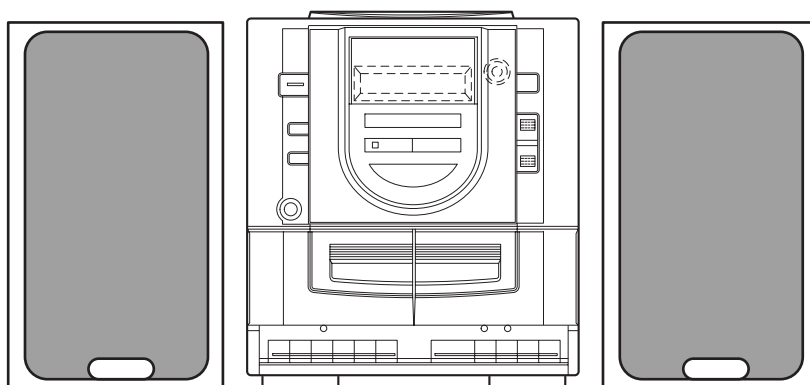




SERVICE MANUAL

COMPACT DISC
STEREO SYSTEM

BASIC TAPE MECHANISM : ZZM-2 YPR1NC
BASIC CD MECHANISM : KSM-213 CDM

SYSTEM	CD CASSEIVER	SPEAKER	REMOTE CONTROLLER
NSX-SZ6	CX-NSZ6	SX-NSZ1	RC-AAS08

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

<Amplifier section>

Power output	Rated: 4 W + 4 W (6 ohms, T.H.D. 1 %, 1 kHz) Reference: 5 W + 5 W (6 ohms, T.H.D. 10 %, 1 kHz) 0.2 % (1 W, 1 kHz, 6 ohms, DIN AUDIO)
Total harmonic distortion	
Inputs	VIDEO/AUX: 600 mV
Outputs	SPEAKERS: 6 ohms or more PHONES: 32 ohms or more

<Cassette deck section>

Track format	4 tracks, 2 channels stereo
Frequency response	50 Hz – 8000 Hz
Recording system	AC bias
Heads	Deck 1: recording/playback x 1, erase x 1 Deck 2: playback x 1

<Compact disc player section>

Laser	Semiconductor laser (λ = 780 nm)
--------------	---

<Speaker system SX-NSZ1>

Speaker system	1 way, bass reflex
Speaker units	Full range: 100 mm cone
Impedance	6 ohms
Dimensions (W x H x D)	200 x 288 x 186 mm
Weight	1.5 kg

<General>

Power requirements	120 V/ 220 - 230 V/ 240 V AC (switchable), 50 Hz/ 60Hz
Power consumption	28 W
Dimensions (W x H x D)	260 x 295 x 260 mm
Weight	3.4 kg

- Specifications and external appearance are subject to change without notice.

ACCESSORIES / PACKAGE LIST

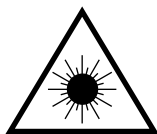
REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	8A-NED-912-010		IB, LH (P) CCE -SZ6
2	8A-NEC-701-010		RC UNIT, RC-AAS08
3	87-043-115-010		ANT, FEEDER FM
4	87-A90-030-010		ANT, LOOP AM-NC C

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.



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

VAROITUS!

Laiteen Käyttöminen 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 laserstrålning, 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

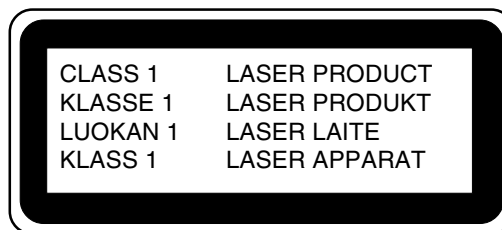
L'Utilisation de commandes, réglages ou procédures autres que ceux spécifiés peut entraîner une dangereuse exposition aux radiations.

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.



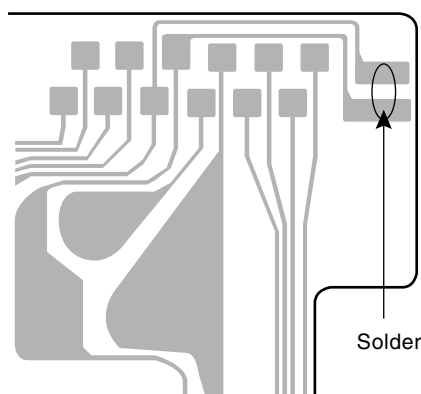
Precaution to replace Optical block

(KSS-213C)

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 right figure.

PICK-UP Assy P.W.B



NOTE ON BEFORE STARTING REPAIR

1. Forced discharge of electrolytic capacitor of power supply block

When repair is going to be attempted in the set that uses relay circuit in the power supply block, electric potential is kept charged across the electrolytic capacitors (C101, 102) even though AC power cord is removed. If repair is attempted in this condition, secondary defect can occur.

In order to prevent the secondary trouble, perform the following measures before starting repair work.

Discharge procedure

- ① Remove the AC power cord.
- ② Connect a discharging resistor at an end of lead wire that has clips at both ends. Connect the other end of the lead wire to metal chassis.
- ③ Contact the other end of the discharging resistor to the positive (+) side (+VH) of C101. (For two seconds)
- ④ Contact the same end of the discharging resistor as step ③ to the negative (-) side (-VH) of C102 in the same way. (For two seconds)
- ⑤ Check that voltage across C101 and C102 has decreased to 1 V or less using a multimeter or an oscilloscope.

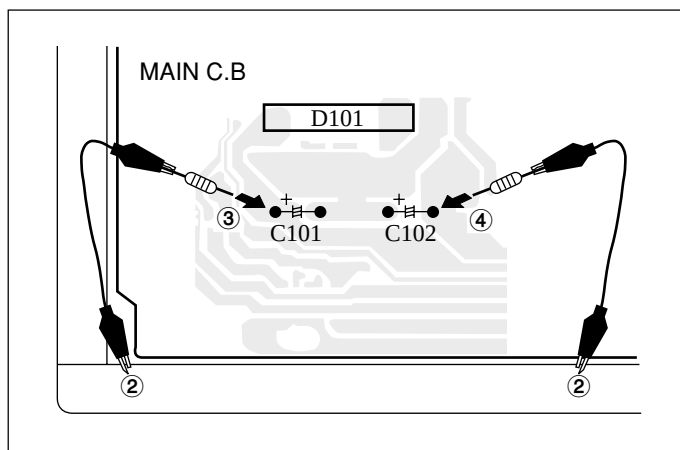


Fig-1

Select a discharging resistor referring to the following table.

Charging voltage (V) (C101, 102)	Discharging resistor (Ω)	Rated power (W)	Parts number
25-48	100	3	87-A00-247-090
49-140	220	5	87-A00-232-090

Note: The reference numbers (C101, C102) of the electrolytic capacitors can change depending on the models. Be sure to check the reference numbers of the charging capacitors on schematic diagram before starting the discharging work.

2. Check items before exchanging the MICROCOMPUTER

Be sure to check the following items before exchanging the MICROCOMPUTER. Exchange the MICROCOMPUTER after confirming that the MICROCOMPUTER is surely defective.

2-1. Regarding the HOLD terminal of the MICROCOMPUTER

When the HOLD terminal (INPUT) of the MICROCOMPUTER is “H”, the MICROCOMPUTER is judged to be operating correctly. When this terminal is “L”, the main power cannot be turned on. Therefore, be sure to check the terminal voltage of the HOLD terminal before exchange.

When the MICROCOMPUTER is not defective, the HOLD terminal can also go “L” when the POWER AMPLIFIER has any abnormalities that triggers the abnormality detection circuit on the MAIN C. B. that sets the HOLD terminal to “L”.

• Good or no good judgement of the MICROCOMPUTER

- ① Turn on the AC main power.
- ② Confirm that the main power is turned on and the HOLD terminal of the MICROCOMPUTER keeps the “H” level or not.
- ③ When the HOLD terminal is “L” level, the abnormality detection circuit is judged to be working correctly and the MICROCOMPUTER is judged to be good.

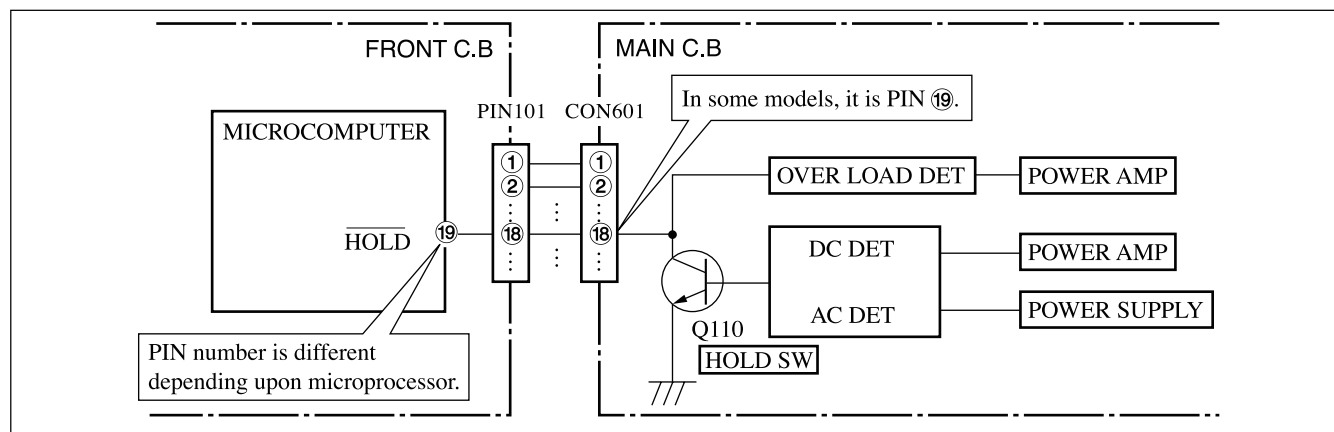


Fig-2-1

In such a case, check also if the POWER AMPLIFIER circuit or power supply circuit has any abnormalities or not.

2-2. Regarding reset

There are cases that the machine does not work correctly because the MICROCOMPUTER is not reset even though the AC power cord is re-inserted, or the software reset (pressing the STOP key + POWER key) is performed.

When the above described phenomenon occurs, it can lead to wrong judgement as if the MICROCOMPUTER is defective and to exchange the MICROCOMPUTER. In such a case, perform the forced-reset by the following procedure and check good or no good of the MICROCOMPUTER.

- ① Remove the AC power cord.

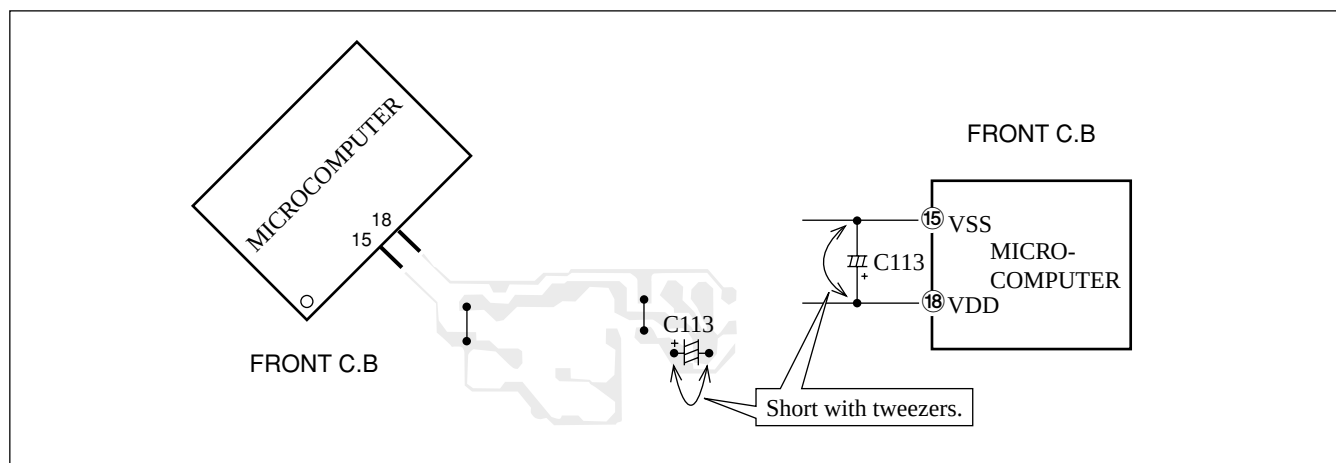


Fig-2-2

- ② Short both ends of the electrolytic capacitor C113 that is connected to VDD of the MICROCOMPUTER with tweezers.
- ③ Connect the AC power cord again. If the MICROCOMPUTER returns to the normal operation, the MICROCOMPUTER is good.

Note: The reference number or MICROCOMPUTER pin number of transistor (Q110) and electrolytic capacitor (C113) can change depending on the models. Be sure to check the reference numbers on schematic diagram before starting the discharging work.

2-3. Confirmation of soldering state of MICROCOMPUTER

Check the soldering state of the MICROCOMPUTER in addition to the above described procedures. Be sure to exchange the MICROCOMPUTER after surely confirming that the trouble is not caused by poor soldering but the MICROCOMPUTER itself.

ELECTRICAL MAIN PARTS LIST

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
IC				C101	87-012-284-080		CAP, U 6800P-50
	87-A21-591-010		C-IC,LC78641NE-D	C102	87-012-284-080		CAP, U 6800P-50
	87-A21-722-010		IC,LA6548D	C103	87-010-544-080		CAP, ELECT 0.1-50V
	87-A21-419-040		C-IC,NJM14558MD-TE2	C104	87-010-544-080		CAP, ELECT 0.1-50V
	8A-NEC-602-010		C-IC,M38B57MCH-E249FP	C105	87-012-282-080		CAP, U 4700P-50
	87-070-083-010		IC,GP1U281X				
	87-A21-443-040		C-IC,M62495AFP	C106	87-012-282-080		CAP, U 4700P-50
	87-A21-560-010		IC,LA1844L-A	C107	87-010-403-080		CAP, ELECT 3.3-50V
	87-070-127-110		IC,LC72131 D	C108	87-010-403-080		CAP, ELECT 3.3-50V
	87-A21-381-040		C-IC,LA9235M	C111	87-010-406-080		CAP, ELECT 22-50
				C112	87-010-406-080		CAP, ELECT 22-50
TRANSISTOR				C113	87-012-195-080		C-CAP,U 100P-50CH
	87-026-609-080		TR,KTA1266GR	C114	87-012-195-080		C-CAP,U 100P-50CH
	89-213-702-010		TR,2SB1370 (1.8W)	C117	87-012-286-080		CAP, U 0.01-25
	87-026-610-080		TR,KTC3198GR	C118	87-012-286-080		CAP, U 0.01-25
	87-A30-076-080		C-TR,2SC3052F	C119	87-012-286-080		CAP, U 0.01-25
	87-A30-282-040		C-TR,DTA114TKA				
	87-A30-075-080		C-TR,2SA1235F	C120	87-012-286-080		CAP, U 0.01-25
	87-A30-256-010		TR,2SD1933	C125	87-010-759-080		C-CAP,U, 0.1-25F
	87-A30-255-010		TR,2SB1342	C126	87-010-759-080		C-CAP,U, 0.1-25F
	87-A30-090-080		FET,2SK2541	C127	87-010-759-080		C-CAP,U, 0.1-25F
	87-A30-091-080		FET,2SJ460	C128	87-010-759-080		C-CAP,U, 0.1-25F
	87-A30-062-080		C-TR,KRC104S				
	87-A30-318-080		TR,CSA952K	C140	87-010-190-080		S CHIP F 0.01
	87-A30-492-080		TR,2SC5343G	C301	87-010-374-080		CAP, ELECT 47-10V
	87-A30-234-080		TR,CSC4115BC	C302	87-010-759-080		C-CAP,U, 0.1-25F
	87-A30-521-080		C-TR,2SC5345S(O)	C303	87-010-260-080		CAP, ELECT 47-25V
	87-A30-489-080		C-TR,KRA107S	C304	87-010-260-080		CAP, ELECT 47-25V
	89-503-602-080		C-FET,2SK360E				
	89-327-143-080		C-TR,2SC27140	C305	87-012-286-080		CAP, U 0.01-25
				C306	87-010-405-080		CAP, ELECT 10-50V
				C307	87-010-263-080		CAP, ELECT 100-10V
				C308	87-012-349-080		C-CAP,S 1000P-50 CH
				C309	87-010-546-080		CAP, ELECT 0.33-50V
				C310	87-010-401-080		CAP, ELECT 1-50V
				C311	87-012-193-080		C-CAP,U 82P-50 CH
				C312	87-012-286-080		CAP, U 0.01-25
				C313	87-010-260-080		CAP, ELECT 47-25V
				C331	87-A10-504-080		C-CAP,U 0.047-16 K B
DIODE							
	87-A40-553-080		DIODE,1N4003 LES	C332	87-010-401-080		CAP, ELECT 1-50V
	87-A40-777-080		ZENER,UZ30BSB	C333	87-010-759-080		C-CAP,U, 0.1-25F
	87-020-465-080		DIODE,1SS133 (110MA)	C334	87-010-759-080		C-CAP,U, 0.1-25F
	87-A40-764-080		ZENER,UZ10BSC	C335	87-010-260-080		CAP, ELECT 47-25V
	87-A40-313-080		C-DIODE,MC 2840	C336	87-012-195-080		C-CAP,U 100P-50CH
	87-A40-269-080		C-DIODE,MC2836				
	87-A40-270-080		C-DIODE,MC2838	C337	87-010-759-080		C-CAP,U, 0.1-25F
	87-A40-758-080		ZENER,UZ8.2BSB	C338	87-012-282-080		CAP, U 4700P-50
	87-A40-747-080		ZENER,UZ5.1BSB	C339	87-A10-504-080		C-CAP,U 0.047-16 K B
	87-A40-743-080		ZENER,UZ4.3BSA	C340	87-012-195-080		C-CAP,U 100P-50CH
	87-A40-749-080		ZENER,UZ5.6BSB	C341	87-010-260-080		CAP, ELECT 47-25V
	87-A40-739-080		ZENER,UZ2.7BSA				
	87-A40-748-080		ZENER,UZ5.6BSA	C342	87-012-286-080		CAP, U 0.01-25
	87-A40-760-080		ZENER,UZ9.1BSA	C344	87-010-260-080		CAP, ELECT 47-25V
	87-A40-455-090		DIODE,RL203 GW	C345	87-012-286-080		CAP, U 0.01-25
				C346	87-010-248-080		CAP, ELECT 220-10V
				C347	87-012-286-080		CAP, U 0.01-25
MAIN C.B							
C9	87-010-759-080		C-CAP,U, 0.1-25F	C348	87-010-263-080		CAP, ELECT 100-10V
C10	87-010-759-080		C-CAP,U, 0.1-25F	C349	87-012-286-080		CAP, U 0.01-25
C11	87-010-759-080		C-CAP,U, 0.1-25F	C350	87-012-176-080		CAP 15P
C12	87-010-759-080		C-CAP,U, 0.1-25F	C351	87-012-176-080		CAP 15P
C21	87-A12-442-000		CAP,E 3300-25 M SMG	C352	87-010-404-080		CAP, ELECT 4.7-50V
C22	87-A10-831-080		CAP,E 1000-25 M SMG	C353	87-012-286-080		CAP, U 0.01-25
C23	87-010-387-080		CAP,E 470-25 SME	C354	87-010-401-080		CAP, ELECT 1-50V
C25	87-010-408-080		CAP, ELECT 47-50V	C355	87-010-759-080		C-CAP,U, 0.1-25F
C26	87-010-408-080		CAP, ELECT 47-50V	C356	87-010-759-080		C-CAP,U, 0.1-25F
C31	87-010-759-080		C-CAP,U, 0.1-25F	C357	87-010-759-080		C-CAP,U, 0.1-25F
C32	87-012-286-080		CAP, U 0.01-25	C358	87-010-405-080		CAP, ELECT 10-50V
C34	87-010-260-080		CAP, ELECT 47-25V	C359	87-012-195-080		C-CAP,U 100P-50CH
C35	87-010-406-080		CAP, ELECT 22-50	C360	87-012-349-080		C-CAP,S 1000P-50 CH
C36	87-010-112-080		CAP, ELECT 100-16V	C361	87-010-544-080		CAP, ELECT 0.1-50V
C50	87-010-247-080		CAP, ELECT 100-50V	C362	87-010-544-080		CAP, ELECT 0.1-50V
C51	87-010-247-080		CAP, ELECT 100-50V	C363	87-010-759-080		C-CAP,U, 0.1-25F
C60	87-010-403-080		CAP, ELECT 3.3-50V	C371	87-010-221-080		CAP, ELECT 470-10V
C61	87-010-260-080		CAP, ELECT 47-25V	C372	87-010-759-080		C-CAP,U, 0.1-25F
				C373	87-010-544-080		CAP, ELECT 0.1-50V
				C374	87-010-236-080		CAP,E 1000-10 SME

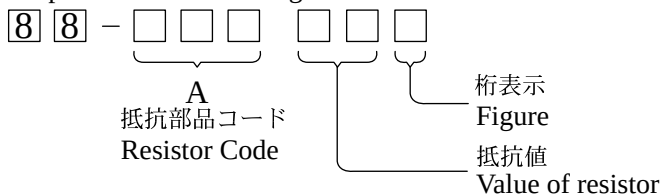
REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
C375	87-010-759-080		C-CAP,U, 0.1-25F	C771	87-010-263-080		CAP, ELECT 100-10V
C376	87-010-263-080		CAP, ELECT 100-10V	C772	87-012-286-080		CAP, U 0.01-25
C377	87-010-759-080		C-CAP,U, 0.1-25F	C782	87-012-286-080		CAP, U 0.01-25
C378	87-010-759-080		C-CAP,U, 0.1-25F	C783	87-012-286-080		CAP, U 0.01-25
C379	87-010-759-080		C-CAP,U, 0.1-25F	C784	87-012-286-080		CAP, U 0.01-25
C380	87-010-759-080		C-CAP,U, 0.1-25F	C785	87-012-286-080		CAP, U 0.01-25
C381	87-010-759-080		C-CAP,U, 0.1-25F	C786	87-012-286-080		CAP, U 0.01-25
C391	87-012-195-080		C-CAP,U 100P-50CH	C788	87-012-167-080		C-CAP,U 5P-50 CH
C392	87-012-195-080		C-CAP,U 100P-50CH	C789	87-A12-052-080		C-CAP,S 0.033-25 J B
C393	87-012-195-080		C-CAP,U 100P-50CH	C790	87-A12-052-080		C-CAP,S 0.033-25 J B
C394	87-012-195-080		C-CAP,U 100P-50CH	C791	87-010-759-080		C-CAP,U, 0.1-25F
C395	87-012-195-080		C-CAP,U 100P-50CH	C792	87-012-286-080		CAP, U 0.01-25
C396	87-012-195-080		C-CAP,U 100P-50CH	C793	87-010-404-080		CAP, ELECT 4.7-50V
C401	87-010-759-080		C-CAP,U, 0.1-25F	C795	87-012-286-080		CAP, U 0.01-25
C402	87-010-759-080		C-CAP,U, 0.1-25F	C796	87-012-286-080		CAP, U 0.01-25
C403	87-012-193-080		C-CAP,U 82P-50 CH	C797	87-010-405-080		CAP, ELECT 10-50V
C404	87-012-193-080		C-CAP,U 82P-50 CH	C798	87-012-286-080		CAP, U 0.01-25
C405	87-012-286-080		CAP, U 0.01-25	C799	87-010-407-080		CAP, ELECT 33-50V
C406	87-012-286-080		CAP, U 0.01-25	C800	87-010-829-080		CAP, U 0.047-16
C407	87-012-286-080		CAP, U 0.01-25	C801	87-010-403-080		CAP, ELECT 3.3-50V
C408	87-012-286-080		CAP, U 0.01-25	C802	87-010-829-080		CAP, U 0.047-16
C409	87-012-278-080		C-CAP,U 2200P-50 B	C803	87-010-787-080		CAP, U 0.022-25
C410	87-012-278-080		C-CAP,U 2200P-50 B	C804	87-010-263-080		CAP, ELECT 100-10V
C411	87-010-405-080		CAP, ELECT 10-50V	C807	87-010-400-080		CAP, ELECT 0.47-50V
C412	87-010-405-080		CAP, ELECT 10-50V	C808	87-010-401-080		CAP, ELECT 1-50V
C413	87-010-197-080		CAP, CHIP 0.01 DM	C809	87-010-401-080		CAP, ELECT 1-50V
C421	87-012-275-080		C-CAP,U 1200P-50 B	C810	87-010-759-080		C-CAP,U, 0.1-25F
C422	87-012-275-080		C-CAP,U 1200P-50 B	C814	87-012-286-080		CAP, U 0.01-25
C423	87-012-274-080		CHIP CAP,U 1000P-50B	C815	87-010-400-080		CAP, ELECT 0.47-50V
C424	87-012-274-080		CHIP CAP,U 1000P-50B	C816	87-010-400-080		CAP, ELECT 0.47-50V
C425	87-010-263-080		CAP, ELECT 100-10V	C821	87-010-405-080		CAP, ELECT 10-50V
C426	87-010-263-080		CAP, ELECT 100-10V	C823	87-010-177-080		C-CAP,S 820P-50 SL
C427	87-012-188-080		C-CAP,U 47P-50 CH	C824	87-010-404-080		CAP, ELECT 4.7-50V
C428	87-012-188-080		C-CAP,U 47P-50 CH	C825	87-010-596-080		CAP, S 0.047-16
C429	87-010-598-080		C-CAP,S 0.068-16VRK	C836	87-012-286-080		CAP, U 0.01-25
C430	87-010-598-080		C-CAP,S 0.068-16VRK	C837	87-012-286-080		CAP, U 0.01-25
C431	87-012-284-080		CAP, U 6800P-50	C842	87-012-286-080		CAP, U 0.01-25
C432	87-012-284-080		CAP, U 6800P-50	C844	87-012-286-080		CAP, U 0.01-25
C433	87-010-546-080		CAP, ELECT 0.33-50V	C850	87-010-260-080		CAP, ELECT 47-25V
C434	87-010-546-080		CAP, ELECT 0.33-50V	C851	87-012-286-080		CAP, U 0.01-25
C435	87-010-263-080		CAP, ELECT 100-10V	C852	87-012-286-080		CAP, U 0.01-25
C441	87-010-759-080		C-CAP,U, 0.1-25F	C853	87-012-286-080		CAP, U 0.01-25
C442	87-010-759-080		C-CAP,U, 0.1-25F	C858	87-010-759-080		C-CAP,U, 0.1-25F
C445	87-A10-039-080		C-CAP,U 470P-50 J CH	C859	87-010-759-080		C-CAP,U, 0.1-25F
C452	87-010-382-080		CAP, ELECT 22-25V	C860	87-012-286-080		CAP, U 0.01-25
C453	87-012-279-080		C-CAP,U 2700P-50 B	C902	87-018-145-080		CAP, TC U 6.8P-50 K CH UP050
C454	87-012-279-080		C-CAP,U 2700P-50 B	C908	87-012-174-080		CAP CHIP CERA SS 12P CHJ
C455	87-012-279-080		C-CAP,U 2700P-50 B	C909	87-012-349-080		C-CAP,S 1000P-50 CH
C456	87-012-286-080		CAP, U 0.01-25	C911	87-012-170-080		C-CAP,U 8P-50 CH
C457	87-A12-361-080		CAP,M 5600P-100 J CP	C912	87-012-195-080		C-CAP,U 100P-50CH
C460	87-010-759-080		C-CAP,U, 0.1-25F	C913	87-012-286-080		CAP, U 0.01-25
C461	87-012-158-080		C-CAP,S 390P-50 CH	C914	87-012-286-080		CAP, U 0.01-25
C462	87-012-158-080		C-CAP,S 390P-50 CH	C915	87-012-286-080		CAP, U 0.01-25
C470	87-A10-039-080		C-CAP,U 470P-50 J CH	C918	87-012-165-080		C-CAP,U 3P-50 CK
C605	87-012-275-080		C-CAP,U 1200P-50 B	C920	87-012-180-080		C-CAP,U 22P-50 CH
C606	87-012-275-080		C-CAP,U 1200P-50 B	C921	87-012-186-080		C-CAP,U 39P-50 CH
C609	87-010-785-080		C-CAP,U0.015-25BK	C922	87-012-174-080		CAP CHIP CERA SS 12P CHJ
C610	87-010-785-080		C-CAP,U0.015-25BK	C923	87-012-270-080		C-CAP,U 470P-50 K B
C611	87-010-545-080		CAP, ELECT 0.22-50V	C924	87-012-174-080		CAP CHIP CERA SS 12P CHJ
C612	87-010-545-080		CAP, ELECT 0.22-50V	C927	87-012-195-080		C-CAP,U 100P-50CH
C613	87-010-545-080		CAP, ELECT 0.22-50V	C961	87-012-170-080		C-CAP,U 8P-50 CH
C614	87-010-545-080		CAP, ELECT 0.22-50V	C962	87-010-401-080		CAP, ELECT 1-50V
C615	87-012-172-080		CAPACITOR CHIP U 10P CH	C971	87-010-381-080		CAP, ELECT 330-16V
C616	87-010-248-080		CAP, ELECT 220-10V	C972	87-010-404-080		CAP, ELECT 4.7-50V
C617	87-010-221-080		CAP, ELECT 470-10V	C973	87-012-286-080		CAP, U 0.01-25
C618	87-010-405-080		CAP, ELECT 10-50V	C974	87-012-286-080		CAP, U 0.01-25
C630	87-010-831-080		C-CAP,U 0.1-16 Z F	C979	87-012-195-080		C-CAP,U 100P-50CH
C671	87-010-831-080		C-CAP,U,0.1-16F	C981	87-010-260-080		CAP, ELECT 47-25V
C672	87-010-831-080		C-CAP,U,0.1-16F	C982	87-010-759-080		C-CAP,U, 0.1-25F
C677	87-012-286-080		CAP, U 0.01-25	C983	87-012-286-080		CAP, U 0.01-25

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
C984	87-012-286-080		CAP, U 0.01-25	C278	87-012-195-080		C-CAP,U 100P-50CH
C985	87-012-195-080		C-CAP,U 100P-50CH	C279	87-010-405-040		CAP,E 10-50
C987	87-012-286-080		CAP, U 0.01-25	C280	87-010-759-080		C-CAP,U, 0.1-25F
C989	87-012-286-080		CAP, U 0.01-25	C281	87-012-270-080		CAP, U 470P-50
C990	87-012-195-080		C-CAP,U 100P-50CH	C282	87-010-177-080		C-CAP,S 820P-50 SL
C991	87-012-176-080		CAP 15P	C500	87-010-759-080		C-CAP,U, 0.1-25F
C992	87-012-176-080		CAP 15P	C501	87-010-406-080		CAP, ELECT 22-50
C993	87-012-274-080		CHIP CAP,U 1000P-50B	C505	87-010-829-080		CAP, U 0.047-16
C994	87-012-195-080		C-CAP,U 100P-50CH	C506	87-010-263-040		CAP,E 100-10
C995	87-012-274-080		CHIP CAP,U 1000P-50B	C507	87-010-246-040		CAP,E 47-35 SME
C996	87-012-195-080		C-CAP,U 100P-50CH	C508	87-010-192-080		C-CAP,S 0.022-50 F
C997	87-010-759-080		C-CAP,U, 0.1-25F	C509	87-010-404-040		CAP,E 4.7-50 SME
C998	87-010-260-080		CAP, ELECT 47-25V	C510	87-010-404-040		CAP,E 4.7-50 SME
C999	87-A11-155-080		CAP,TC U 0.01-16 Z F	C511	87-010-759-080		C-CAP,U, 0.1-25F
CF831	87-008-261-010		FILTER, SFE10.7MA5-A	C512	87-010-263-040		CAP,E 100-10 SME
CF832	87-008-261-010		FILTER, SFE10.7MA5	C514	87-012-274-080		CHIP CAP,U 1000P-50B
CN301	87-A60-424-010		CONN,16P V TOC-B	C516	87-012-286-080		C-CAP,U 0.01-25 K B
CN302	8A-NED-608-010		CONN,ASSY,6P	C517	87-010-759-080		C-CAP,U, 0.1-25F
CN351	87-A60-625-010		CONN,8P V 2MM JMT	C518	87-012-268-080		CAP,U 330P-50 K B GRM
CN401	87-A60-620-010		CONN,3P V 2MM JMT	C523	87-010-248-040		CAP,E 220-10 SME
CNA351	8A-NEC-634-010		CONN ASSY,8P RPB	C524	87-010-192-080		C-CAP,S 0.022-50 F
CNA401	8A-NEC-633-010		CONN ASSY,3P (PH)	C525	87-010-401-040		CAP,E 1-50 SME
D902	87-A40-916-040		C-VARI-CAP,HVC202A	C526	87-012-172-080		CAPACITOR CHIP U 10P CH
D903	87-A40-916-040		C-VARI-CAP,HVC202A	C527	87-012-274-080		CHIP CAP,U 1000P-50B
F101	87-035-360-010		FUSE 630MA 250V T	C528	87-010-175-080		CAP 560P
FC101	87-A90-505-080		FUSE CLAMP,TP00351-51	C530	87-012-195-080		C-CAP,U 100P-50CH
FC102	87-A90-505-080		FUSE CLAMP,TP00351-51	C531	87-012-195-080		C-CAP,U 100P-50CH
FFC201	88-905-151-110		FF-CABLE, 5P 1.25 150MM	C532	87-012-195-080		C-CAP,U 100P-50CH
FFC301	8A-NEC-603-010		FF-CABLE,16P -1.0	C533	87-012-195-080		C-CAP,U 100P-50CH
FFC302	88-906-151-110		FF-CABLE,6P 1.25	C534	87-012-195-080		C-CAP,U 100P-50CH
J101	87-A60-602-010		JACK,DIA6.3 BLK ST W/SW TC	C535	87-012-195-080		C-CAP,U 100P-50CH
J103	87-A61-452-010		TERMINAL,SP 4P(MSC)	C536	87-012-195-080		C-CAP,U 100P-50CH
J602	87-A60-881-010		JACK,PIN 2P MSP 242V05 PBSN	C537	87-012-195-080		C-CAP,U 100P-50CH
J831	87-A60-202-010		TERMINAL,ANT 4P MSP-154V-02	C538	87-012-195-080		C-CAP,U 100P-50CH
JW1	87-A90-093-080		PROTECTOR,3A 491SERIES 60V	C539	87-012-199-080		CAP 220P
JW2	87-A90-093-080		PROTECTOR,3A 491SERIES 60V	C540	87-010-759-080		C-CAP,U, 0.1-25F
JW134	87-008-372-080		FILTER, EM BL OIRNI	C541	87-016-459-040		CAP,E 470-10 SMG
L101	87-A50-610-010		COIL,1UH K(MDEC)	C590	87-010-384-040		CAP,E 100-25 SME
L102	87-A50-610-010		COIL,1UH K(MDEC)	CN500	87-009-345-010		CONN,2P H WHT PH
L451	87-007-342-010		COIL,OSC 85K BIAS	CN501	87-A60-673-010		CONN,9P H 2MM JMT
L801	87-A50-608-010		COIL,FM DET-N(TOK)	CNA501	8Z-ZM2-601-010		CONN ASSY,9P ZMZ-2
L802	87-A91-551-010		FLTR,PCFJZH-450 L(TOK)	EMI271	87-008-372-080		FILTER, EMI BL OIRNI
L811	87-005-847-080		COIL,2.2UH(CECS)	FL501	8A-NEC-601-010		FL,HNA-10SS15T
L832	87-005-847-080		COIL,2.2UH(CECS)	J271	87-A61-243-010		JACK,6.3 BLK MONO W/SW V MSC
L903	88-ZA1-602-110		COIL,FM-RF-U2 2G	L501	87-A50-655-010		COIL,CLK 4.19MHZ (TOKO) 7KLY
L906	87-005-847-080		COIL,2.2UH(CECS)	S201	87-A90-095-080		SW,TACT EVQ11G04M
L907	8A-NEC-611-010		COIL,FM-OSC-U 2G	S202	87-A90-095-080		SW,TACT EVQ11G04M
L908	88-ZA1-624-010		COIL,FM IFT 7-6.2 (COILS)	S203	87-A90-095-080		SW,TACT EVQ11G04M
L951	8A-NF8-667-010		COIL,AM PACK 4(TOK)	S204	87-A90-095-080		SW,TACT EVQ11G04M
PT101	8A-NEC-609-010		PT,ANE-C LH	S205	87-A90-095-080		SW,TACT EVQ11G04M
R790	87-012-286-080		CAP, U 0.01-25	S206	87-A90-095-080		SW,TACT EVQ11G04M
RY101	87-045-389-010		RELAY,OSA-SS-212DM5	S208	87-A90-095-080		SW,TACT EVQ11G04M
S1	87-A90-165-010		SW,SL 1-2-3 SWS2301	S209	87-A90-095-080		SW,TACT EVQ11G04M
T101	87-A60-317-010		TERMINAL, 1P MSC	S210	87-A90-095-080		SW,TACT EVQ11G04M
T102	87-A60-317-010		TERMINAL, 1P MSC	S211	87-A90-095-080		SW,TACT EVQ11G04M
X301	87-A70-046-010		VIB,XTAL 16.934MHZ	S212	87-A90-095-080		SW,TACT EVQ11G04M
X991	87-A70-061-010		VIB,XTAL 4.500MHZ CSA-309	SFR501	87-024-431-080		SFR,3.3K RH063EC
				VR271	87-NB7-602-010		VR,RTRY 10KAX1 1 V
FRONT C.B				CD MOTOR C.B			
C201	87-010-401-040		CAP,E 1-50 SME	M2	9X-262-576-910		MOTOR GEAR ASSY
C202	87-010-759-080		C-CAP,U, 0.1-25F	PIN3	91-564-722-110		CONNECTOR,6P
C203	87-010-260-040		CAP,E 47-25 M 11L SME	SW1	91-572-085-120		LEAF SW
C271	87-012-282-080		CAP, U 4700P-50				
C272	87-010-112-040		CAP,E 100-16				
C273	87-010-545-040		CAP,E 0.22-50 SME				
C274	87-012-195-080		C-CAP,U 100P-50CH				
C275	87-010-545-040		CAP,E 0.22-50 SME				
C276	87-A10-248-080		C-CAP,U0.1-16KBR				
C277	87-010-405-040		CAP,E 10-50				

○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	1005	± 5%	CJ		1.0	0.5	0.35	104
1/16W	1608	± 5%	CJ		1.6	0.8	0.45	108
1/10W	2125	± 5%	CJ		2	1.25	0.45	118
1/8W	3216	± 5%	CJ		3.2	1.6	0.55	128

TRANSISTOR ILLUSTRATION



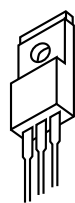
E C B

KTA1266GR
KTC3198GR
CSA952K



E C B

CSC4115BC
CD1585BC



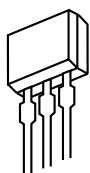
B C E

2SB1370



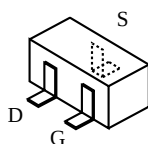
E C B

2SC5343G

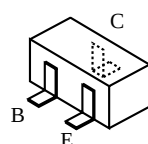


S D G

2SJ460
2SK2541



2SK360E



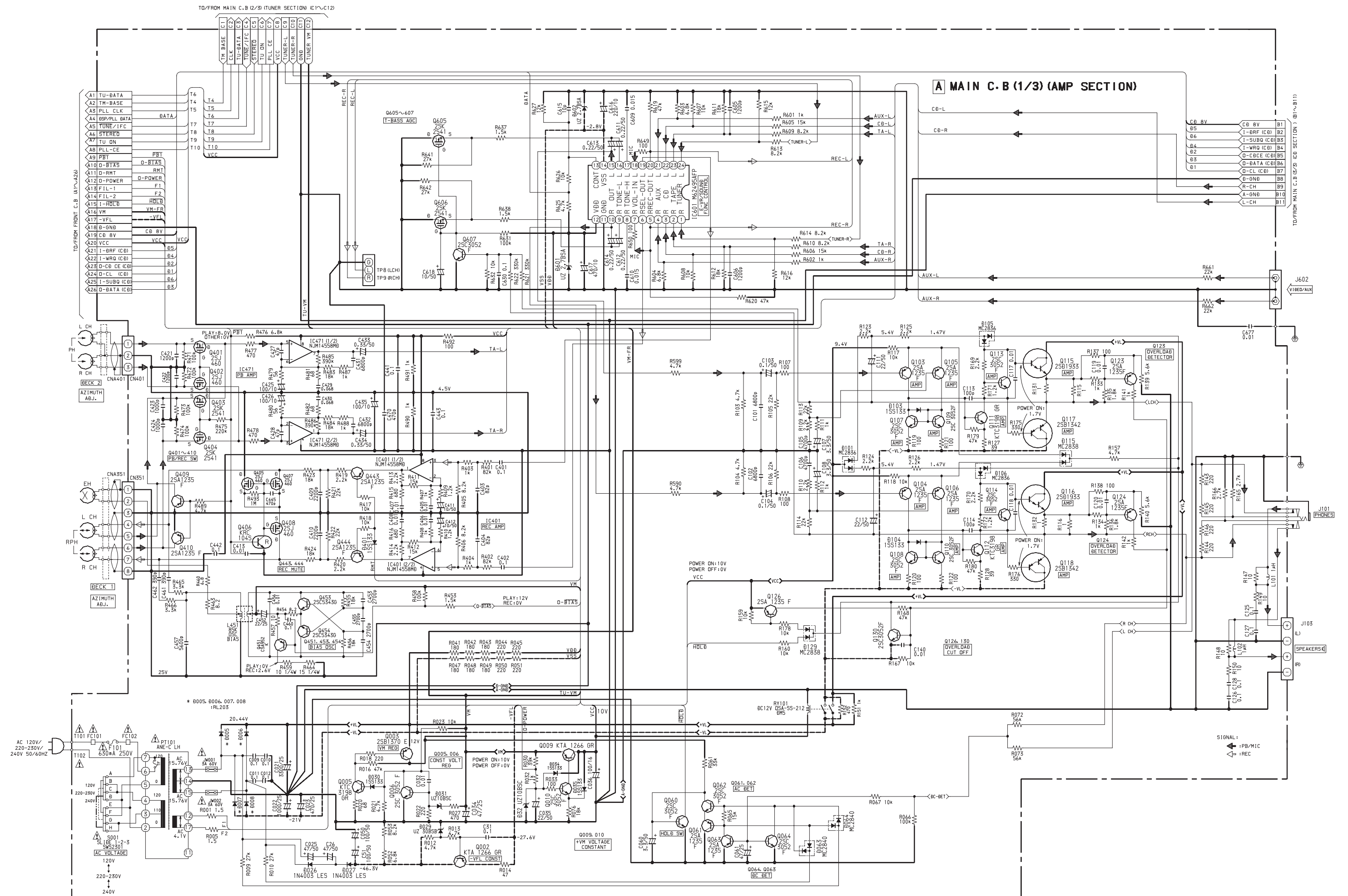
2SA1235F
2SC3052F
2SC5345S(0)
2SC2714
CSD1306E

DTA114TK
DTA114TKA
KRA107S
KRA102S
KRC104S

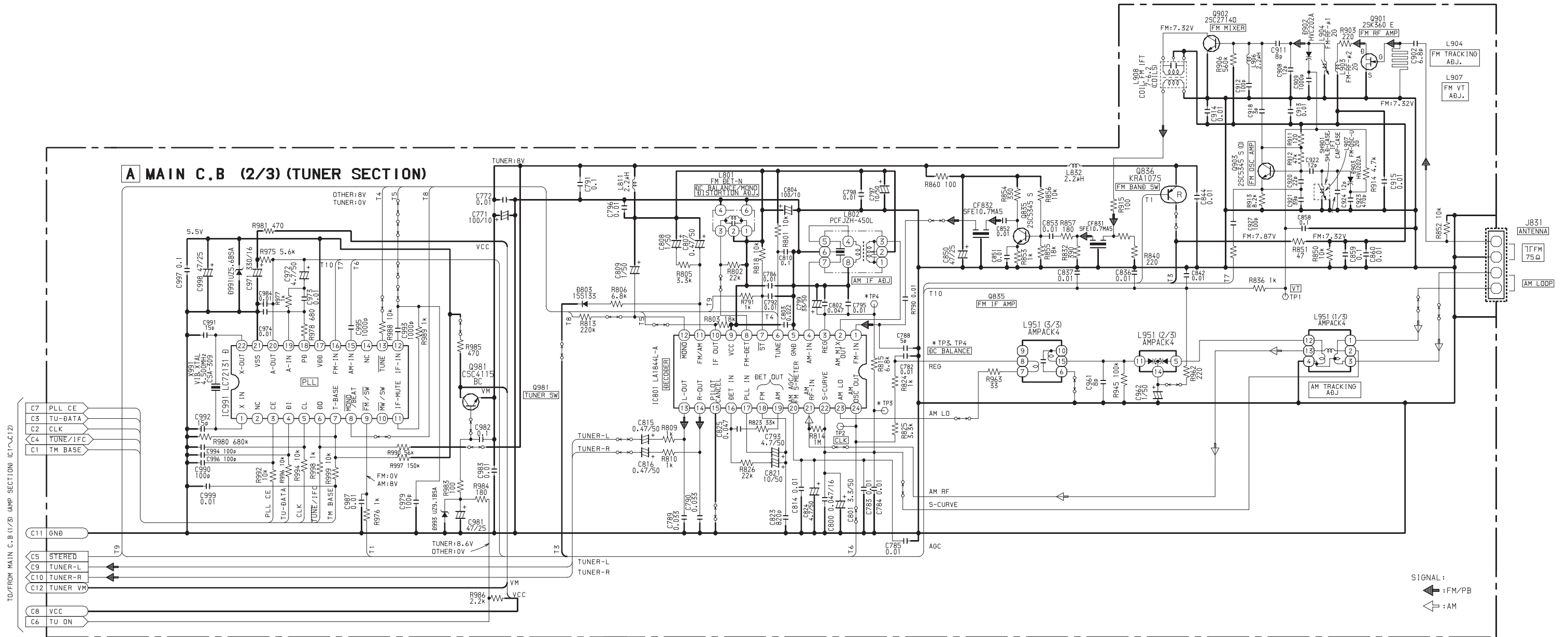
	32	31	30	29	28	27	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1
--	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	---	---	---	---	---	---	---	---	---



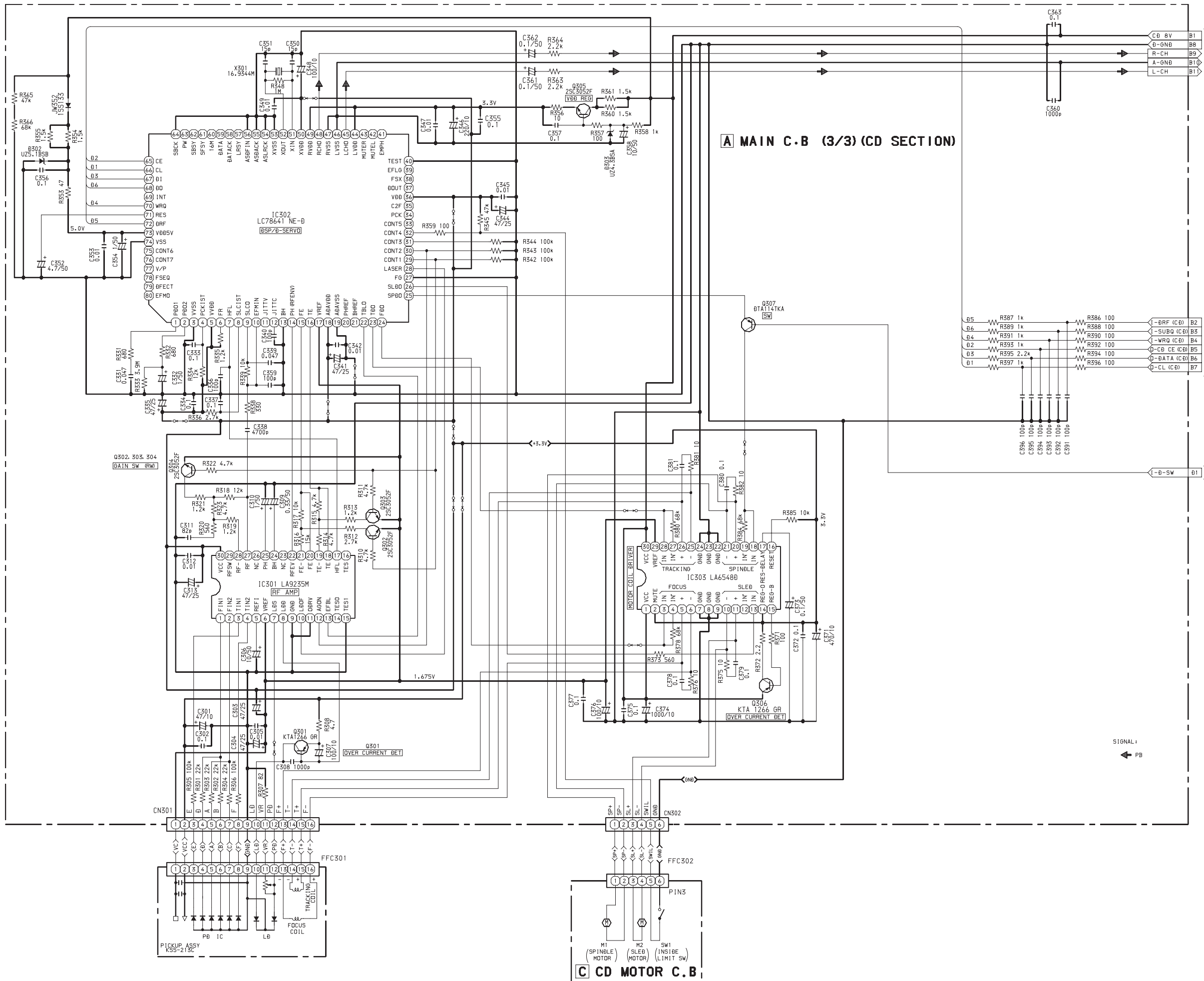
SCHEMATIC DIAGRAM – 1 (MAIN 1/3)



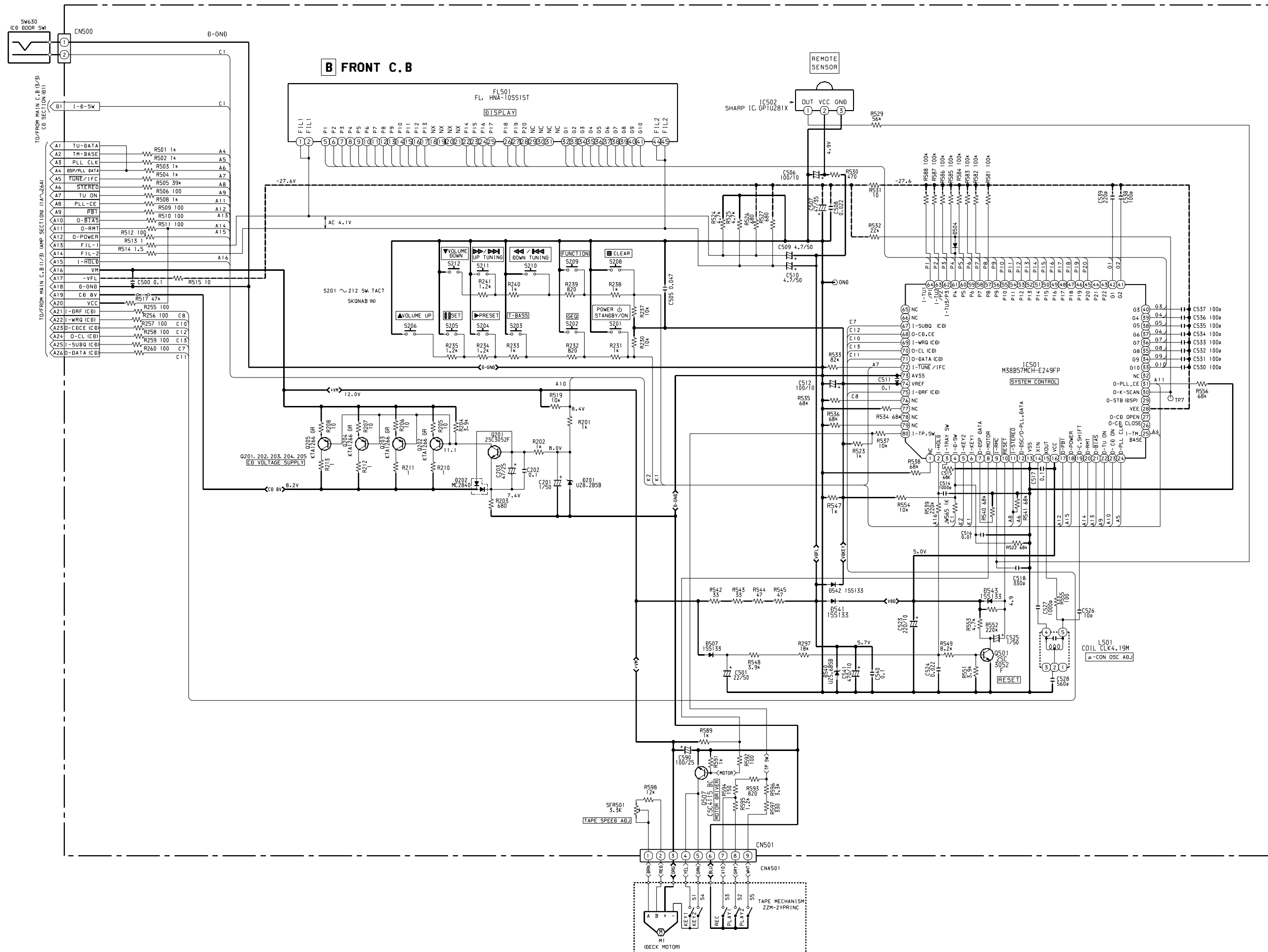
SCHEMATIC DIAGRAM – 2 (MAIN 2/3: TUNER SECTION)



SCHEMATIC DIAGRAM – 3 (MAIN 3/3: CD SECTION)



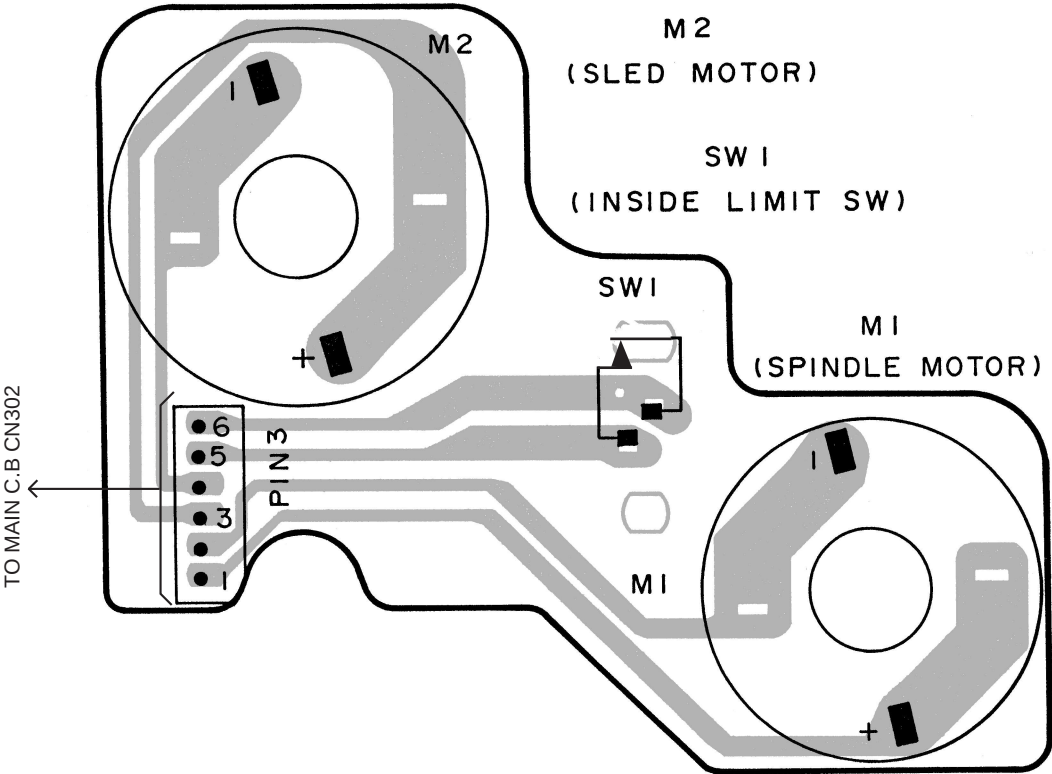
SCHEMATIC DIAGRAM-4 (FRONT)



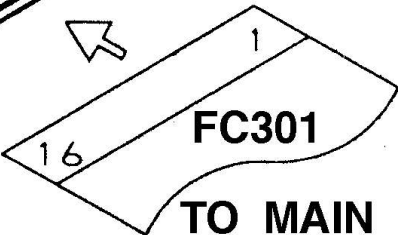
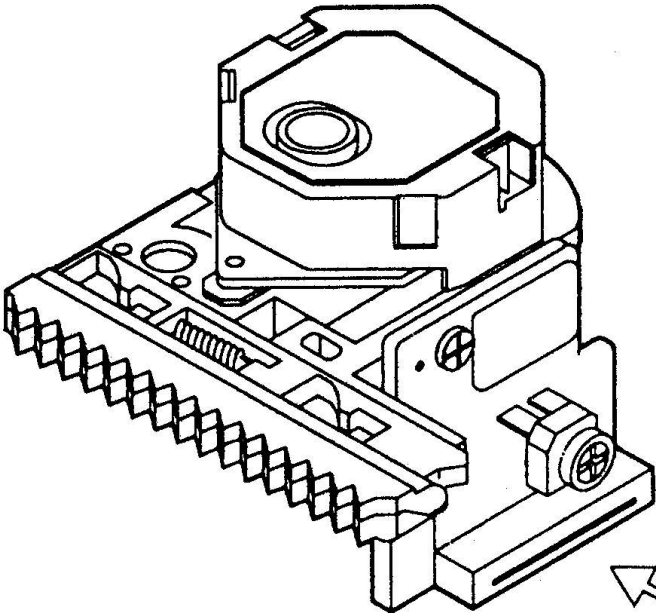
15	14	13	12	11	10	9	8	7	6	5	4	3	2	1																					
DECK1 DECK2 EH RPH PH M1 (DECK MOTOR) D2 S5 (PLAY2) D1 S2 (PLAY1) D1 S3 (REC) D2 S4 (KEY2) D1 S1 (KEY1) TO FRONT C.B CN501															A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U

15	14	13	12	11	10	9	8	7	6	5	4	3	2	1
----	----	----	----	----	----	---	---	---	---	---	---	---	---	---

C CD MOTOR C.B



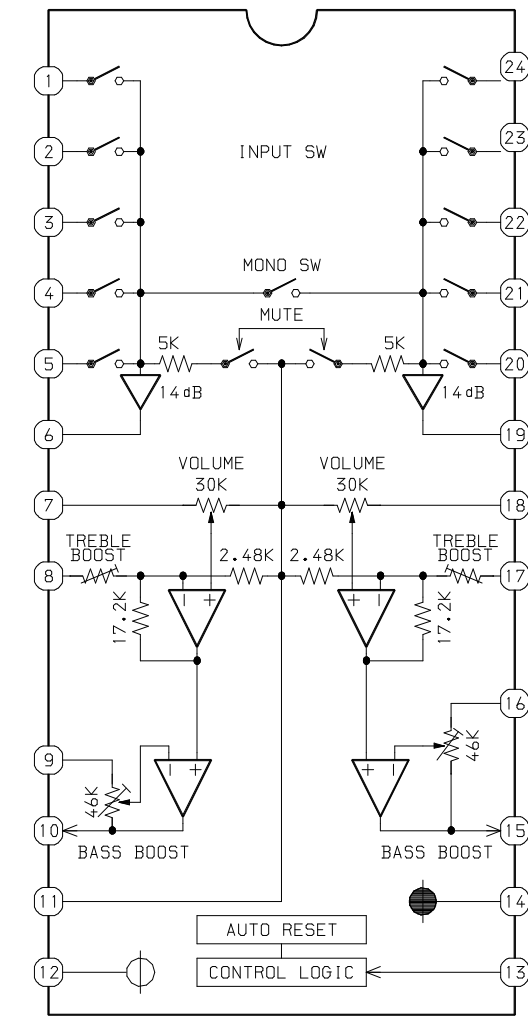
PICK UP ASSY
KSS-213C



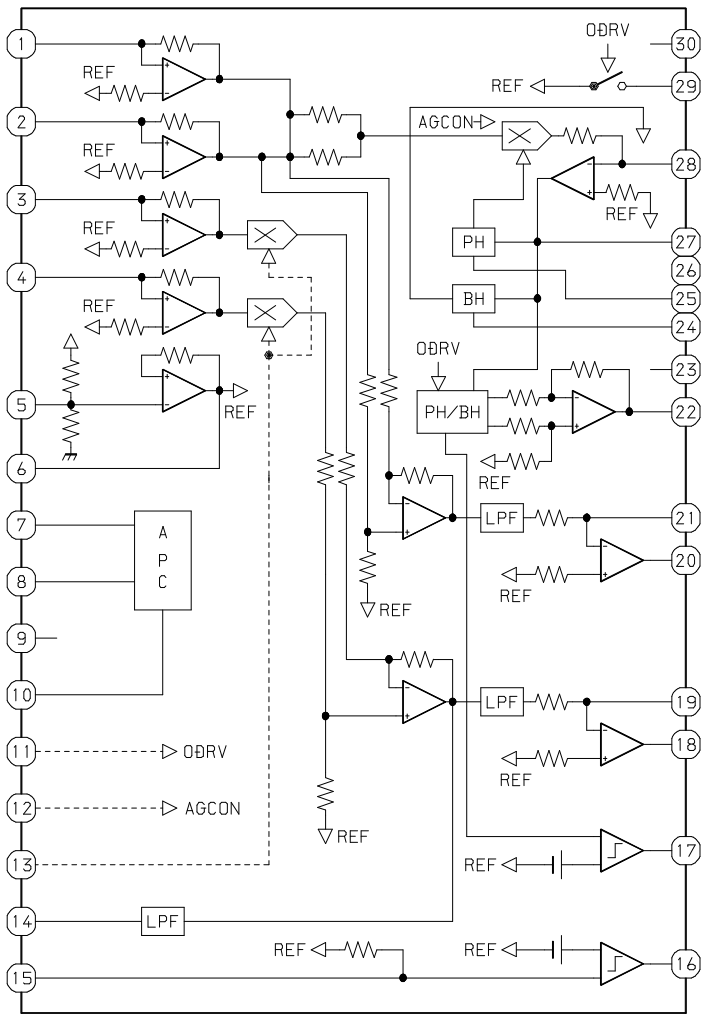
TO MAIN C.B CN301

IC BLOCK DIAGRAM

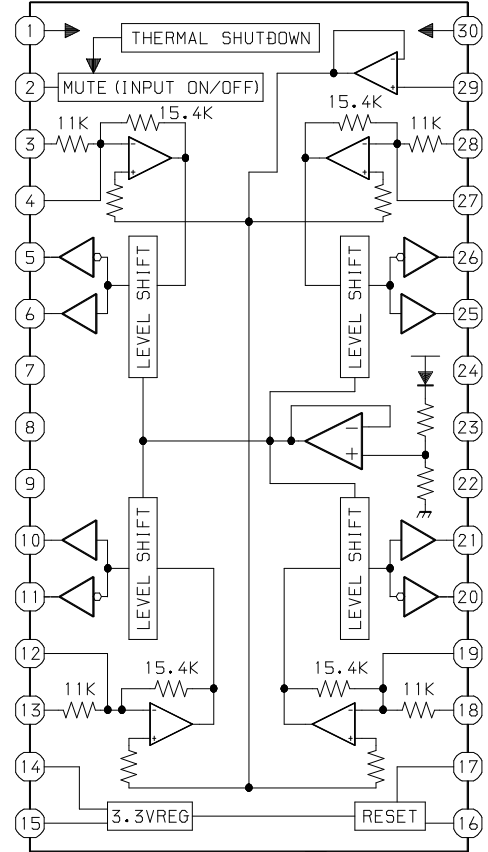
IC, M62495AFP



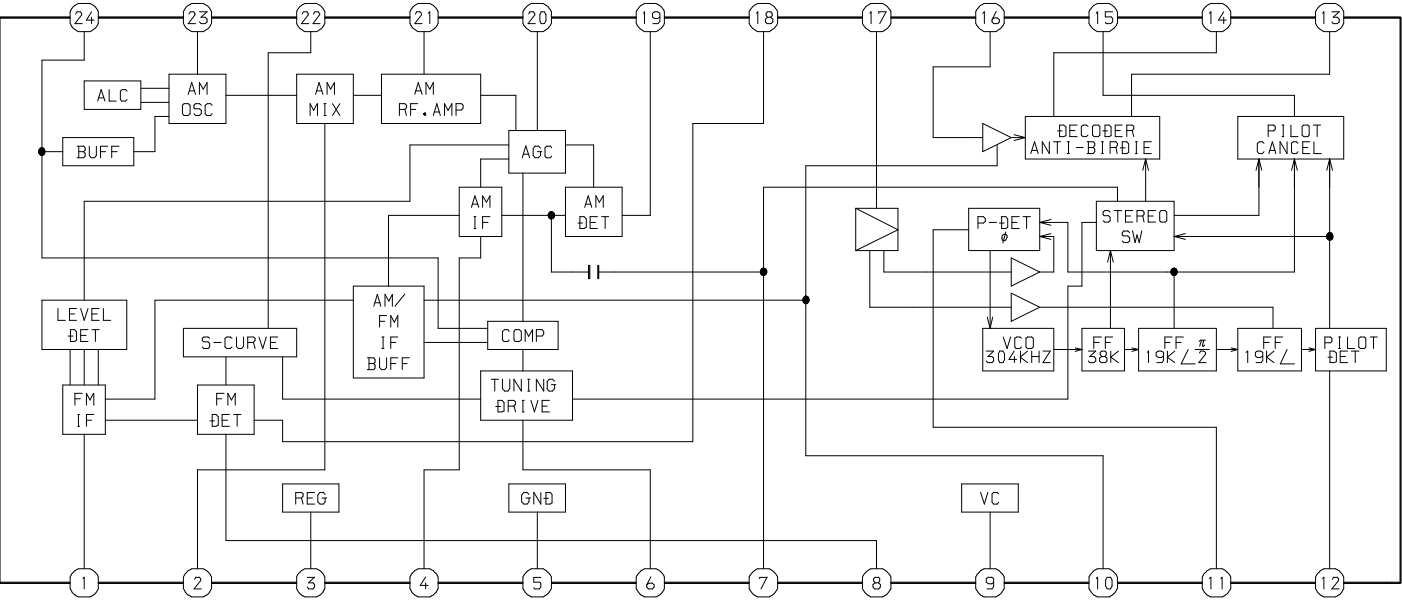
IC, LA9235M



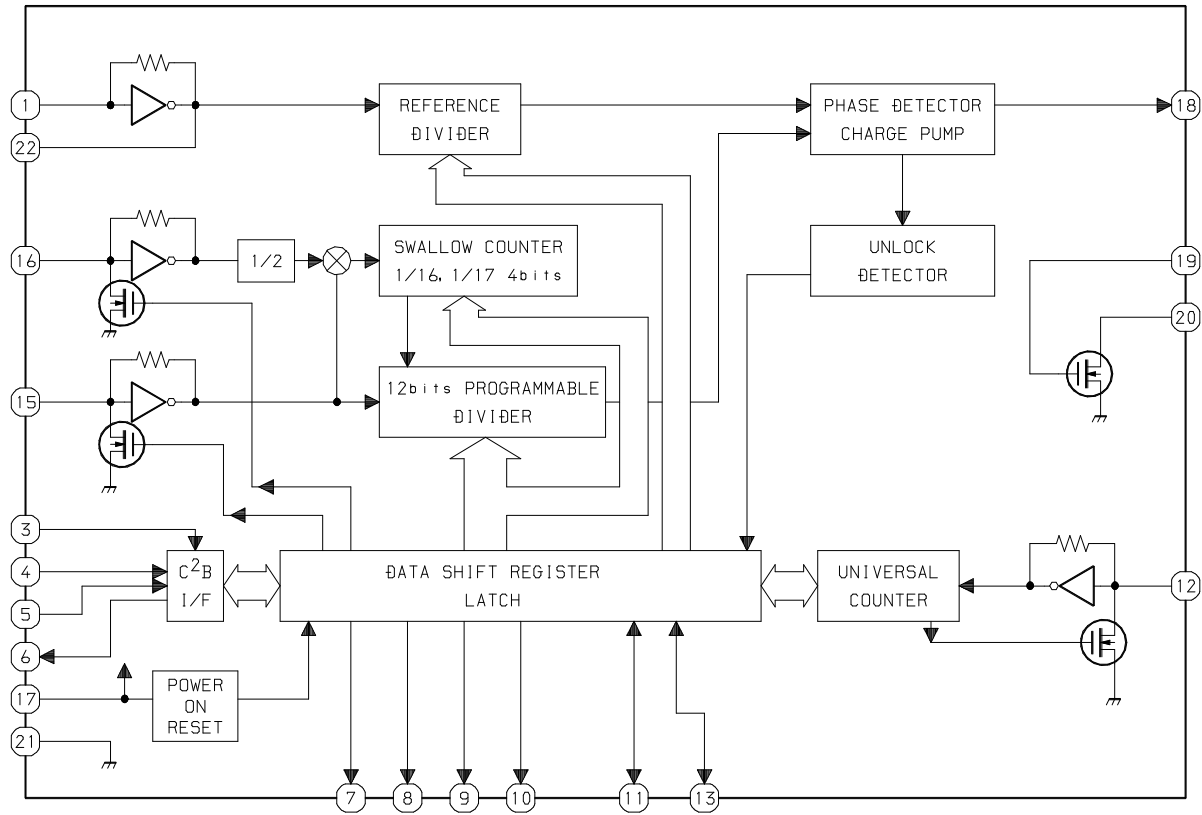
IC, LA6548D



IC, LA1844L-A

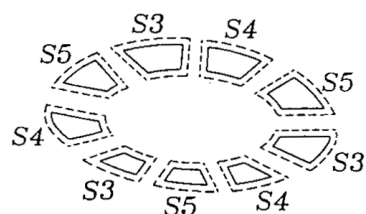
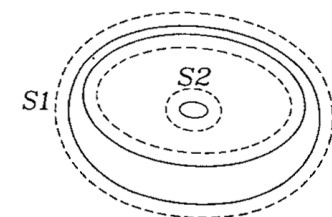
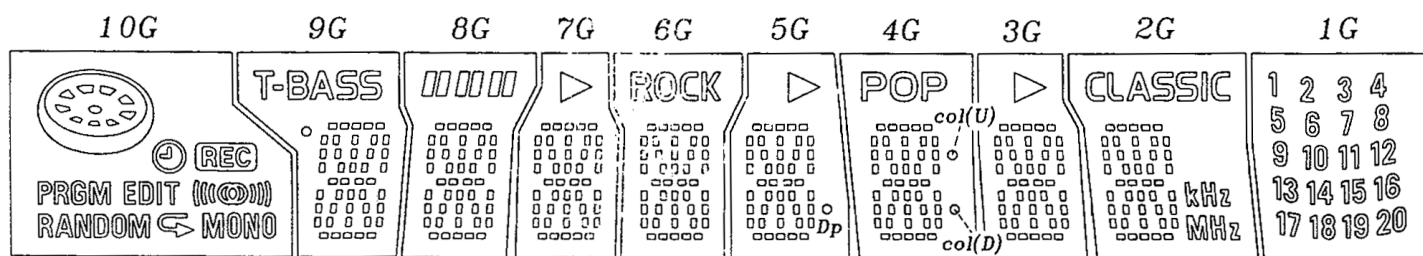


IC, LC72131D



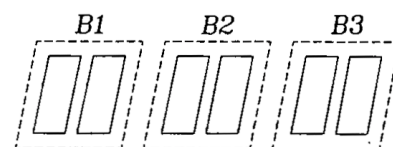
FL (HNA-10SS15T) GRID ASSIGNMENT & ANODE CONNECTION

GRID ASSIGNMENT



(10G)

(2G ~ 9G)



(8G)

ANODE CONNECTION

	10G	9G	8G	7G	6G	5G	4G	3G	2G	1G
P1	MONO	d	d	d	d	d	d	d	d	20
P2	EDIT	n	n	n	n	n	n	n	n	19
P3	REC	p	p	p	p	p	p	p	p	18
P4	Ⓢ	r	r	r	r	r	r	r	r	17
P5	EDIT	e	e	e	e	e	e	e	e	16
P6	Ⓢ	c	c	c	c	c	c	c	c	15
P7	RANDOM	g	g	g	g	g	g	g	g	14
P8	PRGM	m	m	m	m	m	m	m	m	13
P9	S5	f	f	f	f	f	f	f	f	12
P10	S4	b	b	b	b	b	b	b	b	11
P11	S3	k	k	k	k	k	k	k	k	10
P12	S2	j	j	j	j	j	j	j	j	9
P13	S1	h	h	h	h	h	h	h	h	8
P14	—	a	a	a	a	a	a	a	a	7
P15	—	T-BASS	B1	▷	ROCK	▷	POP	▷	CLASSIC	6
P16	—	○	B2	—	—	Dp	col(U)	—	MHz	5
P17	—	—	B3	—	—	—	col(D)	—	kHz	4
P18	—	—	—	—	—	—	—	—	—	3
P19	—	—	—	—	—	—	—	—	—	2
P20	—	—	—	—	—	—	—	—	—	1

IC DESCRIPTION

IC, M38B57MCH - E249FP

Pin No.	Pin Name	I/O	Description
1	NC	—	Not connected.
2	$\overline{\text{I-HOLD}}$	I	Hold input.
3	I-TRAY SW	I	CD tray SW AD input.
4	I-D-SW	I	CD door open/close AD detection input (Not used).
5	I-KEY2	I	Key AD input 2.
6	I-KEY1	I	Key AD input 1.
7	O-DSP DATA	—	Not used.
8	O-MOTOR	O	Cassette deck motor control output.
9	$\overline{\text{I-RMC}}$	I	System remote control signal input (Active "L").
10	$\overline{\text{RESET}}$	I	Reset input for MICON.
11	$\overline{\text{I-STEREO}}$	I	Tuner stereo detect input.
12	O-DSC/ O-PLL.DATA	O	Function IC control output/PLL data output.
13	VSS	—	Connected to GND.
14	XIN	I	4.19MHZ oscillator circuit.
15	XOUT	O	4.19MHZ oscillator circuit.
16	VCC	—	Power supply.
17	$\overline{\text{O-PB1}}$	O	Cassette deck output switching $\overline{\text{PB1}}$ /PB2.
18	O-POWER	O	Power control ON/ $\overline{\text{OFF}}$ output.
19	O-C.SHIFT	O	Clock shift output for micro computer when tuner receiving broadcast.
20	O-RMT	O	REC MUTE output.
21	$\overline{\text{O-BIAS}}$	O	Bias ON/OFF output.
22	O-TU ON	O	Tuner power supply ON/ $\overline{\text{OFF}}$ output.
23	O-CD ON	O	CD power supply ON/OFF output.
24	O-PLL CLK	O	PLL IC clock output.
25	I-TM BASE	I	Reference clock input for timer switch.
26	O-CD CLOSE	O	CD tray close data output. (Not used)
27	O-CD OPEN	O	CD tray open data output. (Not used)
28	VEE	—	Power supply for FL display.
29	O-STB (DSP)	—	Not used.
30	O-K-SCAN	O	Initial scan output.
31	O.PLL_CE	O	Tuner PLL IC chip enable output.
32	NC	—	Not connected.
33	G10	O	FL grid output (G10).
34	G9	O	FL grid output (G9).
35	G8	O	FL grid output (G8).
36	G7	O	FL grid output (G7).
37	G6	O	FL grid output (G6).
38	G5	O	FL grid output (G5).
39	G4	O	FL grid output (G4).
40	G3	O	FL grid output (G3).
41	G2	O	FL grid output (G2).

Pin No.	Pin Name	I/O	Description
42	G1	O	FL grid output (G1).
43	P22	—	Not used.
44	P21	—	Not used.
45	P20	O	FL segment output (P20).
46	P19	O	FL segment output (P19).
47	P18	O	FL segment output (P18).
48	P17	O	FL segment output (P17).
49	P16	O	FL segment output (P16).
50	P15	O	FL segment output (P15).
51	P14	O	FL segment output (P14).
52	P13	O	FL segment output (P13).
53	P12	O	FL segment output (P12).
54	P11	O	FL segment output (P11).
55	P10	O	FL segment output (P10).
56	P9	O	FL segment output (P9).
57	P8	O	FL segment output (P8).
58	P7	O	FL segment output (P7).
59	P6	O	FL segment output (P6).
60	P5	O	FL segment output (P5).
61	P4	O	FL segment output (P4).
62	I-TU3/P3	I/O	TU3 diode input/FL segment output (P3).
63	I-TU2/P2	I/O	TU2 diode input/FL segment output (P2).
64	I-TU1/P1	I/O	TU1 diode input/FL segment output (P1).
65	NC	—	Not connected.
66	NC	—	Not connected.
67	I-SUB Q (CD)	I	SUB-Q data input.
68	O-CD.CE	O	CD data chip enable output.
69	I-WRQ (CD)	I	CD WRQ input.
70	O-CL (CD)	O	CD IC control clock output.
71	O-DATA (CD)	O	CD IC control data output.
72	I-TUNE/IFC	I	Tuner SD detection input/Tuner IF count input.
73	AVSS	—	Connected to GND.
74	VREF	—	Power supply.
75	I-DRF (CD)	I	CD DRF input.
76	NC	—	Not used.
77	NC	—	Not used.
78	NC	—	Not connected.
79	NC	—	Not used.
80	I-TP.SW	I	Deck mechanism SW AD input.

IC, LC78641NE-D

Pin No.	Pin Name	I/O	Description
1	PDO1	O	Internal VCO control phase comparator output pin. (Pull down)
2	PDO2	O	Internal VCO control phase comparator output pin. OFF for rough servo, ON for phase servo. (Pull down)
3	VVSS	—	Internal VCO ground pin.
4	PCKIST	—	PDO output current adjustment resistor connection pin.
5	VVDD	—	Internal VCO power supply pin.
6	FR	—	VCO frequency range adjustment resistor connection pin. (Pull up)
7	HFL	I	Mirror detection signal input pin.
8	SLCIST	—	SLCO output current adjustment resistor connection pin.
9	SLCO	O	Control output.
10	EFMIN	I	EFM signal input pin.
11	JITTV	O	Jitter detection monitor pin. (Not used)
12	JITTC	O	Jitter detection monitor pin. (Pull down)
13	BH	I	BH signal input pin. (Connected to GND)
14	PH (RFENV)	I	PH signal or RFENV signal input pin.
15	FE	I	FE signal input pin.
16	TE	I	TE signal input pin.
17	VREF	I	VREF input pin.
18	ADAVDD	—	Servo A/D, D/A power supply pin.
19	ADAVSS	—	Servo A/D, D/A ground pin.
20	PHREF	O	PH reference output pin. (Not used)
21	BHREF	O	BH reference output pin. (Not used)
22	TBLO	O	Tracking balance output pin.
23	TDO	O	Tracking control output pin.
24	FDO	O	Focus control output pin.
25	SPDO	O	Spindle control output pin.
26	SLDO	O	Thread control output pin.
27	FG	I/O	Output driver VREF output pin. FG signal input pin. (Connected to GND)
28	LASER	O	Laser ON/OFF control pin.
29	CONT1	I/O	General-purpose input/output pin 1.
30	CONT2	I/O	General-purpose input/output pin 2.
31	CONT3	I/O	General-purpose input/output pin 3.
32	CONT4	I/O	General-purpose input/output pin 4.
33	CONT5	I/O	General-purpose input/output pin 5. (Not used)
34	PCK	O	EFM data playback clock monitor pin. Average 4.3218MHz when the phase is locked. (Not used)
35	C2F	—	C2 flag output pin. (Not used)
36	VDD	—	Digital power supply pin.
37	DOUT	O	Digital out output pin. (EIAJ format). (Not used)
38	FSX	O	Output pin for the 7.35kHz synchronization signal divided from the crystal oscillator. (Not used)

Pin No.	Pin Name	I/O	Description
39	EFLG	O	C1, C2 error correction monitor pin. (Not used)
40	TEST	I	Test input pin. (Connected to GND)
41	EMPH	I/O	Emphasis pin. Which becomes an input pin after reset and can be controlled externally. This becomes an emphasis monitor pin under control by command. (Not used)
42	MUTEL	O	L channel mute output pin. (Not used)
43	MUTER	—	R channel mute output pin. (Not used)
44	LVDD	—	L channel power supply pin.
45	LCHO	I	L channel output pin.
46	LVSS	—	L channel ground pin.
47	RVSS	O	R channel ground pin.
48	RCHO	I	R channel output pin.
49	RVDD	O	R channel power supply pin.
50	XVDD	O	Crystal oscillator power supply pin.
51	XIN	I	Connections for a 16.9344MHz crystal oscillator pin.
52	XOUT	O	
53	XVSS	I	Crystal oscillator ground pin.
54	ASLRCK	I	L/R clock input pin. (Connected to GND)
55	ASDACK	I	Bit clock input pin. (Connected to GND)
56	ASDFIN	—	L/R channel data input pin. (Connected to GND)
57	LRSY	—	L/R clock output pin. (Not used)
58	DATAACK	O	Bit clock output pin. (Not used)
59	DATA	O	L/R channel data output pin. (Not used)
60	16M	O	16.9344MHz output pin. (Not used)
61	SFSY	O	Subcode frame synchronization signal output pin. This signal falls when the subcode is in the standby state. (Not used)
62	SBSY	O	Subcode clock synchronization signal output pin. (Not used)
63	PW	O	Subcode P, Q, R, S, T, U and W output pin. (Not used)
64	SBCK	I	Subcode readout clock input pin. (Connected to GND)
65	CE	I	Chip enable signal input pin.
66	CL	I	Data transfer clock input pin.
67	DI	I	Data input pin.
68	DO	O	Data output pin.
69	INT	O	Interruption signal output pin. (Not used)
70	WRQ	O	Interruption signal output pin.
71	RES	I	Reset input pin. This pin must be set low briefly after power is first applied.
72	DRF	O	Focus ON detect pin.
73	C2F	—	Microprocessor interface power supply.
74	VDD	—	Digital ground pin.
75	DOUT	I/O	General-purpose input/output pin 6. (Not used)
76	CONT7	I/O	General-purpose input/output pin 7. (Not used)
77	V/P	O	Rough servo/phase control automatic switching monitor output pin. “H” for rough servo and “L” for phase servo. (Not used)

Pin No.	Pin Name	I/O	Description
78	FSEQ	O	Synchronization signal detection output pin. Outputs a high level when the synchronization signal detected from the EFM signal and the internally generated synchronization signal agree. (Not used)
79	DEFECT	I/O	Defect pin. Which becomes an input pin after reset and can be controlled externally. This becomes the defect monitor pin under control by command. (Not used)
80	EFMO	O	EFM signal output pin. (Not used)

ADJUSTMENT <TUNER / DECK / FRONT>

< TUNER SECTION >

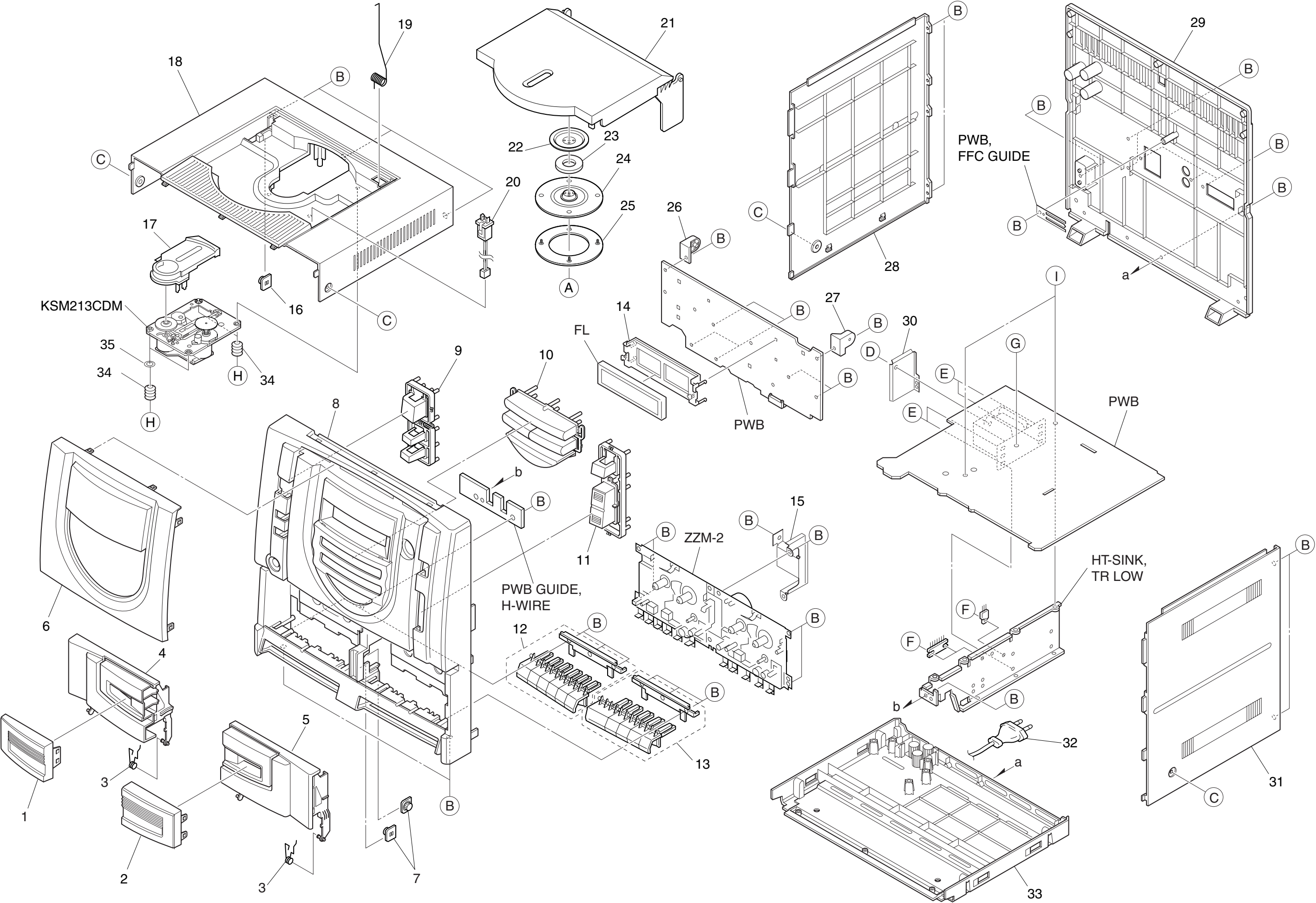
1. Clock frequency Check
Settings : • Test point : TP2 (CLK)
Method : Set to AM 1710kHz and check that the test point is 2160kHz $\pm$ 45Hz.
2. AM VT Check
Settings : • Test point : TP1 (VT)
Method : Set to AM 1710kHz, 530kHz and check that the test point is less than 8.5V (1710kHz) and more than 0.6V (530kHz).
3. FM VT Adjustment
Settings : • Test point : TP1 (VT)
• Adjustment location : L907
Method : Set to FM 108.0MHz and adjust L907 so that the test point is 7.0V $\pm$ 100mV.
4. AM Tracking Adjustment
Settings : • Test point : TP8 (Lch), TP9 (Rch)
• Adjustment location :
L951(1/3) 999kHz
Method : Set to AM 999kHz and adjust L951(1/3) to MAX.
5. FM Tracking Adjustment
Settings : • Test point : TP8 (Lch), TP9 (Rch)
• Adjustment location : L904
Method : Set to FM 87.5MHz and adjust L904 so that the test point is maximum.
6. AM IF Adjustment
Settings : • Test point : TP8 (Lch), TP9 (Rch)
• Adjustment location :
L802 450kHz
7. DC Balance / Mono Distortion Adjustment
Settings : • Test point : TP3, TP4 (DC Balance)
: TP8(Lch), TP9 (Rch) (Distortion)
• Adjustment location : L801
• Input level : 60dB μ V
Method : Set to FM 98MHz and adjust L801 so that the voltage between TP3 and TP4 is 0V $\pm$ 0.04V.
Then check the distortion is less than 1.3%.
2. Head Azimuth Adjustment (DECK 1, DECK 2)
Settings : • Test tape : TTA-330
• Test point : TP8 (Lch), TP9 (Rch)
• Adjustment location : Head azimuth adjustment screw
Method : Play back (FWD) the 8kHz signal of the test tape and adjust screw so that the output becomes maximum.
Next, perform on REV PLAY mode.
3. PB Frequency Response Check (DECK 1, DECK 2)
Settings : • Test tape : TTA-330
• Test point : TP8 (Lch), TP9 (Rch)
Method : Play back the 315Hz and 8kHz signals of the test tape and check that the output ratio of the 8kHz signal with respect to that of the 315Hz signal is 0dB $\pm$ 4dB.
4. REC/PB Frequency Response Check (DECK 1)
Settings : • Test tape : TTA-602
• Test point : TP8 (Lch), TP9 (Rch)
• Input signal : 1 kHz, 8 kHz (LINE IN) (-20 UV)
Method : Apply a 1kHz signal and REC mode. Then adjust OSC attenuator so that the output level at the TP8, TP9 becomes 80mV. Record and play back the 1kHz and 8kHz signal and check that the output of the 8kHz signals is 0dB $\pm$ 5dB with respect to that of the 1 kHz signal.
5. REC/PB Sensitivity Check (DECK 1)
Settings : • Test tape : TTA-602
• Test point : TP8 (Lch), TP9(Rch)
• Input signal : 1kHz(LINE IN) (0 UV)
Method : Apply a 1kHz signal and REC mode. Then adjust OSC attenuator so that the output level at TP8, TP9 becomes 8mV. Record and play back the 1kHz signals and check that the output is -2dB $\pm$ 3.5dB.
6. PB Sensitivity Check (DECK 1, DECK 2)
Settings : • Test tape : TTA-200
• Test point : TP8 (Lch), TP9 (Rch)
Method : Play back the test tape and check that the output level of the test point is 110mV $\pm$ 3.5dB.

< DECK SECTION >

1. Tape Speed Adjustment (DECK 1)
Settings : • Test tape : TTA-100
• Test point : TP8 (Lch), TP9 (Rch)
• Adjustment location : SFR501
Method : Play back the test tape and adjust SFR501 so that the frequency counter reads 3000Hz $\pm$ 8Hz (FWD) and $\pm$ 45Hz (REV) with respect to forward speed.

< FRONT SECTION >

1. μ -CON OSC Adjustment
Settings : • Test point : TP7 and (GND)
• Adjustment location : L501
Method : Insert AC plug while pressing TUNER function key. Adjust L501 so that the frequency at the test point is 233.4Hz $\pm$ 0.23Hz.

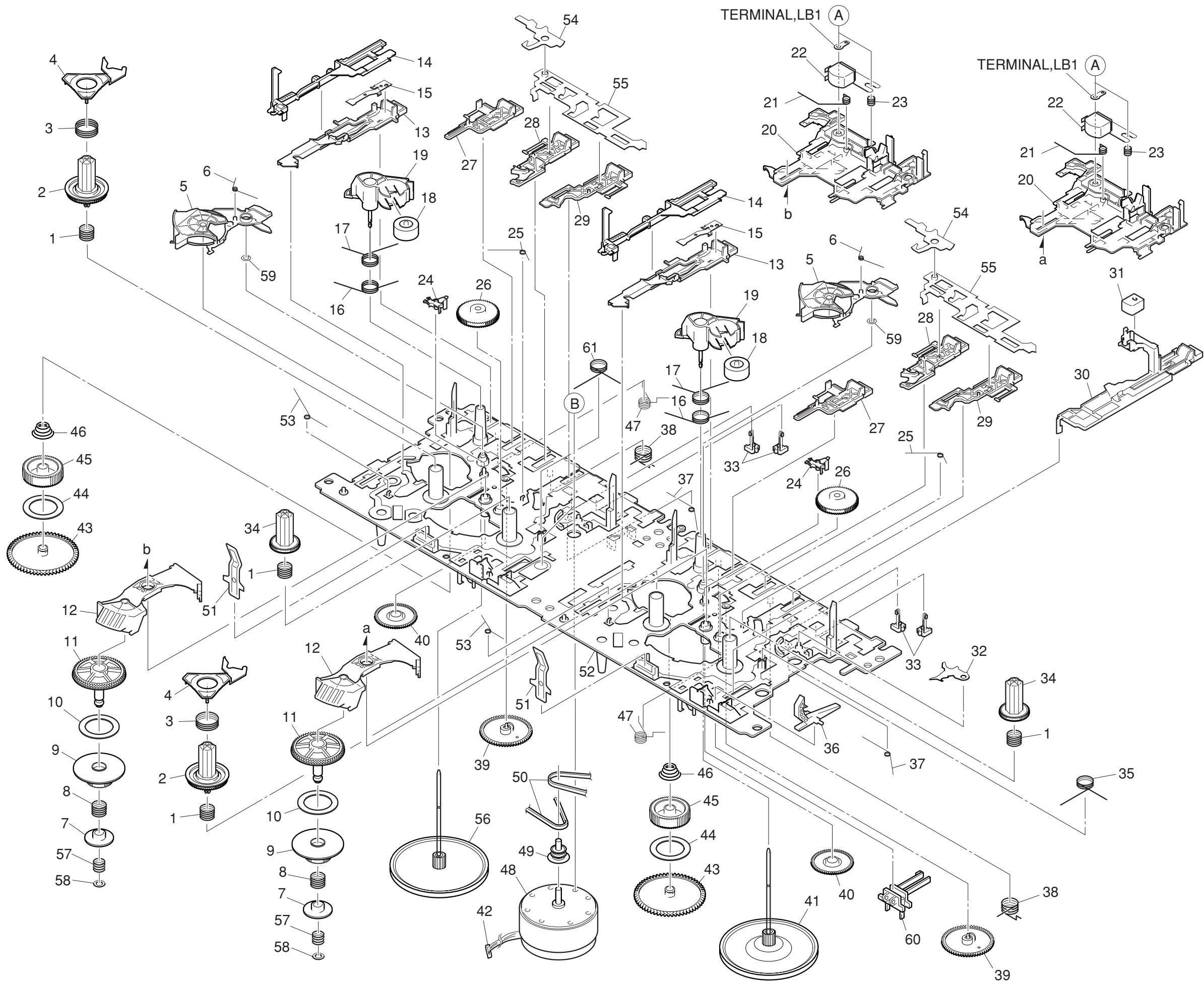


MECHANICAL PARTS LIST 1 / 1

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	8A-NED-005-010		WINDOW, CASS 1	26	8A-NED-201-010		HLDR, TOP L
2	8A-NED-006-010		WINDOW, CASS 2	27	8A-NED-202-010		HLDR, TOP R
3	82-NF7-218-010		SPR-T, CASS	28	8A-NEC-013-010		PANEL, LEFT
4	8A-NED-002-010		BOX, CASS 1	29	8A-NED-025-010		CABI, REAR LHSC1NC1
5	8A-NED-003-010		BOX, CASS 2	30	8A-NEC-201-110		HLDR, PT
6	8A-NED-034-010		WINDOW, DISPLAY CCE	31	8A-NEC-014-010		PANEL, RIGHT
7	86-NFZ-231-010		DMPR, 70	△ 32	87-A80-157-010		AC CORD ASSY, E BLK CC
8	8A-NED-001-110		CABI, FR	33	8A-NEC-205-010		CABI, BOTTOM
9	8A-NED-007-010		KEY, POWER	A	87-253-033-110		SCREW, U+2-4
10	8A-NED-009-010		KEY, PLAY	B	87-067-703-010		TAPPING SCREW, BVT2+3-10
11	8A-NED-008-010		KEY, UP/DOWN	C	87-067-641-010		UTT2+3-8 (W/O SLOT) BL
12	8A-NED-010-110		KEY, CASS 1	D	87-571-092-410		TAPPING SCREW, VIT+3-4
13	8A-NED-011-010		KEY, CASS 2	E	87-078-191-010		S-SCREW, IT+4-10
14	8A-NFA-208-010		GUIDE, FL 100-25 ANFA	F	87-067-001-010		S-SCREW, BVWST2+3-12 W/O SLOT
15	8A-NEC-206-010		HLDR, DECK	G	87-NF4-224-010		S-SCREW, IT3B+3-8 CU
16	87-NF8-220-010		DMPR, 150	H	8A-NED-204-010		S-SCREW, MECH M3
17	88-CH6-019-110		PANEL, CD	I	87-067-579-010		TAPPING SCREW, BVT2+3-8
18	8A-NED-012-210		PANEL, TOP	34	88-CH6-220-110		CUSH, CD A
19	8A-NED-203-110		SPR, LID	35	8A-NED-209-010		CUSH, W5-8-1.5
20	87-036-389-010		SW, PUSH LOCK				
21	8A-NED-033-110		LID, ASSY CD				
22	84-CT5-209-010		PLATE, MAGNET				
23	87-036-368-010		MAGNET				
24	88-CD9-210-210		BASE, CHUCK				
25	88-CD9-211-210		RING, CHUCK				

COLOR NAME TABLE

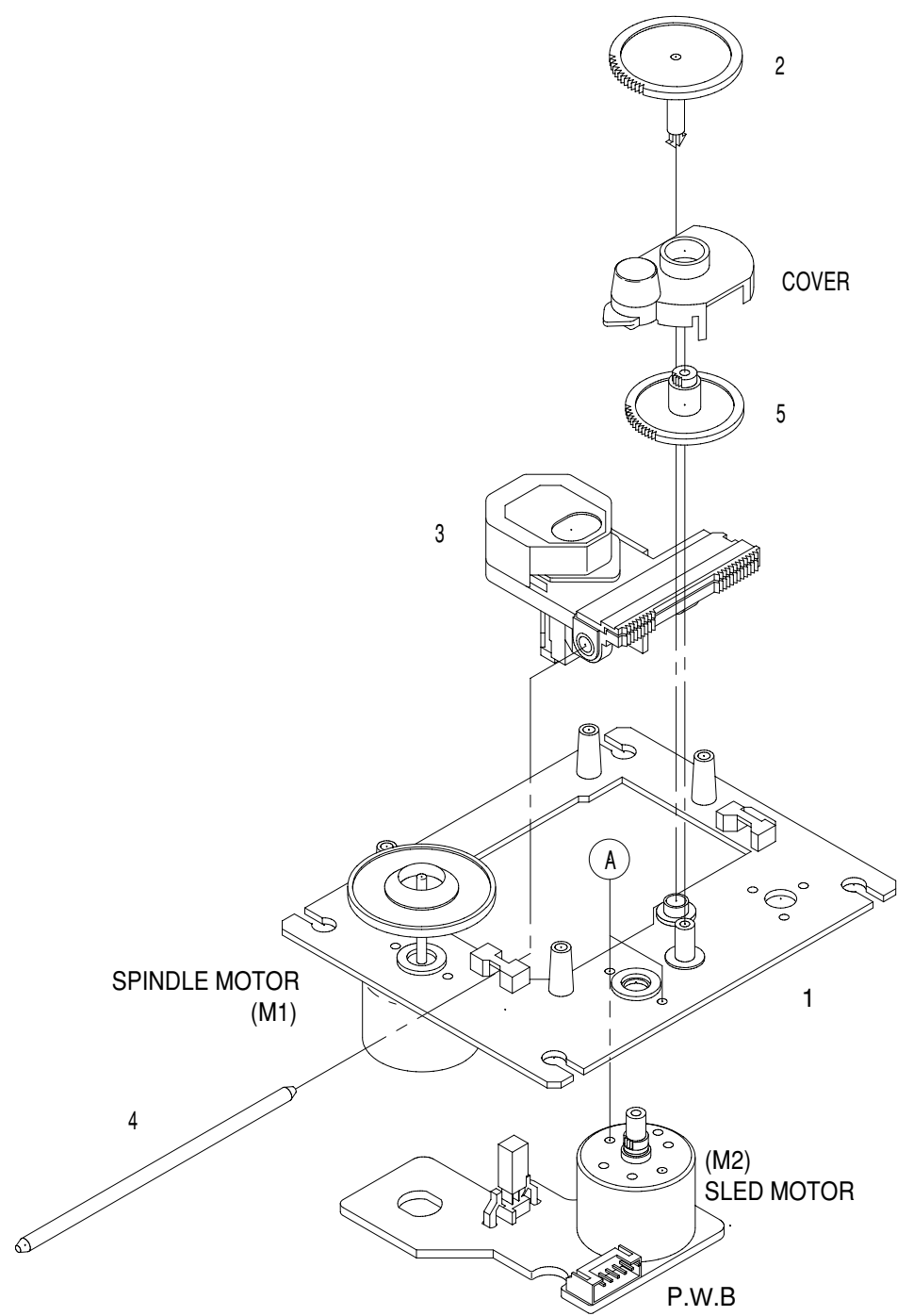
Basic color symbol	Color	Basic color symbol	Color	Basic color symbol	Color
B	Black	C	Cream	D	Orange
G	Green	H	Gray	L	Blue
LT	Transparent Blue	N	Gold	P	Pink
R	Red	S	Silver	ST	Titan Silver
T	Brown	V	Violet	W	White
WT	Transparent White	Y	Yellow	YT	Transparent Yellow
LM	Metallic Blue	LL	Light Blue	GT	Transparent Green
LD	Dark Blue	DT	Transparent Orange	GM	Metallic Green
YM	Metallic Yellow	DM	Metallic Orange	PT	Transparent Pink
LA	Aqua Blue	GL	Light Green		



TAPE MECHANISM PARTS LIST 1 / 1

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	8Z-ZM1-254-310		SPR-C, REEL R	36	8Z-ZM1-220-110		LEVER, REC SENSOR
2	8Z-ZM1-225-110		GEAR, REEL R	37	8Z-ZM1-249-210		SPR-T, FR
3	8Z-ZM1-253-210		SPR-C, AUTO SENSOR	38	8Z-ZM1-242-310		SPR-T, FF/REW
4	8Z-ZM1-217-110		LEVER, AUTO SENSOR	39	8Z-ZM3-244-110		GEAR, CAM TD20
5	8Z-ZM1-212-210		LEVER, T-UP	40	8Z-ZM1-232-010		GEAR, IDL FF/REW
6	8Z-ZM1-245-310		SPR-T, AUTO	41	8Z-ZM1-290-010		FLY-WHL ASSY, ZZM-1
7	8Z-ZM1-236-010		CLR, SLIP FF/REW	42	8Z-ZM2-601-010		CONN ASSY, 9P ZZM-2
8	8Z-ZM1-252-110		SPR-C, FF/REW	43	8Z-ZM1-228-010		GEAR, SLIP T-UP B
9	8Z-ZM2-213-010		GEAR, SLIP FR A ZZM-2	44	8Z-ZM1-265-010		FELT, T-UP
10	8Z-ZM1-269-010		FELT, FF/REW 2	45	8Z-ZM1-227-010		GEAR, SLIP T-UP A
11	8Z-ZM1-238-110		GEAR, SLIP FF/REW B 2	46	8Z-ZM1-251-210		SPR-C, T-UP SLIP
12	8Z-ZM1-237-110		LEVER, FF/REW 2	47	8Z-ZM1-243-310		SPR-T, STOP/PAUSE
13	8Z-ZM1-209-510		LEVER, PAUSE	48	87-A91-532-010		MOT, MS15U2LW1A
14	8Z-ZM1-218-210		LEVER, E-LOCK H	49	8Z-ZM1-235-010		PULLEY, MOT
15	8Z-ZM1-256-010		SPR-P, PAUSE	50	8Z-ZM2-216-010		BELT, MAIN M
16	8Z-ZM1-244-110		SPR-T, T-UP	51	8Z-ZM1-260-010		SPR-P, CASSETTE
17	8Z-ZM1-247-310		SPR-T, PINCH	52	8Z-ZM2-201-510		CHAS ASSY, ZZM-2
18	8Z-ZM1-261-110		ROLLER ASSY, PINCH	53	8Z-ZM1-255-310		SPR-T, E-LOCK
19	8Z-ZM1-221-210		LEVER, PINCH	54	8Z-ZM2-219-010		LEVER, E-OPEN ZZM-2
20	8Z-ZM1-205-310		LEVER, PLAY	55	8Z-ZM1-214-310		LEVER, LOCK
21	8Z-ZM1-248-210		SPR-T, BRG	56	8Z-ZM2-230-010		FLY-WHL ASSY, ZZM-2
22	87-A90-403-110		HEAD, RPH MS15R	57	8Z-ZM1-257-110		SPR-C, F/R
23	84-ZM2-227-310		SPR-C, AZIMUTH	58	8Z-ZM1-275-010		W-L, 1.47-4-0.25
24	8Z-ZM1-216-110		LEVER, AUTO	59	87-B10-301-010		W-L, 1.63-3.2-0.5 SLIT
25	8Z-ZM1-246-110		SPR-T, AUTO 2	60	87-A91-494-010		SW, LEAF MSW17820
26	8Z-ZM2-214-110		GEAR, IDL REW ZZM-2	61	8Z-ZM1-241-010		SPR-T, PLAY
27	8Z-ZM2-212-010		LEVER, STOP ZZM-2	A	84-ZM2-242-010		S-SCREW, AZ1-2-6.4
28	8Z-ZM1-207-010		LEVER, FF	B	8Z-ZM2-220-110		V+2.6 ZZM-2
29	8Z-ZM1-206-010		LEVER, REW				
30	8Z-ZM1-210-010		LEVER, REC				
31	87-A90-404-010		HEAD, EH LE15B				
32	8Z-ZM2-218-010		LEVER, REC LOCK ZZM-2				
33	87-A91-492-010		SW, LEAF MSW18560				
34	8Z-ZM1-226-010		GEAR, REEL L				
35	8Z-ZM1-241-210		SPR-T, PLAY				

CD MECHANISM EXPLODED VIEW 1 / 1



CD MECHANISM PARTS LIST 1 / 1

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	9X-262-620-210		MOTOR CHASSIS ASSY
2	92-626-907-010		GEAR (A)
3	87-A90-468-010		PICK UP KSS-213C
4	92-626-908-010		SHAFT SLED
5	92-627-003-020		GEAR (B) (RP)
A	97-621-255-150		SCREW+P2-3