

SERVICE MANUAL

COMPACT DISC STEREO
SYSTEM

BASIC TAPE MECHANISM : 2ZM-3MK2 PR4NM
BASIC CD MECHANISM : 4ZG-1 VORS1RND5M

This Service Manual is the "Revision Publishing" and replaces "Simple Manual"
(S/M Code No. 09-994-413-7T1).

SYSTEM	CD-CASSEIVER	SPEAKER
NSX-K980	CX-NK980	SX-WNS999

If requiring information about the CD mechanism, see Service Manual of 4ZG-1, S/M
Code No.09-992-325-4N8.

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SPECIFICATIONS

Main unit CX-NK980

FM tuner section

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

MW tuner section

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

SW tuner section

Tuning range	5.900 MHz to 17.900 MHz
Antenna	Wire antenna

Amplifier section

Mid-high frequency amplifier

Power output	Rated: 32 W + 32 W (6 ohms, T.H.D. 1%, 1 kHz) Reference: 40 W + 40 W (6 ohms, T.H.D. 10%, 1kHz)
Total harmonic distortion	0.1 % (15 W, 1 kHz, 6 ohms, DIN AUDIO)

Low frequency amplifier

Power output	Rated: 125 W + 125 W (6 ohms, T.H.D. 1%, 70 Hz) Reference: 155 W + 155 W (6 ohms, T.H.D. 10%, 70 Hz)
Total harmonic distortion	0.1 % (70 W, 70 Hz, 6 ohms, DIN AUDIO)

Inputs

VIDEO/AUX: 316 mV (adjustable)
MD: 316 mV (adjustable)

Outputs

MIC 1, MIC 2: 1.0 mV (10 k ohms)
VIDEO OUT: 1.0Vp-p (75 ohms)
SPEAKERS HIGH FREQ:
accept speakers of 6 ohms or more
SPEAKERS LOW FREQ:
accept speakers of 6 ohms or more
SURROUND SPEAKERS:
accept speakers of 8 ohms to 16 ohms
LINE OUT: 150 mV
PHONES (stereo jack): accepts headphones of 32 ohms or more

Cassette deck section

Track format	4 tracks, 2 channels stereo
Frequency response	CrO ₂ tape: 50 Hz – 16000 Hz Normal tape: 50 Hz – 15000 Hz
Recording system	AC bias
Heads	Deck 1: Playback head $\times$ 1 Deck 2: Recording/playback head $\times$ 1, erase head $\times$ 1

Compact disc player section

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

Video signal	NTSC/PAL color format (selectable)
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Video data	MPEG 1
Audio data	MPEG 1, LAYER 2

General

Power requirements	120 V/220 – 230 V/240 V AC, switchable, 50/60 Hz
Power consumption	240 W
Dimensions of main unit (W $\times$ H $\times$ D)	260 $\times$ 324 $\times$ 340 mm
Weight of main unit	11 kg
Standby power consumption	With power-economizing mode off: 33 W With power-economizing mode on: 1.5 W

Speaker system SX-WNS999

Cabinet type	4 way, built-in subwoofer (magnetic shielded type)
Speakers	Subwoofer: 200 mm cone type Woofer: 120 mm cone type Tweeter: 60 mm cone type Super tweeter: 20 mm ceramic type
Impedance	6 ohms/6 ohms
Output sound pressure level	87 dB/W/m
Dimensions (W $\times$ H $\times$ D)	240 $\times$ 354 $\times$ 319 mm
Weight	6.5 kg

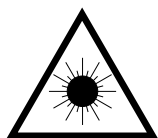
- Design and specifications are subject to change without notice.
- Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation. "DOLBY" and the double-D symbol  are trademarks of Dolby Laboratories Licensing Corporation.
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PROTECTION 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 mainituilla 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

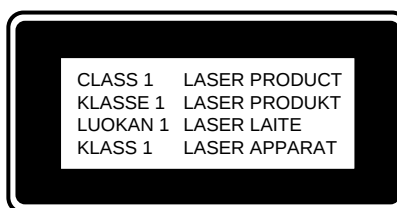
L'utilisation de commandes, réglages ou procédures autres que ceux spécifiés peut entraîner une dangereuse exposition aux radiations.

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.



ELECTRICAL MAIN PARTS LIST

DESCRIPTIONで判断できない物は "REFERENCE NAME LIST" を参照してください。
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					87-020-331-080		CHIP-DIODE,DAN202K
	87-020-454-010	IC, DN 6851			87-017-932-080		ZENER, MTJ6.2B
	82-NF7-605-010	C-IC, LC876572W-****			87-070-136-080		ZENER, MTZJ5.1B
	87-A20-951-010	IC, TSOP1838RF1			87-A40-274-010		DIODE, FMB-G16L
	87-A20-355-010	IC, CXA1553P			87-A40-002-080		ZENER, MTZJ5.1C
	87-A20-783-040	C-IC, BA7762AFS			87-A40-438-080		ZENER, MTZJ4.7A
	87-A21-023-040	C-IC, BA3835F			87-A40-234-080		ZENER, MTZJ5.6A
	87-A21-022-040	C-IC, BA3880FS			87-017-931-080		ZENER, MTZJ5.6B
	87-A21-021-040	C-IC, BU2099FV			87-017-149-080		ZENER, HZS6A2L
	87-A21-031-040	C-IC, BU4551BF			87-A40-618-080		VARI-CAP, SVC 348(S/T)
	87-A20-561-040	C-IC, M65847AFP					
	87-A21-202-040	C-IC, M62445AFP		MAIN C.B			
	87-A20-613-040	C-IC, BU9262AFS		C1	87-012-369-080		C-CAP, S 0.047-50F
	87-A21-051-040	C-IC, BU9990-03FS		C2	87-012-369-080		C-CAP, S 0.047-50F
	87-A20-869-040	C-IC, M62449FP		C3	87-A11-148-080		CAP, TC U 0.1-50 Z F
	87-070-127-110	IC, LC72131 D		C4	87-012-368-080		C-CAP, S 0.1-50 F
	87-A20-913-010	IC, LA1837NL		C5	87-012-368-080		C-CAP, S 0.1-50 F
	87-A20-440-040	C-IC, BU1920FS		C6	87-012-368-080		C-CAP, S 0.1-50 F
	87-070-060-040	IC, TA2040AF		C9	87-016-658-090		CAP, E 4700-35 SMG
TRANSISTOR				C10	87-016-658-090		CAP, E 4700-35 SMG
	87-026-463-080	TR, 2SA933S		C21	87-010-385-080		CAP, ELECT 220-25V
	87-026-609-080	TR, KTA1266GR		C22	87-010-385-080		CAP, ELECT 220-25V
	87-026-610-080	TR, KTC3198GR		C23	87-010-385-080		CAP, ELECT 220-25V
	87-A30-076-080	C-TR, 2SC3052F		C24	87-010-385-080		CAP, ELECT 220-25V
	87-A30-075-080	C-TR, 2SA1235F		C25	87-010-430-080		CAP, ELECT 100-63
	87-A30-234-080	TR, CSC4115BC		C26	87-010-263-080		CAP, ELECT 100-10V
	87-026-245-080	TR, DTC114ES		C27	87-010-197-080		CAP, CHIP 0.01 DM
	87-A30-198-080	TR, KTC3199GR		C29	87-010-247-080		CAP, ELECT 100-50V
	87-A30-255-010	TR, 2SB1342		C30	87-010-381-080		CAP, ELECT 330-16V
	87-A30-087-080	C-FET, 2SK2158		C31	87-010-235-080		CAP, E 470-16 SME
	87-A30-257-080	C-TR, 2SD1306E		C61	87-010-260-080		CAP, ELECT 47-25V
	89-213-702-010	TR, 2SB1370 (1.8W)		C62	87-010-496-080		CAP, E 3.3-50 5L
	87-A30-073-080	C-TR, RT1N 141C		C91	87-010-401-080		CAP, ELECT 1-50V
	87-A30-268-040	C-TR, 2SA1514K(S)		C92	87-010-263-080		CAP, ELECT 100-10V
	87-A30-190-080	TR, CC5551		C93	87-010-380-080		CAP, ELECT 47-16V
	87-A30-098-010	TR, FP 1016		C101	87-010-178-080		CHIP CAP 1000P
	87-A30-097-010	TR, FN 1016		C102	87-010-178-080		CHIP CAP 1000P
	87-A30-106-070	C-TR, CMBT5551		C125	87-012-368-080		C-CAP, S 0.1-50 F
	87-A30-105-080	C-TR, RT1P 441C		C126	87-012-368-080		C-CAP, S 0.1-50 F
	87-A30-086-040	C-TR, CSD1306E		C127	87-012-368-080		C-CAP, S 0.1-50 F
	87-A30-159-080	C-TR, KTA1298Y		C128	87-012-368-080		C-CAP, S 0.1-50 F
	87-A30-202-080	C-TR, RT1P441C		C131	87-010-197-080		CAP, CHIP 0.01 DM
	87-A30-214-010	TR, 2SB1344		C132	87-010-197-080		CAP, CHIP 0.01 DM
	87-A30-215-010	TR, 2SD2025		C133	87-010-197-080		CAP, CHIP 0.01 DM
	87-A30-119-080	C-TR, 2SC3906K R		C134	87-010-406-080		CAP, ELECT 22-50
	87-A30-186-010	FET, 2SK3053		C203	87-010-176-080		C-CAP, S 680P-50 SL
	87-A30-072-080	C-TR, RT1P 144C		C204	87-010-176-080		C-CAP, S 680P-50 SL
	87-A30-074-080	C-TR, RT1P 141C		C229	87-010-993-080		C-CAP, S 0.056-25 B
	87-A30-142-040	C-TR, DTA123EKA		C230	87-010-993-080		C-CAP, S 0.056-25 B
	87-A30-200-080	TR, 2SA1585SR		C231	87-010-196-080		CHIP CAPACITOR, 0.1-25
	89-327-143-080	TR, 2SC2714 (0.1W)		C232	87-010-196-080		CHIP CAPACITOR, 0.1-25
	87-026-226-080	CHIP-TR, DTA143EK		C235	87-016-285-080		CAP, E 47-100SME
	87-A30-086-070	C-TR, CSD1306E		C236	87-016-285-080		CAP, E 47-100SME
	89-503-602-080	C-FET, 2SK360E		C239	87-010-196-080		CHIP CAPACITOR, 0.1-25
	89-505-434-540	C-FET, 2SK543(4/5)		C251	87-010-402-080		CAP, ELECT 2.2-50V
DIODE				C252	87-010-183-080		C-CAP, S 2700P-50 B
	87-020-465-080	DIODE, 1SS133 (110MA)		C260	87-010-186-080		CAP, CHIP 4700P
	87-A40-549-090	DIODE, RBA-1002		C301	87-010-318-080		C-CAP, S 47P-50 CH
	87-070-274-080	DIODE, 1N4003 SEM		C302	87-010-318-080		C-CAP, S 47P-50 CH
	87-A40-341-080	ZENER, MTZJ 36 A		C303	87-012-157-080		C-CAP, S 330P-50 CH
	87-A40-345-080	ZENER, MTZJ10C		C304	87-012-157-080		C-CAP, S 330P-50 CH
	87-A40-270-080	C-DIODE, MC2838		C305	87-012-145-080		CAP, CHIP S 270P CH
	87-A40-269-080	C-DIODE, MC2836		C306	87-012-145-080		CAP, CHIP S 270P CH
	87-A40-004-080	ZENER, MTZJ16A		C307	87-010-196-080		CHIP CAPACITOR, 0.1-25
	87-A40-509-080	ZENER, MTZJ6.8C		C311	87-010-198-080		CAP, CHIP 0.022
	87-A40-488-080	DIODE, 1SS244		C312	87-010-198-080		CAP, CHIP 0.022
				C313	87-010-181-080		CAP, CHIP S 1800P
				C314	87-010-181-080		CAP, CHIP S 1800P
				C315	87-010-178-080		CHIP CAP 1000P

REF. NO	PART NO.	KANRI NO.	DESCRIPTION	REF. NO	PART NO.	KANRI NO.	DESCRIPTION
C316	87-010-178-080		CHIP CAP 1000P	C456	87-010-546-080		CAP, ELECT 0.33-50V
C317	87-012-142-080		CAP, S 0.33-16	C457	87-010-196-080		CHIP CAPACITOR,0.1-25
C318	87-012-142-080		CAP, S 0.33-16	C458	87-010-196-080		CHIP CAPACITOR,0.1-25
C319	87-012-141-080		CHIP-CAPACITOR,0.22-16F	C459	87-A10-300-080		CAP,M 0.027-50 J
C320	87-012-141-080		CHIP-CAPACITOR,0.22-16F	C460	87-A10-300-080		CAP,M 0.027-50 J
C321	87-012-142-080		CAP, S 0.33-16	C465	87-A10-300-080		CAP,M 0.027-50 J
C322	87-012-142-080		CAP, S 0.33-16	C466	87-A10-300-080		CAP,M 0.027-50 J
C324	87-010-260-080		CAP, ELECT 47-25V	C481	87-010-178-080		CHIP CAP 1000P
C325	87-010-370-080		CAP,E 330-6.3 SME	C601	87-010-183-080		C-CAP,S 2700P-50 B
C327	87-010-404-080		CAP, ELECT 4.7-50V	C602	87-010-183-080		C-CAP,S 2700P-50 B
C328	87-010-404-080		CAP, ELECT 4.7-50V	C611	87-010-197-080		CAP, CHIP 0.01 DM
C332	87-010-196-080		CHIP CAPACITOR,0.1-25	C613	87-016-081-080		C-CAP,S 0.1-16 RK
C335	87-010-401-080		CAP, ELECT 1-50V	C614	87-016-081-080		C-CAP,S 0.1-16 RK
C336	87-010-401-080		CAP, ELECT 1-50V	C619	87-010-185-080		C-CAP,S 3900P-50 B
C337	87-010-196-080		CHIP CAPACITOR,0.1-25	C620	87-010-185-080		C-CAP,S 3900P-50 B
C339	87-010-196-080		CHIP CAPACITOR,0.1-25	C621	87-010-401-080		CAP, ELECT 1-50V
C340	87-010-196-080		CHIP CAPACITOR,0.1-25	C622	87-010-401-080		CAP, ELECT 1-50V
C351	87-012-140-080		CAP 470P	C623	87-A10-773-080		CAP,M 0.10-50 J
C352	87-012-140-080		CAP 470P	C624	87-A10-773-080		CAP,M 0.10-50 J
C354	87-010-175-080		CAP 560P	C625	87-010-401-080		CAP, ELECT 1-50V
C355	87-012-349-080		C-CAP,S 1000P-50 CH	C626	87-010-401-080		CAP, ELECT 1-50V
C356	87-010-260-080		CAP, ELECT 47-25V	C627	87-010-196-080		CHIP CAPACITOR,0.1-25
C357	87-010-197-080		CAP, CHIP 0.01 DM	C629	87-010-405-080		CAP, ELECT 10-50V
C358	87-010-183-080		C-CAP,S 2700P-50 B	C630	87-010-213-080		C-CAP,S 0.015-50 B
C359	87-010-183-080		C-CAP,S 2700P-50 B	C631	87-010-992-080		C-CAP,S 0.047-25 B
C360	87-010-183-080		C-CAP,S 2700P-50 B	C632	87-010-263-080		CAP, ELECT 100-10V
C363	87-A10-292-080		CAP,M 5600P-50 J	C633	87-010-263-080		CAP, ELECT 100-10V
C370	87-010-196-080		CHIP CAPACITOR,0.1-25	C634	87-010-196-080		CHIP CAPACITOR,0.1-25
C371	87-010-175-080		CAP 560P	C635	87-010-196-080		CHIP CAPACITOR,0.1-25
C372	87-010-175-080		CAP 560P	C636	87-010-992-080		C-CAP,S 0.047-25 B
C373	87-010-179-080		CAP,CHIP S B1200P	C637	87-010-183-080		C-CAP,S 2700P-50 B
C374	87-010-179-080		CAP,CHIP S B1200P	C640	87-010-314-080		C-CAP,S 22P-50V
C375	87-010-545-080		CAP, ELECT 0.22-50V	C641	87-010-196-080		CHIP CAPACITOR,0.1-25
C376	87-010-545-080		CAP, ELECT 0.22-50V	C677	87-010-196-080		CHIP CAPACITOR,0.1-25
C378	87-010-196-080		CHIP CAPACITOR,0.1-25	C678	87-010-196-080		CHIP CAPACITOR,0.1-25
C381	87-010-197-080		CAP, CHIP 0.01 DM	C680	87-010-196-080		CHIP CAPACITOR,0.1-25
C382	87-010-318-080		C-CAP,S 47P-50 CH	C701	87-010-263-080		CAP, ELECT 100-10V
C383	87-010-197-080		CAP, CHIP 0.01 DM	C702	87-010-196-080		CHIP CAPACITOR,0.1-25
C384	87-010-402-080		CAP, ELECT 2.2-50V	C703	87-010-319-080		C-CAP,S 56P-50 CH
C385	87-010-184-080		CHIP CAPACITOR 3300P(K)	C704	87-010-319-080		C-CAP,S 56P-50 CH
C386	87-010-196-080		CHIP CAPACITOR,0.1-25	C705	87-012-393-080		C-CAP,S 0.22-16 R K
C388	87-012-156-080		C-CAP,S 220P-50 CH	C706	87-010-197-080		CAP, CHIP 0.01 DM
C391	87-012-145-080		CAP, CHIP S 270P CH	C707	87-010-180-080		C-CER 1500P
C392	87-012-145-080		CAP, CHIP S 270P CH	C708	87-010-213-080		C-CAP,S 0.015-50 B
C393	87-012-145-080		CAP, CHIP S 270P CH	C709	87-010-213-080		C-CAP,S 0.015-50 B
C394	87-012-145-080		CAP, CHIP S 270P CH	C710	87-010-197-080		CAP, CHIP 0.01 DM
C401	87-010-196-080		CHIP CAPACITOR,0.1-25	C711	87-010-181-080		CAP,CHIP S 1800P
C402	87-010-260-080		CAP, ELECT 47-25V	C712	87-010-196-080		CHIP CAPACITOR,0.1-25
C403	87-010-404-080		CAP, ELECT 4.7-50V	C713	87-010-544-080		CAP, ELECT 0.1-50V
C404	87-010-404-080		CAP, ELECT 4.7-50V	C714	87-010-374-080		CAP, ELECT 47-10V
C405	87-010-404-080		CAP, ELECT 4.7-50V	C715	87-010-494-080		CAP ELECT GAS 1/50
C406	87-010-404-080		CAP, ELECT 4.7-50V	C716	87-010-494-080		CAP ELECT GAS 1/50
C407	87-010-188-080		CAP,CHIP 6800P	C717	87-010-183-080		C-CAP,S 2700P-50 B
C408	87-010-188-080		CAP,CHIP 6800P	C718	87-010-183-080		C-CAP,S 2700P-50 B
C409	87-012-140-080		CAP 470P	C731	87-010-560-080		CAP,E 10-50 GAS
C410	87-012-140-080		CAP 470P	C732	87-010-196-080		CHIP CAPACITOR,0.1-25
C411	87-010-404-080		CAP, ELECT 4.7-50V	C733	87-010-196-080		CHIP CAPACITOR,0.1-25
C412	87-010-404-080		CAP, ELECT 4.7-50V	C734	87-012-156-080		C-CAP,S 220P-50 CH
C413	87-010-404-080		CAP, ELECT 4.7-50V	C735	87-010-178-080		CHIP CAP 1000P
C414	87-010-404-080		CAP, ELECT 4.7-50V	C736	87-010-196-080		CHIP CAPACITOR,0.1-25
C415	87-010-197-080		CAP, CHIP 0.01 DM	C738	87-010-318-080		C-CAP,S 47P-50 CH
C416	87-010-197-080		CAP, CHIP 0.01 DM	C741	87-010-178-080		CHIP CAP 1000P
C417	87-010-956-080		CHIP-CAP,S 0.068-25B	CN1	87-A60-739-010		CONN,13P JL-BT
C418	87-010-956-080		CHIP-CAP,S 0.068-25B	CN91	87-A60-109-010		CONN,2P V S2M-2W
C419	87-010-260-080		CAP, ELECT 47-25V	CN201	87-A60-739-010		CONN,13P JL-BT
C451	87-010-401-080		CAP, ELECT 1-50V	CN301	87-099-827-010		CONN,3P S2M-3W
C452	87-010-401-080		CAP, ELECT 1-50V	CN351	87-099-832-010		CONN,8P S2M-8W
C453	87-010-545-080		CAP, ELECT 0.22-50V	CN502	87-099-566-010		CONN,7P TUC-P7P-B1
C454	87-010-545-080		CAP, ELECT 0.22-50V	CN601	87-099-719-010		CONN,30P TYK-B(X)
C455	87-010-546-080		CAP, ELECT 0.33-50V	CN602	87-A60-131-010		CONN,6P V FE

REF. NO	PART NO.	KANRI NO.	DESCRIPTION	REF. NO	PART NO.	KANRI NO.	DESCRIPTION
CN604	87-099-570-010		CONN, 13P TUC-P13P-B1	C384	87-010-196-080		CHIP CAPACITOR, 0.1-25
CN901	87-099-568-010		CONN, 11P TUC-P11P-B1	C385	87-010-196-080		CHIP CAPACITOR, 0.1-25
CNA1	8Z-NF8-669-010		CONN ASSY, 9P VH	C386	87-010-196-080		CHIP CAPACITOR, 0.1-25
FB16	87-008-372-080		FILTER, EMI BL OIRNI	C387	87-010-196-080		CHIP CAPACITOR, 0.1-25
FB703	87-008-372-080		FILTER, EMI BL OIRNI	C401	87-010-196-080		CHIP CAPACITOR, 0.1-25
J201	87-A60-483-010		JACK, DIA6.3 BLK ST W/S KM	C402	87-010-196-080		CHIP CAPACITOR, 0.1-25
J203	87-033-240-010		TERMINAL, SP 4P32SV1-05	C403	87-010-319-080		C-CAP, S 56P-50 CH
J204	87-A60-750-010		JACK, PIN 4P R/W BLUE	C404	87-010-319-080		C-CAP, S 56P-50 CH
J601	87-A60-402-010		JACK, PIN 6P R/W HSP-246V30	C405	87-010-319-080		C-CAP, S 56P-50 CH
L101	87-003-383-010		COIL, 1UH-S	C406	87-010-322-080		C-CAP, S 100P-50 CH
L102	87-003-383-010		COIL, 1UH-S	C407	87-010-322-080		C-CAP, S 100P-50 CH
L201	87-003-383-010		COIL, 1UH-S	C408	87-010-322-080		C-CAP, S 100P-50 CH
L202	87-003-383-010		COIL, 1UH-S	C601	87-010-186-080		CAP, CHIP 4700P
L301	87-A50-049-010		COIL, TRAP 85K(COI)	C602	87-010-405-040		CAP, E 10-50
L302	87-A50-049-010		COIL, TRAP 85K(COI)	C603	87-010-320-080		CHIP CAP 68P
L351	87-007-342-010		COIL, OSC 85K BIAS	C604	87-010-546-040		CAP, E 0.33-50
L701	87-005-448-080		COIL 220UH, K	C605	87-010-196-080		CHIP CAPACITOR, 0.1-25
R143	87-A00-440-050		RES, 220-1/2W J RP	C606	87-010-112-040		CAP, E 100-16
R144	87-A00-440-050		RES, 220-1/2W J RP	C607	87-010-196-080		CHIP CAPACITOR, 0.1-25
R145	87-A00-440-050		RES, 220-1/2W J RP	C652	87-010-183-080		C-CAP, S 2700P-50 B
R146	87-A00-440-050		RES, 220-1/2W J RP	C653	87-010-213-080		C-CAP, S 0.015-50 B
RY201	87-045-382-010		RELAY, OUAZ-SH-112L	C701	87-018-209-080		CAP, CER 0.1-50V
SFR301	87-A90-557-080		SFR, 33K H HOKU	C801	87-012-156-080		C-CAP, S 220P-50 CH
SFR302	87-A90-557-080		SFR, 33K H HOKU	C802	87-010-176-080		C-CAP, S 680P-50 SL
SFR303	87-A90-557-080		SFR, 33K H HOKU	C803	87-010-187-080		CAP CHIP S5600P
SFR304	87-A90-557-080		SFR, 33K H HOKU	C804	87-010-213-080		C-CAP, S 0.015-50 B
SFR305	87-A90-433-080		SFR, 50K H NVZ6TLTA	C805	87-010-196-080		CHIP CAPACITOR, 0.1-25
SFR306	87-A90-433-080		SFR, 50K H NVZ6TLTA	C806	87-010-401-040		CAP, E 1-50 SME
SFR351	87-A90-433-080		SFR, 50K H NVZ6TLTA	C807	87-010-196-080		CHIP CAPACITOR, 0.1-25
SFR352	87-A90-433-080		SFR, 50K H NVZ6TLTA	C809	87-012-155-080		C-CAP 180P-50CH
WH1	87-A90-510-010		HLDR, WIRE 2.5-9P	C810	87-010-263-040		CAP, E 100-10
FRONT C.B				C811	87-010-382-040		CAP, E 22-25 SME
C103	87-010-178-080		CHIP CAP 1000P	C812	87-010-560-040		CAP, E 10-50 GAS
C105	87-010-316-080		C-CAP, S 33P-50 CH	CN101	87-099-720-010		CONN, 30P TYK-B(P)
C106	87-010-154-080		CAP CHIP 10P	CN104	87-A60-140-010		CONN, 15P V FE
C107	87-012-157-080		C-CAP, S 330P-50 CH	CN301	87-A60-131-010		CONN, 6P V FE
C108	87-010-560-040		CAP, E 10-50 GAS	CN302	87-A60-131-010		CONN, 6P V FE
C112	87-016-081-080		C-CAP, S 0.1-16 RK	CN901	87-A60-138-010		CONN, 13P V FE
C113	87-A11-242-040		CAP, E 220-10 M 5L SRM	FB601	87-A50-190-080		C-COIL, S BLM21A102S
C114	87-010-196-080		CHIP CAPACITOR, 0.1-25	FL201	8Z-NF5-611-010		FL, BJ686GK-ZNF5
C115	87-010-198-080		CAP, CHIP 0.022	J601	87-A60-651-010		JACK, 3.5MONO
C116	87-010-493-040		CAP, E 0.47-50 GAS	J602	87-A60-651-010		JACK, 3.5MONO
C117	87-010-498-040		CAP, E 10-16 GAS	L101	87-A50-333-010		COIL, OSC 9.43MHZ
C118	87-A11-242-040		CAP, E 220-10 M 5L SRM	L801	87-A50-093-010		COIL, CLOCK 5.76MHZ
C121	87-012-368-080		C-CAP, S 0.1-50 F	L802	87-005-847-080		COIL, 2.2UH(CECS)
C122	87-010-178-080		CHIP CAP 1000P	LED293	87-A40-589-040		LED, SLR-56VCT31 RED
C123	87-010-196-080		CHIP CAPACITOR, 0.1-25	LED401	87-A40-608-040		LED, SLV-312VC RED
C124	87-010-196-080		CHIP CAPACITOR, 0.1-25	LED402	87-A40-608-040		LED, SLV-312VC RED
C125	87-010-196-080		CHIP CAPACITOR, 0.1-25	LED403	87-A40-608-040		LED, SLV-312VC RED
C126	87-010-196-080		CHIP CAPACITOR, 0.1-25	LED404	87-A40-608-040		LED, SLV-312VC RED
C151	87-012-369-080		C-CAP, S 0.047-50F	LED405	87-A40-608-040		LED, SLV-312VC RED
C153	87-010-196-080		CHIP CAPACITOR, 0.1-25	LED406	87-A40-619-040		LED, SLR-56PT-T31-W GRN
C154	87-010-264-040		CAP, E 100-10 5L	LED407	87-A40-619-040		LED, SLR-56PT-T31-W GRN
C181	87-012-157-080		C-CAP, S 330P-50 CH	LED408	87-A40-619-040		LED, SLR-56PT-T31-W GRN
C185	87-010-197-080		CAP, CHIP 0.01 DM	LED409	87-A40-619-040		LED, SLR-56PT-T31-W GRN
C186	87-010-182-080		C-CAP, S 2200P-50 B	LED410	87-A40-619-040		LED, SLR-56PT-T31-W GRN
C202	87-010-177-080		C-CAP, S 820P-50 SL	LED411	87-A40-619-040		LED, SLR-56PT-T31-W GRN
C211	87-012-157-080		C-CAP, S 330P-50 CH	LED412	87-A40-619-040		LED, SLR-56PT-T31-W GRN
C213	87-012-157-080		C-CAP, S 330P-50 CH	LED413	87-A40-619-040		LED, SLR-56PT-T31-W GRN
C214	87-012-157-080		C-CAP, S 330P-50 CH	LED414	87-A40-619-040		LED, SLR-56PT-T31-W GRN
C221	87-010-421-040		CAP, E 4.7-50 5L	LED415	87-A40-619-040		LED, SLR-56PT-T31-W GRN
C222	87-010-421-040		CAP, E 4.7-50 5L	LED416	87-A40-619-080		LED, SLR-56PT-TE7-W GRN
C223	87-010-408-040		CAP, E 47-50 SME	LED417	87-A40-619-080		LED, SLR-56PT-TE7-W GRN
C224	87-012-369-080		C-CAP, S 0.047-50F	LED418	87-A40-619-080		LED, SLR-56PT-TE7-W GRN
C381	87-010-196-080		CHIP CAPACITOR, 0.1-25	LED419	87-A40-619-080		LED, SLR-56PT-TE7-W GRN
C382	87-012-158-080		C-CAP, S 390P-50 CH	LED420	87-A40-619-080		LED, SLR-56PT-TE7-W GRN
C383	87-010-196-080		CHIP CAPACITOR, 0.1-25	LED421	87-A40-619-080		LED, SLR-56PT-TE7-W GRN
				LED433	87-A40-563-010		LED, SEL6515C-LF62 PGRN
				LED434	87-A40-563-010		LED, SEL6515C-LF62 PGRN
				LED435	87-A40-563-010		LED, SEL6515C-LF62 PGRN

REF. NO	PART NO.	KANRI NO.	DESCRIPTION	REF. NO	PART NO.	KANRI NO.	DESCRIPTION
LED436	87-A40-563-010	LED, SEL6515C-LF62	PGRN	LED465	87-A40-609-040	LED, SLV-312MC	PG
LED453	87-A40-619-040	LED, SLR-56PT-T31-W	GRN	LED466	87-A40-609-040	LED, SLV-312MC	PG
LED454	87-A40-619-040	LED, SLR-56PT-T31-W	GRN	LED467	87-A40-609-040	LED, SLV-312MC	PG
LED455	87-A40-619-040	LED, SLR-56PT-T31-W	GRN	LED468	87-A40-609-040	LED, SLV-312MC	PG
LED456	87-A40-619-040	LED, SLR-56PT-T31-W	GRN	LED470	87-A40-608-040	LED, SLV-312VC	RED
LED457	87-A40-619-040	LED, SLR-56PT-T31-W	GRN	LED471	87-A40-609-040	LED, SLV-312MC	PG
LED458	87-A40-619-040	LED, SLR-56PT-T31-W	GRN	LED472	87-A40-608-040	LED, SLV-312VC	RED
LED459	87-A40-619-040	LED, SLR-56PT-T31-W	GRN	LED473	87-A40-609-040	LED, SLV-312MC	PG
LED460	87-A40-619-040	LED, SLR-56PT-T31-W	GRN	LED474	87-A40-608-040	LED, SLV-312VC	RED
LED461	87-A40-564-010	LED, SEL6215S-LF62	RED	LED475	87-A40-609-040	LED, SLV-312MC	PG
LED462	87-A40-564-010	LED, SEL6215S-LF62	RED	S347	87-A91-024-080	SW, TACT	KSH0611BT
LED463	87-A40-619-040	LED, SLR-56PT-T31-W	GRN	S348	87-A91-024-080	SW, TACT	KSH0611BT
LED464	87-A40-619-040	LED, SLR-56PT-T31-W	GRN	S349	87-A91-024-080	SW, TACT	KSH0611BT
LED481	87-A40-619-040	LED, SLR-56PT-T31-W	GRN	S350	87-A91-024-080	SW, TACT	KSH0611BT
LED482	87-A40-619-040	LED, SLR-56PT-T31-W	GRN	S351	87-A91-024-080	SW, TACT	KSH0611BT
LED483	87-A40-619-040	LED, SLR-56PT-T31-W	GRN	S352	87-A91-024-080	SW, TACT	KSH0611BT
LED484	87-A40-619-040	LED, SLR-56PT-T31-W	GRN	S353	87-A91-024-080	SW, TACT	KSH0611BT
LED485	87-A40-619-040	LED, SLR-56PT-T31-W	GRN	S354	87-A91-024-080	SW, TACT	KSH0611BT
LED486	87-A40-619-040	LED, SLR-56PT-T31-W	GRN	S355	87-A91-024-080	SW, TACT	KSH0611BT
LED487	87-A40-619-040	LED, SLR-56PT-T31-W	GRN				
LED488	87-A40-619-040	LED, SLR-56PT-T31-W	GRN	5CH AMP C.B			
S101	87-A90-535-010	SW, RTRY	EC16B24304	C203	87-010-408-080	CAP, ELECT	47-50V
S102	87-A91-397-010	SW, RTRY	121SL10-12T2	C204	87-010-408-080	CAP, ELECT	47-50V
S301	87-A91-024-080	SW, TACT	KSH0611BT	C207	87-010-408-080	CAP, ELECT	47-50V
S302	87-A91-024-080	SW, TACT	KSH0611BT	C208	87-010-408-080	CAP, ELECT	47-50V
S303	87-A91-024-080	SW, TACT	KSH0611BT	C209	87-010-322-080	C-CAP, S	100P-50 CH
S304	87-A91-024-080	SW, TACT	KSH0611BT				
S305	87-A91-024-080	SW, TACT	KSH0611BT	C210	87-010-322-080	C-CAP, S	100P-50 CH
S306	87-A91-024-080	SW, TACT	KSH0611BT	C211	87-010-260-080	CAP, ELECT	47-25V
S308	87-A91-024-080	SW, TACT	KSH0611BT	C212	87-010-260-080	CAP, ELECT	47-25V
S309	87-A91-024-080	SW, TACT	KSH0611BT	C213	87-A10-812-080	C-CAP, S	220P-200 J CH
S310	87-A91-024-080	SW, TACT	KSH0611BT	C214	87-A10-812-080	C-CAP, S	220P-200 J CH
S311	87-A91-024-080	SW, TACT	KSH0611BT				
S312	87-A91-024-080	SW, TACT	KSH0611BT	C219	87-012-368-080	C-CAP, S	0.1-50 F
S313	87-A91-024-080	SW, TACT	KSH0611BT	C220	87-012-368-080	C-CAP, S	0.1-50 F
S314	87-A91-024-080	SW, TACT	KSH0611BT	C221	87-010-186-080	CAP, CHIP	4700P
S315	87-A91-024-080	SW, TACT	KSH0611BT	C222	87-010-186-080	CAP, CHIP	4700P
S321	87-A91-024-080	SW, TACT	KSH0611BT	C299	87-010-197-080	CAP, CHIP	0.01 DM
S322	87-A91-024-080	SW, TACT	KSH0611BT	C304	87-010-403-080	CAP, ELECT	3.3-50V
S323	87-A91-024-080	SW, TACT	KSH0611BT	C306	87-010-183-080	C-CAP, S	2700P-50 B
S324	87-A91-024-080	SW, TACT	KSH0611BT	C308	87-010-403-080	CAP, ELECT	3.3-50V
S325	87-A91-024-080	SW, TACT	KSH0611BT	C310	87-010-322-080	C-CAP, S	100P-50 CH
S326	87-A91-024-080	SW, TACT	KSH0611BT	C312	87-A10-946-080	C-CAP, S	220P-100 J CH
S327	87-A91-024-080	SW, TACT	KSH0611BT				
S328	87-A91-024-080	SW, TACT	KSH0611BT	C314	87-010-260-080	CAP, ELECT	47-25V
S329	87-A91-024-080	SW, TACT	KSH0611BT	C320	87-012-368-080	C-CAP, S	0.1-50 F
S330	87-A91-024-080	SW, TACT	KSH0611BT	C322	87-010-186-080	CAP, CHIP	4700P
S331	87-A91-024-080	SW, TACT	KSH0611BT	C403	87-010-403-080	CAP, ELECT	3.3-50V
S332	87-A91-024-080	SW, TACT	KSH0611BT	C405	87-010-183-080	C-CAP, S	2700P-50 B
S333	87-A91-024-080	SW, TACT	KSH0611BT				
S334	87-A91-024-080	SW, TACT	KSH0611BT	C407	87-010-403-080	CAP, ELECT	3.3-50V
S335	87-A91-024-080	SW, TACT	KSH0611BT	C409	87-010-322-080	C-CAP, S	100P-50 CH
S341	87-A91-024-080	SW, TACT	KSH0611BT	C411	87-A10-946-080	C-CAP, S	220P-100 J CH
S342	87-A91-024-080	SW, TACT	KSH0611BT	C413	87-010-260-080	CAP, ELECT	47-25V
S343	87-A91-024-080	SW, TACT	KSH0611BT	C419	87-012-368-080	C-CAP, S	0.1-50 F
S344	87-A91-024-080	SW, TACT	KSH0611BT	C421	87-010-186-080	CAP, CHIP	4700P
S345	87-A91-024-080	SW, TACT	KSH0611BT	C501	87-016-299-080	CAP, E	10-100 SME
S346	87-A91-024-080	SW, TACT	KSH0611BT	C502	87-012-368-080	C-CAP, S	0.1-50 F
				C503	87-016-299-080	CAP, E	10-100 SME
				CN101	87-A60-727-010	CONN, 13P	JL-R
				CN102	87-A60-727-010	CONN, 13P	JL-R
				TH201	87-A91-042-080	C-THMS, 100K	55001
				TH202	87-A91-042-080	C-THMS, 100K	55001
				TH302	87-A91-042-080	C-THMS, 100K	55001
				TH401	87-A91-042-080	C-THMS, 100K	55001
CD KEY C.B							
LED440	87-A40-608-040	LED, SLV-312VC	RED	R225	87-A00-262-080	RES, M/F	0.15-2W J
LED441	87-A40-608-040	LED, SLV-312VC	RED	R226	87-A00-262-080	RES, M/F	0.15-2W J
LED442	87-A40-608-040	LED, SLV-312VC	RED	R227	87-A00-262-080	RES, M/F	0.15-2W J
LED443	87-A40-609-040	LED, SLV-312MC	PG	R228	87-A00-262-080	RES, M/F	0.15-2W J
LED444	87-A40-609-040	LED, SLV-312MC	PG	R239	87-A00-262-080	RES, M/F	0.15-2W J
LED445	87-A40-609-040	LED, SLV-312MC	PG				
LED446	87-A40-609-040	LED, SLV-312MC	PG	R242	87-A00-262-080	RES, M/F	0.15-2W J
LED447	87-A40-609-040	LED, SLV-312MC	PG	R326	87-A00-258-080	RES, M/F	0.22-1W J
LED448	87-A40-609-040	LED, SLV-312MC	PG	R328	87-A00-258-080	RES, M/F	0.22-1W J

REF. NO	PART NO.	KANRI NO.	DESCRIPTION	REF. NO	PART NO.	KANRI NO.	DESCRIPTION
R427	87-A00-258-080	RES,M/F 0.22-1W J		C9	87-A10-231-090		CAP,E 3300-80
R429	87-A00-258-080	RES,M/F 0.22-1W J		C31	87-010-403-080		CAP, ELECT 3.3-50V
R340	87-A00-258-080	RES,M/F 0.22-1W J		C33	87-A10-479-080		CAP, CER 2200P-250 M E KH
R441	87-A00-258-080	RES,M/F 0.22-1W J		CN1	87-A60-851-010		CONN,9P V VH
				△PR2	87-026-682-080		PROTECTOR,10A 60V491
E-GEQ C.B				△PR3	87-026-682-080		PROTECTOR,10A 60V491
C901	87-010-402-080	CAP, ELECT 2.2-50V		△PR4	87-026-682-080		PROTECTOR,10A 60V491
C902	87-010-402-080	CAP, ELECT 2.2-50V		△PR5	87-026-682-080		PROTECTOR,10A 60V491
C903	87-010-404-080	CAP, ELECT 4.7-50V		△PT1	8Z-NF5-603-010		PT,HE ZNF-5
C904	87-010-404-080	CAP, ELECT 4.7-50V		△PT2	8Z-NF8-663-010		PT,SUB ZNF-8(H)
C905	87-010-404-080	CAP, ELECT 4.7-50V					
C907	87-016-669-080	C-CAP,S 0.1-25 K B		RY1	87-A91-281-010		RELAY,AC DC12V OSA-SS-212DM5
C908	87-016-669-080	C-CAP,S 0.1-25 K B		△S101	87-A90-165-010		SW,SL 1-2-3 SWS2301
C909	87-016-460-080	C-CAP,S 0.22-16 B		△T1	87-A60-317-010		TERMINAL, 1P MSC
C910	87-016-460-080	C-CAP,S 0.22-16 B		△T2	87-A60-317-010		TERMINAL, 1P MSC
C911	87-012-365-080	C-CAP,S 0.027-25VBK		TUNER C.B			
C912	87-012-365-080	C-CAP,S 0.027-25VBK		C701	87-010-381-080		CAP, ELECT 330-16V
C913	87-010-956-080	CHIP-CAP,S 0.068-25B		C702	87-010-404-080		CAP, ELECT 4.7-50V
C914	87-010-956-080	CHIP-CAP,S 0.068-25B		C703	87-012-286-080		CAP, U 0.01-25
C915	87-010-197-080	CAP, CHIP 0.01 DM		C704	87-012-286-080		CAP, U 0.01-25
C916	87-010-197-080	CAP, CHIP 0.01 DM		C705	87-A10-592-080		C-CAP,S 0.015-50 J B
C917	87-010-198-080	CAP, CHIP 0.022		C706	87-A10-592-080		C-CAP,S 0.015-50 J B
C918	87-010-198-080	CAP, CHIP 0.022		C709	87-012-195-080		C-CAP,U 100P-50CH
C919	87-010-183-080	C-CAP,S 2700P-50 B		C711	87-010-260-080		CAP, ELECT 47-25V
C920	87-010-183-080	C-CAP,S 2700P-50 B		C711	87-010-553-080		CAP,E 47-16
C921	87-010-188-080	CAP,CHIP 6800P		C712	87-010-831-080		C-CAP,U,0.1-16F
C922	87-010-188-080	CAP,CHIP 6800P		C713	87-012-286-080		CAP, U 0.01-25
C923	87-010-178-080	CHIP CAP 1000P		C714	87-012-286-080		CAP, U 0.01-25
C924	87-010-178-080	CHIP CAP 1000P		C715	87-012-195-080		C-CAP,U 100P-50CH
C925	87-010-182-080	C-CAP,S 2200P-50 B		C717	87-012-286-080		CAP, U 0.01-25
C926	87-010-182-080	C-CAP,S 2200P-50 B		C718	87-012-179-080		C-CAP,U 20P-50 CH
C927	87-010-112-080	CAP, ELECT 100-16V		C719	87-012-286-080		CAP, U 0.01-25
C928	87-010-196-080	CHIP CAPACITOR,0.1-25		C720	87-012-195-080		C-CAP,U 100P-50CH
C929	87-010-322-080	C-CAP,S 100P-50 CH		C721	87-012-176-080		CAP 15P
C930	87-010-322-080	C-CAP,S 100P-50 CH		C722	87-012-176-080		CAP 15P
C931	87-010-322-080	C-CAP,S 100P-50 CH		C723	87-012-274-080		CHIP CAP,U 1000P-50B
PN901	87-A60-546-010	CONN,11P H GRY TUC-P11X-C1		C725	87-018-131-080		CAP, CER 1000P-50V
KEY CON C.B				C725	87-012-274-080		CHIP CAP,U 1000P-50B
C501	87-A10-060-080	C-CAP,S 0.18-16 K B		C727	87-010-196-080		CHIP CAPACITOR,0.1-25
C502	87-A10-060-080	C-CAP,S 0.18-16 K B		C728	87-010-248-080		CAP, ELECT 220-10V
C503	87-012-154-080	C-CAP,S 150P-50 CH		C729	87-012-274-080		CHIP CAP,U 1000P-50B
C504	87-012-154-080	C-CAP,S 150P-50 CH					
C505	87-012-145-080	CAP, CHIP S 270P CH		C731	87-012-286-080		CAP, U 0.01-25
C506	87-012-145-080	CAP, CHIP S 270P CH		C733	87-010-987-080		C-CAP,S 1500P-50 CH
C507	87-010-183-080	C-CAP,S 2700P-50 B		C733	87-012-280-080		CAP, U 3300P-50
C509	87-010-196-080	CHIP CAPACITOR,0.1-25		C734	87-010-987-080		C-CAP,S 1500P-50 CH
C510	87-010-177-080	C-CAP,S 820P-50 SL		C734	87-012-280-080		CAP, U 3300P-50
C511	87-010-177-080	C-CAP,S 820P-50 SL					
C512	87-010-196-080	CHIP CAPACITOR,0.1-25		C735	87-010-987-080		C-CAP,S 1500P-50 CH
C513	87-010-374-080	CAP, ELECT 47-10V		C736	87-010-987-080		C-CAP,S 1500P-50 CH
C514	87-010-196-080	CHIP CAPACITOR,0.1-25		C737	87-A10-592-080		C-CAP,S 0.015-50 J B
C515	87-010-263-080	CAP, ELECT 100-10V		C738	87-A10-592-080		C-CAP,S 0.015-50 J B
C517	87-010-183-080	C-CAP,S 2700P-50 B		C751	87-010-220-080		C-CAP,S 0.018-25 B
C521	87-016-460-080	C-CAP,S 0.22-16 B					
C522	87-016-460-080	C-CAP,S 0.22-16 B		C751	87-012-365-080		C-CAP,S 0.027-25VBK
C523	87-016-460-080	C-CAP,S 0.22-16 B		C752	87-010-220-080		C-CAP,S 0.018-25 B
C527	87-010-196-080	CHIP CAPACITOR,0.1-25		C752	87-012-365-080		C-CAP,S 0.027-25VBK
CN501	87-A60-689-010	CONN,7P H GRY TUC-P07X-C1		C752	87-012-282-080		CAP, U 4700P-50
				C753	87-012-195-080		C-CAP,U 100P-50CH
PT C.B				C755	87-012-286-080		CAP, U 0.01-25
C1	87-010-387-080	CAP,E 470-25 SME		C756	87-012-286-080		CAP, U 0.01-25
C3	87-012-368-080	C-CAP,S 0.1-50 F		C757	87-012-188-080		C-CAP,U 47P-50 CH
C4	87-A11-148-080	CAP,TC U 0.1-50 Z F		C758	87-012-167-080		C-CAP,U 5P-50 CH
C5	87-A11-148-080	CAP,TC U 0.1-50 Z F		C761	87-010-196-080		CHIP CAPACITOR,0.1-25
C6	87-A11-148-080	CAP,TC U 0.1-50 Z F					
C8	87-A10-231-090	CAP,E 3300-80		C762	87-012-286-080		CAP, U 0.01-25
				C763	87-010-829-080		CAP, U 0.047-16
				C764	87-012-337-080		C-CAP,U 56P-50 CH
				C765	87-012-286-080		CAP, U 0.01-25
				C766	87-010-197-080		CAP, CHIP 0.01 DM
				C768	87-012-286-080		CAP, U 0.01-25
				C769	87-010-260-080		CAP, ELECT 47-25V
				C770	87-010-829-080		CAP, U 0.047-16

REF. NO	PART NO.	KANRI NO.	DESCRIPTION	REF. NO	PART NO.	KANRI NO.	DESCRIPTION
C771	87-010-383-080	CAP,	ELECT 33-25V	C885	87-010-545-080	CAP,	ELECT 0.22-50V
C772	87-010-829-080	CAP,	U 0.047-16	C886	87-016-460-080	C-CAP,S	0.22-16 B
C773	87-010-196-080	CHIP	CAPACITOR,0.1-25	C886	87-010-545-080	CAP,	ELECT 0.22-50V
C774	87-010-263-080	CAP,	ELECT 100-10V	C887	87-012-286-080	CAP,	U 0.01-25
C775	87-010-404-080	CAP,	ELECT 4.7-50V	C888	87-010-787-080	CAP,	U 0.022-25
C776	87-012-286-080	CAP,	U 0.01-25	C889	87-010-248-080	CAP,	ELECT 220-10V
C777	87-010-400-080	CAP,	ELECT 0.47-50V	C893	87-012-286-080	CAP,	U 0.01-25
C777	87-010-493-080	CAP,E	0.47-50 GAS	C894	87-012-286-080	CAP,	U 0.01-25
C778	87-010-401-080	CAP,	ELECT 1-50V	C940	87-012-286-080	CAP,	U 0.01-25
C779	87-010-401-080	CAP,	ELECT 1-50V	C941	87-012-180-080	C-CAP,U	22P-50 CH
C780	87-010-196-080	CHIP	CAPACITOR,0.1-25	C942	87-012-168-080	C-CAP,U	6P-50 CH
C781	87-010-405-080	CAP,	ELECT 10-50V	C943	87-012-286-080	CAP,	U 0.01-25
C782	87-010-405-080	CAP,	ELECT 10-50V	C944	87-014-051-080	CAPACITOR (PP),	560P
C783	87-012-286-080	CAP,	U 0.01-25	C945	87-012-286-080	CAP,	U 0.01-25
C784	87-012-286-080	CAP,	U 0.01-25	C947	87-012-286-080	CAP,	U 0.01-25
C785	87-010-494-080	CAP	ELECT GAS 1/50	C949	87-A10-039-080	C-CAP,U	470P-50 J CH
C785	87-010-401-080	CAP,	ELECT 1-50V	C950	87-014-073-080	CAP,PP	4700P-100 J
C785	87-010-405-080	CAP,	ELECT 10-50V	C952	87-012-286-080	CAP,	U 0.01-25
C786	87-010-494-080	CAP	ELECT GAS 1/50	C953	87-012-286-080	CAP,	U 0.01-25
C786	87-010-401-080	CAP,	ELECT 1-50V	C954	87-012-358-080	C-CAP,S	0.47-10 F Z
C786	87-010-405-080	CAP,	ELECT 10-50V	C956	87-010-263-080	CAP,	ELECT 100-10V
C787	87-012-275-080	C-CAP,U	1200P-50 B	C958	87-010-197-080	CAP,	CHIP 0.01 DM
C788	87-012-275-080	C-CAP,U	1200P-50 B	C959	87-010-831-080	C-CAP,U,	0.1-16F
C789	87-012-275-080	C-CAP,U	1200P-50 B	C959	87-010-196-080	CHIP	CAPACITOR,0.1-25
C790	87-012-275-080	C-CAP,U	1200P-50 B	C960	87-012-350-080	C-CAP,	1-25 F
C791	87-010-405-080	CAP,	ELECT 10-50V	C960	87-010-196-080	CHIP	CAPACITOR,0.1-25
C793	87-012-273-080	C-CAP,U	820P-50 B	C961	87-012-174-080	CAP	CHIP CERA SS 12P CHJ
C794	87-010-406-080	CAP,	ELECT 22-50	C962	87-010-401-080	CAP,	ELECT 1-50V
C795	87-010-596-080	CAP,	U 0.047-16	C963	87-010-196-080	CHIP	CAPACITOR,0.1-25
C796	87-010-403-080	CAP,	ELECT 3.3-50V	CF801	87-008-423-010	CERAMIC	FILTER, SFE10.7
C797	87-012-276-080	CAP,	CHIP SS 1500 PBK	CF801	87-008-261-010	FILTER,	SFE10.7MA5-A
C798	87-012-276-080	CAP,	CHIP SS 1500 PBK	CF802	82-785-747-010	CF	MS2 GHY R
C799	87-010-829-080	CAP,	U 0.047-16	CF802	87-008-261-010	FILTER,	SFE10.7MA5-A
C801	87-012-286-080	CAP,	U 0.01-25	CN701	87-A60-700-010	CONN,13P	H GRY TUC-P13X-C1
C802	87-012-286-080	CAP,	U 0.01-25	CN701	87-A60-650-010	CONN,16P	H GRY TUC-P16X-C1
C803	87-012-286-080	CAP,	U 0.01-25	FFE801	A8-6ZA-191-130	6ZA-1	FEENM
C804	87-012-286-080	CAP,	U 0.01-25	FFE801	A8-6ZA-192-030	6ZA-1	FEJNM
C805	87-012-286-080	CAP,	U 0.01-25	FFE801	A8-6ZA-193-130	6ZA-1	FEVNM
C806	87-012-286-080	CAP,	U 0.01-25	FFE801	A8-6ZA-19D-070	6ZA-1	YFEJNC
C807	87-012-286-080	CAP,	U 0.01-25	FFE801	A8-8ZA-190-030	8ZA-1	FEUNM
C808	87-012-286-080	CAP,	U 0.01-25	J801	87-A60-703-010	TERMINAL,ANT	3P CJ-9037
C809	87-012-286-080	CAP,	U 0.01-25	J801	87-A60-702-010	TERMINAL,ANT	4P CJ-9036
C810	87-012-286-080	CAP,	U 0.01-25	J801	87-033-241-010	TERMINAL,ANT	AJ-2039
C812	87-012-286-080	CAP,	U 0.01-25	J940	81-754-629-010	CONNECTOR,	2P
C814	87-012-286-080	CAP,	U 0.01-25	L771	87-A50-266-010	COIL,FM	DET-2N(TOK)
C820	87-010-260-080	CAP,	ELECT 47-25V	L772	87-A90-052-010	FLTR,CFMT-450A	(TOK)
C821	87-012-286-080	CAP,	U 0.01-25	L772	87-A91-110-010	FLTR,PCFJZH-450	(TOK)
C822	87-012-286-080	CAP,	U 0.01-25	L772	87-A90-053-010	FLTR,PCFMT-060	(TOK)
C823	87-012-286-080	CAP,	U 0.01-25	L781	87-005-847-080	COIL,2.2UH	(CECS)
C828	87-010-196-080	CHIP	CAPACITOR,0.1-25	L791	87-A50-027-010	COIL,1 POLE	MPX(TOK)
C829	87-010-196-080	CHIP	CAPACITOR,0.1-25	L792	87-A50-027-010	COIL,1 POLE	MPX(TOK)
C859	87-012-286-080	CAP,	U 0.01-25	L832	87-005-847-080	COIL,2.2UH	(CECS)
C861	87-012-199-080	CAP	220P	L851	87-005-847-080	COIL,2.2UH	(CECS)
C862	87-012-199-080	CAP	220P	L941	87-A50-020-010	COIL,ANT	LW(COI)
C863	87-012-270-080	CAP,	U 470P-50	L941	87-A50-022-010	COIL,ANT	SW(COI)
C864	87-010-405-080	CAP,	ELECT 10-50V	L942	87-A50-019-010	COIL,OSC	LW(COI)
C865	87-010-196-080	CHIP	CAPACITOR,0.1-25	L942	87-A50-173-010	COIL,OSC	SW-N(COI)
C866	87-010-405-080	CAP,	ELECT 10-50V	L943	87-A50-432-010	COIL,1MH	K CW
C867	87-012-286-080	CAP,	U 0.01-25	L944	87-A50-159-010	COIL,10MH	K C2B
C868	87-012-184-080	C-CAP,U	33P-50 CH	L981	8Z-ZA1-665-010	COIL,AM	PACK 2(TOK)
C869	87-012-180-080	C-CAP,U	22P-50 CH	L981	8Z-ZA1-664-010	COIL,AM	PACK 4(TOK)
C872	87-010-400-080	CAP,	ELECT 0.47-50V	L981	87-A50-430-010	COIL,ANT	MW(3BSW)
C873	87-010-404-080	CAP,	ELECT 4.7-50V	L982	87-A50-431-010	COIL,OSC	MW(3BSW)
C877	87-012-278-080	C-CAP,U	2200P-50 B	TC941	87-011-220-080	TRIMMER	CAP 20P VTC
C878	87-012-278-080	C-CAP,U	2200P-50 B	TC942	87-011-164-010	CAPACITOR,TRIMMER	30P
C881	87-012-141-080	CHIP-CAPACITOR,	0.22-16F	TC943	87-011-221-080	CAP,	TRIMMER 30P
C882	87-012-172-080	CAPACITOR	CHIP U 10P CH	X721	87-A70-061-010	VIB,XTAL	4.500MHZ CSA-309
C883	87-010-404-080	CAP,	ELECT 4.7-50V	X771	87-030-354-010	VIB,CF	BFU 450C
C884	87-010-260-080	CAP,	ELECT 47-25V	X851	87-A70-091-010	VIB,XTAL	4.332MHZ CSA-309
C885	87-016-460-080	C-CAP,S	0.22-16 B	X891	87-030-394-010	VIB,CER	CSA3.6MGF228

REF. NO	PART NO.	KANRI NO.	DESCRIPTION
DECK C.B			
CON105 SOL1 SOL2 SFR1	82-ZM3-601-019	RBN-CORD, 4P-75	
	87-099-756-019	CONN,15P 9604S F	
	82-ZM1-618-310	SOL ASSY, 27	
	82-ZM1-626-010	SOL ASSY, 27K	
	87-024-581-010	SFR, 3.3K DIA 6H	
SW1 SW2 SW3 SW4 SW5	87-036-378-010	SW, PUSH 1-1-1 SH2	
	87-036-378-010	SW, PUSH 1-1-1 SH2	
	87-036-378-010	SW, PUSH 1-1-1 SH2	
	87-036-378-010	SW, PUSH 1-1-1 SH2	
	87-036-378-010	SW, PUSH 1-1-1 SH2	
SW6 SW8 SW9	87-036-378-010	SW, PUSH 1-1-1 SH2	
	87-036-378-010	SW, PUSH 1-1-1 SH2	
	87-036-378-010	SW, PUSH 1-1-1 SH2	
HEAD-1 C.B			
HEAD-2 C.B			
CON351	87-NF6-616-010	CONN ASSY, 8P RPB	

- Regarding connectors, they are not stocked as they are not the initial order items.
The connectors are available after they are supplied from connector manufacturers upon the order is received.

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

8

8

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A

抵抗部品コード

Resistor Code

桁表示

Figure

抵抗値

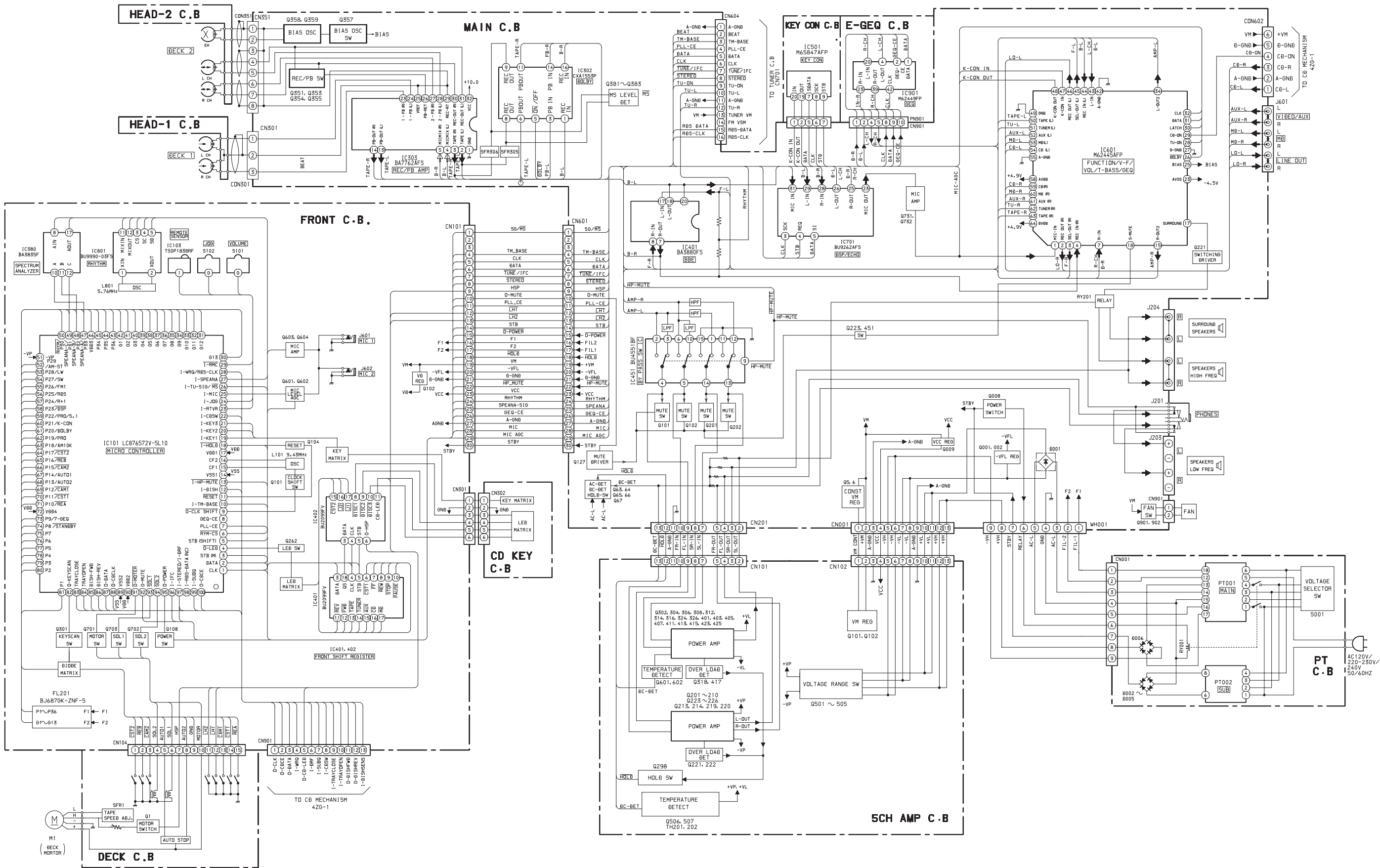
Value of resistor

チップ抵抗

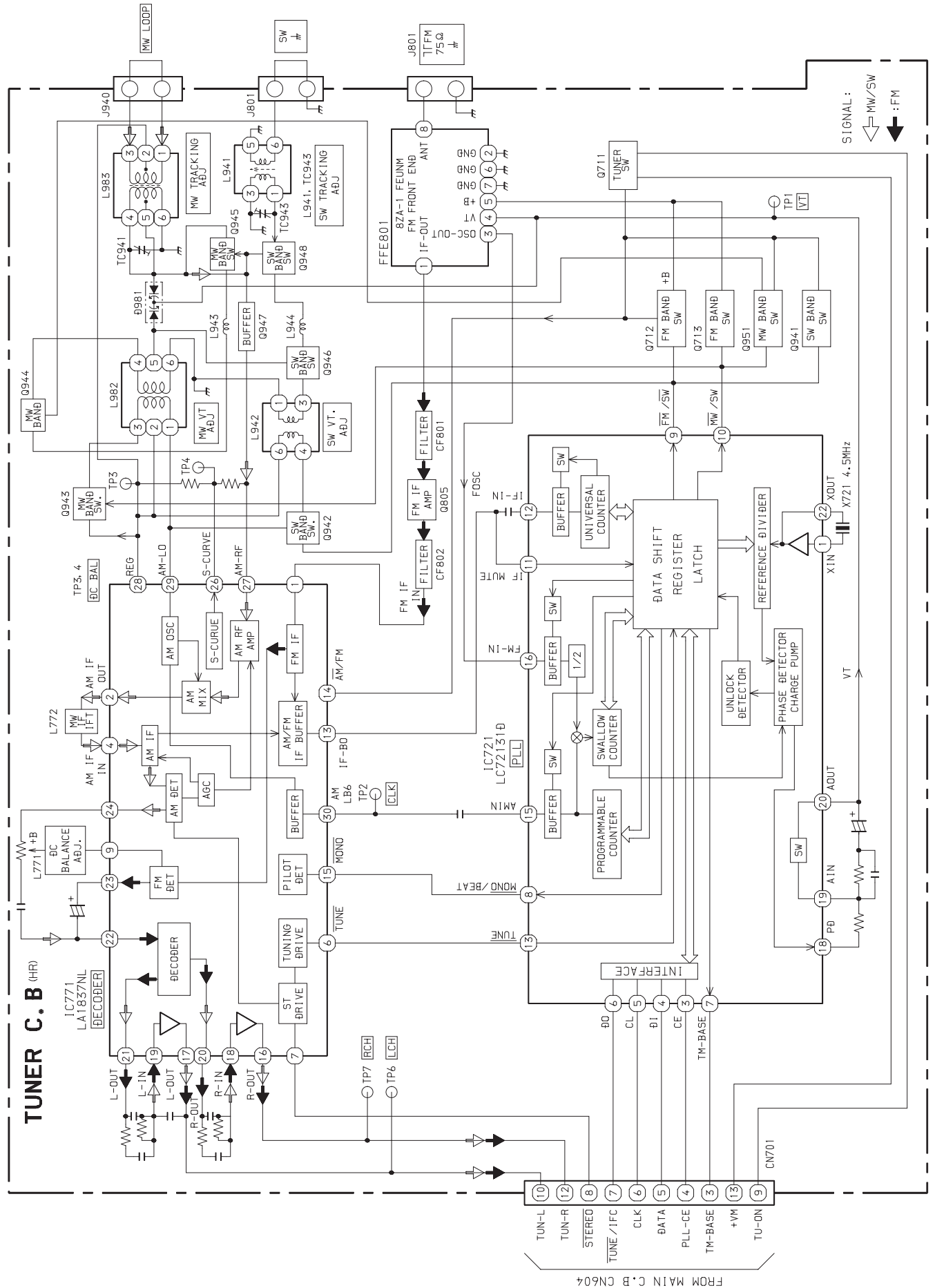
Chip resistor

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

BLOCK DIAGRAM-1 (MAIN)



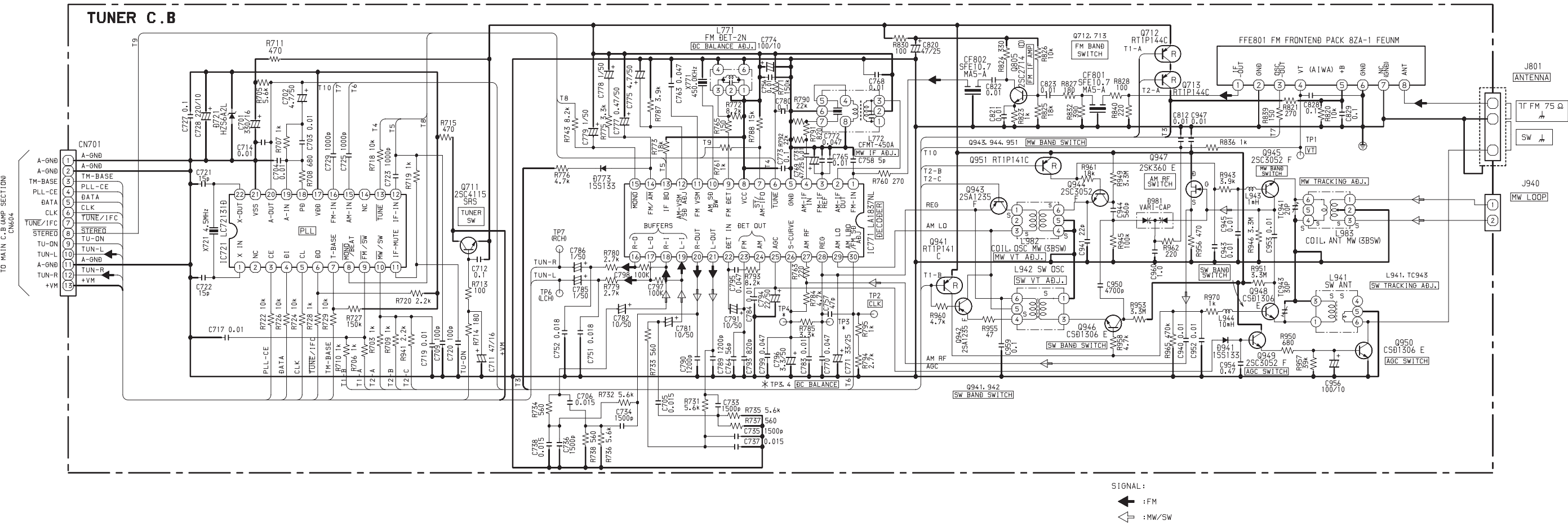
BLOCK DIAGRAM-2 (TUNER)



1 | 2 | 3 | 4 | 5 | 6 | 7

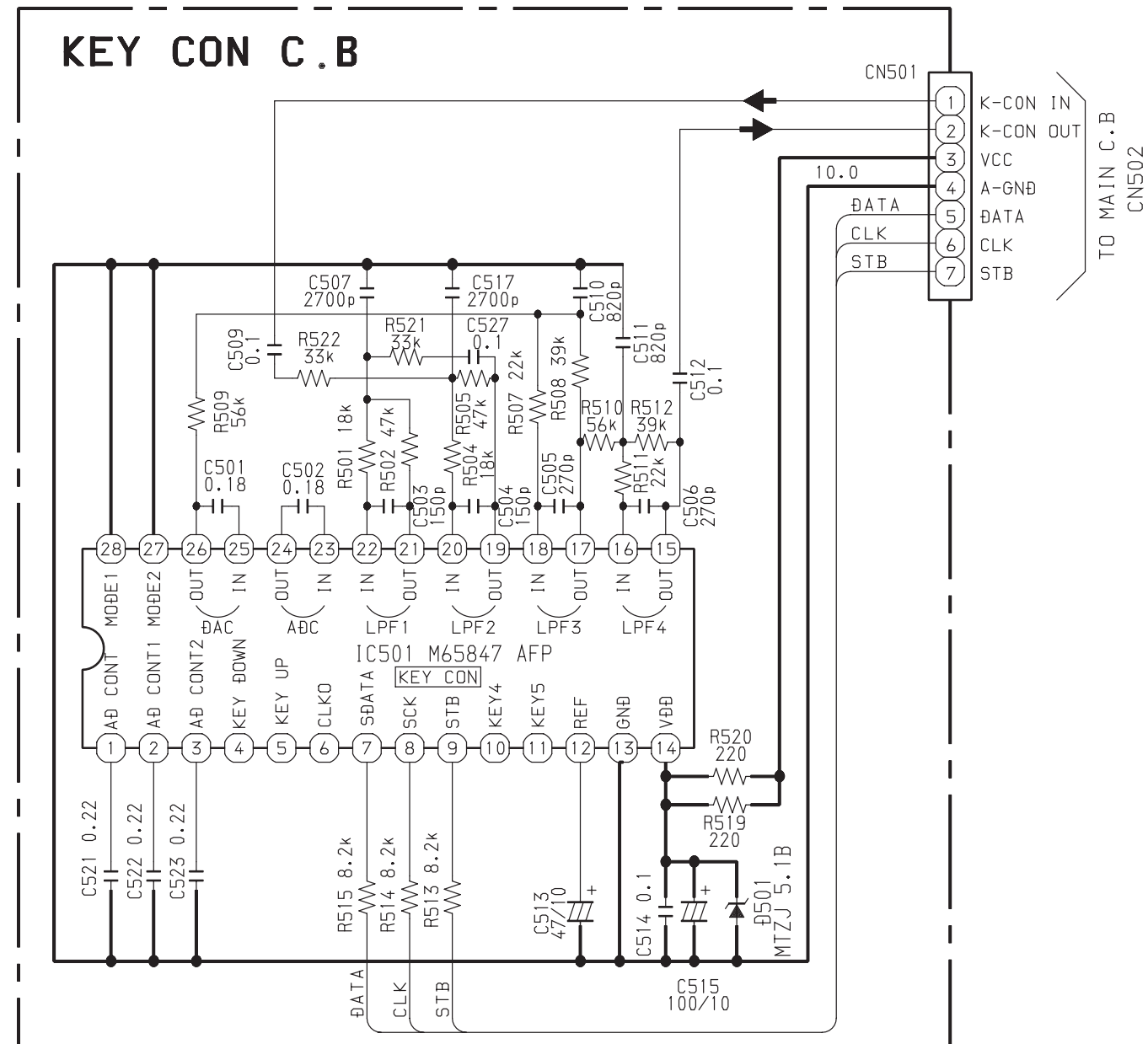


SCHEMATIC DIAGRAM-1 (TUNER)

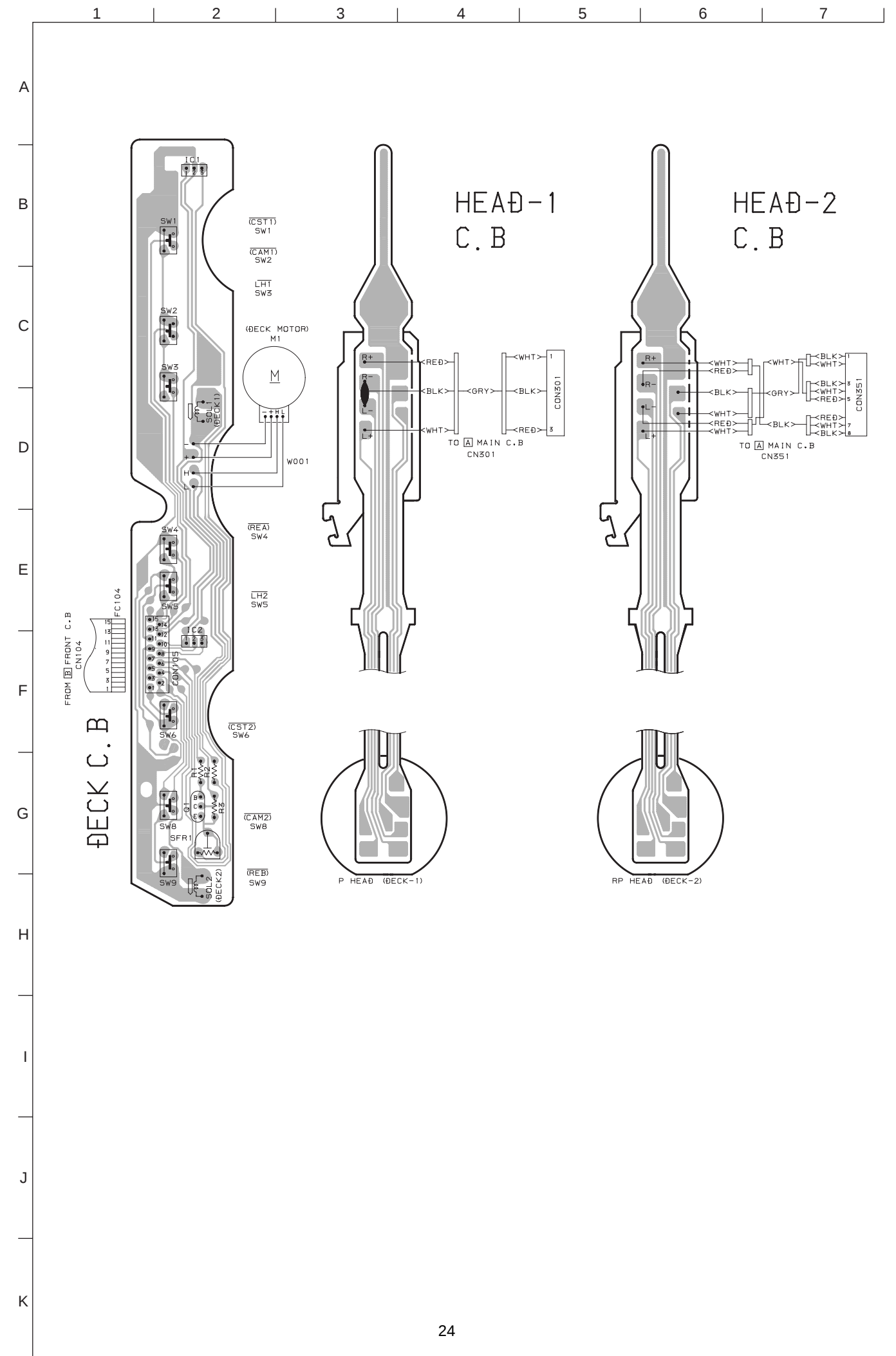


1	2	3	4	5	6	7	8	9	10	11	12	13	14
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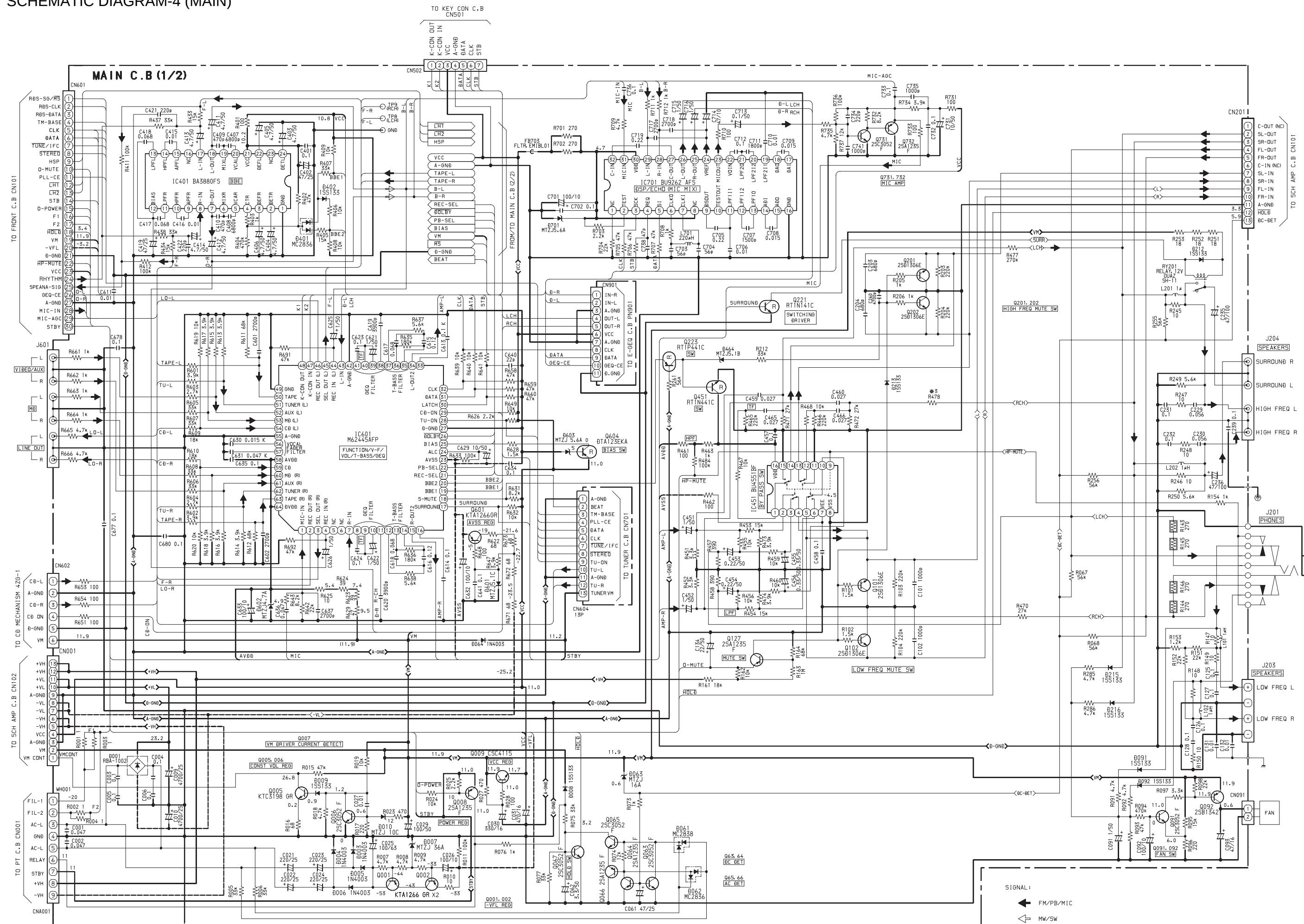
SCHEMATIC DIAGRAM-3 (KEY CONTROL)



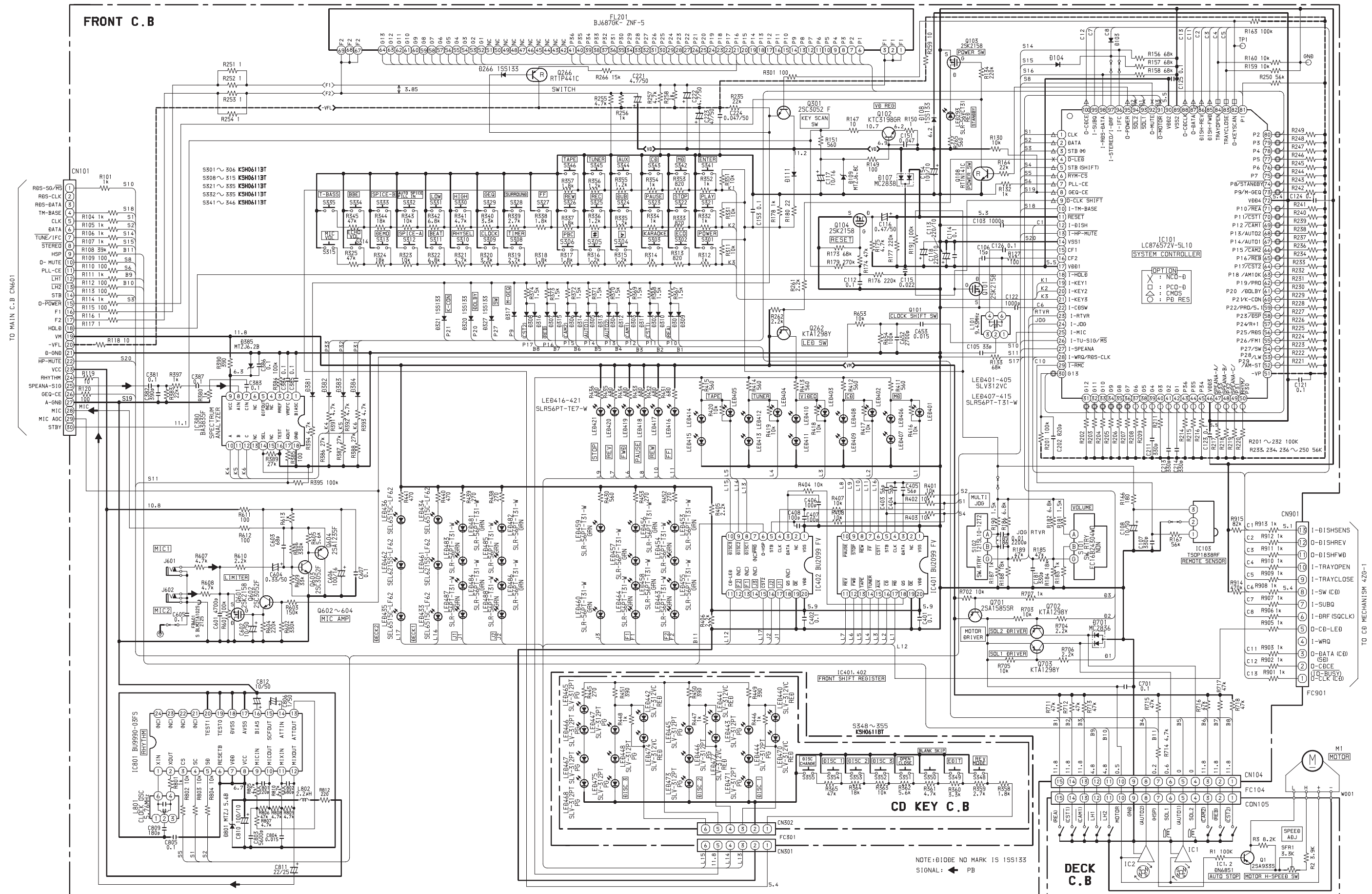
WIRING-3 (MECHA)



SCHEMATIC DIAGRAM-4 (MAIN)

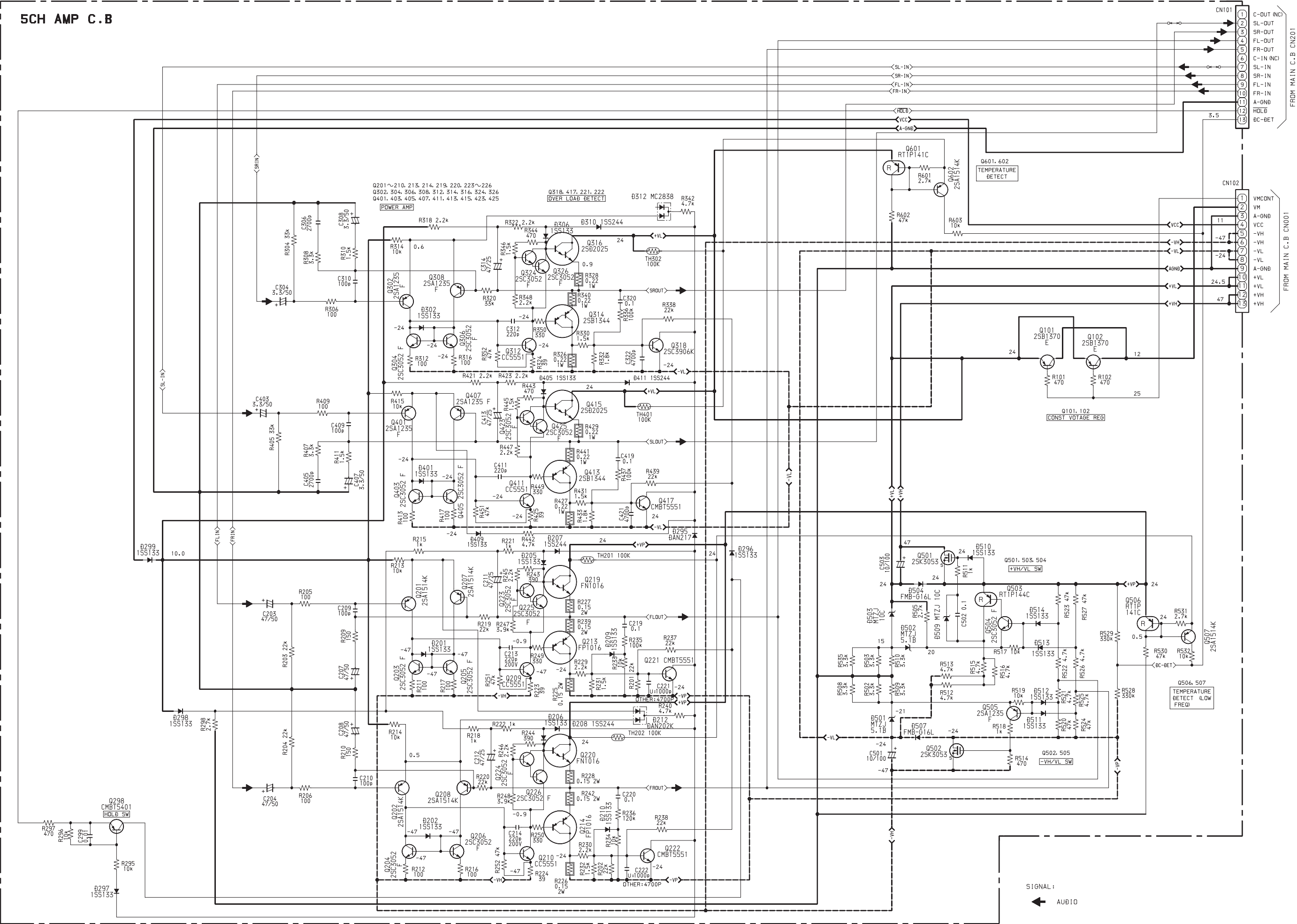


SCHEMATIC DIAGRAM-5 (FRONT)

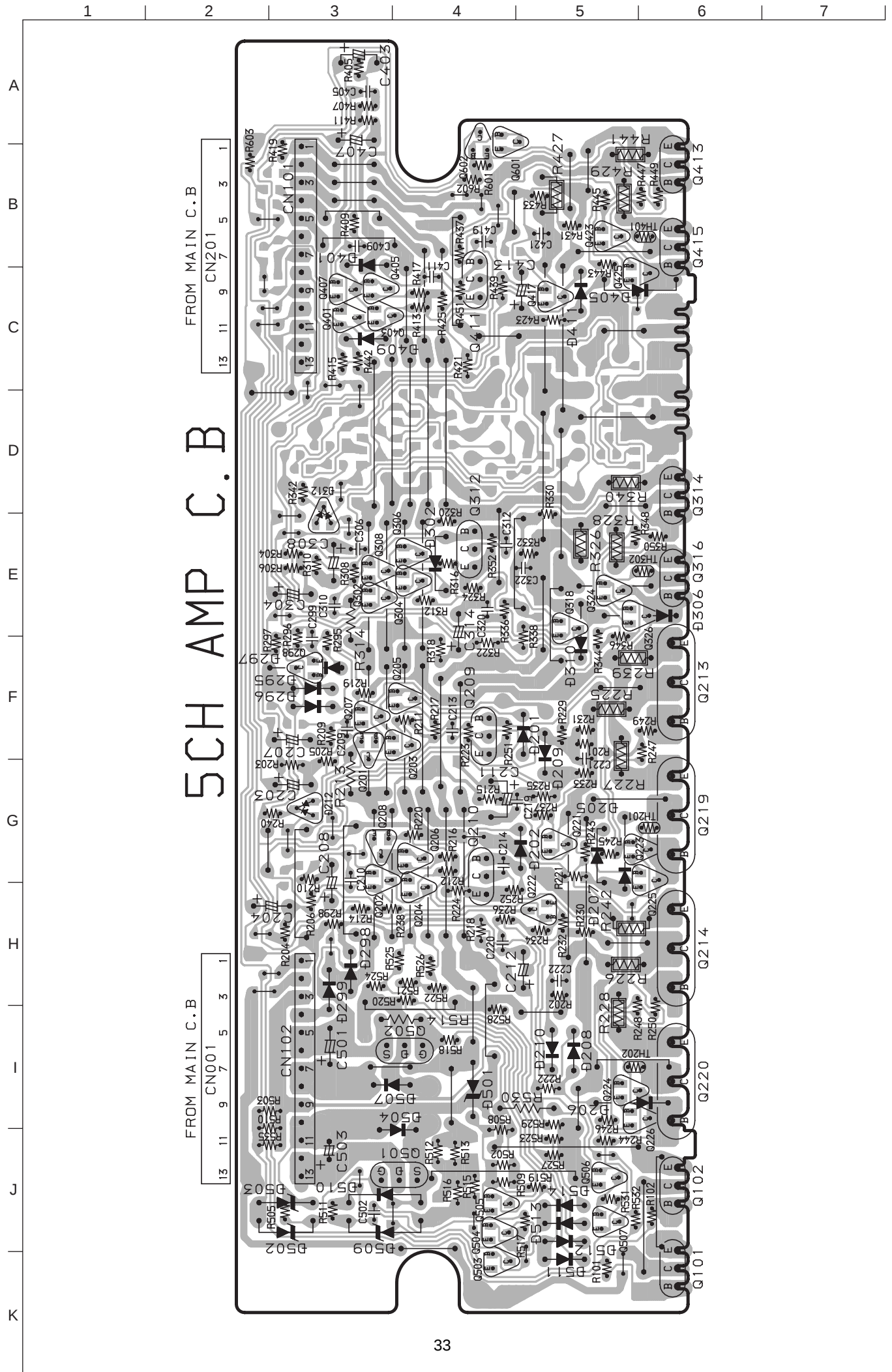


1	2	3	4	5	6	7	8	9	10	11	12	13	14
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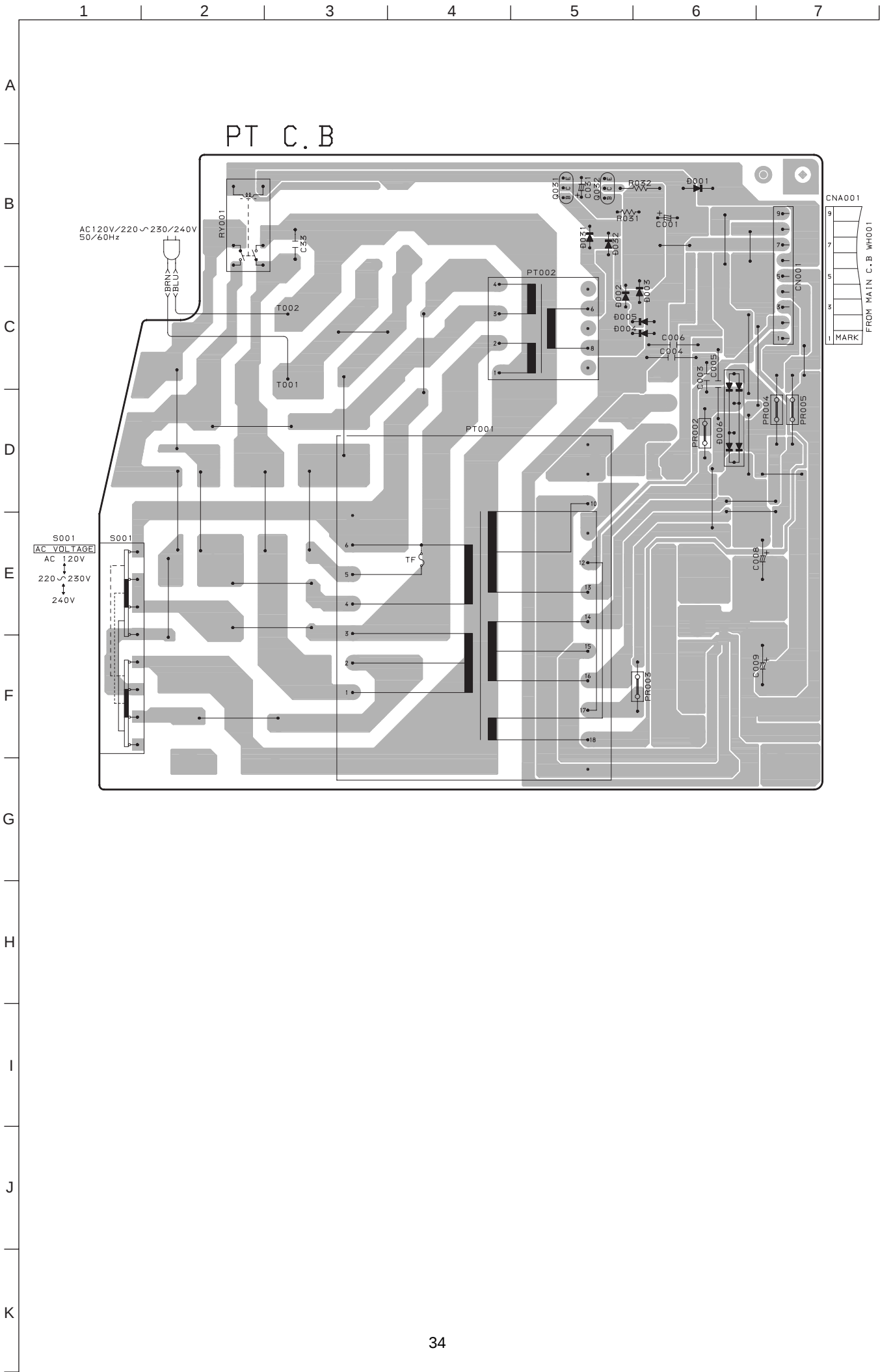
5CH AMP C.B



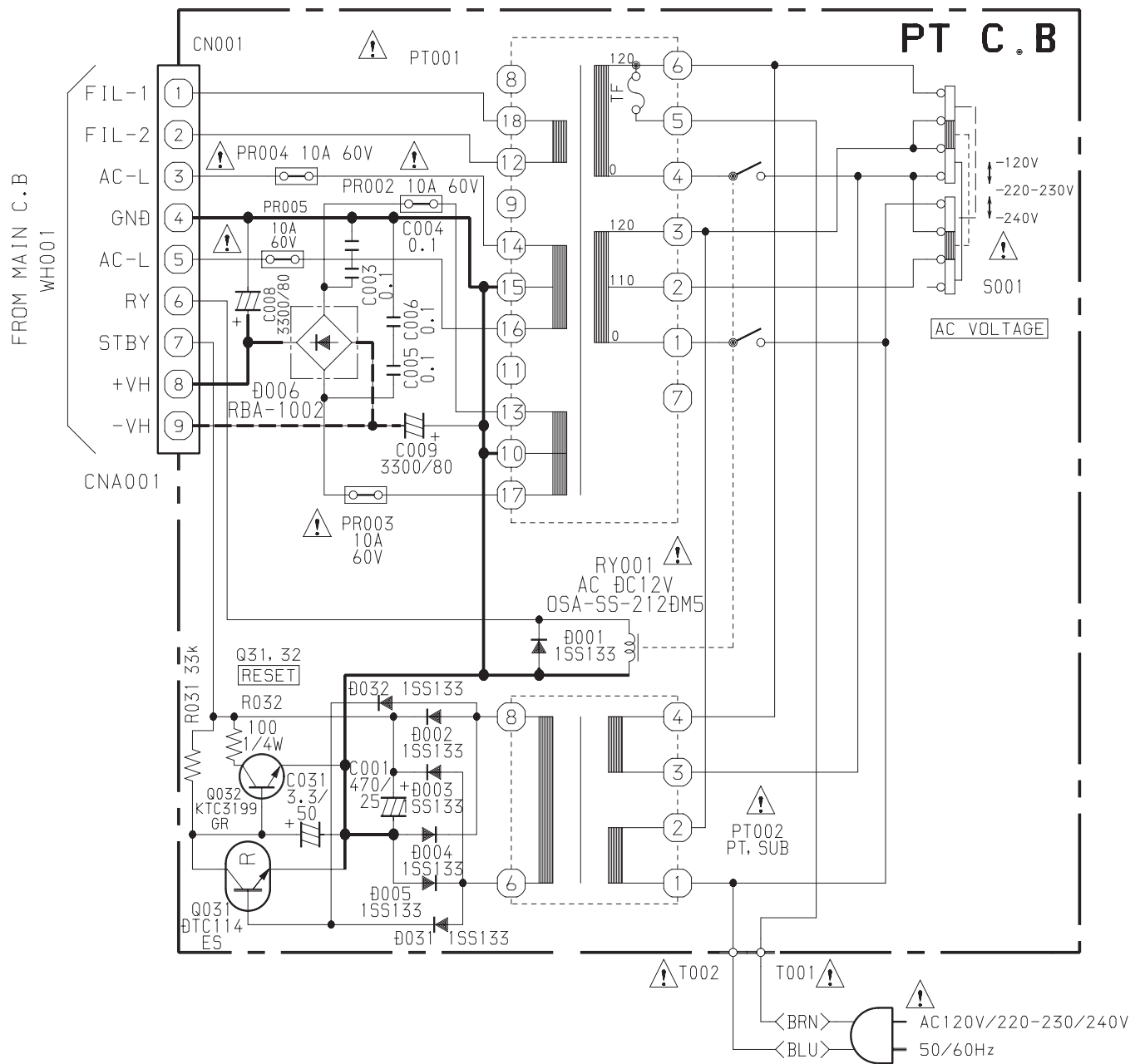
WIRING-5 (AMP)



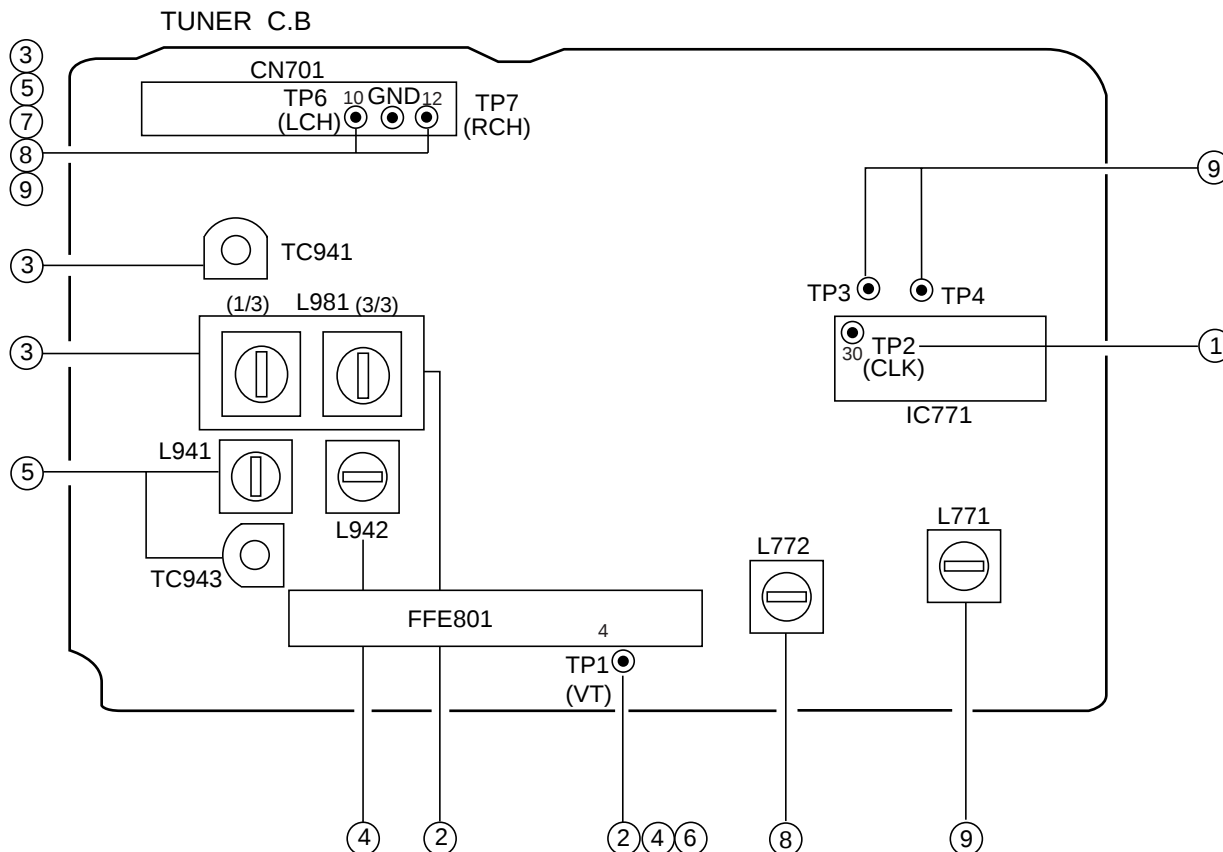
WIRING-6 (PT)



SCHEMATIC DIAGRAM-7 (PT)



ELECTRICAL ADJUSTMENT



< TUNER SECTION >

1. Clock Frequency Check

Settings: • Test point: TP2 (CLK)

Method: Set to MW1602kHz and check that the test point is 2052kHz±45Hz.
2. MW VT Adjustment

Settings: • Test point: TP1 (VT)

• Adjustment location: L981 (3/3)

Method: Set to MW 1710kHz and adjust L981 (3/3) so that the test point becomes 8.0V±0.05V. Then set to MW 530kHz and check that the test point is more than 0.3V.
3. MW Tracking Adjustment

Settings: • Test point: TP6(Lch), TP7(Rch)

• Adjustment location:

L981 (1/3) 603kHz

TC941 1404kHz

Method: Set up TC941 to center before adjustment. The level at 603kHz is adjust to max. by L981 (1/3). Then the level at 1404kHz is adjust to max. by TC941.
4. SW VT Adjustment

Settings: • Test point: TP1 (VT)

• Adjustment location: L942

Method: Set to SW 17.9MHz and adjust L942 so that the test point becomes 7.0V±0.05V. Then set to SW 5.9MHz and check that the test point is more than 0.3V.
5. SW Tracking Adjustment

Settings: • Test point: TP6 (Lch), TP7 (Rch)

• Adjustment location:

L941 5.9MHz

TC943 17.9MHz

Method: Set up TC943 to center before adjustment. The level at 5.9MHz is adjust to max. by L941. Then the level at 17.9MHz is adjust to max. by TC943.
6. FM VT Check

Settings: • Test point: TP1 (VT)

Method: Set to FM 108.0MHz and check that the test point is less than 8.0V.

Set to FM 87.5MHz and check that the test point is more than 0.5V.
7. FM Tracking Check

Settings: • Test point: TP6 (Lch), TP7 (Rch)

Method: Set to FM 98.0MHz and check that the test point is less than 9.0dBμV.
8. AM IF Adjustment

Settings: • Test point: TP6 (Lch), TP7 (Rch)

• Adjustment location:

L772 450kHz

Method: Adjust L772 so that the output becomes max.
9. DC Balance/Mono Distortion Adjustment

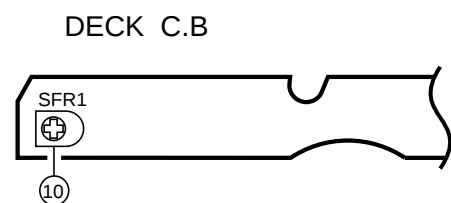
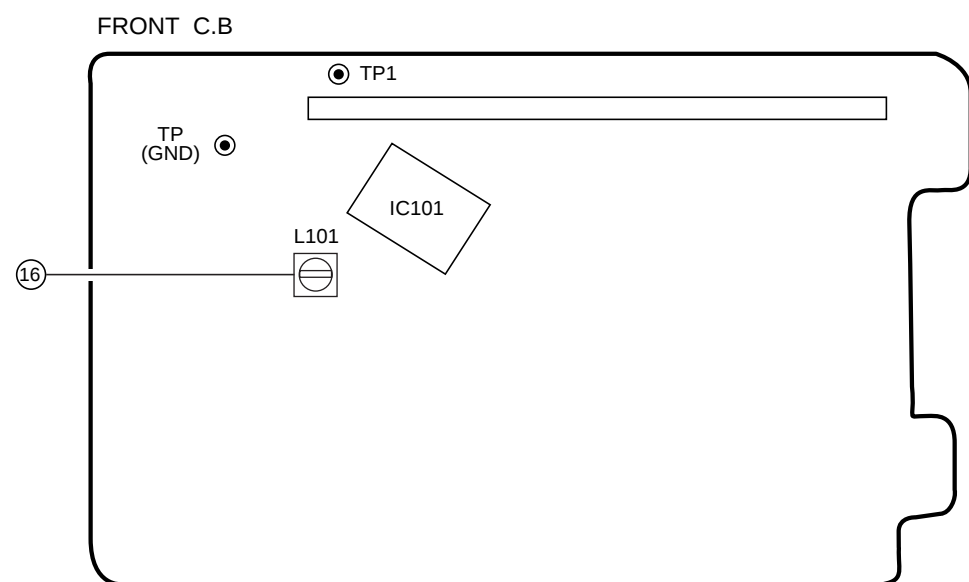
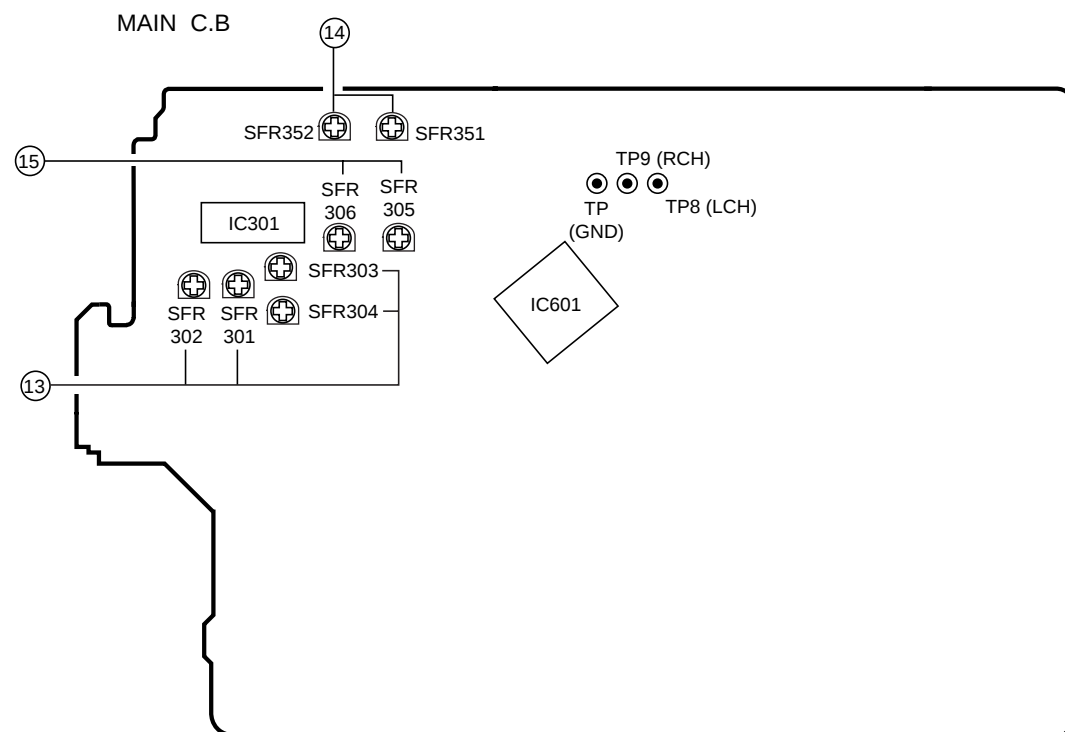
Settings: • Test point: TP3, TP4 (DC Balance)

TP6 (Lch), TP7 (Rch) (Distortion)

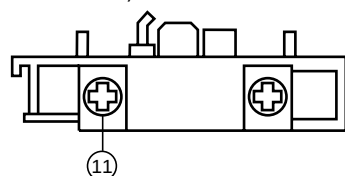
• Adjustment location: L771

• Input level: 60dBμV

Method: Set to FM 98.0MHz and adjust L771 so that the voltage between TP3 and TP4 becomes 0V±0.04V. Next, check that the distortion is less than 1.3%.



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



< DECK SECTION >

10. Tape Speed Adjustment (DECK1, DECK2)

- Settings:
- Test tape: TTA-100
 - Test point: TP8 (Lch), TP9 (Rch)
 - Adjustment location: SFR1

Method: Play back the test tape and adjust SFR1 so that the frequency counter reads 3000Hz $\pm$ 5Hz and $\pm$ 45Hz (REV) with respect to forward speed.

11. Head Azimuth Adjustment (DECK1, DECK2)

- Settings:
- Test tape: TTA-300
 - Test point: TP8 (Lch), TP9 (Rch)
 - Adjustment location: Head azimuth adjustment screw

Method: Play back (FWD) the 10kHz signal of the test tape and adjust screw so that the output becomes maximum. Next, perform on REV PLAY mode.

12. PB Frequency Response Check (DECK1, DECK2)

- Settings:
- Test tape: TTA-300
 - Test point: TP8 (Lch), TP9 (Rch)

Method: Play back the 315Hz and 10kHz signals of the test tape and check that the output ratio of the 10kHz signal with respect to that of the 315Hz signal is within 2.0dB.

13. PB Sensitivity Adjustment (DECK1, DECK2)

- Settings:
- Test tape: TTA-200
 - Test point: TP8 (Lch), TP9 (Rch)
 - Adjustment location: SFR301 (Lch DECK1)
SFR302 (Rch DECK1)
SFR303 (Lch DECK2)
SFR304 (Rch DECK2)

Method: Play back the test tape and adjust SFR's so that the output level of the test point is 250-260mV (DECK1), 245 $\pm$ 10mV (DECK2).

PRACTICAL SERVICE FIGURE

< TUNER SECTION >

< FM SECTION >

IHF Sensitivity: Less than 10/9/9dB μ V
[at 87.5/98.0/108.0MHz]
S/N 50dB Quieting sensitivity:

Signal to noise ratio: Less than 35dB μ V
[at 98.0MHz]
Mono: More than 68dB
Stereo: More than 62dB
[at 98.0MHz]

Distortion: Mono: Less than 1.2%
Stereo: Less than 2.0%
[at 98.0MHz]

Auto stop level: 25dB μ V $\pm$ 10dB
[at 98.0MHz]

Stereo separation: More than 22dB
[at 98.0MHz]

Intermediate frequency: 10.7MHz

< MW SECTION >

Sensitivity: Less than 60/58/58dB μ V
[at 603/999/1404kHz]

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

Distortion: Less than 1.5%
[at 999kHz]

Auto stop level: 52dB μ V +10/-15dB
[at 999kHz]

Intermediate frequency: 450kHz

14. REC/PB Frequency Response Adjustment

- Settings:
- Test tape: TTA-602
 - Test point: TP8 (Lch), TP9 (Rch)
 - Input signal: 1kHz/10kHz (LINE IN)
 - Adjustment location: SFR351 (Lch)
SFR352 (Rch)

Method: Apply a 1kHz signal and REC mode. Then adjust OSC attenuator so that the output level at the TP8, TP9 becomes 0dB (17mV). Record and play back the 1kHz and 10kHz signals and adjust SFRs so that the output of the 10kHz signals becomes 0dB $\pm$ 0.5dB with respect to that of the 1kHz signal.

15. REC/PB Sensitivity Adjustment

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

Method: Apply a 1kHz signal and REC mode. Then adjust OSC attenuator so that the output level at TP8, TP9 becomes 0dB (17mV). Record and play back the 1kHz signals and check that the output is 0dB $\pm$ 0.5dB.

< FRONT SECTION >

16. Clock Adjustment

- Settings:
- Test point: TP1
 - Adjustment location: L101

Method: Insert AC plug with pressing TUNER function key. Adjust L101 so that the frequency across the test point is 208.82Hz $\pm$ 0.2Hz or 4.7888ms $\pm$ 0.005ms.

< SW SECTION >

Sensitivity: Less than 51/45/44dB μ V
[at 5.9/12.0/17.9MHz]

Overload signal distortion: Less than 10%

< DECK SECTION >

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

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

F.F & REW torque: 75~160g-cm
Back tension: 2~7g-cm
(FWD, REV)

PB output level: 225mV $\pm$ 1dB
REC/PB output level: 0dB $\pm$ 1.0dB
(0VU, NORM, CrO2)

Distortion (REC/PB): Less than 2.0%
(0VU, NORM, CrO2)

Noise level (PB): Less than 2.0mV
(NORM, FILTER DIN AUDIO)

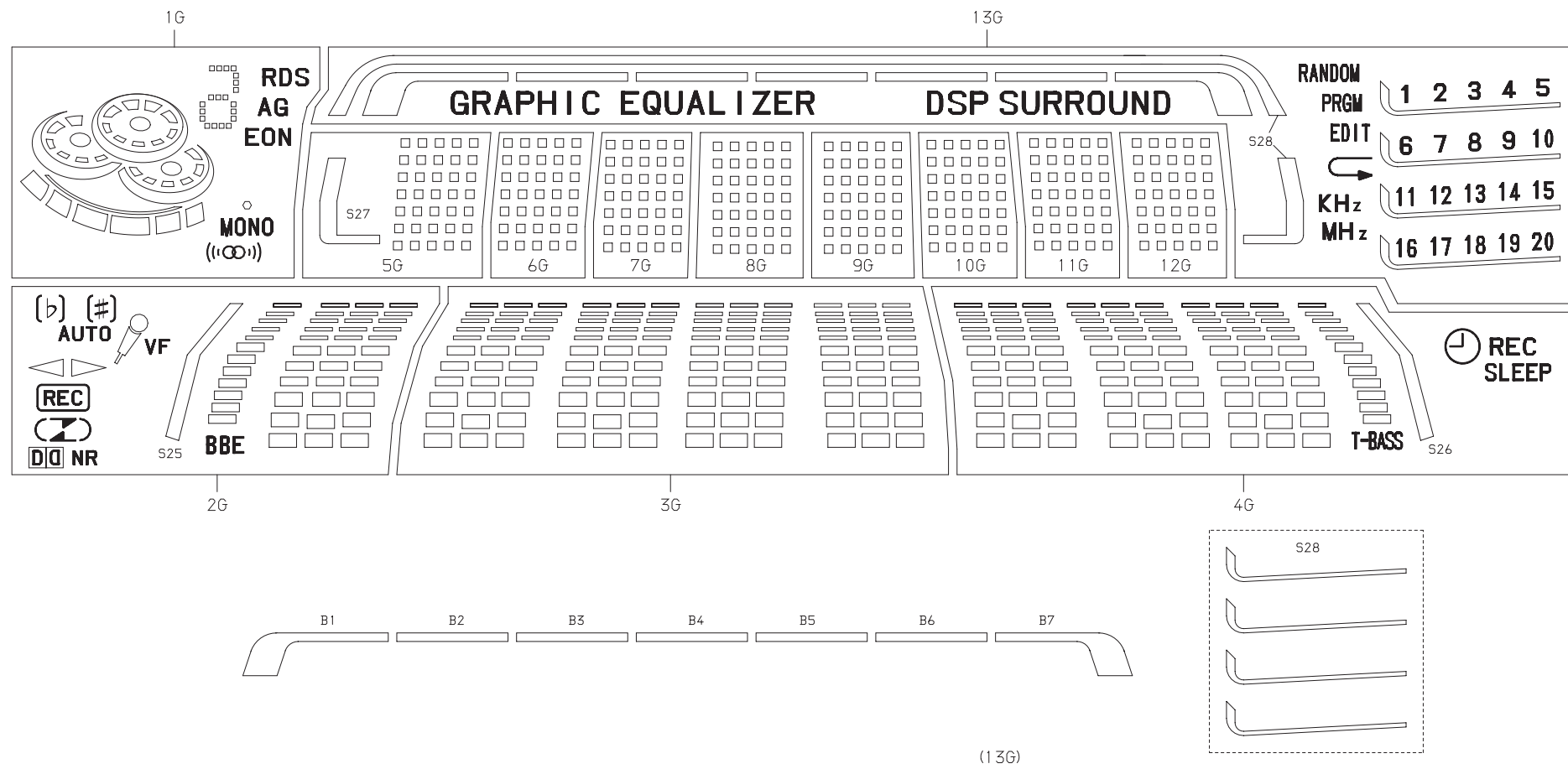
Noise level (REC/PB): Less than 3.0mV
(NORM, FILTER DIN AUDIO)

Erasing ratio: More than 60dB
(at 125Hz, +10VU, CrO2)

Test tape: TTA-602 (NORMAL)
TTA-615 (CrO2)

FL GRID ASSIGNMENT/ANODE CONNECTION

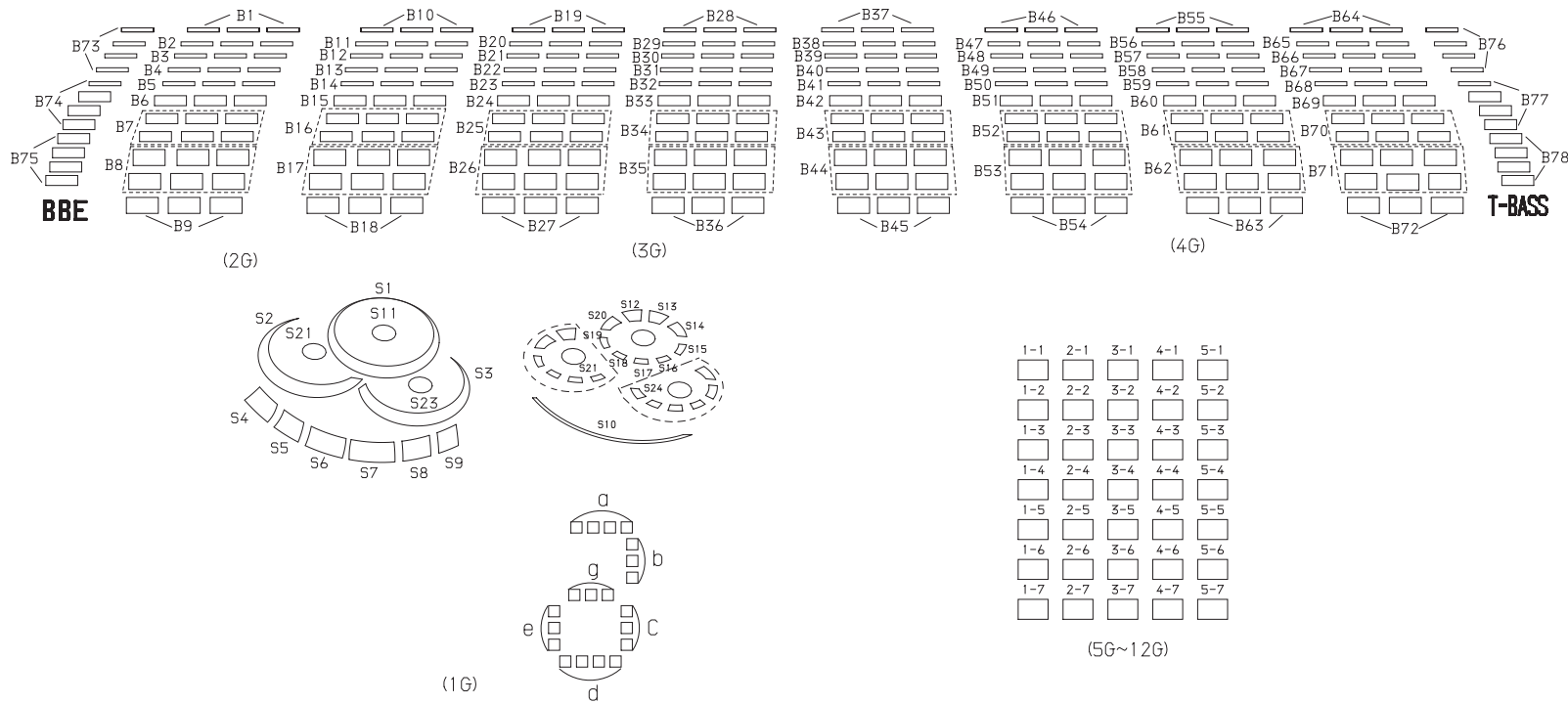
GRID ASSIGNMENT



ANODE CONNECTION

	1G	2G	3G	4G	5G	6G~12G	13G
P1	EON	B9	B45	REC	1-1	1-1	DSP SURROUND
P2	AG	DQNR	B36	B72	2-1	2-1	GRAPHIC EQUALIZER
P3	○	BBE	B27	B63	3-1	3-1	B7
P4	MONO	S25	B18	B54	4-1	4-1	B6
P5	(∞∞)	B8	B44	⊙	5-1	5-1	B5
P6	RDS	⊙	B35	B71	1-2	1-2	B4
P7	b	⊙	B26	B62	2-2	2-2	B3
P8	c	⊙	B17	B53	3-2	3-2	B2
P9	a, g, d	B7	B43	SLEEP	4-2	4-2	B1
P10	e	(REC)	B34	B70	5-2	5-2	RANDOM
P11	S1	⊙	B25	B61	1-3	1-3	PRGM
P12	S12	⊙	B16	B52	2-3	2-3	EDIT
P13	S13	B6	B42	T-BASS	3-3	3-3	⊙
P14	S20	b #	B33	B69	4-3	4-3	KHz
P15	S14	(b)	B24	B60	5-3	5-3	MHz
P16	S11	(#)	B15	B51	1-4	1-4	S28
P17	S19	B5	B41	B78	2-4	2-4	16
P18	S15	B75	B32	B68	3-4	3-4	11
P19	S18	B74	B23	B59	4-4	4-4	6
P20	S16	B73	B14	B50	5-4	5-4	1
P21	S17	B4	B40	B77	1-5	1-5	17
P22	S3	⊙	B31	B67	2-5	2-5	12
P23	S24	VF	B22	B58	3-5	3-5	7
P24	S23	AUTO	B13	B49	4-5	4-5	2
P25	S9	B3	B39	B76	5-5	5-5	18
P26	S8	—	B30	B66	1-6	1-6	13
P27	S7	—	B21	B57	2-6	2-6	8
P28	S6	—	B12	B48	3-6	3-6	3
P29	S5	B2	B38	B26	4-6	4-6	19
P30	S4	—	B29	B65	5-6	5-6	14
P31	S2	—	B20	B56	1-7	1-7	9
P32	S22	—	B11	B47	2-7	2-7	4
P33	S21	B1	B37	—	3-7	3-7	20
P34	S10	—	B28	S64	4-7	4-7	15
P35	—	—	B19	S55	5-7	5-7	10
P36	—	—	B10	S46	S27	—	5

GRID ASSIGNMENT



IC DESCRIPTION

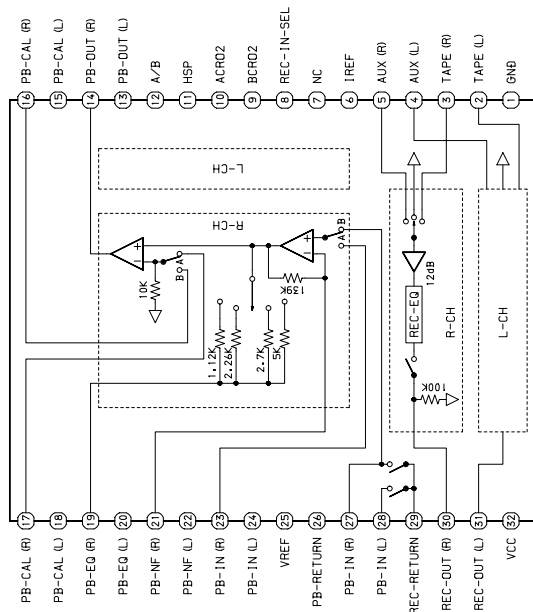
IC, LC876572V-5L10

Pin No.	Pin Name	I/O	Description
1	CLK	O	CLOCK output for MAIN, FRONT C.B.
2	DATA	O	DATA output for MAIN, FRONT C.B.
3	STB (M)	O	Data latch strobe output for MAIN C.B.
4	O-LED	O	LED ON/OFF output.
5	STB (SHIFT)	O	Latch strobe output for FRONT shift register.
6	RYM-CS	O	Latch strobe output for RHYTHM IC.
7	PLL-CE	O	PLL IC chip enable output.
8	GEQ-CE	O	GEQ IC chip enable output.
9	O-CLK SHIFT	O	TUNER CLOCK SHIFT output.
10	I-TM-BASE	I	REFERENCE CLOCK input for timer watch.
11	RESET	I	Reset input.
12	I-DISH	I	CD turntable photo sensor A/D converter input.
13	I-HP-MUTE	I	Headphone input for MUTE by PROLOGIC.
14	VSS 1	—	GND.
15	CF 1	—	9.43MHz oscillator circuit.
16	CF 2	—	
17	VDD 1	—	Power supply input.
18	I-HOLD	I	Power failure detection input.
19	I-KEY-1	I	KEY input. (A/D)
20	I-KEY-2	I	
21	I-KEY-3	I	
22	I-CD SW	I	CD mechanical switch A/D converter input.
23	I-RTVR	I	Rotary volume A/D level input.
24	I-JOG	I	JOG dial A/D level input.
25	I-MIC	I	Microphone input for AUTO VF.
26	I-TU-SIG/MS	I	Tuner signal and deck music sensor signal input.
27	I-SPEANA	I	A/D input for spectrum analyzer display.
28	I-WRQ/RDS-CLK	I	CD WRQ input/Tuner RDS clock input.
29	I-RMC	I	System remote control signal input.
30-42	G13-G1	O	FL GRID output G13-G1.
43-45	P36-P34	O	FL SEGMENT output P36-P34.
46	VDD3	—	Power supply input.
47	SPEANA-A/P33	O	Spectrum analyzer band switching ouput A/FL segment P33 output.
48	SPEANA-B/P32	O	Spectrum analyzer band switching ouput B/FL segment P32 output.
49	SPEANA-C/P31	O	Spectrum analyzer band switching ouput C/FL segment P31 output.
50	RHYM/P30	I/O	RHYTHM input to diode/FL segment P30 output.
51	-VP	—	Power supply input for FL display.
52	P29/AM-ST	O	FL segment P29 output/AM-ST input to diode.
53	P28/LW	O	FL segment P28 output/LW input to diode.
54	P27/SW	I/O	FL segment P27 output/SW input to diode.
55	P26/FM1	O	FL segment P26 output/FM1 (OIRT) input to diode.

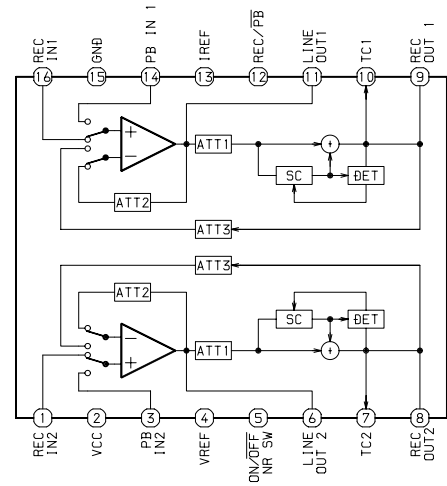
Pin No.	Pin Name	I/O	Description
56	P25/RDS	O	FL segment P25 output/RDS input to diode.
57	P24/R+1	O	FL segment P24 output/RVS+1 way input to diode.
58	P23/DSP	O	FL segment P23 output/DSP input to diode.
59	P22/PRO/5.1	O	FL segment P22 output/PRO/5.1 input to diode.
60	P21/K-CON	O	FL segment P21 output/K-CON input to diode.
61	P20/DOLBY	O	FL segment P20 output/DOLBY input to diode.
62	P19/PRO	O	FL segment P19 output/PRO input to diode.
63	P18/AM10K	O	FL segment P18 output/AM 10KHz input to diode.
64	P17/CTS2	I/O	FL segment P17 output/DECK2 cassette detect switch data input.
65	P16/REB	I/O	FL segment P16 output/DECK2 sideB record OK switch data input.
66	P15/CAM2	I/O	FL segment P15 output/DECK2 CAM switch data input.
67	P14/AUTO1	I/O	FL segment P14 output/DECK1 AUTO stop signal input.
68	P13/AUTO2	I/O	FL segment P13 output/DECK2 AUTO stop signal input.
69	P12/CAM1	I/O	FL segment P12 output/DECK1 CAM switch data input.
70	P11/CTS1	I/O	FL segment P11 output/DECK1 cassette detect switch data input.
71	P10/REA	I/O	FL segment P10 output/DECK2 sideA record OK switch data input.
72	VDD4	—	Power supply input.
73	P9/M-GEQ	I/O	FL segment P9 output/M-GEQ input to diode.
74	P8/STANBY	I/O	FL segment P8 output/STANBY input to diode.
75-81	P7-P1	O	FL segment P7-P1 output.
82	O-KEYSCAN	O	Switch SCAN timing output.
83	TRAYCLOSE	O	CD tray close data output.
84	TRAYOPEN	O	CD tray open data output.
85	DISH-FWD	O	CD turntable forward rotation output.
86	DISH-REV	O	CD turntable reverse rotation output.
87	O-DATA	O	CD data output.
88	O-CDCLK	O	CD clock output.
89	VSS2	—	GND.
90	VDD2	—	Power supply input.
91	O-MOTOR	O	Deck motor ON/OFF output.
92	O-MUTE	O	System mute ON/OFF output.
93	SOL1	O	Deck1 solenoid output.
94	SOL2	O	Deck2 solenoid output.
95	O-POWER	O	System power supply ON/OFF output.
96	I-IFC	I	Tune IF count serial data input.
97	I-STEREO/I-DRF	I	Tuner stereo detected input/DRF input.
98	I-RDS-DATA	I	RDS data input (Not used).
99	I-SUBQ	I	CD SUBQ data input.
100	O-CDCE	O	CD chip enable output.

IC BLOCK DIAGRAM

IC, BA7762AFS

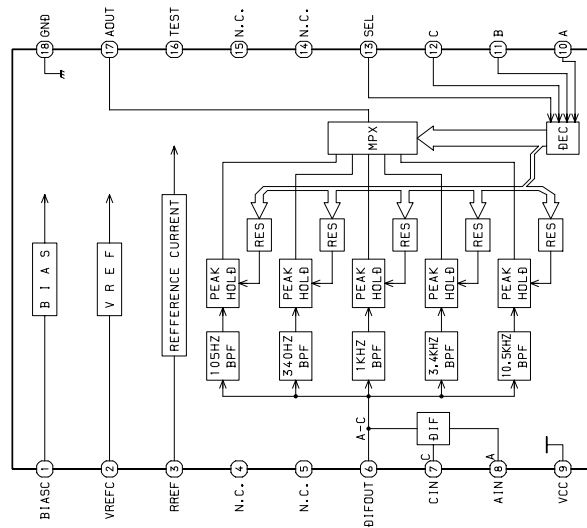


IC, CXA1553P

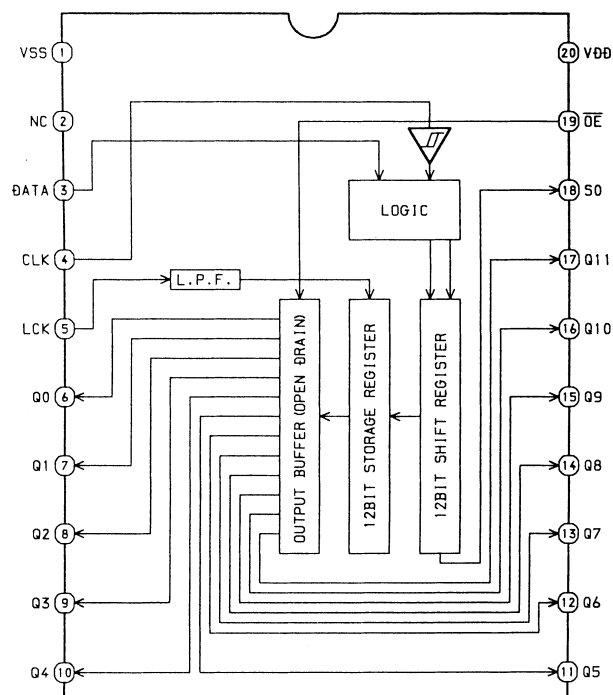


ATT:Attenuator
SC:Side Chain
DET:Detector

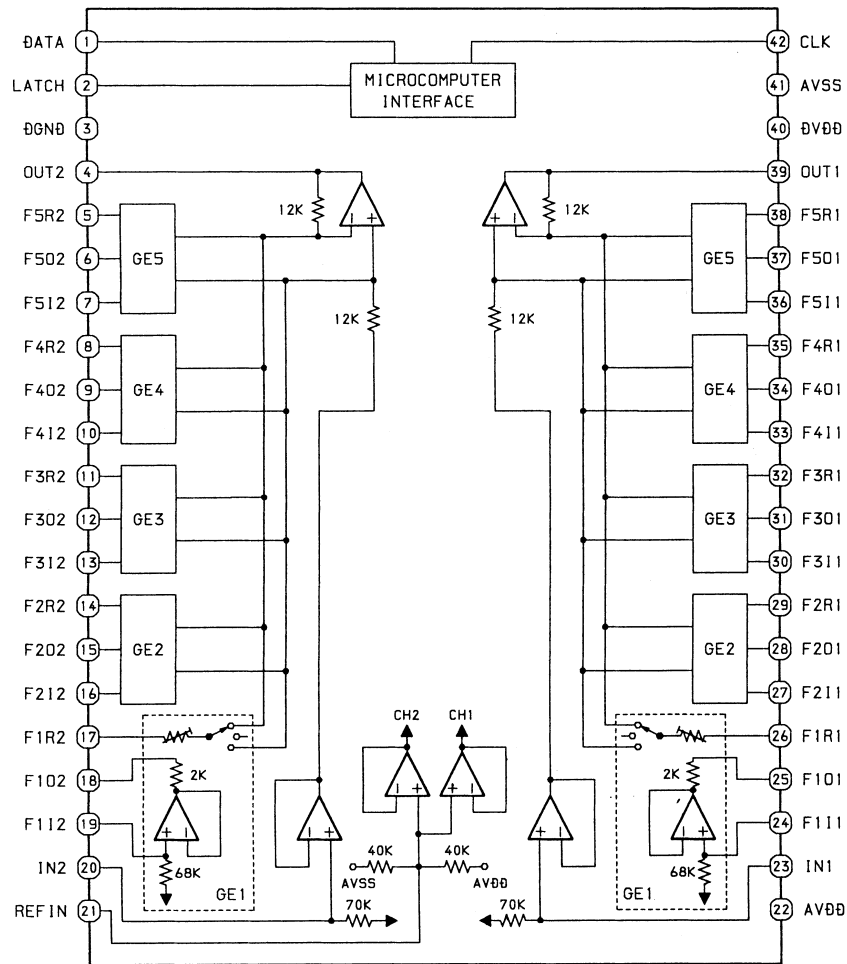
IC, BA3835F



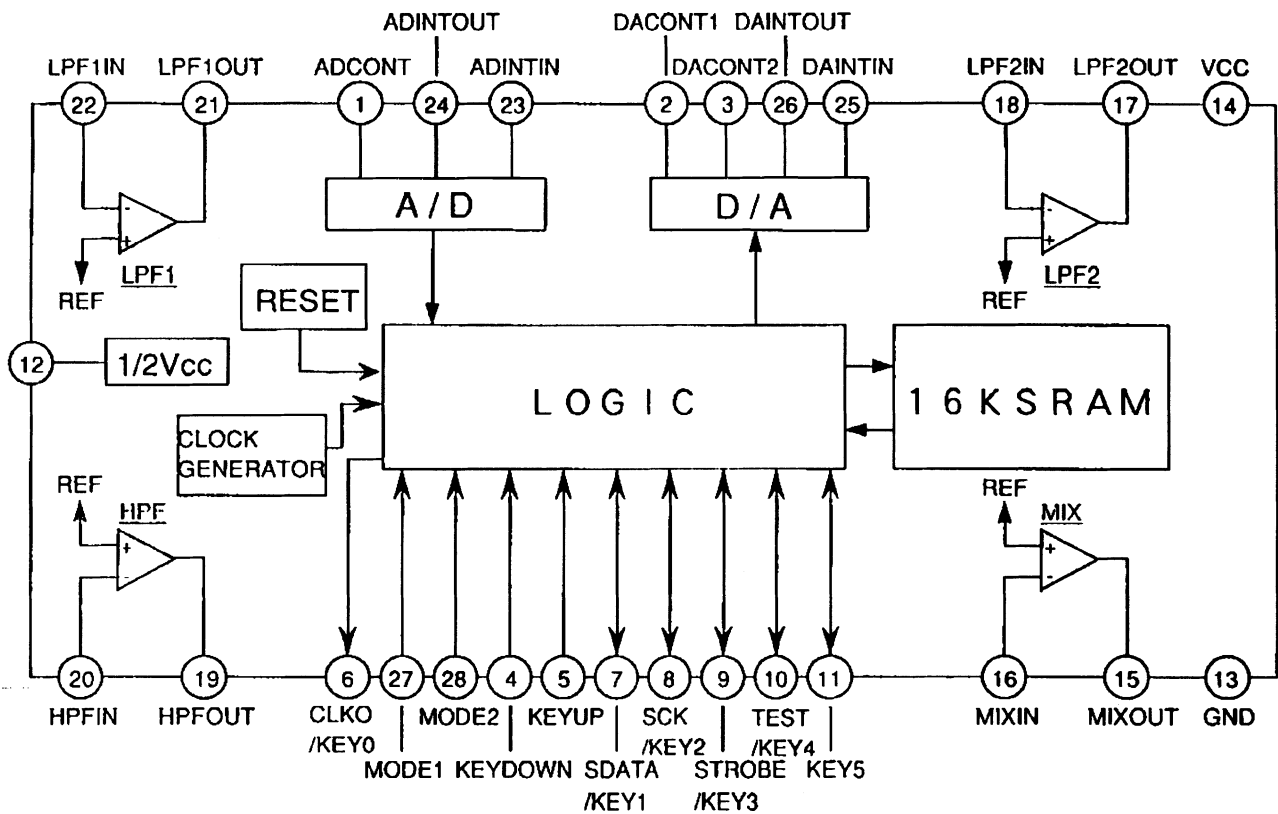
IC, BU2099FV



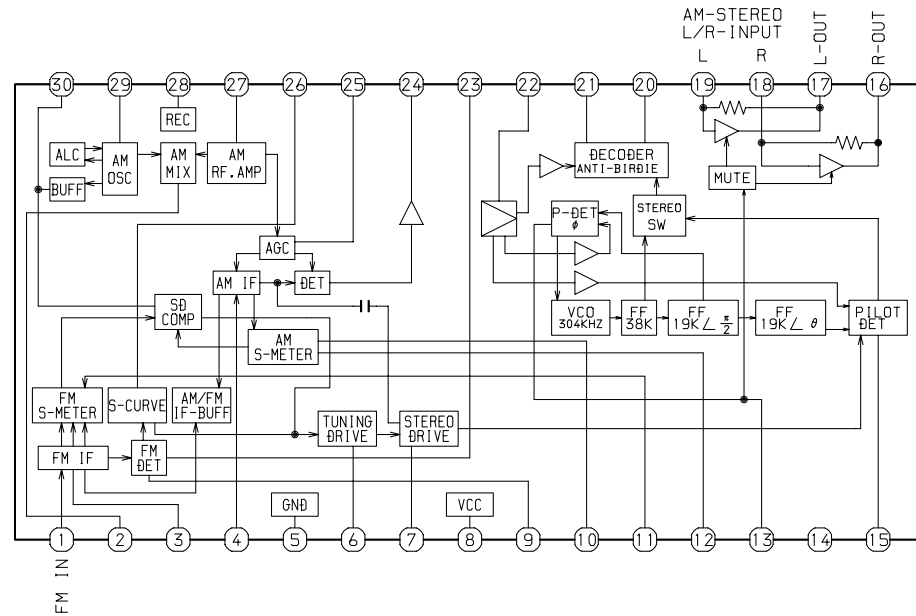
IC, M62449FP



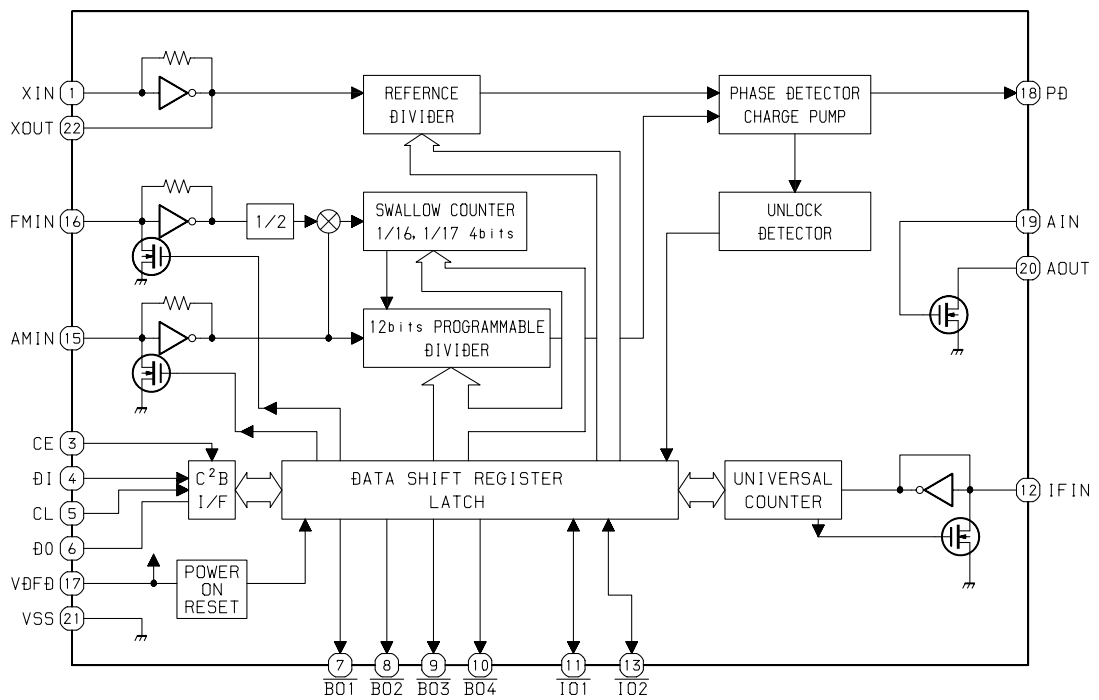
IC, M65847AFP



IC, LA1837NL



IC, LC72131D



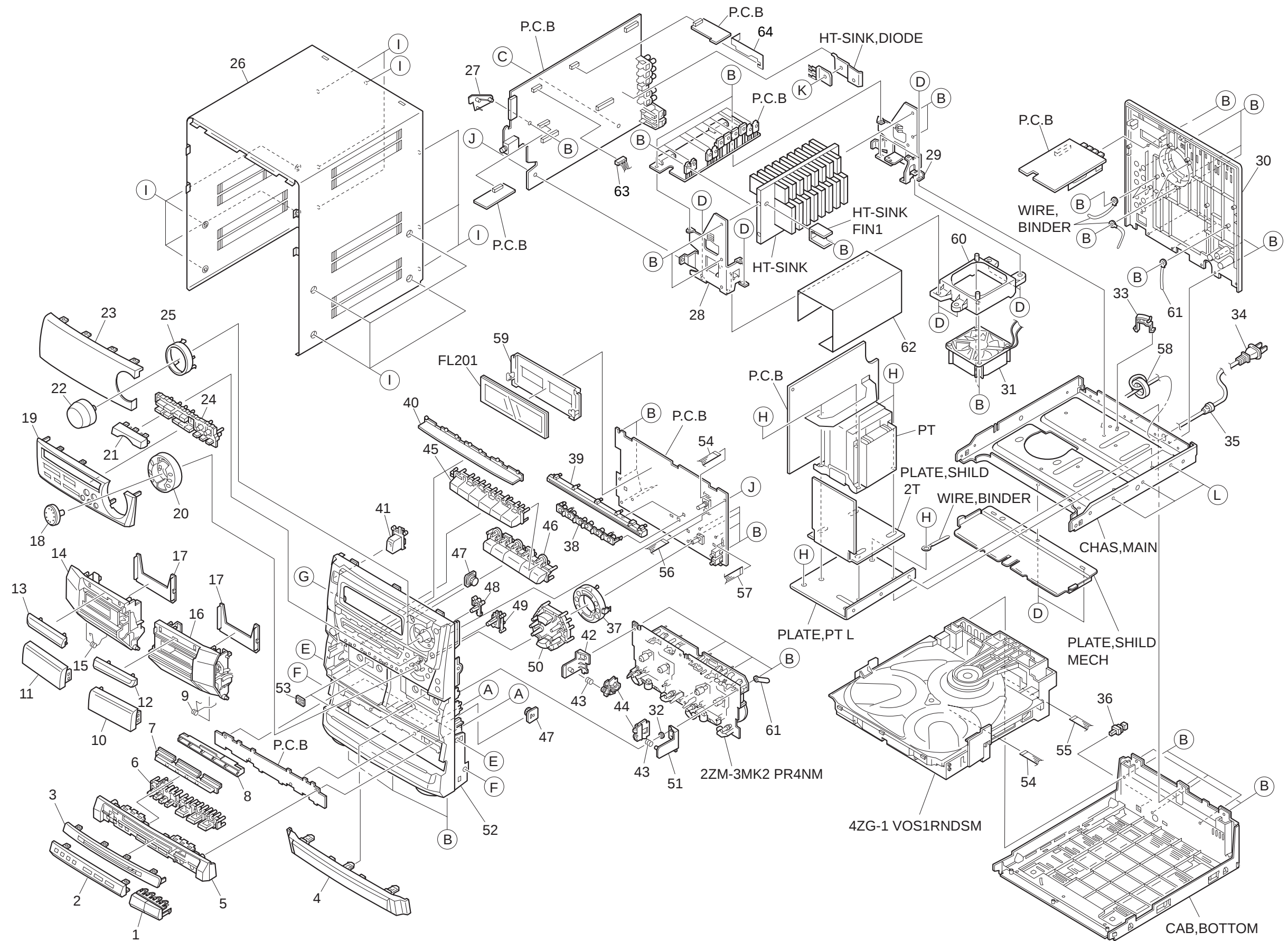
MECHANICAL PARTS LIST 1/1

DESCRIPTIONで判断できない物は "REFERENCE NAME LIST" を参照してください。
If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

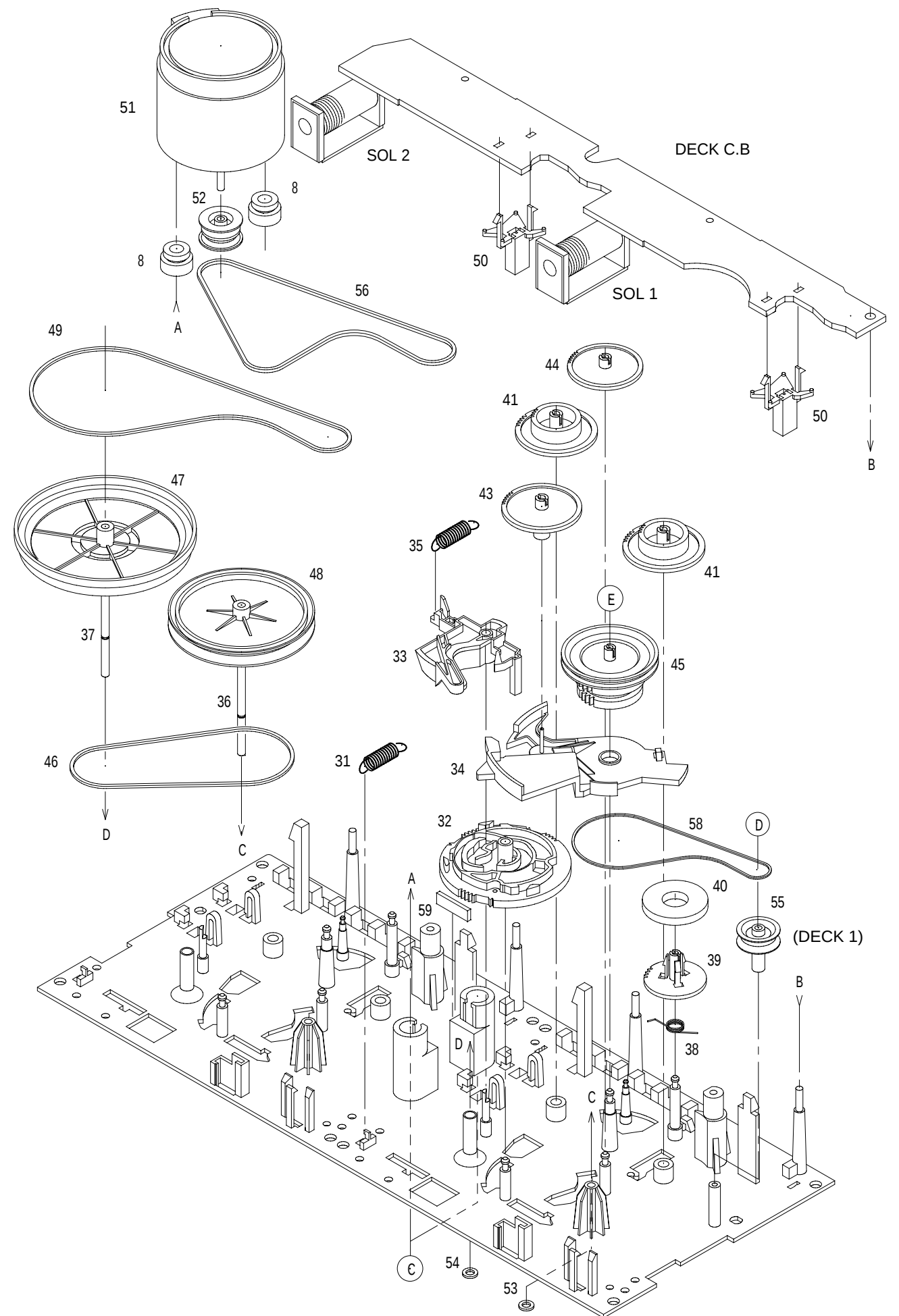
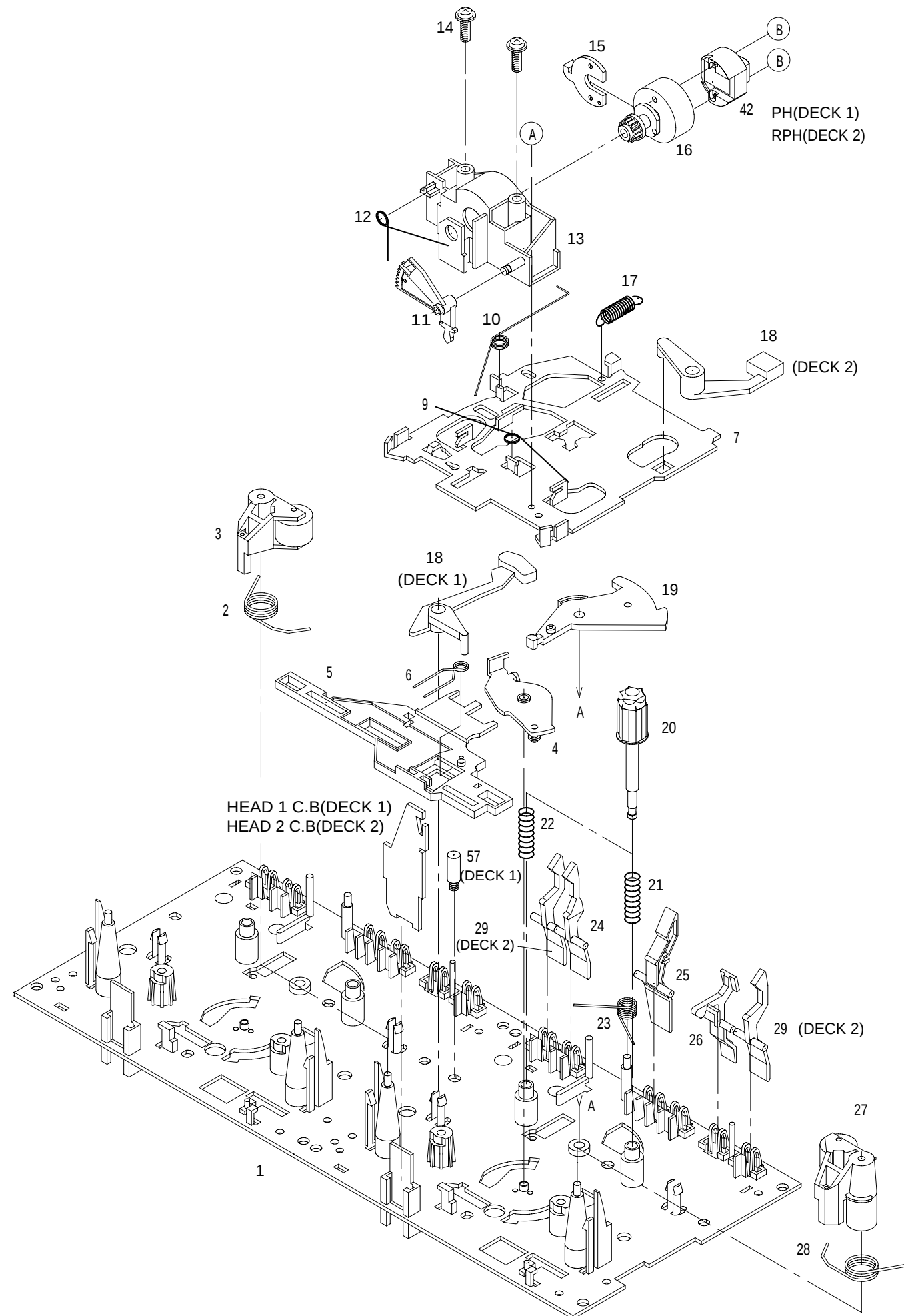
REF. NO	PART NO.	KANRI NO.	DESCRIPTION	REF. NO	PART NO.	KANRI NO.	DESCRIPTION
1	8Z-NF5-022-010		KEY, OPEN	41	8Z-NF5-020-010		KEY, ASSY POWER
2	8Z-NF5-073-010		PANEL, DISC	42	87-NF4-216-010		HLDR, LOCK 1
3	8Z-NF5-012-010		PANEL, CD	43	86-NF9-224-010		SPR-C, LOCK
4	8Z-NH5-004-010		PANEL, TRAY VCD	44	82-NF5-229-010		PLATE, LOCK
5	8Z-NF5-057-010		PANEL, DIRECT	45	8Z-NF5-043-010		KEY, FUN
6	8Z-NF5-030-010		KEY, DISC	46	8Z-NF5-035-010		KEY, ASSY OPE
7	8Z-NF5-027-010		REFLECTOR, CD	47	87-NF8-220-010		DMPR, 150
8	8Z-NF5-203-010		GUIDE, CD	48	8Z-NF5-021-010		KEY, MIC
9	8Z-NF5-219-010		SPR-T, EJECT 2 (SIN)	49	8Z-NF5-018-010		KEY, ECHO
10	8Z-NF5-011-010		WINDOW, CASS 2	50	8Z-NF5-050-010		KEY, ASSY JOG
11	8Z-NF5-010-010		WINDOW, CASS 1	51	87-NF4-217-110		HLDR, LOCK 2
12	8Z-NF5-008-010		PANEL, CASS 2	52	8Z-NF5-001-010		CABI, FR U
13	8Z-NF5-007-010		PANEL, CASS 1	53	81-532-080-010		LABEL, CASS. COMPT
14	8Z-NF5-002-010		BOX, CASS 1	54	88-913-551-110		FF-CABLE, 13P 1.25 550MM
15	8Z-NF5-218-010		SPR-T, EJECT 1 (SIN)	55	88-906-601-110		FF-CABLE, 6P 1.25 600MM
16	8Z-NF5-003-010		BOX, CASS 2	56	88-915-181-110		FF-CABLE, 15P 1.25
17	86-NF6-061-010		REFLECTOR, CASS	57	88-906-301-110		FF-CABLE, 6P-1.25
18	8Z-NF5-016-010		KNOB, RTRY JOG	58	87-003-317-010		F-BEAD, 15-25-15 E251
19	8Z-NH5-003-010		PANEL, FR VCD	59	88-NF5-204-010		GUIDE, FL
20	8Z-NF5-015-010		PANEL, JOG	60	8Z-NF5-219-110		HLDR, FAN
21	8Z-NF5-042-010		PANEL, FUN	61	87-064-185-010		HLDR, WIRE
22	8Z-NF5-014-010		KNOB, RTRY VOL	62	8Z-NF5-221-010		COVER, PWB PT
23	8Z-NH5-005-010		WINDOW, DISPLAY VCD	63	87-NF6-616-010		CONN ASSY, 8P RPB
24	8Z-NH5-010-010		KEY, VCD	64	8Z-NH8-201-010		HLDR, PWB
25	8Z-NF5-013-010		RING, VOL	PT	8Z-NF5-603-010		PT, HE ZNF-5
26	8Z-NF5-032-010		CABI, STEEL HR	A	87-067-758-010		BVT2+3-12 W/O SLOT
27	88-NF5-208-010		HLDR, PWB-M N	B	87-067-703-010		TAPPING SCREW, BVT2+3-10
28	8Z-NF5-214-110		HLDR, HT F	C	87-NF4-224-010		S-SCREW, IT3B+3-8 CU
29	8Z-NF5-215-110		HLDR, HT R	D	87-067-688-010		BVTT+3-6
30	8Z-NH5-011-010		CABI, REAR HRJSNM	E	87-591-094-410		TAPPING SCREW, QIT+3-6
31	87-A91-314-010		FAN, 3110GL-B4W-B34-H02	F	87-721-097-410		QT2+3-12 GLD
32	82-NE8-215-010		W 4.2-6.8-0.18	G	87-723-096-410		QT2+3-10W/O SLOT BL
33	87-NF4-221-010		HLDR, CABLE	H	87-078-191-010		S-SCREW, IT+4-10
34	87-050-079-010		AC-CORD ASSY, E	I	87-B10-091-010		UTT2+3-10 W/O SLOT BLK
35	87-085-185-010		BUSHING, AC CORD (E)	J	87-067-584-010		TAPPING SCREW, BVT2+3-6
36	84-ZG1-245-210		CAP, OPTICAL	K	87-067-579-010		TAPPING SCREW, BVT2+3-8
37	8Z-NF5-202-010		GUIDE, JOG	L	87-591-095-410		TAPPING SCREW, QIT+3-8 (GLD)
38	8Z-NF5-208-010		GUIDE, OPE				
39	8Z-NF5-201-010		GUIDE, FUN				
40	8Z-NF5-026-010		REFLECTOR, FUN				

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		



TAPE MECHANISM EXPLODED VIEW 1/1

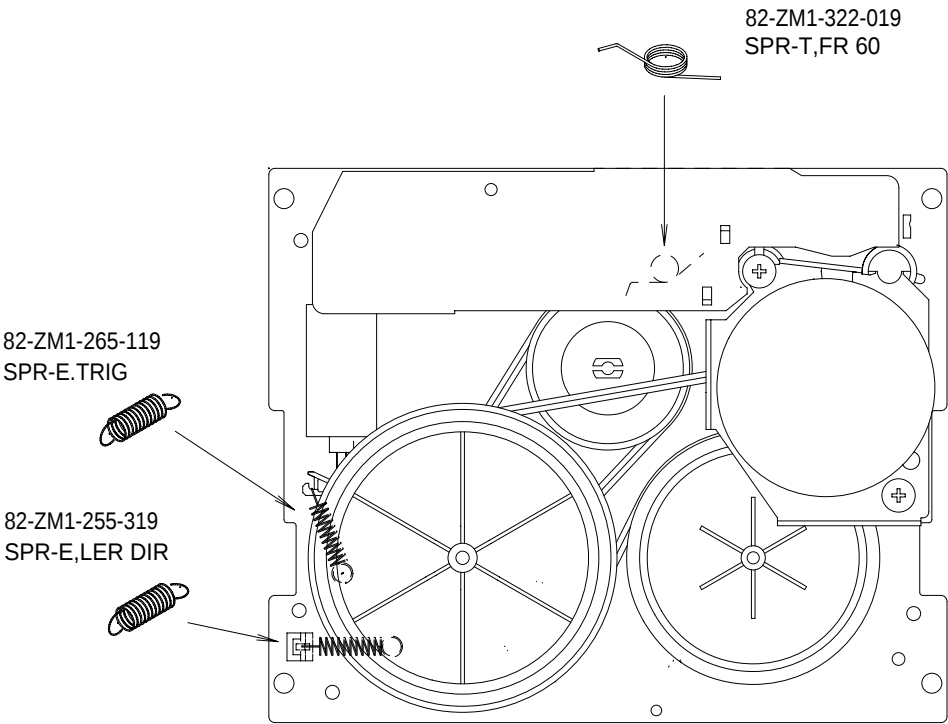
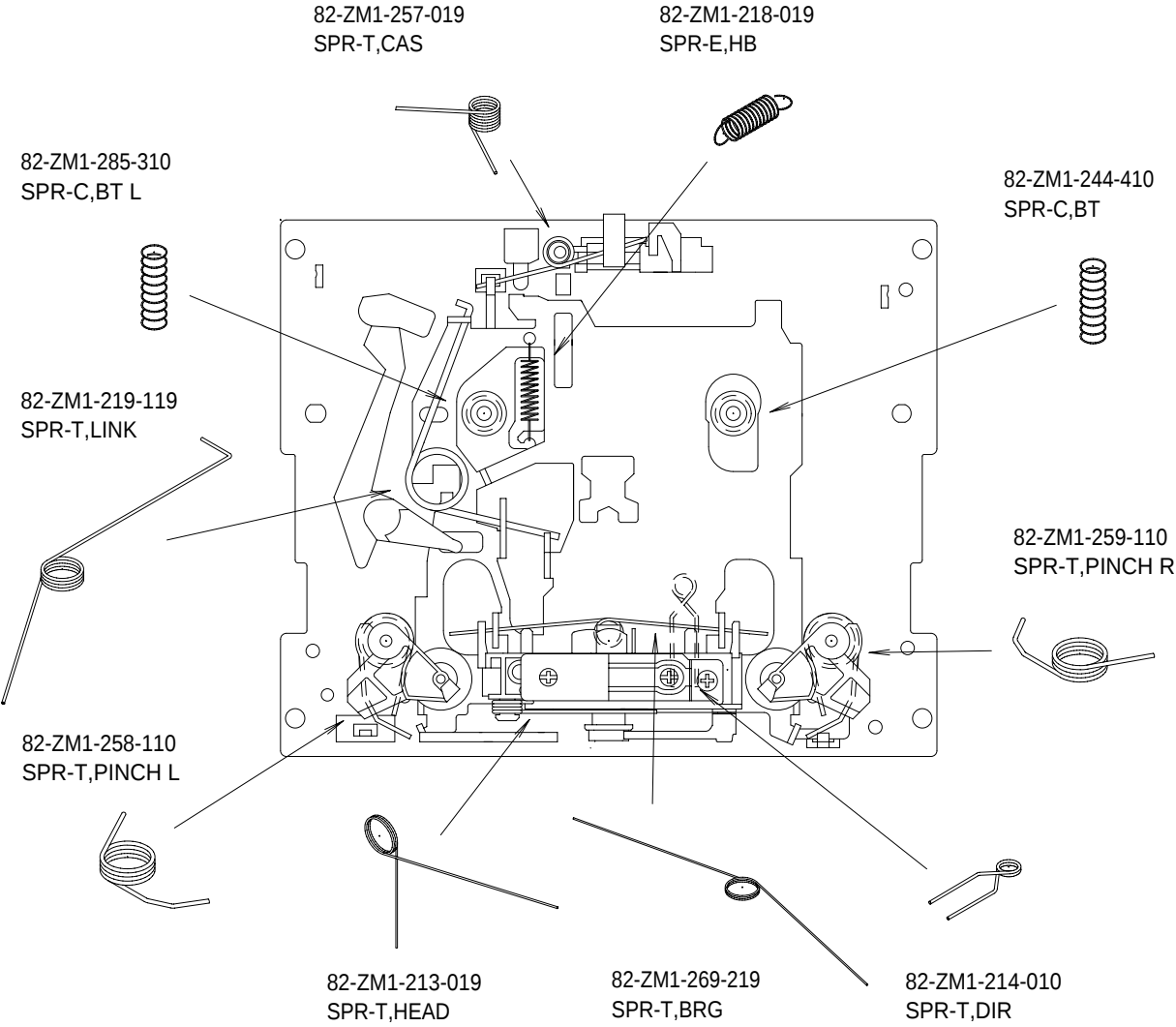


TAPE MECHANISM PARTS LIST 1/1

DESCRIPTIONで判断できない物は "REFERENCE NAME LIST" を参照してください。
If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

REF. NO	PART NO.	KANRI NO.	DESCRIPTION	REF. NO	PART NO.	KANRI NO.	DESCRIPTION
1	82-ZM3-301-519		CHAS ASSY,M2	36	82-ZM1-236-019		CAPSTAN N 2-41.5
2	82-ZM1-258-110		SPR-T,PINCH L	37	82-ZM1-239-019		CAPSTAN N 2.2-41.7
3	82-ZM1-341-110		LVR ASSY,PINCH L2	38	82-ZM1-322-019		SPR-T,FR60
4	82-ZM1-333-010		PLATE,LINK 2	39	82-ZM1-220-219		GEAR,IDLER
5	82-ZM1-266-11K		LVR,DIR	40	82-ZM3-616-019		RING MAGNET 4
6	82-ZM1-214-010		SPR-T,DIR	41	82-ZM1-216-31K		GEAR,REEL
7	82-ZM1-206-81K		CHAS,HEAD	42	87-A90-319-010		HEAD,PH HADKH2 FPC
8	82-ZM3-307-019		CUSH-G,DIA3.7-8-3.2	42	87-A90-320-010		HEAD,RPH HADKH5 FPC
9	82-ZM1-269-219		SPR-T,BRG	43	82-ZM1-225-21K		GEAR,FR
10	82-ZM1-219-119		SPR-T,LINK	44	82-ZM1-226-019		GEAR,REW
11	82-ZM1-210-119		GEAR,H T	45	82-ZM3-333-310		SLIP DISK ASSY 2
12	82-ZM1-213-019		SPR-T,HEAD	46	82-ZM1-338-010		BELT FR4
13	82-ZM1-207-619		GUIDE,TAPE	47	82-ZM1-349-110		FLY-WHL,R W(DECK 2)
14	86-ZM4-206-010		S-SCREW,AZIMUTH	47	82-ZM3-338-110		FLY-WHL,R3 W(DECK 1)
15	82-ZM1-314-119		PLATE,HEAD	48	82-ZM1-348-010		FLY-WHL,L W(DECK 2)
16	82-ZM1-208-119		HLDR,HEAD	48	82-ZM1-348-010		FLY-WHL,L W(DECK 1)
17	82-ZM1-218-019		SPR-E,HB	49	82-ZM3-329-210		BELT,SBU R2
18	82-ZM1-263-110		LVR,EJECT L (DECK 1)	50	82-ZM1-245-210		HLDR,IC
18	82-ZM1-264-010		LVR,EJECT R (DECK 2)	51	87-045-347-019		MOT,SHU2L 70(M1)
19	82-ZM1-222-21K		LVR,PLAY	52	82-ZM3-221-010		PULLEY,MOT 2M
20	82-ZM1-217-319		REEL TABLE	53	82-ZM1-288-019		SH,1.63-3.2-0.5 SLT
21	82-ZM1-244-510		SPR-C,BT	54	80-ZM6-243-019		SH,1.75-3.6-0.5 SLT
22	82-ZM1-285-310		SPR-C,BT L	55	82-ZM3-335-210		PULLEY,COUPLER M3(DECK 1)
23	82-ZM1-257-019		SPR-T,CAS	56	82-ZM3-337-010		BELT,SBU MOT 2
24	82-ZM1-241-319		LVR,MC	57	82-ZM3-339-010		SHAFT,COUPLER N3(DECK 1)
25	82-ZM1-242-019		LVR,CAS	58	86-ZM1-206-010		BELT,MAIN L
26	82-ZM1-243-019		LVR,STOP	59	82-ZM3-340-010		SH,BELT D2
27	82-ZM1-344-110		LVR ASSY,PINCH R2	A	85-ZM3-202-010		S-SCREW,TG
28	82-ZM1-259-110		SPR-T,PINCH R	B	80-ZM6-207-019		V+1.6-7
29	82-ZM1-240-11K		LVR,REC (DECK 2)	C	82-ZM3-318-019		S-SCRW MOTOR M2
31	82-ZM1-255-319		SPR-E,LVR DIR	D	87-B10-043-010		W-P,0.99-4-0.25 SLT
32	82-ZM3-305-01K		GEAR,CAM M2	E	82-ZM3-334-010		PW,2.16-6-0.4
33	82-ZM1-227-21K		LVR,TRIG				
34	82-ZM3-306-11K		LVR,FR M2				
35	82-ZM1-265-119		SPR-E,TRIG				

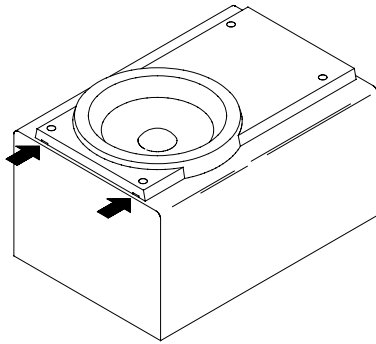
SPRING APPLICATION POSITION



SPEAKER DISASSEMBLY INSTRUCTIONS

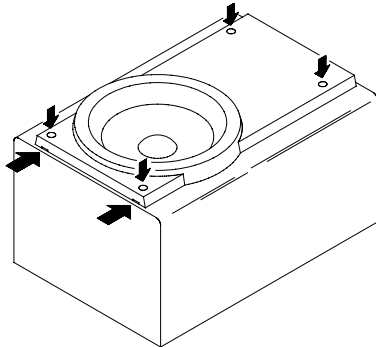
Type.1

Insert a flat-bladed screwdriver into the position indicated by the arrows and remove the panel. Remove the screws of each speaker unit and then remove the speaker units.



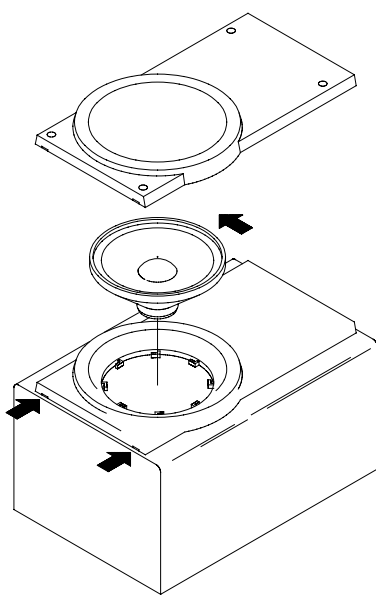
Type.2

Remove the grill frame and four pieces of rubber caps by pulling out with a flat-bladed screwdriver. Remove the screws from hold where installed rubber caps. Insert a flat-bladed screwdriver into the position indicated by the arrows and remove the panel. Remove the screws of each speaker unit and then remove the speaker units.

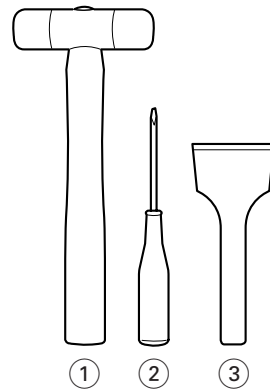


Type.3

Insert a flat-bladed screwdriver into the position indicated by the arrows and remove the panel. Turn the speaker unit to counter-clockwise direction while inserting a flat-bladed screwdriver into one of the hollows around speaker unit, and then remove the speaker unit. After replacing the speaker unit, install it turning to clockwise direction until "click" sound comes out.



Type.4



TOOLS

- ① Plastic head hammer
- ② (⊖) flat head screwdriver
- ③ Cut chisel

How to Remove the PANEL, FR

1. Insert the (⊖) flat head screwdriver tip into the gap between the PANEL, FR and the PANEL, SPKR. Tap the head of the (⊖) flat head screwdriver with the plastic hammer head, and create the clearance as shown in Fig-1.
2. Insert the cut chisel in the clearance, and tap the head of the cut chisel with plastic hammer as shown in Fig-2, to remove the PANEL, FR.
3. Place the speaker horizontally. Tap head of the cut chisel with plastic hammer as shown in Fig-3, and remove the PANEL, FR completely.

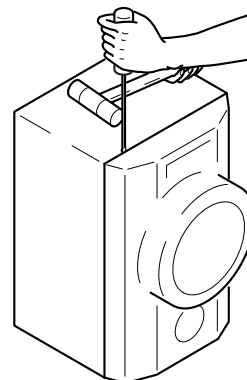


Fig-1

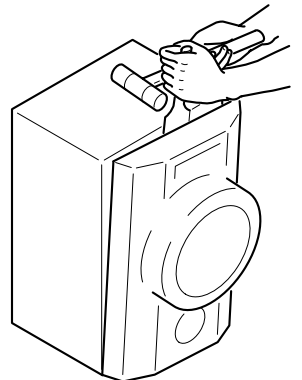


Fig-2

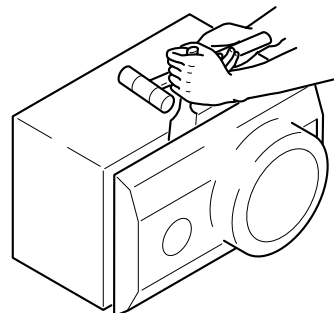


Fig-3

How to Attach the PANEL, FR

Attach the PANEL, FR to the PANEL, SPKR. Tap the four corners of the PANEL, FR with the plastic hammer to fit the PANEL, FR into the PANEL, SPKR completely.

SPEAKER PARTS LIST 1/1

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REF. NO	PART NO.	KANRI NO.	DESCRIPTION
1	88-NS5-610-010		CORD, SPKR
2	88-NS5-611-010		CORD, SPKR B/L
3	8Z-NS5-010-010		GRILLE, FRAME ASSY
4	8Z-NS5-001-010		PANEL, FR WNS999
5	8Z-NS5-002-010		PANEL, SP WNS999
6	8Z-NS5-005-010		PANEL, STAND WNS999
7	8Z-NS5-004-010		PANEL, TOP WNS999
8	8Z-NS5-006-010		PROTECTOR, WNS999
9	8Z-NSY-608-010		SPKR, CERAMIC ASSY (SWNH33)
10	8Z-NS5-604-010		SPKR, M 120
11	88-NS5-605-110		SPKR, T 60
12	88-NS5-602-010		SPKR, W 200

ACCESSORIES/PACKAGE LIST

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REF. NO	PART NO.	KANRI NO.	DESCRIPTION
1	8Z-NH5-911-010		IB, H(EC-H)M
2	8Z-NH8-702-010		RC UNIT, RC-ZAS07
3	87-043-115-010		ANT, FEEDER FM
4	87-A90-054-010		ANT, LOOP AM-CON C
5	87-050-103-010		CORD, PIN 1PY1.5M
⚠	6	87-A91-017-010	PLUG, CONVERSION JT-0476



サービス技術ニュース	
番号	連絡内容
Gー ー	
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Gー ー	

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