-263-089		CAP,E 100-10 SME 5X11
C459	87-010-183-089		C-CAP,S 2700P-50 B	C712	87-010-196-089		C-CAP,S 0.1-25 F
C460	87-010-183-089		C-CAP,S 2700P-50 B	C721	87-010-196-089		C-CAP,S 0.1-25 F
C470	87-010-196-089		C-CAP,S 0.1-25 F	C722	87-010-152-089		C-CAP,S 8P-50 CH
C501	87-010-179-089		C-CAP,S 1200P-50 B	C723	87-010-196-089		C-CAP,S 0.1-25 F
C502	87-010-179-089		C-CAP,S 1200P-50 B	C725	87-010-196-089		C-CAP,S 0.1-25 F
C503	87-012-155-089		C-CAP,S 180P-50 CH	C727	87-010-196-089		C-CAP,S 0.1-25 F
C504	87-012-155-089		C-CAP,S 180P-50 CH	C728	87-010-248-089		CAP,E 220-10 SME
C515	87-010-545-089		CAP,E 0.22-50 SME	C735	87-018-134-089		CAP,TC-U 0.01-16 Y
C516	87-010-545-089		CAP,E 0.22-50 SME	C770	87-010-405-089		CAP,E 10-50 SME
C519	87-015-785-089		C-CAP,0.1-25 F	C771	87-010-405-089		CAP,E 10-50 SME
C521	87-010-197-089		C-CAP,S 0.01-25 B	C772	87-010-194-089		C-CAP,S 0.047-25 F
C522	87-010-318-089		C-CAP,S 47P-50 CH	C773	87-015-785-089		C-CAP,0.1-25 F
C523	87-010-197-089		C-CAP,S 0.01-25 B	C775	87-010-405-089		CAP,E 10-50 SME
C524	87-010-402-089		CAP,E 2.2-50 SME	C776	87-010-197-089		C-CAP,S 0.01-25 B
C525	87-010-184-089		C-CAP,S 3300P-50 B	C777	87-010-400-089		CAP,E 0.47-50 SME
C526	87-010-196-089		C-CAP,S 0.1-25 F	C778	87-010-401-089		CAP,E 1-50 SME
C527	87-010-401-089		CAP,E 1-50 SME	C779	87-010-401-089		CAP,E 1-50 SME
C528	87-010-401-089		CAP,E 1-50 SME	C780	87-010-197-089		C-CAP,S 0.01-25 B
C529	87-010-384-089		CAP,E 100-25 SME	C781	87-010-405-089		CAP,E 10-50 SME
C530	87-010-197-089		C-CAP,S 0.01-25 B	C782	87-010-405-089		CAP,E 10-50 SME
C531	87-010-183-089		C-CAP,S 2700P-50 B	C785	87-010-197-089		C-CAP,S 0.01-25 B
C532	87-010-194-089		C-CAP,S 0.047-25 F	C787	87-010-184-089		C-CAP,S 3300P-50 B
C533	87-010-196-089		C-CAP,S 0.1-25 F	C788	87-010-184-089		C-CAP,S 3300P-50 B
C534	87-010-263-089		CAP,E 100-10 SME 5X11	C789	87-015-826-089		C-CAP,1200-50 B K
C535	87-010-401-089		CAP,E 1-50 SME	C790	87-010-179-089		C-CAP,S 1200P-50 B
C536	87-010-401-089		CAP,E 1-50 SME	C791	87-010-401-089		CAP,E 1-50 SME
C537	87-010-545-089		CAP,E 0.22-50 SME	C792	87-018-196-089		CAP,TC-U 1500P-50 B
C540	87-010-196-089		C-CAP,S 0.1-25 F	C793	87-010-189-089		C-CAP,S 8200P-50 B
C541	87-010-196-089		C-CAP,S 0.1-25 F	C794	87-010-408-089		CAP,E 47-50 SME
C542	87-010-405-089		CAP,E 10-50 SME	C795	87-010-194-089		C-CAP,S 0.047-25 F
C543	87-010-546-089		CAP,E 0.33-50 SME	C796	87-010-403-089		CAP,E 3.3-50 SME
C544	87-010-546-089		CAP,E 0.33-50 SME	C802	87-010-197-089		C-CAP,S 0.01-25 B
C547	87-015-632-089		C-CAP,S 0.015-50 BK<HE,HR>	C803	87-018-134-089		CAP,TC-U 0.01-16 Y
C547	87-010-198-089		C-CAP,S 0.022-25 B<LH>	C814	87-010-196-089		C-CAP,S 0.1-25 F
C548	87-015-632-089		C-CAP,S 0.015-50 BK<HE,HR>	C815	87-018-134-089		CAP,TC-U 0.01-16 Y
C548	87-010-198-089		C-CAP,S 0.022-25 B<LH>	C819	87-010-197-089		C-CAP,S 0.01-25 B
C551	87-010-178-089		C-CAP,S 1000P-50 B	C820	87-010-408-089		CAP,E 47-50 SME
C552	87-010-178-089		C-CAP,S 1000P-50 B	C821	87-010-197-089		C-CAP,S 0.01-25 B
C553	87-015-627-089		C-CAP,1000P-50 B	C823	87-010-197-089		C-CAP,S 0.01-25 B
C554	87-010-178-089		C-CAP,S 1000P-50 B	C828	87-010-197-089		C-CAP,S 0.01-25 B

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
C829	87-010-197-089		C-CAP,S 0.01-25 B	C106	87-010-391-049		CAP,E 10-35 SME
C830	87-015-819-089		CHIP CAP 0.01	C107	87-010-263-049		CAP,E 100-10
C835	87-010-197-089		C-CAP,S 0.01-25 B	C108	87-010-401-049		CAP,E 1-50 SME
C901	87-010-197-089		C-CAP,S 0.01-25 B	C109	87-015-695-049		CAP,E 1-50 7L
C902	87-010-196-089		C-CAP,S 0.1-25 F	C110	87-010-248-049		CAP,E 220-10
C903	87-018-119-089		CAP,TC U 100P-50 KB	C111	87-010-805-089		C-CAP,S 1-16F
C946	87-010-401-089		CAP,E 1-50 SME	C112	87-010-196-089		C-CAP,S 0.1-25 F
C960	87-010-196-089		C-CAP,S 0.1-25 F	C113	87-018-209-089		CAP,TC-U 0.1-50 F
C961	87-010-151-089		C-CAP,S 7P-50 CH	C201	87-015-690-049		CAP,E 22-35 7L
C987	87-018-134-089		CAP,TC-U 0.01-16 Y	C202	87-010-258-049		CAP,E 22-35 SME
C990	87-010-197-089		C-CAP,S 0.01-25 B	C203	87-015-699-049		CAP,E 10-50 7L
C993	87-018-134-089		CAP,TC-U 0.01-16 Y	C205	87-010-196-089		C-CAP,S 0.1-25 F
C995	87-010-197-089		C-CAP,S 0.01-25 B	C206	87-010-196-089		C-CAP,S 0.1-25 F
C999	87-010-196-089		C-CAP,S 0.1-25 F	C212	87-010-196-089		C-CAP,S 0.1-25 F
CF801	87-008-261-019		FLTR,SFE10.7MA5-A	C213	87-010-196-089		C-CAP,S 0.1-25 F
CF802	87-008-261-019		FLTR,SFE10.7MA5-A	C214	87-010-196-089		C-CAP,S 0.1-25 F
CON351	83-NEG-608-019		CONN ASSY 8P-RPB	C215	87-010-196-089		C-CAP,S 0.1-25 F
FFE801	86-NF4-670-019		FE PACK 2 EX-N	C301	87-010-196-089		C-CAP,S 0.1-25 F
J252	87-A60-024-019		JACK 6.3BLK W/SW KM	C302	87-010-196-089		C-CAP,S 0.1-25 F
J253	87-099-802-019		JACK,PIN 3P BRW	C303	87-010-196-089		C-CAP,S 0.1-25 F
J254	87-033-240-019		TERMINAL,SP 4P324V1-5	C304	87-010-196-089		C-CAP,S 0.1-25 F
J652	87-099-814-019		JACK,PIN 3P WWW	C305	87-010-196-089		C-CAP,S 0.1-25 F
J653	87-099-813-019		JACK,PIN 3P RRR	C306	87-012-140-089		C-CAP,S 470P-50 CH
J801	87-033-239-019		TERMINAL,HSP-154V-2	C601	87-010-677-049		CAP,E 0.15-50 7L
L101	87-003-383-019		COIL,1UH-S	C602	87-010-321-089		C-CAP,S 82 P-50 CH
L102	87-003-383-019		COIL,1UH-S	C603	87-010-196-089		C-CAP,S 0.1-25 F
L403	87-007-341-019		COIL,TRAP 85K	C604	87-010-178-089		C-CAP,S 1000P-50 B
L404	87-007-341-019		COIL,TRAP 85K	C605	87-010-177-089		C-CAP,S 820P-50 SL
L451	87-007-342-019		COIL,OSC 85K BIAS	C606	87-010-112-049		CAP,E 100-16
L701	87-003-293-019		COIL,TRAP MPX	C608	87-010-406-049		CAP,E 22-50 SME
L702	87-003-293-019		COIL,TRAP MPX	C609	87-010-263-049		CAP,E 100-10
L741	87-A50-015-019		COIL,FM DET(TOK)	C610	87-012-142-089		C-CAP,S 0.33-16 F
L742	87-A90-051-019		FLTR,CPAZ-450(TOK)	C611	87-010-401-049		CAP,E 1-50 SME
L770	87-003-102-089		COIL,10UH	C612	87-010-196-089		C-CAP,S 0.1-25 F
L790	87-005-564-089		C-COIL 2.2UH	C613	87-010-322-089		C-CAP,S 100P-50 CH
L832	87-005-847-089		COIL,2.2UH(CECS)	C620	87-018-208-089		CAP,TC-U 0.047-50 F
L981	86-NF4-668-019		AM PACK 2(TOM)	C705	87-010-401-049		CAP,E 1-50 SME
△PR100	87-026-689-089		PROTECTOR,1A 60V 491	C706	87-010-401-049		CAP,E 1-50 SME
△PR103	87-026-681-089		PROTECTOR,5A 491 SERIES	C707	87-010-401-049		CAP,E 1-50 SME
△PR104	87-026-681-089		PROTECTOR,5A 491 SERIES	C708	87-010-401-049		CAP,E 1-50 SME
R100	87-029-060-089		RES,FUSE 33-1/4W J	C709	87-015-697-049		CAP,E 3.3-50 7L
R101	87-029-060-089		RES,FUSE 33-1/4W J	C710	87-015-697-049		CAP,E 3.3-50 7L
R105	87-022-600-089		RES,M/F 0.1-2W J	C711	87-010-322-089		C-CAP,S 100P-50 CH
R106	87-022-600-089		RES,M/F 0.1-2W J	C712	87-010-322-089		C-CAP,S 100P-50 CH
R998	87-029-060-019		RES,FR 33-1/4W J	C713	87-010-318-089		C-CAP,S 47P-50 CH
R999	87-029-060-019		RES,FR 33-1/4W J	C714	87-010-318-089		C-CAP,S 47P-50 CH
RY101	87-045-361-019		RELAY,DH12D2-OS(M)-2	C715	87-010-401-049		CAP,E 1-50 SME
RY102	87-045-382-019		RELAY,OUAZ-SH-112L	C716	87-010-401-049		CAP,E 1-50 SME
SFR301	87-024-355-089		SFR,33K DIA6 H	C718	87-010-545-049		CAP E 0.22-50 SME
SFR302	87-024-355-089		SFR,33K DIA6 H	C719	87-015-688-049		CAP E 4.7-35 7L SRA
SFR303	87-024-355-089		SFR,33K DIA6 H	C720	87-015-688-049		CAP,E 4.7-35 7L SRA
SFR304	87-024-355-089		SFR,33K DIA6 H	C722	87-010-370-049		CAP,E 330-6.3 SME
SFR305	87-024-356-089		SFR,47K DIA6 H	C732	87-010-197-089		C-CAP,S 0.01-25 B
SFR306	87-024-356-089		SFR,47K DIA6 H	C756	87-010-198-089		C-CAP,S 0.022-25 B
SFR451	87-024-356-089		SFR,47K DIA6 H	C801	87-016-552-089		C-CAP,S 0.082-16 BK
SFR452	87-024-356-089		SFR,47K DIA6 H	C802	87-010-186-089		C-CAP,S 4700P-50 B
SFR722	87-024-352-089		SFR,4.7K DIA6 H	C803	87-016-460-089		C-CAP,S 0.22-16 BK
TC701	87-011-253-089		TRIMER,30P LAR	C804	87-010-197-089		C-CAP,S 0.01-25 B
TH241	87-A90-157-089		C-THMS 4.7K<HE,HR>	C805	87-016-369-089		C-CAP,S 0.033-25 BK
VR651	82-NF5-660-019		VR 50K BX2 RK14K 12A	C806	87-010-426-089		C-CAP,S 0.012-25 BK
W101	85-NF5-628-019		F-CABLE 7P-2.5	C807	87-016-552-089		C-CAP,S 0.082-16 B K
X703	84-508-618-019		VIB,CER CSB 456 F/5	C808	87-012-365-089		C-CAP,S 0.027-25V BK
X721	87-030-372-019		VIB,XTAL 7.2MHZ	C809	87-010-426-089		C-CAP,S 0.012-25 B K
				C810	87-016-369-089		C-CAP,S 0.033-25 B K
				C811	87-012-365-089		C-CAP,S 0.027-25 B K
				C812	87-016-552-089		C-CAP,S 0.082-16 B K
				C813	87-010-181-089		C-CAP,S 1800P-50 B
				C814	87-016-552-089		C-CAP,S 0.082-16 BK
				C815	87-010-186-089		C-CAP,S 4700P-50 BK
				C816	87-016-460-089		C-CAP,S 0.22-16 B K
FRONT C.B							
C101	87-010-318-089		C-CAP,S 47P-50 CH				
C102	87-010-317-089		C-CAP,S 39P-50 CH				
C103	87-010-315-089		C-CAP,S 27P-50 CH				
C104	87-012-140-089		C-CAP,S 470P-50 CH				
C105	87-010-196-089		C-CAP,S 0.1-25 F				

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C817	87-010-177-089		C-CAP,S 820 P-50 SL	S207	87-036-215-089		SW,TACT EVQ21404M
C818	87-016-460-089		C-CAP,S 0.22 -16 B	S208	87-036-215-089		SW,TACT EVQ21404M
C819	87-010-181-089		C-CAP,S 1800P-50 B	S209	87-036-215-089		SW,TACT EVQ21404M
C820	87-016-526-089		C-CAP,S 0.47-16 BK	S210	87-036-215-089		SW,TACT EVQ21404M
C821	87-010-186-089		C-CAP,S 4700P-50 B	S211	87-036-215-089		SW,TACT EVQ21404M
C822	87-010-177-089		C-CAP,S 820 P-50 B	S212	87-036-215-089		SW,TACT EVQ21404M
C823	87-010-197-089		C-CAP,S 0.01-25 BK	S213	87-036-215-089		SW,TACT EVQ21404M
C824	87-010-181-089		C-CAP,S 1800P-50 B	S214	87-036-215-089		SW,TACT EVQ21404M
C825	87-016-460-089		C-CAP,S 0.22-16 B	S215	87-036-215-089		SW,TACT EVQ21404M
C826	87-010-181-089		C-CAP,S 1800P-50 B	S216	87-036-215-089		SW,TACT EVQ21404M
C827	87-016-526-089		C-CAP,S 0.47-16 BK	S217	87-036-215-089		SW,TACT EVQ21404M
C828	87-010-186-089		C-CAP,S 4700P-50 B	S218	87-036-215-089		SW,TACT EVQ21404M
C829	87-010-404-049		CAP,E 4.7-50 SME	S219	87-036-215-089		SW,TACT EVQ21404M
C830	87-010-404-049		CAP,E 4.7-50 SME	S220	87-036-215-089		SW,TACT EVQ21404M
C831	87-015-682-049		CAP,E 22-16 7L	S221	87-036-215-089		SW,TACT EVQ21404M
C832	87-015-682-049		CAP,E 22-16 7L	S222	87-036-215-089		SW,TACT EVQ21404M
C833	87-012-157-089		C-CAP,S 330P-50 CH	S223	87-036-215-089		SW,TACT EVQ21404M
C834	87-012-157-089		C-CAP,S 330P-50 CH	S224	87-036-215-089		SW,TACT EVQ21404M
C835	87-012-140-089		C-CAP,S 470P-50 CH	S225	87-036-215-089		SW,TACT EVQ21404M
C836	87-012-140-089		C-CAP,S 470P-50 CH	S226	87-036-215-089		SW,TACT EVQ21404M
C837	87-015-696-049		CAP,E 2.2-50 7L SRA	S227	87-036-215-089		SW,TACT EVQ21404M
C838	87-015-696-049		CAP,E 2.2-50 7L SRA	S228	87-A90-095-089		SW,TACT EVQ11G04M
C850	87-010-060-049		CAP,E 100-1 7L	S229	87-A90-095-089		SW,TACT EVQ11G04M
C851	87-010-196-089		C-CAP,S 0.1-25 F	S230	87-A90-095-089		SW,TACT EVQ11G04M
FL201	86-MA2-610-019		FL,29U56101BA	S231	87-A90-095-089		SW,TACT EVQ11G04M
J601	87-099-659-019		JACK,6.3 JY-6314-01130	S232	87-A90-095-089		SW,TACT EVQ11G04M
J602	87-099-659-019		JACK,6.3 JY-6314-01130	S233	87-036-215-089		SW,TACT EVQ21404M
LED201	87-017-731-080		LED,SEL1510CM2	S234	87-036-215-089		SW,TACT EVQ21404M
LED202	87-017-731-080		LED,SEL1510CM2	S236	87-036-215-089		SW,TACT EVQ21404M
LED203	87-017-731-080		LED,SEL1510CM2	VR601	85-MA2-605-019		VR,10KB
LED204	87-017-731-080		LED,SEL1510CM2	VR602	85-MA3-604-019		VR,20KA MIC
LED205	87-017-731-080		LED,SEL1510CM2	W102	84-MA1-692-019		CABLE,FFC 14P-1.25
LED206	87-017-731-080		LED,SEL1510CM2	W501	85-MA2-602-019		CABLE,FFC 15P 1.25
LED207	87-017-731-080		LED,SEL1510CM2	W801	86-MA2-613-019		F-CABLE,5P 2.0 170MM
LED208	87-017-731-080		LED,SEL1510CM2	WH801	87-009-311-019		CONN,5P 51048
LED209	87-017-731-080		LED,SEL1510CM2	X101	87-030-376-089		VIB,CER CSA5.76MG200
LED210	87-017-731-080		LED,SEL1510CM2				
LED211	87-017-785-080		LED,SEL 4214S				
LED212	87-017-785-080		LED,SEL 4214S	VR C.B			
LED213	87-017-785-080		LED,SEL 4214S				
LED214	87-017-785-080		LED,SEL 4214S	C751	87-010-404-049		CAP,E 4.7-50 SME
LED215	87-017-785-080		LED,SEL 4214S	C752	87-010-404-049		CAP,E 4.7-50 SME
LED216	87-017-297-080		LED,SEL1550CM TP7	C753	87-010-402-049		CAP,E 2.2-50 SME
LED217	87-017-297-080		LED,SEL1550CM TP7	C754	87-010-402-049		CAP,E 2.2-50 SME
LED218	87-017-297-080		LED,SEL1550CM TP7	C755	87-010-263-049		CAP,E 100-10
LED219	87-017-297-080		LED,SEL1550CM TP7	C901	87-010-263-049		CAP,E 100-10
LED220	87-017-297-080		LED,SEL1550CM TP7	C902	87-010-196-089		C-CAP,S 0.1-25 F
LED221	87-017-297-080		LED,SEL1550CM TP7	C903	87-010-152-089		C-CAP,S 8P-50 CH
LED222	87-017-297-080		LED,SEL1550CM TP7	C904	87-010-152-089		C-CAP,S 8P-50 CH
LED224	87-070-270-010		LED,SEL1510CM2 LF34	C905	87-010-197-089		C-CAP,S 0.01-25 B
LED225	87-070-300-010		LED,SEL1250SM LF34				
LED226	87-070-270-010		LED,SEL1510CM2 LF34	C906	87-010-179-089		C-CAP,S 1200P-50 B
LED227	87-070-270-010		LED,SEL1510CM2 LF34	C907	87-010-196-089		C-CAP,S 0.1-25 F
LED228	87-070-300-019		LED,SEL 1250SM LF34	C908	87-012-142-089		C-CAP,S 0.33-16 F
LED229	87-070-270-019		LED,SEL1510CM2 LF34	C909	87-012-142-089		C-CAP,S 0.33-16 F
LED701	87-017-785-080		LED,SEL 4214S	C910	87-010-196-089		C-CAP,S 0.1-25 F
LED702	87-017-785-080		LED,SEL 4214S	C911	87-010-187-089		C-CAP,S 5600P-50 B
LED703	87-017-785-080		LED,SEL 4214S	C912	87-010-177-089		C-CAP,S 820P-50 SL
LED704	87-017-785-080		LED,SEL 4214S	C913	87-010-179-089		C-CAP,S 1200P-50 B
LED705	87-017-785-080		LED,SEL 4214S	C914	87-012-182-089		C-CAP,S 2200P-50 B
LED706	87-017-785-080		LED,SEL 4214S	C917	87-010-182-089		C-CAP,S 2200P-50 B
LED707	87-017-785-080		LED,SEL 4214S	C918	87-010-182-089		C-CAP,S 2200P-50 B
LED708	87-017-785-080		LED,SEL 4214S	C919	87-010-405-049		CAP,E 10-50 SME
LED709	87-017-785-080		LED,SEL 4214S	C920	87-010-405-049		CAP,E 10-50 SME
LED710	87-017-785-080		LED,SEL 4214S	C921	87-010-263-049		CAP,E 100-10
LED711	87-017-785-080		LED,SEL 4214S	C922	87-010-401-049		CAP,E 1-50 SME
LED712	87-017-785-080		LED,SEL 4214S	L901	87-003-153-089		COIL,45UH JFLR50
S201	87-036-215-089		SW,TACT EVQ21404M				
S202	87-036-215-089		SW,TACT EVQ21404M	CD KEY C.B			
S203	87-036-215-089		SW,TACT EVQ21404M				
S204	87-036-215-089		SW,TACT EVQ21404M				

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LED401	87-017-785-080		LED,SEL 4214S	C32	87-010-198-089		C-CAP,S 0.022-25 B
LED402	87-017-785-080		LED,SEL 4214S	C33	87-016-081-089		C-CAP,S 0.1-16 RK
LED403	87-017-785-080		LED,SEL 4214S	C34	87-010-197-089		C-CAP,S 0.01-25 B
LED404	87-017-785-080		LED,SEL 4214S	C35	87-010-263-049		CAP,E 100-10 SME
LED405	87-017-785-080		LED,SEL 4214S	C36	87-015-677-049		CAP,E 100-6.3 7L
S401	87-036-215-089		SW,TACT EVQ21404M	C37	87-010-197-089		C-CAP,S 0.01-25 B
S402	87-036-215-089		SW,TACT EVQ21404M	C38	87-010-260-089		CAP,E 47-25 SME
S403	87-036-215-089		SW,TACT EVQ21404M	C39	87-010-196-089		C-CAP,S 0.1-25 F
S404	87-036-215-089		SW,TACT EVQ21404M	C91	87-010-263-049		CAP,E 100-10 SME
S405	87-036-215-089		SW,TACT EVQ21404M	C101	87-010-596-089		C-CAP,S 0.047-16 RK
S406	87-036-215-089		SW,TACT EVQ21404M	C102	87-010-188-089		C-CAP,S 6800P-50 B
S407	87-036-215-089		SW,TACT EVQ21404M	C103	87-018-132-089		CAP,TC-U 2200P-16 X
W401	86-MA2-612-019		F-CABLE,8P 2.0 250MM	C104	87-012-156-089		C-CAP,S 220P-50 CH
				C105	87-010-404-049		CAP,E 4.7-50 SME
				C106	87-010-263-049		CAP,E 100-10 SME
AC C.B				C107	87-010-197-089		C-CAP,S 0.01-25 B
△ PR101	87-026-682-089		PROTECTOR,10A 60V 491	C108	87-016-526-089		C-CAP,S 0.47-16 BK
△ PR102	87-026-682-089		PROTECTOR,10A 60V 491	C109	87-010-197-089		C-CAP,S 0.01-25 B
PT C.B				C112	87-010-318-089		C-CAP,S 47P-50 CH
△				C113	87-010-263-089		CAP,E 100-10 SME 5X11
△	82-304-743-019		TERMINAL,1P	C114	87-010-197-089		C-CAP,S 0.01-25 B
△ CF109	87-033-147-019		CLAMP,FUSE	C115	87-010-318-089		C-CAP,S 47P-50 CH
△ CF110	87-033-147-019		CLAMP,FUSE	C116	87-010-318-089		C-CAP,S 47P-50 CH
△ F109	87-035-370-019		FUSE,6.3A-250V T	C117	87-010-197-089		C-CAP,S 0.01-25 B
△ PT1	86-MA2-606-019		PT,HR<HE,HR>	C122	87-010-186-089		C-CAP,S 4700P-50 B
△ PT1	86-MA2-607-019		PT,LH<LH>	C123	87-010-382-049		CAP,E 22-25 SME
△ SW101	87-036-387-019		SW,SL 1-2-3	C201	87-010-318-089		C-CAP,S 47P-50 CH
DECK C.B				C202	87-010-318-089		C-CAP,S 47P-50 CH
SFR1	87-024-581-089		SFR,3.3K DIA 6H	C203	87-010-321-089		C-CAP,S 82P-50 CH
SOL1	82-ZM1-618-010		SOL ASSY, 27	C204	87-010-321-089		C-CAP,S 82P-50 CH
SOL2	82-ZM1-618-010		SOL ASSY, 27	C205	87-010-321-089		C-CAP,S 82P-50 CH
SW1	87-036-378-010		SW, PUSH 1-1-1 SH2	C206	87-010-321-089		C-CAP,S 82P-50 CH
SW2	87-036-378-010		SW, PUSH 1-1-1 SH2	C207	87-012-153-089		C-CAP,S 120P-50 CH
SW3	87-036-378-010		SW, PUSH 1-1-1 SH2	C208	87-012-153-089		C-CAP,S 120P-50 CH
SW4	87-036-378-010		SW, PUSH 1-1-1 SH2	C209	87-012-153-089		C-CAP,S 120P-50 CH
SW5	87-036-378-010		SW, PUSH 1-1-1 SH2	C210	87-012-153-089		C-CAP,S 120P-50 CH
SW6	87-036-378-019		SW, PUSH 1-1-1 SH2	C211	87-010-403-049		CAP,E 3.3-50 SME
SW8	87-036-378-019		SW, PUSH 1-1-1 SH2	C212	87-010-403-089		CAP,E 3.3-50 SME
HEAD-1 C.B				C213	87-010-186-089		C-CAP,S 4700P-50 B
HEAD-2 C.B				C214	87-010-186-089		C-CAP,S 4700P-50 B
CD MAIN C.B				C231	87-016-251-049		CAP,E 220-16 SMG
	86-ZG1-605-019		CABLE,FFC 16P	C232	87-010-263-089		CAP,E 100-10 SME 5X11
	86-ZG1-608-019		CABLE,FFC 8P	C301	87-010-196-089		C-CAP,S 0.1-25 F
C11	87-010-182-089		C-CAP,S 2200P-50 B	C302	87-010-260-089		CAP,E 47-25 SME
C12	87-016-081-089		C-CAP,S 0.1-16 RK	C401	87-010-403-089		CAP,E 3.3-50 SME
C13	87-016-081-089		C-CAP,S 0.1-16 RK	C402	87-010-403-049		CAP,E 3.3-50 SME
C14	87-016-081-089		C-CAP,S 0.1-16 RK	C501	87-016-459-049		CAP,E 470-10 SMG
C15	87-010-404-049		CAP,E 4.7-50 SME	C502	87-010-197-089		C-CAP,S 0.01-25 B
C16	87-016-081-089		C-CAP,S 0.1-16 RK	C503	87-010-263-049		CAP,E 100-10 SME
C17	87-010-197-089		C-CAP,S 0.01-25 B	C504	87-010-196-089		C-CAP,S 0.1-25 F
C18	87-010-402-049		CAP,E 2.2-50 SME	C505	87-010-196-089		C-CAP,S 0.1-25 F
C19	87-010-382-049		CAP,E 22-25 SME	C506	87-010-196-089		C-CAP,S 0.1-25 F
C20	87-010-213-089		C-CAP,S 0.015-25 B	C507	87-010-196-089		C-CAP,S 0.1-25 F
C21	87-010-197-089		C-CAP,S 0.01-25 B	C508	87-016-459-049		CAP,E 470-10 SMG
C22	87-010-263-049		CAP,E 100-10 SME	C509	87-010-196-089		C-CAP,S 0.1-25 F
C23	87-010-197-089		C-CAP,S 0.01-25 B	C510	87-010-196-089		C-CAP,S 0.1-25 F
C24	87-016-369-089		C-CAP,S 0.033-25 B K	C601	87-010-196-089		C-CAP,S 0.1-25 F
C25	87-010-197-089		C-CAP,S 0.01-25 B	C602	87-016-251-049		CAP,E 220-16 SMG
C26	87-016-369-089		C-CAP,S 0.033-25 B K	C603	87-010-196-089		C-CAP,S 0.1-25 F
C27	87-010-197-089		C-CAP,S 0.01-25 B	C701	87-010-322-089		C-CAP,S 100P-50 CH
C29	87-010-154-089		C-CAP,S 10P-50 D CH	C702	87-010-318-089		C-CAP,S 47P-50 CH
C30	87-010-263-049		CAP,E 100-10 SME	C703	87-010-318-089		C-CAP,S 47P-50 CH
C31	87-010-178-089		C-CAP,S 1000P-50 B	C705	87-010-178-089		C-CAP,S 1000P-50 B
				C901	87-010-260-049		CAP,E 47-25 SME
				C902	87-010-196-089		C-CAP,S 0.1-25 F
				L11	87-003-102-089		COIL,10UH K LAL02
				LED901	87-A40-123-019		LED,SLZ-8128A-01-B
				M601	87-045-305-019		MOTOR,RF-500TB
				R36	87-022-365-089		C-RES,S 100K-1/10W F
				R37	87-022-363-089		C-RES,S 68K-1/10W F

TRANSISTOR ILLUSTRATION

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
R38	87-022-363-089		C-RES, S 68K-1/10W F
R39	87-022-363-089		C-RES, S 68K-1/10W F
R40	87-022-363-089		C-RES, S 68K-1/10W F
R41	87-022-365-089		C-RES, S 100K-1/10W F
SFR11	87-024-175-089		SFR, 47K DIA6V
SFR12	87-024-176-089		SFR, 100K DIA6V
SFR13	87-024-176-089		SFR, 100K DIA6V
SW601	87-036-109-019		SW, PUSH SPPB 61
SW602	87-036-109-019		SW, PUSH SPPB 61
SW603	87-036-109-019		SW, PUSH SPPB 61
X101	87-030-402-089		VIB, XTAL 16.9344MHZ



E C B



E C B

2SA1296
2SC3266
KTA1266
KTC3198

2SA952 2SA1015
2SD655 2SC2001
2SA970 CSD655

LED C.B

LED701	87-017-733-080	LED, SEL1250SM
LED702	87-017-350-080	LED, SEL1550CM
LED703	87-017-733-080	LED, SEL1250SM



B C E



S G D

2SB1370

2SK246

T-T C.B

C411	87-018-214-089	CAP, TC U 0.1-50
LED411	87-070-288-019	LED, GL380
M401	87-A90-036-019	MOT ASSY, RF-300CA-11
PS401	87-A90-156-019	SNSR, SG-240
Q411	87-A30-031-019	P-TR, PT380F



E C B



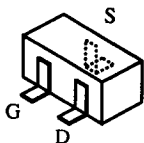
E C B

DTA114
2SA933

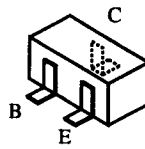
2SA1318
2SC3331

CD MOTOR C.B

SW1	87-036-340-019	SW, LEAF LSA-1121
M20	87-045-358-019	MOT, RF-310TA 43
M21	87-045-356-019	MOT, RF-310TA 30



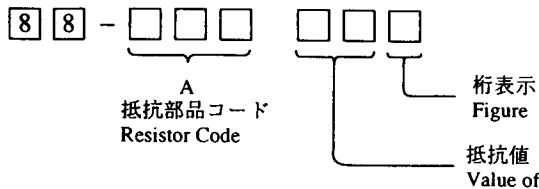
2SK543



2SA1162 DTA114
2SC2712 DTA143
2SC2412 DTA144
2SC3722 DTC123
2SC3326 DTC114
2SC2714 DTC143
DTC144

○ 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

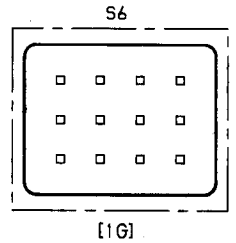
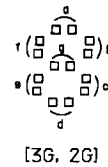
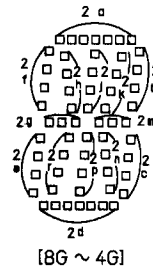
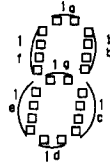
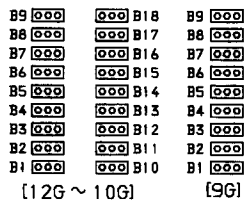
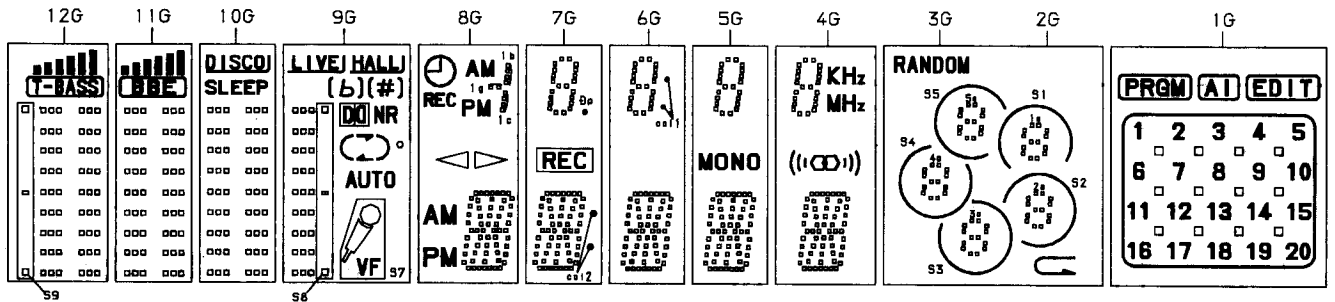


チップ抵抗
Chip resistor

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 ANODE CONNECTION & GRID ASSIGNMENT

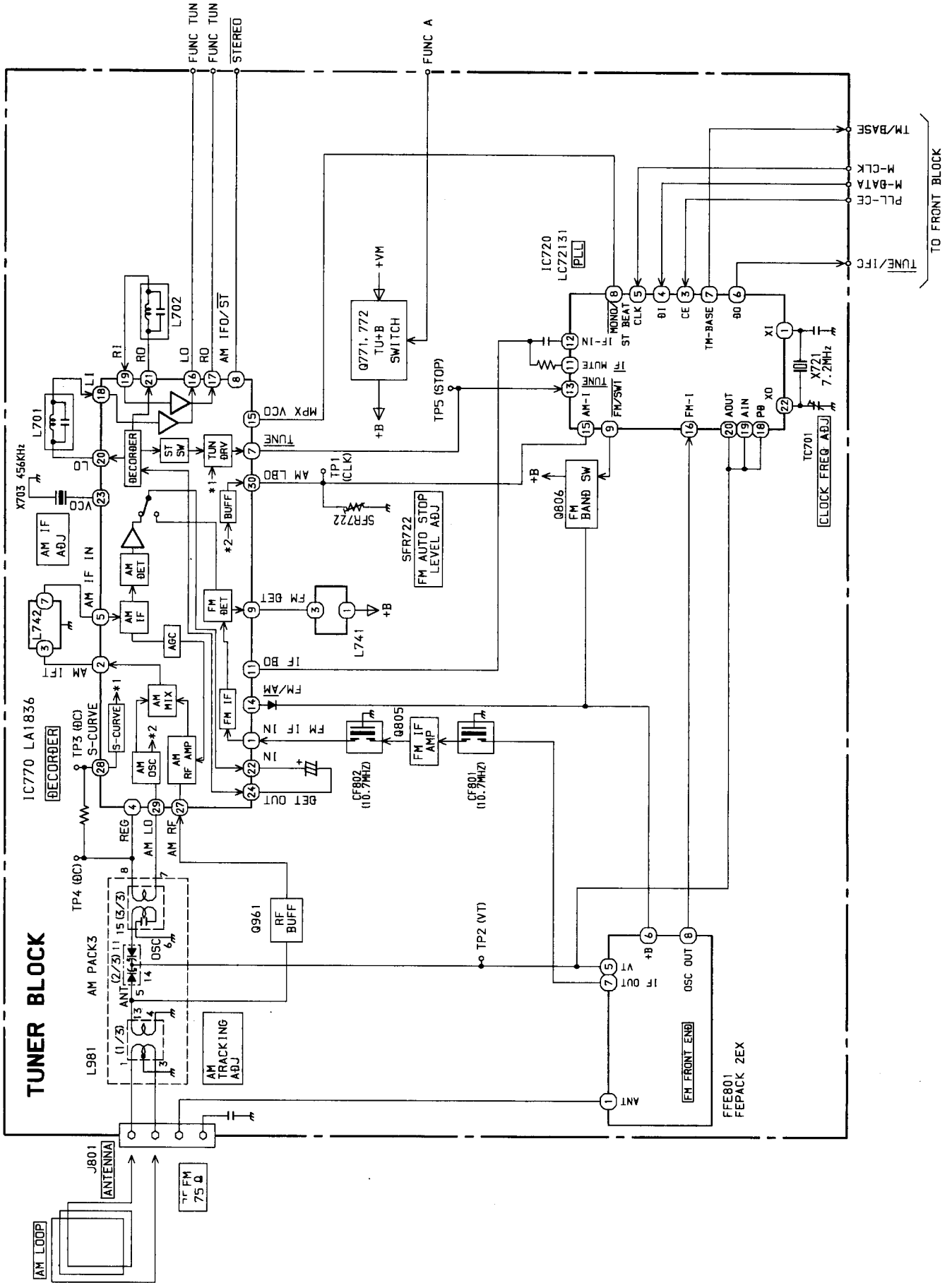
FL, 29U56101BA
GRID ASSIGNMENT

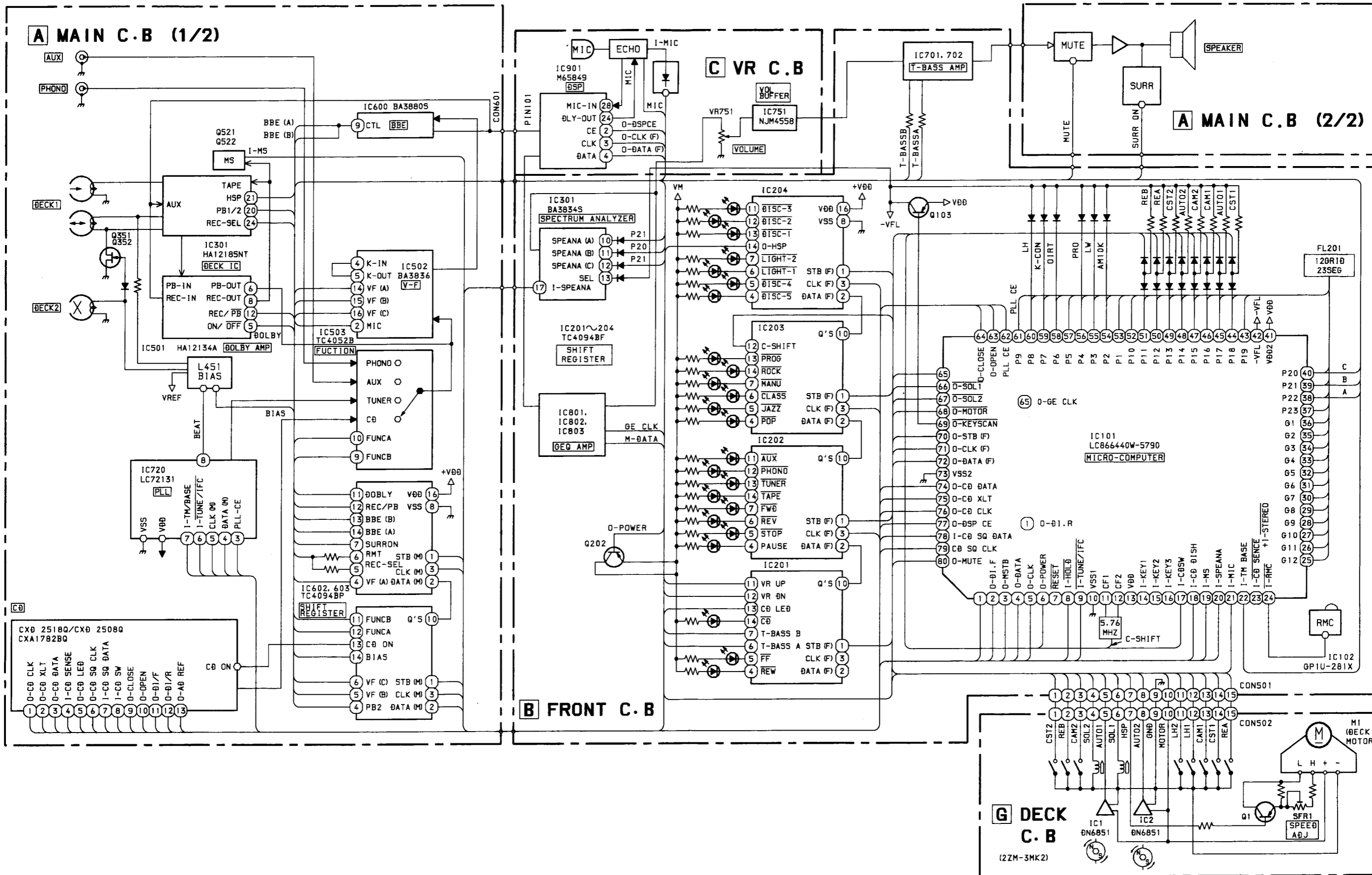


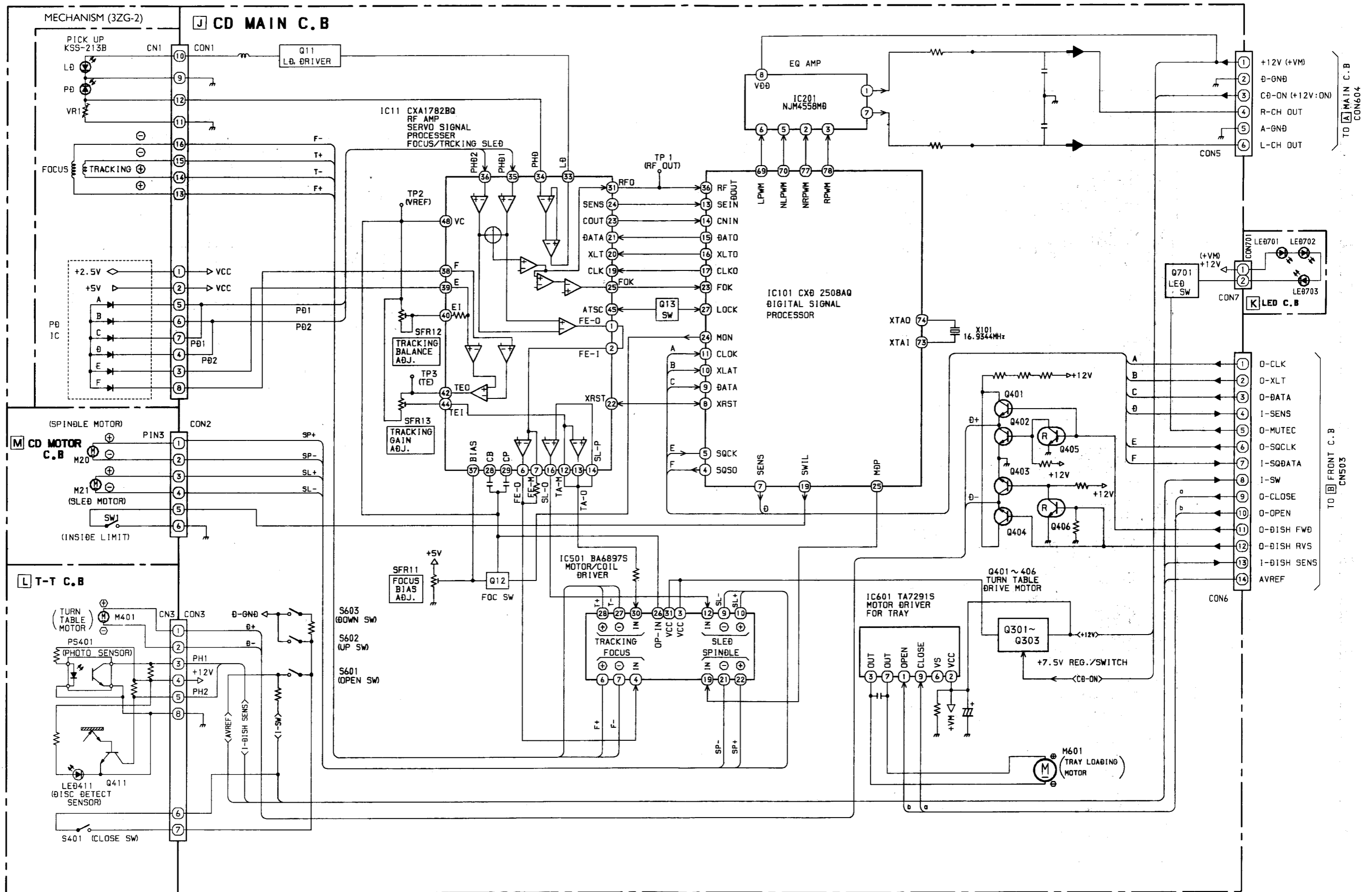
ANODE CONNECTION

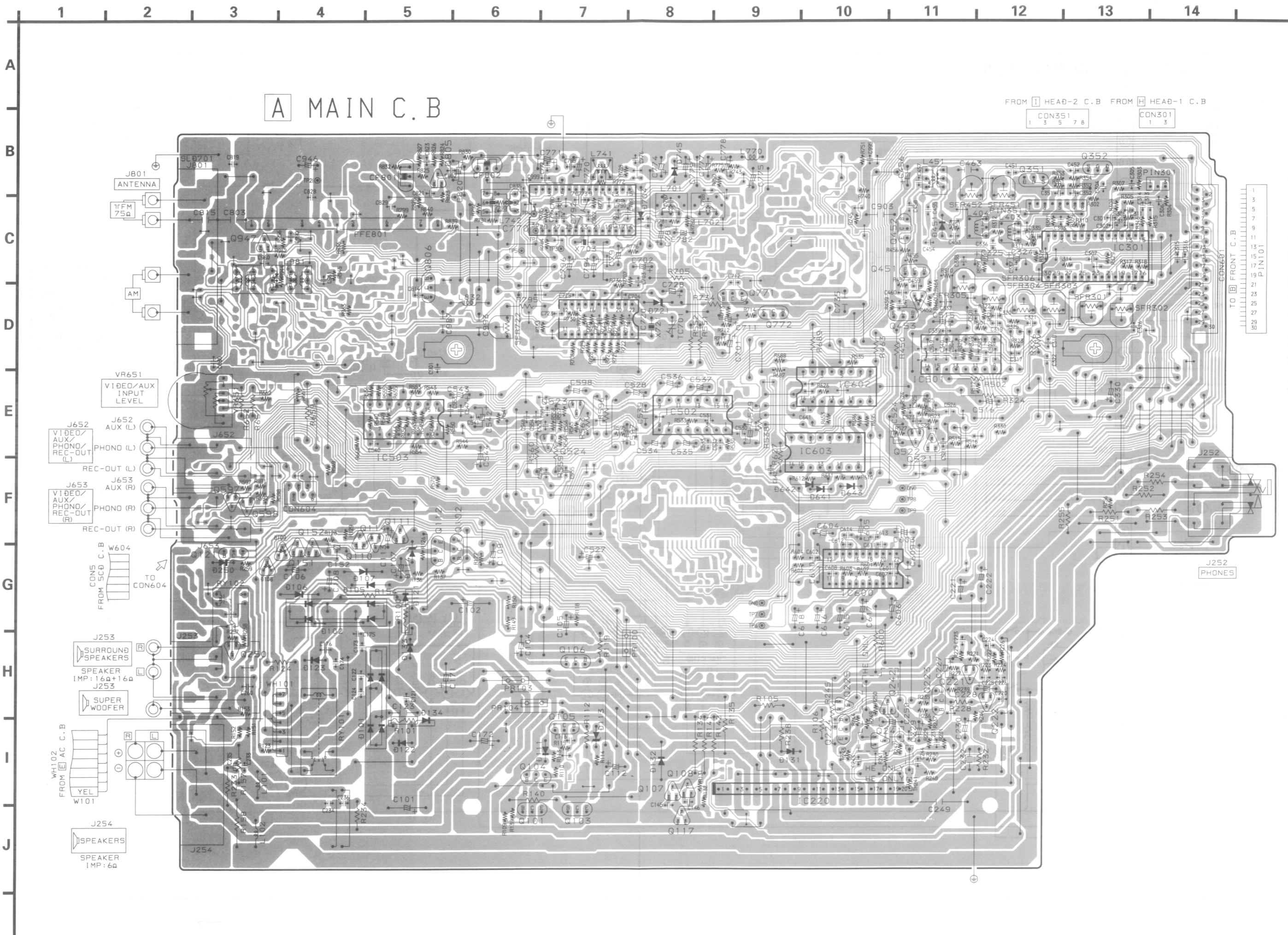
	12G	11G	10G	9G	8G	7G	6G	5G	4G	3G	2G	1G
P1	B10	B10	B10	S7	2d	2d	2d	2d	2d	S3		20
P2	B1	B1	B1	B1	2j, 2p	2j, 2p	2j, 2p	2j, 2p	2j, 2p	3a, 3d		19
P3	B11	B11	B11	S8	2n	2n	2n	2n	2n	3e	—	18
P4	B2	B2	B2	B2	2r	2r	2r	2r	2r	3c		17
P5	B12	B12	B12	AUTO	2c	2c	2c	2c	2c	3g	—	16
P6	B3	B3	B3	B3	2e	2e	2e	2e	2e	3f	—	15
P7	B13	B13	B13		2m	2m	2m	2m	2m	3b		14
P8	B4	B4	B4	B4	2g	2g	2g	2g	2g	4a, 4d	2a, 2d	13
P9	B5	B5	B5	B5	2f	2f	2f	2f	2f	4e	2e	12
P10	B15	B15	B15		2b	2b	2b	2b	2b	4c	2c	11
P11	B6	B6	B6	B6	2k	2k	2k	2k	2k	4g	2g	10
P12	B16	B16	B16		2h	2h	2h	2h	2h	4f	2f	9
P13	B7	B7	B7	B7	2a	2a	2a	2a	2a	4b	2b	8
P14	B14	B14	B14		AM (DOWN)	c a 2		—	((()))	S4	S2	7
P15	B17	B17	B17	b	PM (DOWN)	REC	c o 1 (UP)	—	MHz	S5		6
P16	B8	B8	B8	B8		1d	c o 1 (DOWN)	MONO	KHz	S1		5
P17	B18	B18	B18	([b])		1d	1d	1d	1d	5a, 5d	1a, 1d	4
P18	B9	B9	B9	B9	REC	1e	1e	1e	1e	5e	1e	3
P19	B19	B19	SLEEP	([#])	PM (UP)	1c	1c	1c	1c	5c	1c	2
P20	B20	B20	DISCO HALL		1g	1g	1g	1g	1g	5g	1g	1
P21	B21	B21	[DISCO] [HALL]		1b, 1c	1f	1f	1f	1f	5f	1f	EDIT
P22	T-BASS	BBE	[LIVE]			1b	1b	1b	1b	5b	1b	[AI]
P23	—	—	LIVE		AM (UP)	1a	1a	1a	1a	RANDOM		[PRGM]
P24	S9	—	—	—	—	—	—	—	—	—	—	S6

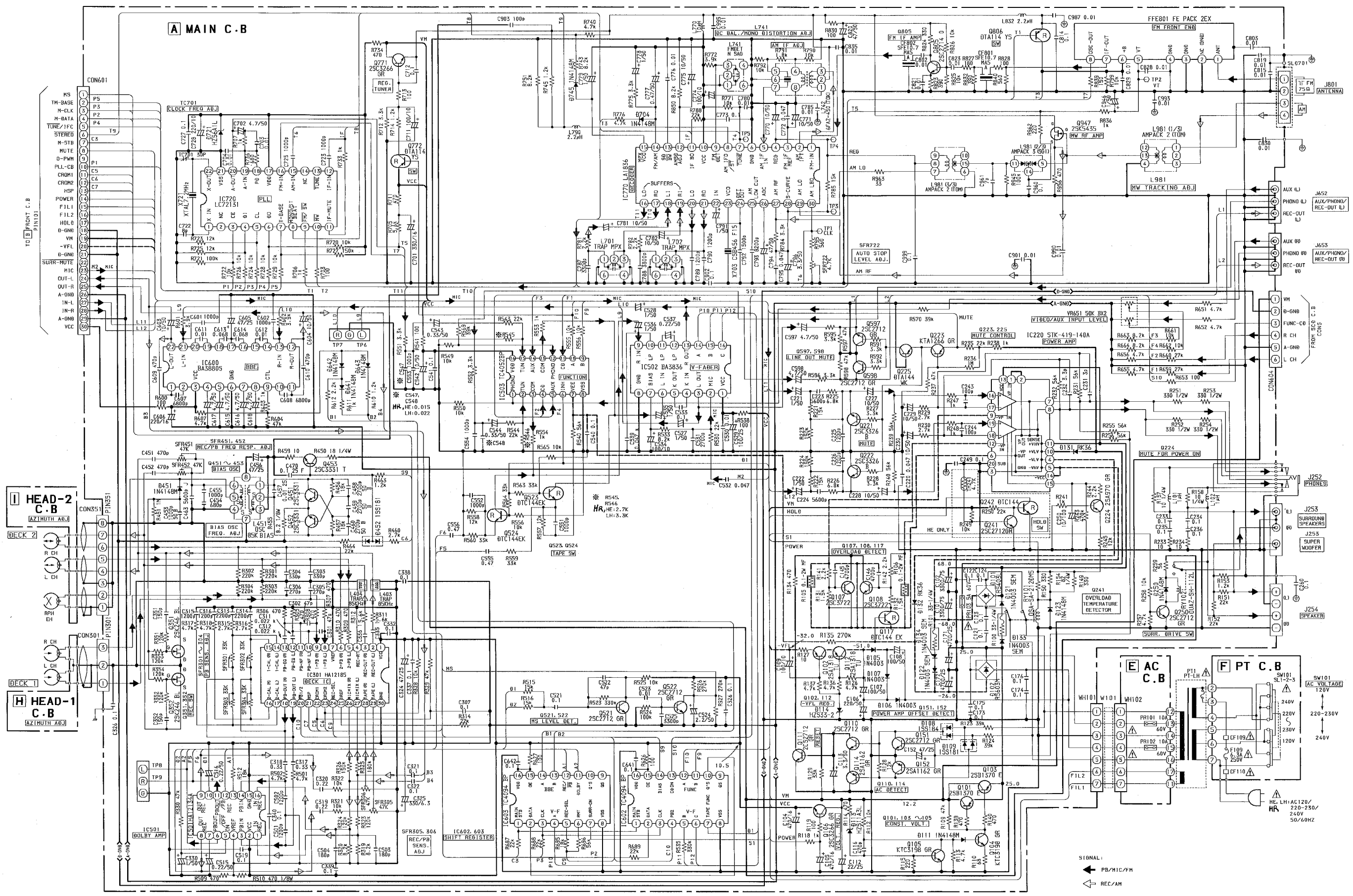
BLOCK DIAGRAM - 1 (TUNER)





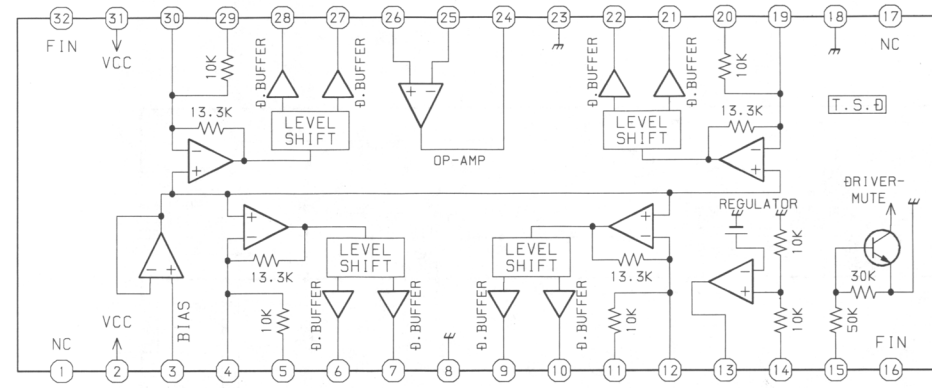




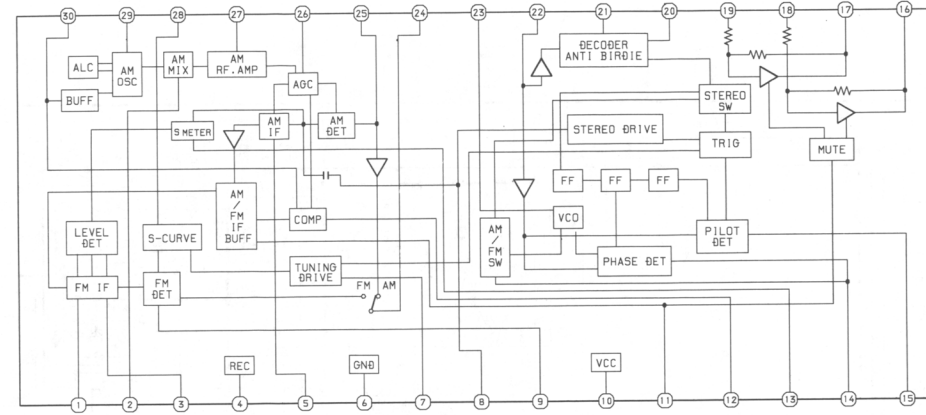


IC BLOCK DIAGRAM - 1

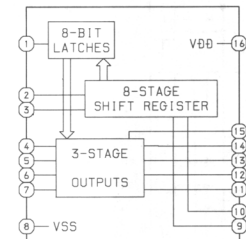
IC, BA6897



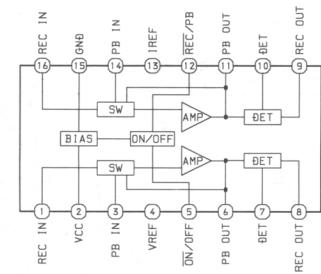
IC, LA1836



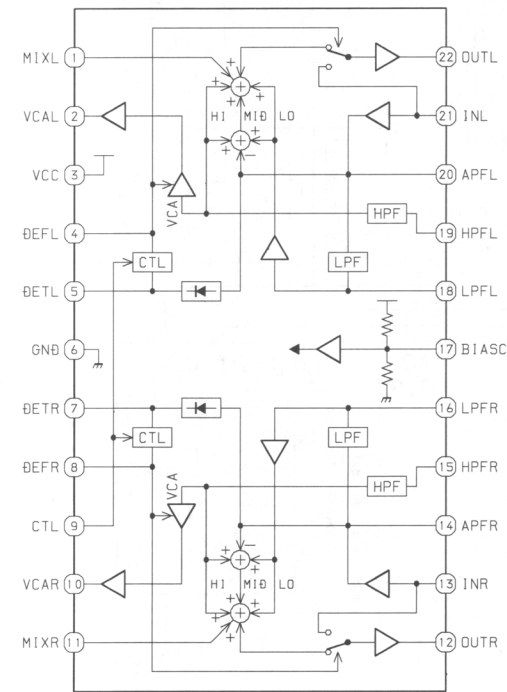
IC, TC4094BP



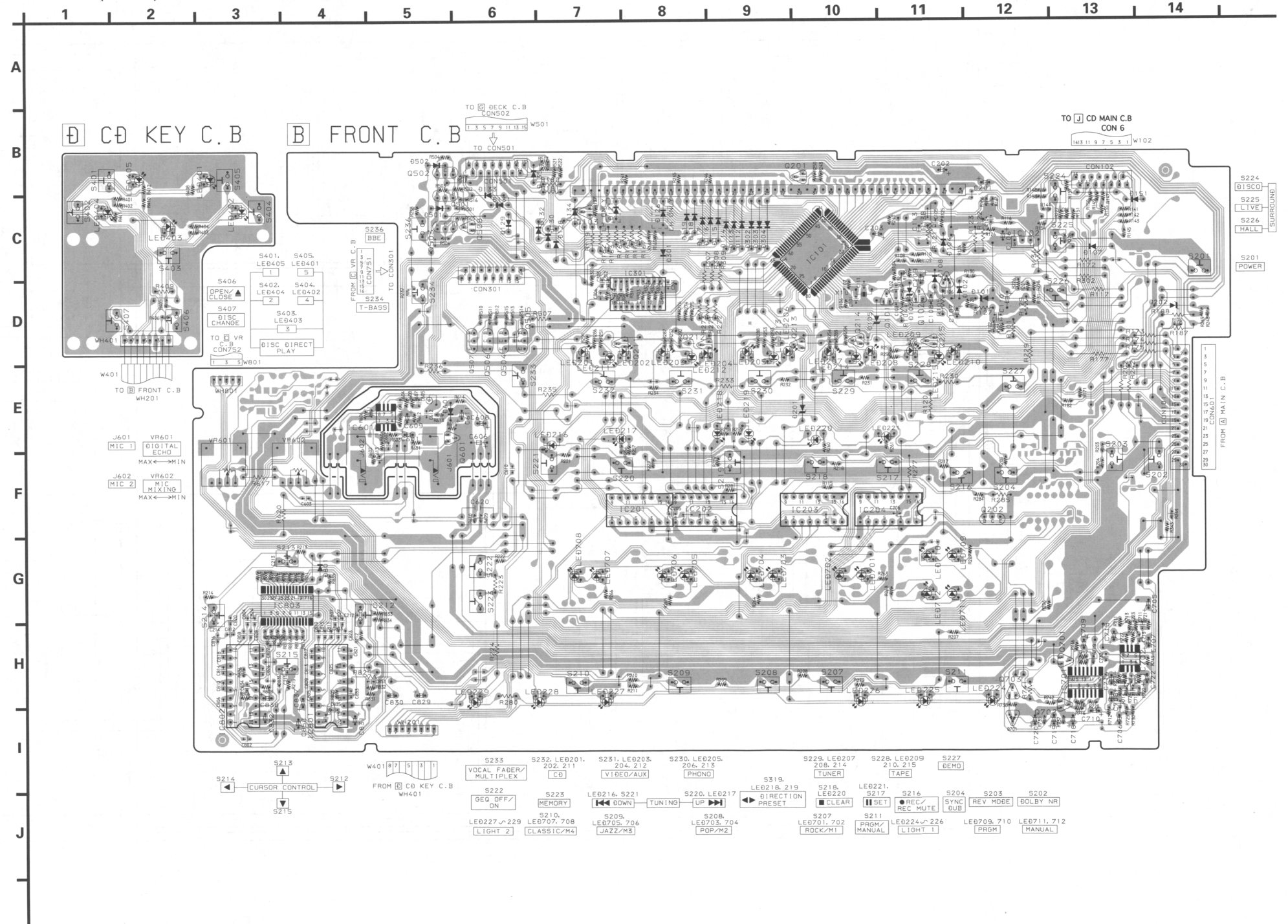
IC, HA12134

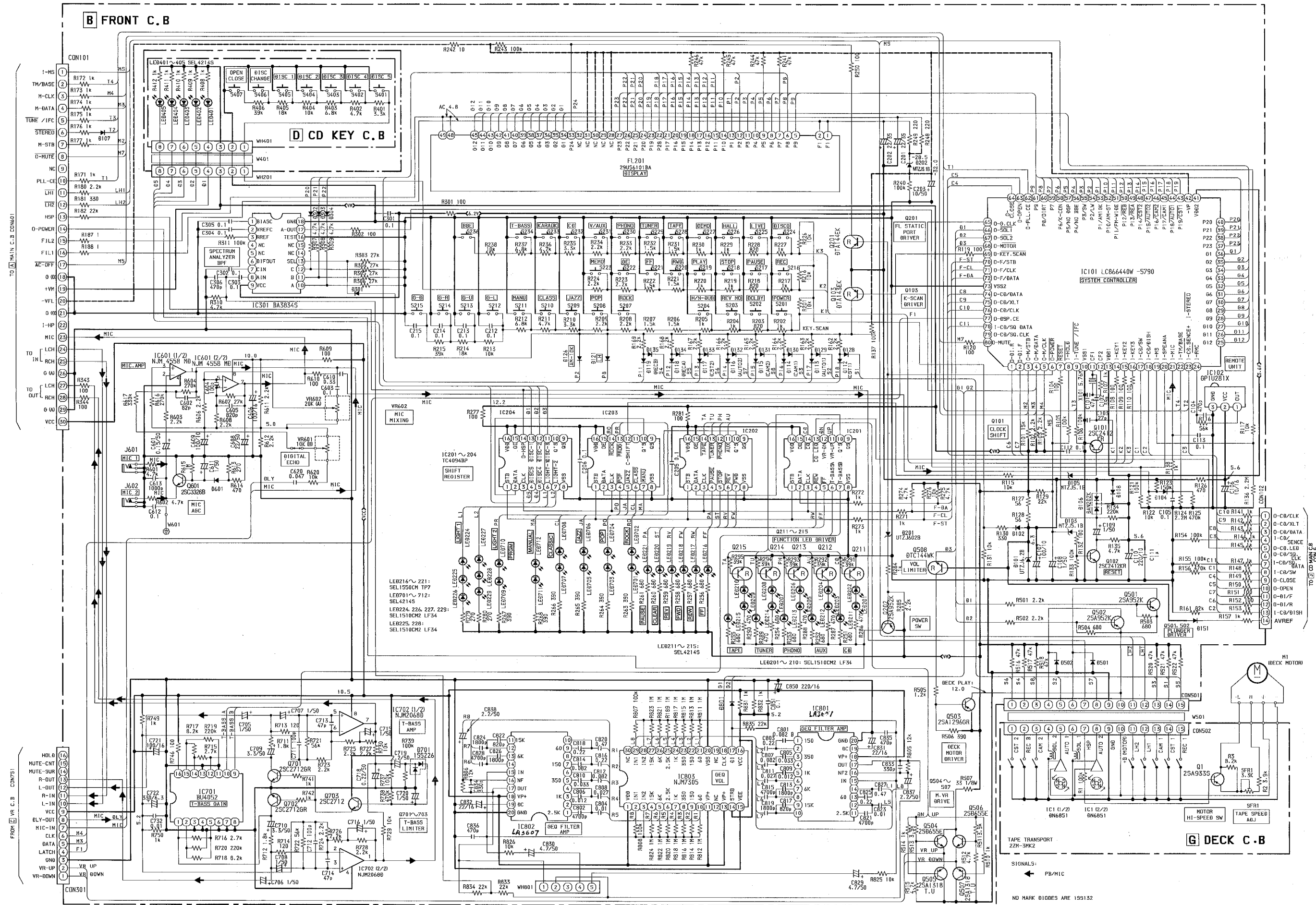


IC, BA3880S



WIRING - 2 (FRONT)





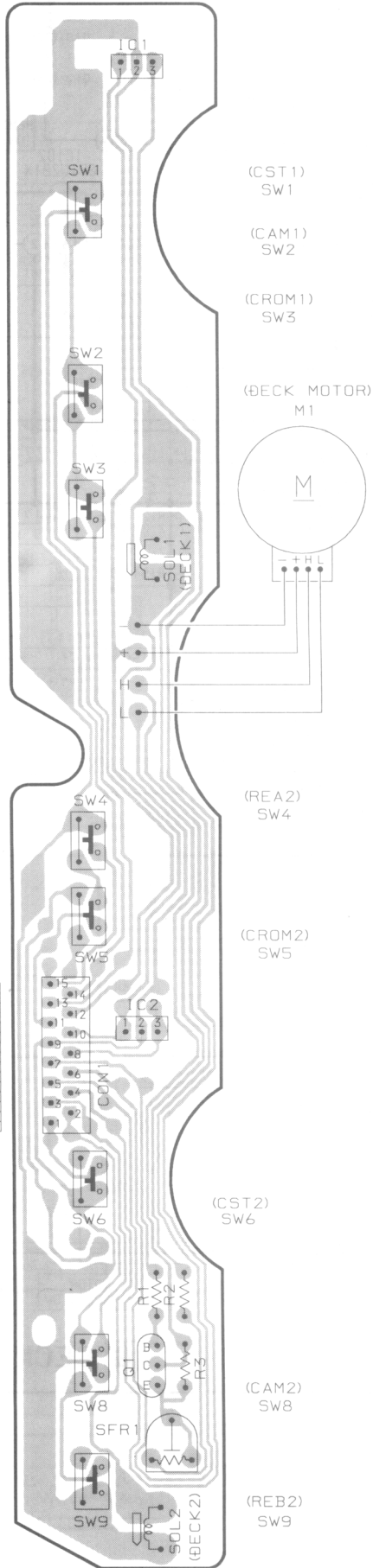
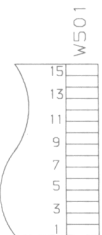
WIRING - 3 (DECK)

1 2 3 4 5 6 7

A
B
C
D
E
F
G
H
I
J

G DECK C.B

FROM [B] FRONT C.B
CON501



(CST1)
SW1

(CAM1)
SW2

(CROM1)
SW3

(DECK MOTOR)
M1

(REA2)
SW4

(CROM2)
SW5

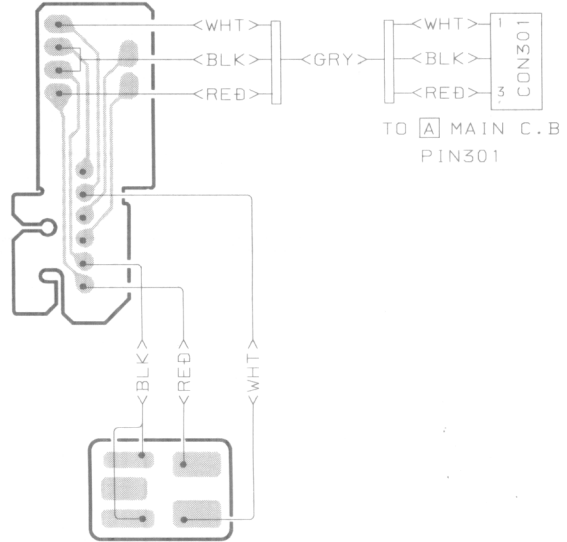
(CST2)
SW6

(CAM2)
SW8

(REB2)
SW9

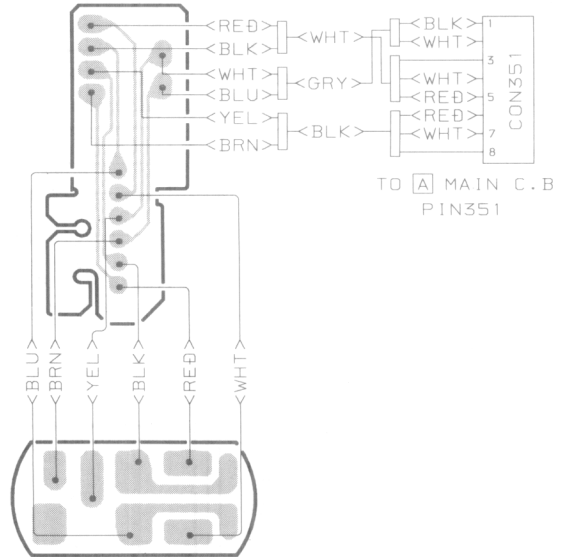
H HEAD-1 C.B

P HEAD (DECK-1)

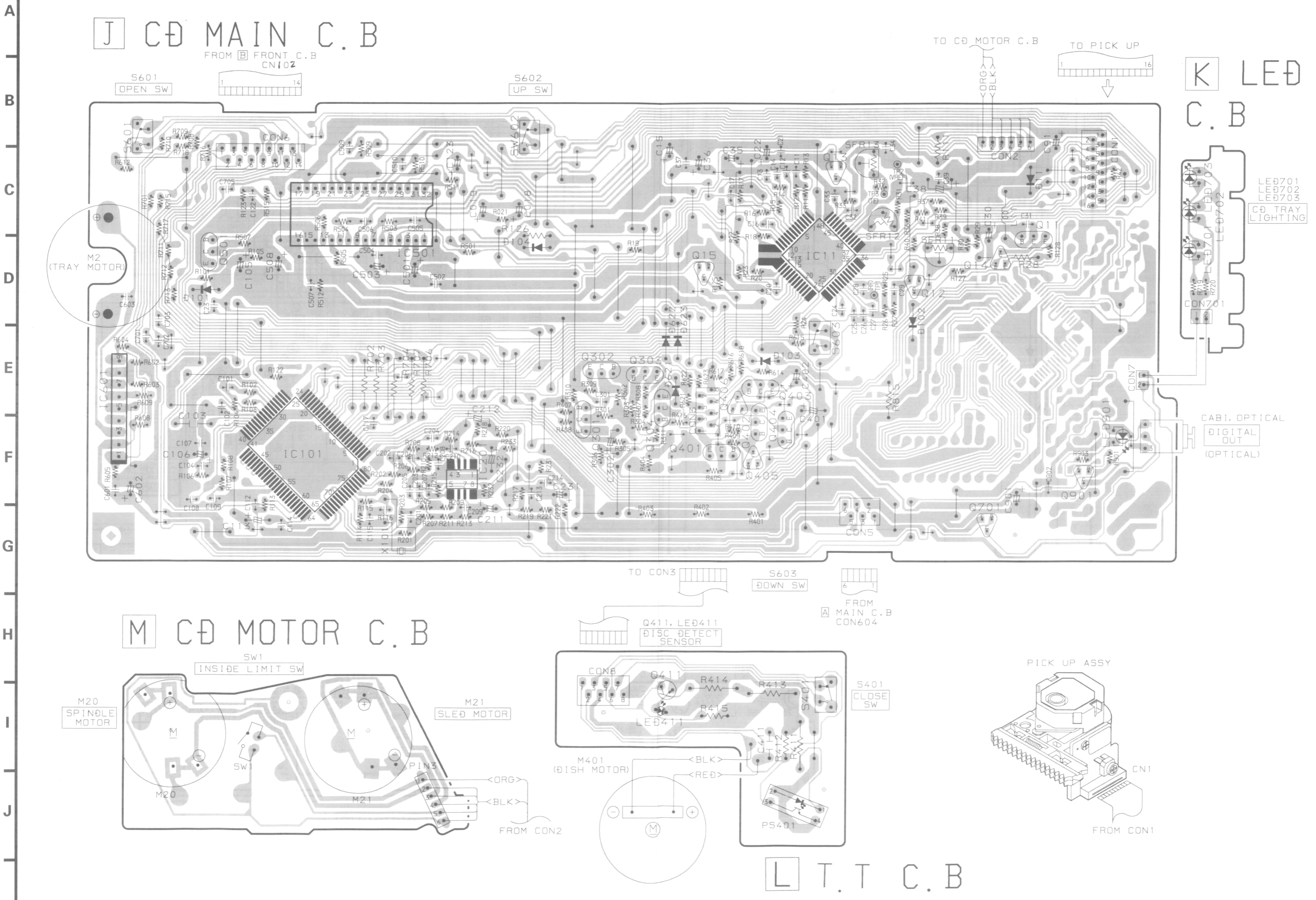


I HEAD-2 C.B

RP HEAD (DECK-2)



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



J CD MAIN C.B

FROM FRONT C.B
CN102

S601
OPEN SW

S602
UP SW

TO CD MOTOR C.B

TO PICK UP

K LED C.B

C.B

LED701
LED702
LED703
CD TRAY LIGHTING

LED701
LED702
LED703

CON201

CABI. OPTICAL
DIGITAL OUT
(OPTICAL)

M CD MOTOR C.B

SW1
INSIDE LIMIT SW

M20
SPINDLE MOTOR

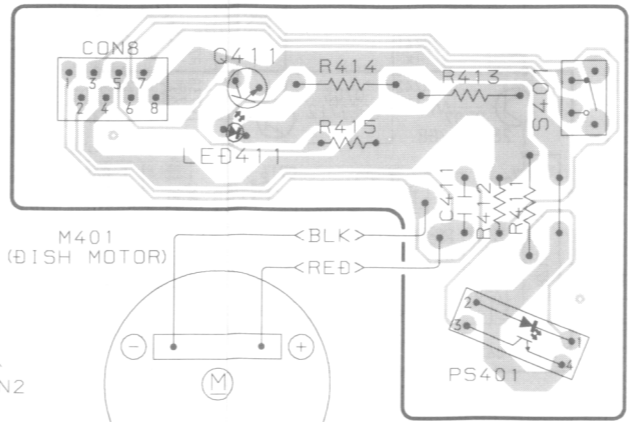
M21
SLED MOTOR

TO CON3

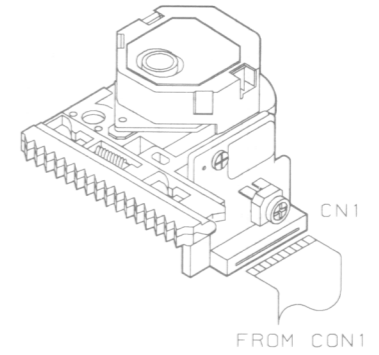
S603
DOWN SW

FROM MAIN C.B
CON604

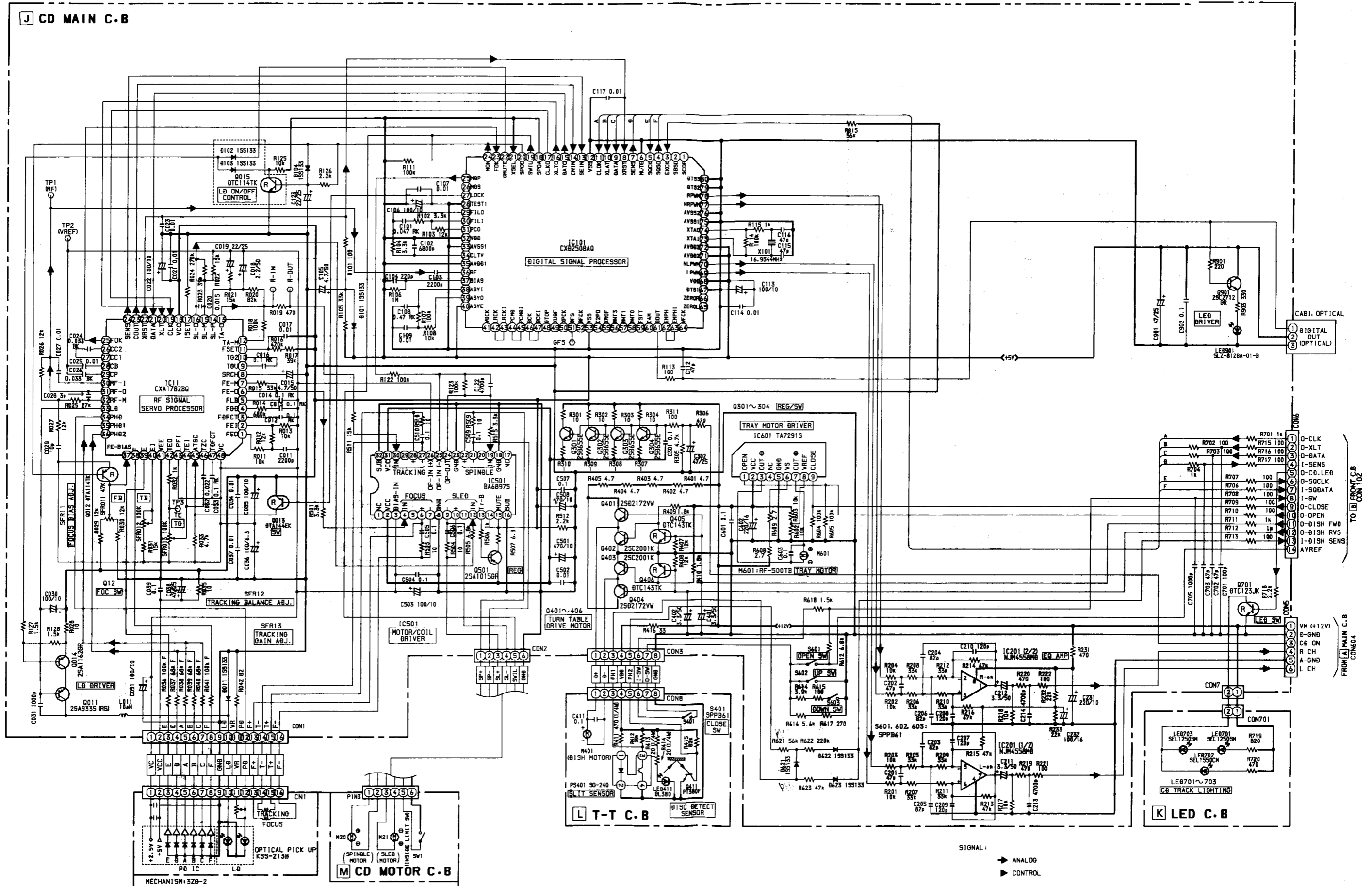
Q411, LED411
DISC DETECT SENSOR

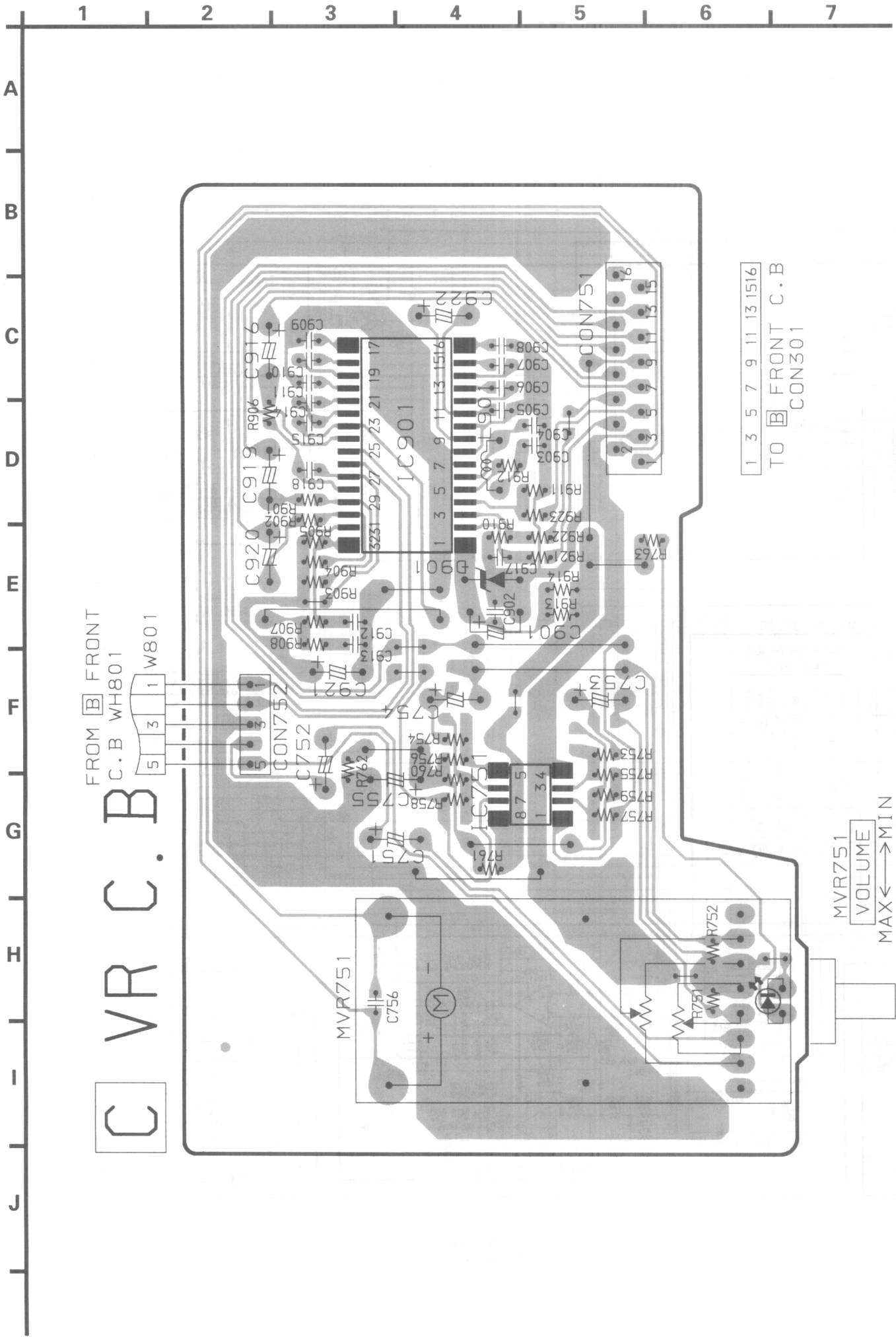


PICK UP ASSY



L T.T C.B





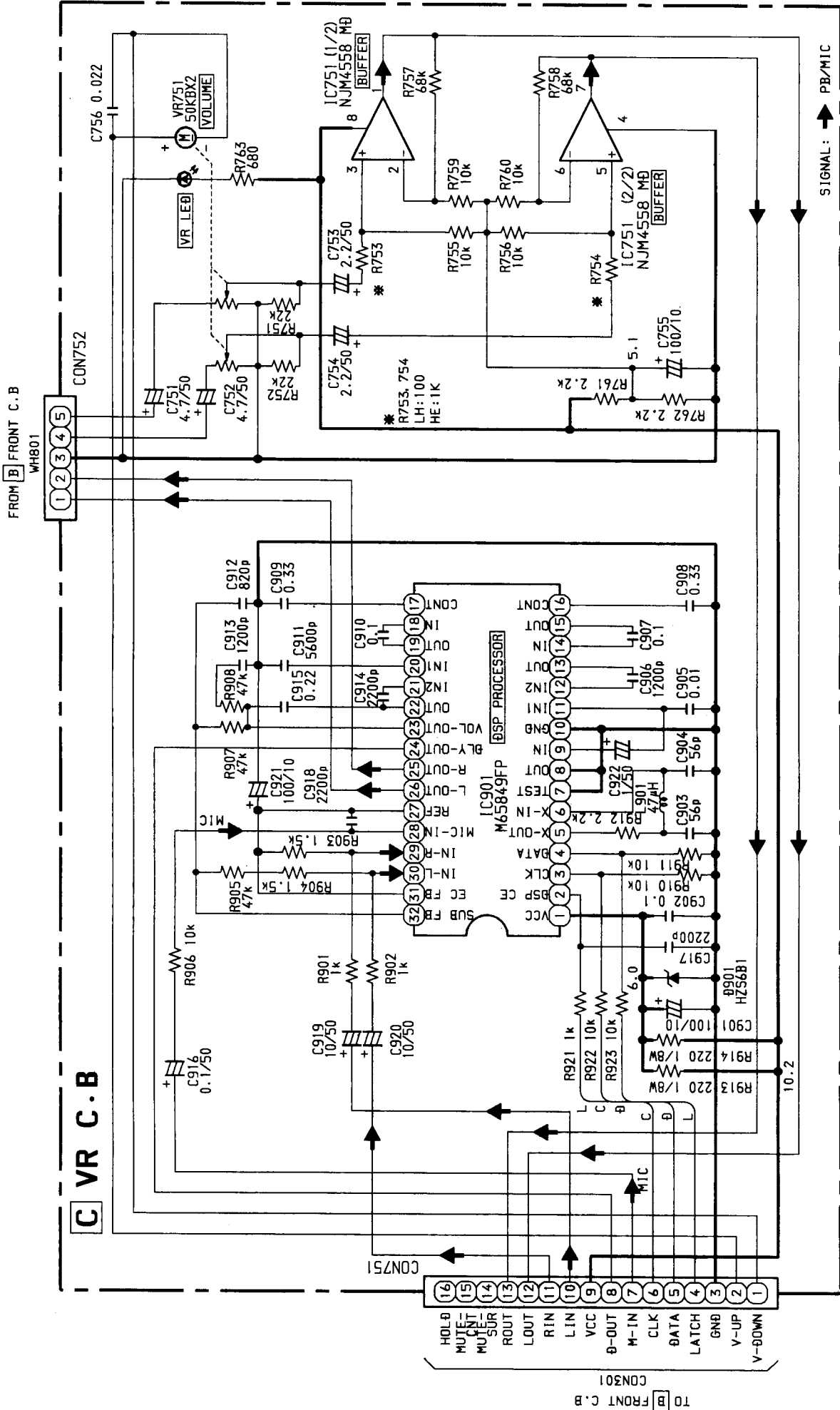
FROM FRONT C.B. WH801

VR C.B.

TO FRONT C.B. CON301

MVR751 VOLUME MAX ← → MIN

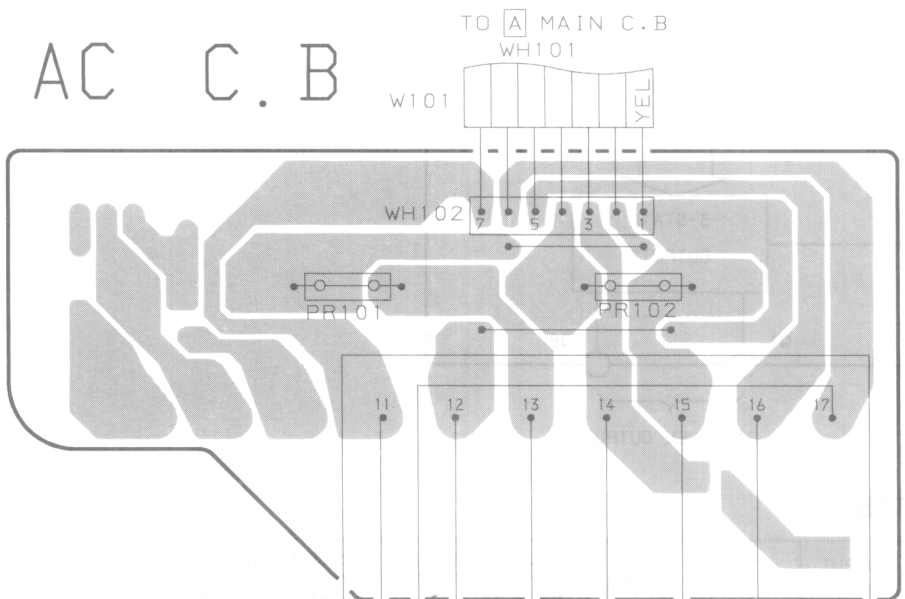
SCHEMATIC DIAGRAM - 4 (VR)



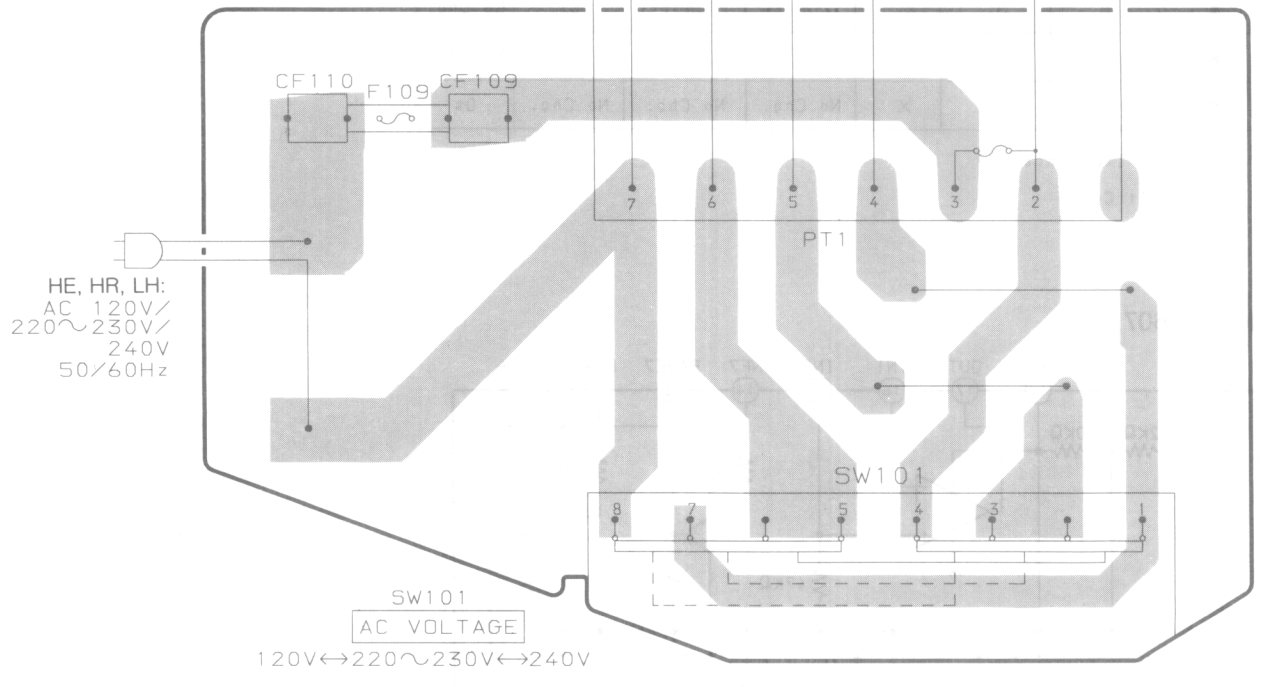
1 2 3 4 5 6 7

A
B
C
D
E
F
G
H
I
J

E AC C.B

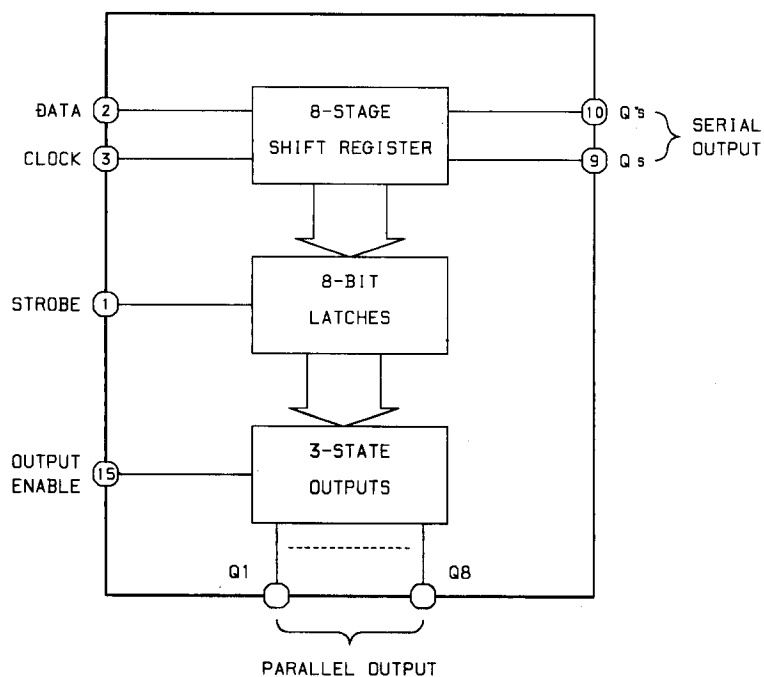


F PT C.B



IC BLOCK DIAGRAM - 2

IC, BU4094BF



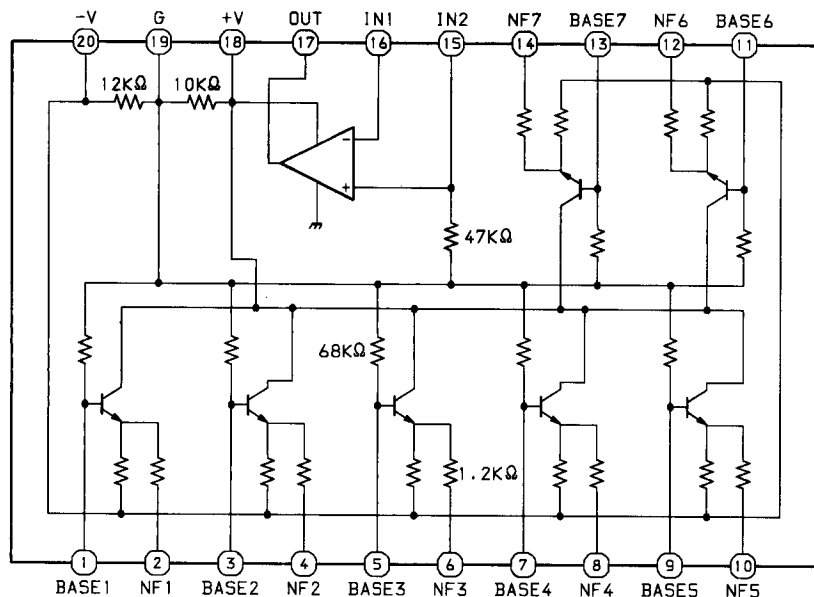
TRUTH TABLE

CLOCK	OUTPUT ENABLE	STROBE	DATA	PARALLEL OUTPUTS		SERIAL OUTPUTS	
				Q1	Qn	Qs	Q's
	L	X	X	Z	Z	Q7	NO Chg.
	L	X	X	Z	Z	No Chg.	Qs
	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.	Qs

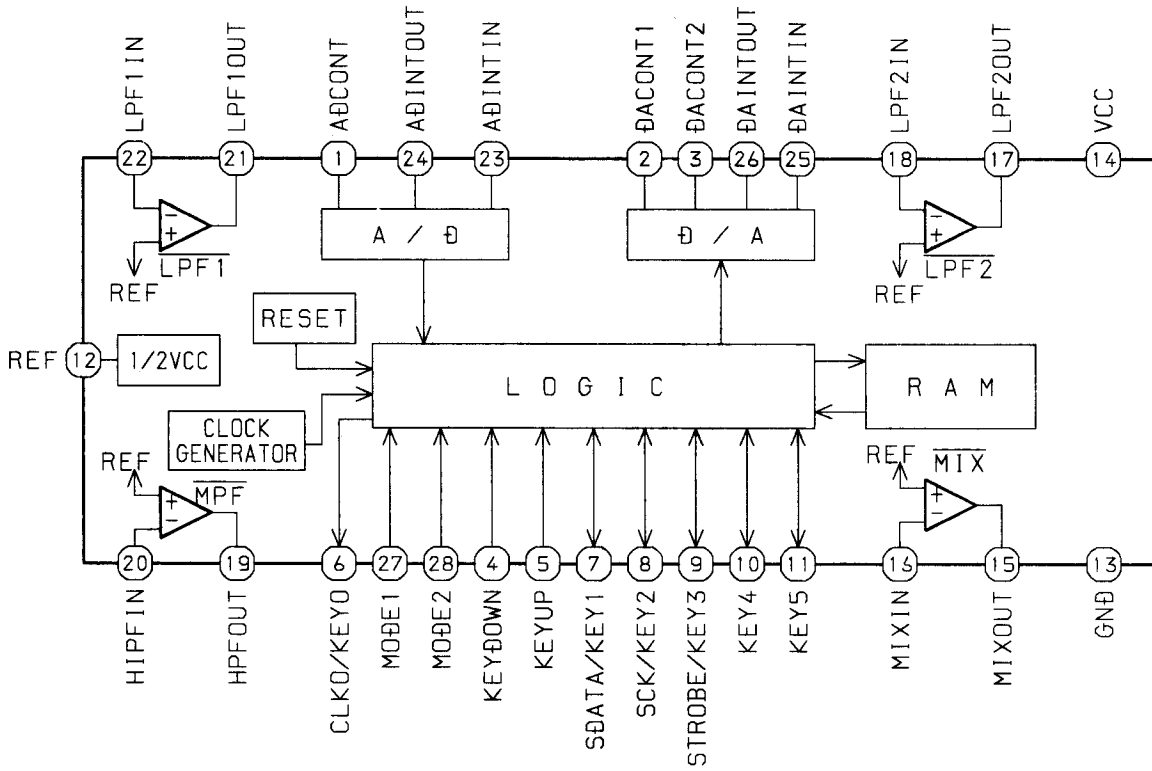
Z=High Impedance

X=Don't Care

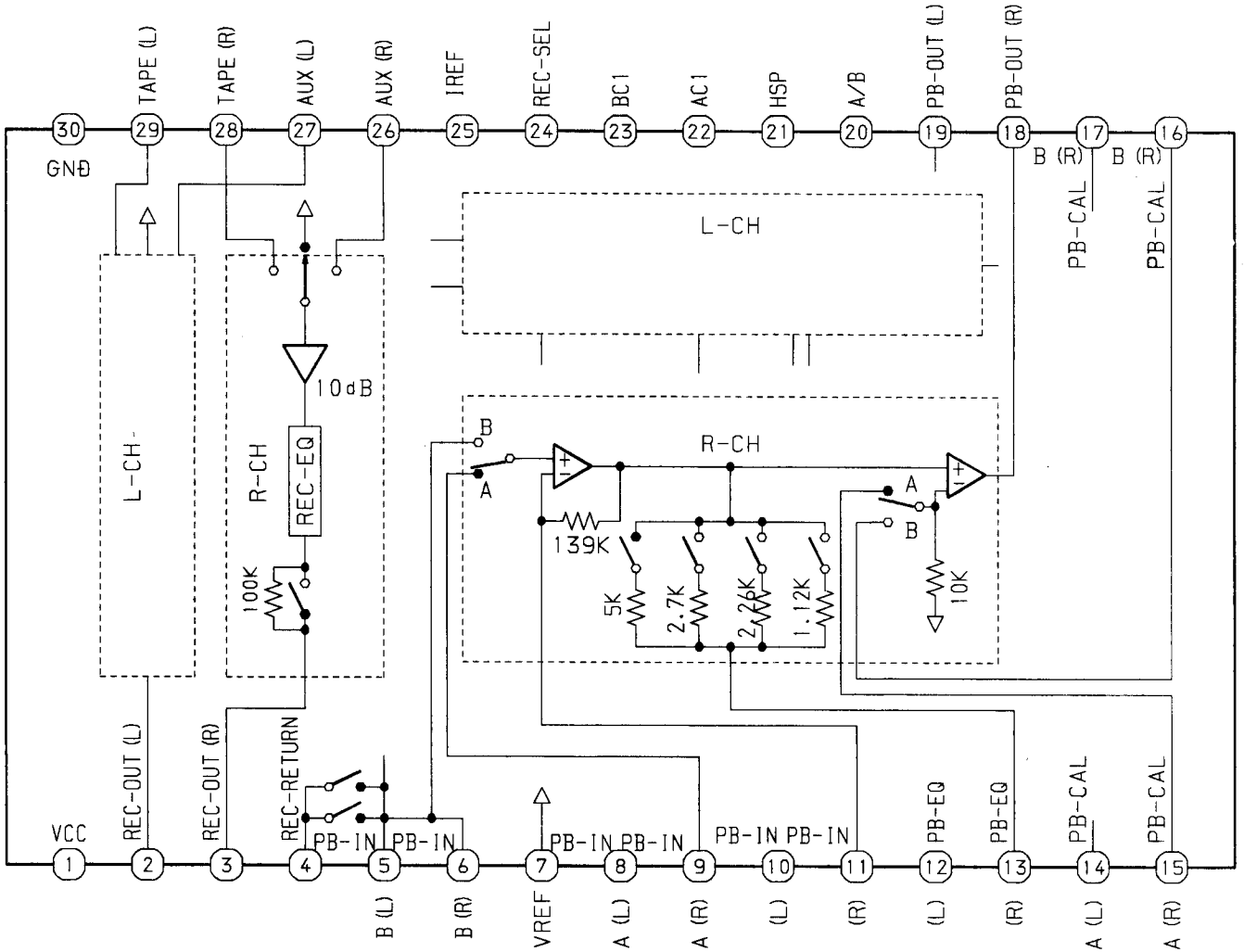
IC, LA3607



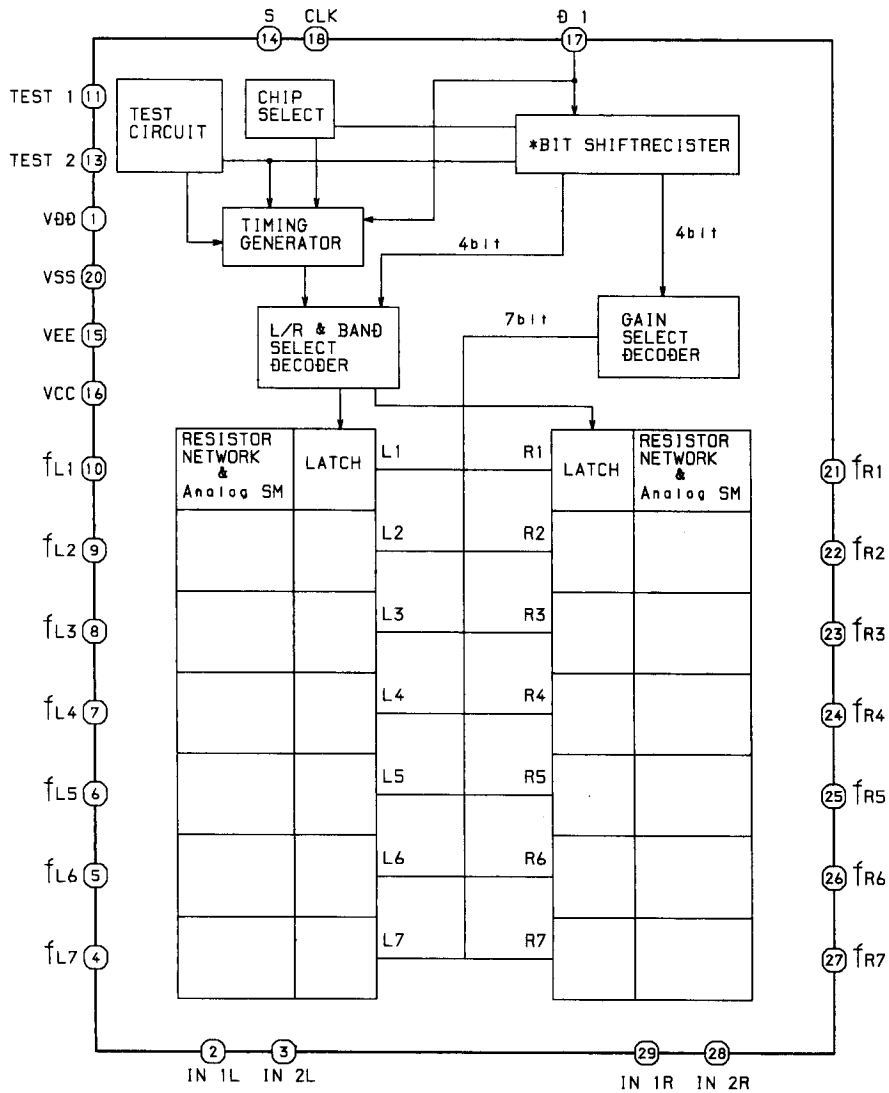
IC, M65847FP



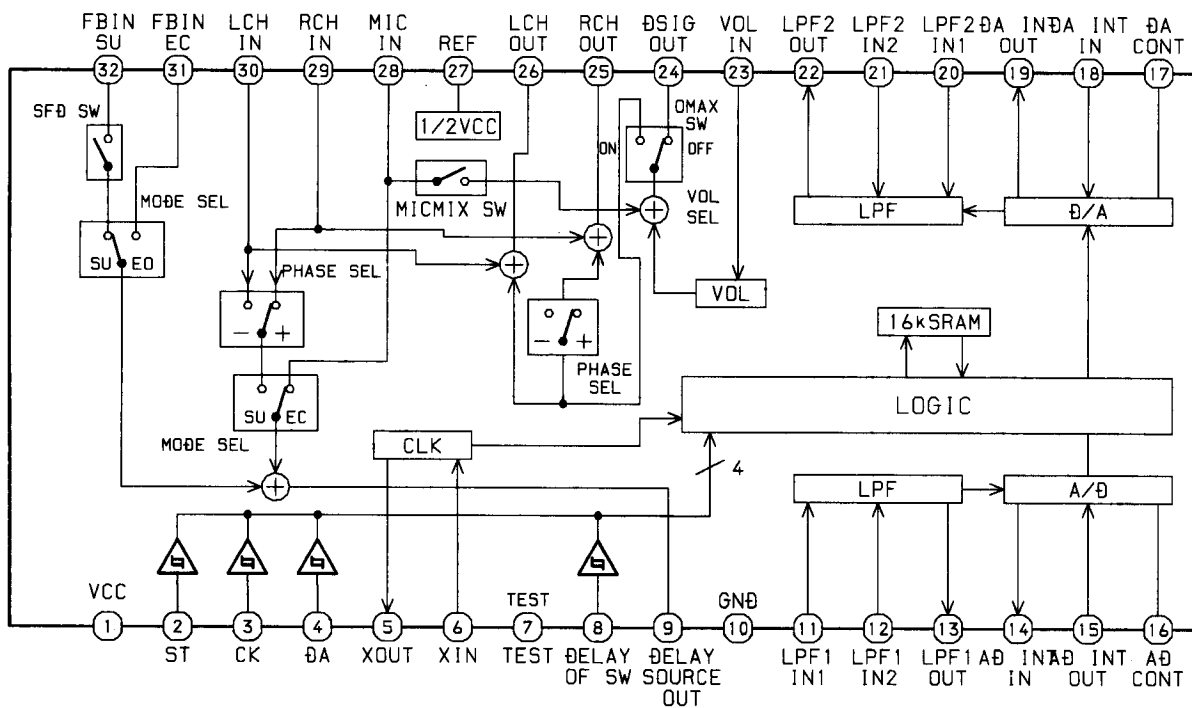
IC, HA12185NT



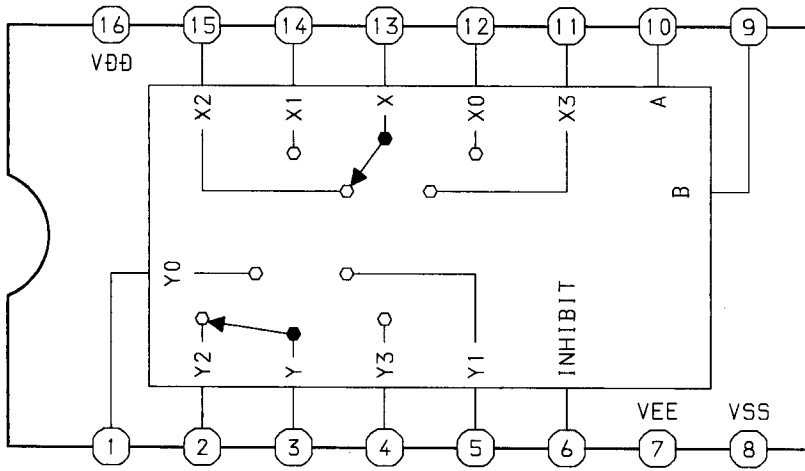
IC, NJU7305M



IC, M65849FP



IC, TC4052BP

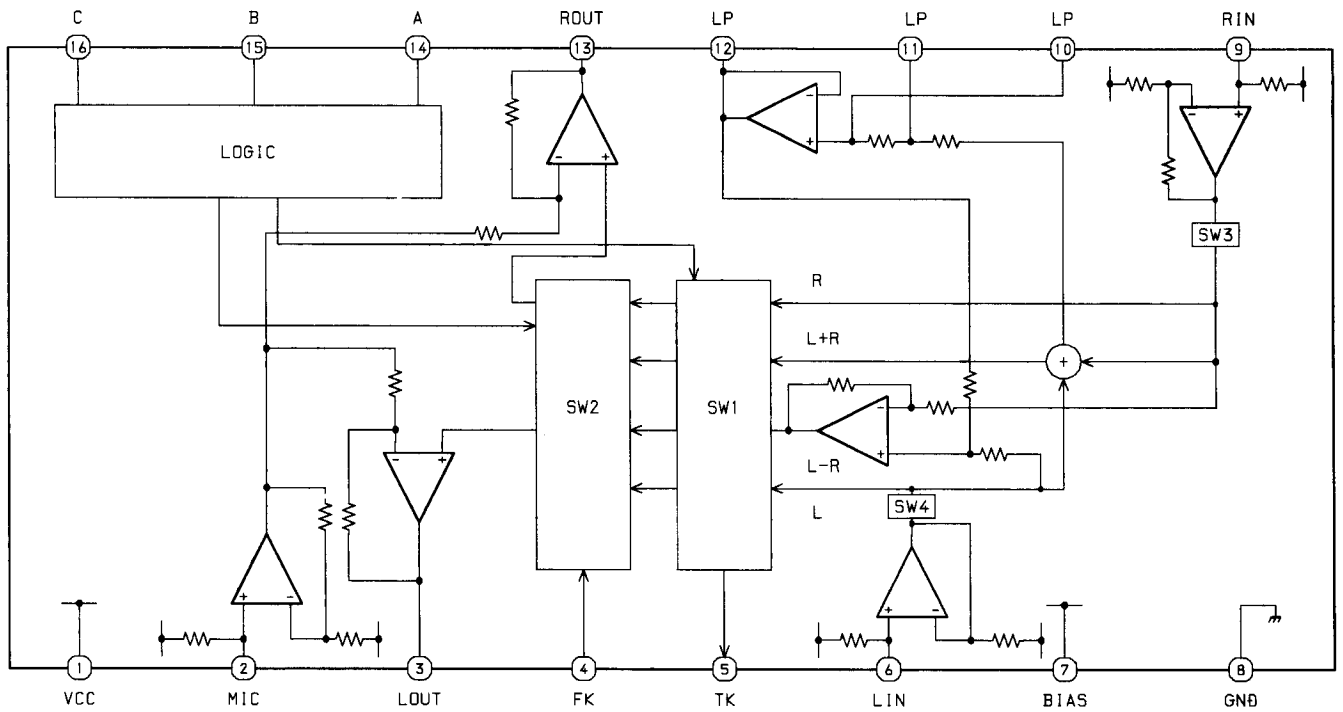


TRUTH TABLE

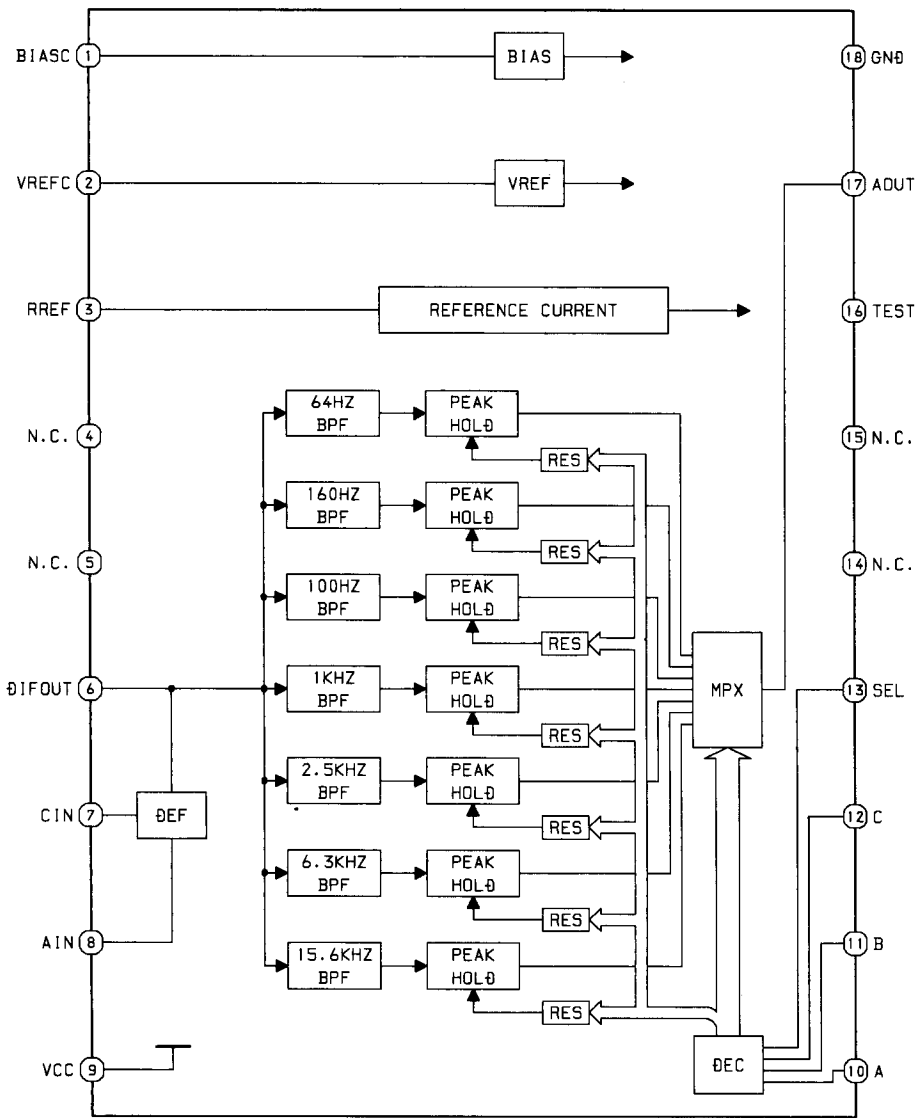
CONTROL INPUTS			ON SWITCH	
INHIBIT	B	A	Y0	X0
L	L	L	Y0	X0
L	L	H	Y1	X1
L	H	L	Y2	X2
L	H	H	Y3	X3
H	X	X	—	—

L: LOW LEVEL
 H: HIGH LEVEL
 X: IRRELEVANT

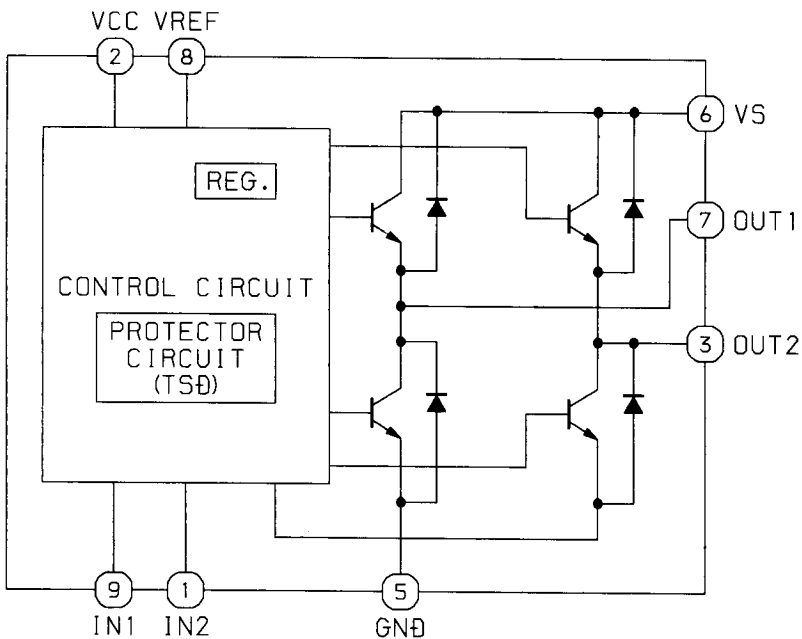
IC, BA3836



IC, BA3834S



IC, TA7291S



TRUTH TABLE

INPUT		OUTPUT		MODE
IN1	IN2	OUT1	OUT2	
0	0	∞	∞	STOP
1	0	H	L	CW/CCW
0	1	L	H	CCW/CW
1	1	L	L	BRAKE

∞ : HIGH IMPEDANCE
 INPUT IS "H" ACITVE

IC DESCRIPTION

IC, LC86640W-5790

Pin No.	Pin Name	I/O	Description
1	O-DI-R	O	CD turntable control output.
2	O-DI-F	O	
3	O-M-STB	O	Main shift register , DSP IC and G-EQ IC serial control control.
4	O-M-DATA	O	
5	O-M-CLK	O	
6	$\overline{\text{O-POWER}}$	O	System power control output.
7	$\overline{\text{RESET}}$	I	System reset input.
8	$\overline{\text{I-HOLD}}$	I	Power failure detected input.
9	$\overline{\text{I-TUNE/IFC}}$	I	Tuned detected input and serial data input of IF count.
10	VSS1	-	GND.
11,12	CF1, 2	I/O	5.76 MHz μ -con clock oscillator .
13	VDD1	-	Power supply input.
14~16	I-KEY1 - 3	I	Key A/D input.
17	I-CD/SW	I	CD tray and pick-up potential detected input.
18	I-CD/DISH	I	CD turntable potential detected input.
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 level A/D input for DSP and vocal fader.
22	I-TM BASE	I	Reference clock input for system clock (8Hz).
23	$\overline{\text{I-CD-SENCE}}$ $\overline{\text{/I-STEREO}}$	I	CD control input and stereo (tuner) detected input.
24	$\overline{\text{I-RMC}}$	I	System remote control signal serial input.
25~36	G12~G1	O	FL grid output G1~G12.
37~40	P23~P20	O	FL segment output P20~P23.
41	VDD2	-	Power supply input.
42	-VP	-	Power supply input for FL display.
43~61	P19~P10,P1~P9	O	Digital output for FL display and digital scan input.
62	O-PLL CE	O	PLL IC chip enable control output.
63	O-OPEN	O	CD tray open / close control output.
64	O-CLOSE	O	
65	O-G-CLK	O	G-EQ IC clock output.
66	$\overline{\text{O-SOL1}}$	O	DECK plunger control output.
67	$\overline{\text{O-SOL2}}$	O	
68	$\overline{\text{O-MOTOR}}$	O	DECK motor control output.
69	$\overline{\text{O-KEY-SCAN}}$	O	Scan output for digital input.
70	O-F/STB	O	Front shift register serial control output.
71	O-F/CLK	O	
72	O-F/DATA	O	
73	VSS2	-	GND.
74	O-CD/DATA	O	CD IC control output.
75	O-CD/XLT	O	

Pin No.	Pin Name	I/O	Description
76	O-CD/CLK	O	CD IC control output.
77	O-DSP-CE	O	DSP IC chip enable control output.
78	I-CD-SQ DATA	I	CD IC control input / output.
79	O-CD SQ CLK	O	
80	O-MUTE	O	System mute control output.

IC, LC72131

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	$\overline{\text{MONO}} / \text{BEAT}$	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, CXD2508AQ

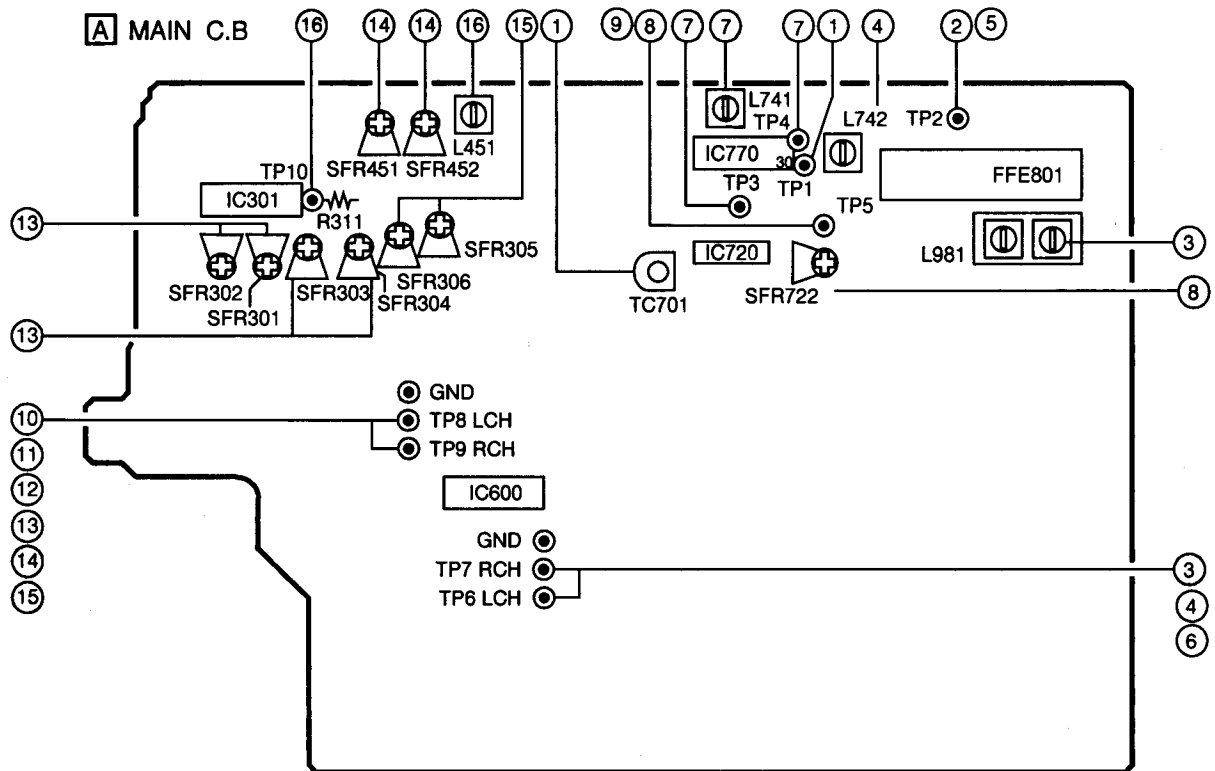
Pin No.	Pin Name	I/O	Description
1	SCOR	O	Outputs high signal when either subcode sync S0 or S1 is detected. (Not used)
2	SBSO	O	SUB P to W serial output. (Not used)
3	EXCK	I	SBSO readout clock input. (Connected to VDD)
4	SQSO	O	SUBQ 80-bit serial output.
5	SQCK	I	SQSO readout clock input.
6	MUTE	I	High to mute. Low to cancel.
7	SENS	O	SENS signal output to main CPU.
8	XRST	I	System reset. Reset when low.
9	DATA	I	Serial data input from main CPU.
10	XLAT	I	Latch input from main CPU. Serial data is latched at the falling edge.
11	CLOK	I	Serial data transfer clock input from main CPU.
12	VSS	–	GND.
13	SEIN	I	Sense input from SSP (CXA1782BQ).
14	CNIN	I	Track jump count signal input.
15	DATO	O	Serial data output to SSP (CXA1782BQ).
16	XLTO	O	Serial data latch output to SSP (CXA1782BQ). Latched at the falling edge.
17	CLKO	O	Serial data transfer clock output to SSP (CXA1782BQ).
18	SPOA	I	Test pin. Normally connected to VDD.
19	SWIL	I	Microcomputer extended interface (input B). (Connected to SW1)
20	SPOC	I	Microcomputer extended interface (input C). (Connected to VDD)
21	XSEL	I	Microcomputer extended interface (input D). (Connected to VDD)
22	GMUTE	O	Microcomputer extended interface (output).
23	FOK	I	Focus OK input. Used for SENS output and the servo auto sequencer.
24	MON	O	Spindle motor ON/OFF control output.
25	MDP	O	Spindle motor servo control output.
26	MDS	O	Spindle motor servo control output. (Not used)
27	LOCK	O	GFS is sampled at 460 Hz. When GFS is high, this pin outputs a high signal. If GFS is low eight consecutive samples, this pin outputs low.
28	TEST1	I	TEST pin. Normally connected to GND.
29	FILO	O	Master PLL (slave = digital PLL) filter output.
30	FILI	I	Master PLL filter input.
31	PCO	O	Master PLL charge pump output.
32	VDD	–	Digital power supply (+5V).
33	AVSS1	–	GND.
34	CLTV	I	Master PLL VCO control voltage input.
35	AVDD1	–	Analog power supply (+5V).
36	RF	I	EFM signal input.
37	BIAS	I	Constant current input to asymmetry correction circuit.
38	ASYI	I	Comparator voltage input to asymmetry correction circuit .
39	ASYO	O	EFM full swing output (Low = VSS, High = VDD).
40	ASYE	I	L: asymmetry correction OFF. H: asymmetry correction ON. (Connected to VDD)

Pin No.	Pin Name	I/O	Description
41	WDCK	O	D/A interface for 48-bit slot. Word clock (2FS). (Not used)
42	LRCK	O	D/A interface for 48-bit slot. LR clock (FS).
43	LRCKI	I	LR clock input for DAC. (48-bit slot)
44	PCMD	O	D/A interface. Serial data (two's complement, MSB first).
45	PCMDI	I	Audio data input for DAC. (48-bit slot)
46	BCK	O	D/A interface. Bit clock.
47	BCKI	I	Bit clock input for DAC. (48-bit slot)
48	GTOP	O	GTOP output. (Not used)
49	XUGF	O	XUGF output. (Not used)
50	XPCK	O	XPLCK output. (Not used)
51	GFS	O	GFS output. (Not used)
52	RFCK	O	RFCK output. (Not used)
53	VSS	-	GND.
54	C2PO	O	C2PO output. (Not used)
55	XROF	O	XRAOF output. (Not used)
56	MNT3	O	MNT3 output. (Not used)
57	MNT1	O	MNT1 output. (Not used)
58	MNT0	O	MNT0 output. (Not used)
59	FSTT	O	2/3 frequency divider output for Pins 73 and 74. (Not used)
60	C4M	O	4.2336 MHz output. (Not used)
61	DOUT	O	Digital Out connector output signal.
62	EMPH	O	Outputs high signal when the playback disc has emphasis, low signal when no emphasis.
63	EMPHI	I	DAC de-emphasis ON/OFF. High: on; low: off.
64	WFCK	O	WFCK (Write Frame Clock) output. (Not used)
65	ZEROL	O	No sound data detection output. High (Lch) when no sound data is detected. (Not used)
66	ZEROR	O	No sound data detection output. High (Rch) when no sound data is detected. (Not used)
67	DTSI	I	Test pin for DAC; normally low. (Connected to GND)
68	VDD	-	Digital power supply. (+5V).
69	LPWM	O	Left channel PWM output. (Forward phase)
70	NLPWM	O	Left channel PWM output. (Reverse phase)
71	AVDD2	-	Power supply for left channel PWM driver (+5V).
72	AVDD3	-	Power supply for crystal (+5V).
73	XTAI	I	33.8688 MHz crystal oscillator circuit input.
74	XTAO	O	33.8688 MHz crystal oscillator circuit output.
75	AVSS1	-	GND for crystal.
76	AVSS2	-	GND for PWM driver.
77	NRPWM	O	Right channel PWM output. (Reverse phase)
78	RPWM	O	Right channel PWM output. (Forward phase)
79	DTS2	I	DAC test pin 2; normally low. (Connected to GND)
80	DTS3	I	DAC test pin 3; normally low. (Connected to GND)

Pin No.	Pin Name	I/O	Description
1	FEO	O	Focus error amplifier output pin. This pin is connected to the FZC comparator input internally.
2	FEI	I	Focus error input pin.
3	FDFCT	I	Capacitor connection pin for the time constant used when there is defect.
4	FGD	I	Corrects the focus servo high frequency gain.
5	FLB	I	This is a pin where the time constant is externally connected to raise the low frequency gain of the focus servo.
6	FEO	O	Focus drive output.
7	FEM	I	Focus amplifier inverted input pin.
8	SRCH	I	This is a pin where the time constant is externally connected to generate the focus search waveform.
9	TGU	I	This is a pin where the selection time constant is externally connected to set the tracking servo the high frequency gain.
10	TG2	I	This is a pin where the selection time constant is externally connected to set the tracking high frequency gain.
11	FSET	I	Pin for setting peak of the phase compensator of the focus tracking.
12	TAM	I	Tracking amplifier inverted input pin.
13	TAO	O	Tracking drive output.
14	SLP	I	Sled amplifier non-inverted input pin.
15	SLM	I	Sled amplifier inverted input pin.
16	SLO	O	Sled drive output.
17	ISET	I	The current which determines height of the focus search, track jump and sled kick is input.
18	VCC	-	Power supply (+5V).
19	CLK	I	Serial data transfer clock input from main CPU.
20	XLT	I	Latch input from main CPU.
21	DATA	I	Serial data input from main CPU.
22	XRST	I	Reset input pin. Reset at low.
23	COUNT	O	Signal output to count the number of tracks.
24	SENS	O	FZC, DFCT, TZC, Gain or BAL is output depending on the command from main CPU.
25	FOK	O	Output pin of the focus OK comparator.
26	CC2	O	Input pin where the DEFECT bottom hold output is capacitance coupled.
27	CC1	I	DEFECT bottom hold output pin.
28	CB	I	This is a pin where the DEFECT bottom hold capacitor is connected.
29	CP	I	This is a pin where the MIRR hold capacitor is connected and MIRR comparator non-inverted signal is input.
30	RFI	I	Input pin where the RF summing amplifier output is capacitance coupled.
31	RFO	O	RF summing amplifier output pin.
32	RFM	I	RF summing amplifier inverted input pin. Gain of RF amplifier is determined by the resistor connected between RFO and this pin.

Pin No.	Pin Name	I/O	Description
33	LD	O	APC amplifier output pin.
34	PHD	I	APC amplifier input pin.
35 ~ 36	PHD 1 ~ 2	I	RF I-V amplifier inverted input pins. These pins are connected to the A+C and B+D pins of the optical pickup.
37	FE-BIAS	I	Bias adjustment pin of the non-inverted side of the focus error amplifier.
38 ~ 39	F ~ E	I	F and E I-V amplifier non-inverted input pins. These pins are connected to the F and E of the optical pickup.
40	EI	-	Gain adjustment pin of the I-V amplifier E.
41	VEE	-	GND connection pin.
42	TEO	O	Tracking error amplifier output pin. E-F signal is output.
43	LPFI	I	BAL adjustment comparator input pin.
44	TEI	I	Tracking error input pin.
45	ATSC	I	Window comparator input pin for detecting ATSC.
45	TZC	I	Tracking zero-cross comparator input pin.
47	TDFCT	I	Capacitor connection pin for the time constant used when there is defect.
48	VC	O	DC voltage output pin of VREF. (VDD/2)

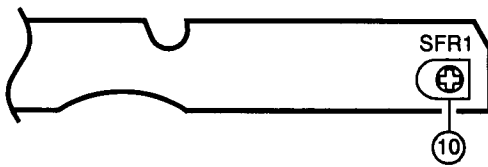
ADJUSTMENT <TUNER / DECK>



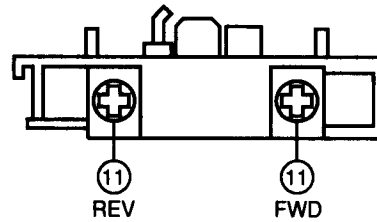
< TUNER SECTION >

1. Clock Frequency Adjustment
 Settings : • Test point : TP1
 • Adjustment location : TC701
 Method : Set to MW 1710kHz (LH), 1602kHz (HE,HR) and adjust TC701 so that the test point becomes 2160kHz \pm 0.01kHz (LH), 2052kHz \pm 0.01kHz (HE,HR).
2. MW VT Check
 Settings : • Test point : TP2 (VT)
 Method : Set to MW 1710kHz (LH), 1602kHz (HE,HR) and check that the test point is 7.0V \pm 1.0V (LH), 6.8V \pm 1.0V (HE,HR).
3. MW Tracking Adjustment
 Settings : • Test point : TP6, TP7
 • Adjustment location : L981
 Method : The level at 999kHz (HE,HR), 1000kHz (LH) is adjusted to MAX by L981.
4. MW IF Adjustment
 Settings : • Test point : TP6, TP7
 • Adjustment location : L742
 Method : The level at 999kHz (HE,HR), 1000kHz (LH) is adjusted to MAX by L742.
5. 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 1.0V (87.5MHz) and less than 8.0V (108.0MHz).
6. FM Tracking Check
 Settings : • Test point : TP6, TP7
 Method : Set to FM 98.0MHz and check that the test point is 2dB \pm 6dB.
7. 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 0V \pm 0.04V. Next, check that the distortion is less than 1.3%.
8. 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.
9. Auto Stop Level Check
 MW
 Settings : • Test point : TP5
 • Input level : 50dB
 Method : Set to MW 1000kHz(LH), MW 999kHz (HE,HR) and check that the test point is 40 ~ 65 dB.
 FM
 Settings : • Test point : TP5
 • Input level : 20dB
 Method : Set to FM 98.0MHz and check that the test point is 20 dB \pm 5 dB.

G DECK C.B



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



< DECK SECTION >

10. 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 $3000\text{Hz} \pm 5\text{Hz}$.

11. Head Azimuth Adjustment (DECK 1, DECK 2)

- 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 with respect to that of the 315Hz signal is $0 \pm 2\text{dB}$.

13. 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 $300\text{mV} \pm 10\text{mV}$.

14. 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 17mV. Record and play back the 1kHz and 10kHz signals and adjust SFRs so that the output of the 10kHz signals becomes $0\text{dB} \pm 0.5\text{dB}$ with respect to that of the 1kHz signal.

15. REC/PB Sensitivity Adjustment

- Settings : • Test tape : TTA-602
• Test point : TP8, TP9
• Input signal : 1kHz (LINE IN)
• Adjustment location : SFR305 (Lch)
SFR306 (Rch)

Method : Apply a 1kHz signal and REC mode. Then adjust OSC attenuator so that the output level at the TP8, TP9 becomes 17mV. Record and play back the 1kHz signals and adjust SFRs so that the output is $17\text{mV} \pm 0.5\text{dB}$.

16. Bias OSC Frequency Adjustment (DECK II)

- Settings : • Test tape : TTA-615
• Test point : TP10 (R311)
• Adjustment location : L451

Method : Set to the REC mode. Adjust L451 so that the frequency counter of the test point becomes $85\text{kHz} \pm 1\text{kHz}$.

PRACTICAL SERVICE FIGURE

<TUNER SECTION>

<FM SECTION>

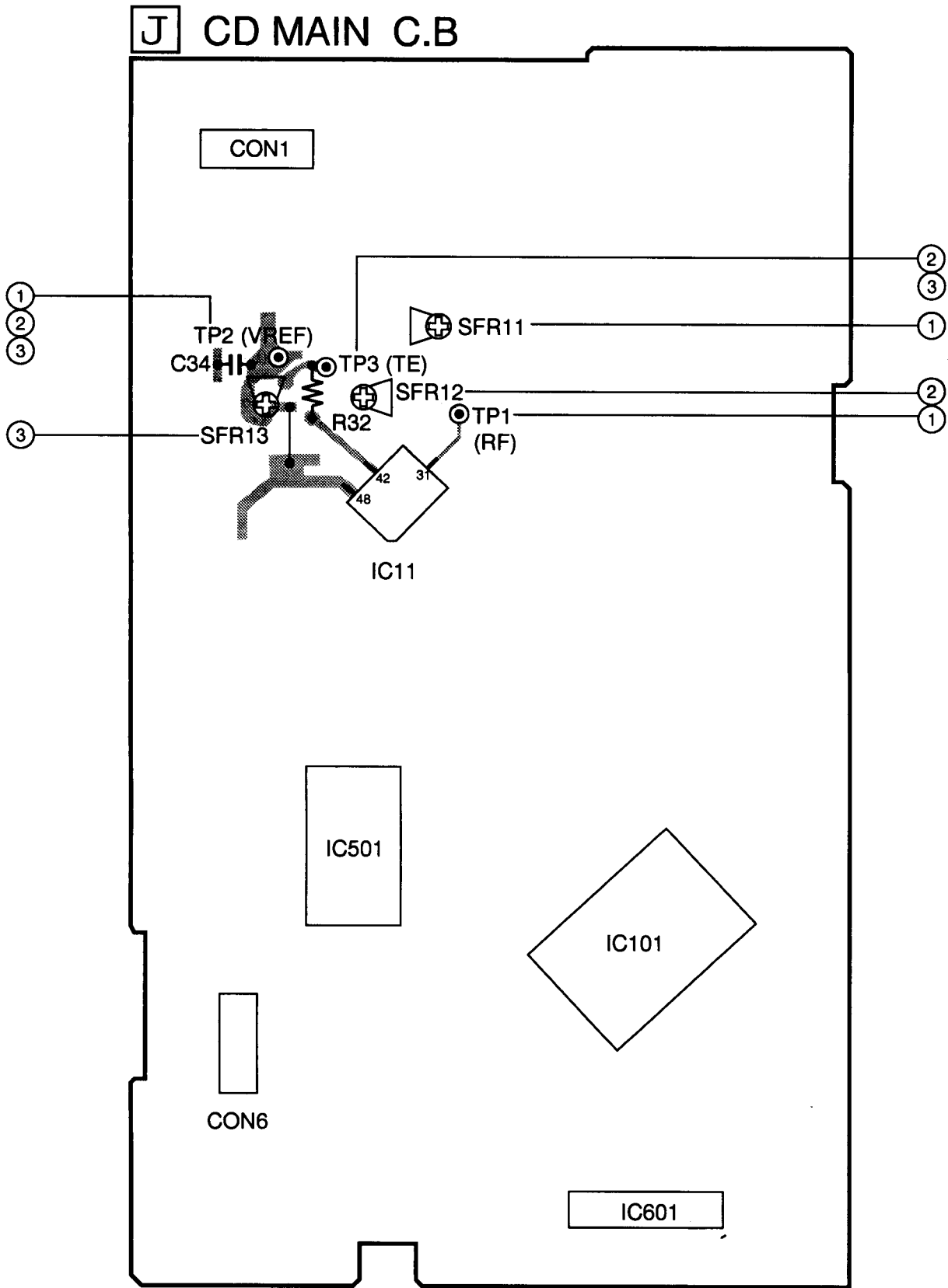
S/N 50dB Quieting sensitivity :
36dB \pm 5dB
(87.5 / 98.0 / 108.0MHz)
Signal to noise ratio : More than 64dB (98.0MHz)
Distortion : Less than 2.0% (98.0MHz)
Stereo separation : More than 25dB (98.0MHz)
Intermediate frequency : 10.7MHz

<MW SECTION>

Sensitivity : 57dB \pm 5dB
(S/N 20 dB) [at 600kHz (LH)]
[at 603kHz (HE,HR)]
53dB \pm 5dB
[at 1000 / 1400kHz (LH)]
[at 999 / 1404kHz (HE,HR)]
Distortion : Less than 1.5%
[at 1000kHz (LH)]
[at 999kHz (HE,HR)]
Intermediate frequency : 450kHz

<DECK SECTION>

Tape speed : 3000Hz \pm 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 : 260mV \pm 1dB (SP OUT 2V)
REC/PB Output level : 150mV \pm 1dB (SP OUT 2V)
Distortion (REC/PB) : Less than 2.0% (NORM, CrO2)
Noise level (PB) : Less than 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

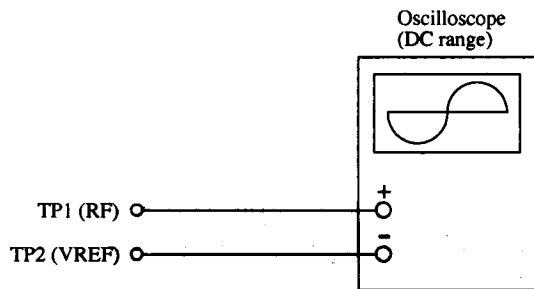


Note :

Connect a probe (10:1) of the oscilloscope or the frequency counter to a test point TP2(VREF).

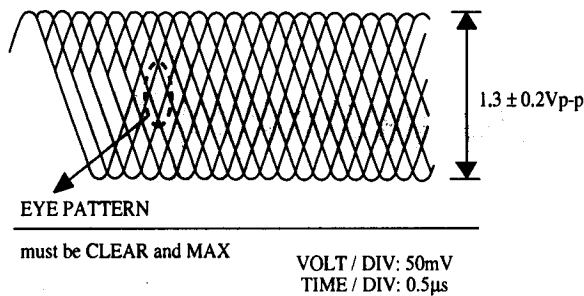
1. Focus Bias Adjustment

Make the focus bias adjustment when replacing and repairing the optical block.

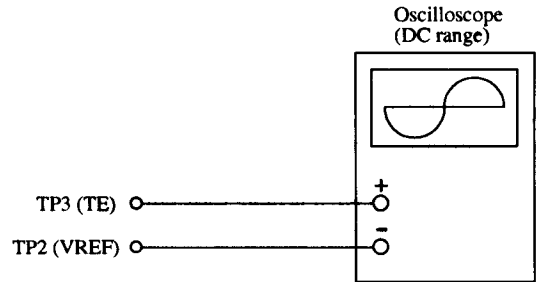


- 1) Connect an oscilloscope to the test points TP1 (RF) and TP2 (VREF).
- 2) Turn on the power switch.
- 3) Insert test disc TCD-782 (YEDS-18) and play back the second composition.
- 4) Adjust SFR11 so that RF signal of the test point TP1 (RF) is MAX and CLEARREST.

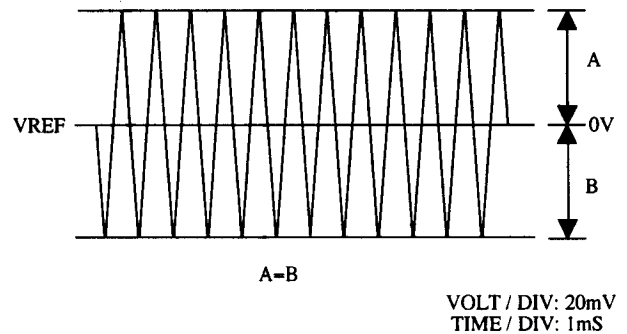
RF signal waveform



2. Tracking Balance Adjustment

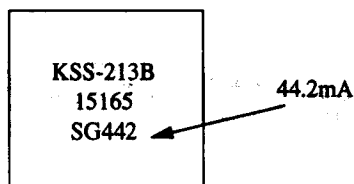


- 1) Connect an oscilloscope to the test points TP3 (TE) and TP2 (VREF).
- 2) Active the CD test mode.
- 3) Insert test disc TCD-782 (YEDS-18) and set the traverse mode (No.4) of CD test mode.
- 4) Adjust SFR12 so that the waveform on the oscilloscope is vertically symmetrical as shown in the figure below.
- 5) After the adjustment is completed, remove the connected lead wires from the terminals.



Note:

The current of the laser signal can be checked with the voltages on both sides of R23 (10Ω). The difference for the specified value shown on the level must be within ± 6.0mA.



$$\text{Laser current } I_{op} = \frac{\text{Voltage across R23}}{10\Omega}$$

3. Tracking Gain Adjustment

A servo analyzer is necessary in order to perform this adjustment exactly. However, this gain has a margin, so even if it is slightly off, there is no problem. Focus/tracking gain determines the pick-up follow-up (vertical and horizontal) relative to mechanical noise and mechanical shock when 2-axis device operates. However, as these gains are reciprocal, the adjustment is performed at the point where both gains are satisfied.

- When gain is raised, the noise increases when the 2-axis device operates increases.
- When gain is lowered, it is more susceptible to mechanical shock and skipping occurs more easily.

When the gain adjustment is not satisfied, the symptoms below appear.

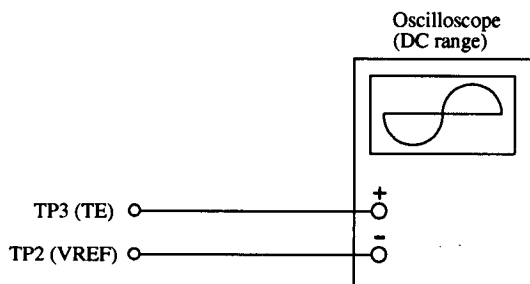
Symptoms \ Gain	(Focus)	Tracking
• The time until music starts becomes longer for STOP → ▶PLAY or automatic selection (◀◀, ▶▶ buttons pressed.) (Normally takes about 2 seconds.)	low	low or high
• Music does not start and disc continues to rotate for STOP → ▶PLAY or automatic selection (◀◀, ▶▶ buttons pressed.)	—	low
• Disc stops to rotate shortly after STOP → ▶PLAY.	low or high	—
• Sound is interrupted during PLAY. Or time counter display stops.	—	low
• More noises during the 2-axis device operation.	high	high

The following is simple adjustment method.

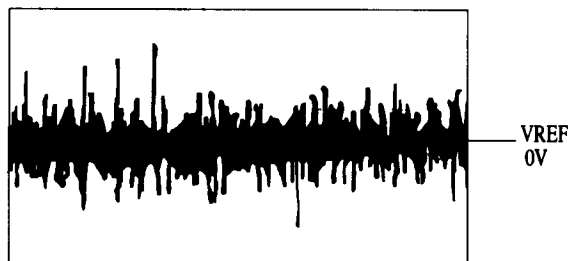
– Simple adjustment –

Note: Since exact adjustment cannot be performed, remember the positions of the controls before performing the adjustment. If the positions after the simple adjustment are only a little different, return the controls to the original position.

Procedure:



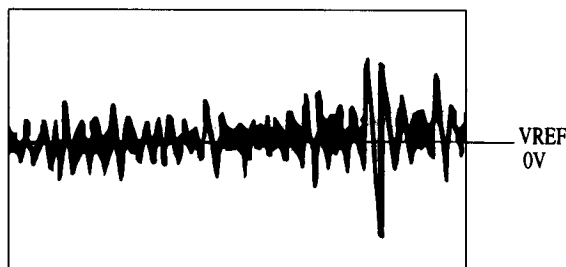
- 1) Keep the set horizontal. (If the set is not kept horizontally, this adjustment cannot be performed due to the gravity against the 2-axis device.)
- 2) Insert test disc TCD-782 (YEDS-18) and play back the second composition.
- 3) Connect an oscilloscope to TP2 (VREF) and TP3(TE).
- 4) Adjust SFR13 so that the waveform appears as shown in the figure below. (tracking gain adjustment)



VOLT/DIV: 50 mV
TIME/DIV: 1 mS

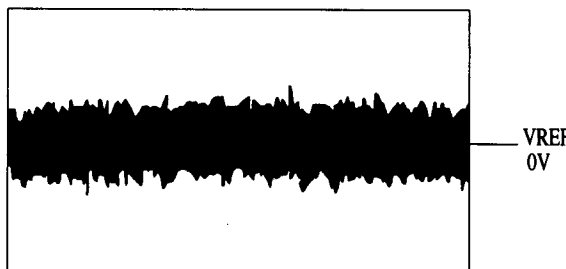
- Incorrect example

Low tracking gain
(The fundamental wave appears as compared with the waveform adjusted)



VOLT/DIV: 50 mV
TIME/DIV: 1 mS

High tracking gain
(The frequency of the fundamental wave is higher than in low gain)

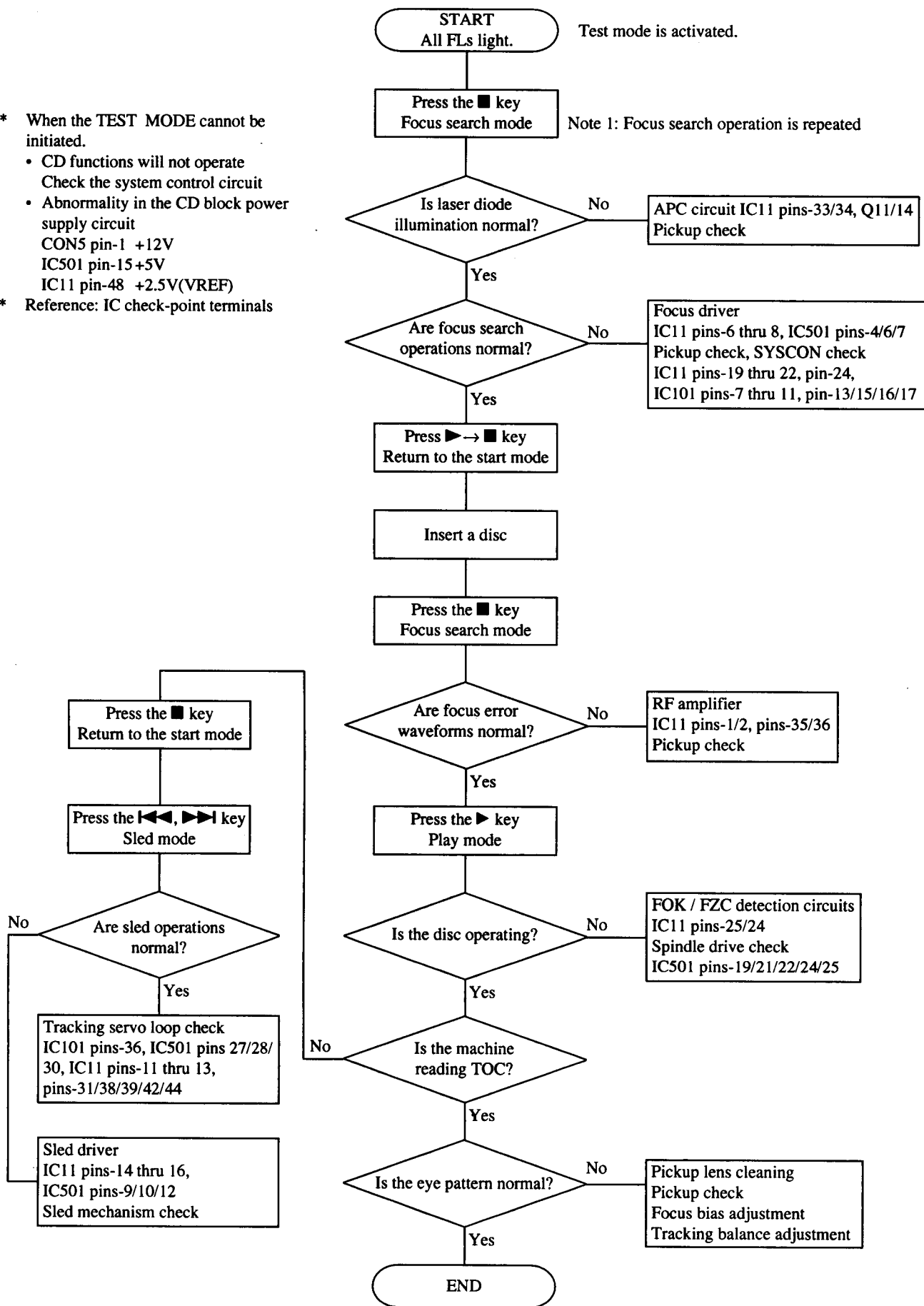


VOLT/DIV: 50 mV
TIME/DIV: 1 mS

CD TROUBLE-SHOOTING

Flow Chart

- * When the TEST MODE cannot be initiated.
 - CD functions will not operate
 - Check the system control circuit
 - Abnormality in the CD block power supply circuit
 - CON5 pin-1 +12V
 - IC501 pin-15 +5V
 - IC11 pin-48 +2.5V(VREF)
- * Reference: IC check-point terminals



TEST MODE

1. How to Activate CD Test Mode

- 1) Insert the AC plug while pressing the function CD button.
All FL display tubes will light up, and the test mode will be activated.

2. How to cancel CD Test Mode

Either one of the following operations will cancel the CD test mode.

- Press the function button (except CD button).
- Press the power switch button. • Disconnect the AC plug.

3. CD Test Mode Functions

When test mode is activated, the following mode functions from No. 1 to No. 5 can be used by pressing the operation keys.

Mode / No.	Operation	FL display	Operation	Contents
Start mode No. 1	Test mode activation	All FL light up	• Active the test mode. (CD block power supply ON)	All FL displays light up
Search mode No. 2	■ key		• Laser diode illuminated under normal circumstances • Continual focus search * NOTE 1 (The pickup lens repeats the full-swing up-down motion.) * Avoid continual searches that last for more than 10 minutes.	• Laser current measurement (Across R28 resistor) FOCUS SERVO • Check focus search waveform • Check focus error waveform * FOK / FZC are not monitored in the search mode.
Play mode No. 3	◀▶ key		• Normal playback • Focus search is continued if TOC cannot be read * NOTE 1	FOCUS SERVO / TRACKING SERVO CLV SERVO / SLED SERVO Check FOK / FZC
Traverse mode No. 4	key		• During normal disc playback Press once; tracking servo OFF Press twice; tracking servo ON * NOTE 2	TRACKING SERVO ON / OFF Tracking balance (traverse) adjustment TP2 (VREF), TP3 (TE)
Sled mode No. 5	◀◀ key ▶▶ key	All FL light up	• Pickup moves to the outermost track • Pickup moves to the innermost track * NOTE 3 (During playback, machine operates normally.)	SLED SERVO Check SLED mechanism operation

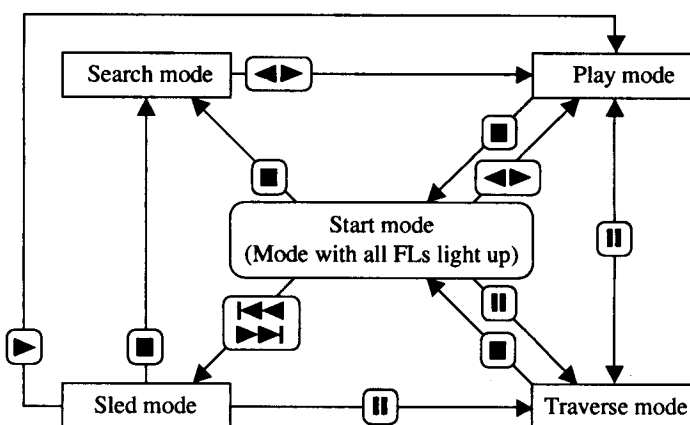
* NOTE 1: There are cases when the tracking servo cannot be locked owing to the protection circuit being operated when heat builds up in the driver IC if the focus search is operated continually for more than 10 minutes. In these cases, the power supply should be switched off for 10 minutes until heat has been reduced and then re-started.

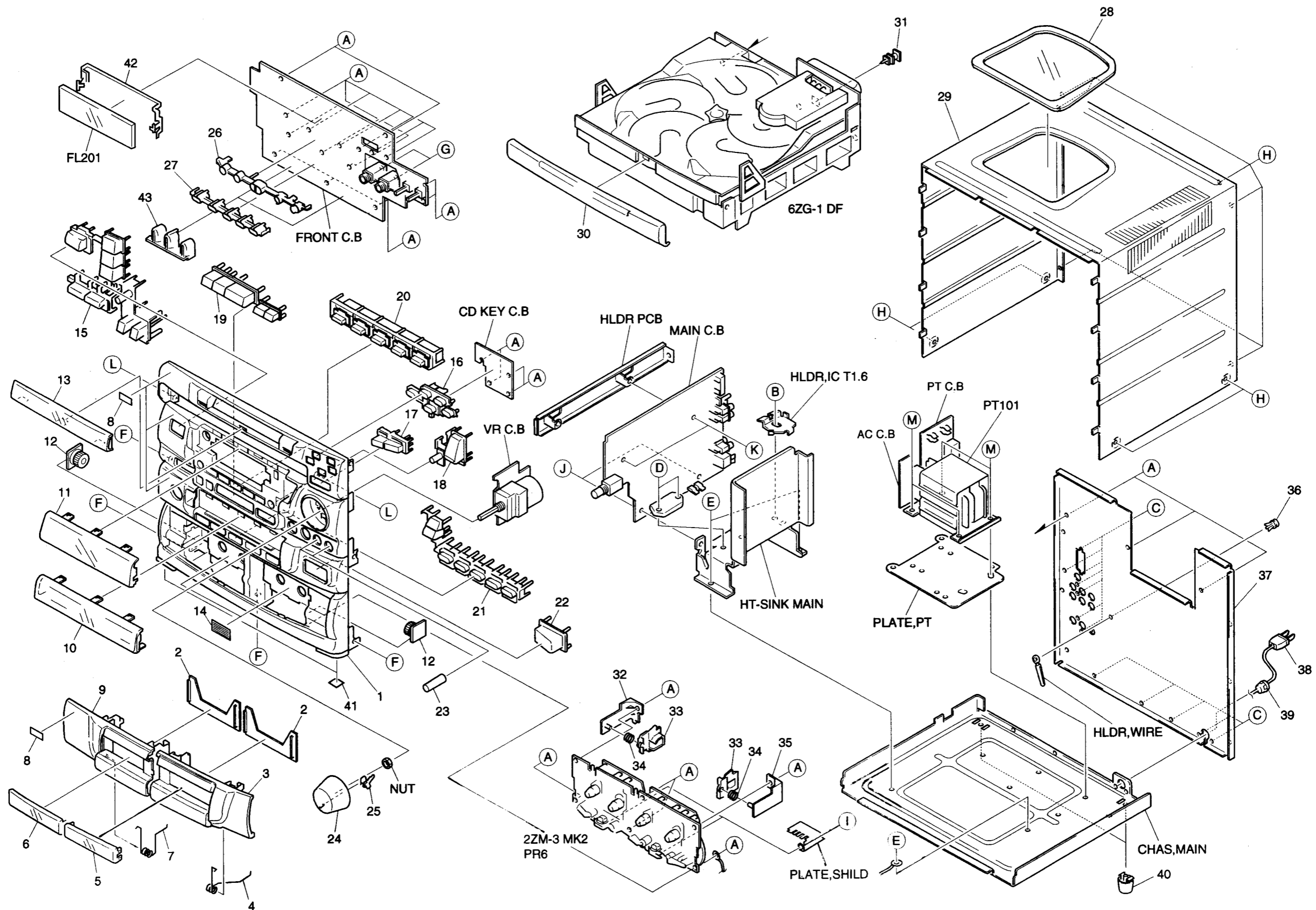
* NOTE 2: Do not press the ◀◀ or ▶▶ keys when the machine is in the || status is active. If they are pressed, playback will not be possible after the || status has been canceled. If the ◀◀ or ▶▶ keys are pressed in the || status, press the ■ key and return to start mode (No. 1).

* NOTE 3: When pressing the ◀◀ or ▶▶ keys, take care to avoid damage to the gears. Because the sled motor is activated when the ◀◀ or ▶▶ keys are pressed, even when the pick-up is at the outermost or innermost track.

4. Operation Outline

- The operation of each mode is carried out in the direction of the arrows from the start mode as indicated in the following illustration.
- When DISC DIRECT key is pressed, test mode is operated same as pressing the PLAY key.
- When CD tray is opened by OPEN / CLOSE key while play and traverse modes, test mode goes back start mode.



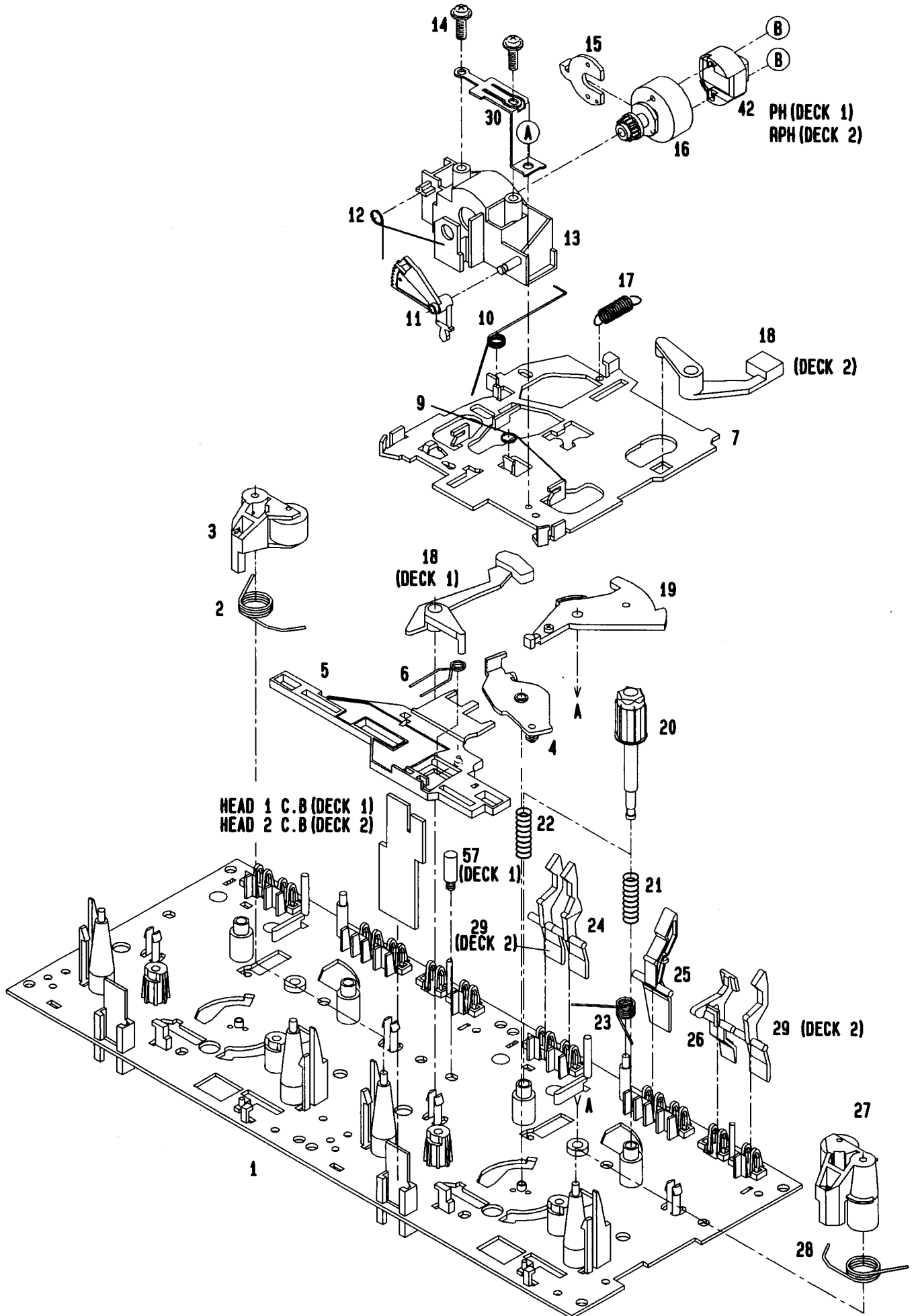


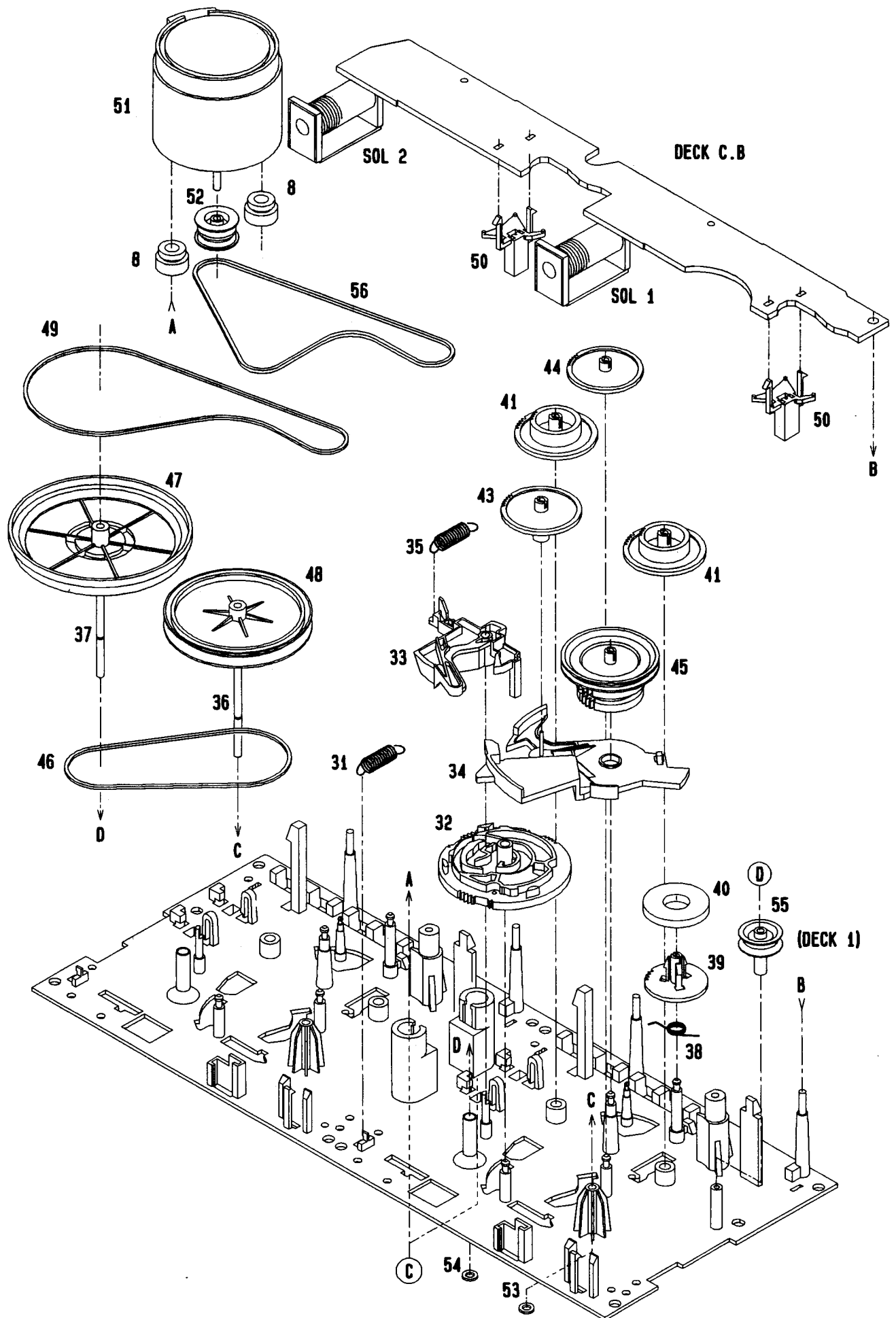
MECHANICAL PARTS LIST 1/1

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-MA2-001-019		CABI, FR HE	30	86-MA3-008-019		PANEL, TRAY H
2	86-NF6-061-019		REFLECTOR, CASS	31	84-ZG1-245-019		CAP, OPTICAL
3	86-MA3-005-019		BOX, CASS R	32	82-NF5-226-019		HLDR LOCK 1N
4	82-NF5-219-019		SPR-T, EJECT 2 (SIN)	33	82-NF5-229-019		PLATE, LOCK
5	86-MA3-032-019		WINDOW, CASS R	34	82-NF5-228-019		SPR-C, LOCK
6	86-MA3-031-019		WINDOW, CASS L	35	82-NF5-227-019		HLDR, LOCK 2N
7	82-NF5-218-019		SRT-T, EJECT 1 (SIN)	36	87-084-077-019		NYLON RIVET DIA 3.5 - 4.5
8	82-NE8-032-019		BADGE AIWA 27.5	37	86-MA2-003-019		PANEL, REAR HEJBNM<HE>
9	86-MA3-004-019		BOX, CASS L	37	86-MA2-008-019		PANEL, REAR LHBN<LH>
10	86-MA3-030-019		WINDOW, GEQ	37	86-MA2-004-019		PANEL, REAR HRJBNM<HR>
11	86-MA3-029-019		WINDOW, AMP	△ 38	87-050-079-019		AC-CORD ASSY, E
12	87-063-165-019		OIL-DMPR 150	39	87-085-185-010		BUSHING, AC CORD E
13	86-MA3-028-019		WINDOW, CD	40	87-085-224-010		FOOT, H17
14	81-532-080-019		LBL, CASS-COMPT	41	83-MA1-203-019		FELT, 15-20-2 LEG
15	86-MA3-013-019		KEY, POWER	42	82-NF5-212-019		GUIDE FL
16	86-MA3-012-019		KEY, DIRECT	43	85-NF5-211-119		GUIDE, LED R
17	86-MA3-011-019		KEY, OPEN	A	87-078-060-019		BVIT 3PB+3-10
18	86-MA3-015-019		KEY, BBE	B	87-067-579-019		BVT 2+3-8 W/O SLOT
19	86-MA3-016-019		KEY, PLAY	C	87-067-761-019		BVT2+3-10 BLK
20	86-MA3-041-019		KEY, FUN ASSY	D	87-067-581-019		BVT2+3-15 W/O SLOT
21	86-MA3-038-019		KEY, GEQ<HE, HR>	E	87-067-688-019		BVTT +3-6
21	86-MA3-046-019		KEY, GEQ<LH>	F	87-591-095-419		QIT+3-8
22	86-MA3-018-019		KEY, CURSOR	G	81-MK1-210-019		S-SCREW BFT2+3-16
23	81-MX4-019-019		KNOB, MIC	H	87-067-641-019		UTT2+3-8 W/O SLOT BLK
24	86-MA3-019-019		KNOB, RTRY MAIN	I	87-571-032-419		VIT+2-3
25	86-MA3-020-019		LENS, VOL	J	87-067-633-019		BVT2+3-8 W/CONVEX
26	86-MA3-202-019		GUIDE, PLAY	K	87-078-084-019		BVTT+3-6 W, CONVEX
27	86-MA3-203-019		GUIDE, GEQ	L	87-721-097-019		QT 2+3-12 GLD
28	86-MA3-042-019		WINDOW, TOP	M	87-067-975-019		S-SCREW IT+4-8
29	86-MA3-010-019		CABI, STEEL				

TAPE MECHANISM EXPLODED VIEW 1/1



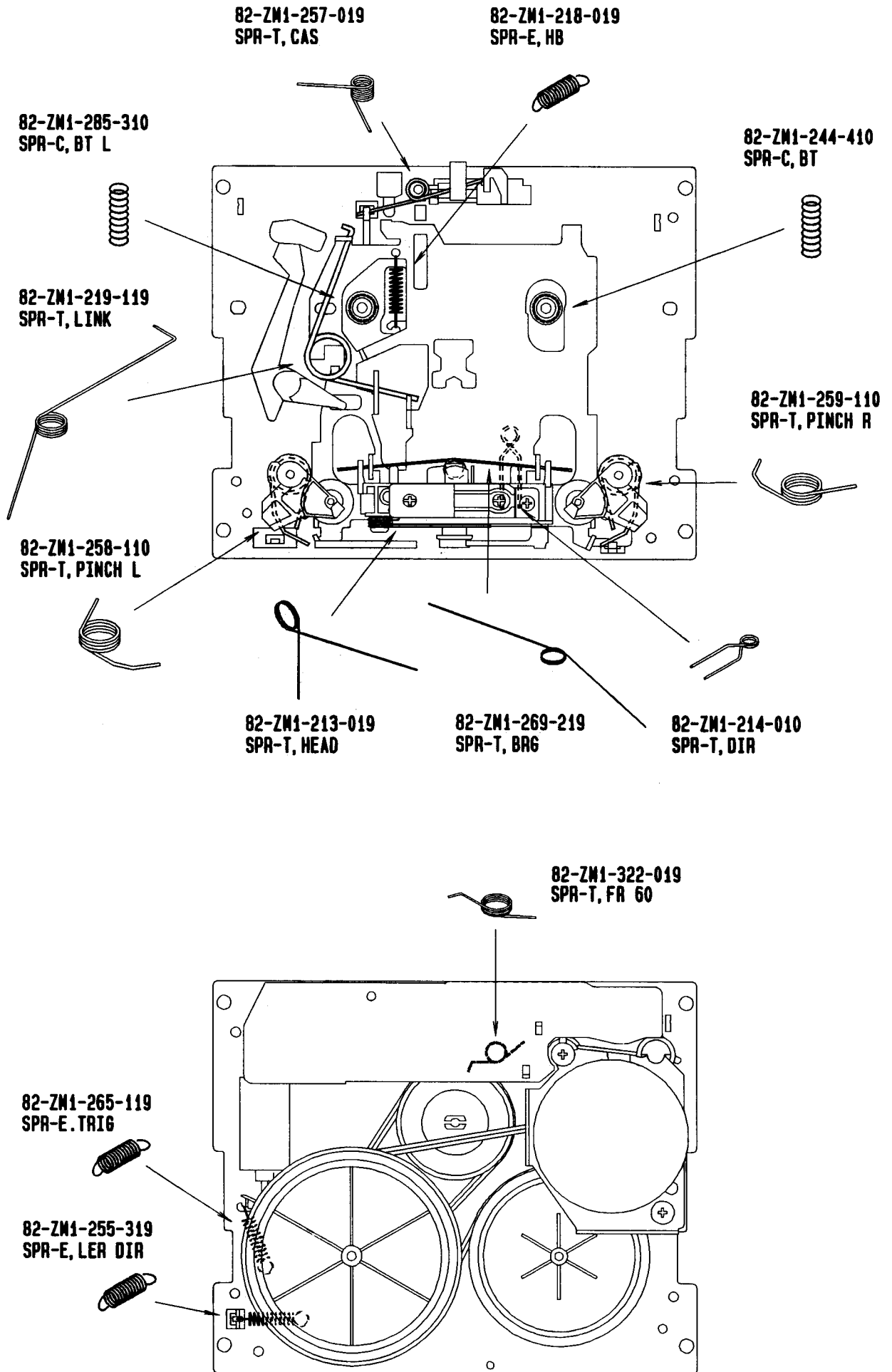


TAPE MECHANISM PARTS LIST 1/1

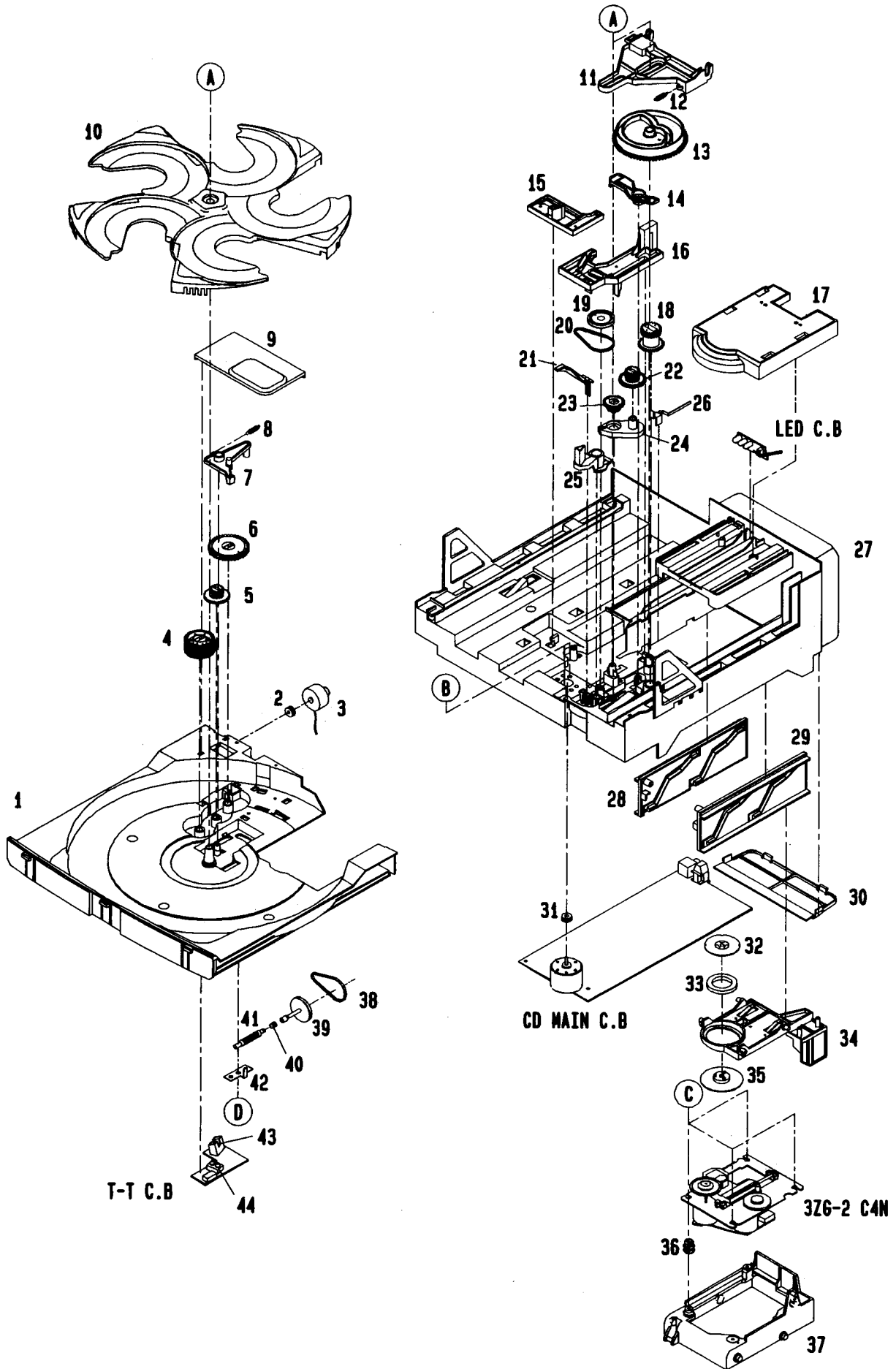
If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

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-A90-110-019		HEAD,PH KP7442
9	82-ZM1-269-219		SPR-T,BRG	42	87-A90-107-019		HEAD,RPH KC9242
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



CD MECHANISM EXPLODED VIEW 1/2

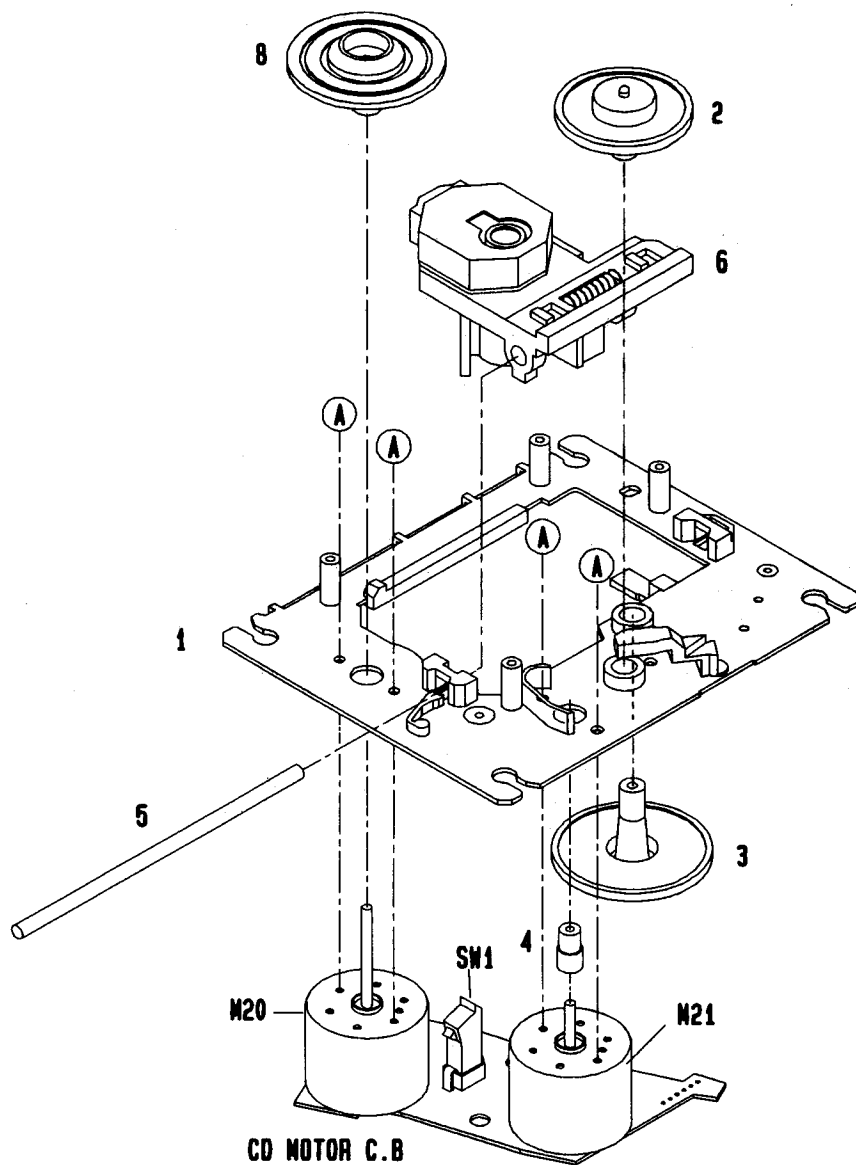


CD MECHANISM PARTS LIST 1/2

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-ZG1-001-01K		TRAY, 5CD	26	86-ZG1-220-110		SPR-P, LOCK
2	81-ZG1-212-01K		PULLY, LOAD MO(*)	27	86-ZG1-201-01K		CHAS, MECHA
3	87-A90-036-019		MOT ASSY, RF-300CA-11	28	86-ZG1-209-01K		SLIDER, CAM L
4	86-ZG1-228-01K		GEAR, TT-B	29	86-ZG1-210-01K		SLIDER, CAM R
5	86-ZG1-227-01K		GEAR, TT-A	30	86-ZG1-005-01K		COVER, CHAS
6	86-ZG1-223-01K		WORM-WHEEL, TT	31	84-ZG2-228-019		PULLEY, MOT
7	86-ZG1-224-01K		LEVER, TT	32	83-ZG3-211-01K		PLATE, DISC
8	86-ZG1-226-010		SPR-E, LEVER TT	33	83-ZG3-602-010		RING, MAG
9	86-ZG1-003-01K		COVER, TRAY	34	86-ZG1-215-01K		HLDR, CHUCK
10	86-ZG1-002-01K		TURN TABLE, 5CD	35	83-ZG3-212-019		CAP, DISC
11	86-ZG1-211-01K		JOINT, CAM	36	80-CD3-214-019		CUSH CD A
12	86-ZG1-216-010		SPR-E, JT	37	86-ZG1-202-01K		HLDR, MECHA
13	86-ZG1-203-01K		GEAR, MAIN CAM	38	86-ZG1-225-019		BELT, SQL. 2-32.9
14	86-ZG1-213-01K		LEVER, LOAD	39	86-ZG1-221-01K		PULLEY, TT
15	86-ZG1-214-01K		LEVER, PROTECT	40	86-ZG1-231-010		SPR-C, WORM
16	86-ZG1-212-01K		SLIDER, LOAD	41	84-ZG1-238-01K		GEAR, WORM N
17	86-ZG1-004-01K		REFLECTOR, CD	42	86-ZG1-232-010		SPR-P, WORM
18	86-ZG1-205-01K		GEAR, TRAY	43	86-ZG1-229-010		HLDR, SENSOR
19	84-ZG1-219-019		PULLY, RELAY BGE	44	86-ZG1-230-010		HLDR, DISC SENSOR
20	84-ZG1-209-010		BELT, SQL. 8-117.7	A	87-078-148-019		VFT 2+3-12(F10)BLK
21	86-ZG1-217-01K		LEVER, SW	B	87-251-072-419		U+2.6-5
22	86-ZG1-206-01K		GEAR, RELAY B	C	81-ZG1-254-019		S-SCEW, MECH HLDR
23	86-ZG1-204-01K		GEAR, RELAY A	D	87-067-579-010		BVT2+3-8 W/O SLOT
24	86-ZG1-218-01K		PLATE, GEAR				
25	86-ZG1-208-01K		LEVER, TRAY				

CD MECHANISM EXPLODED VIEW 2/2



CD MECHANISM PARTS LIST 2/2

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

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	83-ZG2-232-11K		O-SERT S ASSY,S5
2	83-ZG2-204-419		GEAR,A
3	83-ZG2-205-219		GEAR,B
4	83-ZG2-220-01K		GEAR MOTOR 2
5	83-ZG2-207-119		SHAFT,SLIDE
6	87-070-445-010		PICK-UP,KSS-213B
8	83-ZG2-227-01K		TURN TABLE,C1
A	87-261-032-219		SCREW V+2-3

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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