

SERVICE MANUAL

COMPACT DISC STEREO
CASSETTE RECEIVER

BASIC TAPE MECHANISM : 2ZM-3MK2 PR5NM
BASIC CD MECHANISM : 6ZG-1 VZRDM

SYSTEM	CD CASSEIVER	SPEAKER	REMOTE CONTROLLER
Z-KD770	CX-ZKD770	SX-ZHT730 SX-CR677	RC-ZAS08
Z-KD970	CX-ZKD970	SX-ZHT930 SX-CR677	

- This Service Manual is the "Revision Publishing" and replaces "Simple Manual" Z-KD770/KD970, (S/M Code No. 09-005-434-5T1).
- If requiring information about the CD mechanism, see Service Manual of 6ZG-1, (S/M Code No. 09-001-338-7N2).

aiwa

S/M Code No. 09-008-434-5R1

REVISION

DATA

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	Front Rated: 120 W + 120 W<770> Rated: 150 W + 150 W<970> (6 ohms, T.H.D. 1 %, 1 kHz) Reference: 150 W + 150 W<770> Reference: 180 W + 180 W<970> (6 ohms, T.H.D. 10 %, 1 kHz)
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Rear (Surround)

Rated: 33 W + 33 W
(8 ohms, T.H.D. 1 %, 1 kHz)
Reference: 40 W + 40 W
(8 ohms, T.H.D. 10 %, 1 kHz)

Centre

Rated: 34 W
(8 ohms, T.H.D. 1 %, 1 kHz)
Reference: 40 W
(8 ohms, T.H.D. 10 %, 1 kHz)

Total harmonic distortion	0.15 % (60 W, 1 kHz, 6 ohms, DIN AUDIO/Front)
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Inputs	VIDEO/AUX: 310 mV (adjustable) PHONO: 400 mV (47 kohms) MIC1, MIC2: 1.4 mV (20 kohms) 5.1CH INPUT (adjustable) FRONT: 240 mV SURROUND: 240 mV CENTER: 600 mV SUB WOOFER: 240 mV
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Outputs	VIDEO OUT: 1.0 Vp-p (75 ohms) CD DIGITAL OUT (OPTICAL) SPEAKERS: accept speakers of 6 ohms or more SURROUND SPEAKERS: accept speakers of 8-16 ohms SUB WOOFER: 1V CENTER SPEAKER: accepts speakers of 8 ohms or more PHONES (stereo jack): accepts headphones of 32 ohms or more
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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
Signal-to-noise ratio	50 dB (CrO ₂ tape peak level, above 400 Hz)
Recording system	AC bias
Heads	Deck 1: Playback head x 1 Deck 2: Recording/playback/erase head x 1

Compact disc player section

Laser	Semiconductor laser (λ =780 nm)
D-A converter	1 bit dual
Signal-to-noise ratio	85 dB (1 kHz, 0 dB)
Harmonic distortion	0.05 % (1 kHz, 0 dB)
Wow and flutter	Unmeasurable
Video signal	NTSC/PAL color format (selectable)
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	245 W<770> 260 W<970>
Dimensions of main unit (W x H x D)	360 x 395.3 x 402.3 mm (14 ¹ / ₄ x 15 ⁵ / ₈ x 15 ⁷ / ₈ in.)
Weight of main unit	12.8 kg (28 lbs. 4 oz.)

Speaker system SX-ZHT730<770>, SX-ZHT930<970>

Cabinet type	3 way, bass reflex
Speakers	Woofer: 220 mm (8 ³ / ₄ in.) cone type Tweeter: 60 mm (2 ³ / ₈ in.) cone type Super tweeter: 20 mm (1 ³ / ₁₆ in.) ceramic type 6 ohms
Impedance	6 ohms
Output sound pressure level	89 dB/W/m
Dimensions (W x H x D)	260 x 495 x 314 mm (10 ¹ / ₄ x 19 ¹ / ₂ x 12 ³ / ₈ in.)
Weight	6.3 kg (13 lbs. 14 oz.)

- Design and specifications are subject to change without notice.

- The word "BBE" and the "BBE symbol" are trademarks of BBE Sound, Inc.
Under license from BBE Sound, Inc.

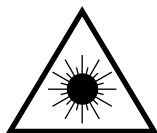
- Manufactured under license from Dolby Laboratories Licensing Corporation.
"DOLBY", the double-D symbol  and "PRO LOGIC" are trademarks of Dolby Laboratories Licensing Corporation.

PROTECTION OF EYES FROM LASER BEAM DURING SERVICING

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

WARNING!!

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



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

VAROITUS!

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

WARNING!

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

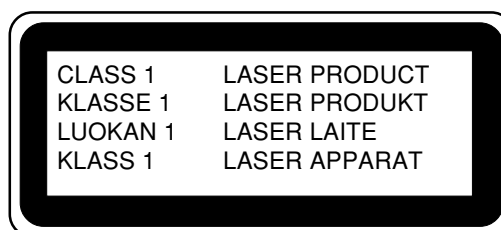
L'utilisation de commandes, réglages ou procédures autres que ceux spécifiés peut entraîner une dangereuse exposition aux radiations.

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.

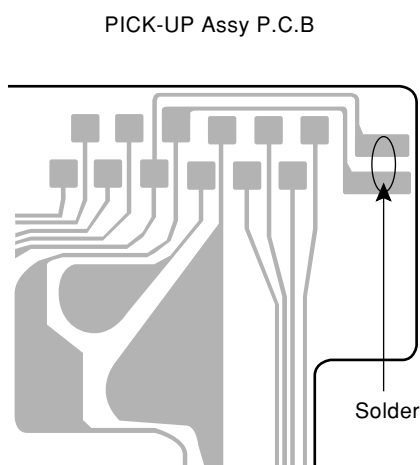


Precaution to replace Optical block

(KSS-213F)

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.



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.

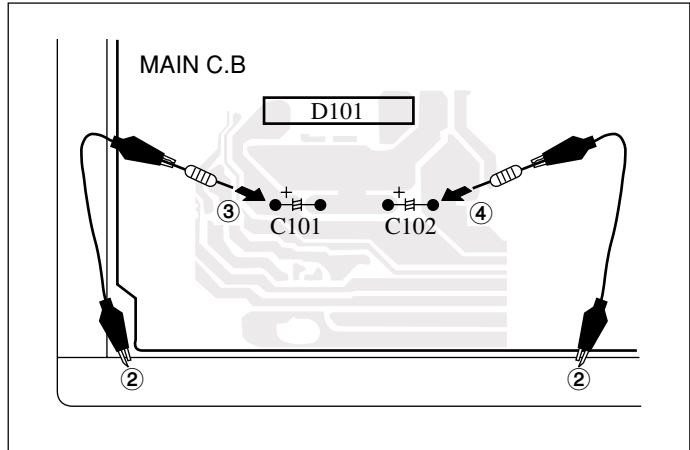


Fig-1

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.

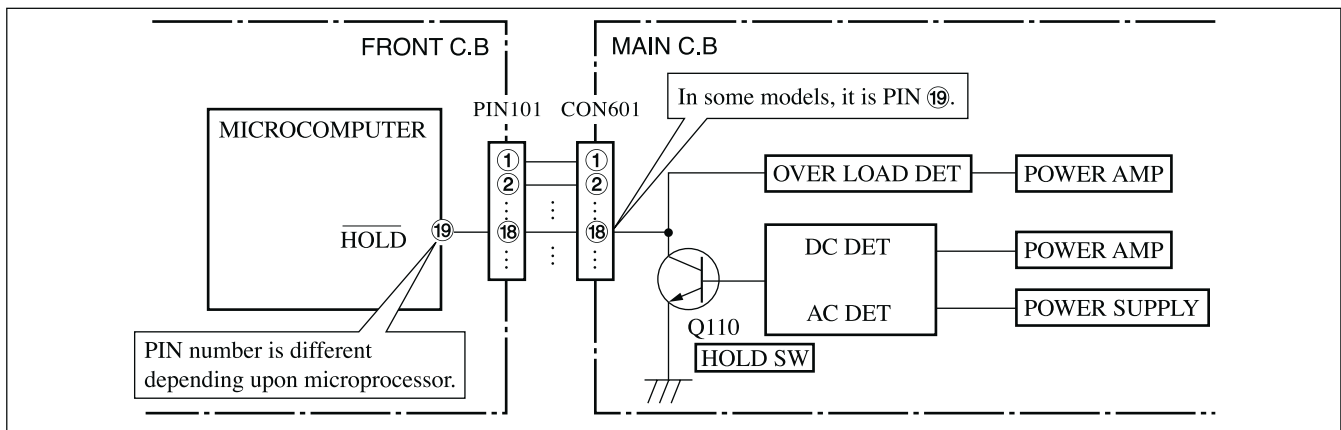


Fig-2-1

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.

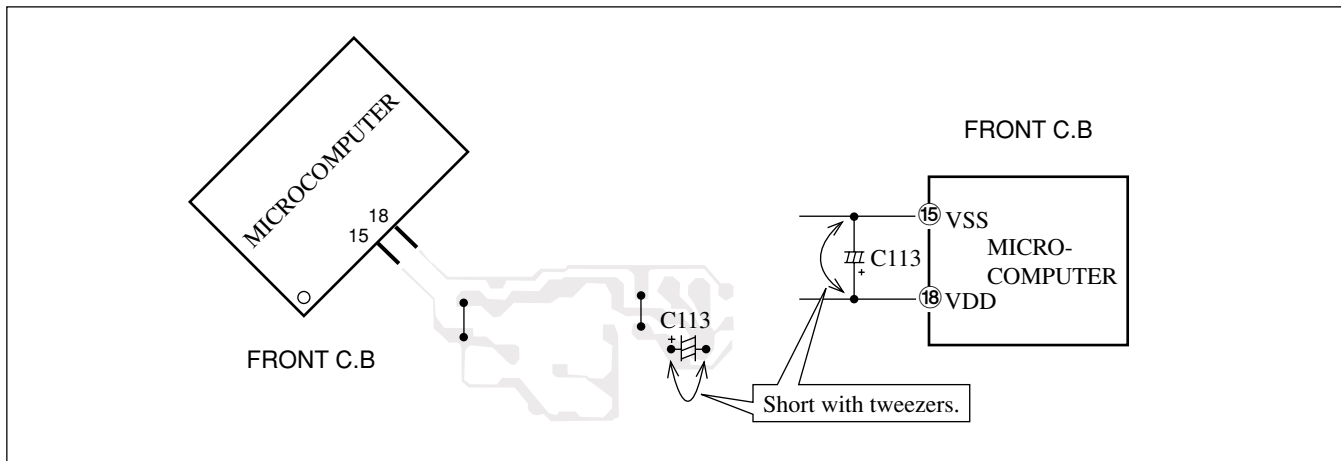


Fig-2-2

- 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.

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
C357	87-010-197-080		CAP, CHIP 0.01 DM	C463	87-010-196-080		CHIP CAPACITOR,0.1-25
C358	87-010-183-080		C-CAP,S 2700P-50 B	C465	87-012-141-080		CHIP-CAPACITOR,0.22-16F
C359	87-010-183-080		C-CAP,S 2700P-50 B	C466	87-010-194-080		CAP, CHIP 0.047
C360	87-010-183-080		C-CAP,S 2700P-50 B	C467	87-A10-201-080		C-CAP,S0.33-16 KB
C370	87-010-196-080		CHIP CAPACITOR,0.1-25	C468	87-A10-060-080		C-CAP,S 0.18-16 K B
C373	87-A11-177-080		C-CAP,S 0.15-16 K B	C478	87-010-265-080		CAP, ELECT 33-16V
C374	87-A11-177-080		C-CAP,S 0.15-16 K B	C479	87-010-179-080		CAP,CHIP S B1200P
C378	87-010-196-080		CHIP CAPACITOR,0.1-25	C480	87-010-179-080		CAP,CHIP S B1200P
C379	87-010-406-080		CAP, ELECT 22-50	C481	87-010-179-080		CAP,CHIP S B1200P
C380	87-010-406-080		CAP, ELECT 22-50	C482	87-010-179-080		CAP,CHIP S B1200P
C386	87-010-196-080		CHIP CAPACITOR,0.1-25	C483	87-010-265-080		CAP, ELECT 33-16V
C388	87-012-156-080		C-CAP,S 220P-50 CH	C489	87-010-402-080		CAP, ELECT 2.2-50V
C391	87-010-319-080		C-CAP,S 56P-50 CH	C491	87-010-402-080		CAP, ELECT 2.2-50V
C392	87-010-319-080		C-CAP,S 56P-50 CH	C492	87-010-402-080		CAP, ELECT 2.2-50V
C393	87-010-319-080		C-CAP,S 56P-50 CH	C531	87-010-405-080		CAP, E 10-50 M 11L SME
C394	87-010-319-080		C-CAP,S 56P-50 CH	C532	87-010-196-080		CAP, S 0.1-25 ZF
C401	87-010-176-080		C-CAP,S 680P-50 SL	C533	87-010-196-080		CAP, S 0.1-25 ZF
C402	87-010-176-080		C-CAP,S 680P-50 SL	C534	87-012-156-080		CAP, S 220P-50 J CH GRM
C403	87-010-958-080		CHIP -CAP,S 0.01-25BJ	C535	87-010-178-080		CAP, S 1000P-50 K B
C404	87-010-958-080		CHIP -CAP,S 0.01-25BJ	C536	87-010-196-080		CAP, S 0.1-25 ZF
C405	87-010-958-080		CHIP -CAP,S 0.01-25BJ	C541	87-010-178-080		C-CAP, S 1000P-50 K B
C406	87-010-958-080		CHIP -CAP,S 0.01-25BJ	C611	87-010-956-080		CHIP-CAP,S 0.068-25B
C407	87-010-401-080		CAP, ELECT 1-50V	C612	87-010-369-080		C-CAP,S 0.033-25 K B
C408	87-010-401-080		CAP, ELECT 1-50V	C613	87-010-190-080		S CHIP F 0.01
C409	87-010-196-080		CHIP CAPACITOR,0.1-25	C614	87-016-669-080		C-CAP,S 0.1-25 K B
C410	87-010-384-080		CAP, ELECT 100-25V	C616	87-010-185-080		C-CAP,S 3900P-50 K B
C411	87-010-402-080		CAP, ELECT 2.2-50V	C617	87-010-194-080		C-CAP,S 0.047-25 ZF
C412	87-010-402-080		CAP, ELECT 2.2-50V	C618	87-010-401-080		CAP, ELECT 1-50V
C413	87-010-401-080		CAP, ELECT 1-50V	C619	87-010-263-080		CAP, ELECT 100-10V
C414	87-010-401-080		CAP, ELECT 1-50V	C620	87-016-669-080		C-CAP,S 0.1-25 K B
C415	87-010-546-080		CAP, ELECT 0.33-50V	C621	87-010-197-080		CAP, CHIP 0.01 DM
C416	87-010-546-080		CAP, ELECT 0.33-50V	C623	87-010-401-080		CAP, ELECT 1-50V
C417	87-010-221-080		CAP, ELECT 470-10V	C624	87-010-401-080		CAP, ELECT 1-50V
C418	87-A10-891-080		CAP,E 4.7-25 SME(K)	C626	87-A11-590-080		C-CAP,S 0.047-16 K B
C419	87-A10-800-080		C-CAP,S 6800P-16 J B CM	C627	87-010-400-080		CAP, ELECT 0.47-50V
C420	87-010-374-080		CAP, ELECT 47-10V	C628	87-010-400-080		CAP, ELECT 0.47-50V
C421	87-010-196-080		CHIP CAPACITOR,0.1-25	C629	87-A11-590-080		C-CAP,S 0.047-16 K B
C422	87-A10-804-080		C-CAP,S 0.1-25 J B	C630	87-010-383-080		CAP, ELECT 33-25
C423	87-010-374-080		CAP, ELECT 47-10V	C631	87-010-185-080		C-CAP,S 3900P-50 B
C424	87-010-374-080		CAP, ELECT 47-10V	C632	87-010-185-080		C-CAP,S 3900P-50 B
C425	87-010-196-080		CHIP CAPACITOR,0.1-25	C634	87-010-196-080		CHIP CAPACITOR,0.1-25
C430	87-012-142-080		CAP, S 0.33-16	C635	87-A10-307-080		CAP-M 0.1-50 J
C431	87-010-971-080		C-CAP,S 4700P-50 B J	C636	87-A10-307-080		CAP-M 0.1-50 J
C432	87-010-178-080		CHIP CAP 1000P	C637	87-A10-307-080		CAP-M 0.1-50 J
C433	87-A11-183-080		C-CAP,S 0.12-16 J B	C638	87-A10-307-080		CAP-M 0.1-50 J
C434	87-A11-182-080		C-CAP,S 0.27-16 J B	C639	87-010-405-080		CAP, ELECT 10-50V
C435	87-A11-182-080		C-CAP,S 0.27-16 J B	C643	87-010-196-080		C-CAP,S 0.1-25 ZF
C436	87-A11-183-080		C-CAP,S 0.12-16 J B	C644	87-010-401-080		CAP, ELECT 1-50V
C437	87-010-971-080		C-CAP,S 4700P-50 B J	C645	87-012-156-080		C-CAP,S 220P-50 J CH GRM
C438	87-010-178-080		CHIP CAP 1000P	C671	87-010-322-080		C-CAP,S 100P-50 CH
C439	87-010-805-080		CAP, S 1-16	C672	87-010-322-080		C-CAP,S 100P-50 CH
C440	87-010-401-080		CAP, ELECT 1-50V	C673	87-010-190-080		S CHIP F 0.01
C441	87-A10-799-080		C-CAP,S 5600P-16 J B CM	C679	87-010-196-080		CHIP CAPACITOR,0.1-25
C442	87-A10-802-080		C-CAP,S 0.047-16 J B CM	C680	87-010-190-080		CHIP CAPACITOR,0.01-50 ZF
C443	87-A10-229-080		C-CAP,S 0.68-10 K W5	C685	87-010-197-080		C-CAP,S 0.01-25 KB
C444	87-016-460-080		C-CAP,S 0.22-16 B	C771	87-010-263-080		CAP, ELECT 100-10V
C445	87-016-460-080		C-CAP,S 0.22-16 B	C772	87-010-197-080		CAP, CHIP 0.01 DM
C446	87-010-404-080		CAP, ELECT 4.7-50V	C782	87-010-197-080		CAP, CHIP 0.01 DM
C447	87-010-404-080		CAP, ELECT 4.7-50V	C783	87-010-197-080		CAP, CHIP 0.01 DM
C448	87-016-460-080		C-CAP,S 0.22-16 B	C784	87-010-197-080		CAP, CHIP 0.01 DM
C449	87-016-460-080		C-CAP,S 0.22-16 B	C785	87-010-197-080		CAP, CHIP 0.01 DM
C450	87-016-081-080		C-CAP,S 0.1-16 RK	C786	87-010-197-080		CAP, CHIP 0.01 DM
C451	87-A10-802-080		C-CAP,S 0.047-16 J B CM	C788	87-010-149-080		C-CAP,S 5P-50 CH
C452	87-A10-802-080		C-CAP,S 0.047-16 J B CM	C789	87-A12-052-080		C-CAP,S 0.033-25 J B
C453	87-016-081-080		C-CAP,S 0.1-16 RK	C790	87-A12-052-080		C-CAP,S 0.033-25 J B
C454	87-016-081-080		C-CAP,S 0.1-16 RK	C791	87-010-196-080		CHIP CAPACITOR,0.1-25
C455	87-A10-801-080		C-CAP,S 0.022-16 J B CM	C792	87-010-197-080		CAP, CHIP 0.01 DM
C456	87-A10-801-080		C-CAP,S 0.022-16 J B CM	C793	87-010-404-080		CAP, ELECT 4.7-50V
C457	87-016-081-080		C-CAP,S 0.1-16 RK	C795	87-010-197-080		CAP, CHIP 0.01 DMXX
C461	87-010-196-080		CHIP CAPACITOR,0.1-25	C796	87-010-197-080		CAP, CHIP 0.01 DM

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
C797	87-010-405-080		CAP, ELECT 10-50V	J101	87-A60-483-010		JACK,DIA6.3 BLK ST W/S KM
C798	87-010-197-080		CAP, CHIP 0.01 DM	J102	87-A60-238-010		TERMINAL,SP 4P (MSC)
C799	87-010-407-080		CAP, ELECT 33-50V	J431	87-A61-069-010		JACK,PIN 6P R/W,R/W, O/B MSC
C800	87-010-194-080		CAP, CHIP 0.047	J603	87-A60-926-010		JACK,PIN 4P R/W TC58-118
C801	87-010-403-080		CAP, ELECT 3.3-50V	J831	87-A60-202-010		TERMINAL,ANT 4P MSP-154V-02
C802	87-010-194-080		CAP, CHIP 0.047	L101	87-A50-610-010		COIL,1UH-K
C803	87-010-198-080		CAP, CHIP 0.022	L102	87-A50-610-010		COIL,1UH-K
C804	87-010-263-080		CAP, ELECT 100-10V	L301	87-A50-049-010		COIL,TRAP 85K(COI)
C807	87-010-400-080		CAP, ELECT 0.47-50V	L302	87-A50-049-010		COIL,TRAP 85K(COI)
C808	87-010-401-080		CAP, ELECT 1-50V	L351	87-007-342-010		COIL,OSC 85K BIAS
C809	87-010-401-080		CAP, ELECT 1-50V	L801	87-A50-540-010		COIL,FM DET(TOK)
C810	87-010-196-080		CHIP CAPACITOR,0.1-25	L802	87-A91-551-010		FLTR,PCFJZH-450 L(TOK)
C811	87-010-403-080		CAP, ELECT 3.3-50V	L811	87-005-847-080		COIL,2.2UH(CECS)
C812	87-010-403-080		CAP, ELECT 3.3-50V	L832	87-005-847-080		COIL,2.2UH(CECS)
C814	87-010-197-080		CAP, CHIP 0.01 DM	L951	8A-NF8-667-010		COIL,AM PACK 4(TOK)
C815	87-010-403-080		CAP, ELECT 3.3-50V	R161	87-A00-441-050		RES,270-1/2W J RP
C816	87-010-403-080		CAP, ELECT 3.3-50V	R162	87-A00-441-050		RES,270-1/2W J RP
C819	87-010-179-080		CAP,CHIP S B1200P	R163	87-A00-441-050		RES,270-1/2W J RP
C820	87-010-179-080		CAP,CHIP S B1200P	R164	87-A00-441-050		RES,270-1/2W J RP
C821	87-010-405-080		CAP, ELECT 10-50V	R391	87-010-322-080		C-CAP,S 100P-50 CH
C823	87-010-177-080		C-CAP,S 820P-50 J SL	R407	87-022-214-080		C-RES S100K-1/10WF
C824	87-010-404-080		CAP, ELECT 4.7-50 M 11L SME	R445	87-010-195-080		C-CAP,S 0.068-25 F
C825	87-010-596-080		CAP, S 0.047-16	R790	87-010-197-080		CAP, CHIP 0.01 DM
C842	87-010-197-080		CAP, CHIP 0.01 DM	R991	87-010-322-080		C-CAP,S 100P-50 CH
C844	87-010-197-080		CAP, CHIP 0.01 DM	R993	87-010-322-080		C-CAP,S 100P-50 CH
C850	87-010-260-080		CAP, ELECT 47-25V	R995	87-010-322-080		C-CAP,S 100P-50 CH
C851	87-010-197-080		CAP, CHIP 0.01 DM	SFR351	87-A90-433-080		SFR,50K H NVZ6TLTA
C852	87-010-197-080		CAP, CHIP 0.01 DM	SFR352	87-A90-433-080		SFR,50K H NVZ6TLTA
C853	87-010-197-080		CAP, CHIP 0.01 DM	WH1	87-A90-510-010		HLDL,WIRE 2.5-9P
C858	87-010-196-080		CHIP CAPACITOR,0.1-25	X991	87-A70-061-010		VIB,XTAL 4.500MHZ CSA-309
C859	87-010-196-080		CHIP CAPACITOR,0.1-25				
C860	87-010-197-080		CAP, CHIP 0.01 DM	MICON C.B			
C959	87-010-196-080		CHIP CAPACITOR,0.1-25				
C960	87-010-196-080		CHIP CAPACITOR,0.1-25	C101	87-010-498-040		CAP,E 10-16 GAS
C961	87-010-152-080		C-CAP,S 8P-50 D CH GRM	C102	87-010-194-080		CAP, CHIP 0.047-25
C963	87-015-785-080		CHIP CAPACITOR, 0.1FZ-25Z	C103	87-010-194-080		CAP, CHIP 0.047-25
C971	87-010-381-080		CAP, ELECT 330-16V	C105	87-A11-242-040		CAP,E 220-10 M 5L SRM
C972	87-010-404-080		CAP, ELECT 4.7-50V	C106	87-A11-242-040		CAP,E 220-10 M 5L SRM
C973	87-010-197-080		CAP, CHIP 0.01 DM	C107	87-010-196-080		CHIP CAPACITOR,0.1-25
C974	87-010-197-080		CAP, CHIP 0.01 DM	C111	87-016-460-080		C-CAP,S 0.22-16 K B
C979	87-010-322-080		C-CAP,S 100P-50 CH	C112	87-010-493-040		CAP,E 0.47-50 GAS
C981	87-010-260-080		CAP, ELECT 47-25V	C113	87-010-178-080		CHIP CAP 1000P-50
C982	87-010-196-080		CHIP CAPACITOR,0.1-25	C114	87-018-209-080		CAP, TC U 0.01-50
C983	87-010-197-080		CAP, CHIP 0.01 DM	C116	87-010-196-080		CHIP CAPACITOR,0.1-25
C984	87-010-197-080		CAP, CHIP 0.01 DM	C117	87-010-174-080		C-CAP,S 470P-50 J SL
C987	87-010-197-080		CAP, CHIP 0.01 DM	C122	87-012-369-080		C-CAP,S 0.047-50F
C989	87-010-197-080		CAP, CHIP 0.01 DM	C123	87-010-408-040		CAP,E 47-50 SME
C991	87-010-312-080		C-CAP,S 15P-50 CH	C124	87-010-421-040		CAP,E 4.7-50 5L
C992	87-010-312-080		C-CAP,S 15P-50 CH	C125	87-010-421-040		CAP,E 4.7-50 5L
C993	87-010-178-080		CHIP CAP 1000P	C132	87-012-156-080		C-CAP,S 220P-50 CH
C995	87-010-178-080		CHIP CAP 1000P	C133	87-010-316-080		C-CAP,S 33P-50 CH
C997	87-010-196-080		CHIP CAPACITOR,0.1-25	C135	87-018-209-080		CAP, TC U 0.01-50
C998	87-010-260-080		CAP, ELECT 47-25V	C137	87-010-313-080		CAP, CHIP 18P-50
C999	87-A11-155-080		CAP,TC U 0.01-16 Z F	C138	87-010-196-080		CHIP CAPACITOR,0.1-25
CF831	87-008-261-010		FLTR,CF SFE10.7MA5	C171	87-010-213-080		C-CAP,S 0.015-50 B
CF832	87-008-261-010		FLTR,CF SFE10.7MA5	C172	87-010-183-080		C-CAP,S 2700P-50 B
CN1	87-A60-996-010		CONN,13P V BLK TAC-L13X-A3	C188	87-010-194-080		CAP, CHIP 0.047-25
CN91	87-A60-109-010		CONN,2P V S2M-2W	C193	87-010-197-080		CAP, CHIP 0.01 DM
CN92	87-A60-109-010		CONN,2P V S2M-2W	C251	87-010-196-080		CHIP CAPACITOR,0.1-25
CN101	87-A60-996-010		CONN,13P V BLK TAC-L13X-A3	C252	87-012-156-080		C-CAP,S 220P-50 CH
CN301	87-A60-620-010		CONN,3P V 2MM JMT	C253	87-010-322-080		C-CAP,S 100P-50 CH
CN351	87-A60-625-010		CONN,8P V 2MM JMT	C301	87-012-358-080		C-CAP,S 0.47-10 F Z
CN601	87-099-719-010		CONN,30P TYK-B(X)	C302	87-012-158-080		C-CAP,S 390P-50 J CH GRM
CN606	87-099-566-010		CONN,7P TUC-P7P-B1	C303	87-012-358-080		C-CAP,S 0.47-10 F Z
CN602	87-A60-131-010		CONN,6P V FE	C304	87-012-358-080		C-CAP,S 0.47-10 F Z
CNA1	8A-NF8-653-010		CONN ASSY,9P TID-A(480)	C305	87-010-196-080		CHIP CAPACITOR,0.1-25
CNA2	8A-MA3-640-010		CONN ASSY,3P (VM) AMA-3	C306	87-010-196-080		CHIP CAPACITOR,0.1-25
CNA3	87-049-919-010		CONN,3P V WHT EH	C310	87-010-196-080		CHIP CAPACITOR,0.1-25
FC602	88-906-321-110		FF-CABLE, 6P 1.25 320MM	C311	87-010-405-040		CAP,E 10-50
FFE831	A8-8ZA-190-030		8ZA-1 FEUNM	C411	87-012-157-080		C-CAP,S 330P-50 CH

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
C412	87-010-405-040		CAP,E 10-50	C604	87-010-178-080		CHIP CAP 1000P-50
C421	87-010-197-080		CAP, CHIP 0.01-25	C606	87-015-785-080		CHIP CAPACITOR, 0.1-25
C422	87-010-182-080		C-CAP,S 2200P-50 B	C607	87-010-060-040		CAP,E 100-16
C940	87-012-145-080		CAP, CHIP S 270P-50 J CH	C611	87-010-186-080		CAP,CHIP 4700P-50
C941	87-012-145-080		CAP, CHIP S 270P CH	C612	87-015-699-040		CAP,E 10-50
C942	87-012-145-080		CAP, CHIP S 270P CH	C651	87-010-182-080		C-CAP,S 2200P-50 B
C943	87-012-145-080		CAP, CHIP S 270P CH	C652	87-010-197-080		CAP, CHIP 0.01-25
C944	87-012-145-080		CAP, CHIP S 270P CH	C661	87-010-196-080		CHIP CAPACITOR,0.1-25
C945	87-012-145-080		CAP, CHIP S 270P CH	C662	87-010-196-080		CHIP CAPACITOR,0.1-25
C946	87-012-145-080		CAP, CHIP S 270P CH	C663	87-012-156-080		C-CAP,S 220P-50 CH
C947	87-012-145-080		CAP, CHIP S 270P CH	C664	87-012-156-080		C-CAP,S 220P-50 CH
C948	87-012-145-080		CAP, CHIP S 270P CH	C686	87-010-196-080		CHIP CAPACITOR,0.1-25
C949	87-012-145-080		CAP, CHIP S 270P CH	C692	87-010-196-080		CHIP CAPACITOR,0.1-25
C950	87-012-145-080		CAP, CHIP S 270P CH	C846	87-010-196-080		CHIP CAPACITOR,0.1-25
C951	87-012-145-080		CAP, CHIP S 270P CH	CN661	87-A60-168-010		CONN,20P H FE
C952	87-012-145-080		CAP, CHIP S 270P CH	CNA602	8A-MA3-655-010		CONN ASSY,2P V 60MM
C962	87-012-155-080		C-CAP,S 180P-50 J CH GRM	LED671	87-A40-317-080		LED,SLR-342VCT31 RED
C963	87-010-297-080		C-CAP,S 100P-50 J CH	LED672	87-A40-317-080		LED,SLR-342VCT31 RED
C966	87-010-196-080		C-CAP,S 0.1-25 ZF	LED673	87-A40-317-080		LED,SLR-342VCT31 RED
C967	87-010-197-080		C-CAP,S 0.01-25 KB	LED674	87-A40-317-080		LED,SLR-342VCT31 RED
C969	87-010-196-080		C-CAP,S 0.1-25 ZF	LED675	87-A40-317-080		LED,SLR-342VCT31 RED
C968	87-016-044-040		CAP,E 100-16 M 5L MA	LED677	87-A40-317-080		LED,SLR-342VCT31 RED
C972	87-010-182-080		C-CAP,S 2200P-50 KB	LED678	87-A40-317-080		LED,SLR-342VCT31 RED
C973	87-012-156-080		C-CAP,S 220P-50 J CH GRM	LED679	87-A40-317-080		LED,SLR-342VCT31 RED
C974	87-015-682-040		CAP,E 22-16 M 7L SRA	LED680	87-A40-619-040		LED,SLR-56PT-T31-W GRN
C975	87-010-071-040		CAP,E 1-50 M 5L SRE	LED681	87-A40-619-040		LED,SLR-56PT-T31-W GRN
C976	87-010-060-040		CAP,E 100-16 M 7L SRA	LED682	87-A40-619-040		LED,SLR-56PT-T31-W GRN
C977	87-010-197-080		C-CAP,S 0.1-25 KB	LED683	87-A40-619-040		LED,SLR-56PT-T31-W GRN
CN101	87-099-720-010		CONN,30P TYK-B(P)	LED684	87-A40-619-040		LED,SLR-56PT-T31-W GRN
CN102	87-A60-162-010		CONN,14P H FE	LED685	87-A40-619-040		LED,SLR-56PT-T31-W GRN
CN103	87-A60-168-010		CONN,20P H FE	LED686	87-A40-678-010		LED,SELU1E10CXM BLUE-DEF
CN104	87-A60-163-010		CONN,15P H FE	LED692	87-A40-678-010		LED,SELU1E10CXM BLUE-DEF
CN301	87-A60-156-010		CONN,8P H FE	S651	87-A91-624-010		SW,RTRY EC12E1240405-20MM
CNA105	8A-MA3-654-010		CONN ASSY,2P V 200MM	S805	87-A90-095-080		SW,TACT EVQ11G04M
FB001	87-A90-896-080		F-BEAD,035600STY7	S806	87-A90-095-080		SW,TACT EVQ11G04M
FC102	88-914-231-110		FF-CABLE,14P 1.25	S807	87-A90-095-080		SW,TACT EVQ11G04M
FC103	88-920-151-110		FF-CABLE,20P 1.25	S808	87-A90-095-080		SW,TACT EVQ11G04M
FC104	88-915-151-110		FF-CABLE,15P 1.25 150MM	S809	87-A90-095-080		SW,TACT EVQ11G04M
FL101	8A-MA3-651-010		FL,BJ751GNK	S810	87-A90-095-080		SW,TACT EVQ11G04M
L101	87-A50-333-010		COIL,OSC 9.43MHZ	S811	87-A90-095-080		SW,TACT EVQ11G04M
L961	87-A50-093-010		COIL,CLOCK OSC 5.76MHZ	S812	87-A90-095-080		SW,TACT EVQ11G04M
LED131	87-A40-317-080		LED,SLR-342VCT31 RED	S813	87-A90-095-080		SW,TACT EVQ11G04M
LED201	87-A40-496-040		LED,SLR-342PCT31 GRN	S814	87-A90-095-080		SW,TACT EVQ11G04M
LED202	87-A40-317-080		LED,SLR-342VCT31 RED	S815	87-A90-095-080		SW,TACT EVQ11G04M
LED203	87-A40-496-040		LED,SLR-342PCT31 GRN	S816	87-A90-095-080		SW,TACT EVQ11G04M
LED205	87-A40-317-080		LED,SLR-342VCT31 RED	S817	87-A90-095-080		SW,TACT EVQ11G04M
LED206	87-A40-496-040		LED,SLR-342PCT31 GRN	S821	87-A90-095-080		SW,TACT EVQ11G04M
LED207	87-A40-317-080		LED,SLR-342VCT31 RED	S822	87-A90-095-080		SW,TACT EVQ11G04M
LED209	87-A40-496-040		LED,SLR-342PCT31 GRN	S823	87-A90-095-080		SW,TACT EVQ11G04M
LED210	87-A40-317-080		LED,SLR-342VCT31 RED	S824	87-A90-095-080		SW,TACT EVQ11G04M
LED211	87-A40-496-040		LED,SLR-342PCT31 GRN	S825	87-A90-095-080		SW,TACT EVQ11G04M
LED212	87-A40-317-080		LED,SLR-342VCT31 RED	S826	87-A90-095-080		SW,TACT EVQ11G04M
LED213	87-A40-317-080		LED,SLR-342VCT31 RED	S827	87-A90-095-080		SW,TACT EVQ11G04M
LED214	87-A40-317-080		LED,SLR-342VCT31 RED	S828	87-A90-095-080		SW,TACT EVQ11G04M
LED231	87-A40-317-080		LED,SLR-342VCT31 RED	S829	87-A90-095-080		SW,TACT EVQ11G04M
LED232	87-A40-317-080		LED,SLR-342VCT31 RED	S830	87-A90-095-080		SW,TACT EVQ11G04M
LED233	87-A40-496-040		LED,SLR-342PCT31 GRN	S831	87-A90-095-080		SW,TACT EVQ11G04M
LED234	87-A40-496-040		LED,SLR-342PCT31 GRN	S832	87-A90-095-080		SW,TACT EVQ11G04M
LED235	87-A40-496-040		LED,SLR-342PCT31 GRN	S833	87-A90-095-080		SW,TACT EVQ11G04M
S401	87-A90-095-080		SW,TACT EVQ11G04M	S834	87-A90-095-080		SW,TACT EVQ11G04M
S402	87-A90-095-080		SW,TACT EVQ11G04M	S835	87-A90-095-080		SW,TACT EVQ11G04M
S403	87-A90-095-080		SW,TACT EVQ11G04M	S836	87-A90-095-080		SW,TACT EVQ11G04M
S404	87-A90-095-080		SW,TACT EVQ11G04M	S837	87-A90-095-080		SW,TACT EVQ11G04M
S405	87-A90-095-080		SW,TACT EVQ11G04M	S838	87-A90-095-080		SW,TACT EVQ11G04M
S421	87-A91-625-010		SW,RTRY EC12E24308-30MM	S842	87-A90-095-080		SW,TACT EVQ11G04M
CNTL C.B				S843	87-A90-095-080		SW,TACT EVQ11G04M
C602	87-010-069-040		CAP,E 0.33-50	S844	87-A90-095-080		SW,TACT EVQ11G04M
C603	87-010-319-080		C-CAP,S 56P-50 CH	S845	87-A90-095-080		SW,TACT EVQ11G04M
				S846	87-A90-095-080		SW,TACT EVQ11G04M
				S847	87-A90-095-080		SW,TACT EVQ11G04M

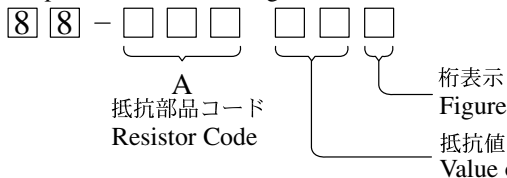
REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
S848	87-A90-095-080		SW,TACT EVQ11G04M	C154	87-A11-595-080		C-CAP,S 0.056-50 K B
S849	87-A90-095-080		SW,TACT EVQ11G04M	C155	87-010-190-080		S CHIP F 0.01
S850	87-A90-095-080		SW,TACT EVQ11G04M	C156	87-010-190-080		S CHIP F 0.01
S851	87-A90-095-080		SW,TACT EVQ11G04M	C157	87-010-190-080		S CHIP F 0.01
				C160	87-010-186-080		CAP,CHIP 4700P
AMP 1F C.B				C161	87-010-186-080		CAP,CHIP 4700P
C101	87-010-178-080		CHIP CAP 1000P-50	C200	87-018-131-080		CAP,TC U 1000P-50 K B
C102	87-010-178-080		CHIP CAP 1000P	C201	87-010-178-080		CHIP CAP 1000P
C103	87-010-405-080		CAP, ELECT 10-50V	C202	87-010-258-080		CAP,E 22-35 SME
C104	87-010-405-080		CAP, ELECT 10-50V	C203	87-010-322-080		C-CAP,S 100P-50 J CH GRM
C105	87-010-186-080		C-CAP,S 4700P-50 K B	C204	87-010-258-080		CAP,E 22-35 SME
C106	87-010-186-080		C-CAP,S 4700P-50 K B	C205	87-010-260-080		CAP, ELECT 47-25V
C107	87-010-406-080		CAP, E 22-50 M 11L SME	C206	87-012-156-080		C-CAP,S 220P-50 CH
C108	87-010-404-080		CAP, ELECT 4.7-50V	C208	87-010-197-080		CAP, CHIP 0.01 DM
C111	87-010-322-080		C-CAP,S 100P-50 J CH	C209	87-010-260-080		CAP,E 47-25 M 11L SME
C112	87-010-322-080		C-CAP,S 100P-50 J CH	C210	87-010-260-080		CAP,E 47-25 M 11L SME
C113	87-A10-812-080		C-CAP,S 220P-200 J CH	C251	87-012-368-080		C-CAP,S 0.1-50 F
C114	87-A10-812-080		C-CAP,S 220P-200 J CH	C252	87-A11-595-080		C-CAP,S 0.056-50 K B
C119	87-010-196-080		C-CAP,S 0.1-25 ZF	C253	87-A11-595-080		C-CAP,S 0.056-50 K B
C120	87-010-196-080		C-CAP,S 0.1-25 ZF	C258	87-010-178-080		C-CAP,S 1000P-50 K B
C121	87-010-260-080		CAP, ELECT 47-25V	CN101	87-A61-109-010		CONN,7P V TID-A
C122	87-010-260-080		CAP, ELECT 47-25V	CN102	87-A60-135-010		CONN,10P V FE
C173	87-010-186-080		CAP,CHIP 4700P-50	FC102	88-910-201-110		FF-CABLE 10P 1.25
C174	87-010-186-080		CAP,CHIP 4700P-50	J101	87-A61-159-010		JACK,PIN 4P R/W/B/O KM
C215	87-012-156-080		C-CAP,S 220P-50	L151	87-A50-610-010		COIL,1UH-K
C265	87-010-260-080		CAP, E 47-25V M 11L SME	L152	87-A50-610-010		COIL,1UH-K
C402	87-010-196-080		CHIP CAPACITOR,0.1-25	L251	87-A50-610-010		COIL,1UH-K
C413	87-A10-119-080		CAP,E 10-100 REA	R131	87-A00-258-080		RES,M/F 0.22-1W J
C414	87-A10-119-080		CAP,E 10-100 REA	R132	87-A00-258-080		RES,M/F 0.22-1W J
C495	87-A10-812-080		C-CAP,S 220P-200 J CH	R171	87-A00-258-080		RES,M/F 0.22-1W J
C496	87-A10-812-080		C-CAP,S 220P-200 J CH	R172	87-A00-258-080		RES,M/F 0.22-1W J
CNA102	8A-NF8-655-010		CONN ASSY,7P TID-A (250)	R218	87-A00-257-080		RES,M/F 0.15-1W J
CNA103	8A-NF8-656-010		CONN ASSY,5P TID-A 400	R278	87-A00-257-080		RES,M/F 0.15-1W J
CON101	87-A61-011-010		CONN,13P H BLK TAC-L13P-A3	TH201	87-A91-042-080		C-THMS,100K 55001
CON102	87-A61-011-010		CONN,13P H BLK TAC-L13P-A3				
CON103	87-A60-058-010		CONN,10P V 9604S-10C	KEY CD C.B			
JW101	87-A90-896-080		F-BEAD,035600STY7	CN701	87-A60-156-010		CONN,8P H FE
JWL24	87-A90-896-080		F-BEAD,035600STY7	FC701	88-908-231-110		FF-CABLE,8P 1.25
R161	87-A00-418-010		RES,M/F 0.15-3W J	LED771	87-A40-317-080		LED,SLR-342VCT31 RED
R162	87-A00-418-010		RES,M/F 0.15-3W J	LED772	87-A40-317-080		LED,SLR-342VCT31 RED
R165	87-A00-418-010		RES,M/F 0.15-3W J	LED773	87-A40-317-080		LED,SLR-342VCT31 RED
R166	87-A00-418-010		RES,M/F 0.15-3W J	LED774	87-A40-317-080		LED,SLR-342VCT31 RED
TH101	87-A91-042-080		C-THMS,100K 55001	LED775	87-A40-317-080		LED,SLR-342VCT31 RED
TH102	87-A91-042-080		C-THMS,100K 55001	S751	87-A90-095-080		SW,TACT EVQ11G04M
WH102	87-A90-460-010		HLDR WIRE 2.5-7P	S752	87-A90-095-080		SW,TACT EVQ11G04M
WH103	87-A90-459-010		HLDR,WIRE 2.5-5P	S753	87-A90-095-080		SW,TACT EVQ11G04M
				S754	87-A90-095-080		SW,TACT EVQ11G04M
				S755	87-A90-095-080		SW,TACT EVQ11G04M
				S756	87-A90-095-080		SW,TACT EVQ11G04M
				S757	87-A90-095-080		SW,TACT EVQ11G04M
AMP 2F C.B				DK1 LED C.B			
C100	87-018-131-080		CAP,TC U 1000P-50 K B	LED724	87-A40-619-040		LED,SLR-56PT-T31-W GRN
C101	87-010-178-080		CHIP CAP 1000P	LED725	87-A40-589-040		LED,SLR-56VCT31 RED
C102	87-010-178-080		CHIP CAP 1000P	LED726	87-A40-619-040		LED,SLR-56PT-T31-W GRN
C103	87-010-405-080		CAP, ELECT 10-50V	DK2 LED C.B			
C104	87-010-405-080		CAP, ELECT 10-50V	CN721	87-A60-619-010		CONNECTOR 2P V 2MM
C107	87-010-406-080		CAP, ELECT 22-50V	CNA722	8A-MA3-653-010		CONN ASSY,2P V 100MM
C108	87-010-406-080		CAP, ELECT 22-50V	LED721	87-A40-619-040		LED,SLR-56PT-T31-W GRN
C111	87-010-170-080		C-CAP,S 220P-50 J SL	LED722	87-A40-589-040		LED,SLR-56VCT31 RED
C112	87-010-170-080		C-CAP,S 220P-50 J SL	LED723	87-A40-619-040		LED,SLR-56PT-T31-W GRN
C113	87-010-260-080		CAP, ELECT 47-25V				
C114	87-010-260-080		CAP, ELECT 47-25V				
C115	87-010-405-080		CAP, ELECT 10-50V				
C116	87-010-405-080		CAP, ELECT 10-50V				
C118	87-A10-264-080		C-CAP,S 0.1-16 ZF				
C119	87-A10-264-080		C-CAP,S 0.1-16 ZF				
C121	87-010-190-080		S CHIP F 0.01				
C122	87-010-190-080		S CHIP F 0.01				
C151	87-012-368-080		C-CAP,S 0.1-50 F	MIC C.B			
C152	87-012-368-080		C-CAP,S 0.1-50 F	C601	87-010-196-080		CHIP CAPACITOR,0.1-25
C153	87-A11-595-080		C-CAP,S 0.056-50 K B	CN601	87-A60-619-010		CONNECTOR 2P V 2MM
				FB603	83-XM1-617-080		C-COIL,BK 2125HM 601

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
J601	87-099-659-010		JACK,6.3 JY-6314-01130				
J602	87-099-659-010		JACK,6.3 JY-6314-01130				
VM C.B				DECK C.B			
				CON502	87-099-756-010		CONN,15P 9604S F
				SFR1	87-024-581-010		SFR,3.3K DIA 6H
				SOL1	82-ZM1-626-010		SOL ASSY,27K
				SOL2	82-ZM1-626-010		SOL ASSY,27K
				SW1	87-A90-248-010		SW,MICRO ESE11SH2CXQ
PT C.B				SW2	87-A90-248-010		SW,MICRO ESE11SH2CXQ
C1	87-A11-148-080		CAP,TC U 0.1-50 Z F	SW3	87-A90-248-010		SW,MICRO ESE11SH2CXQ
C2	87-A11-148-080		CAP,TC U 0.1-50 Z F	SW4	87-036-110-010		SW,MICRO SPPB62
C3	87-A11-148-080		CAP,TC U 0.1-50 Z F	SW5	87-036-110-010		SW,MICRO SPPB62
C4	87-A11-148-080		CAP,TC U 0.1-50 Z F	SW6	87-036-110-010		SW,MICRO SPPB62
C5	87-A11-148-080		CAP,TC U 0.1-50 Z F				
C6	87-A11-148-080		CAP,TC U 0.1-50 Z F	SW8	87-A90-248-010		SW,MICRO ESE11SH2CXQ
C7	87-A11-148-080		CAP,TC U 0.1-50 Z F	SW9	87-A90-248-010		SW,MICRO ESE11SH2CXQ
C8	87-A11-148-080		CAP,TC U 0.1-50 Z F	W1	82-ZM3-601-010		RBN-CORD,4P-75
C101	87-010-387-080		CAP,E 470-25 SME				
C103	87-A11-148-080		CAP,TC U 0.1-50 Z F	HEAD-1 C.B			
					85-ZM3-601-010		PWB,FLEX I
C104	87-A11-148-080		CAP,TC U 0.1-50 Z F	CON301	8Z-NF3-643-010		CONN ASSY,3P-PB
C105	87-A11-148-080		CAP,TC U 0.1-50 Z F				
C106	87-A11-148-080		CAP,TC U 0.1-50 Z F	HEAD-2 C.B			
C107	87-A11-148-080		CAP,TC U 0.1-50 Z F		85-ZM3-601-010		PWB,FLEX I
C108	87-A11-148-080		CAP,TC U 0.1-50 Z F	CON351	8Z-NF3-644-010		CONN ASSY,8P-RPB
C109	87-A11-148-080		CAP,TC U 0.1-50 Z F				
C110	87-A11-148-080		CAP,TC U 0.1-50 Z F				
C111	87-010-917-000		CAP,E 3300-50 M SMG	KEY CON C.B			
C112	87-010-917-000		CAP,E 3300-50 M SMG				
C113	87-A10-231-090		CAP,E 3300-80	C551	87-A10-060-080		C-CAP,S 0.18-16 K B
C114	87-A10-231-090		CAP,E 3300-80	C552	87-A10-060-080		C-CAP,S 0.18-16 K B
C116	87-010-403-040		CAP,E 3.3-50 SME	C553	87-012-154-080		C-CAP,S 150P-50 J CH GRM
CN1	87-A61-110-010		CONN,9P V TID-A	C554	87-012-154-080		C-CAP,S 150P-50 J CH GRM
CN2	87-A61-108-010		CONN,5P V TID-A	C555	87-012-145-080		C-CAP,S 270P-50 J CH GRM
△ F101	87-035-458-010		FUSE,4A 250V T 218	C556	87-012-145-080		C-CAP,S 270P-50 J CH GRM
△ F102	87-035-458-010		FUSE,4A 250V T 218	C557	87-010-183-080		C-CAP,S 2700P-50 K B GRM
△ FC101	87-033-213-080		CLAMP, FUSE	C559	87-010-196-080		C-CAP,S 0.1-25 Z F
△ FC102	87-033-213-080		CLAMP, FUSE	C560	87-010-177-080		C-CAP,S 820P-50 J SL C2012
△ FC103	87-033-213-080		CLAMP, FUSE	C561	87-010-177-080		C-CAP,S 820P-50 J SL C2012
△ FC104	87-033-213-080		CLAMP, FUSE	C562	87-010-196-080		C-CAP,S 0.1-25 Z F
△ PR103	87-026-682-080		PROTECTOR,10A 491SERIES 60V	C563	87-010-374-080		CAP,E 47-10 M 11L SME
△ PR106	87-026-682-080		PROTECTOR,10A 491SERIES 60V	C564	87-010-196-080		C-CAP,S 0.1-25 Z F
△ PT1	8A-MGP-664-010		PT,AMG-P HR1<770>	C565	87-010-263-080		CAP,E 100-10 M 11L SME
△ PT1	8A-MGP-665-010		PT,AMG-P HR2<970>	C567	87-010-183-080		C-CAP,S 2700P-50 K B GRM
△ PT2	8A-NF8-673-010		PT,SUB ANF-8 (H)	C571	87-016-460-080		C-CAP,S 0.22-16 K B
△ RY101	87-A91-300-010		RELAY,AC 12V-ALA2PF12	C572	87-016-460-080		C-CAP,S 0.22-16 K B
△ S101	87-A90-165-010		SW,SL 1-2-3 SWS2301	C573	87-016-460-080		C-CAP,S 0.22-16 K B
△ T101	87-A60-317-010		TERMINAL, 1P MSC	C577	87-010-196-080		C-CAP,S 0.1-25 Z F
△ T102	87-A60-317-010		TERMINAL, 1P MSC	CN551	87-A60-689-010		CONN,7P H GRY TUC-P07X-C1

○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
CD1585BC
CSA952K



E C B

CC5551



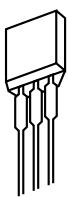
E C B

CSC4115BC



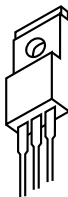
B C E

2SB1370E
2SD1933
2SB1342
FN1016
FP1016
2SD2439
2SB1588



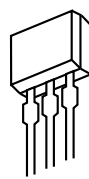
E C B

DTC114ES
KTC3199GR
2SA933SRS



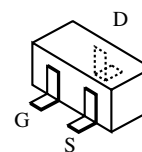
G D S

2SK3053

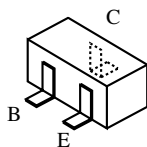


E C B

2SB1237Q



2SK2158



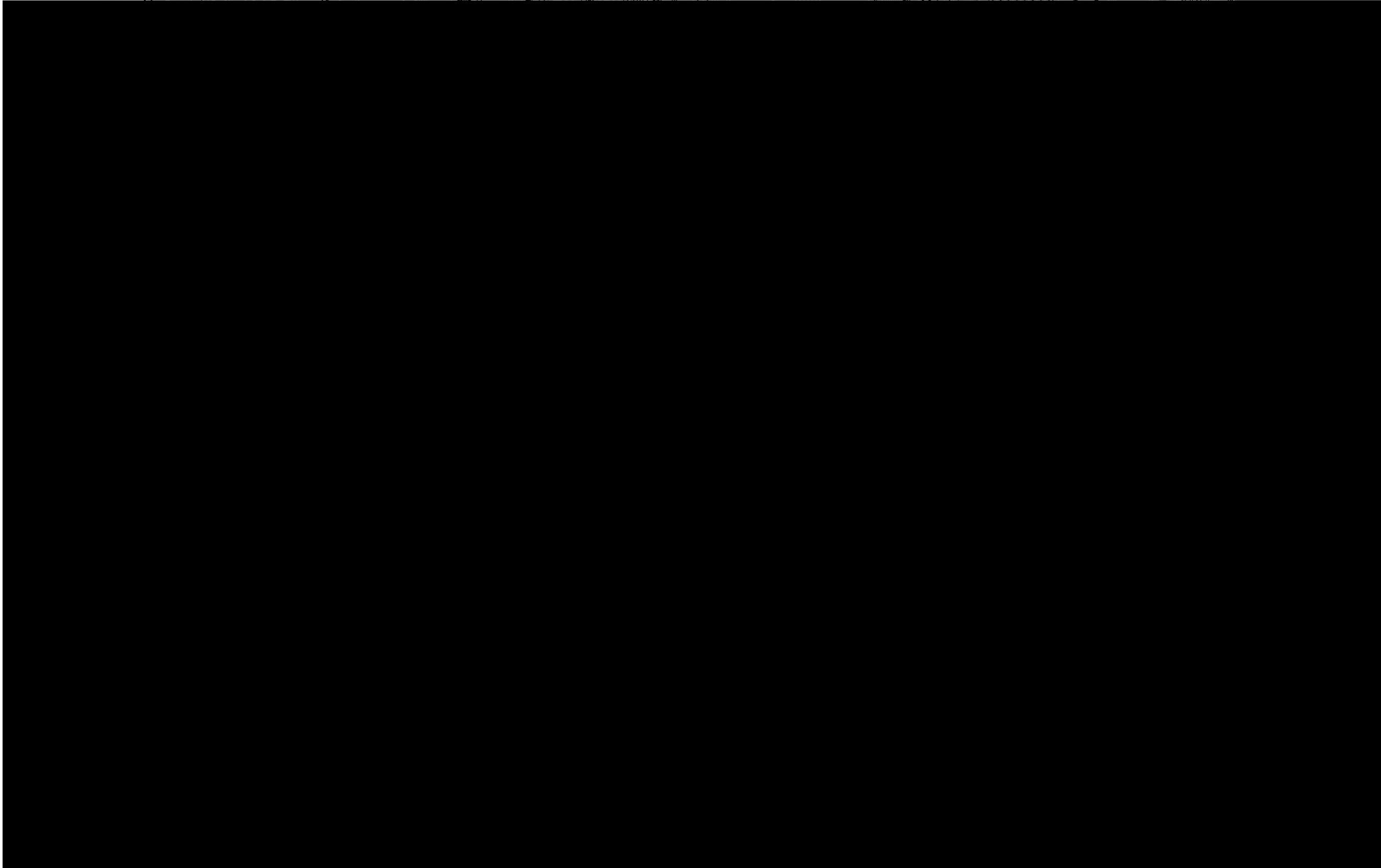
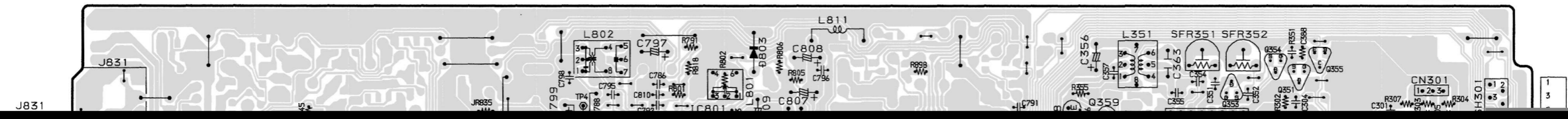
2SA1235F KRA104S
2SC2714O KRC102S-RTK
2SC3052F KRA107S
CMBT5551 KRA102S
CMBT5401 2SD1306E
RT1P141C

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
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A MAIN C.B

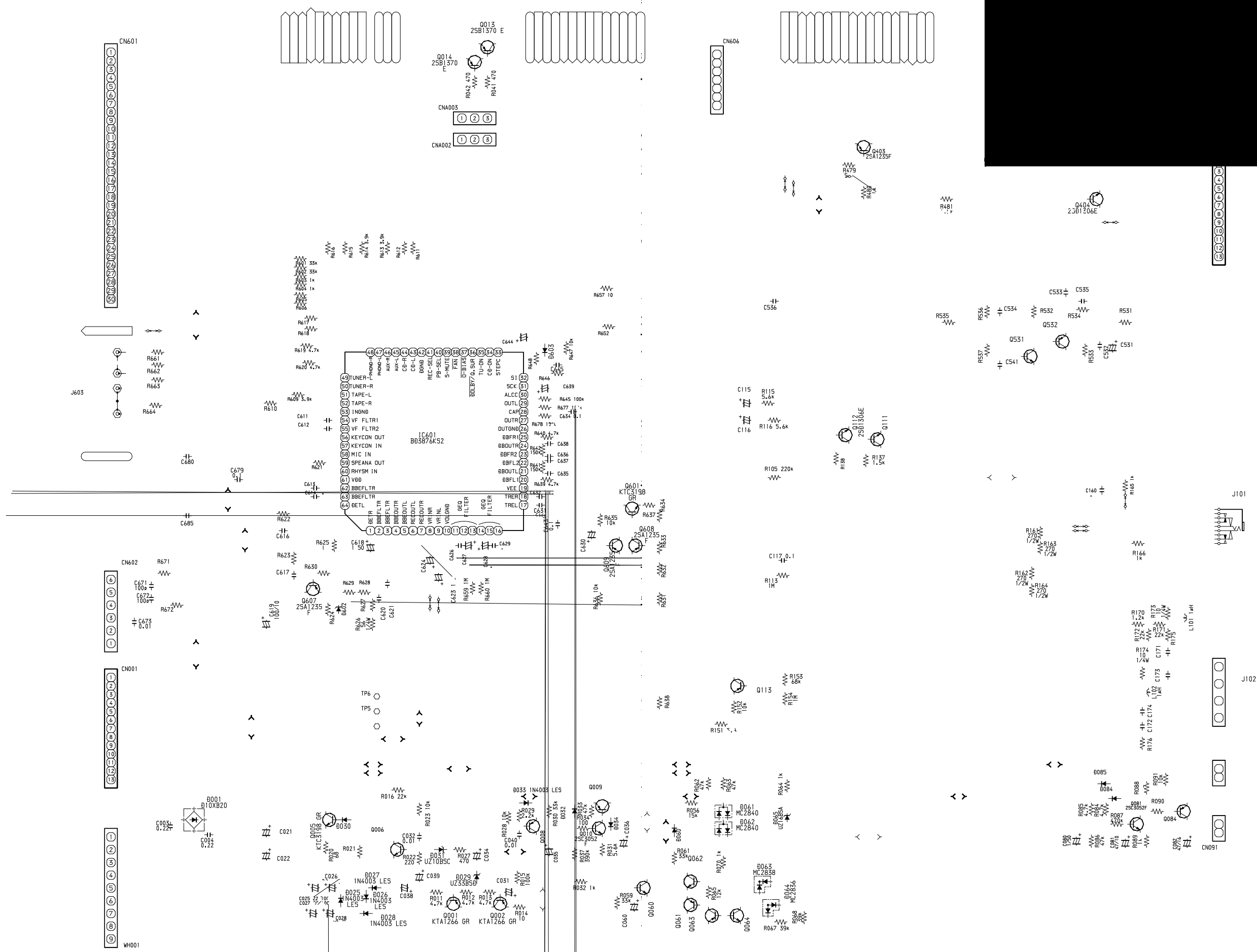
FROM **N** HEAD 2
CON351
1 3 5 7 8

FROM **M** HEAD 1
CON301
1 2 3

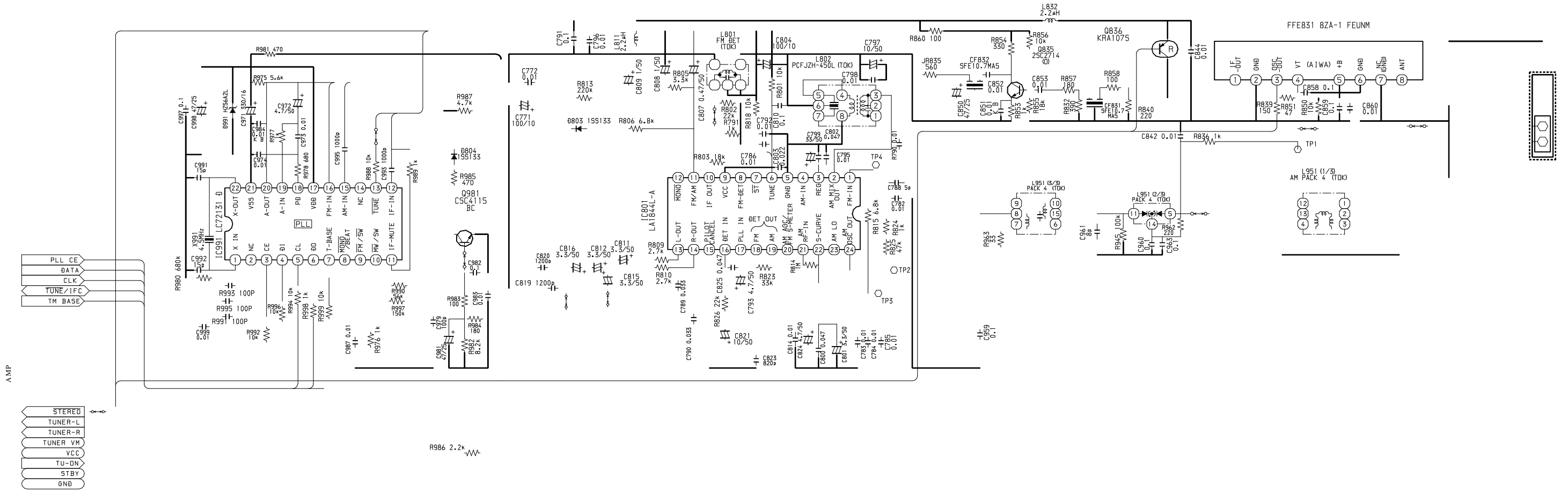


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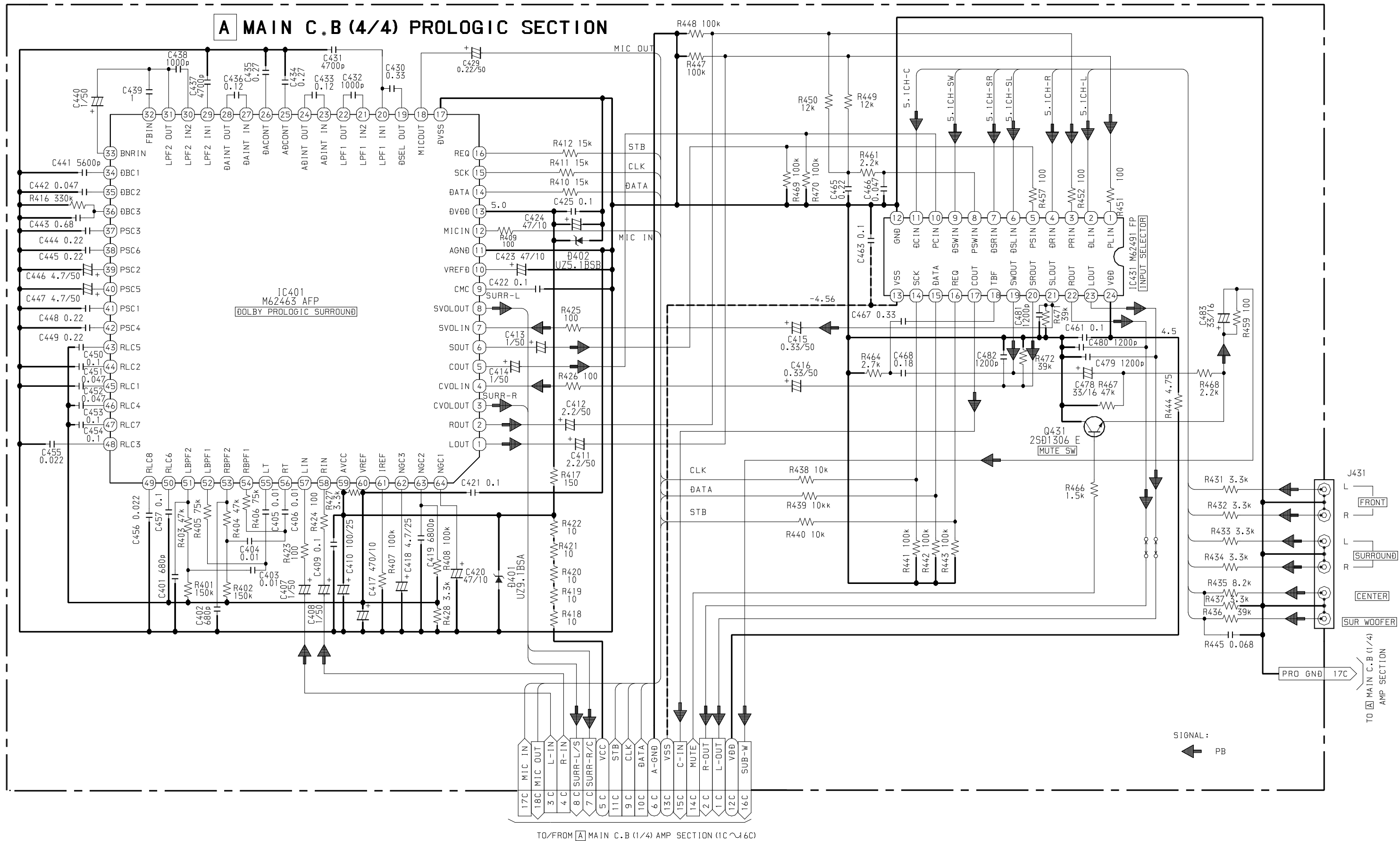
SCHEMATIC DIAGRAM - 1 (MAIN 1/4 : AMP / VM)



SCHEMATIC DIAGRAM - 3 (MAIN 3/4 : TUNER)



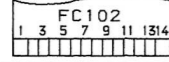
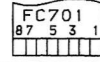
SCHEMATIC DIAGRAM - 4 (MAIN 4/4 : PROLOGIC)



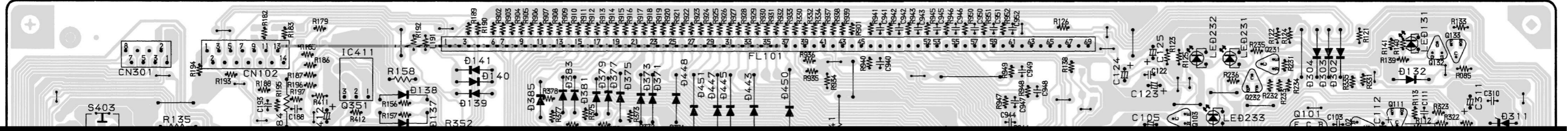
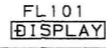
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FROM [F] KEY C.B FROM C.B MECHANISM
CN701



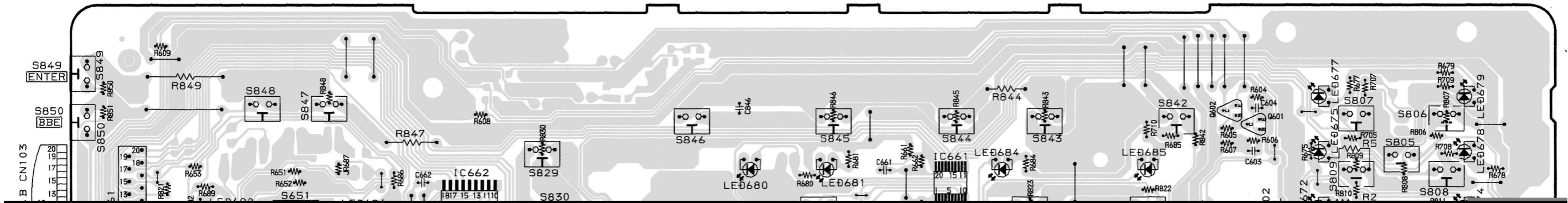
B MICON C.B



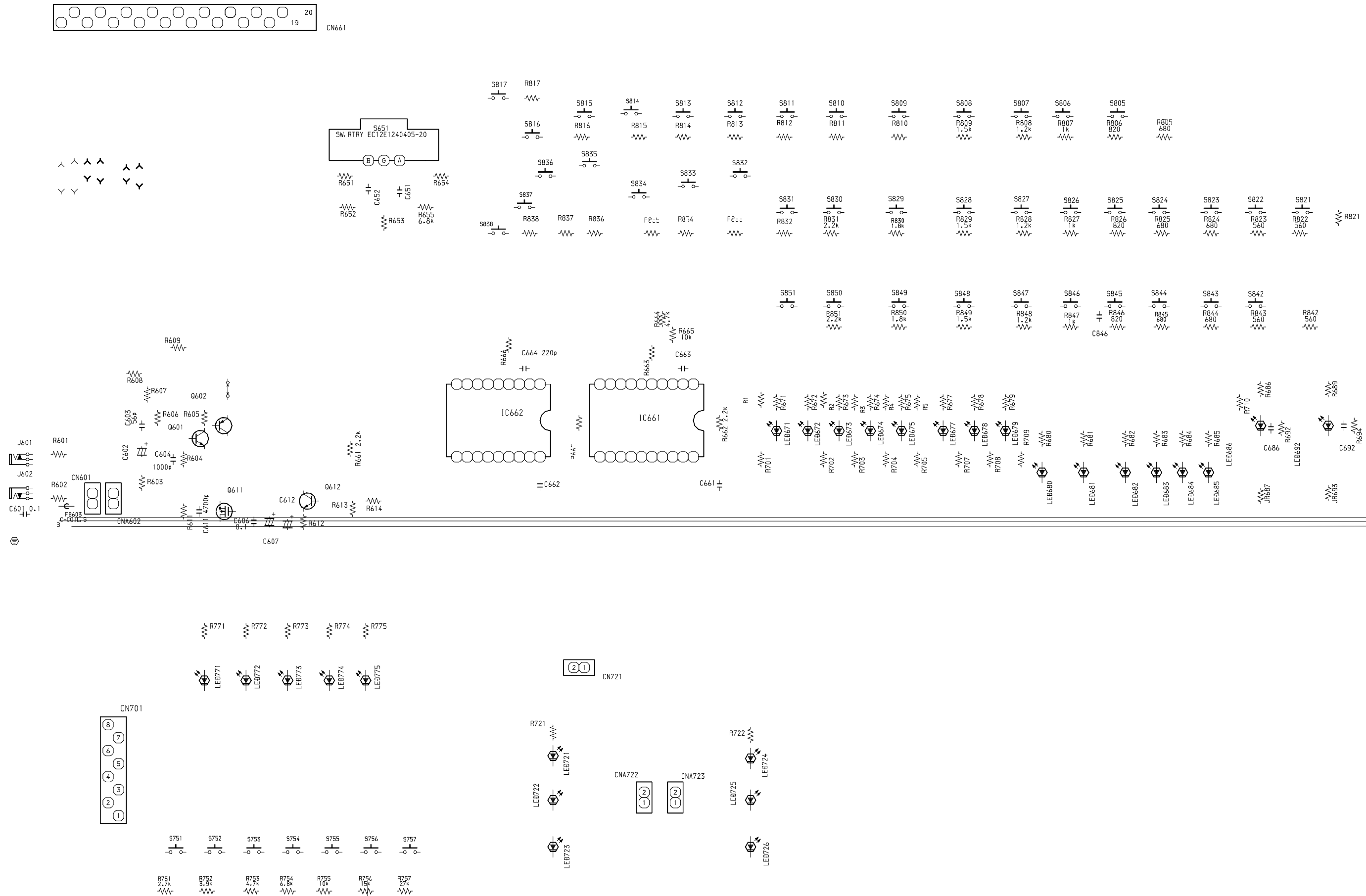
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C CNTL C.B



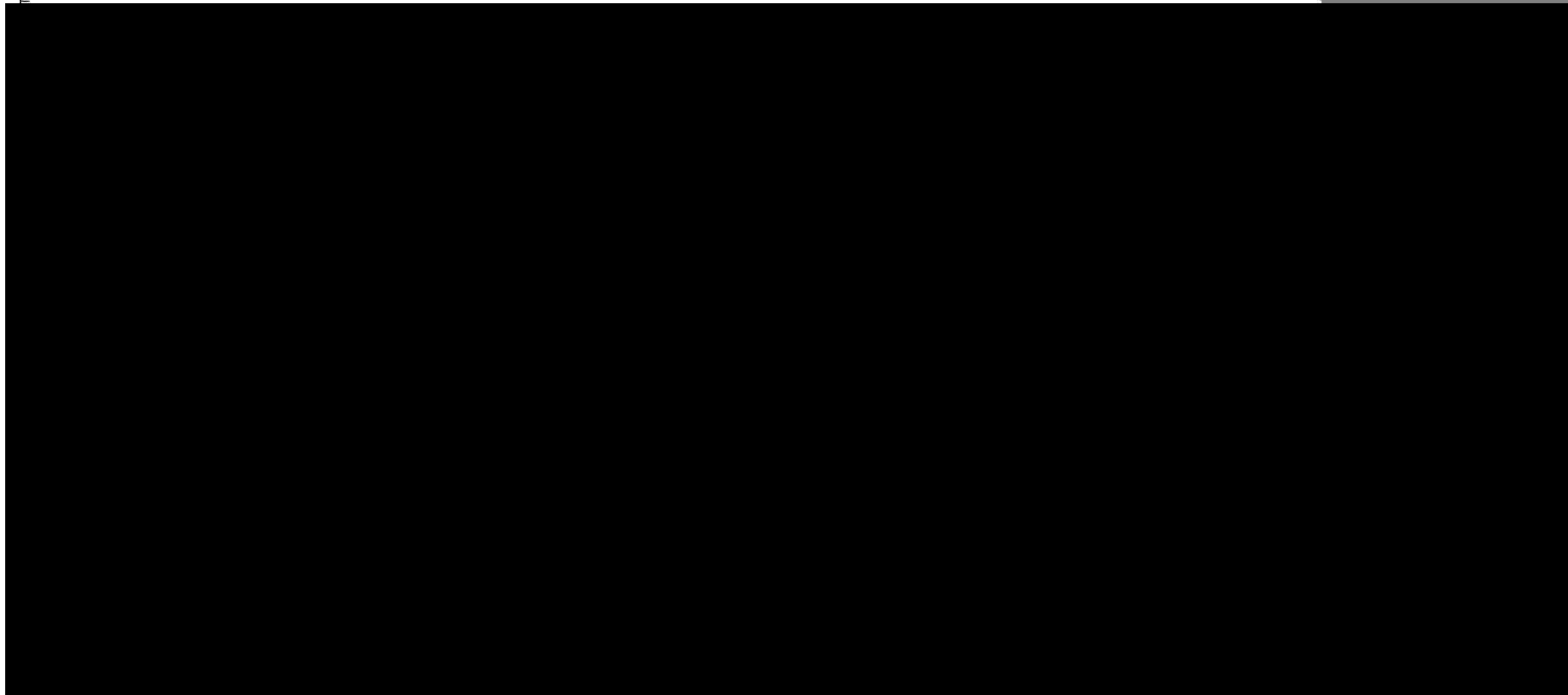
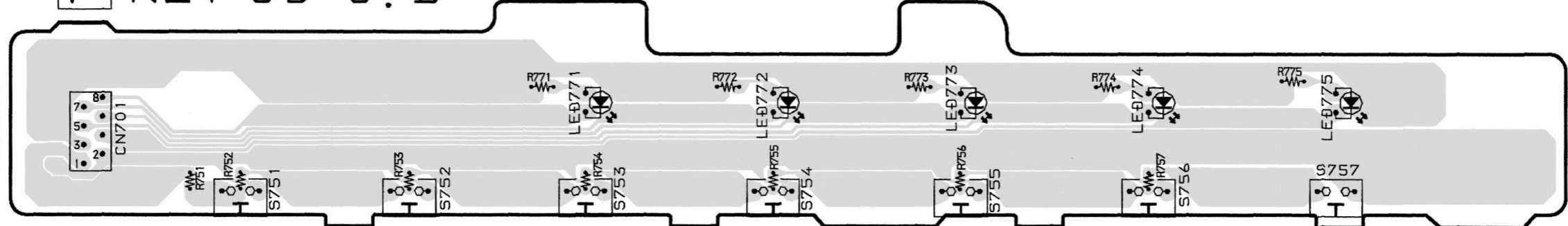
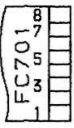
SCHEMATIC DIAGRAM - 6 (CNTL/KEY CD/DK1 LED/KD2 LED/MIC)



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F KEY CD C.B

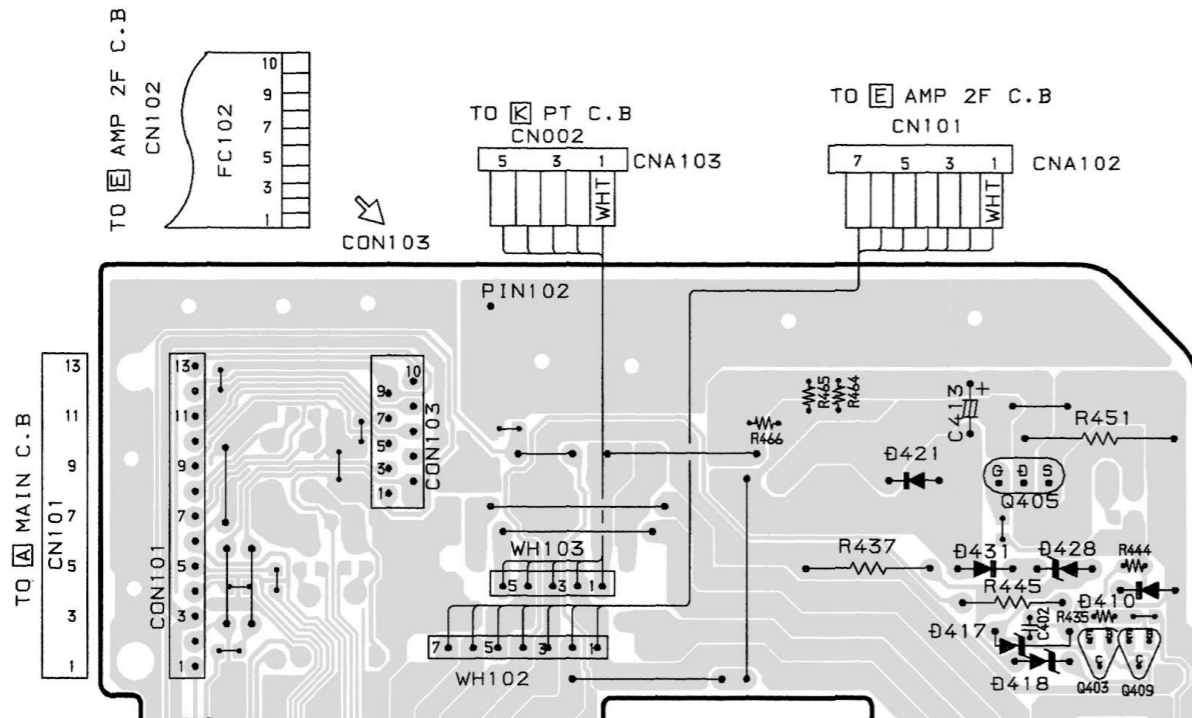
TO MICON C.B CN301



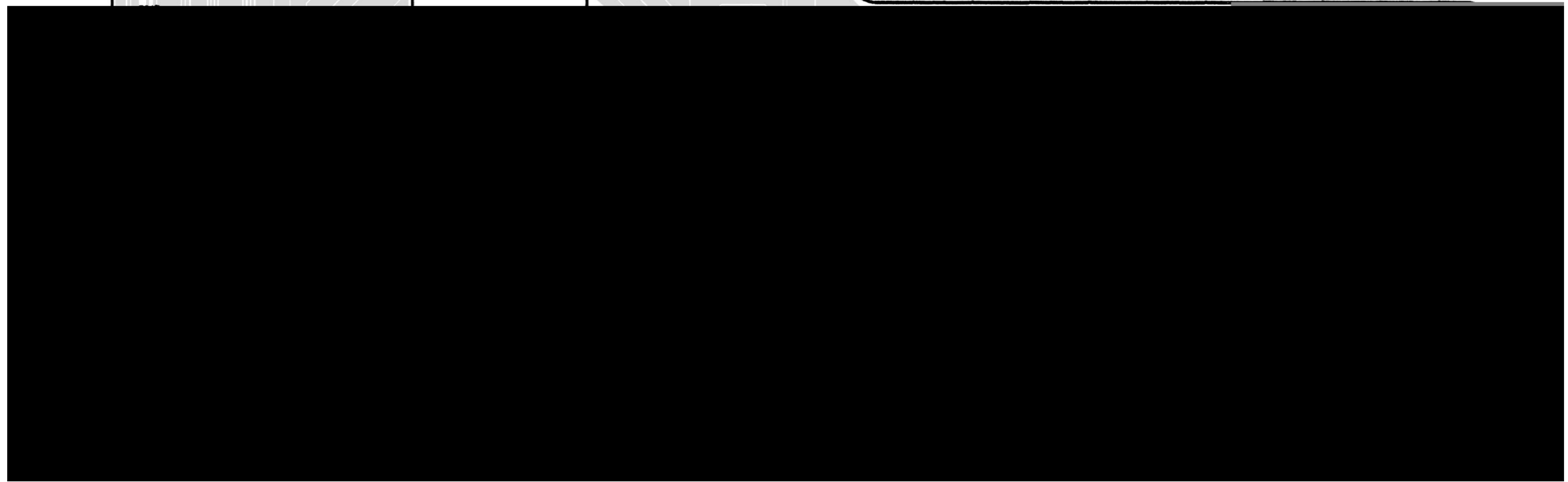
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WIRING - 5 (AMP 1F)

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
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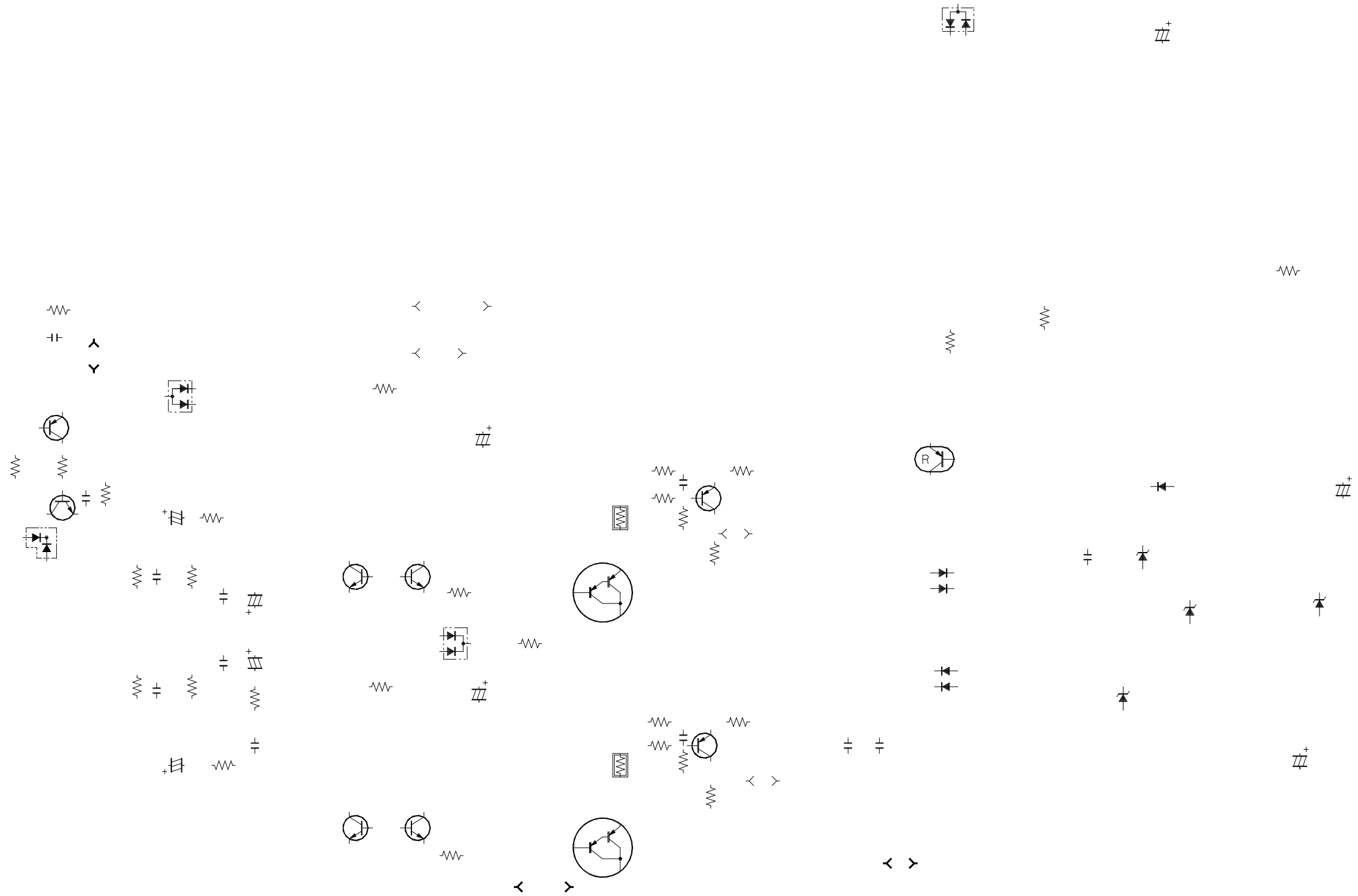
AMP 1 F C. B



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SCHEMATIC DIAGRAM - 7 (AMP 1F)

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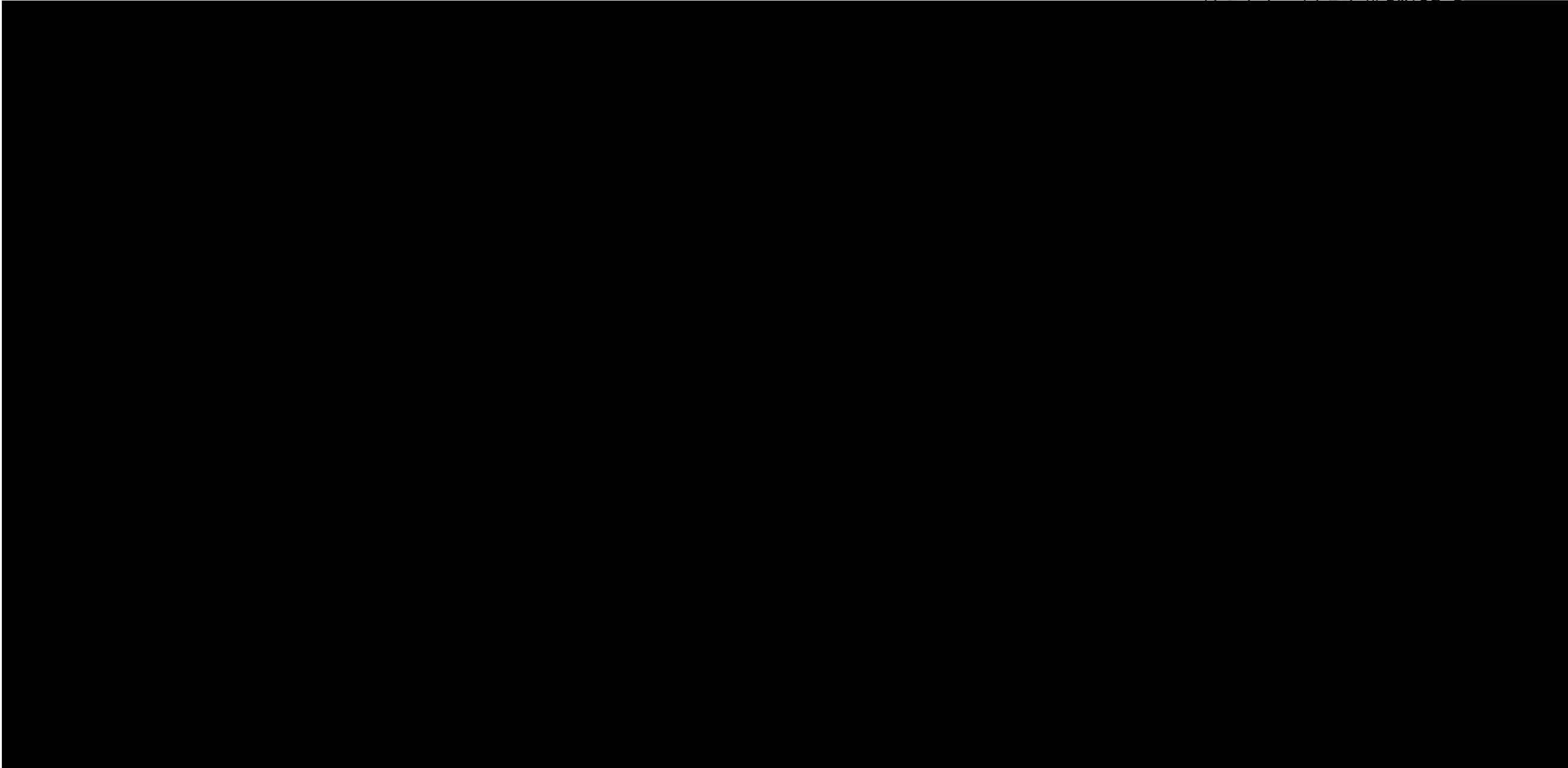
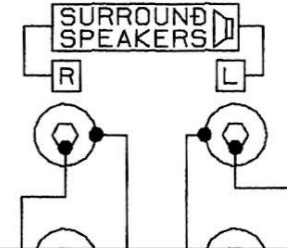
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WIRING - 6 (AMP 2F)

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

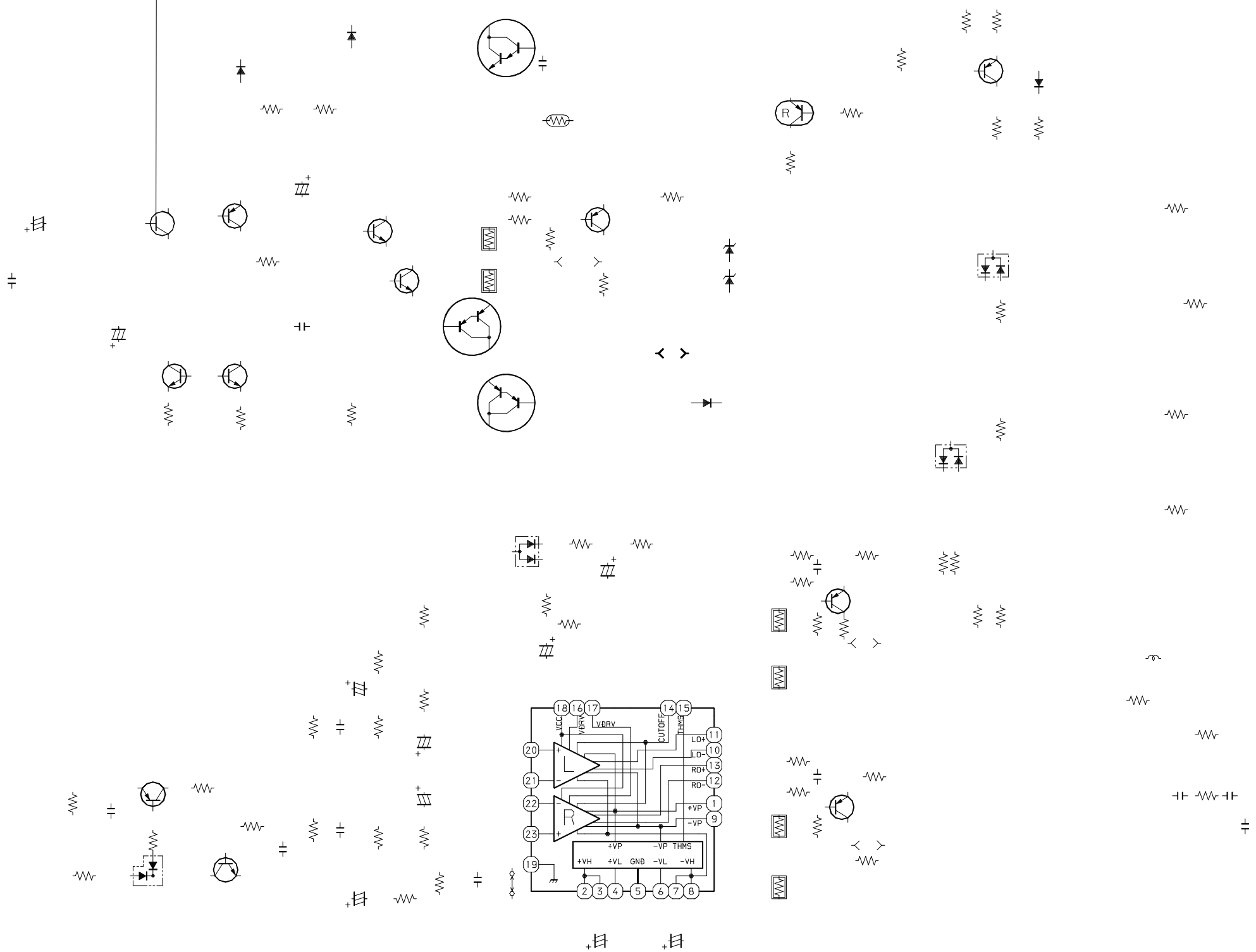
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J101
SPEAKER IMP: 8Ω-16Ω



SCHEMATIC DIAGRAM - 8 (AMP 2F)

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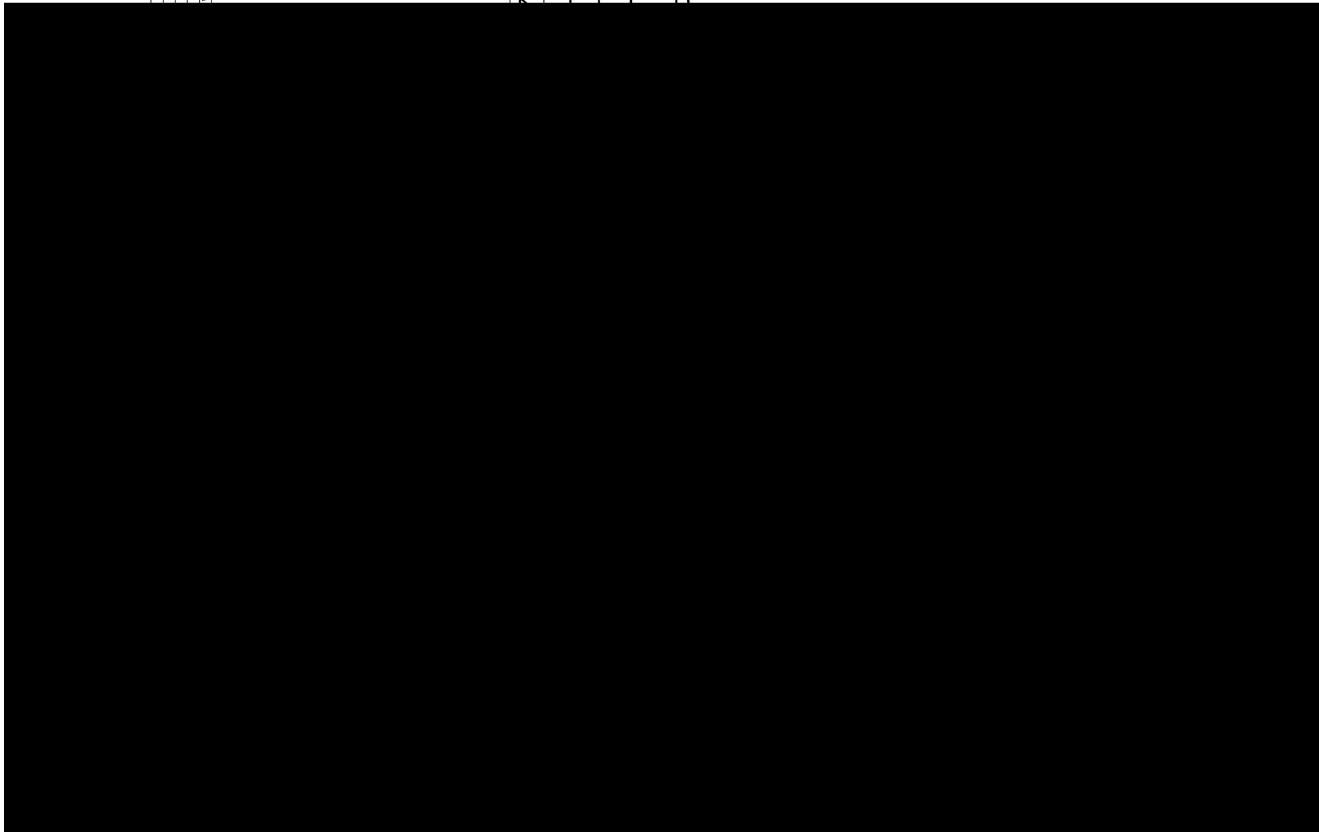


WIRING - 7 (PT)

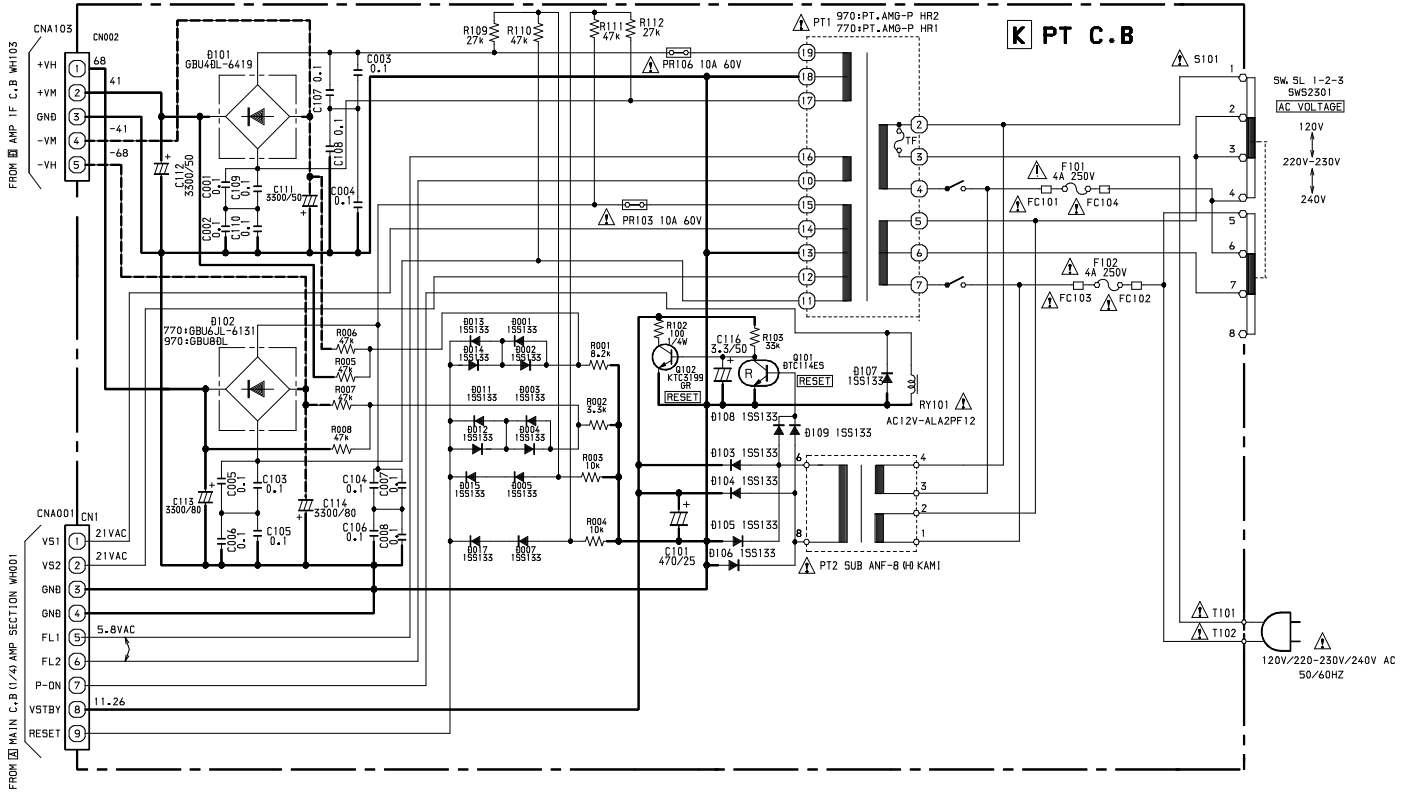
15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	
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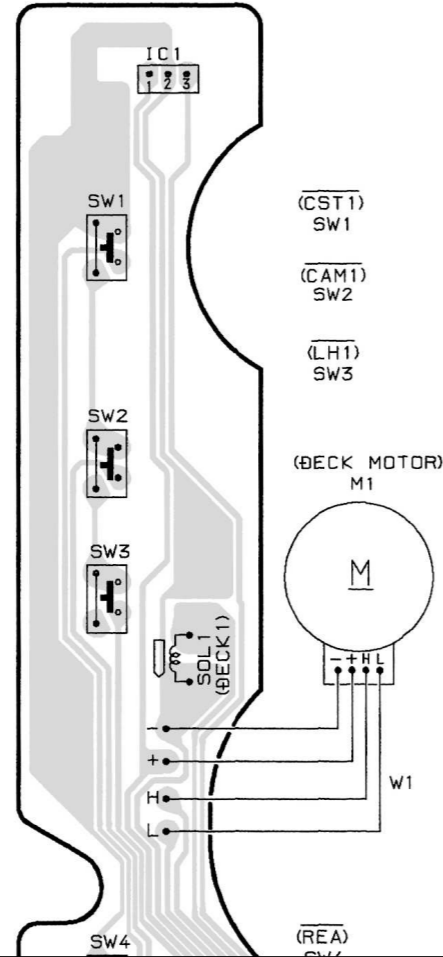
FROM 15 AMP 1F C.B.
WH105
WHITE

K PT C B

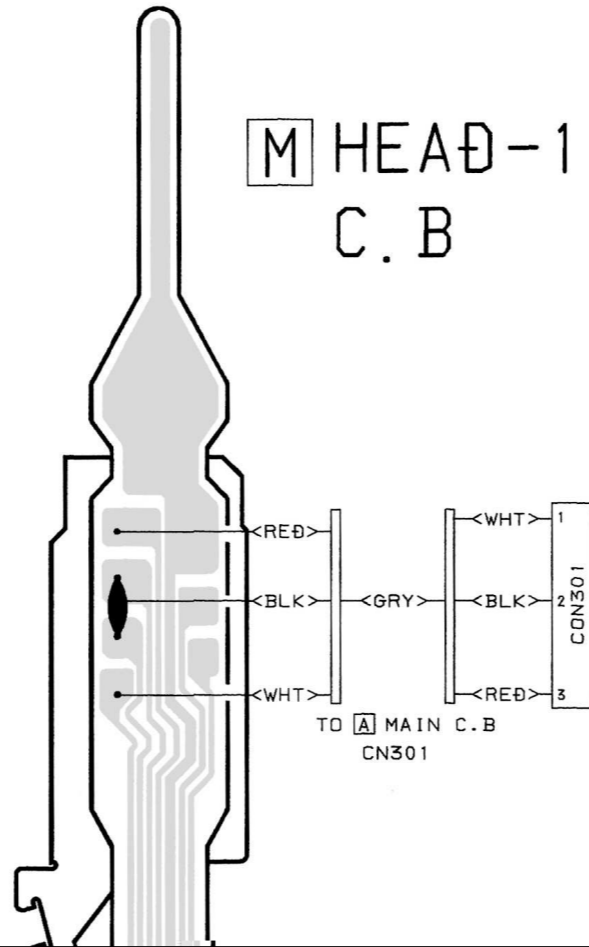


SCHEMATIC DIAGRAM - 9 (PT)

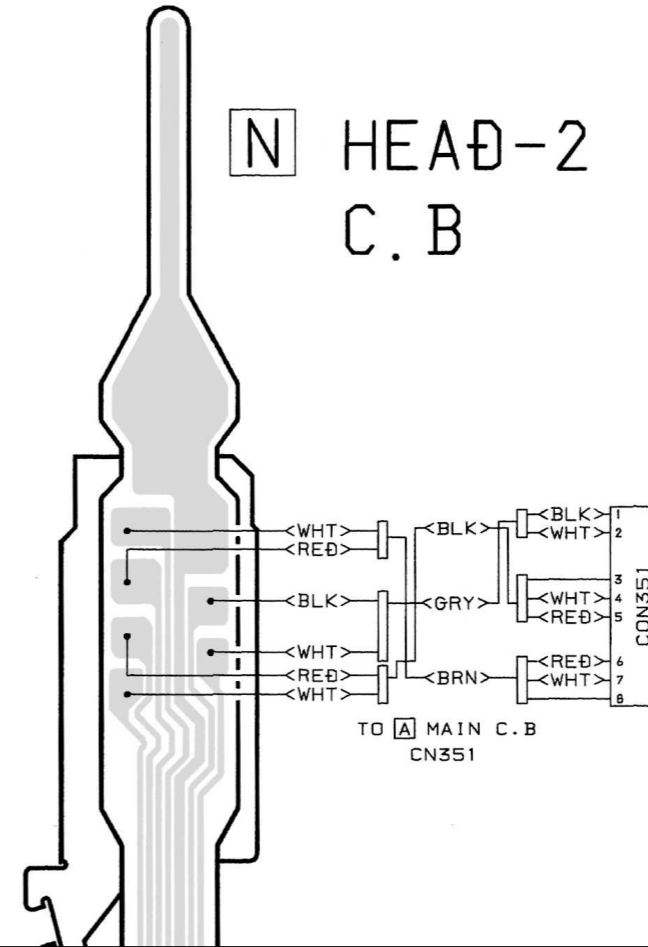




M HEAD-1
C. B

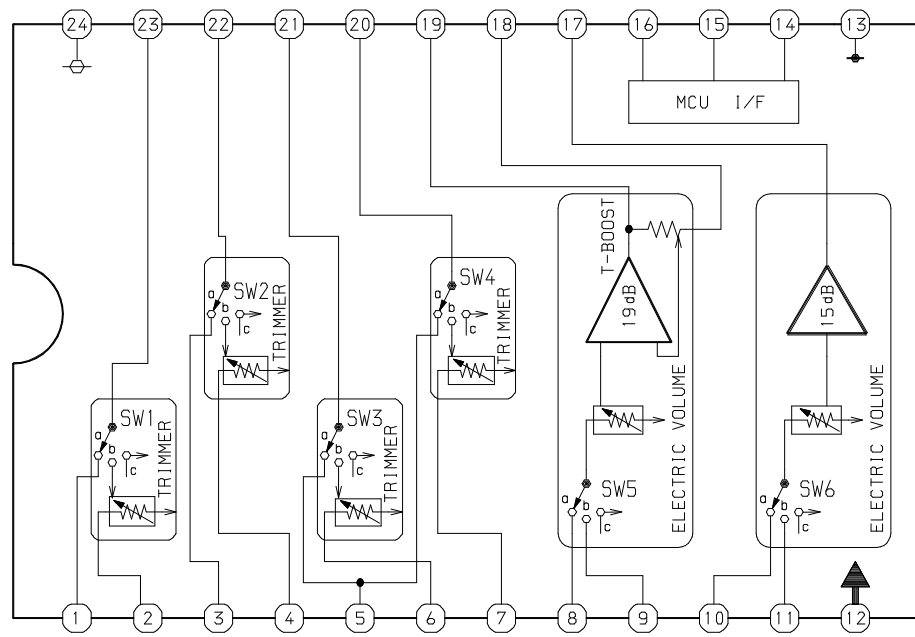


N HEAD-2
C. B

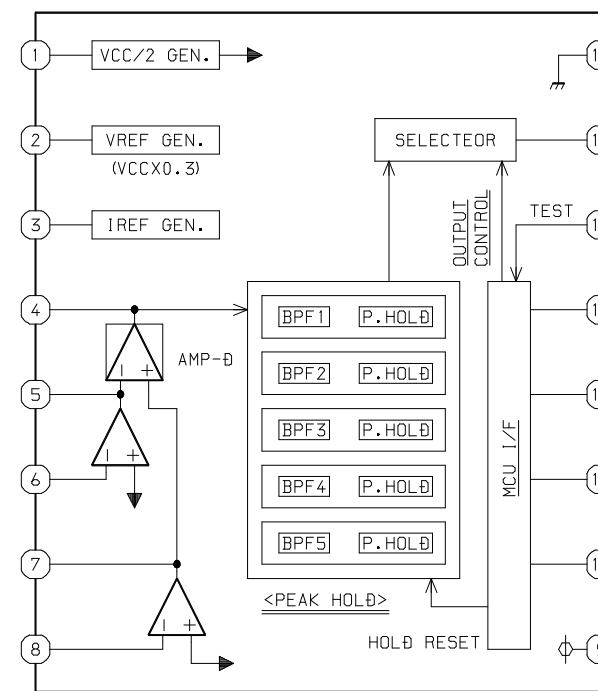


IC BLOCK DIAGRAM

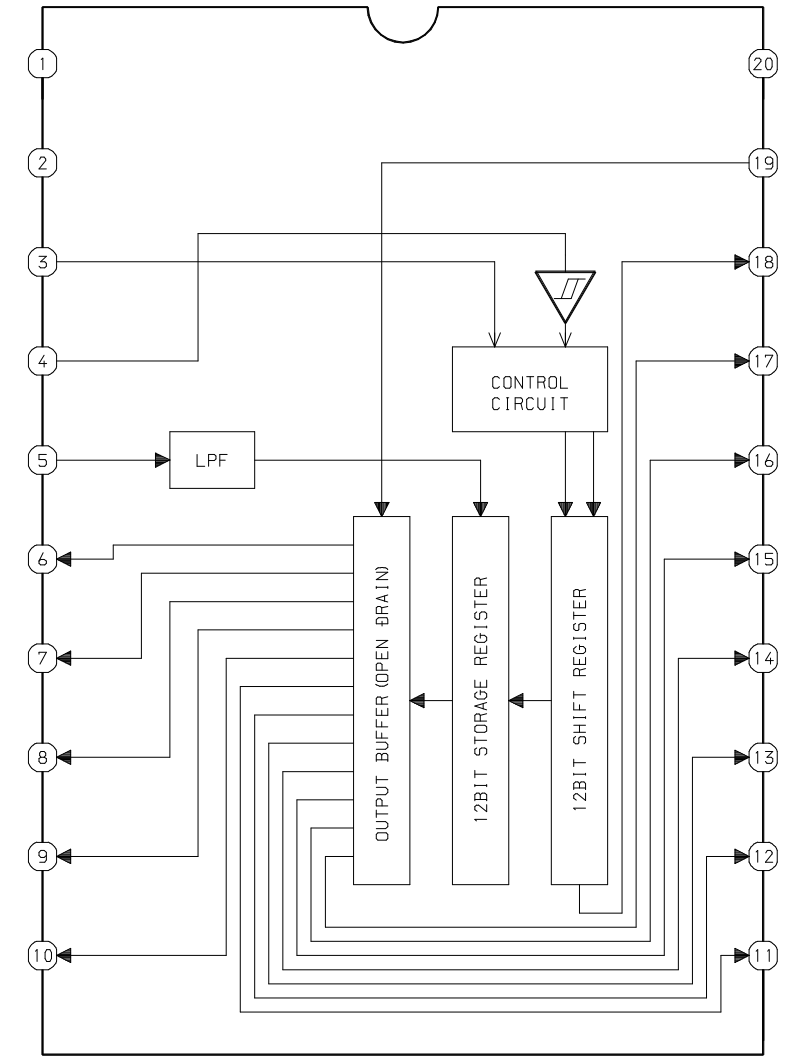
IC, M62491FP



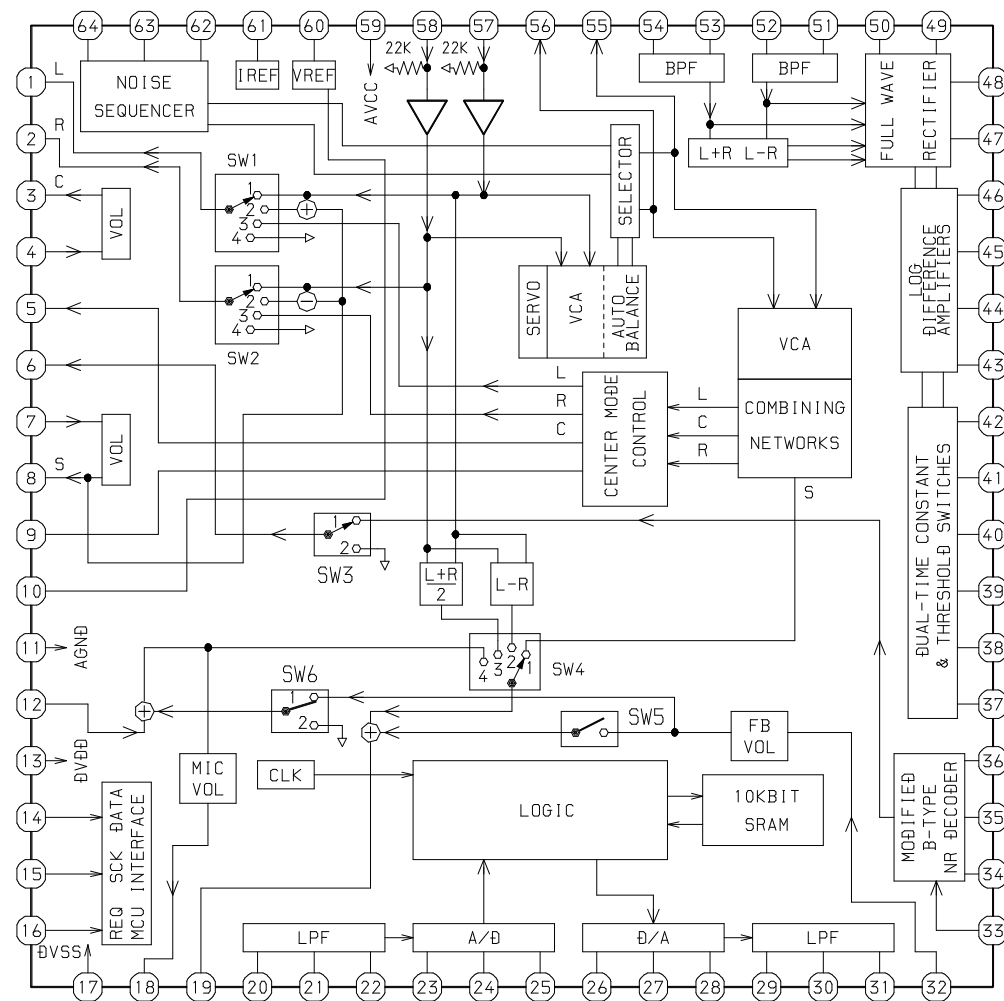
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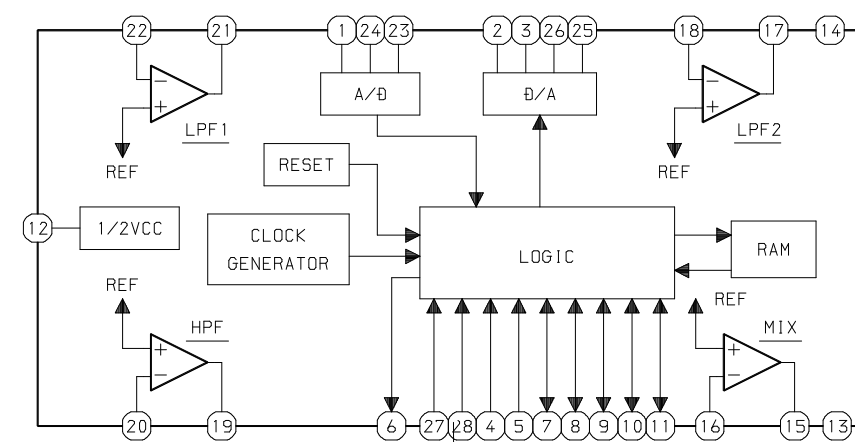
IC, BU2099FV



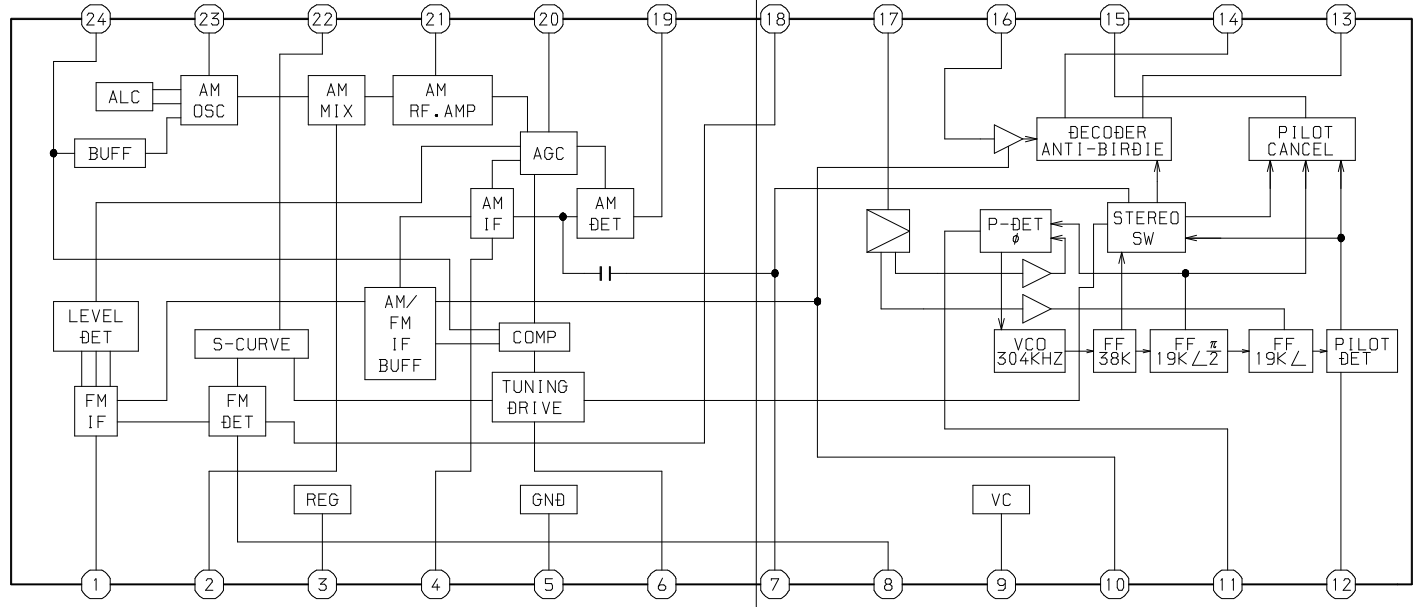
IC, M62463AFP



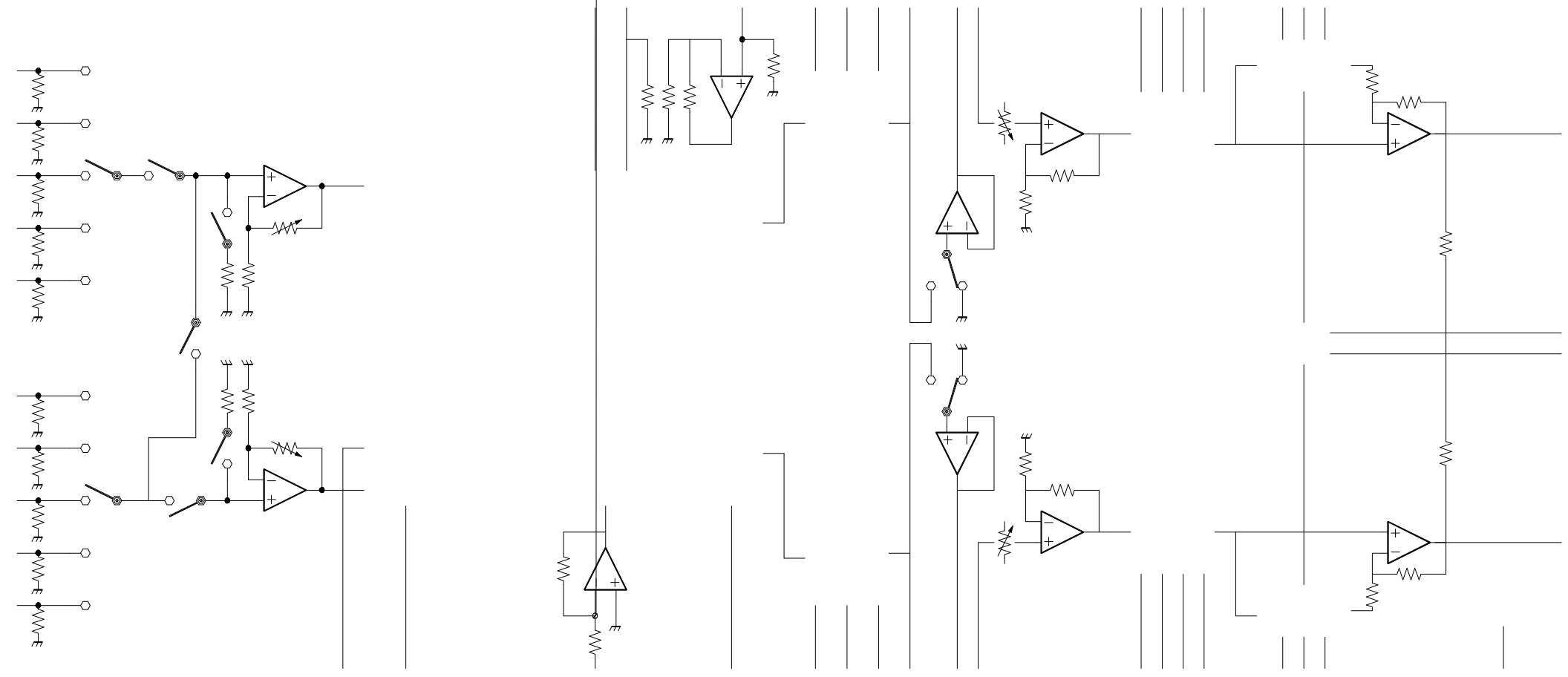
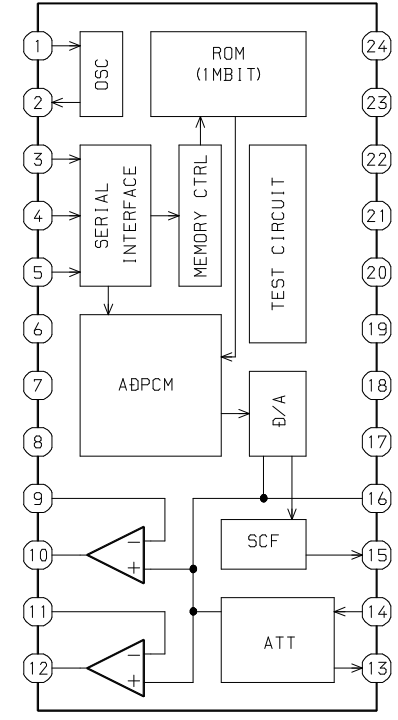
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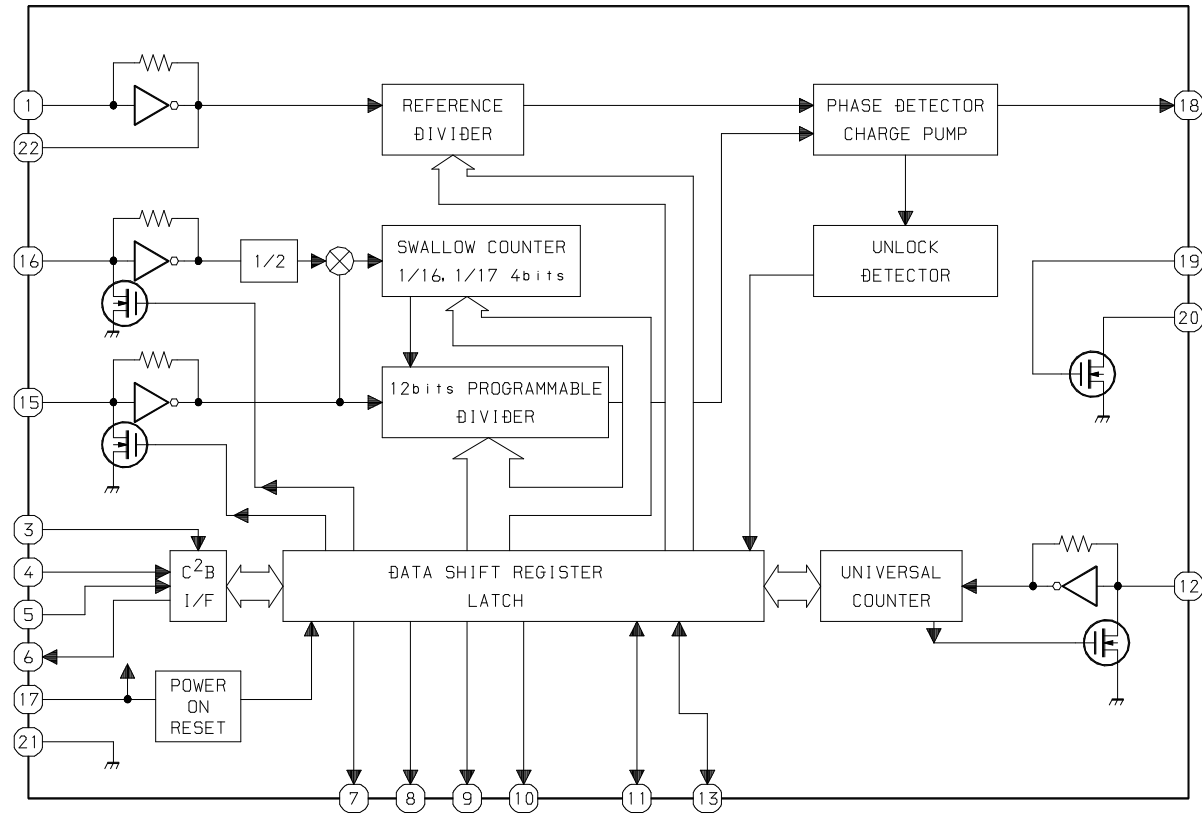
IC, LA1844L-A



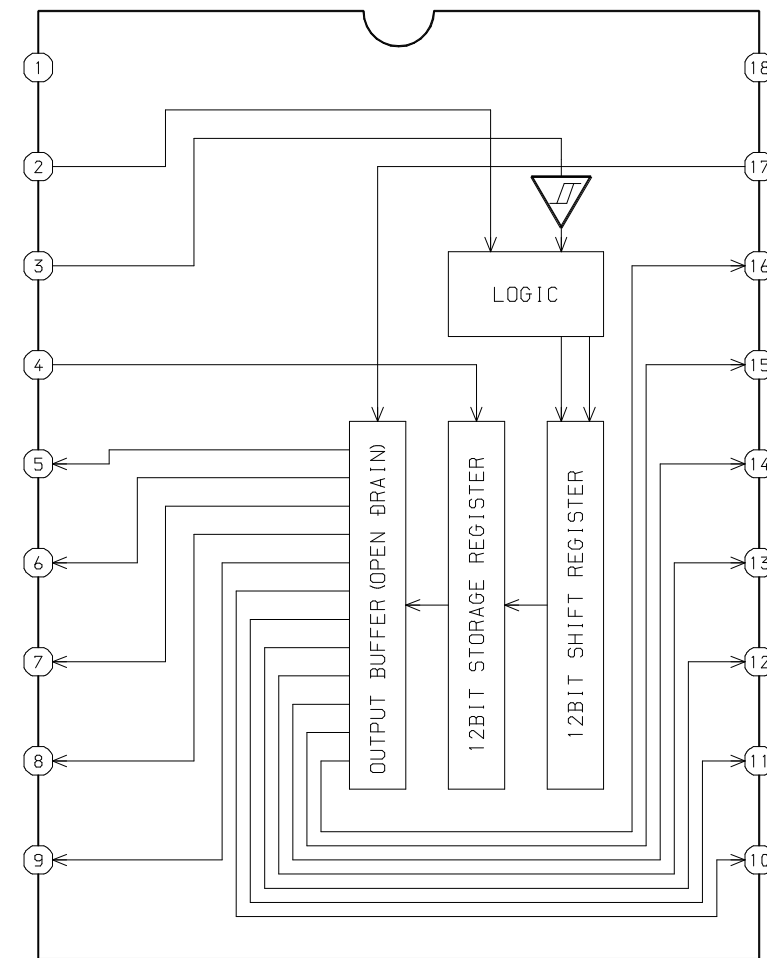
IC, BU9990-03FS



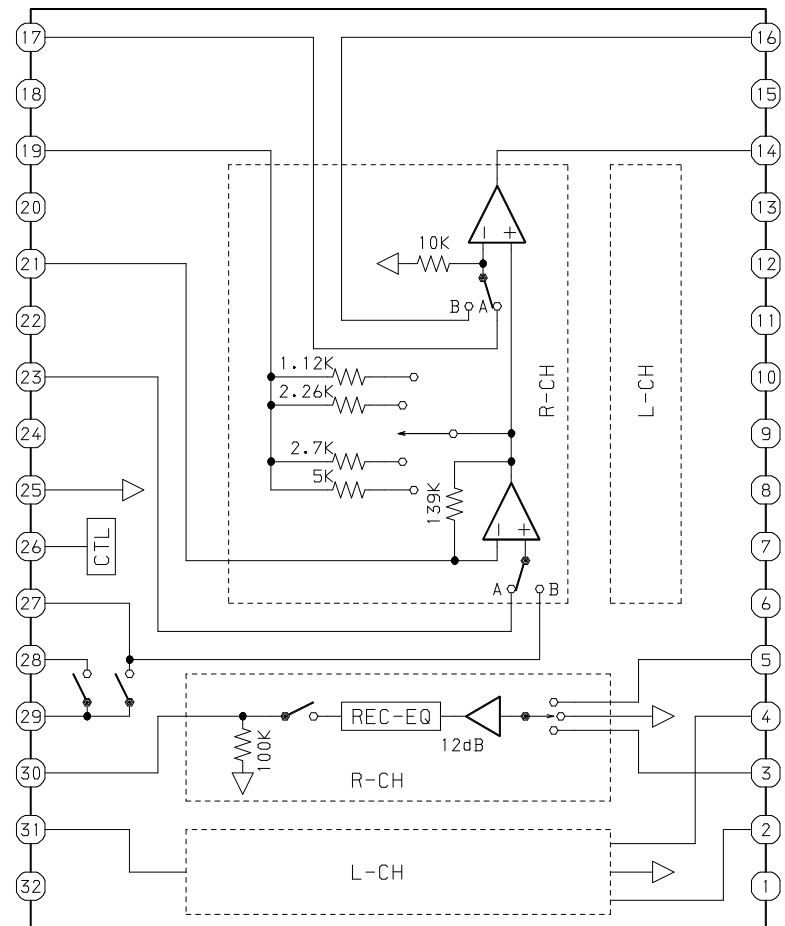
IC, LC72131D



IC, BU2092F



IC, BA7762AFS



< TUNER SECTION >

1. Clock frequency Check
Settings : • Test point : TP2 (CLK)
Method : Set to AM 1602kHz and check that the test point is 2052kHz \pm 45Hz.
2. AM VT Check
Settings : • Test point : TP1 (VT)
Method : Set to AM 1602kHz, 531kHz and check that the test point is less than 8.0V (1602kHz) and more than 0.6V (531kHz).
3. FM VT Check
Settings : • Test point : TP1 (VT)
Method : Set to FM 87.5MHz, 108.0MHz and check that the test point is more than 0.5V (87.5MHz) and less than 8.0V (108.0MHz).
4. AM Tracking Adjustment
Settings : • Test point : TP5(Lch), TP6(Rch)
• Adjustment location :
L951(1/3) 999kHz
Method : Set to AM 999kHz and adjust L951(1/3) to MAX.
5. FM Tracking Check
Settings : • Test point : TP5(Lch), TP6(Rch)
Method : Set to FM 98.0MHz and check that the test point is less than 9dB μ V.
6. AM IF Adjustment
Settings : • Test point : TP5(Lch), TP6(Rch)
• Adjustment location :
L802 450kHz
7. DC Balance / Mono Distortion Adjustment
Settings : • Test point : TP3, TP4 (DC balance)
• Test point : TP5(Lch), TP6(Rch)
• Adjustment location : L801
• Input level : 60dB μ V
Method : Set to FM 98.0MHz and adjust L801 so that the distortion is minimum. Then check the voltage between TP3 and TP4 is 0V \pm 300mV.

< DECK SECTION >

8. Tape Speed Adjustment (DECK 2)
Settings : • Test tape : TTA-100
• Test point : TP5(Lch), TP6(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.
9. Head Azimuth Adjustment (DECK 1, DECK 2)
Settings : • Test tape : TTA-330
• Test point : TP5(Lch), TP6(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.
10. PB Frequency Response Check (DECK 1, DECK 2)
Settings : • Test tape : TTA-330
• Test point : TP5(Lch), TP6(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 within 5dB.
11. PB Sensitivity Check (DECK 1, DECK 2)
Settings : • Test tape : TTA-200
• Test point : TP5(Lch), TP6(Rch)
Method : Play back the test tape and check that the output level of the test point is 230mV \pm 3dB.
12. REC/PB Frequency Response Adjustment (DECK 2)
Settings : • Test tape : TTA-602
• Test point : TP5(Lch), TP6(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 TP5, TP6 becomes -20VU (16mV). 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.
13. REC/PB Sensitivity Check (DECK 2)
Settings : • Test tape : TTA-602
• Test point : TP5(Lch), TP6(Rch)
• Input signal : 1kHz (LINE IN)
Method : Apply a 1kHz signal and REC mode. Then adjust OSC attenuator so that the output level at TP5, TP6 becomes 0VU (160mV). Record and play back the 1kHz signals and check that the output is 0dB \pm 3.5dB.

< MICON SECTION >

14. μ -CON OSC Adjustment
Settings : • Test point : TP7 (O-KSCAN)
• Adjustment location : L101
Method : Insert AC plug while pressing TUNER function key and POWER on key. Adjust L101 so that the frequency at the test point is 208.80Hz \pm 0.21Hz.

IC DESCRIPTION

IC, LC876580W-5R55

Pin No.	Pin Name	I/O	Description
1	M-CLK	O	Common serial clock.
2	M-DATA	O	Common serial data.
3	M-STB	O	Common serial strobe.
4	PLL-CE	O	Tuner PLL IC chip enable.
5	SR-LCK	O	Shift register IC LATCH clock.
6	RYM-CS	O	RHYTHM IC chip select.
7	POWER	O	Audio power ON/OFF.
8	MUTE	O	System MUTE ON/OFF.
9	$\overline{\text{C-SHIFT}}$	O	CLOCK SHIFT output. "L" : SHIFT
10	$\overline{\text{HP-MUTE}}$	I	Head phone jack detection. "L" : MUTE
11	RESET	I	System RESET input.
12	RTVR	I	Volume rotary encoder.
13	JOG	I	Dial JOG rotary encoder.
14	GND	–	Connected to GND.
15	CF1	I	Oscillator circuit input.
16	CF2	O	Oscillator circuit output.
17	VDD	–	Power supply.
18	HOLD	I	System HOLD input.
19	KEY1	I	Tact key matrix 1 input.
20	KEY2	I	Tact key matrix 2 input.
21	KEY3	I	Tact key matrix 3 input.
22	CD-SW	I	CD MECHA SW matrix input.
23	DISH	I	CD turntable photo sensor.
24	SPEANA	I	Spectrum analyser level detection.
25	MIC	I	MIC input level detection.
26	RDS-SG	I	RDS signal level input. (Not used)
27	TM-BASE	I	Time base clock input.
28	CD-WRQ/ RDS-CLK	I	CD Read Write Request / Tuner RDS clock input (Not used).
29	REM	I	Remote control signal input.
30 ~ 42	G13 ~ G1	O	FL grid G13 ~ G1 output.
43 ~ 45	P38 ~ P36	O	FL segment P38 ~ P36 output.
46	VDD	–	Power supply.
47	P35/SPEANA–A	O	FL segment P35 output / Spectrum analyser BPF switching control A output.
48	P34/SPEANA–B	O	FL segment P34 output / Spectrum analyser BPF switching control B output.
49	P33/SPEANA–C	O	FL segment P33 output / Spectrum analyser BPF switching control C output.
50	P32/CSNDEMO	O/I	FL segment P32 output / Initial DEMO MODE detect. "H" : CASINO DEMO.
51	–VP	–	Power supply for FL.
52	P31/TU3	O/I	FL segment P31 output / TUNER series, TU3 select (Not used).
53	P30/TU2	O/I	FL segment P30 output / TUNER series, TU2 select.
54	P29/TU1	O/I	FL segment P29 output / TUNER series, TU1 select.

Pin No.	Pin Name	I/O	Description
55	P28/ $\overline{\text{DSP}}$	O/I	FL segment P28 output / DSP function detection. "L" : ON (Not used).
56	P27/RHYTHM	O/I	FL segment P27 output / RHYTHM function detection. "H" : ON
57	P26/KEYCON	O/I	FL segment P26 output / KEYCON function detection. "H" : ON
58	P25/5MODE	O/I	FL segment P25 output / GEQ 5MODE select. "H" : 5 MODE (Not used)
59	P24/ $\overline{\text{ECO}}$	O/I	FL segment P24 output / ECO mode detection. "H" : ECO OFF
60	P23	O/I	FL segment P23 output.
61	P22	O/I	FL segment P22 output.
62	P21/5.1+DLPRO	O/I	FL segment P21 output / 5.1CH+PROLOGIC detection. "H" : ON
63	P20/DLPRO	O/I	FL segment P20 output / DOLBY PROLOGIC detection. "H" : ON (Not used)
64	P19/ $\overline{\text{CST2}}$	O/I	FL segment P19 output / Deck 2 cassette detection. "L" : ON
65	P18/ $\overline{\text{REB}}$	O/I	FL segment P18 output / Deck 2 side B recordable SW. "L" : REC
66	P17/ $\overline{\text{CAM2}}$	O/I	FL segment P17 output / Deck 2 CAM SW input. "L" : ON
67	P16/AUTO1	O/I	FL segment P16 output / Deck 1 auto stop input.
68	P15/AUTO2	O/I	FL segment P15 output / Deck 2 auto stop input.
69	P14/ $\overline{\text{CAM1}}$	O/I	FL segment P14 output / Deck 1 CAM SW input. "L" : ON
70	P13/ $\overline{\text{CST1}}$	O/I	FL segment P13 output / Deck 1 cassette detection SW. "L" : ON
71	P12/ $\overline{\text{REA}}$	O/I	FL segment P12 output / Deck 2 side-A recordable SW. "L" : REC
72	VDD	–	Power supply.
73 ~ 83	P11 ~ P1	O	FL segment P11 ~ P1 output.
84	P39	O	FL segment P39 output.
85	$\overline{\text{KEYSCAN}}$	O	KEYSCAN output. "L" : ON
86	$\overline{\text{MOTOR}}$	O	DECK motor ON/OFF control. "L" : ON
87	$\overline{\text{SOL1}}$	O	DECK 1 solenoid control. "L" : ON
88	$\overline{\text{SOL2}}$	O	DECK 2 solenoid control. "L" : ON
89	GND	–	Connected to GND.
90	VDD	–	Power supply.
91	DISH-RVS	O	CD dish reverse output. "H" : REV
92	DISH-FWD	O	CD dish forward output. "H" : FWD
93	$\overline{\text{OPEN}}$	O	CD tray OPEN output. "L" : OPEN
94	$\overline{\text{CLOSE}}$	O	CD tray CLOSE output. "L" : CLOSE
95	CD-DATA/ RDS DATA	O/I	Serial data output to CD / RDS serial data input (Not used).
96	CD-XLT	O	CD DSP serial LATCH output. (Chip enable)
97	CD-CLK	O	CD DSP serial CLOCK output.
98	CD-LED	O	CD flash window LED control.
99	CD-SUBQ/IFC	I	CD SUBQ (Sub code) serial data input / TUNER IF COUNT data input.
100	DRF/STEREO	I	RF (radio frequency) detect / TUNER STEREO signal input.

ANODE CONNECTION

	1G	2G	3G	4G	5G	6G	7G	8G	9G	10G	11G	12G	13G
P1	SLEEP	-	1-1	1-1	1-1	1-1	1-1	1-1	1-1	1-1	S30	S31	S31
P2	REC	-	2-1	2-1	2-1	2-1	2-1	2-1	2-1	2-1	1	S32	S32
P3	Ⓛ	-	3-1	3-1	3-1	3-1	3-1	3-1	3-1	3-1	2	S33	S33
P4	S1	-	4-1	4-1	4-1	4-1	4-1	4-1	4-1	4-1	3	S34	S34
P5	S2	-	5-1	5-1	5-1	5-1	5-1	5-1	5-1	5-1	4	B1	B1
P6	S3	-	1-2	1-2	1-2	1-2	1-2	1-2	1-2	1-2	5	B8	B8
P7	S9	-	2-2	2-2	2-2	2-2	2-2	2-2	2-2	2-2	6	B15	B15
P8	S10	-	3-2	3-2	3-2	3-2	3-2	3-2	3-2	3-2	7	B22	B22
P9	S7	-	4-2	4-2	4-2	4-2	4-2	4-2	4-2	4-2	8	B2	B2
P10	S14	-	5-2	5-2	5-2	5-2	5-2	5-2	5-2	5-2	9	B9	B9
P11	S13	a	1-3	1-3	1-3	1-3	1-3	1-3	1-3	1-3	10	B16	B16
P12	S11	b	2-3	2-3	2-3	2-3	2-3	2-3	2-3	2-3	11	B23	B23
P13	S4	f	3-3	3-3	3-3	3-3	3-3	3-3	3-3	3-3	12	B3	B3
P14	S12	g	4-3	4-3	4-3	4-3	4-3	4-3	4-3	4-3	13	B10	B10
P15	S6	c	5-3	5-3	5-3	5-3	5-3	5-3	5-3	5-3	14	B17	B17
P16	S15	e	1-4	1-4	1-4	1-4	1-4	1-4	1-4	1-4	15	B24	B24
P17	S16	d	2-4	2-4	2-4	2-4	2-4	2-4	2-4	2-4	16	B4	B4
P18	S5	VF	3-4	3-4	3-4	3-4	3-4	3-4	3-4	3-4	17	B11	B11
P19	S17	Ⓜ	4-4	4-4	4-4	4-4	4-4	4-4	4-4	4-4	18	B18	B18
P20	S18	(((○)))	5-4	5-4	5-4	5-4	5-4	5-4	5-4	5-4	19	B25	B25

CD TEST MODE

1. Starting Up the CD Test Mode

While pressing the “CD” button, connect the AC plug to the power outlet.

When the CD test mode starts up, it displays “TEST” and all displays will turn on (Start Mode) in approximately 15 seconds.

2. How to Cancel the CD Test Mode

To cancel the CD Test Mode, press the “POWER” button or disconnect the AC plug from the power outlet.

*Press other function keys to cancel the test mode while playing.

3. Function Description and How to Use the CD Test Mode

No.	Mode	How to Control	Display	Operations	Check List
1	Start Mode		All lit	* FL all lit	* Check FL * Check Micom
2	Search Mode	STOP button	CD	* LD lights * Continuous Focus Search *1 * Continuous Spindle Motor kick	* Check APC circuit * Measure laser current * Check Focus Search Waveform * Check Focus Error Waveform (Ignore any DRF in Search Mode)
3	Play Mode	PLAY button	Normal	* Normal Playback * If TOC reading is not possible, Focus Search continues.	* Check Each Servo circuit * Check DRF
4	Traverse Mode	PAUSE button	Normal	* Tracking Servo OFF/ON Switch between OFF and ON when PAUSE button is pressed.	* Check tracking balance
5	Sled Mode	FF button	CD TEST	* Shift PU to the outermost track.*2 Kick the lens to the outermost track simultaneously	* Check Sled circuit * Check Tracking circuit * Check Mechanism operation * Check PU
		RWD button	CD TEST	* Shift PU to the innermost track.*2 Kick the lens to the innermost track simultaneously.	

* 1: If the focus search is continuously operated for more than 10 minutes, the driver IC will heat up high enough to trigger the protection circuit to shut down the CD system. Turn off the main power and re-start it later.

* 2: When pressing FF or RWD buttons, take care to avoid damage to the gears. Because the sled motor is activated when the FF or RWD buttons are pressed, even when the pick-up is at the outermost or innermost track.

MECHANICAL PARTS LIST 1 / 1

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	8A-MA3-094-010		RING,MAIN	45	8A-MAP-001-010		CABI,FR DPL 3
2	8A-MA3-090-110		KNOB,RTRY MAIN	46	8A-MA3-062-110		KEY,MIC
3	87-NF8-220-010		DMPR,150	47	8A-MA3-207-010		HLDR,PWB MAIN H
4	82-NF5-219-010		SPR-T,EJECT 2 (SIN)	48	88-MA1-208-210		JOINT,CABI
5	87-NF4-217-110		HLDR,LOCK 2	49	8A-MA3-212-010		HLDR,PWB PT
6	86-NF9-224-010		SPR-C,LOCK	50	8A-MA2-202-010		HLDR,FAN
7	82-NF5-229-010		PLATE,LOCK	51	8A-MA3-211-010		COVER, FAN
8	86-NF6-061-010		REFLECTOR,CASS	52	87-064-185-010		HLDR,WIRE
9	8A-MA3-026-110		BOX,CASS R	53	87-A91-711-010		FAN, 3110GL-B4W-B34-H02 -400MM
10	8A-MA3-056-110		WINDOW,CASS R	54	84-ZG1-245-210		CAP,OPTICAL
11	8A-MA3-036-010		PANEL,CASS R 3	55	8A-MGP-011-010		CABI,REAR HR P
12	8A-MA3-025-110		BOX,CASS L	56	8A-MA3-214-010		W,3.5-6.5-1 W/ADH
13	8A-MA3-055-110		WINDOW,CASS L	57	82-NF7-599-010		W-F,3.2-8-1.0
14	8A-MA3-035-010		PANEL,CASS L 3	58	8A-NF3-221-010		HLDR,IC-VM
15	8A-MA3-041-110		PANEL,FUN 5F	59	8A-MA3-205-110		HLDR,HT-SINK L
16	81-532-080-010		LABEL, CASS. COMPT	60	8A-MA3-206-110		HLDR,HT-SINK R
17	8A-MA3-102-010		REFLECTOR,FUN 5F	61	87-A91-423-010		FAN,AD0612DS-D7OGL
18	8A-MGP-051-010		WINDOW,DISP VCD P 770<770HR>	62	8A-NF3-223-010		HLDR,FAN
18	8A-MGP-050-010		WINDOW,DISP VCD P 970<970HR>	63	87-A80-148-010		AC CORD ASSY,E BLK
19	82-NF5-218-010		SPR-T,EJECT 1 (SIN)	64	87-085-185-010		BUSHING, AC CORD (E)
20	8A-MA3-034-010		PANEL,CD LED	65	87-MA3-062-010		FOOT, H17
21	8A-MG3-037-010		PANEL ASSY,TRAY VCD 3	66	8A-MA3-045-010		PANEL,SIDE L 3
22	87-NF4-216-010		HLDR,LOCK 1	67	8A-MA3-046-010		PANEL,SIDE R 3
23	8A-MAP-110-010		PLATE,DPL	A	87-078-060-010		BVIT3PB+3-10
24	87-B00-002-010		BADGE,AIWA 30 ABS SIL	B	87-591-095-410		TAPPING SCREW, QIT+3-8 (GLD)
25	8A-MA3-093-010		KNOB ASSY,RTRY JOG	C	87-NF4-224-010		S-SCREW,IT3B+3-8 CU
26	8A-MGP-030-010		PANEL,FR VCD P	D	81-MK1-210-010		S-SCREW,VFT2+3-16
27	8A-MA3-071-010		KEY,TIMER	E	87-067-688-010		BVTT+3-6
28	8A-MA3-072-010		KEY,FREQ	F	87-067-975-010		S-SCREW,IT+4-8
29	8A-MA3-073-010		KEY,ENTER	G	87-067-703-010		TAPPING SCREW, BVT2+3-10
30	8A-MA3-074-010		KEY,RHYTHM	H	87-067-758-010		BVT2+3-12 W/O SLOT
31	8A-MGP-069-010		KEY,PBC P	I	87-067-581-010		TAPPING SCREW, BVT2+3-15
32	8A-MA3-080-010		KEY ASSY,GEQ 4M PM	J	87-067-579-010		TAPPING SCREW, BVT2+3-8
33	8A-MA3-210-110		GUIDE,LED OPE	K	87-067-641-010		UTT2+3-8(W/O SLOT)BL
34	8A-MG3-070-010		KEY,CONT 3	L	87-067-822-010		BVT2+3-20 W/O SLOT
35	8A-MA3-084-010		KEY ASSY,FF				
36	8A-MAP-066-010		KEY,FUN 5.1CH 5F				
37	8A-MA3-083-010		KEY ASSY,DIR				
38	8A-MA3-057-010		WINDOW,TOP				
39	8A-MA3-020-110		CABI, TOP				
40	8A-MA3-101-010		REFLECTOR,POWER				
41	8A-MA3-075-010		KEY,POWER				
42	88-MA1-205-010		GUIDE FL				
43	8A-MA3-061-010		KEY,CD				
44	8A-MA3-100-010		REFLECTOR,CD				

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

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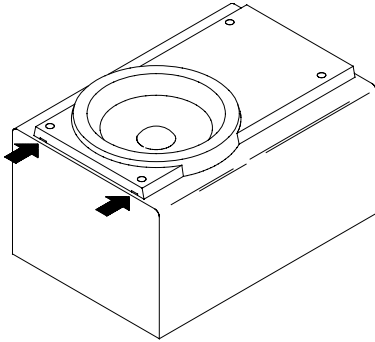
TAPE MECHANISM PARTS LIST 1 / 1

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	82-ZM3-301-610		CHAS ASSY,M2	31	82-ZM1-255-310		SPR-E,LVR DIR
2	82-ZM1-258-210		SPR-T,PINCH L	32	82-ZM3-305-210		GEAR,CAM M2
3	82-ZM1-341-210		LVR ASSY,PINCH L2	33	82-ZM1-227-310		LVR,TRIG
4	82-ZM1-333-210		PLATE,LINK2	34	82-ZM3-306-110		LVR,FR M2
5	82-ZM1-266-310		LVR,DIR	35	82-ZM1-265-310		SPR-E,TRIG
6	82-ZM1-214-010		SPR-T,DIR	36	82-ZM3-342-010		BELT,SBU MOT 3
7	82-ZM1-206-910		CHAS,HEAD	37	80-ZM6-243-010		SH 1.75-3.6-0.5 SLT
8	82-ZM3-335-310		PULLEY,COUPLER M3	38	82-ZM1-322-010		SPR-T,FR 60
9	82-ZM1-269-210		SPR-T,BRG	39	82-ZM1-220-210		GEAR,IDLER
10	82-ZM1-219-110		SPR-T,LINK	40	82-ZM3-616-010		RING MAGNET 4
11	82-ZM1-210-110		GEAR,H T	41	82-ZM1-216-410		GEAR,REEL
12	82-ZM1-213-010		SPR-T,HEAD	42	87-A90-366-110		HEAD,PH YK50P-BF414 FPC
13	82-ZM1-207-910		GUIDE,TAPE	42	87-A90-367-110		HEAD,RPH YK56R-BF414 FPC
14	86-ZM4-206-010		S-SCREW,AZIMUTH L	43	82-ZM1-225-210		GEAR,FR
15	82-ZM1-314-110		PLATE,HEAD	44	82-ZM1-226-010		GEAR,REW
16	82-ZM1-208-310		HLDR,HEAD	45	82-ZM3-333-310		SLIP DISK ASSY 2
17	82-ZM1-218-010		SPR-E,HB	46	82-ZM1-338-110		BELT,FR 4
18	86-ZM1-206-010		BELT,MAIN L	47	82-ZM1-349-110		FLY-WHL,R W
19	82-ZM1-222-210		LVR,PLAY	47	82-ZM3-338-310		FLY-WHL,R3W
20	82-ZM1-217-410		REEL TABLE	48	82-ZM1-348-110		FLY-WHL,L W
21	82-ZM1-244-510		SPR-C,BT	49	82-ZM3-329-410		BELT,SBU R2
22	82-ZM1-285-410		SPR-C,BT L	50	82-ZM1-626-110		SOL ASSY,27K
23	82-ZM1-257-010		SPR-T,CAS	51	87-045-347-010		MOT,SHU2L 70
24	82-ZM1-241-310		LVR,MC	52	82-ZM3-221-210		PULLEY,MOT 2M
25	82-ZM1-242-010		LVR,CAS	A	85-ZM3-202-010		S-SCREW, TG
26	82-ZM1-243-010		LVR,STOP	B	80-ZM6-207-010		V+1.6-7
27	82-ZM1-344-210		LVR ASSY,PINCH R2	C	82-ZM3-318-110		S-SCREW W,MOTOR M2
28	82-ZM1-259-210		SPR-T,PINCH R	D	87-B10-043-010		W-P,0.99-4-0.25 SLT
29	82-ZM1-240-110		LVR,REC(*)	E	82-ZM3-334-010		PW 2.16-6-0.4
30	82-ZM3-339-110		SHAFT,COUPLER N3	F	82-ZM3-222-010		S-SCREW,SHILD PLATE

SPEAKER DISASSEMBLY INSTRUCTIONS

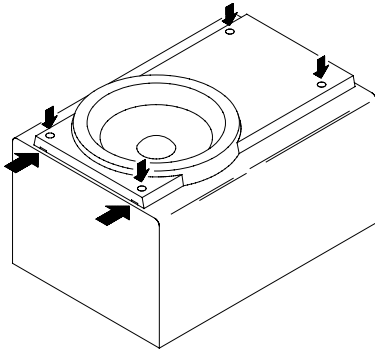
Type.1

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.



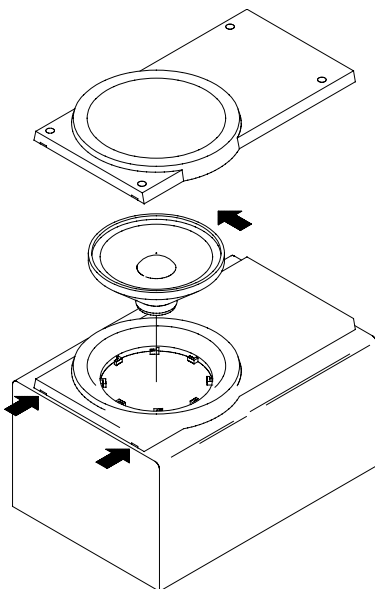
Type.2

Remove the grill frame and four pieces of rubber caps by pulling out with a flat-bladed screwdriver. Remove the screws from hole 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.

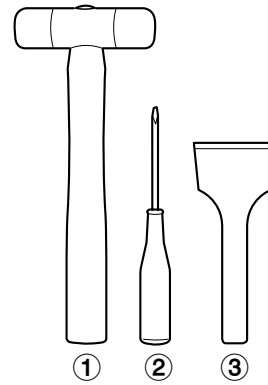


Type.3

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.

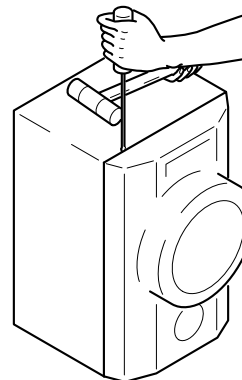


Fig-1

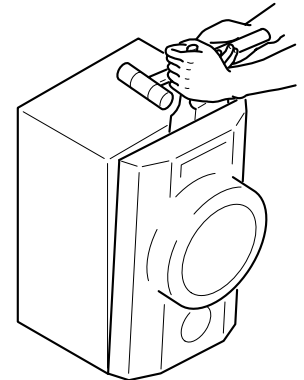


Fig-2

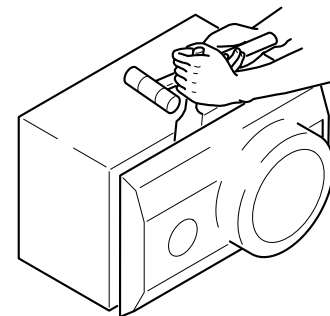


Fig-3

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 (SX-ZHT730 <YSL> / SX-ZHT930 <YJSL, YJ7STL>)

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	8A-MSF-001-010		PANEL,FR
2	8A-MSF-002-010		RING,W
3	8A-MSF-003-010		PLATE,NAME
4	8A-MSF-004-010		PROTECTOR,TW
5	8A-MSF-005-010		GRILLE,FRAME ASSY
6	8A-NSJ-006-010		BADGE,AIWA S35
7	8A-MSD-601-010		SPKR, W 200
8	8A-MS2-605-110		SPKR, TW 60
9	88-NSK-610-010		SPKR,CERAMIC ASSY
10	87-NS7-611-010		CORD,SPKR

SPEAKER PARTS LIST (SX-CR677 <YJSTC, YJ7STL>)

NOTE: This SX-CR677 speaker contains SX-C607 (center speaker) and SX-R277 (surround speaker).

1	8Z-YS1-002-010		GRILLE,FRAME ASSY
2	81-VSA-009-010		CORD BUSH
3	8Z-YS1-601-010		SPKR, 100<YJSTC>
3	8Z-YS1-601-110		SPKR, 100<YJ7STL>
4	87-YS6-002-010		SPKR, CORD Y
5	87-YS7-012-010		PANEL,FR S
6	87-010-384-010		CAP,E 100-25 SME
7	87-YS3-003-010		GRILL FRAME ASSY
8	81-VSA-009-010		CORD BUSH
9	87-YS7-602-010		SPKR, 100<YJSTC>
9	87-YS7-604-010		SPKR, 100<YJ7STL>

ACCESSORIES / PACKAGE LIST

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	8A-MGP-901-010		IB,HR (ECA) M
2	87-A90-119-010		ANT,WIRE SW(5M)
3	87-006-226-010		ANT,LOOP AM
4	8Z-NHT-702-010		RC UNIT,RC-ZAS08
5	87-043-115-010		FEDER-ANT,FM
6	87-050-103-010		CORD,PIN 1PY1.5M
7	87-099-789-010		PLUG,CONVERSION IR44

