

SERVICE MANUAL

STEREO CAR CD RECEIVER

BASIC CD MECHANISM : BZG-3 BNF

- This Service Manual is the "Revision Publishing" and replaces "Simple Manual" of CDC-Z127 YU(S), (S/M Code No. 09-01C-453-2T1).

aiwa

S/M Code No. 09-01C-453-2R1

REVISION

DATA

SPECIFICATIONS

RADIO SECTION

(FM)

Frequency Range: 87.5 MHz – 108 MHz

Usable Sensitivity: 12.7 dBf

50 dB Quieting Sensitivity: 17.2 dBf

IF Rejection: 100 dB

Frequency Response: 30 Hz – 15,000 Hz

S/N Ratio: 70 dB

Stereo Separation: 35 dB at 1 kHz

Alternate Channel Selectivity: 90 dB

Capture Ratio: 3 dB

(AM)

Frequency Range: 530 kHz – 1,710 kHz

Usable Sensitivity: 30 μ V (30 dB)

CD SECTION

Frequency Response: 17 Hz – 20 kHz +0/-3 dB

Dynamic Range: More than 85 dB

Channel Separation: More than 60 dB

S/N Ratio: More than 90 dB

Wow/Flutter: Unmeasurable

AUDIO SECTION

Max. Power Output: 45 W x 4 channels

AUX input

Input Sensitivity (load impedance) AUX: 300 mV (10 k Ω)

GENERAL

Power-Supply Voltage: 14.4 V (11 to 16 V allowable),
DC, negative ground

Load Impedance: 4 Ω

Tone Control: Bass \pm 10 dB at 100 Hz, Treble \pm 10 dB at 10 kHz

Preamp Output Voltage (load impedance): 2.2 V (10 k Ω)

Installed Size: 182 (W) x 53 (H) x 155 (D) mm
(7¹/₄ (W) x 2¹/₈ (H) x 6¹/₈ (D) inches)

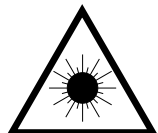
- Design and specifications are subject to change without notice.

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 käyt-täjän 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.

Precaution to replace Optical block (OPTIMA720 JVC)

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 the right figure.

CAUTION

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

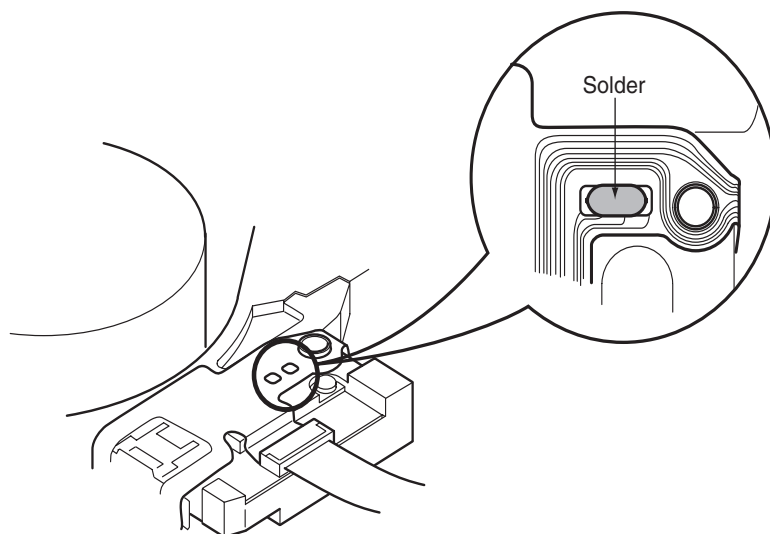
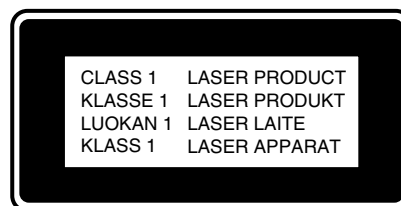
ATTENTION

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.



CAUTION WHEN SERVICING

1. Procedure for Disassembly

- 1) Remove COVER TOP/COVER BOTTOM.
- 2) Remove the screws attached to CD MECHANISM (indicated with an arrow). Refer to Fig-1.



Fig-1

2. Service Position

Remove CD MECHANISM, and check the movement while a stable condition is maintained. Refer to Fig-2.



Fig-2

ELECTRICAL PARTS LIST (CDC-Z127)

! = Δ SAFTY PARTS
 C = Components marked

All components used on this model at the production line are shown in this service manual.

However, please note that not all components will be available as spare parts for after-sales service.

Components marked S and O are designated as spare parts for service and will be stocked at the spare parts centers.

Components marked X and R are not designated as spare parts for after sales service, and will not be stocked at the spare parts centers.

UNIT-NAME	! C	REF-NO	PARTS-NO	PARTS-NAME	SUFFIX&MODEL
CDC-Z127					
YUSF					
AUX	O	CON0731	87-A60-912-010	CONN,3P V IMSA-9202B-1	a
AUX	O	J 0731	85-HRL-623-010	JACK,3.5 BLK ST BLK	a
FRONT	O	C 0601	87-A10-047-080	C-CAP,U 1-10 Z F	a
FRONT	O	C 0604	87-012-273-080	C-CAP,U 820P-50 K B	a
FRONT	O	C 0605	87-A10-260-080	C-CAP,U 0.1-16 K B	a
FRONT	S	IC 0601	87-A21-489-030	C-IC,LC75853NW	a
FRONT	X	JR 0600	88-129-000-080	C-JUMPER, 3216	a
FRONT	X	JR 0601	88-129-000-080	C-JUMPER, 3216	a
FRONT	X	JR 0602	88-129-000-080	C-JUMPER, 3216	a
FRONT	X	JR 0603	88-129-000-080	C-JUMPER, 3216	a
FRONT	X	JR 0604	88-129-000-080	C-JUMPER, 3216	a
FRONT	X	JR 0605	88-129-000-080	C-JUMPER, 3216	a
FRONT	X	JR 0606	88-129-000-080	C-JUMPER, 3216	a
FRONT	X	JR 0607	88-129-000-080	C-JUMPER, 3216	a
FRONT	X	JR 0608	88-129-000-080	C-JUMPER, 3216	a
FRONT	X	JR 0610	88-129-000-080	C-JUMPER, 3216	a
FRONT	X	JR 0611	88-129-000-080	C-JUMPER, 3216	a
FRONT	X	JR 0612	88-129-000-080	C-JUMPER, 3216	a
FRONT	X	JR 0613	88-129-000-080	C-JUMPER, 3216	a
FRONT	X	JR 0615	88-129-000-080	C-JUMPER, 3216	a
CDC-Z127					
YUSF					
FRONT	X	JR 0616	88-129-000-080	C-JUMPER, 3216	a
FRONT	X	JR 0617	88-129-000-080	C-JUMPER, 3216	a
FRONT	X	JR 0618	88-129-000-080	C-JUMPER, 3216	a
FRONT	X	JR 0619	88-129-000-080	C-JUMPER, 3216	a
FRONT	X	JR 0620	88-129-000-080	C-JUMPER, 3216	a
FRONT	X	JR 0621	88-129-000-080	C-JUMPER, 3216	a
FRONT	X	JR 0622	88-129-000-080	C-JUMPER, 3216	a
FRONT	X	JR 0623	88-129-000-080	C-JUMPER, 3216	a
FRONT	X	JR 0624	88-129-000-080	C-JUMPER, 3216	a
FRONT	X	JR 0625	88-129-000-080	C-JUMPER, 3216	a
FRONT	X	JR 0626	88-129-000-080	C-JUMPER, 3216	a
FRONT	X	JR 0627	88-129-000-080	C-JUMPER, 3216	a
FRONT	X	JR 0628	88-129-000-080	C-JUMPER, 3216	a
FRONT	X	JR 0629	88-129-000-080	C-JUMPER, 3216	a
FRONT	X	JR 0630	88-129-000-080	C-JUMPER, 3216	a
FRONT	X	JR 0631	88-129-000-080	C-JUMPER, 3216	a
FRONT	X	JR 0632	88-129-000-080	C-JUMPER, 3216	a
FRONT	X	JR 0633	88-129-000-080	C-JUMPER, 3216	a
FRONT	X	JR 0634	88-129-000-080	C-JUMPER, 3216	a
FRONT	X	JR 0635	88-129-000-080	C-JUMPER, 3216	a
CDC-Z127					
YUSF					
FRONT	X	JR 0636	88-129-000-080	C-JUMPER, 3216	a
FRONT	X	JR 0637	88-129-000-080	C-JUMPER, 3216	a
FRONT	X	JR 0638	88-129-000-080	C-JUMPER, 3216	a
FRONT	X	JR 0639	88-129-000-080	C-JUMPER, 3216	a
FRONT	X	JR 0640	88-129-000-080	C-JUMPER, 3216	a
FRONT	X	JR 0641	88-129-000-080	C-JUMPER, 3216	a
FRONT	X	JR 0642	88-129-000-080	C-JUMPER, 3216	a
FRONT	X	JR 0643	88-129-000-080	C-JUMPER, 3216	a
FRONT	X	JR 0644	88-129-000-080	C-JUMPER, 3216	a
FRONT	X	JR 0645	88-129-000-080	C-JUMPER, 3216	a
FRONT	X	JR 0646	88-129-000-080	C-JUMPER, 3216	a
FRONT	X	JR 0647	88-129-000-080	C-JUMPER, 3216	a
FRONT	X	JR 0648	88-129-000-080	C-JUMPER, 3216	a
FRONT	X	JR 0651	88-129-000-080	C-JUMPER, 3216	a
FRONT	X	JR 0652	88-129-000-080	C-JUMPER, 3216	a
FRONT	X	JR 0653	88-129-000-080	C-JUMPER, 3216	a
FRONT	X	JR 0654	88-129-000-080	C-JUMPER, 3216	a
FRONT	X	JR 0655	88-129-000-080	C-JUMPER, 3216	a
FRONT	X	JR 0656	88-129-000-080	C-JUMPER, 3216	a
FRONT	X	JR 0657	88-129-000-080	C-JUMPER, 3216	a
CDC-Z127					
YUSF					
FRONT	X	JR 0658	88-129-000-080	C-JUMPER, 3216	a
FRONT	X	JR 0659	88-129-000-080	C-JUMPER, 3216	a
FRONT	X	JR 0660	88-129-000-080	C-JUMPER, 3216	a
FRONT	X	JR 0661	88-129-000-080	C-JUMPER, 3216	a
FRONT	X	JR 0664	88-129-000-080	C-JUMPER, 3216	a
FRONT	X	JR 0665	88-129-000-080	C-JUMPER, 3216	a
FRONT	X	JR 0666	88-129-000-080	C-JUMPER, 3216	a
FRONT	X	JR 0667	88-129-000-080	C-JUMPER, 3216	a
FRONT	X	JR 0668	88-129-000-080	C-JUMPER, 3216	a
FRONT	X	JR 0669	88-129-000-080	C-JUMPER, 3216	a
FRONT	X	JR 0670	88-129-000-080	C-JUMPER, 3216	a
FRONT	X	JR 0671	88-118-000-080	C-JUMPER,S	a
FRONT	X	JR 0672	88-118-000-080	C-JUMPER,S	a
FRONT	X	JR 0673	88-118-000-080	C-JUMPER,S	a
FRONT	X	JR 0674	88-118-000-080	C-JUMPER,S	a
FRONT	X	JR 0675	88-118-000-080	C-JUMPER,S	a
FRONT	X	JR 0676	88-118-000-080	C-JUMPER,S	a
FRONT	X	JR 0677	88-118-000-080	C-JUMPER,S	a
FRONT	X	JR 0678	88-118-000-080	C-JUMPER,S	a
FRONT	X	JR 0680	88-118-000-080	C-JUMPER,S	a

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					CDC-Z127
					YUSF
FRONT	X	JR 0681	88-118-000-080	C-JUMPER,S	a
FRONT	X	JR 0682	88-118-000-080	C-JUMPER,S	a
FRONT	X	JR 0683	88-118-000-080	C-JUMPER,S	a
FRONT	O	LCD0601	8C-KCG-616-010	LCD,CKC-F-G-H	a
FRONT	O	LED0651	87-A92-307-090	LED,KM2520SRC30 RED	a
FRONT	O	LED0652	87-A92-307-090	LED,KM2520SRC30 RED	a
FRONT	O	LED0653	87-A92-307-090	LED,KM2520SRC30 RED	a
FRONT	O	LED0661	87-A41-085-010	LED,NSPW315BS WHT	a
FRONT	O	LED0671	87-A92-042-090	LED,KM2520MBC30 BLU	a
FRONT	O	LED0672	87-A92-042-090	LED,KM2520MBC30 BLU	a
FRONT	O	LED0673	87-A92-042-090	LED,KM2520MBC30 BLU	a
FRONT	S Q	0661	89-324-122-040	C-TR,2SC2412KR	a
FRONT	S Q	0671	89-324-122-040	C-TR,2SC2412KR	a
FRONT	X R	0604	88-108-683-080	C-RES,U 68K-1/16W J	a
FRONT	X R	0605	88-108-102-080	C-RES,U 1K-1/16W J	a
FRONT	X R	0606	88-108-102-080	C-RES,U 1K-1/16W J	a
FRONT	X R	0607	88-108-102-080	C-RES,U 1K-1/16W J	a
FRONT	X R	0608	88-108-102-080	C-RES,U 1K-1/16W J	a
FRONT	X R	0609	88-108-102-080	C-RES,U 1K-1/16W J	a
FRONT	X R	0651	88-108-472-080	C-RES,U 4.7K-1/16W J	a
					CDC-Z127
					YUSF
FRONT	X R	0652	88-118-102-080	C-RES,S 1K-1/10W J	a
FRONT	X R	0653	88-108-472-080	C-RES,U 4.7K-1/16W J	a
FRONT	X R	0661	88-118-331-080	C-RES,S 330-1/10W J	a
FRONT	X R	0662	88-108-682-080	C-RES,U 6.8K-1/16W J	a
FRONT	X R	0663	88-108-102-080	C-RES,U 1K-1/16W J	a
FRONT	X R	0671	88-118-391-080	C-RES,S 390-1/10W J	a
FRONT	X R	0672	88-118-391-080	C-RES,S 390-1/10W J	a
FRONT	X R	0673	88-118-391-080	C-RES,S 390-1/10W J	a
FRONT	X R	0674	88-108-682-080	C-RES,U 6.8K-1/16W J	a
FRONT	O SW	0601	87-A90-164-080	SW,TACT SKQNAB(N)	a
FRONT	O SW	0602	87-A90-164-080	SW,TACT SKQNAB(N)	a
FRONT	O SW	0603	87-A90-164-080	SW,TACT SKQNAB(N)	a
FRONT	O SW	0605	87-A90-164-080	SW,TACT SKQNAB(N)	a
FRONT	O SW	0606	87-A90-164-080	SW,TACT SKQNAB(N)	a
FRONT	O SW	0607	87-A90-164-080	SW,TACT SKQNAB(N)	a
FRONT	O SW	0608	87-A90-164-080	SW,TACT SKQNAB(N)	a
FRONT	O SW	0609	87-A91-987-080	SW,TACT SKQCAB	a
FRONT	O SW	0610	87-A90-164-080	SW,TACT SKQNAB(N)	a
FRONT	O SW	0611	87-A90-164-080	SW,TACT SKQNAB(N)	a
FRONT	O SW	0613	87-A91-987-080	SW,TACT SKQCAB	a
					CDC-Z127
					YUSF
FRONT	O SW	0614	87-A91-987-080	SW,TACT SKQCAB	a
FRONT	O SW	0615	87-A91-987-080	SW,TACT SKQCAB	a
FRONT	O SW	0616	87-A91-987-080	SW,TACT SKQCAB	a
FRONT	O SW	0617	87-A91-987-080	SW,TACT SKQCAB	a
FRONT	O SW	0618	87-A91-987-080	SW,TACT SKQCAB	a
FRONT	O SW	0621	87-A90-164-080	SW,TACT SKQNAB(N)	a
FRONT	O SW	0622	87-A92-329-010	SW,RTRY SRP-1211VD	a
MAIN	X *		8Z-KC1-614-010	WIRE,ANT	a
MAIN	O C	0101	87-012-274-080	C-CAP,U 1000P-50 K B	a
MAIN	O C	0102	87-012-286-080	C-CAP,U 0.01-25 K B	a
MAIN	O C	0103	87-012-282-080	C-CAP,U 4700P-50 K B	a
MAIN	O C	0104	87-010-379-040	CAP,E 22-16 M 11L SME	a
MAIN	O C	0108	87-012-281-080	C-CAP,U 3900P-50 K B GRM	a
MAIN	O C	0109	87-012-286-080	C-CAP,U 0.01-25 K B	a
MAIN	O C	0110	87-010-759-080	C-CAP,U 0.1-25 Z F	a
MAIN	O C	0111	87-010-759-080	C-CAP,U 0.1-25 Z F	a
MAIN	O C	0113	87-010-759-080	C-CAP,U 0.1-25 Z F	a
MAIN	O C	0114	87-010-787-080	C-CAP,U 0.022-25 K B	a
MAIN	O C	0115	87-012-286-080	C-CAP,U 0.01-25 K B	a
MAIN	O C	0116	87-010-402-040	CAP,E 2.2-50 M 11L SME	a
					CDC-Z127
					YUSF
MAIN	O C	0121	87-A11-228-080	C-CAP,U 0.027-25 K B	a
MAIN	O C	0122	87-A11-228-080	C-CAP,U 0.027-25 K B	a
MAIN	O C	0123	87-A10-707-080	C-CAP,U 0.47-10 Z F	a
MAIN	O C	0124	87-A10-707-080	C-CAP,U 0.47-10 Z F	a
MAIN	O C	0140	87-012-282-080	C-CAP,U 4700P-50 K B	a
MAIN	O C	0401	87-010-498-040	CAP,E 10-16 M 5L SRE	a
MAIN	O C	0402	87-010-498-040	CAP,E 10-16 M 5L SRE	a
MAIN	O C	0403	87-010-494-040	CAP,E 1-50 M 5L SRE	a
MAIN	O C	0404	87-010-494-040	CAP,E 1-50 M 5L SRE	a
MAIN	O C	0405	87-012-280-080	C-CAP,U 3300P-50 K B	a
MAIN	O C	0406	87-012-280-080	C-CAP,U 3300P-50 K B	a
MAIN	O C	0407	87-010-198-080	C-CAP,S 0.022-25 K B C2012	a
MAIN	O C	0408	87-010-198-080	C-CAP,S 0.022-25 K B C2012	a
MAIN	O C	0409	87-010-498-040	CAP,E 10-16 M 5L SRE	a
MAIN	O C	0410	87-010-498-040	CAP,E 10-16 M 5L SRE	a
MAIN	O C	0411	87-A10-781-080	C-CAP,U 0.15-10 K B	a
MAIN	O C	0412	87-A10-781-080	C-CAP,U 0.15-10 K B	a
MAIN	O C	0413	87-A10-781-080	C-CAP,U 0.15-10 K B	a
MAIN	O C	0414	87-A10-781-080	C-CAP,U 0.15-10 K B	a
MAIN	O C	0415	87-010-498-040	CAP,E 10-16 M 5L SRE	a

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						CDC-Z127
						YUSF
MAIN		O C	0416	87-010-498-040	CAP,E 10-16 M 5L SRE	a
MAIN		O C	0417	87-010-498-040	CAP,E 10-16 M 5L SRE	a
MAIN		O C	0418	87-010-498-040	CAP,E 10-16 M 5L SRE	a
MAIN		O C	0419	87-010-498-040	CAP,E 10-16 M 5L SRE	a
MAIN		O C	0420	87-010-498-040	CAP,E 10-16 M 5L SRE	a
MAIN		O C	0421	87-010-759-080	C-CAP,U 0.1-25 Z F	a
MAIN		O C	0422	87-010-555-080	CAP,E 100-10 M 5L MA	a
MAIN		O C	0423	87-010-759-080	C-CAP,U 0.1-25 Z F	a
MAIN		O C	0424	87-010-498-040	CAP,E 10-16 M 5L SRE	a
MAIN		O C	0427	87-010-378-040	CAP,E 10-16 M 11L SME	a
MAIN		O C	0428	87-010-378-040	CAP,E 10-16 M 11L SME	a
MAIN		O C	0431	87-012-270-080	C-CAP,U 470P-50 K B	a
MAIN		O C	0432	87-012-270-080	C-CAP,U 470P-50 K B	a
MAIN		O C	0433	87-012-278-080	C-CAP,U 2200P-50 K B	a
MAIN		O C	0441	87-010-553-040	CAP,E 47-16 M 5L SRE	a
MAIN		O C	0501	87-012-271-080	C-CAP,U 560P-50 K B	a
MAIN		O C	0502	87-012-271-080	C-CAP,U 560P-50 K B	a
MAIN		O C	0503	87-012-271-080	C-CAP,U 560P-50 K B	a
MAIN		O C	0504	87-012-271-080	C-CAP,U 560P-50 K B	a
MAIN		O C	0505	87-A11-729-080	C-CAP,S 0.47-25 Z F	X a
						CDC-Z127
						YUSF
MAIN		O C	0506	87-A11-729-080	C-CAP,S 0.47-25 Z F	X a
MAIN		O C	0507	87-A11-729-080	C-CAP,S 0.47-25 Z F	X a
MAIN		O C	0508	87-A11-729-080	C-CAP,S 0.47-25 Z F	X a
MAIN		O C	0509	87-010-380-040	CAP,E 47-16 M 11L SME	a
MAIN		O C	0510	87-010-805-080	C-CAP,S 1-16 Z F	a
MAIN		O C	0511	8A-KC7-623-000	CAP,E 2200-16 125 BT	a
MAIN		O C	0512	87-A12-317-080	C-CAP,U 0.1-50 Z F	a
MAIN		O C	0513	87-A12-317-080	C-CAP,U 0.1-50 Z F	a
MAIN		O C	0515	87-010-498-040	CAP,E 10-16 M 5L SRE	a
MAIN		O C	0516	87-012-274-080	C-CAP,U 1000P-50 K B	a
MAIN		O C	0521	87-A12-317-080	C-CAP,U 0.1-50 Z F	a
MAIN		O C	0522	87-A12-317-080	C-CAP,U 0.1-50 Z F	a
MAIN		O C	0523	87-A12-317-080	C-CAP,U 0.1-50 Z F	a
MAIN		O C	0524	87-A12-317-080	C-CAP,U 0.1-50 Z F	a
MAIN		O C	0551	87-A12-317-080	C-CAP,U 0.1-50 Z F	a
MAIN		O C	0711	87-010-494-040	CAP,E 1-50 M 5L SRE	a
MAIN		O C	0712	87-010-494-040	CAP,E 1-50 M 5L SRE	a
MAIN		O C	0731	87-010-401-040	CAP,E 1-50 M 11L SME	a
MAIN		O C	0732	87-010-401-040	CAP,E 1-50 M 11L SME	a
MAIN		O C	0801	87-012-278-080	C-CAP,U 2200P-50 K B	a
						CDC-Z127
						YUSF
MAIN		O C	0804	87-012-278-080	C-CAP,U 2200P-50 K B	a
MAIN		O C	0811	87-010-787-080	C-CAP,U 0.022-25 K B	a
MAIN		O C	0812	87-010-378-040	CAP,E 10-16 M 11L SME	a
MAIN		O C	0813	87-010-498-040	CAP,E 10-16 M 5L SRE	a
MAIN		O C	0814	87-010-787-080	C-CAP,U 0.022-25 K B	a
MAIN		O C	0821	87-010-787-080	C-CAP,U 0.022-25 K B	a
MAIN		O C	0822	87-010-380-040	CAP,E 47-16 M 11L SME	a
MAIN		O C	0823	87-A12-317-080	C-CAP,U 0.1-50 Z F	a
MAIN		O C	0831	87-A12-317-080	C-CAP,U 0.1-50 Z F	a
MAIN		O C	0832	87-A12-317-080	C-CAP,U 0.1-50 Z F	a
MAIN		O C	0834	87-010-380-040	CAP,E 47-16 M 11L SME	a
MAIN		O C	0901	87-012-179-080	C-CAP,U 20P-50 J CH	a
MAIN		O C	0902	87-012-179-080	C-CAP,U 20P-50 J CH	a
MAIN		O C	0903	87-010-555-080	CAP,E 100-10 M 5L MA	a
MAIN		O C	0904	87-016-039-090	CAP,DL 0.022F-5.5 Z 70 FM	a
MAIN		O C	0906	87-010-759-080	C-CAP,U 0.1-25 Z F	a
MAIN		O C	0907	87-010-497-040	CAP,E 4.7-35 M 5L SRE	a
MAIN		O C	0911	87-012-195-080	C-CAP,U 100P-50 J CH	a
MAIN		O C	0912	87-012-195-080	C-CAP,U 100P-50 J CH	a
MAIN		O C	0913	87-012-271-080	C-CAP,U 560P-50 K B	a
						CDC-Z127
						YUSF
MAIN		O C	0915	87-012-195-080	C-CAP,U 100P-50 J CH	a
MAIN		O C	0916	87-012-195-080	C-CAP,U 100P-50 J CH	a
MAIN		O C	0917	87-012-195-080	C-CAP,U 100P-50 J CH	a
MAIN		O C	0918	87-012-195-080	C-CAP,U 100P-50 J CH	a
MAIN		O C	0919	87-012-195-080	C-CAP,U 100P-50 J CH	a
MAIN		O C	0920	87-012-195-080	C-CAP,U 100P-50 J CH	a
MAIN		O C	0941	87-010-759-080	C-CAP,U 0.1-25 Z F	a
MAIN		O C	0942	87-010-759-080	C-CAP,U 0.1-25 Z F	a
MAIN		O	CON0701	87-A61-219-010	CONN,20P H 52089-2020	a
MAIN		O	CON0801	8Z-KT1-624-010	CONN,16P SOC017	a
MAIN		S D	0101	87-A40-250-040	C-DIODE,DAN217	a
MAIN		X D	0401	88-121-101-080	RES,100-1/8W J	a
MAIN		S D	0441	87-020-331-040	C-DIODE,DAN202K	a
MAIN		S D	0501	87-001-783-080	DIODE,1N4002	a
MAIN		S D	0502	87-001-783-080	DIODE,1N4002	a
MAIN		S D	0503	87-001-783-080	DIODE,1N4002	a
MAIN		S D	0504	87-001-783-080	DIODE,1N4002	a
MAIN		S D	0505	87-001-783-080	DIODE,1N4002	a
MAIN		S D	0506	87-001-783-080	DIODE,1N4002	a
MAIN		S D	0507	87-001-783-080	DIODE,1N4002	a

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UNIT-NAME	! C	REF-NO	PARTS-NO	PARTS-NAME	SUFFIX&MODEL
					CDC-Z127
					YUSF
MAIN		S D	0508 87-001-783-080	DIODE,1N4002	a
MAIN		S D	0509 87-020-465-080	DIODE,1SS133	a
MAIN		S D	0510 87-070-334-080	ZENER,MTZJ10B	a
MAIN		S D	0591 87-A40-337-080	ZENER,MTZJ6.8B	a
MAIN		S D	0811 87-001-783-080	DIODE,1N4002	a
MAIN		S D	0812 87-001-783-080	DIODE,1N4002	a
MAIN		S D	0813 87-017-932-080	ZENER,MTZJ6.2B	a
MAIN		S D	0821 87-070-334-080	ZENER,MTZJ10B	a
MAIN		S D	0831 87-070-335-080	ZENER,MTZJ8.2B	a
MAIN		S D	0881 87-A40-798-010	DIODE,1N5402 (3A/200V)	a
MAIN		S D	0901 87-020-330-040	C-DIODE,DAP202K	a
MAIN		S D	0902 87-020-331-040	C-DIODE,DAN202K	a
MAIN		S D	0903 87-020-465-080	DIODE,1SS133	a
MAIN		S D	0904 87-070-136-080	ZENER,MTZJ5.1B	a
MAIN		X D	0906 88-100-000-010	PLATING-JW, 0.58 SN95	a
MAIN		S D	0914 87-020-465-080	DIODE,1SS133	a
MAIN		S D	0941 87-070-136-080	ZENER,MTZJ5.1B	a
MAIN		! S F	0801 8B-KC1-621-010	FUSE,15A 32V	a
MAIN		O	FFC0701 88-KC4-641-010	FF-CABLE, 20P 1.0 90MM	a
MAIN		S IC	0401 8Z-KT1-622-010	C-IC,LC75374E	a
					CDC-Z127
					YUSF
MAIN		S IC	0501 87-A22-157-010	IC,LA4743J	a
MAIN		S IC	0901 8C-KCG-641-030	C-IC,LC72358N-9A70	a
MAIN		S IC	0941 88-KT1-606-080	IC,PST994D	a
MAIN		O J	0101 8Z-KT1-614-010	ANT,AW-002	a
MAIN		O J	0401 87-A61-225-110	JACK,PIN 2P XR-401	a
MAIN		X JR	0001 88-129-000-080	C-JUMPER, 3216	a
MAIN		X JR	0002 88-129-000-080	C-JUMPER, 3216	a
MAIN		X JR	0003 88-129-000-080	C-JUMPER, 3216	a
MAIN		X JR	0004 88-129-000-080	C-JUMPER, 3216	a
MAIN		X JR	0005 88-129-000-080	C-JUMPER, 3216	a
MAIN		X JR	0006 88-129-000-080	C-JUMPER, 3216	a
MAIN		X JR	0007 88-118-000-080	C-JUMPER,S	a
MAIN		X JR	0008 88-118-000-080	C-JUMPER,S	a
MAIN		X JR	0009 88-118-000-080	C-JUMPER,S	a
MAIN		X JR	0010 88-118-000-080	C-JUMPER,S	a
MAIN		X JR	0011 88-118-000-080	C-JUMPER,S	a
MAIN		X JR	0012 88-129-000-080	C-JUMPER, 3216	a
MAIN		X JR	0013 88-118-000-080	C-JUMPER,S	a
MAIN		X JR	0014 88-118-000-080	C-JUMPER,S	a
MAIN		X JR	0015 88-118-000-080	C-JUMPER,S	a
					CDC-Z127
					YUSF
MAIN		X JR	0016 88-118-000-080	C-JUMPER,S	a
MAIN		X JR	0017 88-118-000-080	C-JUMPER,S	a
MAIN		X JR	0018 88-129-000-080	C-JUMPER, 3216	a
MAIN		X JR	0023 88-129-000-080	C-JUMPER, 3216	a
MAIN		X JW	0001 88-100-000-010	PLATING-JW, 0.58 SN95	a
MAIN		X JW	0002 88-100-000-010	PLATING-JW, 0.58 SN95	a
MAIN		X JW	0003 88-100-000-010	PLATING-JW, 0.58 SN95	a
MAIN		X JW	0004 88-100-000-010	PLATING-JW, 0.58 SN95	a
MAIN		X JW	0005 88-100-000-010	PLATING-JW, 0.58 SN95	a
MAIN		X JW	0006 88-100-000-010	PLATING-JW, 0.58 SN95	a
MAIN		X JW	0007 88-100-000-010	PLATING-JW, 0.58 SN95	a
MAIN		X JW	0009 88-100-000-010	PLATING-JW, 0.58 SN95	a
MAIN		X JW	0010 88-100-000-010	PLATING-JW, 0.58 SN95	a
MAIN		X JW	0011 88-100-000-010	PLATING-JW, 0.58 SN95	a
MAIN		X JW	0012 88-100-000-010	PLATING-JW, 0.58 SN95	a
MAIN		X JW	0013 88-100-000-010	PLATING-JW, 0.58 SN95	a
MAIN		X JW	0015 88-100-000-010	PLATING-JW, 0.58 SN95	a
MAIN		X JW	0016 88-100-000-010	PLATING-JW, 0.58 SN95	a
MAIN		X JW	0017 88-100-000-010	PLATING-JW, 0.58 SN95	a
MAIN		X JW	0019 88-100-000-010	PLATING-JW, 0.58 SN95	a
					CDC-Z127
					YUSF
MAIN		X JW	0020 88-100-000-010	PLATING-JW, 0.58 SN95	a
MAIN		X JW	0024 88-100-000-010	PLATING-JW, 0.58 SN95	a
MAIN		X JW	0025 88-100-000-010	PLATING-JW, 0.58 SN95	a
MAIN		X JW	0028 88-100-000-010	PLATING-JW, 0.58 SN95	a
MAIN		X JW	0029 88-100-000-010	PLATING-JW, 0.58 SN95	a
MAIN		X JW	0030 88-100-000-010	PLATING-JW, 0.58 SN95	a
MAIN		X JW	0031 88-100-000-010	PLATING-JW, 0.58 SN95	a
MAIN		X JW	0032 88-100-000-010	PLATING-JW, 0.58 SN95	a
MAIN		X JW	0033 88-100-000-010	PLATING-JW, 0.58 SN95	a
MAIN		X JW	0034 88-100-000-010	PLATING-JW, 0.58 SN95	a
MAIN		X JW	0035 88-100-000-010	PLATING-JW, 0.58 SN95	a
MAIN		X JW	0036 88-100-000-010	PLATING-JW, 0.58 SN95	a
MAIN		X JW	0037 88-100-000-010	PLATING-JW, 0.58 SN95	a
MAIN		X JW	0038 88-100-000-010	PLATING-JW, 0.58 SN95	a
MAIN		X JW	0039 88-100-000-010	PLATING-JW, 0.58 SN95	a
MAIN		X JW	0040 88-100-000-010	PLATING-JW, 0.58 SN95	a
MAIN		X JW	0041 88-100-000-010	PLATING-JW, 0.58 SN95	a
MAIN		X JW	0042 88-100-000-010	PLATING-JW, 0.58 SN95	a
MAIN		X JW	0043 88-100-000-010	PLATING-JW, 0.58 SN95	a
MAIN		X JW	0045 88-100-000-010	PLATING-JW, 0.58 SN95	a

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UNIT-NAME	! C	REF-NO	PARTS-NO	PARTS-NAME	SUFFIX&MODEL
					CDC-Z127
					YUSF
MAIN	X	JW 0046	88-100-000-010	PLATING-JW, 0.58 SN95	a
MAIN	X	JW 0047	88-100-000-010	PLATING-JW, 0.58 SN95	a
MAIN	X	JW 0048	88-100-000-010	PLATING-JW, 0.58 SN95	a
MAIN	X	JW 0049	88-100-000-010	PLATING-JW, 0.58 SN95	a
MAIN	X	JW 0050	88-100-000-010	PLATING-JW, 0.58 SN95	a
MAIN	X	JW 0051	88-100-000-010	PLATING-JW, 0.58 SN95	a
MAIN	X	JW 0052	88-100-000-010	PLATING-JW, 0.58 SN95	a
MAIN	X	JW 0053	88-100-000-010	PLATING-JW, 0.58 SN95	a
MAIN	X	JW 0054	88-100-000-010	PLATING-JW, 0.58 SN95	a
MAIN	X	JW 0055	88-100-000-010	PLATING-JW, 0.58 SN95	a
MAIN	X	JW 0057	88-100-000-010	PLATING-JW, 0.58 SN95	a
MAIN	X	JW 0058	88-100-000-010	PLATING-JW, 0.58 SN95	a
MAIN	X	JW 0059	88-100-000-010	PLATING-JW, 0.58 SN95	a
MAIN	X	JW 0060	88-100-000-010	PLATING-JW, 0.58 SN95	a
MAIN	X	JW 0062	88-100-000-010	PLATING-JW, 0.58 SN95	a
MAIN	X	JW 0064	88-100-000-010	PLATING-JW, 0.58 SN95	a
MAIN	X	JW 0065	88-100-000-010	PLATING-JW, 0.58 SN95	a
MAIN	X	JW 0066	88-100-000-010	PLATING-JW, 0.58 SN95	a
MAIN	X	JW 0067	88-100-000-010	PLATING-JW, 0.58 SN95	a
MAIN	X	JW 0069	88-100-000-010	PLATING-JW, 0.58 SN95	a
					CDC-Z127
					YUSF
MAIN	X	JW 0070	88-100-000-010	PLATING-JW, 0.58 SN95	a
MAIN	X	JW 0071	88-100-000-010	PLATING-JW, 0.58 SN95	a
MAIN	X	JW 0072	88-100-000-010	PLATING-JW, 0.58 SN95	a
MAIN	X	JW 0073	88-100-000-010	PLATING-JW, 0.58 SN95	a
MAIN	X	JW 0075	88-100-000-010	PLATING-JW, 0.58 SN95	a
MAIN	X	JW 0076	88-100-000-010	PLATING-JW, 0.58 SN95	a
MAIN	X	JW 0078	88-100-000-010	PLATING-JW, 0.58 SN95	a
MAIN	X	JW 0079	88-100-000-010	PLATING-JW, 0.58 SN95	a
MAIN	X	JW 0081	88-100-000-010	PLATING-JW, 0.58 SN95	a
MAIN	X	JW 0082	88-100-000-010	PLATING-JW, 0.58 SN95	a
MAIN	X	JW 0083	88-100-000-010	PLATING-JW, 0.58 SN95	a
MAIN	X	JW 0087	88-100-000-010	PLATING-JW, 0.58 SN95	a
MAIN	X	JW 0088	88-100-000-010	PLATING-JW, 0.58 SN95	a
MAIN	X	JW 0089	88-100-000-010	PLATING-JW, 0.58 SN95	a
MAIN	X	JW 0090	88-100-000-010	PLATING-JW, 0.58 SN95	a
MAIN	X	JW 0091	88-100-000-010	PLATING-JW, 0.58 SN95	a
MAIN	X	JW 0092	88-100-000-010	PLATING-JW, 0.58 SN95	a
MAIN	X	JW 0093	88-100-000-010	PLATING-JW, 0.58 SN95	a
MAIN	X	JW 0094	88-100-000-010	PLATING-JW, 0.58 SN95	a
MAIN	X	JW 0096	88-100-000-010	PLATING-JW, 0.58 SN95	a
					CDC-Z127
					YUSF
MAIN	X	JW 0101	88-100-000-010	PLATING-JW, 0.58 SN95	a
MAIN	X	JW 0102	88-100-000-010	PLATING-JW, 0.58 SN95	a
MAIN	X	JW 0103	88-100-000-010	PLATING-JW, 0.58 SN95	a
MAIN	X	JW 0104	88-100-000-010	PLATING-JW, 0.58 SN95	a
MAIN	X	JW 0105	88-100-000-010	PLATING-JW, 0.58 SN95	a
MAIN	X	JW 0106	88-100-000-010	PLATING-JW, 0.58 SN95	a
MAIN	X	JW 0107	88-100-000-010	PLATING-JW, 0.58 SN95	a
MAIN	X	JW 0108	88-100-000-010	PLATING-JW, 0.58 SN95	a
MAIN	X	JW 0109	88-100-000-010	PLATING-JW, 0.58 SN95	a
MAIN	X	JW 0110	88-100-000-010	PLATING-JW, 0.58 SN95	a
MAIN	X	JW 0111	88-100-000-010	PLATING-JW, 0.58 SN95	a
MAIN	X	JW 0112	88-100-000-010	PLATING-JW, 0.58 SN95	a
MAIN	X	JW 0114	88-100-000-010	PLATING-JW, 0.58 SN95	a
MAIN	X	JW 0115	88-100-000-010	PLATING-JW, 0.58 SN95	a
MAIN	X	JW 0117	88-100-000-010	PLATING-JW, 0.58 SN95	a
MAIN	X	JW 0118	88-100-000-010	PLATING-JW, 0.58 SN95	a
MAIN	X	JW 0119	88-100-000-010	PLATING-JW, 0.58 SN95	a
MAIN	X	JW 0120	88-100-000-010	PLATING-JW, 0.58 SN95	a
MAIN	O	L 0101	87-003-143-080	COIL,4.7UH K LAL02	a
MAIN	O	L 0102	8Z-KT1-619-010	COIL,68MH K7-D	a
					CDC-Z127
					YUSF
MAIN	O	L 0401	87-003-143-080	COIL,4.7UH K LAL02	a
MAIN	O	L 0731	87-003-143-080	COIL,4.7UH K LAL02	a
MAIN	O	L 0801	8B-KCF-615-010	FLTR,AMORPHOUS -CHOKE	a
MAIN	O	L 0901	87-003-149-080	COIL,47UH J LAL02	a
MAIN	S	Q 0101	87-A30-287-040	C-TR,DTC114TKA	a
MAIN	S	Q 0102	87-A30-289-040	C-TR,2SA1037AK(Q)	a
MAIN	S	Q 0103	89-324-122-040	C-TR,2SC2412KR	a
MAIN	S	Q 0104	87-A30-288-040	C-TR,DTC114YKA	a
MAIN	S	Q 0105	89-324-122-040	C-TR,2SC2412KR	a
MAIN	S	Q 0106	89-324-122-040	C-TR,2SC2412KR	a
MAIN	S	Q 0401	87-A30-287-040	C-TR,DTC114TKA	a
MAIN	S	Q 0402	87-A30-287-040	C-TR,DTC114TKA	a
MAIN	S	Q 0403	87-A30-287-040	C-TR,DTC114TKA	a
MAIN	S	Q 0404	87-A30-287-040	C-TR,DTC114TKA	a
MAIN	S	Q 0441	87-A30-287-040	C-TR,DTC114TKA	a
MAIN	S	Q 0442	87-A30-282-040	C-TR,DTA114TKA	a
MAIN	S	Q 0591	87-A30-282-040	C-TR,DTA114TKA	a
MAIN	S	Q 0592	87-A30-282-040	C-TR,DTA114TKA	a
MAIN	S	Q 0801	89-213-750-010	TR,2SB1375	a
MAIN	S	Q 0802	87-A30-287-040	C-TR,DTC114TKA	a

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UNIT-NAME	! C	REF-NO	PARTS-NO	PARTS-NAME	SUFFIX&MODEL
					CDC-Z127
					YUSF
MAIN	S Q	0811	87-A30-301-080	TR,2SD1862	a
MAIN	S Q	0821	89-420-120-010	TR,2SD2012	a
MAIN	S Q	0831	89-420-120-010	TR,2SD2012	a
MAIN	S Q	0833	87-A30-427-040	C-TR,DTC114EKA	a
MAIN	X R	0101	88-108-105-080	C-RES,U 1M-1/16W J	a
MAIN	X R	0102	88-108-102-080	C-RES,U 1K-1/16W J	a
MAIN	X R	0103	88-108-221-080	C-RES,U 220-1/16W J	a
MAIN	X R	0104	88-118-100-080	C-RES,S 10-1/10W J	a
MAIN	X R	0105	88-121-473-080	RES,47K-1/8W J	a
MAIN	X R	0106	88-108-333-080	C-RES,U 33K-1/16W J	a
MAIN	X R	0107	88-108-473-080	C-RES,U 47K-1/16W J	a
MAIN	X R	0108	88-108-103-080	C-RES,U 10K-1/16W J	a
MAIN	X R	0109	88-108-222-080	C-RES,U 2.2K-1/16W J	a
MAIN	X R	0110	88-108-330-080	C-RES,U 33-1/16W J	a
MAIN	X R	0111	88-108-100-080	C-RES,U 10-1/16W J	a
MAIN	X R	0112	88-108-821-080	C-RES,U 820-1/16W J	a
MAIN	X R	0113	88-108-102-080	C-RES,U 1K-1/16W J	a
MAIN	X R	0114	88-108-103-080	C-RES,U 10K-1/16W J	a
MAIN	X R	0115	88-108-223-080	C-RES,U 22K-1/16W J	a
MAIN	X R	0116	88-108-102-080	C-RES,U 1K-1/16W J	a
					CDC-Z127
					YUSF
MAIN	X R	0117	88-108-334-080	C-RES,U 330K-1/16W J	a
MAIN	X R	0121	88-121-393-080	RES,39K-1/8W J	a
MAIN	X R	0122	88-121-393-080	RES,39K-1/8W J	a
MAIN	X R	0133	88-108-000-080	C-JUMPER,U	a
MAIN	X R	0140	88-121-102-080	RES,1K-1/8W J	a
MAIN	X R	0401	88-108-332-080	C-RES,U 3.3K-1/16W J	a
MAIN	X R	0402	88-108-332-080	C-RES,U 3.3K-1/16W J	a
MAIN	X R	0403	88-108-332-080	C-RES,U 3.3K-1/16W J	a
MAIN	X R	0404	88-108-332-080	C-RES,U 3.3K-1/16W J	a
MAIN	X R	0405	88-121-102-080	RES,1K-1/8W J	a
MAIN	X R	0406	88-121-102-080	RES,1K-1/8W J	a
MAIN	X R	0407	88-121-102-080	RES,1K-1/8W J	a
MAIN	X R	0408	88-121-102-080	RES,1K-1/8W J	a
MAIN	X R	0415	88-108-102-080	C-RES,U 1K-1/16W J	a
MAIN	X R	0416	88-108-102-080	C-RES,U 1K-1/16W J	a
MAIN	X R	0417	88-108-102-080	C-RES,U 1K-1/16W J	a
MAIN	X R	0418	88-108-102-080	C-RES,U 1K-1/16W J	a
MAIN	X R	0419	88-108-104-080	C-RES,U 100K-1/16W J	a
MAIN	X R	0420	88-108-104-080	C-RES,U 100K-1/16W J	a
MAIN	X R	0421	88-108-104-080	C-RES,U 100K-1/16W J	a
					CDC-Z127
					YUSF
MAIN	X R	0422	88-108-104-080	C-RES,U 100K-1/16W J	a
MAIN	X R	0423	88-121-102-080	RES,1K-1/8W J	a
MAIN	X R	0424	88-108-272-080	C-RES,U 2.7K-1/16W J	a
MAIN	X R	0441	88-108-222-080	C-RES,U 2.2K-1/16W J	a
MAIN	X R	0442	88-108-103-080	C-RES,U 10K-1/16W J	a
MAIN	X R	0458	88-108-104-080	C-RES,U 100K-1/16W J	a
MAIN	X R	0501	88-108-123-080	C-RES,U 12K-1/16W J	a
MAIN	X R	0502	88-108-123-080	C-RES,U 12K-1/16W J	a
MAIN	X R	0503	88-108-123-080	C-RES,U 12K-1/16W J	a
MAIN	X R	0504	88-108-123-080	C-RES,U 12K-1/16W J	a
MAIN	X R	0505	88-108-183-080	C-RES,U 18K-1/16W J	a
MAIN	X R	0506	88-108-183-080	C-RES,U 18K-1/16W J	a
MAIN	X R	0507	88-108-183-080	C-RES,U 18K-1/16W J	a
MAIN	X R	0508	88-108-183-080	C-RES,U 18K-1/16W J	a
MAIN	X R	0509	88-121-103-080	RES,10K-1/8W J	a
MAIN	X R	0551	88-108-100-080	C-RES,U 10-1/16W J	a
MAIN	X R	0592	88-108-473-080	C-RES,U 47K-1/16W J	a
MAIN	X R	0701	88-121-102-080	RES,1K-1/8W J	a
MAIN	X R	0702	88-108-102-080	C-RES,U 1K-1/16W J	a
MAIN	X R	0704	88-121-100-080	RES,10-1/8W J	a
					CDC-Z127
					YUSF
MAIN	X R	0705	88-121-102-080	RES,1K-1/8W J	a
MAIN	X R	0706	88-121-102-080	RES,1K-1/8W J	a
MAIN	X R	0707	88-121-102-080	RES,1K-1/8W J	a
MAIN	X R	0708	88-108-102-080	C-RES,U 1K-1/16W J	a
MAIN	X R	0709	88-108-102-080	C-RES,U 1K-1/16W J	a
MAIN	X R	0710	88-108-102-080	C-RES,U 1K-1/16W J	a
MAIN	X R	0711	88-108-102-080	C-RES,U 1K-1/16W J	a
MAIN	X R	0712	88-108-102-080	C-RES,U 1K-1/16W J	a
MAIN	X R	0713	88-108-102-080	C-RES,U 1K-1/16W J	a
MAIN	X R	0714	88-108-102-080	C-RES,U 1K-1/16W J	a
MAIN	X R	0715	88-108-102-080	C-RES,U 1K-1/16W J	a
MAIN	X R	0716	88-108-102-080	C-RES,U 1K-1/16W J	a
MAIN	X R	0717	88-108-102-080	C-RES,U 1K-1/16W J	a
MAIN	X R	0718	88-121-102-080	RES,1K-1/8W J	a
MAIN	X R	0719	88-108-102-080	C-RES,U 1K-1/16W J	a
MAIN	X R	0720	88-121-102-080	RES,1K-1/8W J	a
MAIN	X R	0721	88-121-102-080	RES,1K-1/8W J	a
MAIN	X R	0731	88-108-472-080	C-RES,U 4.7K-1/16W J	a
MAIN	X R	0732	88-108-472-080	C-RES,U 4.7K-1/16W J	a
MAIN	X R	0733	88-108-562-080	C-RES,U 5.6K-1/16W J	a

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UNIT-NAME	! C	REF-NO	PARTS-NO	PARTS-NAME	SUFFIX&MODEL
					CDC-Z127
					YUSF
MAIN	X R	0734	88-108-562-080	C-RES,U 5.6K-1/16W J	a
MAIN	X R	0801	88-108-103-080	C-RES,U 10K-1/16W J	a
MAIN	O R	0802	88-148-102-080	C-RES, 1K-1/2W J	a
MAIN	X R	0803	88-148-229-080	C-RES, 2.2-1/2W J	a
MAIN	X R	0811	88-121-101-080	RES,100-1/8W J	a
MAIN	X R	0812	88-121-472-080	RES,4.7K-1/8W J	a
MAIN	X R	0813	88-121-101-080	RES,100-1/8W J	a
MAIN	X R	0821	88-118-391-080	C-RES,S 390-1/10W J	a
MAIN	X R	0822	88-118-391-080	C-RES,S 390-1/10W J	a
MAIN	X R	0831	88-118-561-080	C-RES,S 560-1/10W J	a
MAIN	X R	0832	88-118-561-080	C-RES,S 560-1/10W J	a
MAIN	X R	0833	88-108-103-080	C-RES,U 10K-1/16W J	a
MAIN	X R	0834	88-118-102-080	C-RES,S 1K-1/10W J	a
MAIN	X R	0835	88-118-561-080	C-RES,S 560-1/10W J	a
MAIN	X R	0902	88-108-823-080	C-RES,U 82K-1/16W J	a
MAIN	X R	0903	88-108-473-080	C-RES,U 47K-1/16W J	a
MAIN	X R	0904	88-121-474-080	RES,470K-1/8W J	a
MAIN	X R	0905	88-121-104-080	RES,100K-1/8W J	a
MAIN	X R	0906	88-108-222-080	C-RES,U 2.2K-1/16W J	a
MAIN	X R	0908	88-108-224-080	C-RES,U 220K-1/16W J	a
					CDC-Z127
					YUSF
MAIN	X R	0909	88-108-104-080	C-RES,U 100K-1/16W J	a
MAIN	X R	0910	88-108-104-080	C-RES,U 100K-1/16W J	a
MAIN	X R	0914	88-108-104-080	C-RES,U 100K-1/16W J	a
MAIN	X R	0915	88-108-104-080	C-RES,U 100K-1/16W J	a
MAIN	X R	0916	88-108-104-080	C-RES,U 100K-1/16W J	a
MAIN	X R	0917	88-121-104-080	RES,100K-1/8W J	a
MAIN	X R	0918	88-121-104-080	RES,100K-1/8W J	a
MAIN	X R	0919	88-121-104-080	RES,100K-1/8W J	a
MAIN	X R	0920	88-121-104-080	RES,100K-1/8W J	a
MAIN	X R	0921	88-121-102-080	RES,1K-1/8W J	a
MAIN	X R	0922	88-121-104-080	RES,100K-1/8W J	a
MAIN	X R	0923	88-121-104-080	RES,100K-1/8W J	a
MAIN	X R	0924	88-121-104-080	RES,100K-1/8W J	a
MAIN	X R	0925	88-121-104-080	RES,100K-1/8W J	a
MAIN	X R	0926	88-121-102-080	RES,1K-1/8W J	a
MAIN	X R	0927	88-108-332-080	C-RES,U 3.3K-1/16W J	a
MAIN	X R	0928	88-108-102-080	C-RES,U 1K-1/16W J	a
MAIN	X R	0929	88-121-102-080	RES,1K-1/8W J	a
MAIN	X R	0930	88-121-104-080	RES,100K-1/8W J	a
MAIN	X R	0933	88-108-102-080	C-RES,U 1K-1/16W J	a
					CDC-Z127
					YUSF
MAIN	X R	0934	88-121-102-080	RES,1K-1/8W J	a
MAIN	X R	0935	88-121-102-080	RES,1K-1/8W J	a
MAIN	X R	0936	88-108-102-080	C-RES,U 1K-1/16W J	a
MAIN	X R	0937	88-108-102-080	C-RES,U 1K-1/16W J	a
MAIN	X R	0939	88-121-104-080	RES,100K-1/8W J	a
MAIN	X R	0941	88-108-392-080	C-RES,U 3.9K-1/16W J	a
MAIN	X R	0942	88-108-103-080	C-RES,U 10K-1/16W J	a
MAIN	X R	0943	88-108-472-080	C-RES,U 4.7K-1/16W J	a
MAIN	O TU	0101	8C-KCG-621-010	TU UNIT, FAE347-A30	a
MAIN	O X	0901	87-A70-362-080	VIB,XTAL 4.5MHZ HC-49/U-S	a

ELECTRICAL PARTS LIST (CZA-4)

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UNIT-NAME	! C	REF-NO	PARTS-NO	PARTS-NAME	SUFFIX&MODEL
CZA-4 SNNYF					
CD	O C	0201	87-010-553-040	CAP,E 47-16 M 5L SRE	a
CD	O C	0202	87-010-553-040	CAP,E 47-16 M 5L SRE	a
CD	O C	0203	87-012-274-080	C-CAP,U 1000P-50 K B	a
CD	O C	0204	87-A10-260-080	C-CAP,U 0.1-16 K B	a
CD	O C	0205	87-A10-353-080	C-CAP,U 0.22-10 K B	a
CD	O C	0206	87-010-492-040	CAP,E 0.33-50 M 5L SRE	a
CD	O C	0207	87-010-956-080	C-CAP,S 0.068-25 K B GRM	a
CD	O C	0208	87-012-272-080	C-CAP,U 680P-50 K B GRM	a
CD	O C	0209	87-A10-504-080	C-CAP,U 0.047-16 K B	a
CD	O C	0210	87-A10-260-080	C-CAP,U 0.1-16 K B	a
CD	O C	0211	87-010-498-040	CAP,E 10-16 M 5L SRE	a
CD	O C	0212	87-012-276-080	C-CAP,U 1500P-50 K B	a
CD	O C	0213	87-A10-504-080	C-CAP,U 0.047-16 K B	a
CD	O C	0214	87-A10-260-080	C-CAP,U 0.1-16 K B	a
CD	O C	0215	87-012-278-080	C-CAP,U 2200P-50 K B	a
CD	O C	0216	87-A10-353-080	C-CAP,U 0.22-10 K B	a
CD	O C	0217	87-A10-260-080	C-CAP,U 0.1-16 K B	a
CD	O C	0218	87-010-787-080	C-CAP,U 0.022-25 K B	a
CD	O C	0219	87-012-268-080	C-CAP,U 330P-50 K B GRM	a
CD	O C	0220	87-012-280-080	C-CAP,U 3300P-50 K B	a
CZA-4 SNNYF					
CD	O C	0221	87-012-195-080	C-CAP,U 100P-50 J CH	a
CD	O C	0222	87-010-492-040	CAP,E 0.33-50 M 5L SRE	a
CD	O C	0223	87-010-067-040	CAP,E 0.1-50 M 5L SRE	a
CD	O C	0224	87-010-553-040	CAP,E 47-16 M 5L SRE	a
CD	O C	0225	87-012-280-080	C-CAP,U 3300P-50 K B	a
CD	O C	0226	87-010-497-040	CAP,E 4.7-35 M 5L SRE	a
CD	O C	0227	87-010-555-040	CAP,E 100-10 M 5L SRE	a
CD	O C	0228	87-A10-260-080	C-CAP,U 0.1-16 K B	a
CD	O C	0229	87-010-498-040	CAP,E 10-16 M 5L SRE	a
CD	O C	0230	87-A10-260-080	C-CAP,U 0.1-16 K B	a
CD	O C	0231	87-010-555-040	CAP,E 100-10 M 5L SRE	a
CD	O C	0232	87-A10-260-080	C-CAP,U 0.1-16 K B	a
CD	O C	0233	87-010-555-040	CAP,E 100-10 M 5L SRE	a
CD	O C	0234	87-010-828-080	C-CAP,U 0.033-16 Z F	a
CD	O C	0235	87-A10-504-080	C-CAP,U 0.047-16 K B	a
CD	O C	0236	87-010-067-040	CAP,E 0.1-50 M 5L SRE	a
CD	O C	0237	87-010-553-040	CAP,E 47-16 M 5L SRE	a
CD	O C	0238	87-012-286-080	C-CAP,U 0.01-25 K B	a
CD	O C	0240	87-A10-260-080	C-CAP,U 0.1-16 K B	a
CD	O C	0250	87-A10-260-080	C-CAP,U 0.1-16 K B	a
CZA-4 SNNYF					
CD	O C	0251	87-010-555-040	CAP,E 100-10 M 5L SRE	a
CD	O C	0252	87-A10-260-080	C-CAP,U 0.1-16 K B	a
CD	O C	0253	87-A10-260-080	C-CAP,U 0.1-16 K B	a
CD	O C	0254	87-A10-260-080	C-CAP,U 0.1-16 K B	a
CD	O C	0256	87-012-282-080	C-CAP,U 4700P-50 K B	a
CD	O C	0258	87-012-168-080	C-CAP,U 6P-50 D CH	a
CD	O C	0259	87-012-184-080	C-CAP,U 33P-50 J CH	a
CD	O C	0261	87-012-199-080	C-CAP,U 220P-50 J CH	a
CD	O C	0262	87-A10-260-080	C-CAP,U 0.1-16 K B	a
CD	O C	0263	87-010-555-040	CAP,E 100-10 M 5L SRE	a
CD	O C	0264	87-010-555-040	CAP,E 100-10 M 5L SRE	a
CD	O C	0265	87-A10-260-080	C-CAP,U 0.1-16 K B	a
CD	O C	0266	87-A10-260-080	C-CAP,U 0.1-16 K B	a
CD	O C	0267	87-010-498-040	CAP,E 10-16 M 5L SRE	a
CD	O C	0268	87-010-498-040	CAP,E 10-16 M 5L SRE	a
CD	O C	0269	87-012-276-080	C-CAP,U 1500P-50 K B	a
CD	O C	0270	87-012-276-080	C-CAP,U 1500P-50 K B	a
CD	O C	0280	87-A10-189-040	CAP,E 220-10 M 5L	a
CD	O C	0281	87-010-555-040	CAP,E 100-10 M 5L SRE	a
CD	O C	0282	87-A10-260-080	C-CAP,U 0.1-16 K B	a
CZA-4 SNNYF					
CD	O	CON0201	87-A61-220-080	C-CONN,20P H 52271-2090	a
CD	S IC	0201	87-A20-446-010	C-IC,LA9241ML	a
CD	S IC	0202	87-A21-319-010	C-IC,LC78622NE	a
CD	S IC	0203	87-A22-080-040	C-IC,LA6557H	a
CD	X JR	0101	88-108-000-080	C-JUMPER,U	a
CD	S Q	0201	87-A30-289-040	C-TR,2SA1037AK(Q)	a
CD	S Q	0202	87-A30-435-040	C-TR,DTC144EKA	a
CD	S Q	0203	87-A30-435-040	C-TR,DTC144EKA	a
CD	S Q	0204	87-A30-435-040	C-TR,DTC144EKA	a
CD	S Q	0205	87-A30-435-040	C-TR,DTC144EKA	a
CD	S Q	0206	89-324-122-040	C-TR,2SC2412KR	a
CD	S Q	0207	87-A30-299-080	TR,2SB1326	a
CD	S Q	0208	87-A30-287-040	C-TR,DTC114TKA	a
CD	X R	0201	88-108-100-080	C-RES,U 10-1/16W J	a
CD	X R	0202	88-108-103-080	C-RES,U 10K-1/16W J	a
CD	X R	0203	88-108-183-080	C-RES,U 18K-1/16W J	a
CD	X R	0204	88-108-153-080	C-RES,U 15K-1/16W J	a
CD	X R	0205	88-108-153-080	C-RES,U 15K-1/16W J	a
CD	X R	0206	88-108-183-080	C-RES,U 18K-1/16W J	a
CD	X R	0207	88-108-153-080	C-RES,U 15K-1/16W J	a

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					CZA-4 SNYNF
CD	X R	0208	88-108-153-080	C-RES,U 15K-1/16W J	a
CD	X R	0209	88-108-392-080	C-RES,U 3.9K-1/16W J	a
CD	X R	0210	88-108-392-080	C-RES,U 3.9K-1/16W J	a
CD	X R	0211	88-108-102-080	C-RES,U 1K-1/16W J	a
CD	X R	0212	88-108-102-080	C-RES,U 1K-1/16W J	a
CD	X R	0213	88-108-682-080	C-RES,U 6.8K-1/16W J	a
CD	X R	0214	88-108-682-080	C-RES,U 6.8K-1/16W J	a
CD	X R	0215	88-108-103-080	C-RES,U 10K-1/16W J	a
CD	X R	0216	88-108-103-080	C-RES,U 10K-1/16W J	a
CD	X R	0217	88-108-104-080	C-RES,U 100K-1/16W J	a
CD	X R	0218	88-108-682-080	C-RES,U 6.8K-1/16W J	a
CD	X R	0219	88-108-182-080	C-RES,U 1.8K-1/16W J	a
CD	X R	0220	88-108-683-080	C-RES,U 68K-1/16W J	a
CD	X R	0221	88-108-123-080	C-RES,U 12K-1/16W J	a
CD	X R	0222	88-108-103-080	C-RES,U 10K-1/16W J	a
CD	X R	0223	88-108-154-080	C-RES,U 150K-1/16W J	a
CD	X R	0224	88-108-153-080	C-RES,U 15K-1/16W J	a
CD	X R	0225	88-108-392-080	C-RES,U 3.9K-1/16W J	a
CD	X R	0226	88-108-153-080	C-RES,U 15K-1/16W J	a
CD	X R	0227	88-108-331-080	C-RES,U 330-1/16W J	a
					CZA-4 SNYNF
CD	X R	0228	88-108-224-080	C-RES,U 220K-1/16W J	a
CD	X R	0229	88-108-183-080	C-RES,U 18K-1/16W J	a
CD	X R	0230	88-108-562-080	C-RES,U 5.6K-1/16W J	a
CD	X R	0231	88-108-183-080	C-RES,U 18K-1/16W J	a
CD	X R	0232	88-108-563-080	C-RES,U 56K-1/16W J	a
CD	X R	0233	88-108-152-080	C-RES,U 1.5K-1/16W J	a
CD	X R	0234	88-108-473-080	C-RES,U 47K-1/16W J	a
CD	X R	0235	88-108-124-080	C-RES,U 120K-1/16W J	a
CD	X R	0236	88-108-333-080	C-RES,U 33K-1/16W J	a
CD	X R	0237	88-108-473-080	C-RES,U 47K-1/16W J	a
CD	X R	0238	88-108-473-080	C-RES,U 47K-1/16W J	a
CD	X R	0239	88-108-153-080	C-RES,U 15K-1/16W J	a
CD	X R	0240	88-108-122-080	C-RES,U 1.2K-1/16W J	a
CD	O R	0241	87-022-292-080	C-RES,U 330K-1/16W F	a
CD	O R	0242	87-022-292-080	C-RES,U 330K-1/16W F	a
CD	X R	0243	88-108-563-080	C-RES,U 56K-1/16W J	a
CD	X R	0244	88-108-223-080	C-RES,U 22K-1/16W J	a
CD	X R	0245	88-108-473-080	C-RES,U 47K-1/16W J	a
CD	X R	0246	88-108-100-080	C-RES,U 10-1/16W J	a
CD	X R	0247	88-108-109-080	C-RES,U 1-1/16W J	a
					CZA-4 SNYNF
CD	X R	0248	88-108-184-080	C-RES,U 180K-1/16W J	a
CD	X R	0250	88-108-681-080	C-RES,U 680-1/16W J	a
CD	X R	0251	88-108-333-080	C-RES,U 33K-1/16W J	a
CD	X R	0252	88-108-122-080	C-RES,U 1.2K-1/16W J	a
CD	X R	0253	88-108-333-080	C-RES,U 33K-1/16W J	a
CD	X R	0254	88-108-000-080	C-JUMPER,U	a
CD	X R	0255	88-108-471-080	C-RES,U 470-1/16W J	a
CD	X R	0256	88-108-563-080	C-RES,U 56K-1/16W J	a
CD	X R	0257	88-108-103-080	C-RES,U 10K-1/16W J	a
CD	X R	0258	88-108-822-080	C-RES,U 8.2K-1/16W J	a
CD	X R	0259	88-108-820-080	C-RES,U 82-1/16W J	a
CD	X R	0260	88-108-470-080	C-RES,U 47-1/16W J	a
CD	X R	0261	88-108-222-080	C-RES,U 2.2K-1/16W J	a
CD	X R	0262	88-108-222-080	C-RES,U 2.2K-1/16W J	a
CD	X R	0263	88-108-332-080	C-RES,U 3.3K-1/16W J	a
CD	X R	0264	88-108-332-080	C-RES,U 3.3K-1/16W J	a
CD	X R	0265	88-108-102-080	C-RES,U 1K-1/16W J	a
CD	X R	0266	88-108-109-080	C-RES,U 1-1/16W J	a
CD	X R	0267	88-108-109-080	C-RES,U 1-1/16W J	a
CD	X R	0268	88-108-820-080	C-RES,U 82-1/16W J	a
					CZA-4 SNYNF
CD	X R	0269	88-108-223-080	C-RES,U 22K-1/16W J	a
CD	X R	0270	88-108-333-080	C-RES,U 33K-1/16W J	a
CD	X R	0271	88-108-393-080	C-RES,U 39K-1/16W J	a
CD	X R	0272	88-108-154-080	C-RES,U 150K-1/16W J	a
CD	X R	0273	88-108-000-080	C-JUMPER,U	a
CD	X R	0274	88-108-103-080	C-RES,U 10K-1/16W J	a
CD	X R	0275	88-108-000-080	C-JUMPER,U	a
CD	X R	0276	88-108-000-080	C-JUMPER,U	a
CD	X R	0277	88-108-822-080	C-RES,U 8.2K-1/16W J	a
CD	X R	0278	88-108-561-080	C-RES,U 560-1/16W J	a
CD	X R	0281	88-108-155-080	C-RES,U 1.5M-1/16W J	a
CD	X R	0282	88-108-155-080	C-RES,U 1.5M-1/16W J	a
CD	X R	0283	88-108-154-080	C-RES,U 150K-1/16W J	a
CD	X R	0284	88-108-223-080	C-RES,U 22K-1/16W J	a
CD	X R	0285	88-108-123-080	C-RES,U 12K-1/16W J	a
CD	X R	0286	88-108-154-080	C-RES,U 150K-1/16W J	a
CD	X R	0288	88-108-152-080	C-RES,U 1.5K-1/16W J	a
CD	X R	0291	88-108-101-080	C-RES,U 100-1/16W J	a
CD	X R	0295	88-108-222-080	C-RES,U 2.2K-1/16W J	a
CD	X R	0296	88-108-222-080	C-RES,U 2.2K-1/16W J	a

! = \triangle SAFTY PARTS
 C = Components marked

All components used on this model at the production line are shown in this service manual.
 However, please note that not all components will be available as spare parts for after-sales service.
 Components marked S and O are designated as spare parts for service and will be stocked at the spare parts centers.
 Components marked X and R are not designated as spare parts for after sales service, and will not be stocked at the spare parts centers.

UNIT-NAME	! C	REF-NO	PARTS-NO	PARTS-NAME	SUFFIX&MODEL
					CZA-4
					SNYNF
CD	X R	0297	88-108-102-080	C-RES,U 1K-1/16W J	a
CD	O X	0201	87-A70-371-080	VIB,CER 16.934MHZ CSTLS16M9X54	a

ELECTRICAL PARTS LIST (BZG-3)

- ! = Δ SAFTY PARTS
- C = Components marked

All components used on this model at the production line are shown in this service manual.
 However, please note that not all components will be available as spare parts for after-sales service.
 Components marked S and O are designated as spare parts for service and will be stocked at the spare parts centers.
 Components marked X and R are not designated as spare parts for after sales service, and will not be stocked at the spare parts centers.

UNIT-NAME	! C	REF-NO	PARTS-NO	PARTS-NAME	SUFFIX&MODEL
					BZG-3
					BNF
FLEX		O	8B-ZG3-607-010	PWB, FLEX PIC 2	a
SW		O S 0001	87-A92-279-080	C-SW, PUSH 2-1 ESE22MH22XQ	a
SW		O S 0002	87-A92-279-080	C-SW, PUSH 2-1 ESE22MH22XQ	a

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



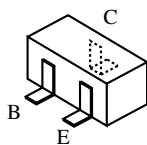
A
抵抗部品コード
Resistor Code

桁表示
Figure
抵抗値
Value of resistor

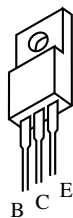
チップ抵抗
Chip resistor

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

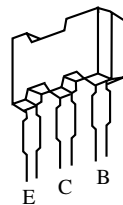
TRANSISTOR ILLUSTRATION



2SA1037AK(Q)
2SC2412KR
DTA114TKA
DTC114EKA
DTC114TKA
DTC114YKA
DTC144EKA

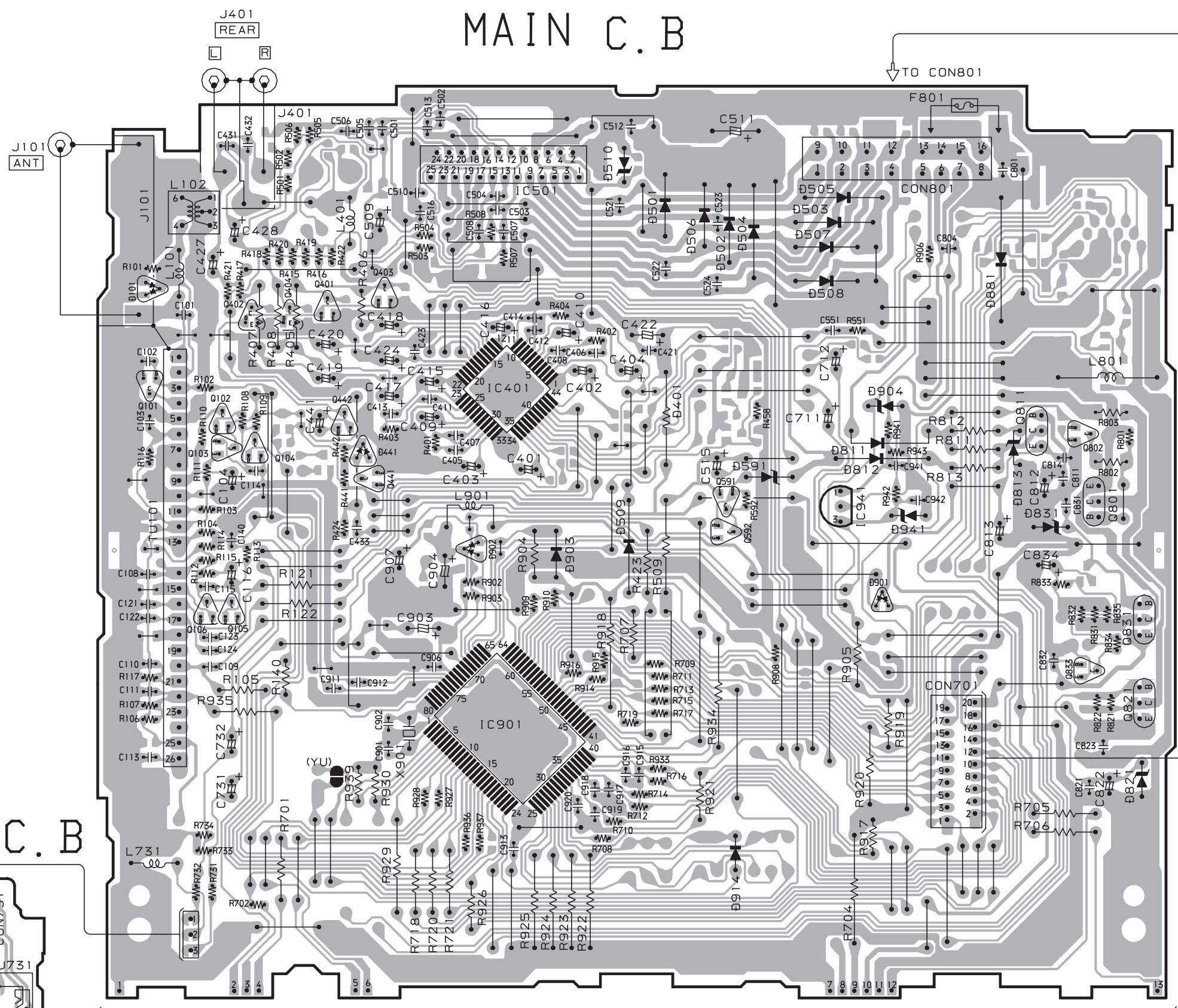


2SD2012
2SB1375



2SB1326
2SD1862

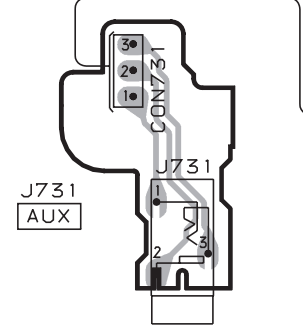
MAIN C.B



1	9	<WHT/BLK>	FL (-)
2	10	<WHT>	FL (+)
3	11	<GRN/BLK>	RL (-)
4	12	<GRN>	RL (+)
5	13	<VOL/BLK>	RR (-)
6	14	<VOL>	RR (+)
7	15	<GRY/BLK>	FR (-)
8	16	<GRY>	FR (+)

TO POWER SUPPLY/SPEAKER CONNECTOR

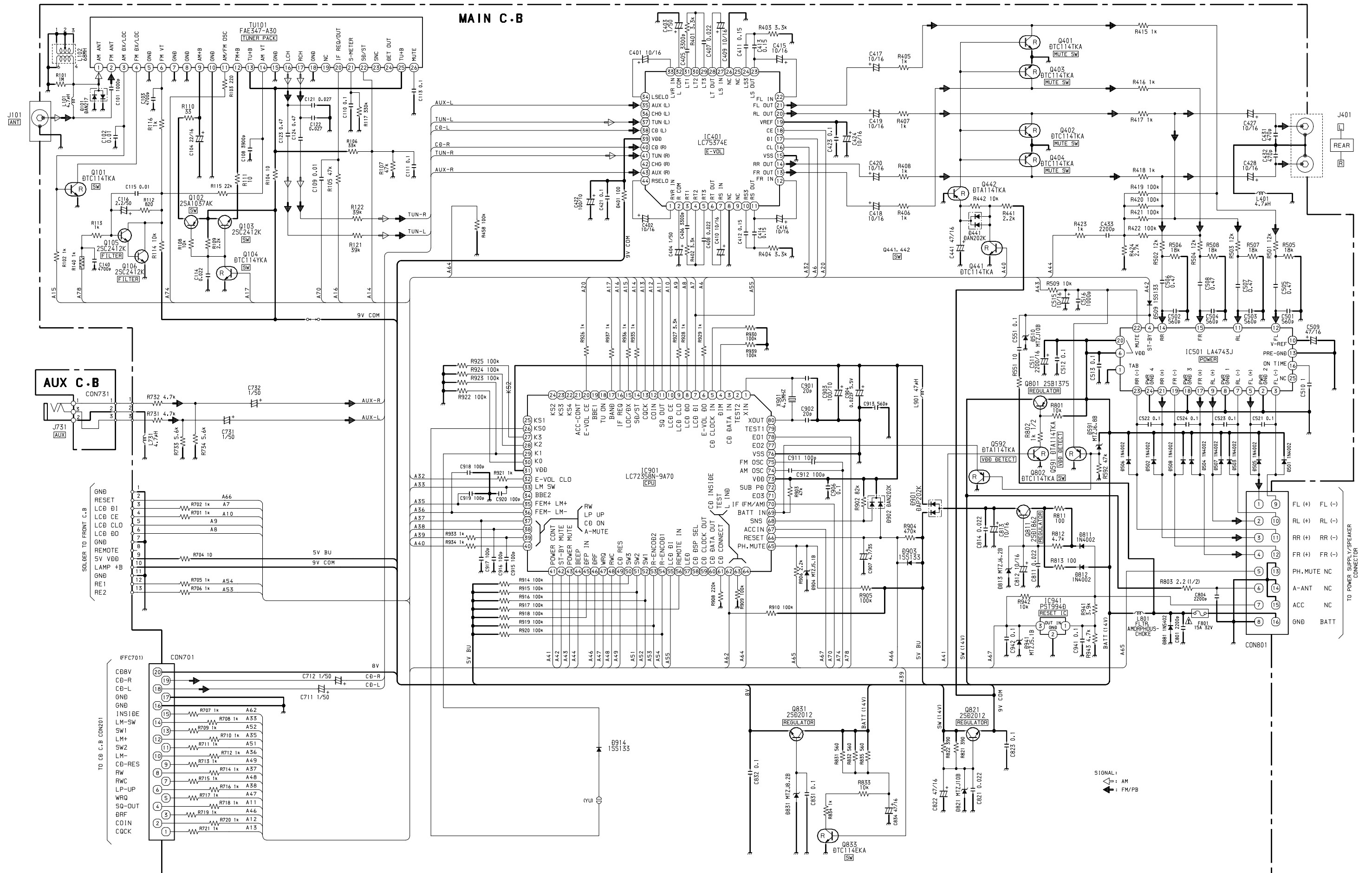
AUX C.B



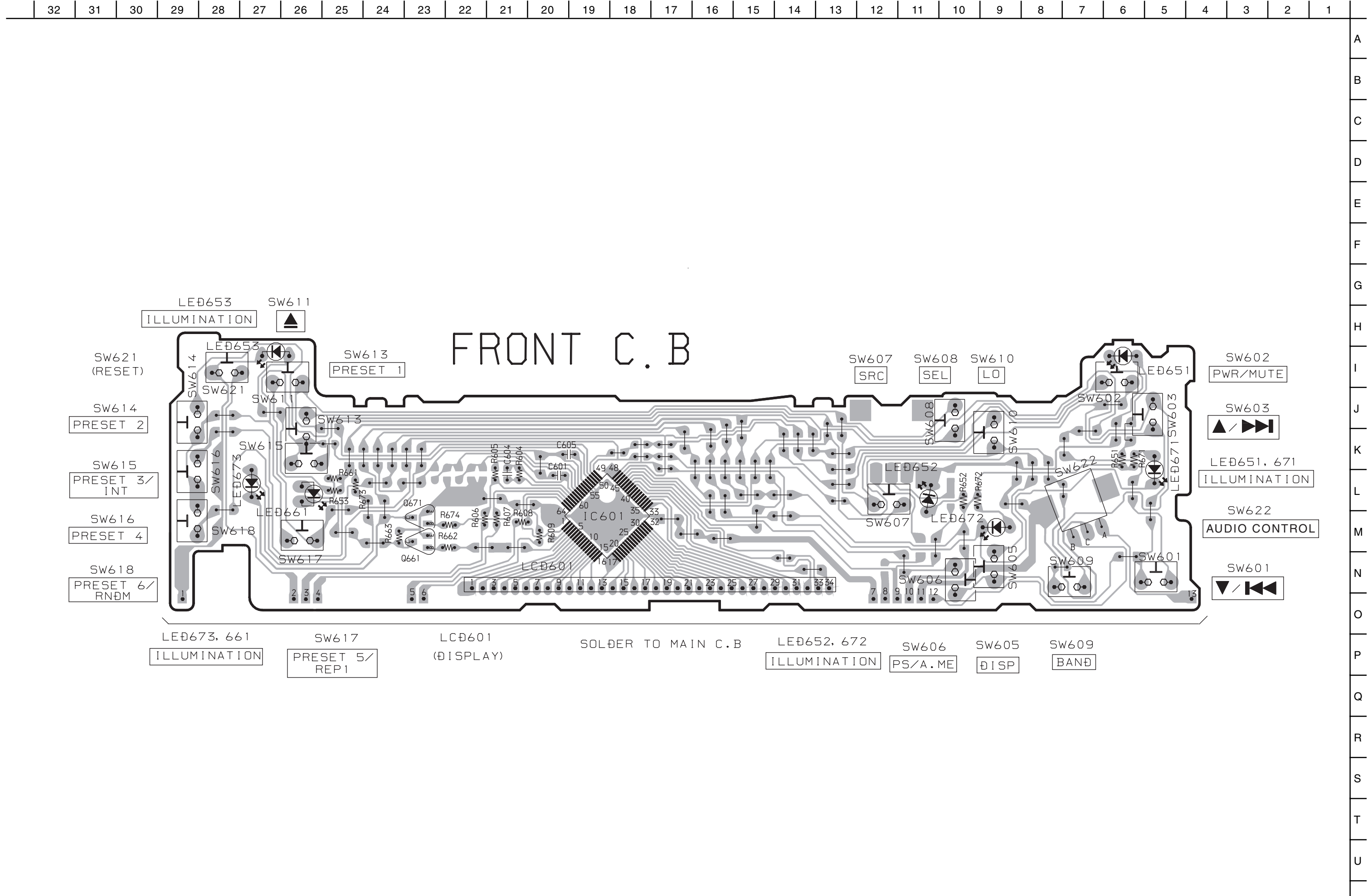
SOLDER TO FRONT C.B

TO CB C.B CON201
(FFC701)

SCHEMATIC DIAGRAM - 1 (MAIN / AUX)



WIRING-2 (FRONT)



LED653 ILLUMINATION SW611

FRONT C.B

- SW621 (RESET)
- SW614 PRESET 2
- SW615 PRESET 3/INT
- SW616 PRESET 4
- SW618 PRESET 6/RNDM

SW613 PRESET 1

- SW607 SRC
- SW608 SEL
- SW610 LO

- SW602 PWR/MUTE
- SW603 ▲ / ▶
- LED651, 671 ILLUMINATION
- SW622 AUDIO CONTROL
- SW601 ▼ / ◀

LED673, 661 ILLUMINATION

SW617 PRESET 5/REP1

LCD601 (DISPLAY)

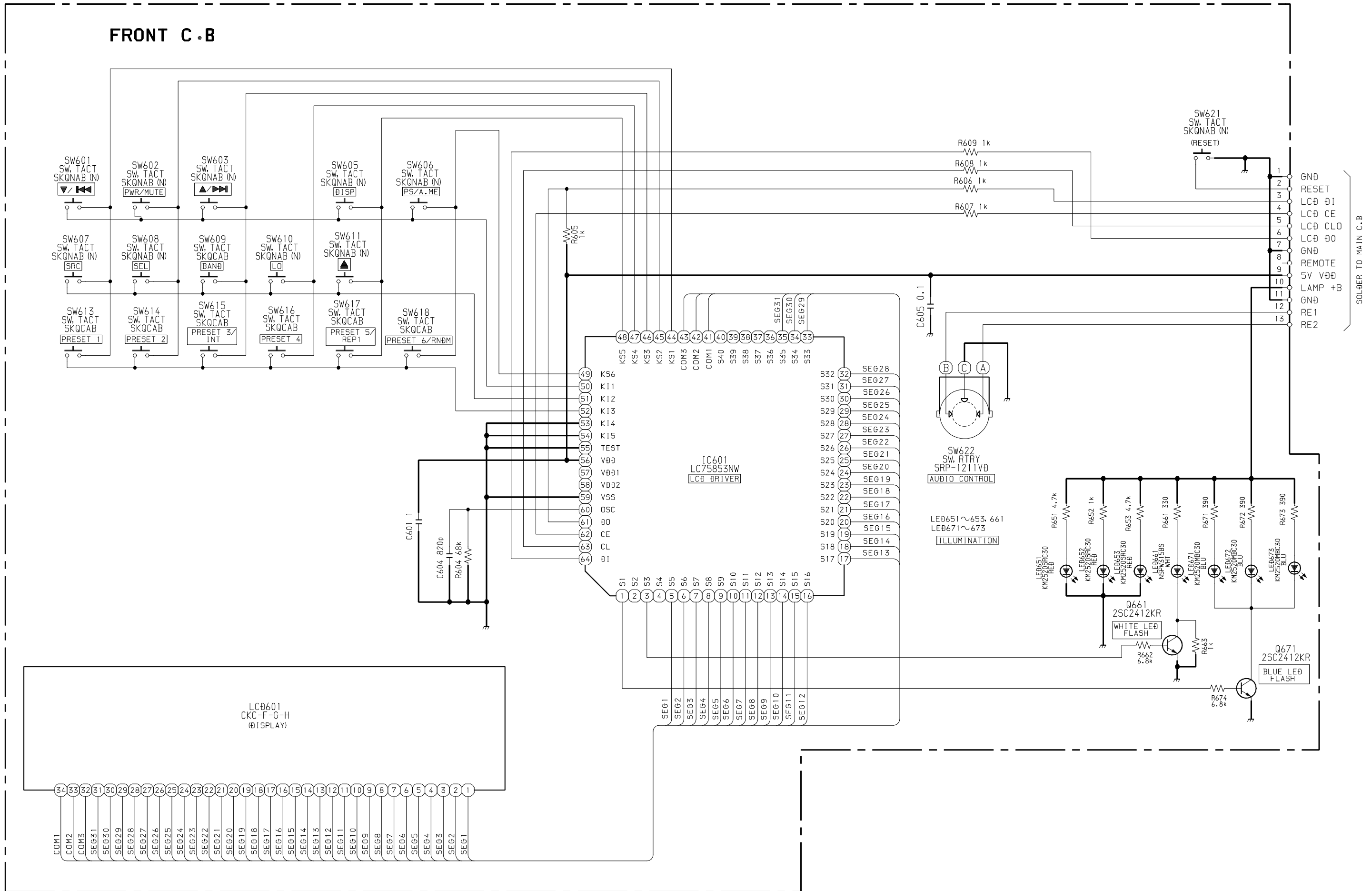
SOLDER TO MAIN C.B

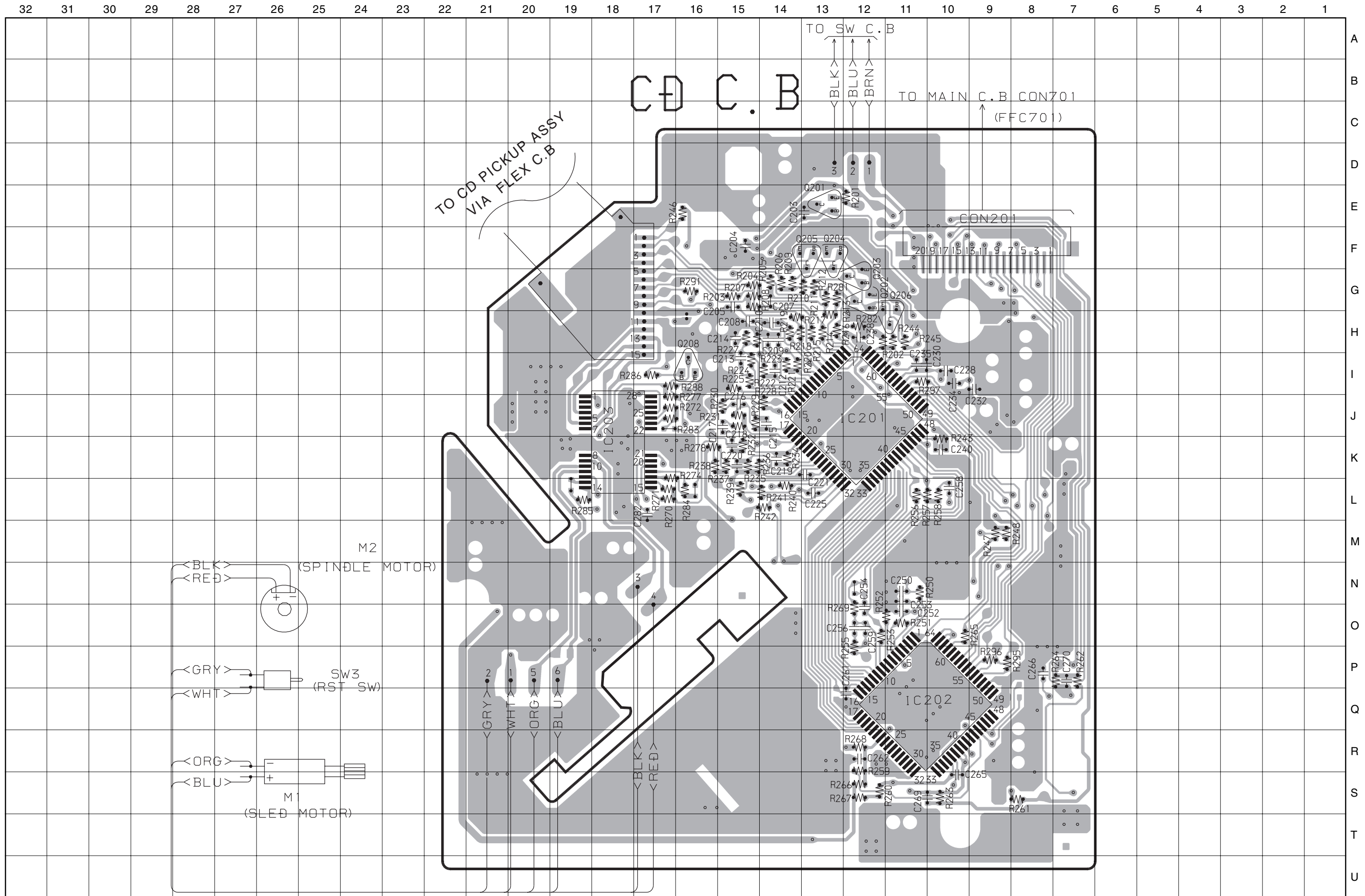
LED652, 672 ILLUMINATION

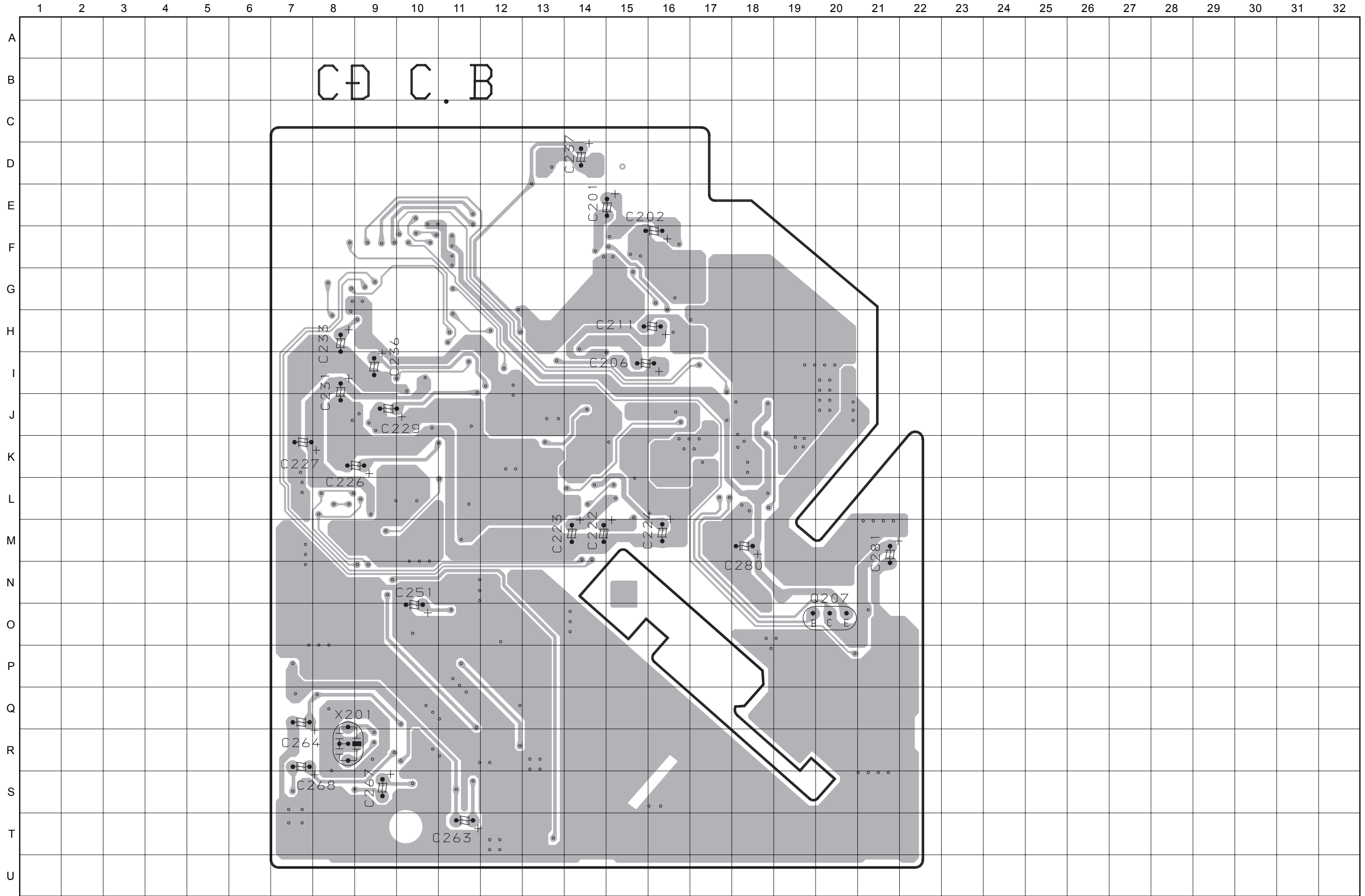
SW606 PS/A.ME

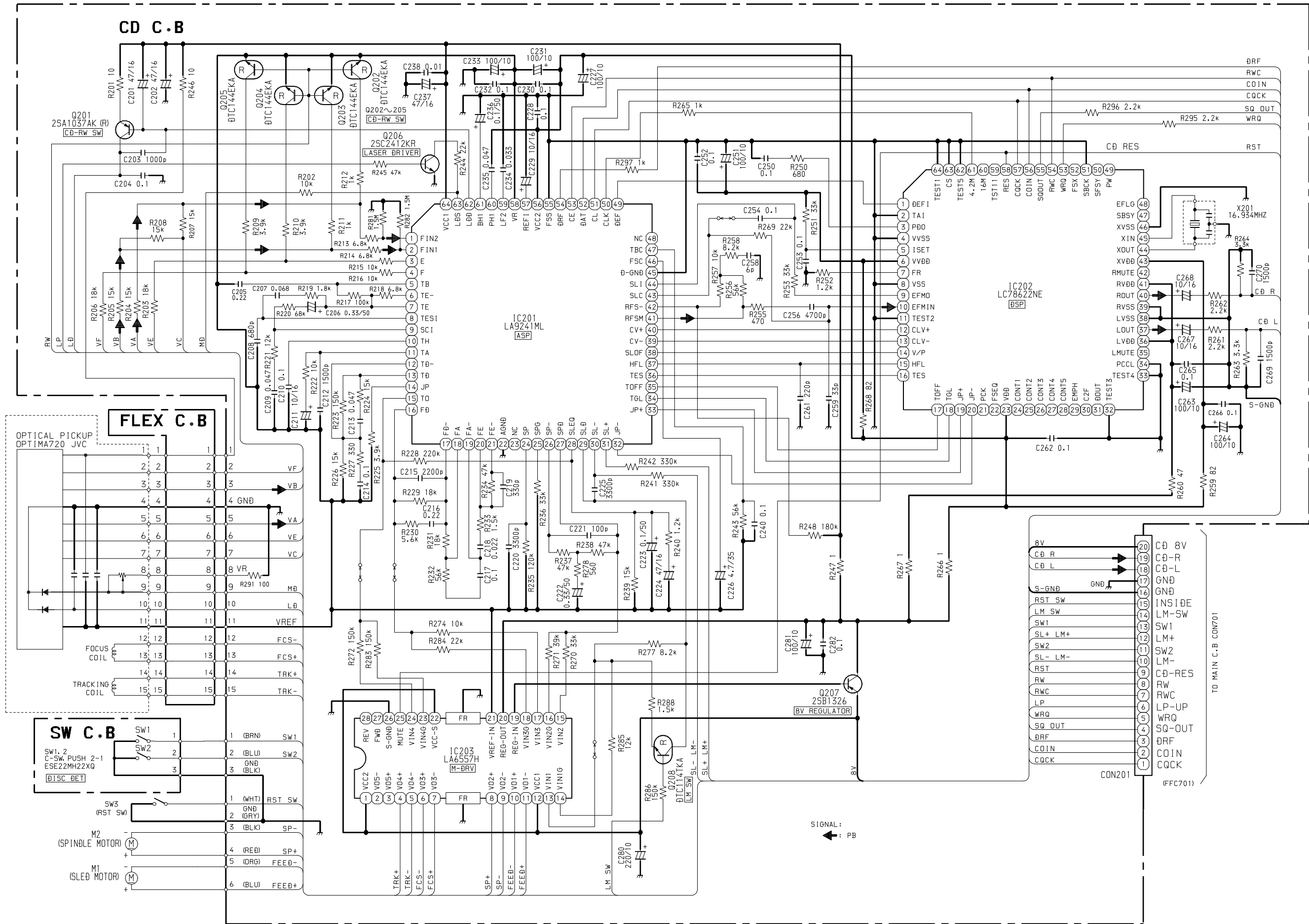
SW605 DISP

SW609 BAND







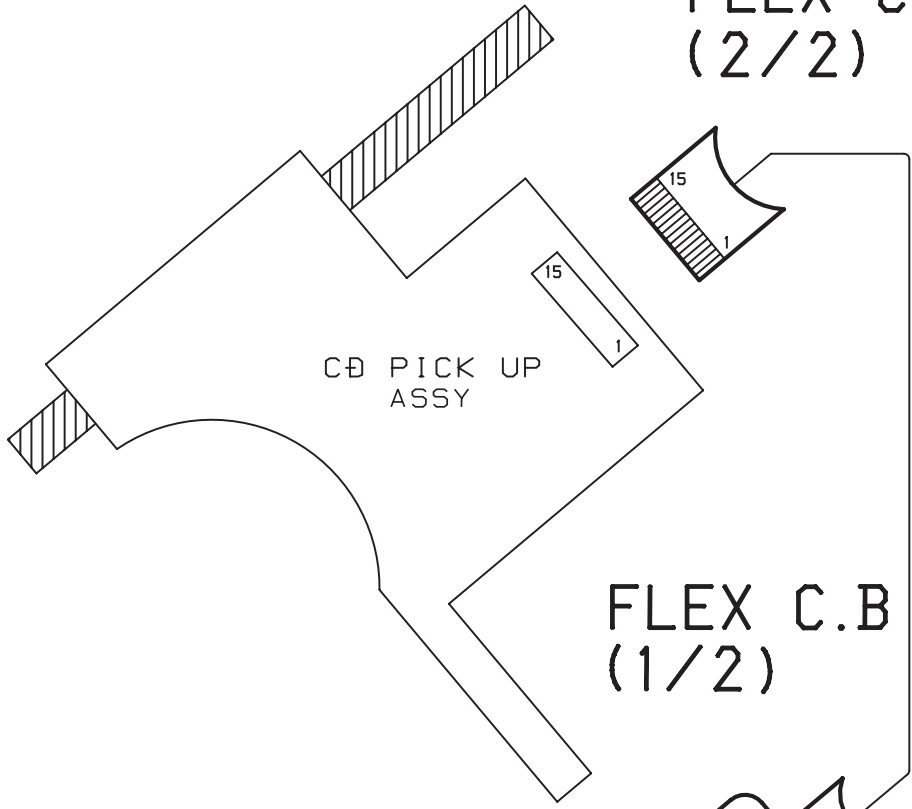


WIRING - 4 (FLEX / SW)

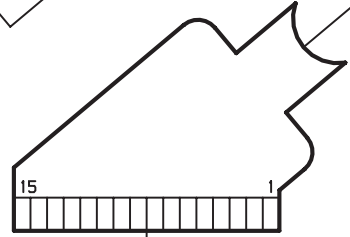
15	14	13	12	11	10	9	8	7	6	5	4	3	2	1
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A
B
C
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FLEX C.B
(2/2)

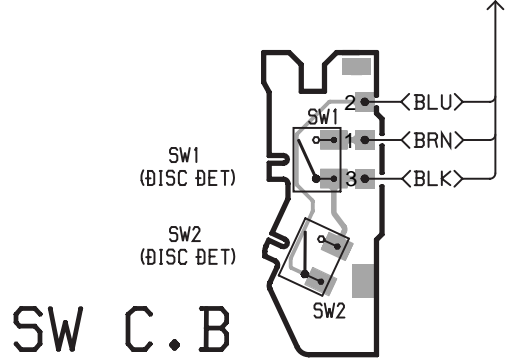


FLEX C.B
(1/2)



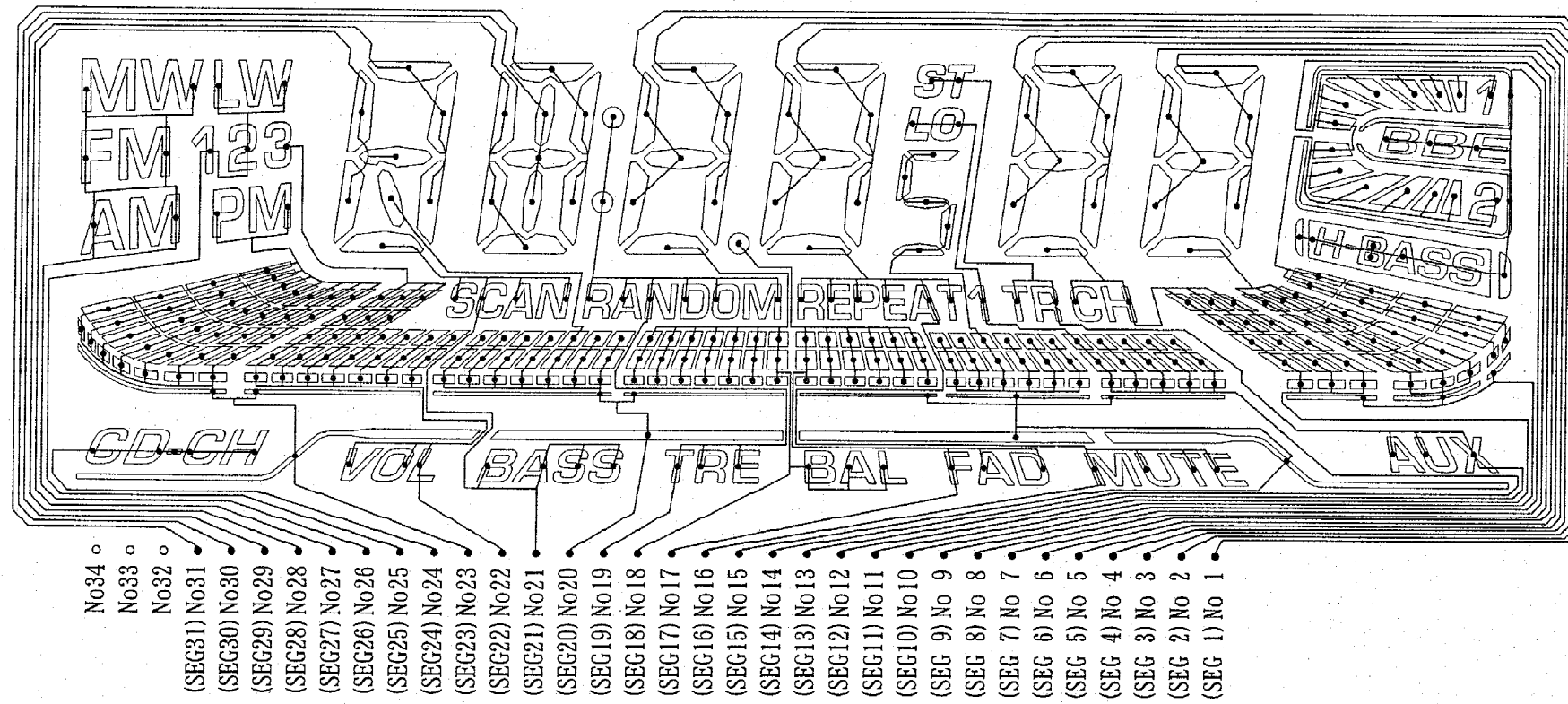
TO CD C.B

TO CD C.B

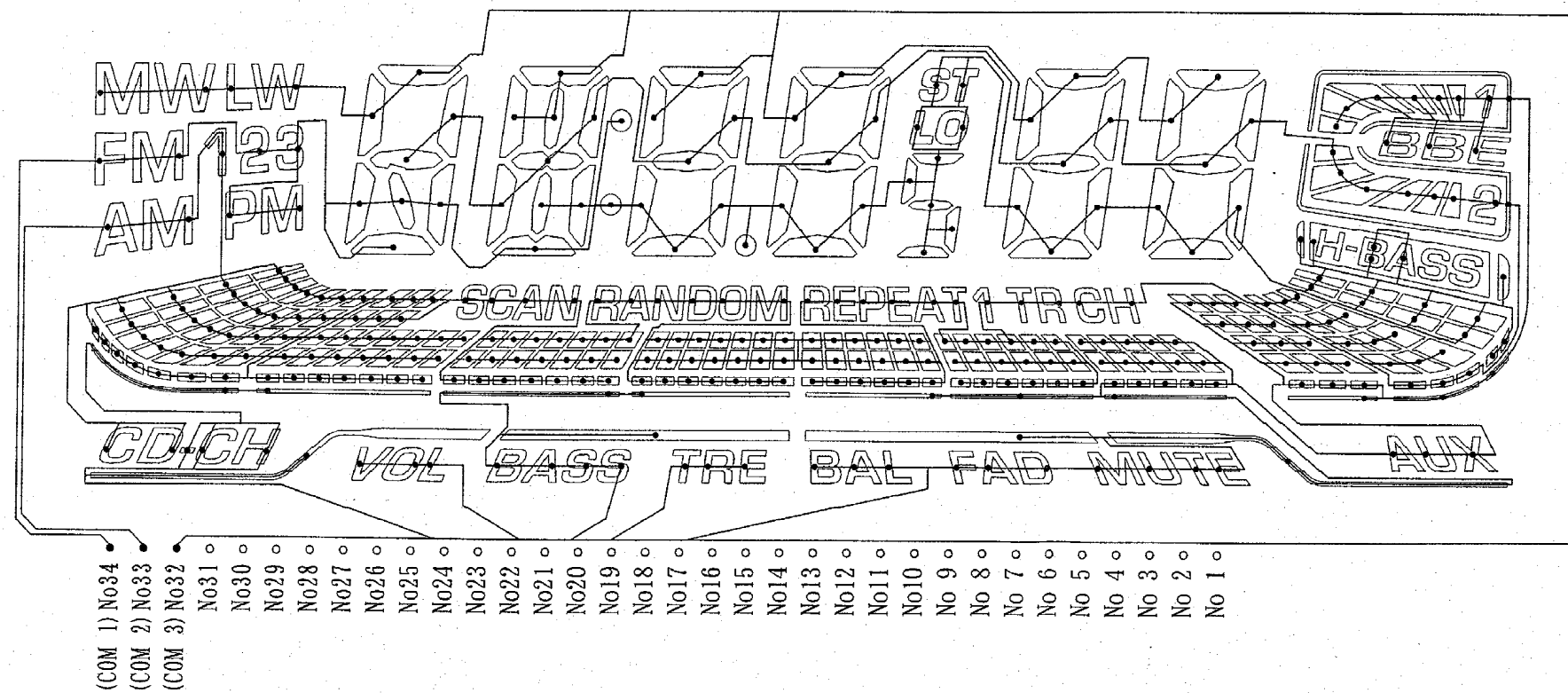


LCD DIAGRAM

<SEGMENT>



<COMMON>



<WIRING TABLE>

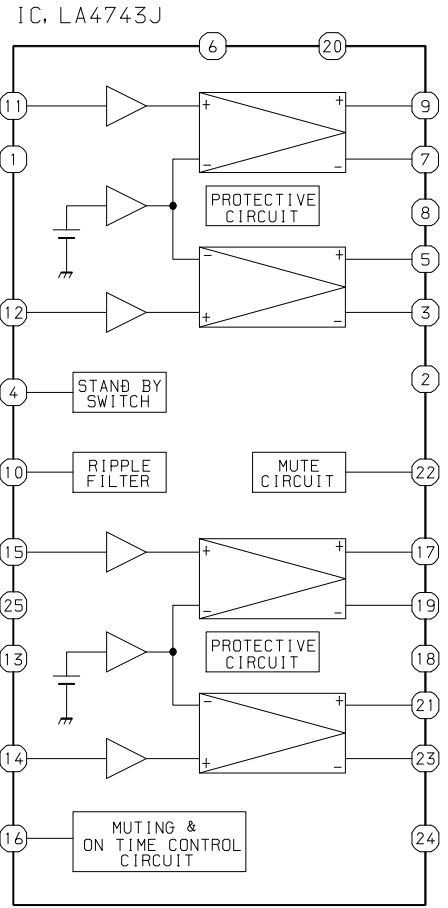
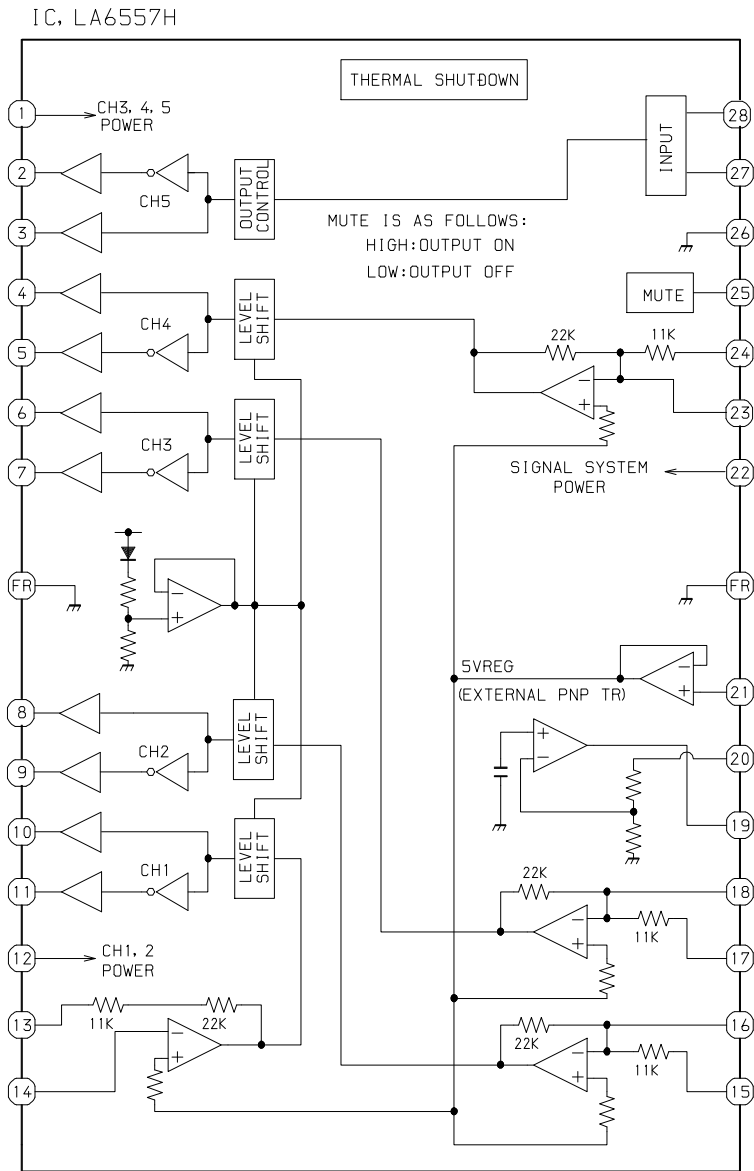
No	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
COM1	4e	4c	3e	3c	2e	2c	1e	1c	A	H-BASS	1d	2d	ST	LO	35	3d	DOT
COM2	4g	4b	3g	3b	2g	2b	1g	1b	BBE2	2	B	CH	TR	R1	E	REPEAT	F
COM3	4f	4a	3f	3a	2f	2a	1f	1a	BBE1	1,BBE	3,4,5	C	AUX	D	6,7,8,13,14	MUTE	FAD

No	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34
COM1	4d	COLON	6j	6d	B3	PM	—	B2	FM	6e	6c	5d	5i	5c	—	—	COM1
COM2	G	RANDOM	H	SCAN	I	J	CD	B1	AM	6g	6b	5e	5g	5b	—	COM2	—
COM3	BAL	TRE	9,10,15	BASS	VOL	11,12,16	-CH	LW	MW	6f	6a	5f	5h	5a	COM3	—	—

<CHARACTER>



IC BLOCK DIAGRAM



IC DESCRIPTION

IC, LC72358N-9A70

Pin No.	Pin Name	I/O	Description
1	XIN	I	System clock oscillator input.
2	TEST2	-	Not used.
3	CD DATA IN	I	Input data signal for receiving from CD changer.
4	DIM	-	Connected to GND through resistor.
5	CD CLOCK IN	I	Input synchronous clock signal for receiving from CD changer.
6	E-VOL DO	O	Data output for volume level control.
7	LCD DI	I	LCD driver data signal input.
8	LCD DO	O	LCD driver data signal output.
9	LCD CLO	O	LCD driver clock signal output.
10	LCD CE	O	LCD driver CE signal output.
11	SQ OUT	I	Sub-code input terminal.
12	COIN	O	Command output terminal for DSP.
13	CQCK	O	Transfer-out clock for command output or output terminal for sub-code transfer-in clock from SQ OUT.
14	SD/ST	I	Stereo signal input when receiving. "H"= MONO, "L"= ST FM reception. Channel detection signal input when FM/AM seeking. "H"= Detect channel.
15	LOC/DX	O	LOC/DX switching output when in the radio seek mode. "H"= LOC, "L"= DX.
16	IF REQ	O	IF count signal request output.
17	BAND	O	FM / AM power switch output. "H"= AM, "L"= FM.
18	TU ON	O	Radio power switch output. "H"= Radio mode. (Not used.)
19	BBE1	O	BBE switch ON/OFF. (Not used.)
20	E-VOL CE	O	CE output for volume level control.
21	ACC-CONT	O	Output CD changer ACC signal. (Not used.)
22	KS4	O	Initial setting diode matrix output. (Not used.)
23	KS3	O	Initial setting diode matrix output. (Not used.)
24	KS2	O	Initial setting diode matrix output. (Not used.)
25	KS1	O	Initial setting diode matrix output. (Not used.)
26	KS0	O	Initial setting diode matrix output.
27	K3	I	Initial setting diode matrix input.
28	K2	I	Initial setting diode matrix input.
29	K1	I	Initial setting diode matrix input.
30	K0	I	Initial setting diode matrix input.
31	VDD	-	Power supply.
32	E-VOL CLO	O	Clock output for volume level control.
33	LM SW	O	Loading or Thread Gain switch output.
34	BBE2	O	BBE 1 or 2 switch output. (Not used.)
35	FEM+ LM+	O	Thread motor control terminal.
36	FEM- LM-	O	Thread motor control terminal.
37	RW	O	RW disc control. Normal set to "H".
38	LP UP	O	RW disc control. Normal set to "L".
39	CD ON	O	CD power switch output.

Pin No.	Pin Name	I/O	Description
40	A-MUTE	O	Audio mute signal output.
41	POWER CONT	O	Power control signal output.
42	ST-BY MUTE	O	ST-BY mute signal output.
43	POWER MUTE	O	Power mute signal output.
44	BEEP	O	BEEP output (3kHz, 50ms).
45	DFP IN	I	Front panel detection.
46	DRF	I	"Detect RF" RF level detection input. Pulled up when not used.
47	WRQ	I	Sub-code Q output standby input terminal.
48	RWC	O	Read/write control output terminal.
49	CD RES	O	DSP reset output terminal.
50	SW3	I	Disc detection/chuck or release disc detection.
51	SW2	I	12 cm disc detection/12 cm disc ejection and detection.
52	SW1	I	Leading motor start detection.
53	R-ENCOD2	I	Rotary encoder input 2.
54	R-ENCOD1	I	Rotary encoder input 1.
55	LCD-DI	I	LCD driver data signal input.
56	REMOTE IN	I	Remote controller input. Pulled up when not used.
57	LED	O	Not used.
58	CD DSP SEL	O	Communication timing signal output to CD changer. "H": TX, "L": RX. (Not used.)
59	CD CLOCK OUT	O	Output synchronous clock signal for sending to CD changer. (Not used.)
60	CD DATA OUT	O	Output data signal for sending to CD changer. (Not used.)
61	CD CONNECT	I	Connectivity check to CD changer. (Connected to ground through resistor.)
62	CD INSIDE	I	Pick up inner track position detection.
63	TEST	I	CD test mode. Pulled down when not used.
64	L IND	I	Voltage input for level indicator. Pulled down when not used.
65	PH. MUTE	I	External mute control. "L"= -20dB mute. Pulled up when not used.
66	RESET	I	System reset. "L"= system reset.
67	ACC IN	I	ACC (accessory power) ON/OFF input. OFF = Fault mode.
68	SNS	I	Backup detection.
69	BATT IN	I	Input battery ON/OFF.
70	IF (FM/AM)	I	IF count signal input (FM/AM).
71	E03	-	Not used.
72	SUB PD	-	Not used.
73	VDD	-	Power supply.
74	AM OSC	I	AM channel transmission input.
75	FM OSC	I	FM channel transmission input.
76	VSS	-	Connected to GND.
77	E02	-	Not used.
78	E01	O	Error out from change pump (for FM/AM).
79	TEST1	-	Not used.
80	XOUT	O	System clock oscillator output.

IC, LA9241ML

Pin No.	Pin Name	I/O	Description
1	FIN2	O	For the connection of the pickup photodiode. Addition to the FIN1 pin creates an RF signal and subtraction from it create an EF signal.
2	FIN1	O	For the connection of the pickup photodiode.
3	E	O	For the connection of the pickup photodiode. Subtraction from the F pin creates a TE signal.
4	F	O	For the connection of the pickup photodiode.
5	TB	I	Inputs the DC components in the TE signal.
6	TE-	O	For the connection of a resistor which sets the gain of the TE signal between this pin and the TE pin.
7	TE	O	TE signal output.
8	TESI	I	TES (track error sense) comparator input. The signal is passed through a BPF.
9	SCI	I	Shock detection input.
10	TH	I	Sets the time constant for the tracking gain.
11	TA	O	TA amp output.
12	TD-	I	Composes the tracking phase compensation constant between the TD and VR pins.
13	TD	I	Sets the tracking phase compensation.
14	JP	I	Sets the amplitude of the tracking jump signal (kick pulses).
15	TO	O	Tracking control signal output.
16	FD	O	Focusing control signal output.
17	FD-	I	Composes the focusing phase compensation constant between the FD and FA pins.
18	FA	O	Composes the focusing phase compensation constant between the FD and FA pins.
19	FA-	I	Composes the focusing phase compensation constant between the FD and FA pins.
20	FE	O	FE signal output.
21	FE-	I	For the connection of a resistor which sets the gain of the FE signal between this pin and the TE pin.
22	A-GND	O	Ground of analog signals.
23	NC	-	Not connected.
24	SP	O	Single-ended output of the signal input to the CV+ and CV- pins.
25	SPG	I	For the connection of a resistor which sets the gain in the spindle 12cm mode.
26	SP-	I	For the connection of the spindle phase compensation constant with the SPD pin.
27	SPD	O	Spindle control signal output.
28	SLEQ	I	For the connection of sled phase compensation constant.
29	SLD	O	Sled control signal output.
30	SL-	I	Sled feed signal input from the microprocessor.
31	SL+		
32	JP-	I	Tracking signal input from the DSP.
33	JP+		
34	TGL	I	Tracking gain control signal input from the DSP. Low gain when TGL is "H".
35	TOFF	I	Tracking off control signal input from the DSP. Off when TOFF is "H".
36	TES	O	Output the TES signal to the DSP.

Pin No.	Pin Name	I/O	Description
37	HFL	O	The HFL (high frequency level) signal is used to judge whether the main beam is positioned on the pit or on the mirror.
38	SLOF	I	Sled servo off control input.
39	CV-	I	CLV error signal input from the DSP.
40	CV+		
41	RFSM	O	RF output.
42	RFS-	O	Set the RF gain and the EFM signal's 3T compensation constant together with the RFSM pin.
43	SLC	O	The SLC (slice level control) signal is output to control the DSP's data slice level of the RF waveform.
44	SLI	I	Input to control the DSP's data slice level.
45	D-GND	-	Ground of digital signals.
46	FSC	O	Output for the focus search smoothing capacitor.
47	TBC	I	The TBC (tracking balance control) signal sets the EF balance variation range.
48	NC	-	Not connected.
49	DEF	O	Disc defect detection output.
50	CLK	I	Reference clock input. 4.23 MHz is input from the DSP.
51	CL	I	Microprocessor command clock input.
52	DAT	I	Microprocessor command data input.
53	CE	I	Microprocessor chip enable input.
54	DRF	O	DRF (detect RF) is an output to detect the RF level.
55	FSS	I	The FSS (focus search select) signal switches the focus search modes (+/-search / +search with respect to the reference voltage). (Connected to D-GND)
56	VCC2	-	VCC of servo and digital circuits.
57	REFI	-	For the connection of bypass capacitor for the reference voltage.
58	VR	O	Reference voltage output.
59	LF2	-	Set the time constant for disc defect detection.
60	PH1	-	For the connection of a capacitor to hold the RF signal peak.
61	BH1	-	For the connection of a capacitor to hold the RF signal bottom.
62	LDD	O	APC circuit output.
63	LDS	I	APC circuit input.
64	VCC1	-	VCC of RF signal circuits.

IC, LC78622NE

Pin No.	Pin Name	I/O	Description
1	DEFI	I	Defect detection signal (DEF) input. (Must be connected to 0V when not in used.)
2	TAI	I	For PLL/Test input. A pull-down resistor is built-in. (Must be connected to 0V.)
3	PDO	O	External VCO control phase comparator output.
4	VVSS	-	Internal VCO ground. (Must be connected to 0V.)
5	ISET	I	PDO output current adjustment resistor connection.
6	VVDD	-	Internal VCO power supply.
7	FR	I	VCO frequency range adjustment.
8	VSS	-	Digital system ground. (Must be connected to 0V.)
9	EFMO	O	Slice level control EFM signal output.
10	EFMIN	I	Slice level control EFM signal input.
11	TEST2	I	Test input. A pull-down resistor is built-in. (Must be connected to 0V.)
12,13	CLV+,CLV-	O	Disc motor control output. Can be set to three-value output by microprocessor command.
14	V/P	O	Rough servo/phase control automatic switching monitor output. Output a high level during rough servo a low level.
15	HFL	I	Track detection signal input. This is a Schmitt input.
16	TES	I	Tracking error signal input. This is a Schmitt input.
17	TOFF	O	Tracking off output.
18	TGL	O	Tracking gain switching output. Increase the gain when low.
19	JP+	O	Track jump output. Three value output is also possible when specified by microprocessor command.
20	JP-		
21	PCK	O	EFM data playback clock monitor. Output 4.3218 MHz when the phase is locked. (Not used)
22	FSEQ	O	Synchronization signal detection output. Output a high level when the synchronization signal detected from the EFM signal and the internally generated synchronization signal range.(Not used)
23	VDD	-	Digital system power supply.
24 ~ 28	CONT1 ~ 5	I/O	General purpose input/ output pin 1 ~ 5. (Not used)
29	EMPH	O	De-emphasis monitor. A high level indicates playback of a De-emphasis disc. (Not used)
30	C2F	O	C2 flag output. (Not used)
31	DOUT	O	Digital output. (Not used)
32	TEST3	I	Test input. A pull-down resistor is built-in. (Must be connected to 0V.)
33	TEST4	I	Test input. A pull-down resistor is built-in. (Must be connected to 0V.)
34	PCCL	I	General purpose input/output command identifying. A pull-down resistor is built-in. "H": Control possible only for the general purpose input/ output port command. "L": Control possible for all commands. (Must be connected to 0V.)
35	LMUTE	O	Left channel mute output. (Not used)
36	LVDD	-	Left channel power supply.
37	LOUT	O	Left channel output.
38	LVSS	-	Left channel ground. (Must be connected to 0V.)
39	RVSS	-	Right channel ground. (Must be connected to 0V.)
40	ROUT	O	Right channel output.
41	RVDD	-	Right channel power supply.

Pin No.	Pin Name	I/O	Description
42	RMUTE	O	Right channel mute output. (Not used)
43	XVDD	-	Crystal oscillator power supply.
44	XOUT	O	Connection for a 16.93 MHz crystal oscillator element.
45	XIN	I	
46	XVSS	-	Crystal oscillator ground. (Must be connected to 0V.)
47	SBSY	O	Subcode clock synchronization signal output. (Not used)
48	EFLG	O	C1, C2, single and double error correction monitor. (Not used)
49	PW	O	Subcode P, Q, R, S, T, U and W output. (Not used)
50	SFSY	O	Subcode frame synchronization signal output. This signal falls when the subcode are in standby state. (Not used)
51	SBCK	I	Subcode read out clock input. This is a Schmitt input. (Must be connected to 0 V.)
52	FSX	O	Output pin for the 7.35 kHz synchronization signal divided from the crystal oscillator. (Not used)
53	WRQ	O	Subcode Q output standby output.
54	RWC	I	Read/write control input. This is a Schmitt input.
55	SQOUT	O	Subcode Q output.
56	COIN	I	Command input pin from control microprocessor.
57	CQCK	I	Input for both the command input acquisition clock and the SQOUT pin subcode readout clock input pin. This is Schmitt input.
58	RES	I	Reset input. This pin must be set low briefly after power is first applied.
59	TST11	O	Test output. Leave open. (Normally output a low level.) (Not used.)
60	16M	O	16.9344 MHz output. (Not used.)
61	4.2M	O	4.2336 MHz output.
62	TEST5	I	Test input. A pull-down resistor is built-in. (Must be connected to 0V.)
63	CS	I	Chip select input. A pull-down resistor is built-in. (Must be connected to 0 V.)
64	TEST1	I	Test input. No pull-down resistor. (Must be connected to 0V.)

Pin No.	Pin Name	I/O	Description
1	RVR IN	I	4dB volume control input. Must be driven at a low impedance.
2	R COM	-	1dB volume control common pin.
3 ~ 5	RT1 ~ RT3	-	For the connection of capacitors that compensate for bass and treble in the tone control circuits. A high-frequency compensation capacitors must be connected between T1 and T2. A low-frequency compensation capacitors must be connected between T2 and T3.
6	RT OUT	O	Tone control output.
7	RS IN	I	Super bass input. Must be driven at a low impedance.
8	NC	-	Connected to VSS.
9	NC	-	Not connected.
10	RS3	-	For the connection of RCH super bass compensation capacitors.
11	RS OUT		
12	FR IN	I	Fader input. Must be driven at a low impedance.
13	FR OUT	O	Fader outputs. The front and rear sides can be attenuated independently.
14	RR OUT		
15	VSS	-	Ground.
16	CL	I	Serial data and clock input for control.
17	DI		
18	CE	-	Chip enable. Data is written in the internal latch when the chip enable signal goes "L" from "H", and each analog switch is activated. Data transfer is enabled at "H".
19	VREF	-	Generates a 1/2VDD power source. A capacitor must be connected between VREF and VSS as a troubleshooting against power ripples.
20	RL OUT	O	Fader output. The front and rear sides can be attenuated independently.
21	FL OUT		
22	FL IN	I	Fader input. Must be driven at a low impedance.
23	LS OUT	-	For the connection of LCH super bass compensation capacitors.
24	LS3		
25	NC	-	Not connected.
26	NC	-	Connected to VSS.
27	LS IN	I	Super bass input. Must be driven at a low impedance.
28	LT OUT	O	Tone control output.
29 ~ 31	LT3 ~ LT1	-	For the connection of capacitors that compensate for bass and treble in the tone control circuit. A high-frequency compensation capacitors must be connected between T1 and T2. A low-frequency compensation capacitors must be connected between T2 and T3.
32	L COM	-	1dB volume control common pin.
33	LVR IN	I	4dB volume control input. Must be driven at a low impedance.
34	LSELO	O	Input selector output pin.
35	AUX(L)	I	Signal input pins.
36	CHG(L)	-	Not used.
37	TUN(L)	I	Signal input pins.
38	CD(L)		
39	VDD	-	Power supply.
40	CD(R)	I	Signal input pin.

Pin No.	Pin Name	I/O	Description
41	TUN(R)	I	Signal input pins.
42	CHG(R)	-	Not used.
43	AUX(R)	I	Signal inputs pins.
44	RSELO	O	Input selector output pins.

IC, LC75853NW

Pin No.	Pin Name	I/O	Description
1	S1	O	LCD segment output.
2	S2	-	Not used.
3	S3	O	LCD segment output.
4	S4	-	Not used.
5 ~ 35	S5 ~ S35	-	LCD segment output.
36 ~ 40	S36 ~ S40	-	Not used.
41 ~ 43	COM1~ COM3	O	LCD command driver output.
44 ~ 49	KS1 ~ KS6	O	Key scan output.
50 ~ 52	KI1 ~ KI3	I	Key scan input. These pins have build-in pull-down resistor.
53 ~ 54	KI4 ~ KI5	-	Connected to GND.
55	TEST	-	Test pin. (Connected to GND.)
56	VDD	-	Power supply.
57	VDD1	I	Used for applying the LCD drive 2/3 bias voltage externally. (Must be connected to VDD2 when a 1/2 bias drive scheme is used.) (Not used)
58	VDD2	I	Used for applying the LCD drive 1/3 bias voltage externally. (Must be connected to VDD1 when a 1/2 bias drive scheme is used.) (Not used)
59	VSS	-	Power supply. (Connected to GND.)
60	OSC	I/O	Resistor and capacitor are attached externally form an oscillator circuit.
61	DO	O	Serial data interface pin; output data.
62	CE	O	Serial data interface pin; chip enable.
63	CL	O	Serial data interface pin; synchronization.
64	DI	O	Serial data interface pin; data transferred.

VOLTAGE CHART

IC201, LA9241ML

PIN NO.	CD	TUNER	AUX
1	2.50	0	0
2	2.50	0	0
3	2.53	0	0
4	2.49	0	0
5	2.51	0	0
6	2.51	0	0
7	2.51	0	0
8	2.52	0	0
9	2.51	0	0
10	2.51	0	0
11	2.51	0	0
12	2.51	0	0
13	2.50	0	0
14	2.51	0	0
15	2.50	0	0
16	2.61	0	0
17	2.52	0	0
18	2.42	0	0
19	2.52	0	0
20	2.53	0	0
21	2.51	0	0
22	0	0	0
23	0	0	0
24	2.47	0	0
25	2.47	0	0
26	2.60	0	0
27	DATA	0	0
28	2.49	0	0
29	DATA	0	0
30	DATA	0	0
31	DATA	0	0
32	0	0	0
33	0	0	0
34	4.93	0	0
35	0	0	0
36	DATA	0	0
37	DATA	0	0
38	DATA	0	0
39	DATA	0	0
40	DATA	0	0
41	2.29	0	0

PIN NO.	CD	TUNER	AUX
42	2.40	0	0
43	2.41	0	0
44	2.50	0	0
45	0	0	0
46	2.51	0	0
47	2.41	0	0
48	0	0	0
49	0	0	0
50	2.41	0	0
51	4.80	0	0
52	DATA	0	0
53	DATA	0	0
54	4.84	0	0
55	0	0	0
56	4.93	0	0
57	2.51	0	0
58	2.51	0	0
59	2.39	0	0
60	2.50	0	0
61	2.22	0	0
62	3.71	0	0
63	0.19	0	0
64	4.91	0	0

IC202, LC78622NE

PIN NO.	CD	TUNER	AUX
1	0	0	0
2	0	0	0
3	1.55	0	0
4	0	0	0
5	1.77	0	0
6	4.69	0	0
7	0.33	0	0
8	0	0	0
9	2.49	0	0
10	2.39	0	0
11	0	0	0
12	DATA	0	0
13	DATA	0	0
14	DATA	0	0
15	DATA	0	0
16	DATA	0	0
17	0	0	0
18	4.93	0	0
19	0	0	0
20	0	0	0
21	2.35	0	0
22	4.93	0	0
23	4.93	0	0
24	0.20	0	0
25	0.20	0	0
26	0.20	0	0
27	0.20	0	0
28	0.20	0	0
29	0	0	0
30	0	0	0
31	2.47	0	0
32	0	0	0
33	0	0	0
34	0	0	0
35	0	0	0
36	4.90	0	0
37	2.03	0	0
38	0	0	0
39	0	0	0
40	2.03	0	0
41	4.90	0	0

PIN NO.	CD	TUNER	AUX
42	0	0	0
43	4.79	0	0
44	1.75	0	0
45	1.85	0	0
46	0	0	0
47	0.10	0	0
48	0.02	0	0
49	0.11	0	0
50	2.47	0	0
51	0	0	0
52	2.46	0	0
53	2.00	0	0
54	DATA	0	0
55	0	0	0
56	DATA	0	0
57	4.80	0	0
58	4.88	0	0
59	0	0	0
60	1.93	0	0
61	2.34	0	0
62	0	0	0
63	0	0	0
64	0	0	0

IC401, LC75374E

PIN NO.	CD	TUNER	AUX
1	4.20	4.20	4.20
2	4.26	4.26	4.26
3	4.26	4.26	4.26
4	4.28	4.28	4.28
5	4.28	4.28	4.28
6	4.28	4.28	4.28
7	4.28	4.28	4.28
8	0	0	0
9	0	0	0
10	4.25	4.25	4.25
11	4.27	4.27	4.27
12	4.25	4.25	4.25
13	4.28	4.28	4.28
14	4.27	4.27	4.27
15	0	0	0
16	DATA	DATA	DATA
17	DATA	DATA	DATA
18	DATA	DATA	DATA
19	4.27	4.27	4.27
20	4.28	4.28	4.28
21	4.28	4.28	4.28
22	4.25	4.25	4.25
23	4.28	4.28	4.28
24	4.25	4.25	4.25
25	0	0	0
26	0	0	0
27	4.25	4.25	4.25
28	4.28	4.28	4.28
29	4.28	4.28	4.28
30	4.27	4.27	4.27
31	4.27	4.27	4.27
32	4.27	4.27	4.27
33	4.20	4.20	4.20
34	4.28	4.28	4.28
35	4.25	4.25	4.25
36	4.27	4.27	4.27
37	4.25	4.25	4.25
38	4.25	4.25	4.25
39	8.14	8.14	8.14
40	4.25	4.25	4.25
41	4.25	4.25	4.25

PIN NO.	CD	TUNER	AUX
42	4.27	4.27	4.27
43	4.25	4.25	4.25
44	4.28	4.28	4.28

IC203, LA6557H

PIN NO.	CD	TUNER	AUX
1	7.10	0	0
2	0.17	0	0
3	0.17	0	0
4	3.20	0	0
5	3.20	0	0
6	3.30	0	0
7	3.10	0	0
8	3.50	0	0
9	2.90	0	0
10	3.50	0	0
11	2.90	0	0
12	7.10	0	0
13	2.60	0	0
14	2.58	0	0
15	2.64	0	0
16	2.58	0	0
17	2.60	0	0
18	2.58	0	0
19	6.50	0	0
20	5.10	0	0
21	2.58	0	0
22	7.10	0	0
23	2.58	0	0
24	2.58	0	0
25	4.88	0	0
26	0	0	0
27	0	0	0
28	0	0	0

IC501, LA4743J

PIN NO.	CD	TUNER	AUX
1	0	0	0
2	0	0	0
3	2.75	2.75	2.75
4	4.76	4.76	4.76
5	2.74	2.74	2.74
6	14.38	14.38	14.38
7	2.75	2.75	2.75
8	0	0	0
9	2.68	2.68	2.68
10	13.17	13.17	13.17
11	3.04	3.04	3.04
12	3.09	3.09	3.09
13	0	0	0
14	3.09	3.09	3.09
15	3.04	3.04	3.04
16	2.29	2.29	2.29
17	2.71	2.71	2.71
18	0	0	0
19	2.73	2.73	2.73
20	14.38	14.38	14.38
21	2.76	2.76	2.76
22	4.54	4.54	4.54
23	2.72	2.72	2.72
24	0	0	0
25	0	0	0

IC901, LC72358N-9A70

PIN NO.	CD	TUNER	AUX
1	2.40	2.40	2.40
2	0	0	0
3	0	0	0
4	0	0	0
5	0	0	0
6	DATA	DATA	DATA
7	4.95	4.95	4.90
8	DATA	DATA	DATA
9	DATA	DATA	DATA
10	DATA	DATA	DATA
11	DATA	0	0
12	0	0	0
13	4.78	0	0
14	4.92	5.03	4.90
15	0	0	0
16	0	0	0
17	0	0	0
18	0	4.90	0
19	0	0	0
20	DATA	DATA	DATA
21	0	0	0
22	0	0	0
23	0	0	0
24	0	0	0
25	0	0	0
26	0	0	0
27	0	0	0
28	0	0	0
29	0	0	0
30	0	0	0
31	4.90	4.90	4.90
32	DATA	DATA	DATA
33	0	0	0
34	0	0	0
35	0	0	0
36	0	0	0
37	4.82 / 0	0	0
38	0	0	0
39	4.87	0	0
40	4.87	4.80	4.80
41	4.87	4.80	4.80

TU101, FAE347-A30

PIN NO.	CD	TUNER	AUX
42	4.90	4.80	4.80
43	4.90	4.90	4.90
44	0	0	0
45	4.90	4.90	4.90
46	4.91	0	0
47	DATA	0	0
48	DATA	0	0
49	4.85	0	0
50	0	0	0
51	4.92	4.92	4.92
52	4.92	4.90	4.90
53	4.79	4.79	4.78
54	0.05	0.05	0.05
55	4.95	4.95	4.94
56	0	0	0
57	0	0	0
58	0	0	0
59	0	0	0
60	0	0	0
61	0	0	0
62	4.92	4.92	4.91
63	0	0	0
64	DATA	DATA	DATA
65	3.28	3.28	3.31
66	4.85	4.85	4.80
67	4.63	4.62	4.63
68	4.84	4.84	4.85
69	4.86	4.88	4.87
70	0	2.51	0
71	0	0	0
72	0	0	0
73	4.90	4.90	4.90
74	0	0 / 2.34	0
75	0	2.45 / 0	0
76	0	0	0
77	0	0	0
78	0.97	0.97	1.02
79	0	0	0
80	2.49	2.46	2.47

PIN NO.	ANT INPUT OPEN		ANT STANDARD INPUT	
	FM	AM	FM	AM
1	0	0	0	0
2	0	0	0	0
3	0	0	0	0
4	7.82	0.20	7.65	0.21
5	0	0	0	0
6	3.42	3.42	3.42	3.42
7	0	0	0	0
8	0	0	0	0
9	0	8.70	0	9.15
10	0	0	0	0
11	0	0	0	0
12	8.20	0	8.08	0
13	8.53	8.40	8.44	8.92
14	3.41	3.42	3.42	3.42
15	0	0	0	0
16	3.41	3.44	3.39	3.42
17	3.36	3.41	3.39	3.42
18	0	0	0	0
19	0	0	0	0
20	0.01	0.01	0	0
21	0.64	0.50	6.13	5.55
22	4.90	4.84	4.56	4.54
23	0.07	0.04	0.95	0.84
24	4.07	1.21	4.01	1.21
25	8.53	8.40	8.44	8.92
26	2.38	0.07	0.06	0.07

ANT standard input Modulation Modulation frequency Tuning range
 FM : 1 mV(60 dBuV) 75 kHz (100%) 1 kHz 98 MHz
 AM : 5 mV(75 dBuV) 30% 400 kHz 1000 kHz

CD TEST MODE

1. Starting CD Test Mode

- 1) Remove the resistance (100KΩ) on 63 pin (test) line of IC 901 (LC72358N) located on the main circuit board, and connect 73 pin (VDD) and 63 pin line with a wire.

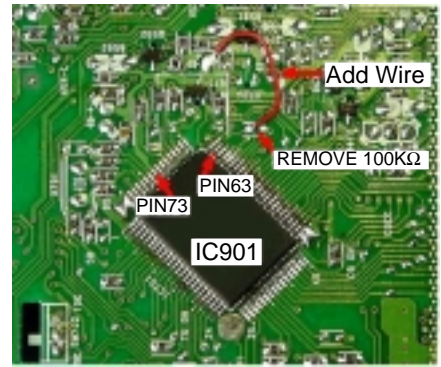


Fig-1

- 2) Connect the ACC (red) /BATT (yellow) wire to the positive terminal of Power Supply device, and the GND (black) wire to the negative terminal.
- 3) Adjust the applied voltage of Power Supply device to 14.5V, and then turn on the power. Test mode starts, and all LCD are lit. Refer to Fig-2.











Fig-2

2. Exiting CD Test Mode

- 1) Turn off the power of Power Supply device.
- 2) Remove connector Assy wires.
- 3) Remove the wire of the main circuit board.

3. Function of CD Test Mode

MODE	Function Key	Display	Movement	Details
Start Mode		All lit.		Test mode starts.
Load/Unload	 EJECT	All lit.	Chacking	All servo OFF Laser ON VCC ON
Search Mode		All lit.	Continuous focus search PU lens repeats full swings. (Note 1)	Check APC circuit. Measure the level of laser current electricity. Check focus error wave forms.
Play Mode	 REP1	TOC Reading Track No, Play time display Level display	Normal playback If TOC READ is not available, the movement during search mode is applied. (Note 2)	Focus servo Tracking servo CLV servo Sled servo
Traverse Mode	 INT	Track No, Play time display	Playback pause mode (Note 3)	Tracking servo OFF
STOP		All lit.	Standby mode	All servo OFF Laser ON/OFF
Sled Mode		All lit.	 Pickup moves to the outermost position.  Pickup moves to the innermost position. (Note 4)	Sled servo Check mechanism movement.

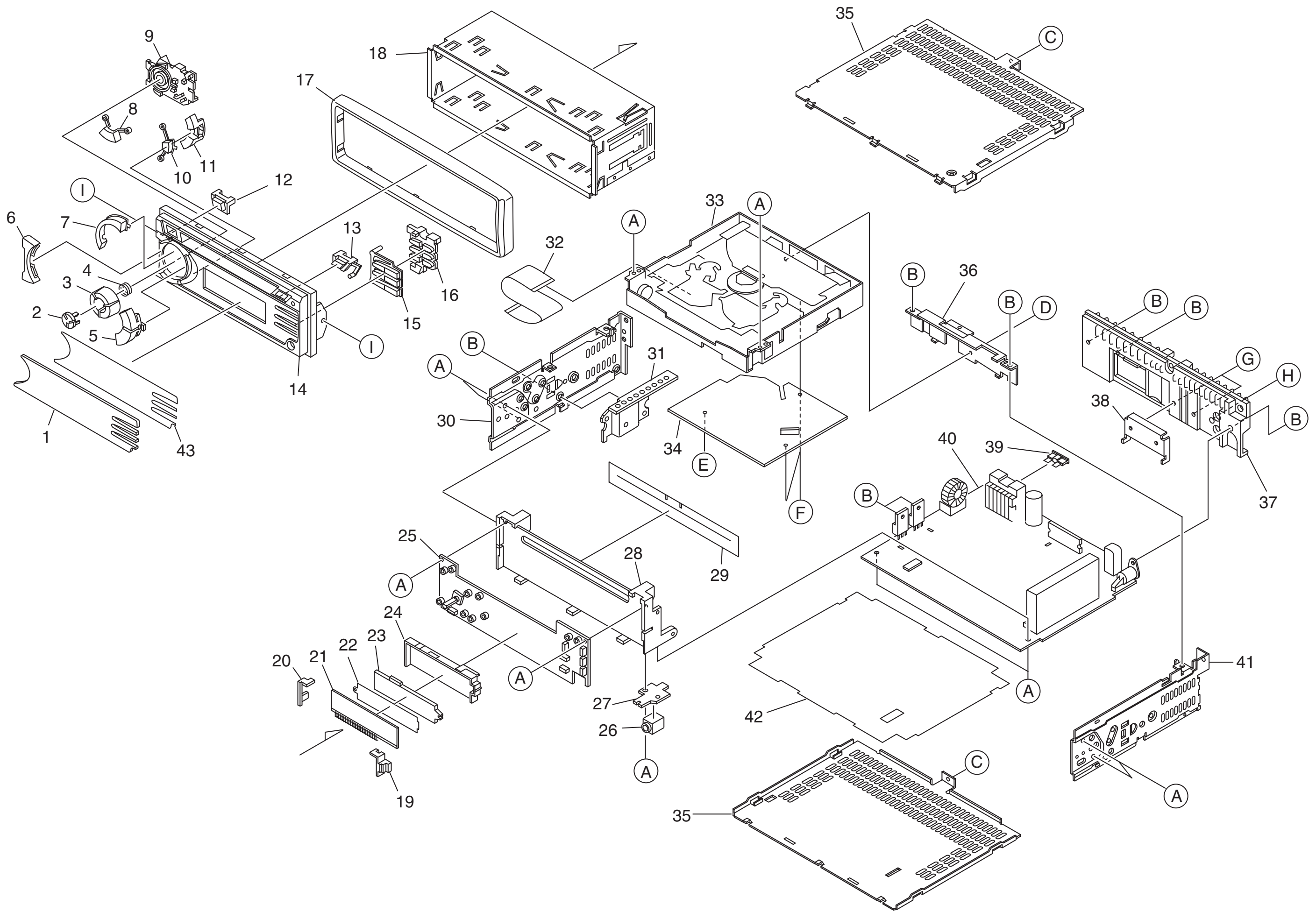
Note 1: • Check Search Mode without inserting any CD.
• To exit Search Mode, insert a CD or press the POWER button to turn off the power.
• When Search Mode operates continuously more than 10 minutes, the protection circuit is activated due to heat generation of the driver IC, and CD stops operating.
In this case, turn off the power, wait for approximately 10 minutes so that heat is released, and then restart.

Note 2: • To exit Play mode, press the POWER button to turn off the power.

Note 3: • To exit Traverse Mode, switch to Play Mode or press the POWER button to turn off the power.

Note 4: • Be sure to insert a CD to check the movement of Play Mode and Sled Mode.

MECHANICAL EXPLODED VIEW



MECHANICAL PARTS LIST

! = Δ SAFTY PARTS
 C = Components marked

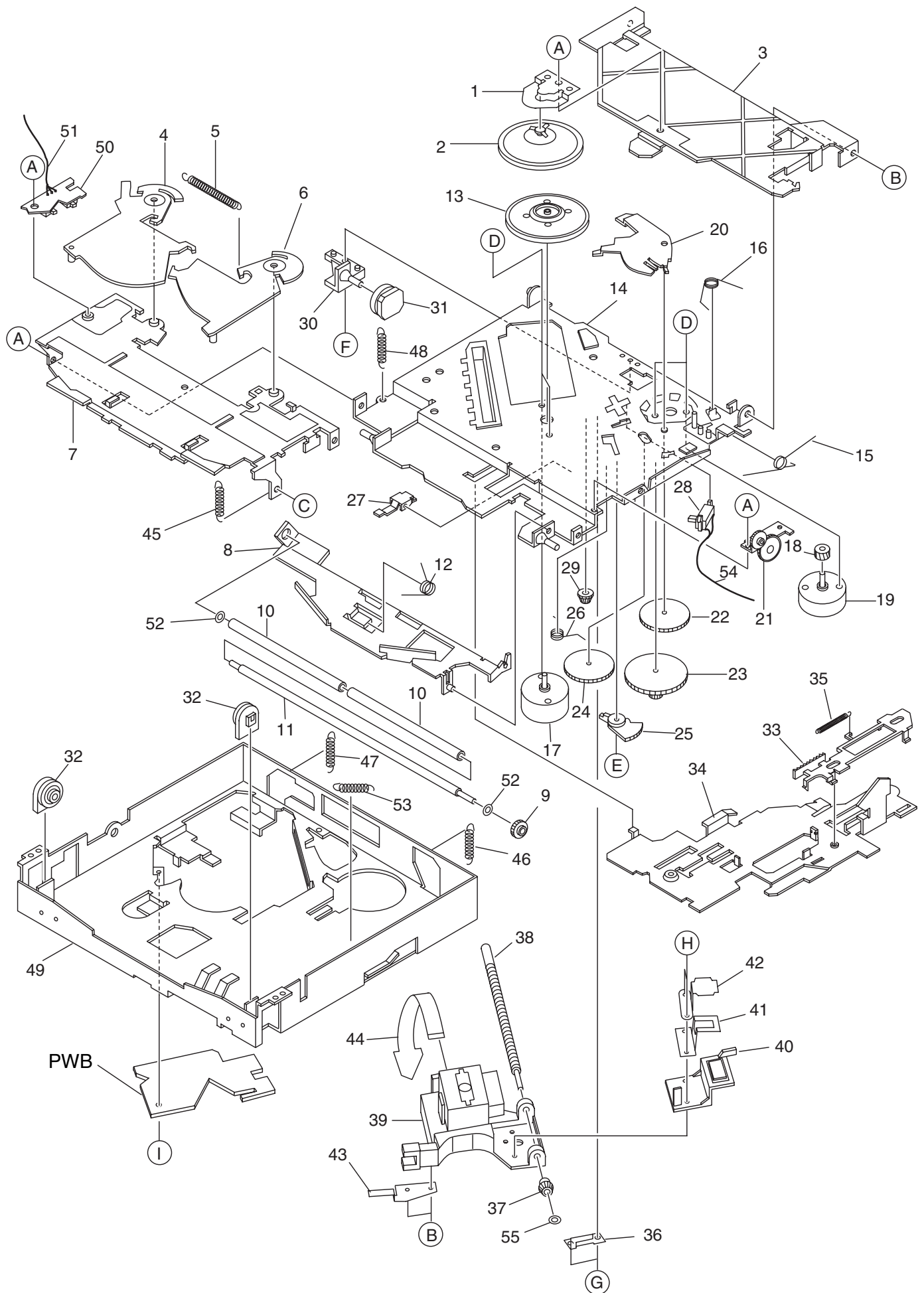
All components used on this model at the production line are shown in this service manual.
 However, please note that not all components will be available as spare parts for after-sales service.
 Components marked S and O are designated as spare parts for service and will be stocked at the spare parts centers.
 Components marked X and R are not designated as spare parts for after sales service, and will not be stocked at the spare parts centers.

UNIT-NAME	! C	REF-NO	PARTS-NO	PARTS-NAME	SUFFIX&MODEL
					CDC-Z127 YUSF
	O	MC1001	8C-KCH-002-010	WINDOW, PANEL Z127	a
	O	MC1002	8C-KCG-022-010	LENS, RTRY	a
	O	MC1003	8C-KCG-021-010	KNOB, RTRY	a
	O	MC1004	8B-KCG-253-010	SPR-C, ROTARY -BC2	a
	O	MC1005	8C-KCG-012-110	BTN, OV IN	a
	O	MC1006	8C-KCG-018-010	BTN, SEESAW L	a
	O	MC1007	8C-KCG-011-010	CABI, OV	a
	O	MC1008	8C-KCG-015-010	BTN, OV B	a
	O	MC1009	8C-KCG-215-010	LENS, L	a
	O	MC1010	8C-KCG-014-010	BTN, OV R	a
	O	MC1011	8C-KCG-013-010	BTN, OV OUT	a
	O	MC1012	8C-KCG-019-010	BTN, SQ L	a
	O	MC1013	8C-KCG-020-010	BTN, SQ R	a
	O	MC1014	8C-KCH-001-010	CABI, FRONT 17	a
	O	MC1015	8C-KCG-017-010	BTN, P.SET	a
	O	MC1016	8C-KCG-216-010	LENS, R	a
	O	MC1017	8C-KCH-020-010	CABI, TRIM 17	a
	O	MC1018	8Z-KC1-231-110	HLDR, HALF -C	a
	O	MC1019	8C-KCG-214-010	HLDR, LCD R	a
	O	MC1020	8C-KCG-213-010	HLDR, LCD L	a
					CDC-Z127 YUSF
	O	MC1021	8C-KCG-616-010	LCD, CKC-F-G-H	a
	X	MC1022	8C-KCH-211-010	SH, LCD	a
	O	MC1023	8C-KCG-211-010	LENS, LCD	a
	O	MC1024	8C-KCG-212-010	CASE, LCD LENS	a
	X	MC1025	8C-KCH-606-010	PWB, FRONT 4M	a
	O	MC1026	85-HRL-623-010	JACK, 3.5 BLK ST BLK	a
	X	MC1027	8C-KCH-603-010	PWB, AUX	a
	X	MC1028	8C-KCH-201-010	HLDR, FR PWB	a
	O	MC1029	8C-KCH-212-010	COVER, DUST -C	a
	O	MC1030	8B-KC1-213-110	CHAS, SIDE L-BC	a
	X	MC1031	8A-KC7-230-210	HLDR, TR2 -AC	a
	O	MC1032	88-KC4-641-010	FF-CABLE, 20P 1.0 90MM	a
	X	MC1033	M8-BZG-391-040	BZG-3 BNF	a
	X	MC1034	A8-CZA-490-040	CZA-4 SNYNF	a
	O	MC1035	8Z-KC1-256-010	COVER, BOTTM RDS	a
	O	MC1036	8B-KCG-247-010	HLDR, MECHA AS-BC	a
	X	MC1037	8C-KCG-243-010	PANEL, HT-SINK U2	a
	X	MC1038	8A-KC7-224-010	HLDR, P-IC -AC	a
	! S	MC1039	8B-KC1-621-010	FUSE, 15A 32V	a
	X	MC1040	8C-KCH-602-010	PWB, MAIN	a
					CDC-Z127 YUSF
	O	MC1041	8B-KC1-214-110	CHAS, SIDE R-BC	a
	X	MC1042	8Z-KC1-234-210	SH, PWB	a
	X	MC1043	8C-KCG-221-010	SH, ADH WINDOW	a
	O	MC1A	87-342-074-010	UT2+2.6-8 W/O SLOT	a
	O	MC1B	87-B10-384-010	UIT+2.6-6	a
	O	MC1C	87-B10-397-010	UTT2+2.6-4 W/O SLOT	a
	O	MC1D	87-081-501-010	VTT+2.6-4	a
	O	MC1E	87-571-032-410	VIT+2-3	a
	O	MC1F	8B-ZG3-287-010	S-SCREW, TH1.7-4 0.5	a
	O	MC1G	87-251-097-410	U+3-12	a
	O	MC1H	87-B10-259-010	UT2+3.0-10.0 W/O SLOT (BH TAP)	a
	O	MC1I	8Z-KC1-251-010	S-SCREW, TH2.6-4.0-0.8	a

COLOR NAME TABLE

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

CD MECHANISM EXPLODED VIEW



CD MECHANISM PARTS LIST

! = Δ SAFTY PARTS
 C = Components marked

All components used on this model at the production line are shown in this service manual.

However, please note that not all components will be available as spare parts for after-sales service.

Components marked S and O are designated as spare parts for service and will be stocked at the spare parts centers.

Components marked X and R are not designated as spare parts for after sales service, and will not be stocked at the spare parts centers.

UNIT-NAME	! C	REF-NO	PARTS-NO	PARTS-NAME	SUFFIX&MODEL
					BZG-3
					BNF
	O	SC1001	8B-ZG3-261-110	SPR-P, CD HOLDER SUPORT	a
	O	SC1002	8B-ZG3-232-210	CLAMP, BZG-3	a
	O	SC1003	8B-ZG3-213-010	LEVER, CD HOLDER	a
	O	SC1004	8B-ZG3-215-210	LEVER, CD L	a
	O	SC1005	8B-ZG3-256-310	SPR-E, CD LEVER	a
	O	SC1006	8B-ZG3-214-010	LEVER, CD R	a
	O	SC1007	8B-ZG3-211-210	LEVER, CD UP HOLDER	a
	O	SC1008	8B-ZG3-212-110	LEVER, CD ROLLER	a
	O	SC1009	8B-ZG3-225-010	GEAR, ROLLER	a
	O	SC1010	8A-ZGA-261-010	ROLLER, RUBBER	a
	O	SC1011	8B-ZG3-241-110	SHAFT, ROLLER	a
	O	SC1012	8B-ZG3-252-010	SPR-T, ROLLER	a
	O	SC1013	8B-ZG3-231-010	TURN TABLE, BZG-3	a
	O	SC1014	8B-ZG3-201-210	CHAS ASSY, BZG-3	a
	X	SC1014a	8B-ZG3-284-010	SHAFT, FLOAT FRONT	a
	X	SC1014b	8B-ZG3-202-210	CHAS ASSY, OUT-SERT	a
	X	SC1014c	8B-ZG3-203-210	CHAS, MAIN	a
	X	SC1014d	8B-ZG3-285-010	SHAFT, GEAR DIR	a
	O	SC1015	8B-ZG3-250-010	SPR-T, CLAMP	a
	O	SC1016	8B-ZG3-253-010	SPR-T, CD SENSOR	a
					BZG-3
					BNF
	O	SC1017	87-A92-091-010	MOT, M25E-4	a
	O	SC1018	8B-ZG3-220-010	GEAR, MOT	a
	O	SC1019	87-A92-092-010	MOT, M25E-10	a
	O	SC1020	8B-ZG3-209-110	LEVER ASSY, MODE CH	a
	X	SC1020a	8B-ZG3-210-110	LEVER, MODE CH	a
	X	SC1020b	8B-ZG3-283-010	SHAFT, GEAR 3 DIR	a
	O	SC1021	8B-ZG3-216-010	LEVER ASSY, GEAR HOLDER	a
	X	SC1021a	8B-ZG3-217-010	LEVER, GEAR HOLDER	a
	X	SC1021b	8B-ZG3-224-010	GEAR, SIDE	a
	X	SC1021c	8B-ZG3-226-010	GEAR, WORM ROLLER	a
	X	SC1021d	8B-ZG3-227-010	GEAR, WORM WHL ROLLER	a
	X	SC1021e	8B-ZG3-280-010	SHAFT, GEAR WORM ROLLER	a
	X	SC1021f	8B-ZG3-281-010	SHAFT, GEAR W WHL ROLLER	a
	X	SC1021g	8B-ZG3-282-010	SHAFT, GEAR SIDE	a
	O	SC1022	8B-ZG3-221-010	GEAR, CONNECT	a
	O	SC1023	8B-ZG3-223-010	GEAR, IDL DIR	a
	O	SC1024	8B-ZG3-222-010	GEAR, 3 DIR	a
	O	SC1025	8B-ZG3-230-010	GEAR, CAM	a
	O	SC1026	8B-ZG3-251-210	SPR-T, CAM	a
	O	SC1027	8B-ZG3-207-010	LEVER, DIR DOWN	a
					BZG-3
					BNF
	O	SC1028	87-A92-094-010	SW, PUSH 2-1 ESE11SF1XQ	a
	O	SC1029	8B-ZG3-229-010	GEAR, WHL SLD	a
	O	SC1030	8B-ZG3-218-010	HLDR, FLOAT REAR	a
	O	SC1031	8B-ZG3-246-010	OIL-DMPR, BZG-3 R	a
	O	SC1032	8B-ZG3-243-010	OIL-DMPR, BZG-3	a
	O	SC1033	8B-ZG3-206-110	LEVER, DIR UP	a
	O	SC1034	8B-ZG3-205-110	LEVER, DIR	a
	O	SC1035	8B-ZG3-255-010	SPR-E, DIR	a
	O	SC1036	8B-ZG3-260-010	SPR-P, LEAD STOP	a
	O	SC1037	8B-ZG3-228-010	GEAR, SLD	a
	O	SC1038	8B-ZG3-240-010	SHAFT, LEAD JVC	a
	O	SC1039	87-A92-093-010	PICKUP, OPTIMA720 JVC	a
	O	SC1040	8B-ZG3-242-210	HLDR, LEAD	a
	O	SC1041	8B-ZG3-263-010	SPR-P, LEAD	a
	O	SC1042	8B-ZG3-247-110	LEVER, LEAD	a
	O	SC1043	8B-ZG3-262-010	SPR-P, PIC UP	a
	O	SC1044	8B-ZG3-607-010	PWB, FLEX PIC 2	a
	O	SC1045	8B-ZG3-258-010	SPR-E, FLOAT FL	a
	O	SC1046	8B-ZG3-266-010	SPR-E, FLOAT RR	a
	O	SC1047	8B-ZG3-267-010	SPR-E, FLOAT RL	a
					BZG-3
					BNF
	O	SC1048	8B-ZG3-257-010	SPR-E, FLOAT FR	a
	O	SC1049	8B-ZG3-290-710	CHAS ASSY, HLDR BNF	a
	O	SC1049a	8B-ZG3-204-510	CHAS, HOLDER	a
	X	SC1049b	8B-ZG3-291-210	SHAFT, SUPPORT A	a
	X	SC1049c	8B-ZG3-292-210	SHAFT, SUPPORT B	a
	X	SC1050	8B-ZG3-602-010	PWB, SUB 35M	a
	X	SC1051	8B-ZG3-605-010	WIRE, CD SENSOR 3P	a
	O	SC1052	8A-ZGA-265-010	SH, 4.5-2.1-0.25 W/O ADH	a
	O	SC1053	8B-ZG3-268-010	SPR-E, PULL FRONT	a
	X	SC1054	8B-ZG3-604-110	WIRE, LIMT 2P	a
	O	SC1055	87-B10-379-010	W-P, 1.785-3-0.5	a
	O	SC1A	87-357-503-310	VT2+1.4-2	a
	O	SC1B	8B-ZG3-245-010	S-SCREW, CD HLDR	a
	O	SC1C	87-067-393-010	S-SCREW, +1.4-1.4	a
	O	SC1D	87-267-523-310	V+1.7-2	a
	O	SC1E	87-B10-361-010	W-P, 1.43-3-0.25 SLIT	a
	O	SC1F	87-571-032-410	VIT+2-3	a
	O	SC1G	87-067-430-010	VT2+1.4-5 SWCH/CR BLK HL	a
	O	SC1H	87-351-527-310	VT2+1.7-3	a
	O	SC1I	88-ZG8-435-010	S-SCREW, VIT+2-4 PREC	a

ACCESSORIES PARTS LIST

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UNIT-NAME	! C	REF-NO	PARTS-NO	PARTS-NAME	SUFFIX&MODEL
					CDC-Z127
					YUSF
PACKING DU	X	1	87-B40-087-010	BAG,PV 0.04-250-350 PL	a
PACKING DU	X	2	8C-KCH-855-010	CTN,OUTER 127 YUSF	a
PACKING DU	X	3	8C-KCH-853-010	CTN,PRINTED 127 YUSF	a
PACKING DU	X	4	8C-KCH-851-010	CUSHION,LEFT AIS	a
PACKING DU	X	5	8C-KCH-852-010	CUSHION,RIGHT AIS	a
PACKING DU	X	6	8C-KCH-854-010	PAD,B	a
PRINTED DU	X	7	87-B40-085-010	BAG,PV 0.04-200-350 PL	a
PRINTED DU	O	8	8C-KCG-911-010	IB,INST YU/YUC/YL(ESFP) F	a
PRINTED DU	O	9	8C-KCH-901-010	IB,YU(3L) F Z127	a
PRINTED DU	X	10	8B-KCF-904-110	SH,CD-R/RW YU,YL,YH,Y (7L) -I	a
PRINTED DU	X	11	87-B50-055-010	WARR-CARD,USA CUST/CAR AUDIO	a
ACCESSORY	X	12	87-B40-178-010	BAG,PV 0.04-100-250	a
ACCESSORY	X	13	87-B40-179-010	BAG,PV 0.04-50-100	a
ACCESSORY	O	14	8C-KCG-631-010	CONN ASSY,16P RENEWVERSION	a
ACCESSORY	O	15	8Z-KC1-231-110	HLDR,HALF -C	a
ACCESSORY	O	16	8Z-KC1-235-010	HLDR,REAR MTG	a
ACCESSORY	O	17	8Z-KC1-232-010	KEY,REMOVE -C	a
ACCESSORY	O	18	87-B10-141-010	NUT,5 TYPE-2	a
ACCESSORY	O	19	8Z-KC1-250-010	S-SCREW,HEXAGON	a
ACCESSORY	O	20	87-B10-144-010	W,5.2-10-0.5	a
					CDC-Z127
					YUSF
ACCESSORY	O	21	87-B10-145-010	W-SPR,5.3-8.5-1.5	a
ACCESSORY	O	22	8Z-KC1-244-010	S-SCREW,5*6 TH+ TAPPING ST	a
ACCESSORY	O	23	87-B10-143-010	UT1+5-15 W/O SLOT	a

OTHERS PARTS LIST

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UNIT-NAME	! C	REF-NO	PARTS-NO	PARTS-NAME	SUFFIX&MODEL
					BZG-3
					BNF
ASSY CODE	X		M8-BZG-391-040	BZG-3 BNF	a
	X		8B-ZG3-248-110	SH, CLAMP	a
	X		8B-ZG3-270-010	SH, DUMP	a
	X		8B-ZG3-244-210	SH, LVR CD HLDR	a

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