

SERVICE MANUAL

COMPACT DISC
STEREO SYSTEM

BASIC TAPE MECHANISM : 2ZM-1 YR9NC / YR11NC
BASIC CD MECHANISM : 3ZG-3 E3NC

SYSTEM	TYPE	TAPE MECHANISM	CD MECHANISM	REMOTE CONTROLLER
XR-M200	LH, U, K, HA, HR, HS	2ZM-1 YR9NC	3ZG-3 E3NC	RC-AAT11
XR-M200	G	2ZM-1 YR11NC		
XR-M201	EZ	2ZM-1 YR9NC		

- This Service Manual is the "Revision Publishing" and replaces "Simple Manual" XR-M200 <LH,U,K,HA,HR,HS> / XR-M201 <EZ> (S/M Code No. 09-004-425-1T1).
- This Service Manual does not include "TAPE MECHANISM EXPLODED VIEW & PARTS LIST" for 2ZM-1 YR11NC. This items will be issued in the next Supplement.

aiwa

S/M Code No. 09-006-425-1R1

REVISION

DATA

SPECIFICATIONS

Main unit XR-M200/201

<FM Tuner section>

Tuning range 87.5 MHz to 108 MHz
Usable sensitivity (IHF) **LH,U,HA,HR:** 13.2 dBf
EZ,K,HS,G: 16.8 dBf
Antenna terminal 75 ohms (unbalanced)

<AM Tuner section> (LH,U,HA,HR only)

Tuning range **LH,U,HA:**
 530 kHz to 1710 kHz (10 kHz step)
 531 kHz to 1602 kHz (9 kHz step)
HR:
 531 kHz to 1602 kHz (9 kHz step)
 530 kHz to 1710 kHz (10 kHz step)
Usable sensitivity 350 μ V/m
Antenna Loop antenna

<MW Tuner section> (EZ,K,HS,G only)

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

<LW Tuner section> (EZ,K,HS,G only)

Tuning range 144 kHz to 290 kHz
Usable sensitivity 1400 μ V/m
Antenna Loop antenna

<Amplifier section>

Mid-high frequency amplifier

Power output **LH,HA,HR:**
 Rated: 10 W + 10 W
 (16 ohms, T.H.D. 10 %, 1 kHz)
 Reference: 8 W + 8 W
 (16 ohms, T.H.D. 1 %, 1 kHz)
U:
 8 W + 8 W (200 Hz – 20 kHz,
 T.H.D. less than 1 %, 16 ohms)
 10 W + 10 W (1 kHz,
 T.H.D. less than 10 %, 16 ohms)
EZ,K,HS,G:
 Rated: 8 W + 8 W (16 ohms,
 T.H.D. 1 %, 1 kHz / DIN 45500)
 Reference: 10 W + 10 W (16 ohms,
 T.H.D. 10 %, 1 kHz / DIN 45324)
Total harmonic distortion 0.15 %
 (5 W, 1 kHz, 16 ohms, DIN AUDIO)
EZ,K,HS,G only:
 DIN MUSIC POWER: 20 W + 20 W

Low frequency amplifier

Power output **LH,HA,HR:**
 Rated: 30 W + 30 W
 (6 ohms, T.H.D. 10 %, 75 Hz)
 Reference: 25 W + 25 W
 (6 ohms, T.H.D. 1 %, 75 Hz)
U:
 25 W + 25 W (35 Hz – 200 Hz,
 T.H.D. less than 1 %, 6 ohms)
 30 W + 30 W (75 Hz,
 T.H.D. less than 10 %, 6 ohms)
EZ,K,HS,G
 Rated: 25 W + 25 W (6 ohms,
 T.H.D. 1 %, 75 Hz / DIN 45500)
 Reference: 30 W + 30 W (6 ohms,
 T.H.D. 10 %, 75 Hz / DIN 45324)
Total harmonic distortion 0.15 %
 (12.5 W, 75 Hz, 6 ohms, DIN AUDIO)
EZ,K,HS,G only:
 DIN MUSIC POWER: 65 W + 65 W

Inputs

VIDEO/AUX: 0.4 V

MD: 0.4 V

Outputs

LINE OUT: 0.4 V (47 kohms load)
SPEAKERS HIGH FREQ:
 accepts speakers of 16 ohms or more
SPEAKERS LOW FREQ:
 accepts speakers of 6 ohms or more
PHONES (stereo minijack): accepts
 headphones of 32 ohms or more

<Cassette deck section>

Track format 4 tracks, 2 channels stereo
Frequency response CrO₂ tape: 50 Hz – 16000 Hz
 Normal tape: 50 Hz – 15000 Hz
Signal-to-noise ratio 50 dB
 (CrO₂ tape peak level above 1 kHz)
Recording system AC bias
Heads Recording/playback head x 1
 Erase head x 1

<Compact disc player section>

Laser Semiconductor laser (λ =780 nm)
D/A converter 1 bit dual
Signal-to-noise ratio 75 dB (1 kHz, 0 dB)
Harmonic distortion 0.1 % (1 kHz, 0 dB)
Wow and flutter Unmeasurable

<General>

Power requirements **LH,HA,HR:** AC : 120 V/220 V – 240 V,
 switchable 50/60 Hz
U: AC : 120 V, 60 Hz
EZ,K,HS,G: AC : 230 V, 50 Hz
Power consumption **LH,HA,HR:** 95 W
U: 80 W
EZ,K,HS,G: 90 W
Dimensions of main unit
 (W x H x D) 175 x 260 x 299 mm
 (7 x 10^{1/4} x 11^{7/8} in.)
Weight of main unit 5.5 kg (12 lbs 2 oz)
Standby power consumption If the power-economizing mode is on:
 1.0 W
 If the power-economizing mode is off:
LH,HA,HR,EZ,K,HS,G: 13 W
U: 12 W

Speaker system

Cabinet type 3 way, built in subwoofer
 (magnetic shield type)
Speakers Subwoofer:
 130 mm (5^{1/8} in.) cone type
 Full range:
 100 mm (4 in.) cone type
 Super tweeter:
 20 mm (1^{3/16} in.) ceramic type
Impedance 6 ohms / 16 ohms
Output sound pressure level 86 dB/W/m
Dimensions (W x H x D) 162 x 258 x 200 mm
 (6^{1/2} x 10^{1/4} x 7^{7/8} in.)
Weight 3.2 kg (7 lbs 1 oz)

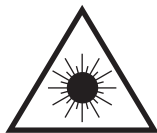
• Design and specifications are subject to change without notice.

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!

Laiteen Käyttäminen muulla kuin tässä käyttöohjeessa mainitulla tavalla saattaa altistaa käytt-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.

CAUTION

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

ATTENTION

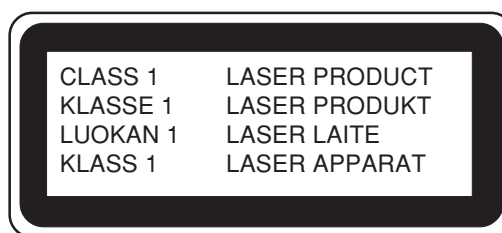
L'utilisation de commandes, réglages ou procédures autres que ceux spécifiés peut entraîner une dangereuse exposition aux radiations.

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.

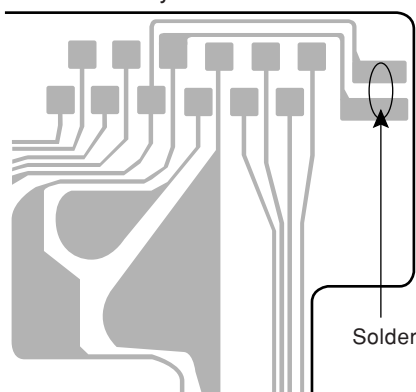


Precaution to replace Optical block (KSS – 213F)

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 the right figure.

PICKUP Assy P.C.B.



CAUTION WHEN SERVICING

The 3 FFCs connected to the Motorised Front Panel is movable with the Motorised Front Panel.

To prevent the FFCs from being trap in between the Motorised Front Panel and the Front Cabinet, the FFCs must be arrange as shown in Fig. 1.

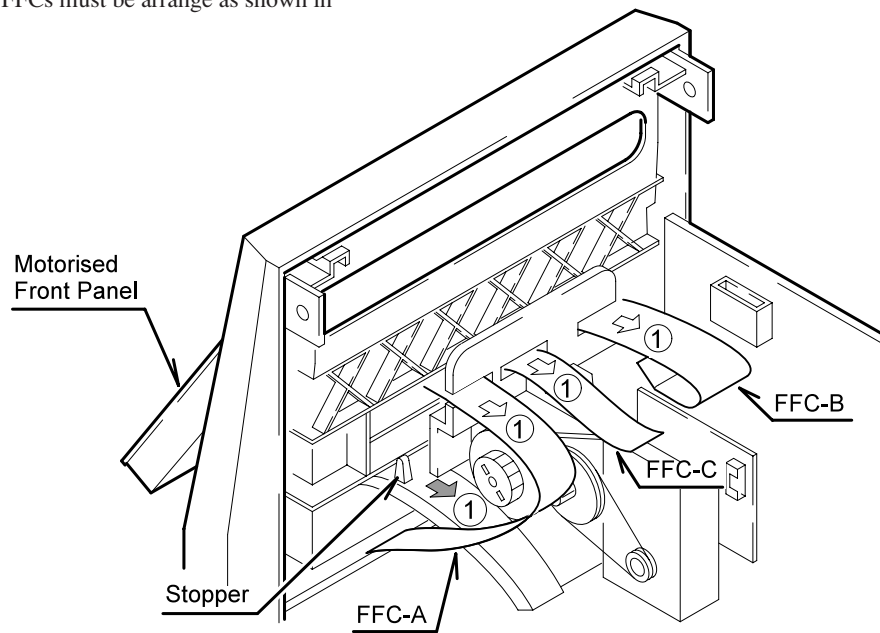


Fig - 1 Remove Slack of FFCs

1. Remove slack of FFCs

- 1) Return the Motorised Front Panel to its upright position slowly while at the same time pull the FFCs (FFC-A/-B/-C) near to the slot to remove any slack that is formed in between the Motorised Front Panel and the Front Cabinet.

Note: To remove the Motorised Front Panel, rotate GEAR, PUSHER as shown in Fig. 2.

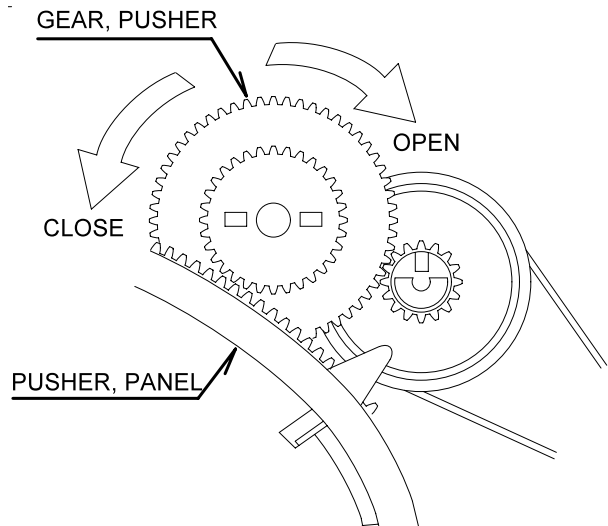


Fig - 2 GEAR, PUSHER

2. Arranging FFC-B

- 1) Fold the end of the FFC-B at an angle of 45 degrees.
- 2) Connect FFC-B to CN202 of MAIN C.B.
- 3) Put FFC-B onto the Plastic Plate to prevent it from sagging.

Note: FFC-B is easy to trap in between the CD unit and the Front Cabinet when assembling the CD unit to the set.
Arrange FFC-B as shown in Fig. 4.

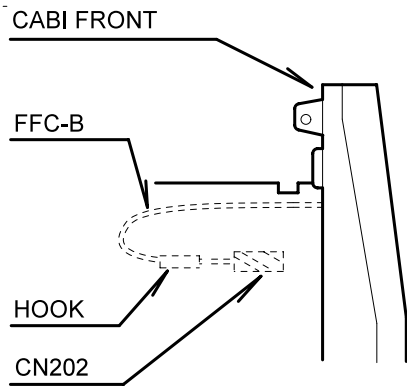


Fig - 4 FFC-B Side View

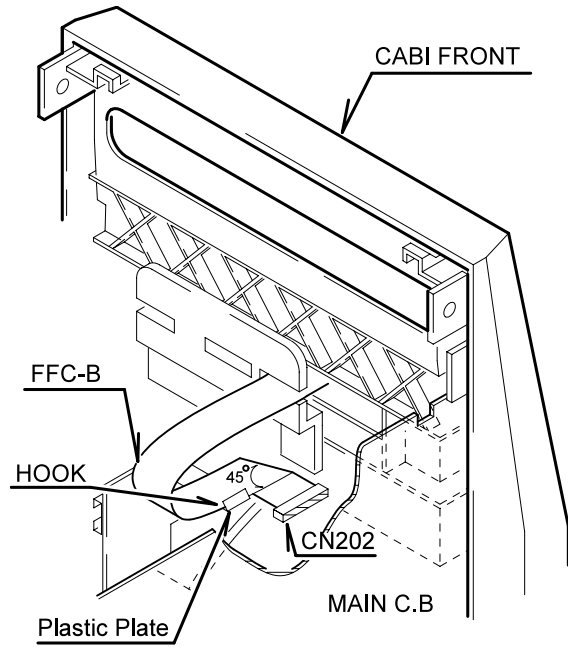


Fig - 3 FFC-B Top View

3. Assembling CD unit

- 1) Assemble CD unit to the Front Cabinet.
- 2) Connect FFC-D to CN1 of MAIN C.B. (①).
- 3) Connect FFC-C to CN4 of CD C.B. (②).
- 4) Connect the motor wire to CN600 of MOTOR C.B. (③).

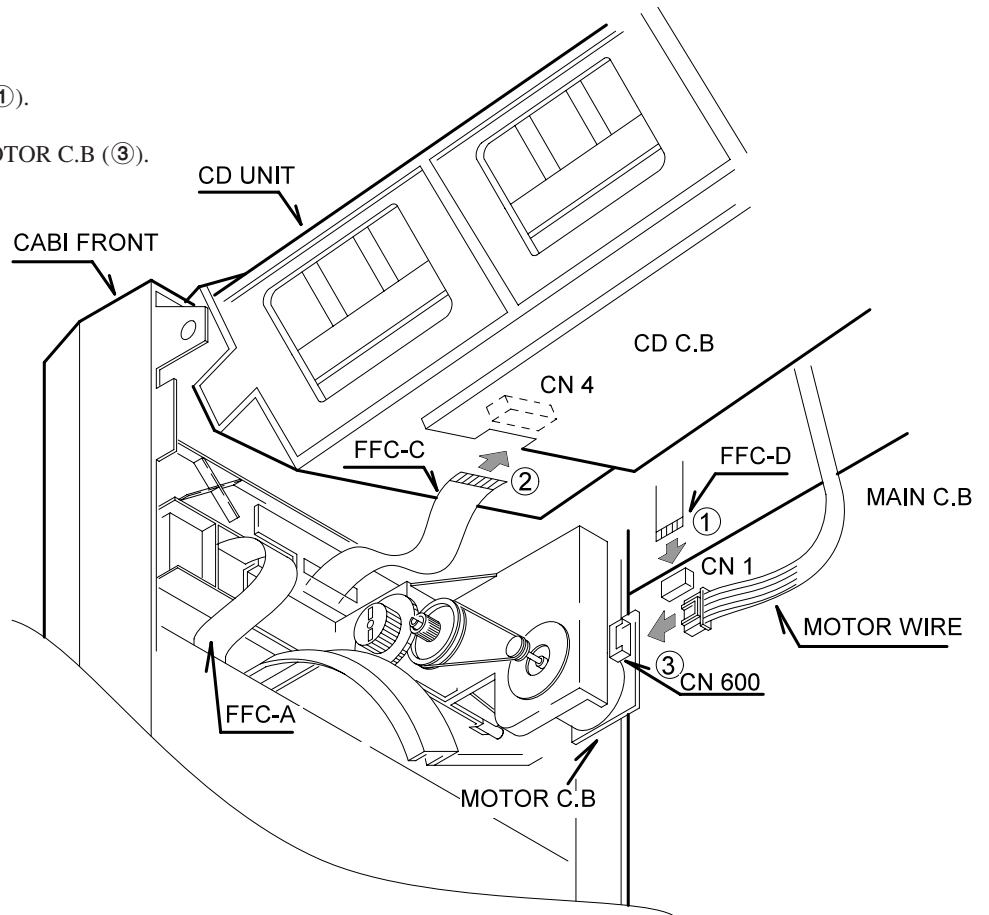


Fig - 5 Assembling CD unit

4. Arranging FFC-C

- 1) Hook the motor wire to the wire binder (①).
- 2) Let the FFC-C go through the motor wire (②).
- 3) Pull the wire binder and strap FFC-C to the CD C.B and away from the gears.

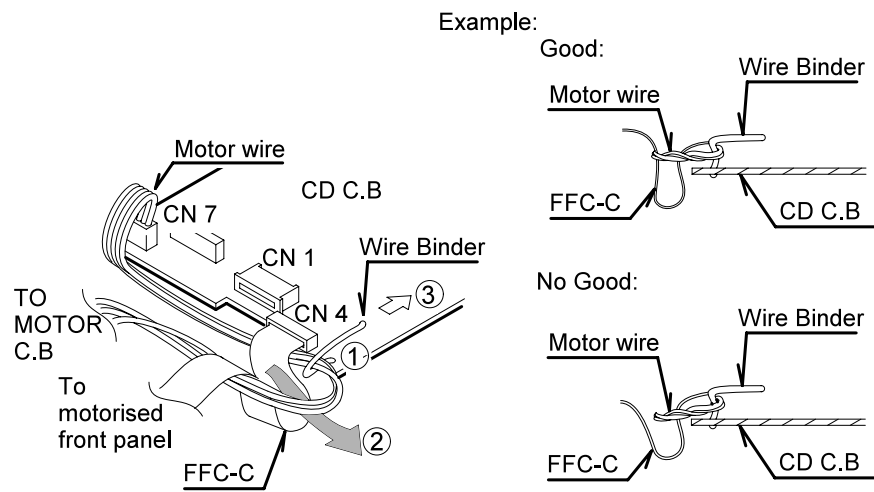


Fig - 6 Arranging FFC-C

ELECTRICAL MAIN PARTS LIST

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
IC					87-027-513-080		ZENER, HZ6B2L<EXCEPT U, LH>
					87-002-646-080		ZENER, HZ5C1<U, LH>
	87-A20-446-010		C-IC, LA9241ML				
	87-020-454-010		IC, DN6851				
	87-A20-459-010		C-IC, LC78622ED	MAIN C.B			
	87-A20-157-010		IC, TA2092N				
	87-001-536-010		IC, NJM78M05FA	C101	87-A10-520-000		CAP, E 3300-35 M SMG
				C102	87-A10-520-000		CAP, E 3300-35 M SMG
	87-070-391-040		IC, BA4558F	C103	87-A10-712-080		C-CAP, S 0.22-50 Z F
	87-001-982-010		IC, TA7291S	C104	87-A10-712-080		C-CAP, S 0.22-50 Z F
	8A-CL8-685-010		C-IC, M38258MCM-072FP<U, LH>	C105	87-A10-520-000		CAP, E 3300-35 M SMG
	8A-CL8-686-010		C-IC, M38258MCM-075FP<EXCEPT U, LH>				
	87-017-889-010		IC, NJM4558LD	C106	87-016-051-000		CAP, E 2200-35 M SMG
				C107	87-A10-712-080		C-CAP, S 0.22-50 Z F
	87-A20-914-010		IC, SPS-442-1-F	C108	87-A10-712-080		C-CAP, S 0.22-50 Z F
	87-A21-443-040		C-IC, M62495AFP	C109	87-012-140-080		CAP, 470P
	87-070-127-110		IC, LC72131D	C110	87-010-408-080		CAP, ELECT 47-50V
	87-A20-913-010		IC, LA1837NL				
	87-A20-440-040		C-IC, BU1920FS<EZ>	C111	87-010-197-080		CAP, CHIP 0.01 DM
				C112	87-010-384-080		CAP, ELECT 100-25V
				C113	87-010-381-080		CAP, ELECT 330-16V
				C116	87-010-374-080		CAP, ELECT 47-10V
				C117	87-010-403-080		CAP, ELECT 3.3-50V
TRANSISTOR							
	87-026-463-080		TR, 2SA933S				
	87-026-297-080		C-TR, DTA144TK	C118	87-010-404-080		CAP, ELECT 4.7-50V
	87-026-239-080		C-TR, DTC114TK	C119	87-010-178-080		CHIP CAP, 1000P
	89-109-521-080		TR, 2SA952K	C120	87-010-404-080		CAP, ELECT 4.7-50V
	89-318-155-080		TR, 2SC1815GR	C303	87-010-177-080		C-CAP, S 820P-50 SL
				C304	87-010-177-080		C-CAP, S 820P-50 SL
	89-213-702-010		TR, 2SB1370E				
	87-026-610-080		TR, KTC3198GR	C307	87-010-263-080		CAP, ELECT 100-10V
	89-333-317-080		TR, 2SC3331T	C308	87-010-263-080		CAP, ELECT 100-10V
	87-A30-076-080		C-TR, 2SC3052F	C311	87-010-195-080		C-CAP, S 0.068-25 F
	87-026-211-080		C-TR, DTA144EK	C312	87-010-195-080		C-CAP, S 0.068-25 F
				C313	87-010-186-080		CAP, CHIP 4700P
	87-A30-196-080		TR, 2SC4115SRS				
	87-A30-075-080		C-TR, 2SA1235F	C314	87-010-186-080		CAP, CHIP 4700P
	87-A30-087-080		C-FET, 2SK2158	C315	87-010-374-080		CAP, ELECT 47-10V
	89-327-125-080		C-TR, 2SC2712GR	C317	87-010-546-080		CAP, ELECT 0.33-50V
	87-A30-257-080		C-TR, 2SD1306E	C318	87-010-546-080		CAP, ELECT 0.33-50V
				C321	87-010-405-080		CAP, ELECT 10-50V
	87-A30-086-070		C-TR, CSD1306E<U, LH>				
	87-A30-190-080		TR, CC5551	C340	87-010-197-080		CAP, CHIP 0.01DM<K, EZ, HS, G>
	87-A30-215-010		TR, 2SD2025	C349	87-010-322-080		C-CAP, S 100P-50 CH<K, EZ, HS, G>
	87-A30-214-010		TR, 2SB1344	C350	87-010-322-080		C-CAP, S 100P-50 CH<K, EZ, HS, G>
	87-A30-106-070		C-TR, CMBT5551	C361	87-010-374-080		CAP, ELECT 47-10V
				C362	87-010-401-080		CAP, ELECT 1-50V
	87-A30-268-040		C-TR, 2SA1514K(S)				
	87-A30-484-080		C-TR, KRA102S<G>	C381	87-010-178-080		CHIP CAP, 1000P<K, EZ, HS, G>
	87-A30-074-080		C-TR, RT1P 141C<EXCEPT G>	C382	87-010-179-080		CAP, CHIP S B1200P<K, EZ, HS, G>
	87-A30-198-080		TR, KTC3199GR	C384	87-012-156-080		C-CAP, S 220P-50 CH
	89-112-965-080		TR, 2SA1296GR	C386	87-010-197-080		CAP, CHIP 0.01DM<K, EZ, HS, G>
				C393	87-010-178-080		CHIP CAP, 1000P<K, EZ, HS, G>
	87-A30-197-080		TR, KTA1267GR				
	87-026-218-080		TR, DTC144ES	C401	87-010-401-080		CAP, ELECT 1-50V
	87-A30-127-010		TR, 2SD2478	C402	87-010-401-080		CAP, ELECT 1-50V
	87-A30-126-010		TR, 2SB1616	C403	87-010-321-080		CHIP CAPACITOR, 82P (J)
	87-A30-269-040		C-FET, 2SJ461-T1	C404	87-010-321-080		CHIP CAPACITOR, 82P (J)
				C405	87-010-188-080		CAP, CHIP 6800P
	87-026-219-080		TR, DTA144ES				
	87-026-210-080		C-TR, DTC144EK	C406	87-010-188-080		CAP, CHIP 6800P
	89-327-143-080		C-TR, 2SC27140	C407	87-010-426-080		C-CAP, S 0.012-25 B
	87-A30-072-080		C-TR, RT1P144C	C408	87-010-426-080		C-CAP, S 0.012-25 B
	89-505-434-540		C-FET, 2SK543 (4/5) <K, EZ, HS, G>	C451	87-010-198-080		CAP, CHIP 0.022
				C452	87-010-382-080		CAP, ELECT 22-25V
DIODE							
	87-020-465-080		DIODE, 1SS133	C453	87-010-183-080		C-CAP, S 2700P-50 B
	87-A40-270-080		C-DIODE, MC2838	C454	87-010-183-080		C-CAP, S 2700P-50 B
	87-070-022-010		DIODE, IN5402	C455	87-010-183-080		C-CAP, S 2700P-50 B
	87-A40-455-090		DIODE, RL203 GW	C456	87-010-197-080		CAP, CHIP 0.01 DM
	87-A40-206-080		ZENER, UZ10BSC	C458	87-010-178-080		CHIP CAP, 1000P
				C459	87-010-175-080		CAP, 560P
	87-A40-906-080		C-DIODE, DCC010<G>	C461	87-012-158-080		C-CAP, S 390P-50 CH
	87-A40-313-080		C-DIODE, MC 2840<EXCEPT G>	C462	87-012-158-080		C-CAP, S 390P-50 CH
	87-A40-488-080		DIODE, 1SS244	C501	87-010-546-080		CAP, ELECT 0.33-50V
	87-002-693-080		C-DIODE, 1SS357	C502	87-010-546-080		CAP, ELECT 0.33-50V
	87-A40-350-080		ZENER, MTZJ 4.7C<EXCEPT U, LH>	C503	87-010-193-080		CHIP CAPACITOR, 0.033
				C504	87-010-193-080		CHIP CAPACITOR, 0.033
	87-A40-745-080		ZENER, UZ4.7BSA<U, LH>	C505	87-010-184-080		CHIP CAPACITOR, 3300P (K)
	87-A40-739-080		ZENER, UZ2.7BSA	C506	87-010-184-080		CHIP CAPACITOR, 3300P (K)
	87-027-349-080		ZENER, HZ6A1L	C507	87-010-403-080		CAP, ELECT 3.3-50V

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
C508	87-010-403-080		CAP,ELECT 3.3-50V	C761	87-010-196-080		CHIP CAPACITOR,0.1-25
C509	87-010-322-080		C-CAP,S 100P-50 CH	C762	87-010-197-080		CAP,CHIP 0.01 DM
C510	87-010-322-080		C-CAP,S 100P-50 CH	C763	87-010-194-080		CAP,CHIP 0.047
C511	87-010-186-080		CAP,CHIP 4700P	C764	87-010-319-080		C-CAP,S 56P-50 CH<HR,U,HA,LH>
C512	87-010-186-080		CAP,CHIP 4700P	C765	87-010-197-080		CAP,CHIP 0.01 DM
C513	87-010-403-080		CAP,ELECT 3.3-50V	C766	87-010-197-080		CAP,CHIP 0.01 DM
C514	87-010-403-080		CAP,ELECT 3.3-50V	C767	87-010-405-080		CAP,ELECT 10-50V
C515	87-010-260-080		CAP,ELECT 47-25V	C768	87-010-197-080		CAP,CHIP 0.01 DM
C516	87-010-260-080		CAP,ELECT 47-25V	C769	87-010-408-080		CAP,ELECT 47-50V
C517	87-012-156-080		C-CAP,S 220P-50 CH	C770	87-015-821-080		C-CAP,0.047
C518	87-012-156-080		C-CAP,S 220P-50 CH	C771	87-010-407-080		CAP,ELECT 33-50V
C519	87-010-322-080		C-CAP,S 100P-50 CH	C772	87-010-194-080		CAP,CHIP 0.047
C520	87-010-322-080		C-CAP,S 100P-50 CH	C773	87-010-196-080		CHIP CAPACITOR,0.1-25
C521	87-010-993-080		C-CAP,S 0.056-25 B	C774	87-010-263-080		CAP,ELECT 100-10V
C522	87-010-993-080		C-CAP,S 0.056-25 B	C775	87-010-421-080		CAP,ELECT 4.7-50V
C523	87-010-196-080		CHIP CAPACITOR,0.1-25	C776	87-010-197-080		CAP,CHIP 0.01 DM
C524	87-010-196-080		CHIP CAPACITOR,0.1-25	C777	87-010-400-080		CAP,ELECT 0.47-50V
C525	87-010-188-080		CAP,CHIP 6800P<K,EZ,HS,G>	C778	87-010-071-080		CAP,ELECT 1-50 M 5L SRE
C526	87-010-188-080		CAP,CHIP 6800P<K,EZ,HS,G>	C779	87-010-401-080		CAP,ELECT 1-50V
C528	87-010-197-080		CAP,CHIP 0.01 DM	C780	87-010-196-080		CHIP CAPACITOR,0.1-25
C530	87-010-196-080		CHIP CAPACITOR,0.1-25	C781	87-010-405-080		CAP,ELECT 10-50V
C531	87-010-196-080		CHIP CAPACITOR,0.1-25	C782	87-010-405-080		CAP,ELECT 10-50V
C532	87-010-196-080		CHIP CAPACITOR,0.1-25	C783	87-010-197-080		CAP,CHIP 0.01 DM
C550	87-010-177-080		C-CAP,S 820P-50 SL<K,EZ,HS,G>	C784	87-010-197-080		CAP,CHIP 0.01 DM
C551	87-010-177-080		C-CAP,S 820P-50 SL<K,EZ,HS,G>	C785	87-010-403-080		CAP,ELECT 3.3-50V
C563	87-010-260-080		CAP,ELECT 47-25V	C786	87-010-403-080		CAP,ELECT 3.3-50V
C571	87-010-805-080		CAP,S 1-16	C787	87-010-184-080		CHIP CAPACITOR,3300P(K)
C572	87-010-805-080		CAP,S 1-16	C788	87-010-184-080		CHIP CAPACITOR,3300P(K)
C600	87-010-184-080		CHIP CAPACITOR,3300P(K)	C789	87-010-179-080		CAP,CHIP S B1200P
C601	87-010-180-080		C-CAP,CER 1500P	C790	87-010-179-080		CAP,CHIP S B1200P
C602	87-010-180-080		C-CAP,CER 1500P	C791	87-010-405-080		CAP,ELECT 10-50V
C609	87-010-213-080		C-CAP,S 0.015-50 B	C793	87-010-177-080		C-CAP,S 820P-50 SL<HR,U,HA,LH>
C610	87-010-213-080		C-CAP,S 0.015-50 B	C793	87-010-179-080		CAP,CHIP S B1200P<K,EZ,HS,G>
C611	87-010-545-080		CAP,ELECT 0.22-50V	C794	87-010-406-080		CAP,ELECT 22-50
C612	87-010-545-080		CAP,ELECT 0.22-50V	C795	87-010-596-080		CAP,S 0.047-16
C613	87-010-545-080		CAP,ELECT 0.22-50V	C796	87-010-403-080		CAP,ELECT 3.3-50V
C614	87-010-545-080		CAP,ELECT 0.22-50V	C797	87-010-180-080		C-CAP,CER 1500P<HR,K,EZ,HS,G>
C615	87-010-154-080		CAP,CHIP 10P	C797	87-010-182-080		C-CAP,S 2200P-50 B<U,HA,LH>
C616	87-010-408-080		CAP,ELECT 47-50V	C798	87-010-180-080		C-CAP,CER 1500P<HR,K,EZ,HS,G>
C617	87-010-408-080		CAP,ELECT 47-50V	C798	87-010-182-080		C-CAP,S 2200P-50 B<U,HA,LH>
C625	87-010-405-080		CAP,ELECT 10-50V	C799	87-010-194-080		CAP,CHIP 0.047
C626	87-010-405-080		CAP,ELECT 10-50V	C803	87-A10-207-080		CAP,TCS 0.01-50KBUP050<K,EZ,HS,G>
C636	87-010-194-080		C-CAP,S 0.047-25ZF<G>	C814	87-010-197-080		CAP,CHIP 0.01 DM
C637	87-010-194-080		C-CAP,S 0.047-25ZF<G>	C820	87-010-408-080		CAP,ELECT 47-50V
C661	87-010-178-080		CHIP CAP,1000P<K,EZ,HS,G>	C821	87-010-197-080		CAP,CHIP 0.01 DM
C690	87-010-263-080		CAP,ELECT 100-10V	C822	87-010-197-080		CAP,CHIP 0.01 DM
C691	87-018-137-080		CAPACITOR,3300P	C823	87-010-197-080		CAP,CHIP 0.01 DM
C697	87-010-378-080		CAP,ELECT 10-16V	C824	87-010-197-080		CAP,CHIP 0.01 DM
C698	87-010-263-080		CAP,ELECT 100-10V	C828	87-010-196-080		CHIP CAPACITOR,0.1-25
C699	87-010-194-080		CAP,CHIP 0.047	C829	87-010-196-080		CHIP CAPACITOR,0.1-25
C701	87-010-381-080		CAP,ELECT 330-16V	C861	87-012-156-080		C-CAP,S 220P-50 CH<EZ>
C702	87-010-404-080		CAP,ELECT 4.7-50V	C869	87-010-197-080		CAP,CHIP 0.01 DM<EZ>
C703	87-010-197-080		CAP,CHIP 0.01 DM	C871	87-010-184-080		CHIP CAPACITOR,3300P(K)<K,EZ,HS,G>
C704	87-010-197-080		CAP,CHIP 0.01 DM	C872	87-012-156-080		C-CAP,S 470P-50 J CH<EZ>
C710	87-010-322-080		C-CAP,S 100P-50 CH	C873	87-012-140-080		CAP,470P<EZ>
C711	87-010-112-080		CAP,ELECT 100-16V	C874	87-010-405-080		CAP,ELECT 10-50V<EZ>
C712	87-010-196-080		CHIP CAPACITOR,0.1-25	C875	87-010-196-080		CHIP CAPACITOR,0.1-25<EZ>
C713	87-010-197-080		CAP,CHIP 0.01 DM	C876	87-010-405-080		CAP,ELECT 10-50V<EZ>
C714	87-010-197-080		CAP,CHIP 0.01 DM	C877	87-010-197-080		CAP,CHIP 0.01 DM<EZ>
C715	87-010-322-080		C-CAP,S 100P-50KB<K,EZ,HS,G>	C878	87-010-316-080		C-CAP,S 33P-50 CH<EZ>
C721	87-010-312-080		C-CAP,S 15P-50 CH	C879	87-010-314-080		C-CAP,S 22P-50V<EZ>
C722	87-010-312-080		C-CAP,S 15P-50 CH	C940	87-010-197-080		CAP,CHIP 0.01DM<K,EZ,HS,G>
C723	87-010-178-080		CHIP CAP,1000P	C942	87-010-151-080		C-CAP,S 7P-50 CH<K,EZ,HS,G>
C725	87-010-178-080		CHIP CAP,1000P	C947	87-010-197-080		CAP,CHIP 0.01DM<K,EZ,HS,G>
C727	87-010-196-080		CHIP CAPACITOR,0.1-25	C949	87-014-049-080		CAP,PP 470P-100 J<K,EZ,HS,G>
C728	87-010-248-080		CAP,ELECT 220-10V	C952	87-010-197-080		CAP,CHIP 0.01DM<K,EZ,HS,G>
C755	87-010-197-080		CAP,CHIP 0.01 DM	C957	87-010-147-080		C-CAP,S 3P-50 CH<K,EZ,HS,G>
C756	87-010-197-080		CAP,CHIP 0.01 DM	C958	87-010-197-080		CAP,CHIP 0.01DM<K,EZ,HS,G>
C757	87-010-318-080		C-CAP,S 47P-50 CH	C959	87-010-196-080		CHIP CAPACITOR,0.1-25
C758	87-010-149-080		C-CAP,S 5P-50 CH	C960	87-010-196-080		CHIP CAPACITOR,0.1-25

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
C961	87-010-152-080		C-CAP, S 8P-50 CH<HR, U, HA, LH>	S314	87-A90-095-080		SW, TACT EVQ11G04M
C962	87-010-401-080		CAP, ELECT 1-50V<K, EZ, HS, G>	S316	87-A90-095-080		SW, TACT EVQ11G04M
CF801	87-008-261-010		FLTR, CF SFE10.7MA5<HR, U, HA, LH>	S318	87-A90-095-080		SW, TACT EVQ11G04M
CF801	87-008-423-010		FLTR, CF SFE10.7MS3G-A<K, EZ, HS, G>	S319	87-A90-095-080		SW, TACT EVQ11G04M
CF802	82-785-747-010		CF, MS2 GHY R<K, EZ, HS, G>	X301	87-A70-124-080		VIB, CER 8.0MHZ
CF802	87-008-261-010		FLTR, CF SFE10.7MA5<HR, U, HA, LH>				
CN1	87-099-210-010		CONN, 5P 6216 H	FRONT SEC C.B			
CN202	87-A61-250-010		CONN, 25P V				
CN203	87-009-030-010		CONN, 2P PH M	C301	87-010-178-080		CHIP CAP, 1000P
CN351	87-A60-624-010		CONN, 7P V 2MM JMT	C304	87-010-405-040		CAP, E 10-50
CN603	87-A60-996-010		CONN, 13P V BLK TAC-L13X-A3	C340	87-010-197-080		CAP, CHIP 0.01DM
FB502	87-003-223-080		FERRITE BEAD BL02RN2<K, EZ, HS, G>	CN302	8A-CL8-703-010		CONN ASSY, 9P DECK<EXCEPT U, LH>
FFC101	8A-CL9-671-010		F-CABLE, 9P 2.5	CN302	87-CL4-704-010		CONN ASSY, 9P DECK<U, LH>
FFE801	A8-6ZA-19C-170		6ZA-1 YFEENC<K, EZ, HS, G>	CN305	87-A61-248-010		CONN, 22P H
FFE801	A8-8ZA-193-070		8ZA-1 YFEUNC<HR, U, HA, LH>	CN306	8A-CL8-640-010		CONN ASSY, 2P
J501	87-A61-237-010		JACK, 3.5 ST W/O SW	LED302	87-A40-228-040		LED, SLR-342MG T31 GREEN
J541	87-A61-157-010		JACK, PIN 2P R/W/BL V(SEPA) KM	LED303	87-A40-228-040		LED, SLR-342MG T31 GREEN
J602	87-A60-885-010		JACK, PIN 6P R/W MSC	LED304	87-A40-228-040		LED, SLR-342MG T31 GREEN
J801	87-A60-202-010		TERMINAL, ANT4P MSP154V02<HR, U, HA, LH>	LED305	87-A40-228-040		LED, SLR-342MG T31 GREEN
J801	87-A60-403-010		TERMINAL, ANT2P HSP312V05<K, EZ, HS, G>	LED306	87-A40-228-040		LED, SLR-342MG T31 GREEN
L451	87-007-342-010		COIL, OSC 85K BIAS	S302	87-A90-095-080		SW, TACT EVQ11G04M
L501	87-005-366-010		COIL, 1UH	S304	87-A90-095-080		SW, TACT EVQ11G04M
L502	87-005-366-010		COIL, 1UH	S305	87-A90-095-080		SW, TACT EVQ11G04M
L770	87-005-847-080		COIL, 2.2UH (CECS)	S306	87-A90-095-080		SW, TACT EVQ11G04M
L771	87-A50-266-010		COIL, FM DET-2N (TOK)	S307	87-A90-095-080		SW, TACT EVQ11G04M
L772	88-CL4-693-010		FLTR, PCFAYH-450 (TOK)	S308	87-A90-095-080		SW, TACT EVQ11G04M
L832	87-005-847-080		COIL, 2.2UH (CECS)	S309	87-A90-095-080		SW, TACT EVQ11G04M
L861	87-005-847-080		COIL, 2.2UH (CECS) <EZ>	S315	87-A90-095-080		SW, TACT EVQ11G04M
L941	87-A50-020-010		COIL, ANT LW (COI) 252KHZ<K, EZ, HS, G>	S317	87-A90-095-080		SW, TACT EVQ11G04M
L942	87-A50-019-010		COIL, OSC LW (COI) 856KHZ<K, EZ, HS, G>	S351	87-A91-671-010		SW, RTRY JOG RE0121PVB20FINA
L981	87-NF4-650-010		COIL, AM PACK 4N (TOK) <HR, U, HA, LH>	S352	87-A91-670-010		SW, RTRY VOL
L981	87-NF4-651-110		COIL, AM PACK2N (TOM) <K, EZ, HS, G>				
PR601	87-A91-153-080		FUSE, 630MA 125V 251<U>	CD C.B			
PR601	87-026-689-080		PROTECTOR, 1A 60V 491<EXCEPT U>				
R543	87-A00-258-080		RES, M/F 0.22-1W J	C1	87-010-403-080		CAP, ELECT 3.3-50V
R544	87-A00-258-080		RES, M/F 0.22-1W J	C2	87-010-197-080		CAP, CHIP 0.01DM
R545	87-A00-258-080		RES, M/F 0.22-1W J	C3	87-010-263-080		CAP, ELECT 100-10V
R546	87-A00-258-080		RES, M/F 0.22-1W J	C4	87-010-248-080		CAP, ELECT 220-10V
TC942	87-011-253-080		TRIMER, 30P LAR<K, EZ, HS, G>	C5	87-010-197-080		CAP, CHIP 0.01DM
W101	87-A90-510-010		HLDR, WIRE 2.5-9P	C6	87-010-374-080		CAP, ELECT 47-10V
X721	87-A70-061-010		VIB, XTAL 4.500MHZ CSA-309	C7	87-012-349-080		C-CAP, S 1000P-50 CH
X861	87-A70-091-010		VIB, XTAL 4.332MHZ CSA-309<EZ>	C8	87-010-198-080		CAP, CHIP 0.022
				C9	87-010-263-080		CAP, ELECT 100-10V
				C10	87-010-263-080		CAP, ELECT 100-10V
FRONT CNTL C.B				C12	87-010-401-080		CAP, ELECT 1-50V
C309	87-010-198-080		CAP, CHIP 0.022	C13	87-010-197-080		CAP, CHIP 0.01DM
C313	87-010-071-040		CAP, E 1-50 M 5L SRE	C14	87-010-405-080		CAP, ELECT 10-50V
C314	87-A10-189-040		CAP, E 220-10	C16	87-010-545-080		CAP, ELECT 0.22-50V
C316	87-010-197-080		CAP, CHIP 0.01 DM	C17	87-012-349-080		C-CAP, S 1000P-50 CH
C319	87-010-185-080		C-CAP, S 3900P-50KB	C18	87-010-213-080		C-CAP, S 0.015-50 B
C329	87-010-198-080		CAP, CHIP 0.022	C20	87-010-193-080		CHIP CAPACITOR, 0.033
C330	87-010-318-080		C-CAP, S 47P-50 CH	C23	87-010-992-080		C-CAP, S 0.047-25 B
C331	87-010-312-080		C-CAP, S 15P-50 CH	C29	87-010-186-080		CAP, CHIP 4700P
C335	87-010-316-080		C-CAP, S 33P-50 CH	C30	87-012-156-080		C-CAP, S 220P-50 CH
C341	87-010-954-080		C-CAP, 0.22-16R	C31	87-010-545-080		CAP, ELECT 0.22-50V
C344	87-010-318-080		C-CAP, S 47P-50 CH	C32	87-010-374-080		CAP, ELECT 47-10V
CN301	87-A61-247-010		CONN, 25P H	C33	87-010-401-080		CAP, ELECT 1-50V
CN303	87-A61-249-010		CONN, 15P H	C34	87-010-182-080		C-CAP, S 2200P-50KB<U, LH>
CN304	87-A61-248-010		CONN, 22P H	C34	87-010-186-080		CAP, CHIP 4700P<EXCEPT U, LH>
FFC301	8A-CL8-704-110		FF-CABLE, 25P 1.0 240MM	C35	87-010-197-080		CAP, CHIP 0.01DM
FFC303	8A-CL8-706-010		FF-CABLE, 15P 1.0 170MM	C36	87-010-374-080		CAP, ELECT 47-10V
FFC304	8A-CL8-705-110		FF-CABLE, 22P 1.0 210MM	C37	87-010-404-080		CAP, ELECT 4.7-50V
LCD301	8A-CL8-682-010		LCD, ACL8	C38	87-010-196-080		CHIP CAPACITOR, 0.1-25
LED301	87-A40-229-040		LED, SLR-342VR TB7 RED	C39	87-012-349-080		C-CAP, S 1000P-50 CH
LED307	87-A40-831-010		LED, SELU1E10CKM-LF70 BLUE-DEF	C40	87-010-147-080		C-CAP, S 3P-50 CH
LED308	87-A40-831-010		LED, SELU1E10CKM-LF70 BLUE-DEF	C41	87-A10-294-080		CAP, M 8200P-50 J
S301	87-A90-095-080		SW, TACT EVQ11G04M	C42	87-010-314-080		C-CAP, S 22P-50V
S303	87-A90-095-080		SW, TACT EVQ11G04M	C45	87-010-196-080		CHIP CAPACITOR, 0.1-25
S310	87-A90-095-080		SW, TACT EVQ11G04M	C46	87-010-196-080		CHIP CAPACITOR, 0.1-25
S312	87-A90-095-080		SW, TACT EVQ11G04M	C47	87-010-196-080		CHIP CAPACITOR, 0.1-25<K, EZ, HS, G>

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
C48	87-010-315-080		C-CAP,S 27P-50 CH				
C50	87-012-140-080		CAP,470P	PAMP C.B			
C51	87-010-994-080		C-CAP,S 680P-50 CH				
C57	87-010-316-080		C-CAP,S 33P-50 CH	C203	87-010-400-080		CAP,ELECT 0.47-50V
C58	87-010-316-080		C-CAP,S 33P-50 CH	C204	87-010-400-080		CAP,ELECT 0.47-50V
				C207	87-010-196-080		CHIP CAPACITOR,0.1-25
				C208	87-010-196-080		CHIP CAPACITOR,0.1-25
				C209	87-010-187-080		CAP,CHIP S5600P
C59	87-010-263-080		CAP,ELECT 100-10V				
C60	87-010-196-080		CHIP CAPACITOR,0.1-25				
C61	87-010-196-080		CHIP CAPACITOR,0.1-25	C210	87-010-187-080		CAP,CHIP S5600P
C62	87-010-370-080		CAP,E 330-6.3 SME	C211	87-010-404-080		CAP,ELECT 4.7-50V
C65	87-010-404-080		CAP,ELECT 4.7-50V	C212	87-010-404-080		CAP,ELECT 4.7-50V
				C213	87-010-322-080		C-CAP,S 100P-50 CH
				C214	87-010-322-080		C-CAP,S 100P-50 CH
C66	87-010-196-080		CHIP CAPACITOR,0.1-25				
C67	87-010-263-080		CAP,ELECT 100-10V				
C68	87-010-322-080		C-CAP,S 100P-50 CH	C215	87-010-184-080		CHIP CAPACITOR,3300P(K)
C75	87-010-197-080		CAP,CHIP 0.01DM	C216	87-010-184-080		CHIP CAPACITOR,3300P(K)
C76	87-A10-102-080		CAP,E 1000-10 REA	C217	87-010-403-080		CAP,ELECT 3.3-50V
				C218	87-010-403-080		CAP,ELECT 3.3-50V
				C219	87-010-260-080		CAP,ELECT 47-25V
C77	87-010-263-080		CAP,ELECT 100-10V				
C78	87-010-197-080		CAP,CHIP 0.01DM				
C79	87-010-197-080		CAP,CHIP 0.01DM	C220	87-010-260-080		CAP,ELECT 47-25V
C80	87-010-112-080		CAP,ELECT 100-16V	C221	87-A10-946-080		C-CAP,S 220P-100 J CH<EXCEPT U,LH>
C81	87-010-405-080		CAP,ELECT 10-50V	C221	87-012-156-080		C-CAP,S 220P-50 J CH GRM<U,LH>
				C222	87-A10-946-080		C-CAP,S 220P-100 J CH<EXCEPT U,LH>
				C222	87-012-156-080		C-CAP,S 220P-50 J CH GRM<U,LH>
C82	87-010-405-080		CAP,ELECT 10-50V				
C83	87-010-181-080		CAP,CHIP S 1800P				
C84	87-010-181-080		CAP,CHIP S 1800P	C223	87-012-141-080		CHIP-CAPACITOR,0.22-16F
C90	87-010-197-080		CAP,CHIP 0.01DM	C224	87-012-141-080		CHIP-CAPACITOR,0.22-16F
C91	87-010-404-080		CAP,ELECT 4.7-50V	C225	87-010-186-080		CAP,CHIP 4700P
				C226	87-010-186-080		CAP,CHIP 4700P
				C229	87-010-544-080		CAP,ELECT 0.1-50V
C92	87-010-387-080		CAP,E 470-25 SME				
C93	87-010-197-080		CAP,CHIP 0.01DM				
C94	87-010-197-080		CAP,CHIP 0.01DM	C230	87-010-544-080		CAP,ELECT 0.1-50V
C95	87-010-197-080		CAP,CHIP 0.01 DM	C231	87-010-196-080		CHIP CAPACITOR,0.1-25
C96	87-010-221-080		CAP,ELECT 470-10V	C232	87-010-196-080		CHIP CAPACITOR,0.1-25
				C233	87-010-993-080		C-CAP,S 0.056-25 B
				C234	87-010-993-080		C-CAP,S 0.056-25 B
C97	87-010-197-080		CAP,CHIP 0.01 DM				
C98	87-012-154-080		C-CAP,S 150P-50 CH	C235	87-010-196-080		CHIP CAPACITOR,0.1-25
C99	87-010-196-080		CHIP CAPACITOR,0.1-25	C236	87-010-196-080		CHIP CAPACITOR,0.1-25
C100	87-010-196-080		CHIP CAPACITOR,0.1-25	C237	87-010-197-080		CAP,CHIP 0.01 DM
C101	87-010-322-080		C-CAP,S 100P-50 CH	C263	87-012-141-080		CHIP-CAPACITOR,0.22-16F
				C264	87-012-141-080		CHIP-CAPACITOR,0.22-16F
C102	87-010-322-080		C-CAP,S 100P-50 CH				
C103	87-010-322-080		C-CAP,S 100P-50 CH				
C104	87-010-322-080		C-CAP,S 100P-50 CH	CN201	87-A61-011-010		CONN,13P H BLK TAC-L13P-A3
C105	87-010-322-080		C-CAP,S 100P-50 CH	J201	87-A60-238-010		TERMINAL,SP 4P(MSC)
C110	87-010-196-080		CHIP CAPACITOR,0.1-25	L201	87-003-383-010		COIL,1UH-S
				L202	87-003-383-010		COIL,1UH-S
				R247	87-A00-258-080		RES,M/F 0.22-1W J
C130	87-010-197-080		CAP,CHIP 0.01 DM				
C131	87-010-112-080		CAP,ELECT 100-16V				
C140	87-010-196-080		CHIP CAPACITOR,0.1-25	R248	87-A00-258-080		RES,M/F 0.22-1W J
C141	87-010-318-080		C-CAP,S 47P-50 CH	R249	87-A00-258-080		RES,M/F 0.22-1W J
C142	87-015-819-080		CAPACITOR,0.01	R250	87-A00-258-080		RES,M/F 0.22-1W J
				R251	87-A00-258-080		RES,M/F 0.22-1W J
				R252	87-A00-258-080		RES,M/F 0.22-1W J
C143	87-010-404-080		CAP,ELECT 4.7-50V				
C145	87-010-196-080		CHIP CAPACITOR,0.1-25				
C150	87-010-263-080		CAP,ELECT 100-10V	TH201	87-A91-042-080		C-THMS,100K 55001
C151	87-010-197-080		CAP,CHIP 0.01 DM	TH202	87-A91-042-080		C-THMS,100K 55001
C152	87-010-178-080		CHIP CAP,1000P				
C302	87-010-197-080		CAP,CHIP 0.01DM	MOTOR C.B			
CN1	87-A60-248-010		CONN,16P H CFF1416				
CN3	87-A60-131-010		CONN,6P V FE	CN600	87-A60-115-010		CONN,5P H S2M-5WR
CN4	87-A61-249-010		CONN,15P H	M600	87-A91-069-010		MOT,RF-370CA15370
CN5	87-099-210-010		CONN,5P 6216 H	S600	87-036-109-010		SW,MICRO SPPB61
				S601	87-036-109-010		SW,MICRO SPPB61
CN6	87-A60-130-010		CONN,5P V FE				
CN7	8A-CL8-707-010		CONN ASSY,5P DOOR				
D150	87-A40-558-010		LED,SLZ-8128A-01-A	PT C.B			
FFC1	8A-CL8-702-010		FF-CABLE,16P 1.0 140MM				
FFC3	88-906-171-110		FF-CABLE,6P 1.25	C101	87-010-387-080		CAP,E 470-25 SME
				CN101	87-A61-110-010		CONN,9P V TID-A
FFC5	88-905-301-110		FF-CABLE,5P 300MM	F101	87-035-222-010		FUSE,1AT<K,EZ,HS,G>
FFC6	88-905-201-110		FF-CABLE,5P 1.25	F101	87-035-190-010		FUSE,2AT<HR,HA,LH>
JW61	87-A90-896-080		F-BEAD,035600STY7<K,EZ,HS,G>	F101	87-035-488-010		FUSE,3.15A 125V D UL<U>
L1	87-003-102-080		COIL,10UH				
R70	87-029-124-090		RESISTOR,FUSE 1/4W 2.2	FC101	87-033-213-080		CLAMP,FUSE
				FC102	87-033-213-080		CLAMP,FUSE
R73	87-029-361-090		FUSING RESISTOR,1/2W-3.3	PR101	87-026-690-080		FUSE,5A 125V 251<U>
R144	87-029-361-090		FUSING RESISTOR,1/2W-3.3	PR101	87-026-681-080		PROTECTOR,5A 60V 491<EXCEPT U>
SFR130	87-024-176-080		SEMI-FIXED RESISTOR,100K	PR102	87-026-690-080		FUSE,5A 125V 251<U>
X1	87-A70-046-010		VIB,XTAL 16.934MHZ				
				PR102	87-026-681-080		PROTECTOR,5A 60V 491<EXCEPT U>

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
△ PR103	87-A90-070-080		FUSE, 3.5A 125V 251<U>				
△ PR103	87-A90-473-080		PROTECTOR, 3.5A 491 60V<EXCEPT U>				
△ PR104	87-A90-070-080		FUSE, 3.5A 125V 251<U>				
△ PR104	87-A90-473-080		PROTECTOR, 3.5A 491 60V<EXCEPT U>	CN301	88-CL4-701-010		CONN ASSY, 7P RPEH<EXCEPT G>
△ PT101	8A-CL8-603-010		PT, EZ EI66-60<K, EZ, HS, G>				
							LOAD C.B
△ PT101	8A-CL8-602-010		PT, H EI66-60<HR, HA, LH>				
△ PT101	8A-CL8-601-010		PT, U EI66-60<U>	CON6	87-099-210-010		CONN, 5P H BLK 6216
△ PT102	8A-NF8-662-010		PT, SUB ANF-8 (E) <K, EZ, HS, G>	M1	87-045-305-010		MOT, RF-500TB
△ PT102	8A-NF8-673-010		PT, SUB ANF-8 (H) KAMI<HR, HA, LH>	SW1	87-036-110-010		SW, MICRO SPPB62
△ PT102	8A-NF8-661-010		PT, SUB ANF-8 (U) <U>	SW2	87-036-110-010		SW, MICRO SPPB62
△ RY101	87-A91-281-010		RELAY, AC DC12V OSASS212DM5<HR, HA, LH>				
△ RY101	87-A90-976-010		RELAY, AC12VSDT-S-112LMR<U, K, EZ, HS, G>				
△ SW101	87-A90-234-010		SW, SL 1-2-2 SW2201<HR, HA, LH>				
△ T101	87-A60-317-010		TERMINAL, 1P MSC				
△ T102	87-A60-317-010		TERMINAL, 1P MSC				
							DRIVE C.B
				CON3	87-A60-086-010		CONN, 06P H 6216
				M20	87-045-358-010		MOT, RF-310TA 43
				M21	87-045-363-010		MOT, MDN4RA3ET
				SW1	87-A90-042-010		SW, LEAF MSW-17310MVPO
							HEAD C.B<G ONLY>
				CN301	88-CL4-701-010		CONN ASSY, 7P RPEH<G>
DECK C.B							
CON1	87-009-352-010		CONN, 9P H WHT PH				
SFR1	87-024-581-010		SFR, 3.3K H KVSF637A				
SOL2	82-ZM3-628-010		SOL ASSY, 23 SO				
SW2	87-036-110-010		SW, MICRO SPPB62				
SW3	87-036-110-010		SW, MICRO SPPB62				
SW4	87-036-110-010		SW, MICRO SPPB62				
SW5	87-036-110-010		SW, MICRO SPPB62				
SW6	87-A90-248-010		SW, MICRO ESE11SH2CXQ				
W1	82-ZM1-625-010		RBN-CORD, 4P-55				

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



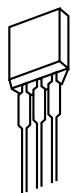
A
抵抗部品コード
Resistor Code

桁表示
Figure
抵抗値
Value of resistor

チップ抵抗
Chip resistor

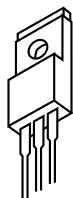
容量 Wattage	種類 Type	許容誤差 Tolerance	記号 Symbol	寸法/Dimensions (mm)			抵抗コード : A Resistor Code : A	
				外形/Form	L	W		t
1/16W	1005	± 5%	CJ		1.0	0.5	0.35	104
1/16W	1608	± 5%	CJ		1.6	0.8	0.45	108
1/10W	2125	± 5%	CJ		2	1.25	0.45	118
1/8W	3216	± 5%	CJ		3.2	1.6	0.55	128

TRANSISTOR ILLUSTRATION



E C B

2SA933
2SC4115
DTA144ES
DTC144ES
KTA1267
KTC3199



B C E

2SB1344
2SB1370
2SB1616
2SD2025
2SD2478



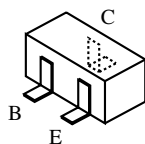
E C B

2SA1296
2SC1815
KTC3198



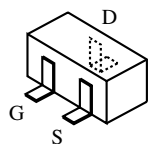
E C B

2SA952
CC5551



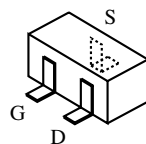
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2SA1235 DTA144EK
2SA1514 DTA144TK
2SC2712 DTC114TK
2SC2714 DTC144EK
2SC3052 KRA102S
2SD1306 RT1P141C
CMBT5551 RT1P144C
CSD1306



D
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2SJ461
2SK2158



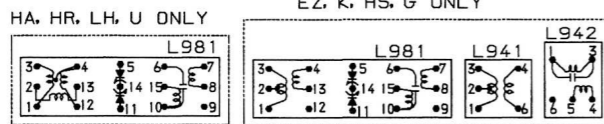
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2SK543

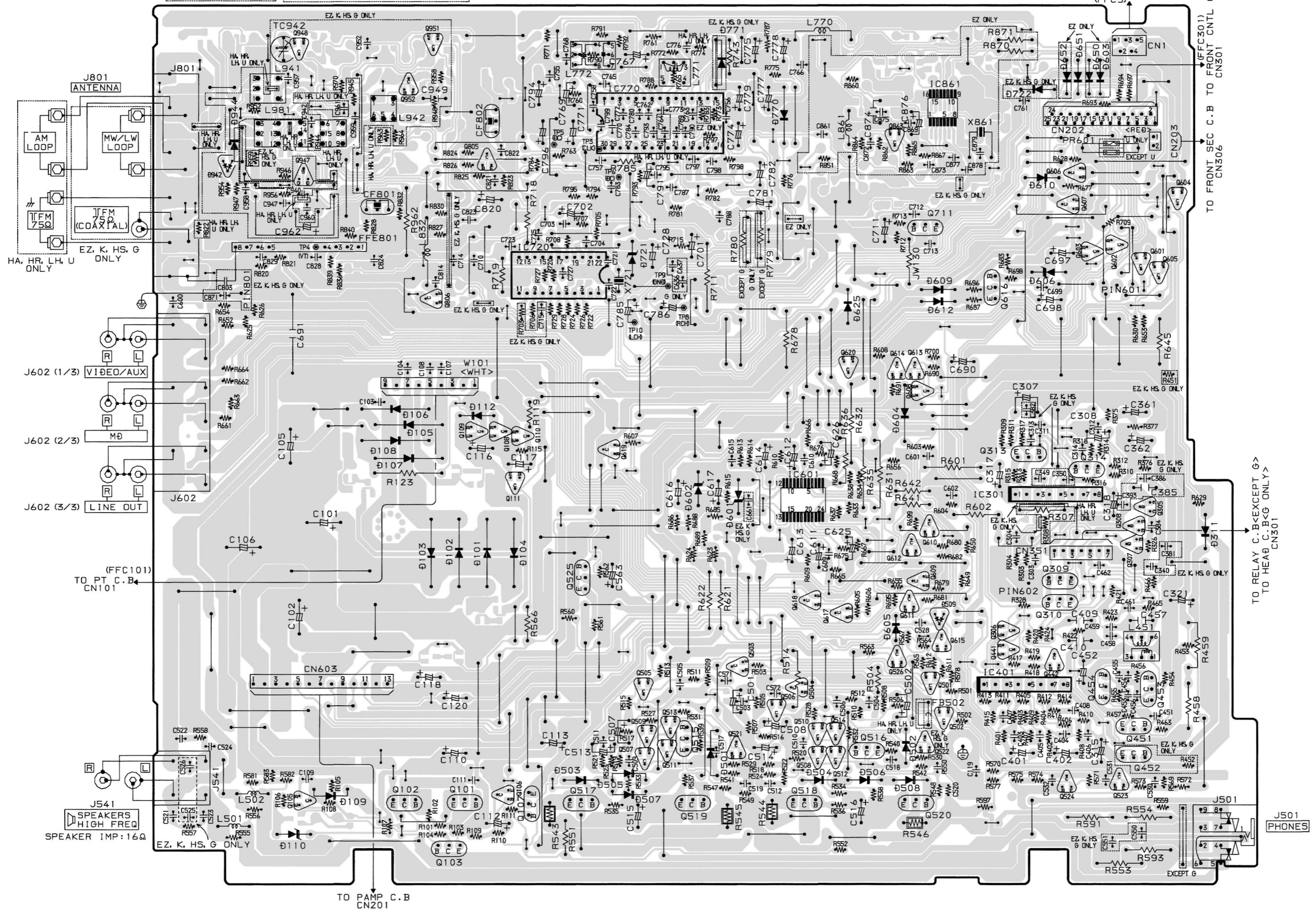


E C B

2SC3331

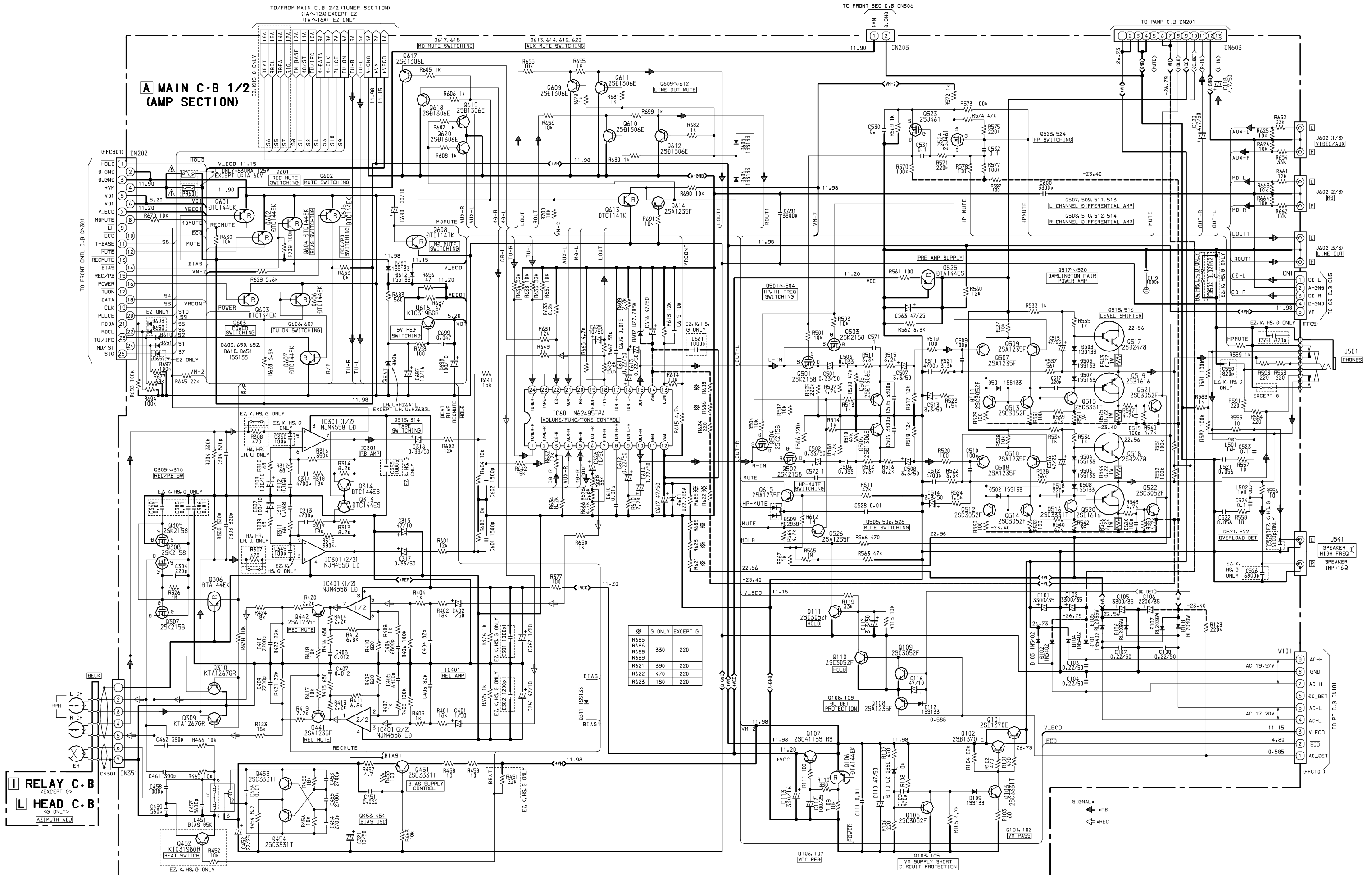


A MAIN C.B

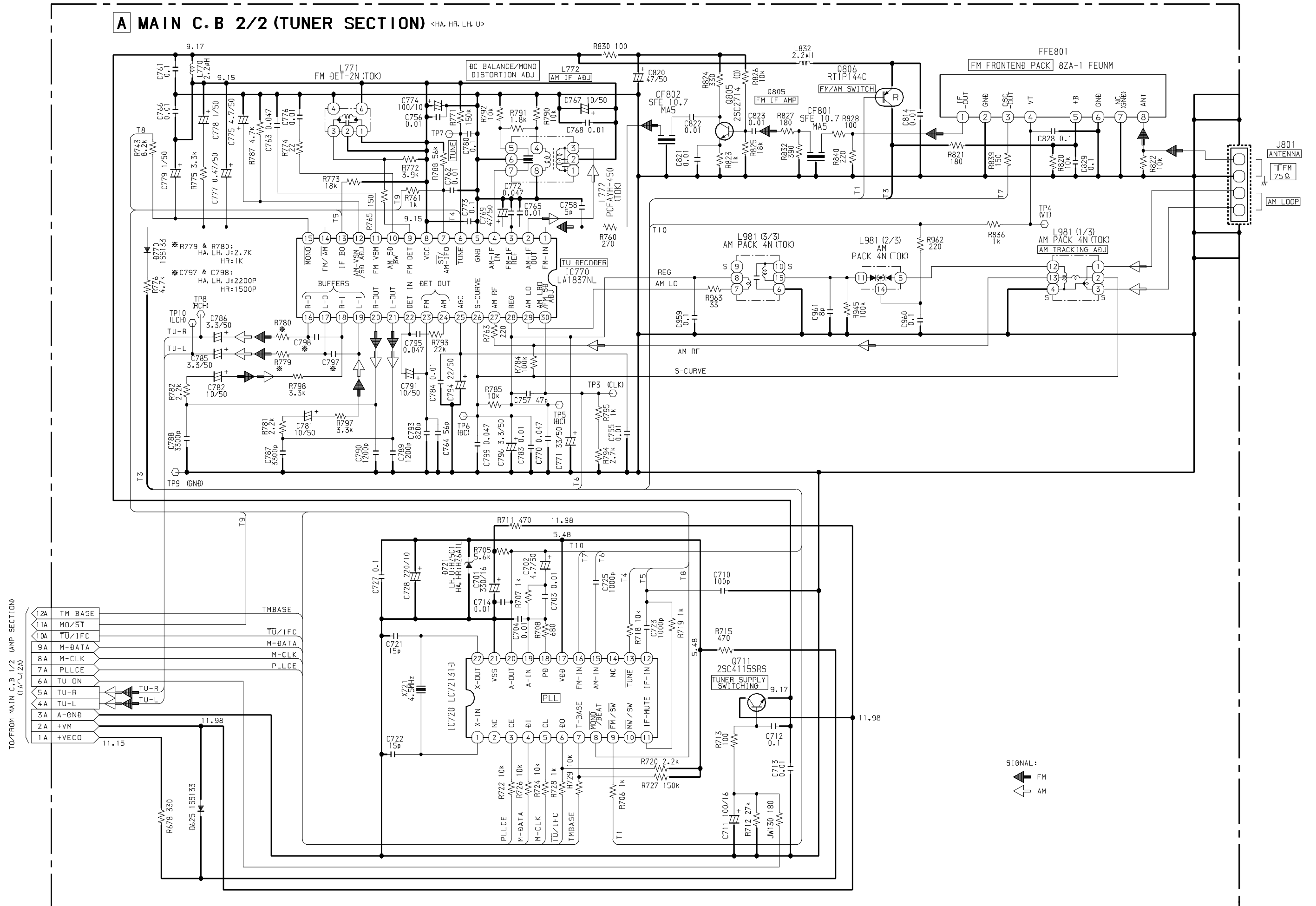


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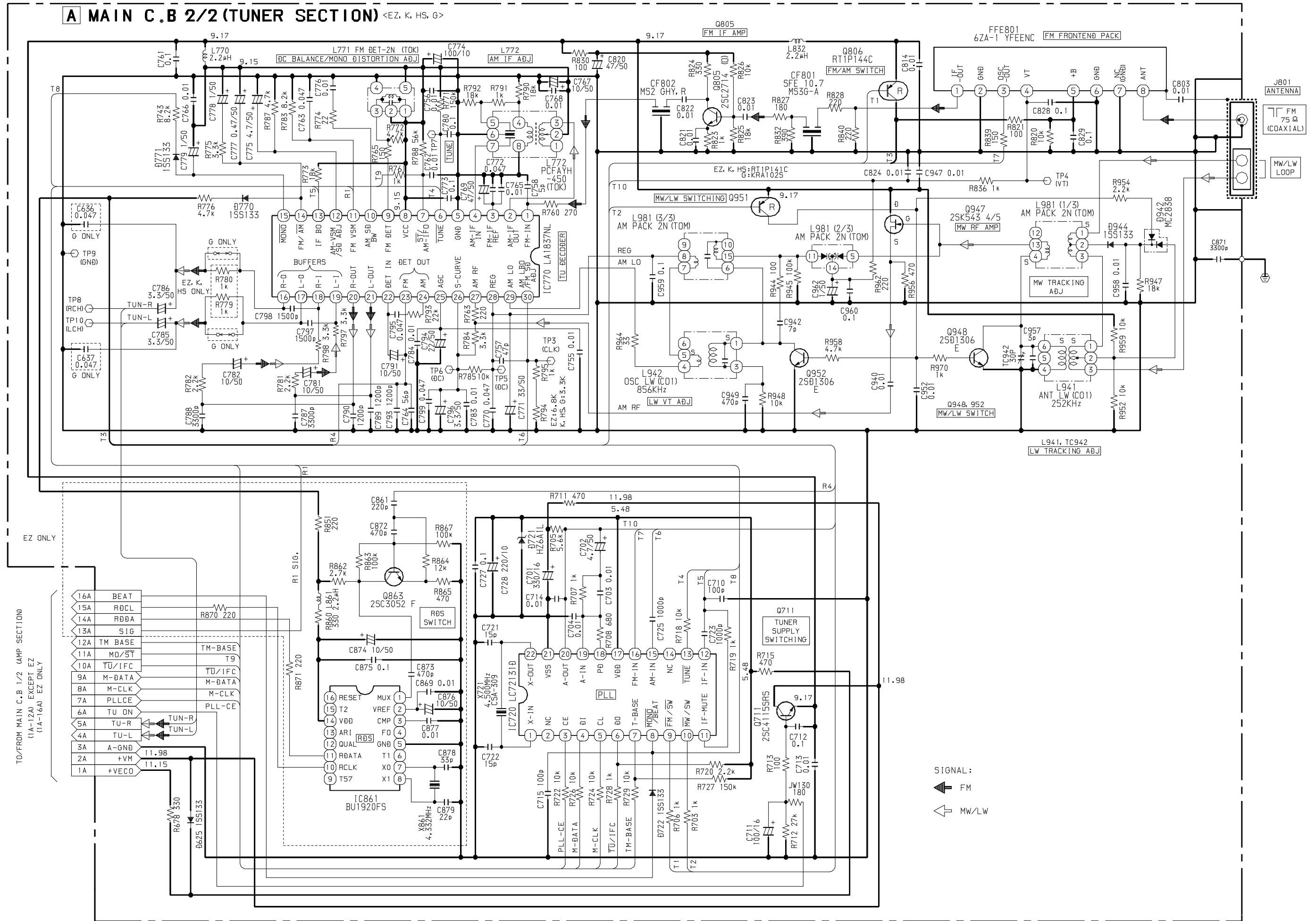
SCHEMATIC DIAGRAM - 1 (MAIN : 1/2 <AMP SECTION> / RELAY / HEAD)



SCHEMATIC DIAGRAM - 2 (MAIN : 2 / 2 <TUNER SECTION>) <LH, U, HA, HR>



SCHEMATIC DIAGRAM - 3 (MAIN : 2 / 2 <TUNER SECTION>) <EZ, K, HS, G>

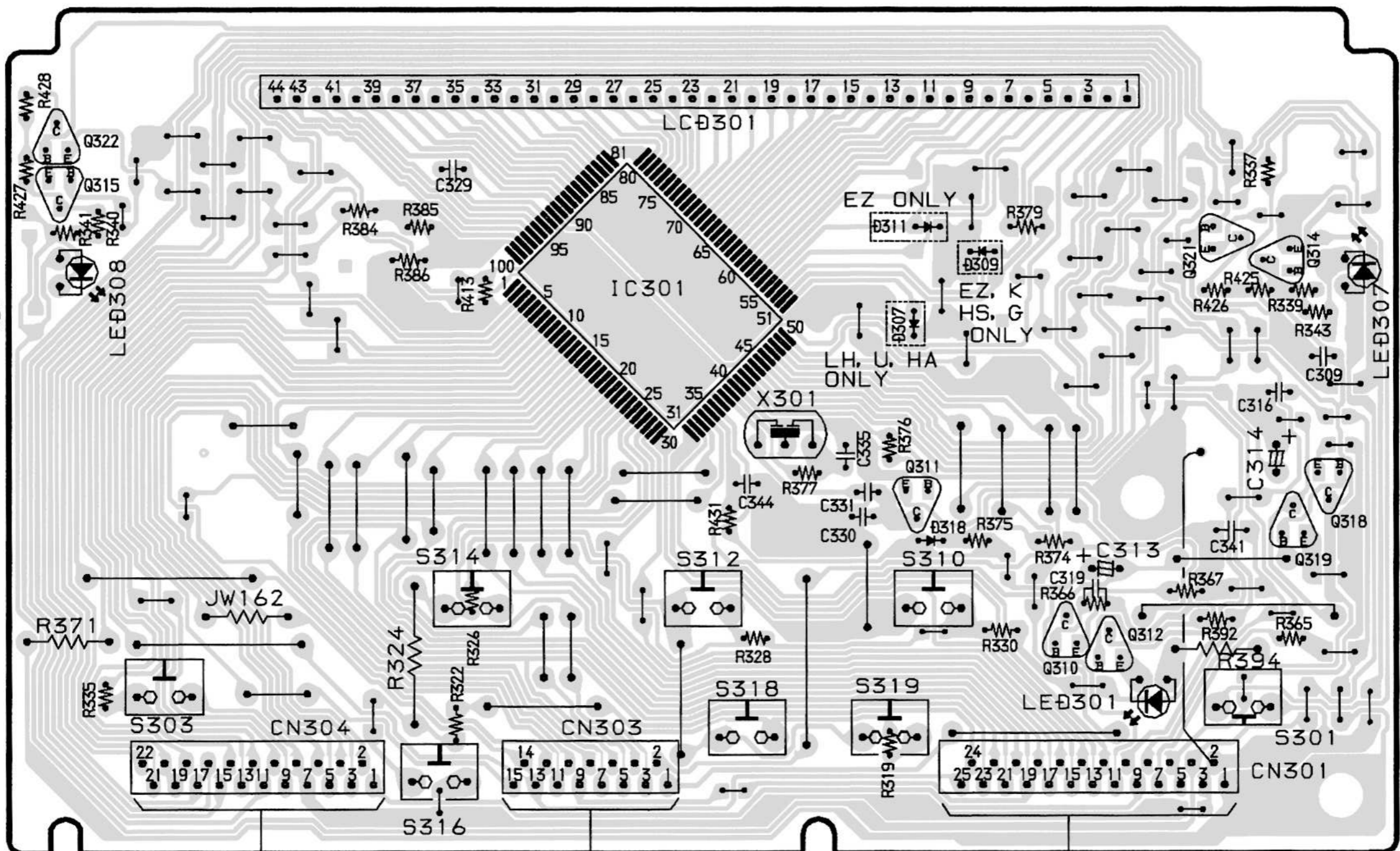


B FRONT CNTL C.B

LCB301
DISPLAY

LED308
LCD
(BACKLIGHT)

LED307
LCD
(BACKLIGHT)



(FFC304) TO FRONT SEC C.B
CN305

(FFC303) TO C.B
CN4

(FFC301) TO MAIN C.B (ECO INDICATION)
CN202

S303
▲ OPEN/CLOSE

S314
▶▶/▶▶ TUNING UP

S316
● REC/REC MUTE

S312
◀◀/◀◀ DIR/PRESET

S318
■ CLEAR

S310
◀◀/◀◀ TUNING DOWN

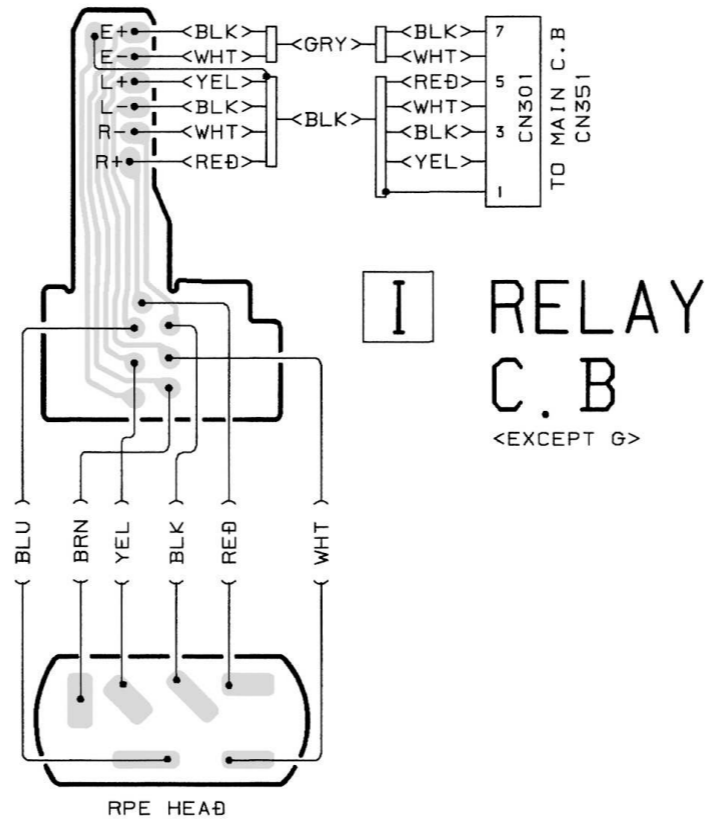
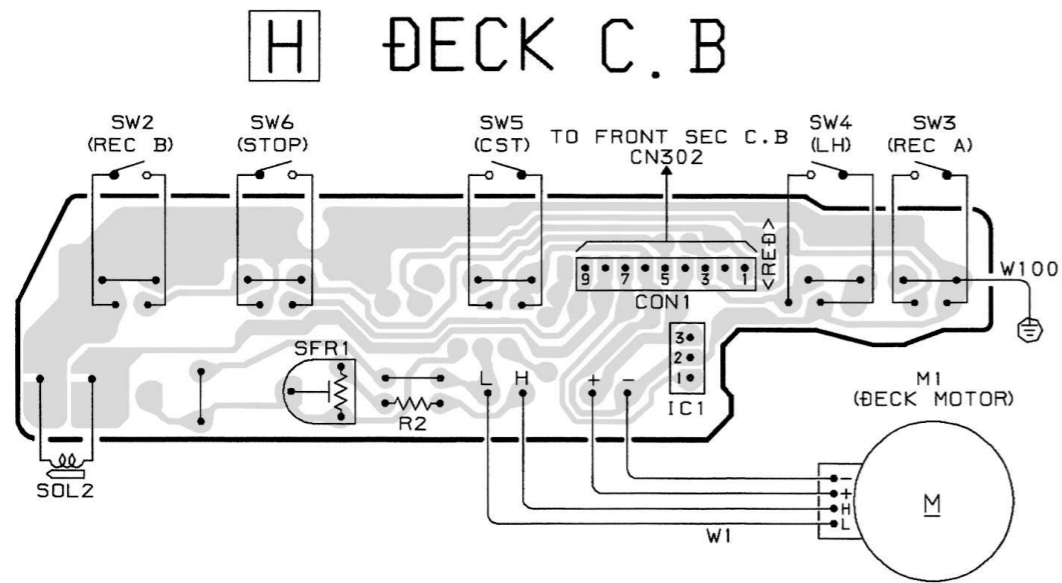
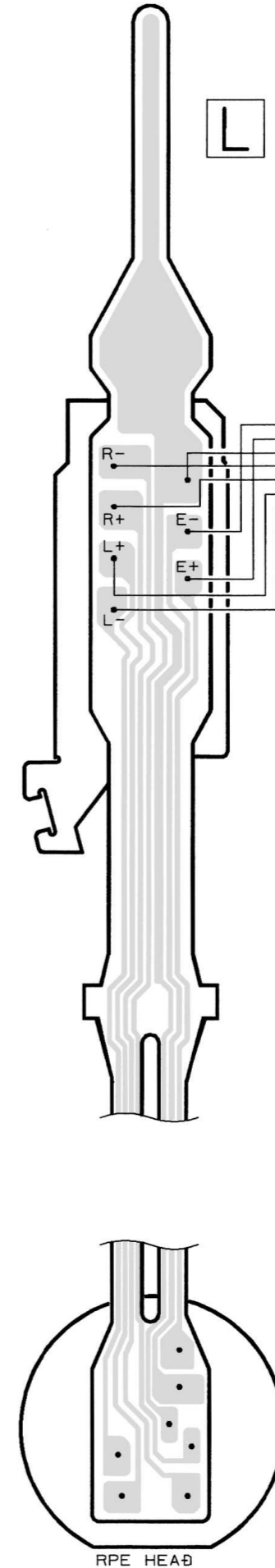
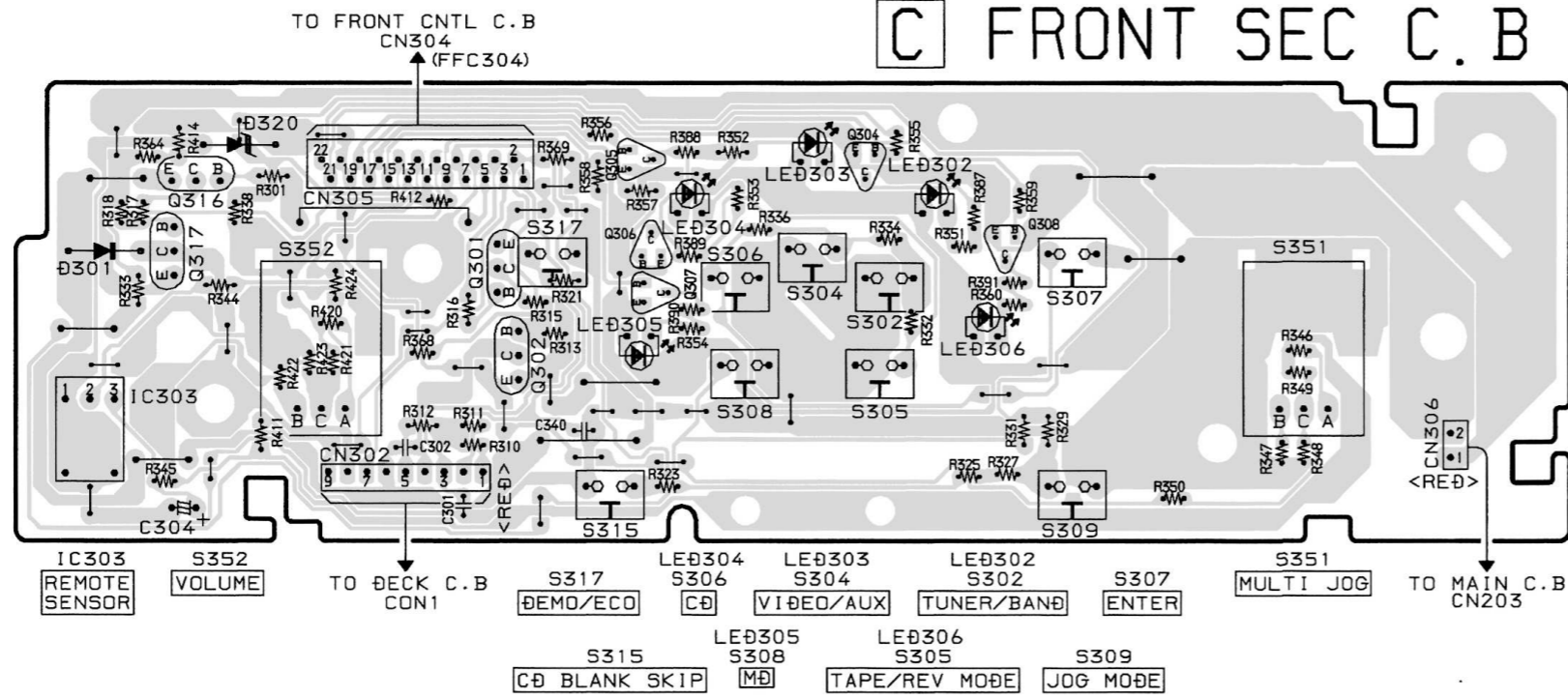
S319
|| SET

S301
POWER

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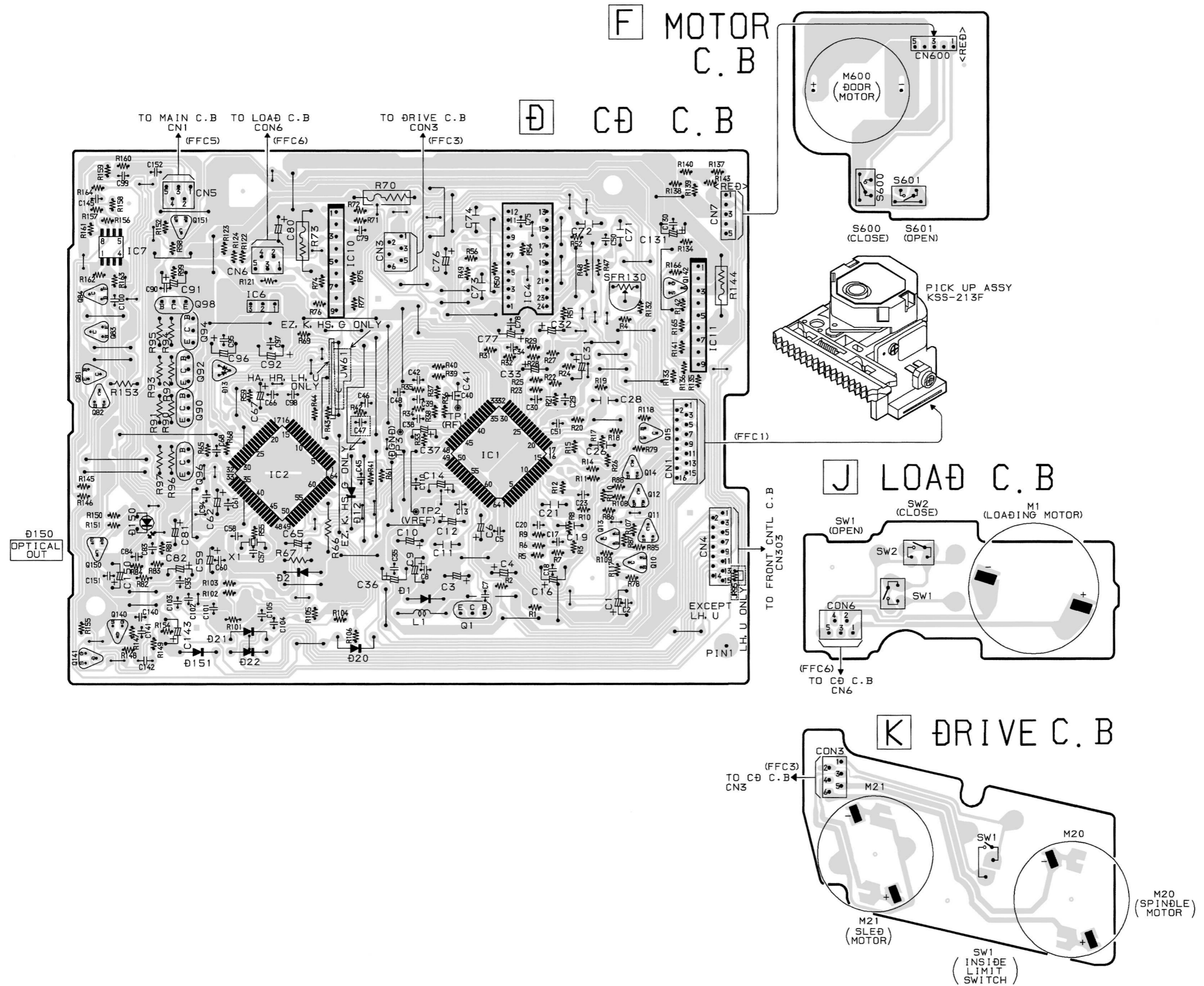
32	31	30	29	28	27	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1
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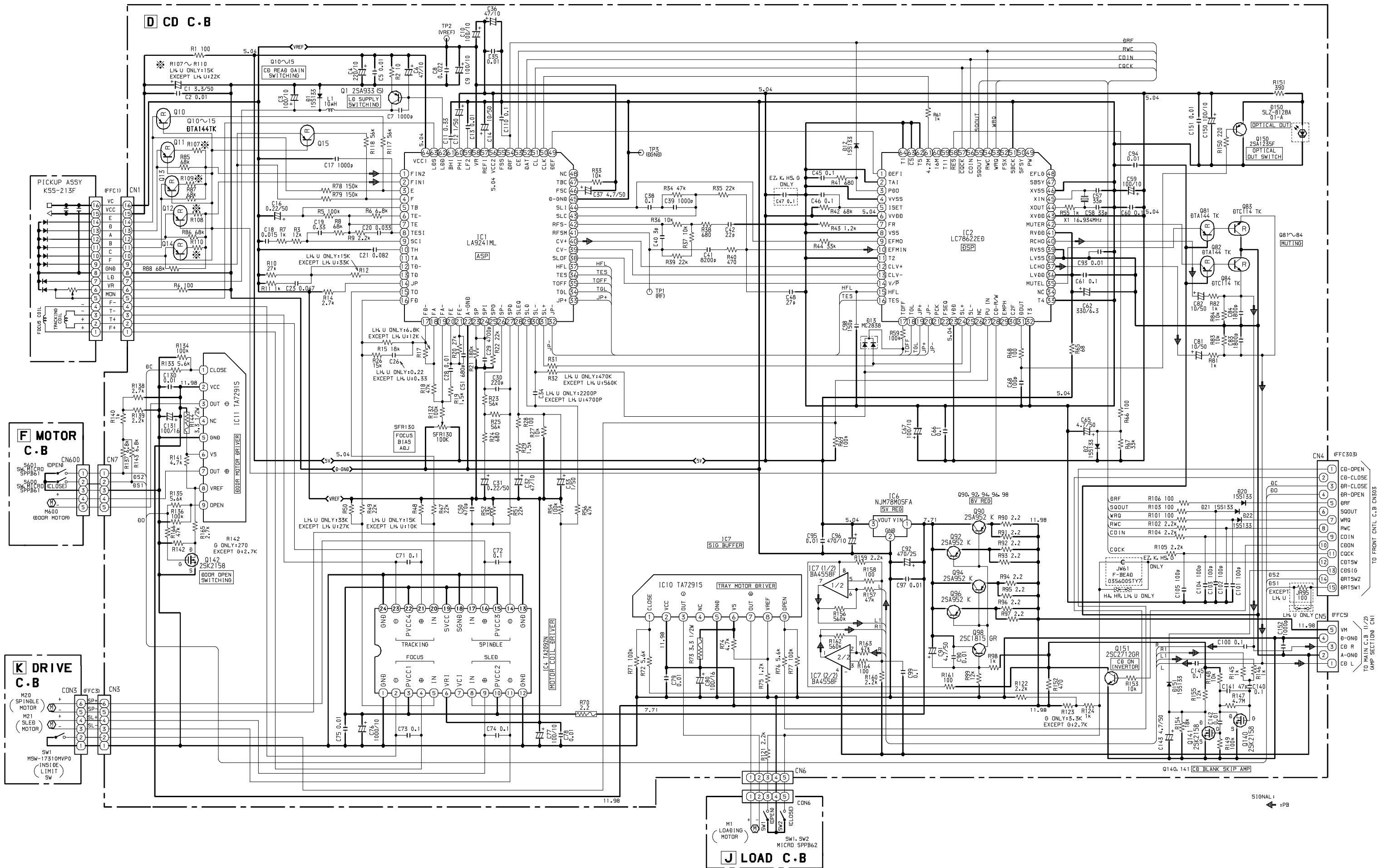


32	31	30	29	28	27	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1
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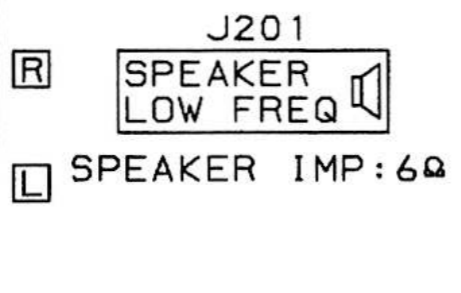
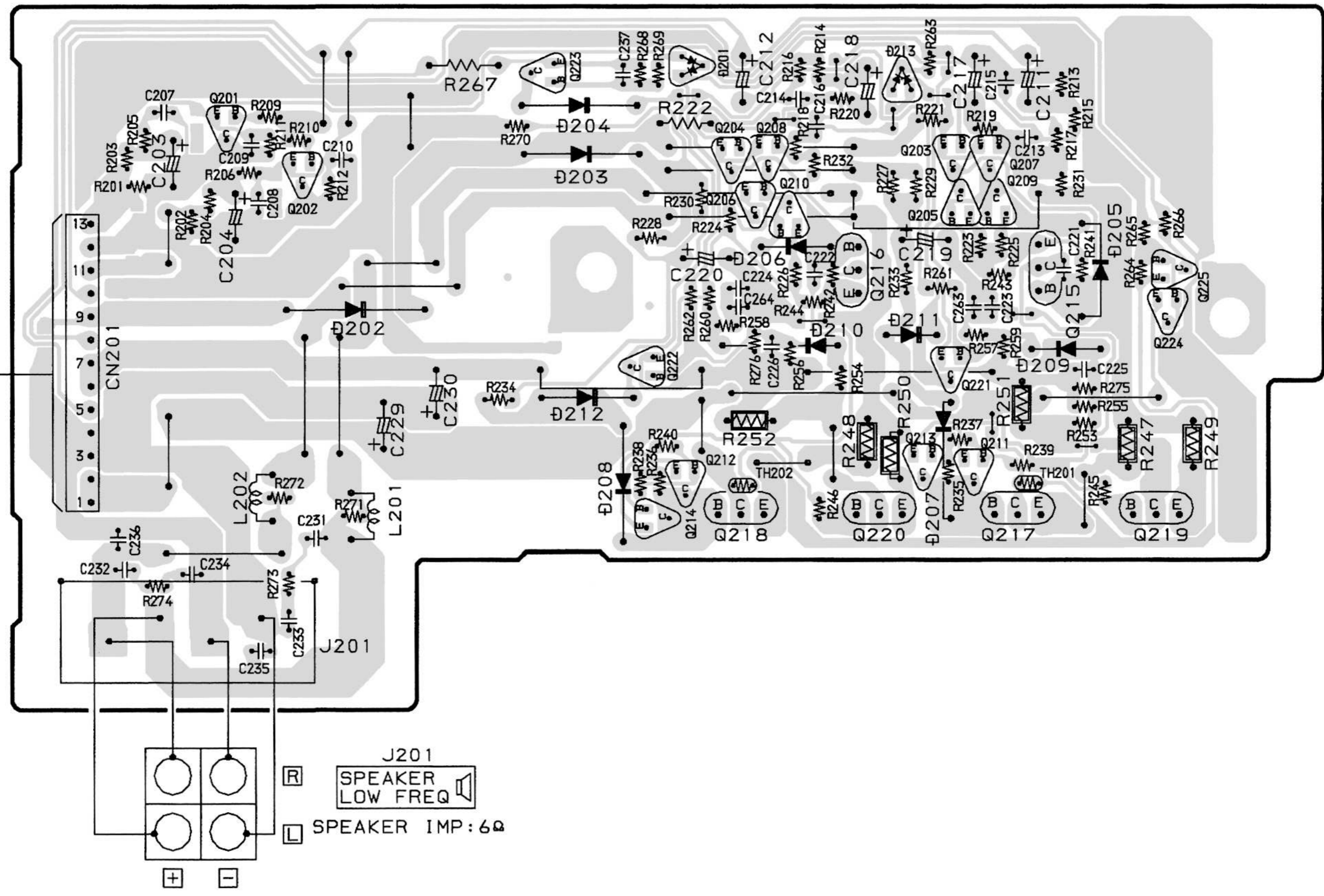


SCHEMATIC DIAGRAM - 5 (CD / MOTOR / LOAD / DRIVE)



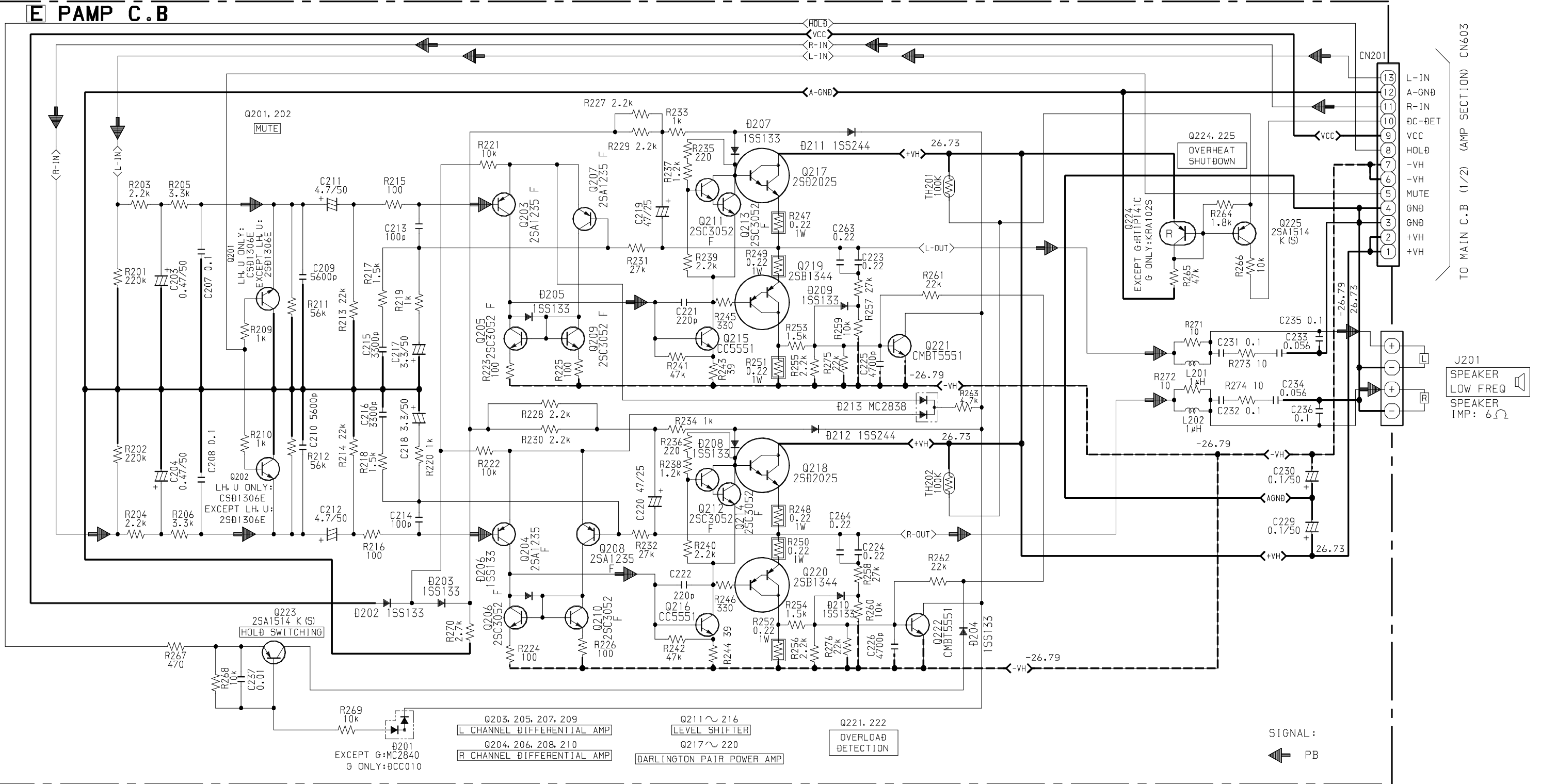
E PAMP C.B

TO MAIN C.B
CN603



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E PAMP C.B



TO MAIN C.B (1/2) (AMP SECTION) CN603

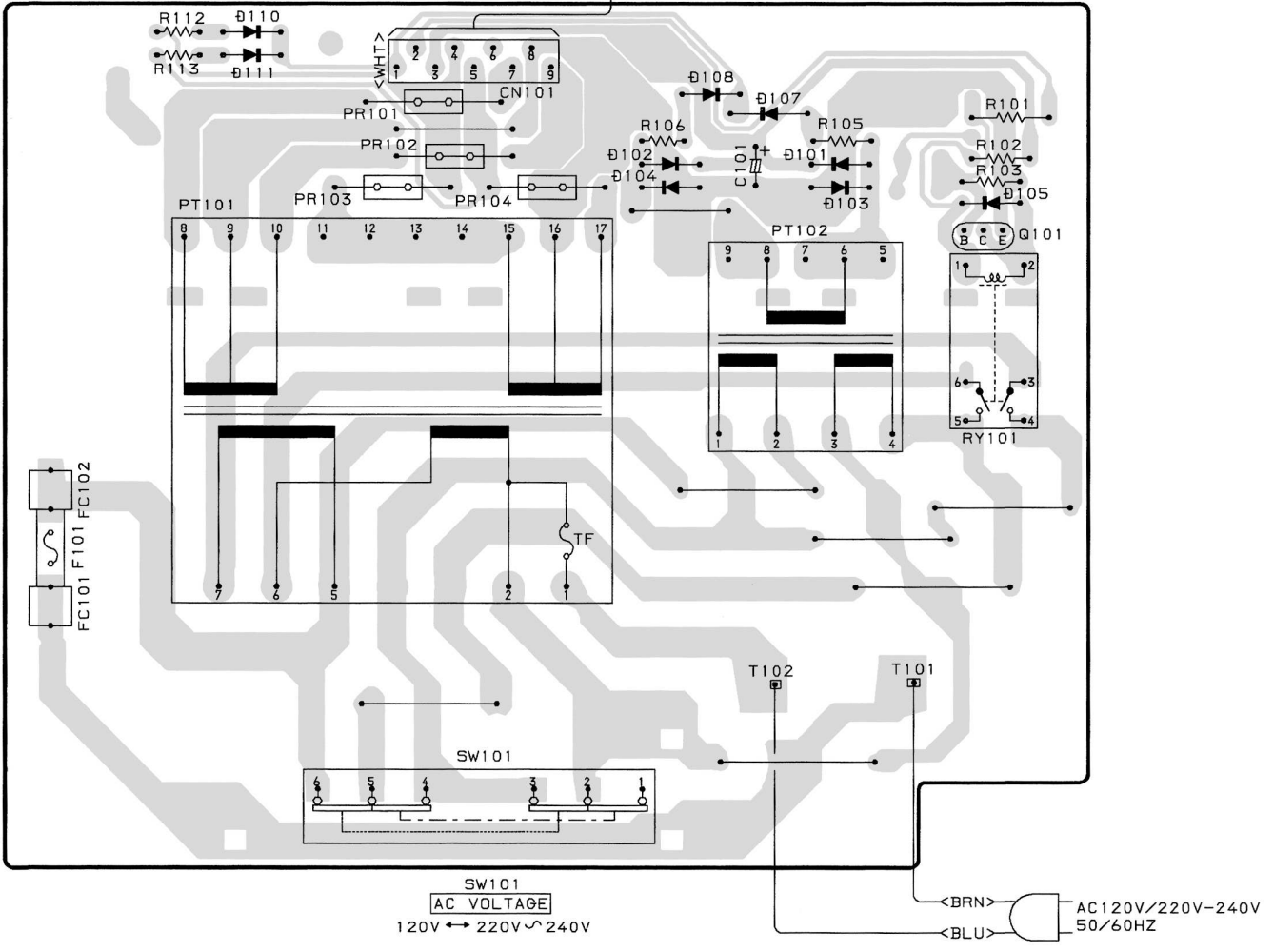
J201
SPEAKER
LOW FREQ
SPEAKER
IMP: 6Ω

WIRING - 6 (PT) <LH, HA, HR>

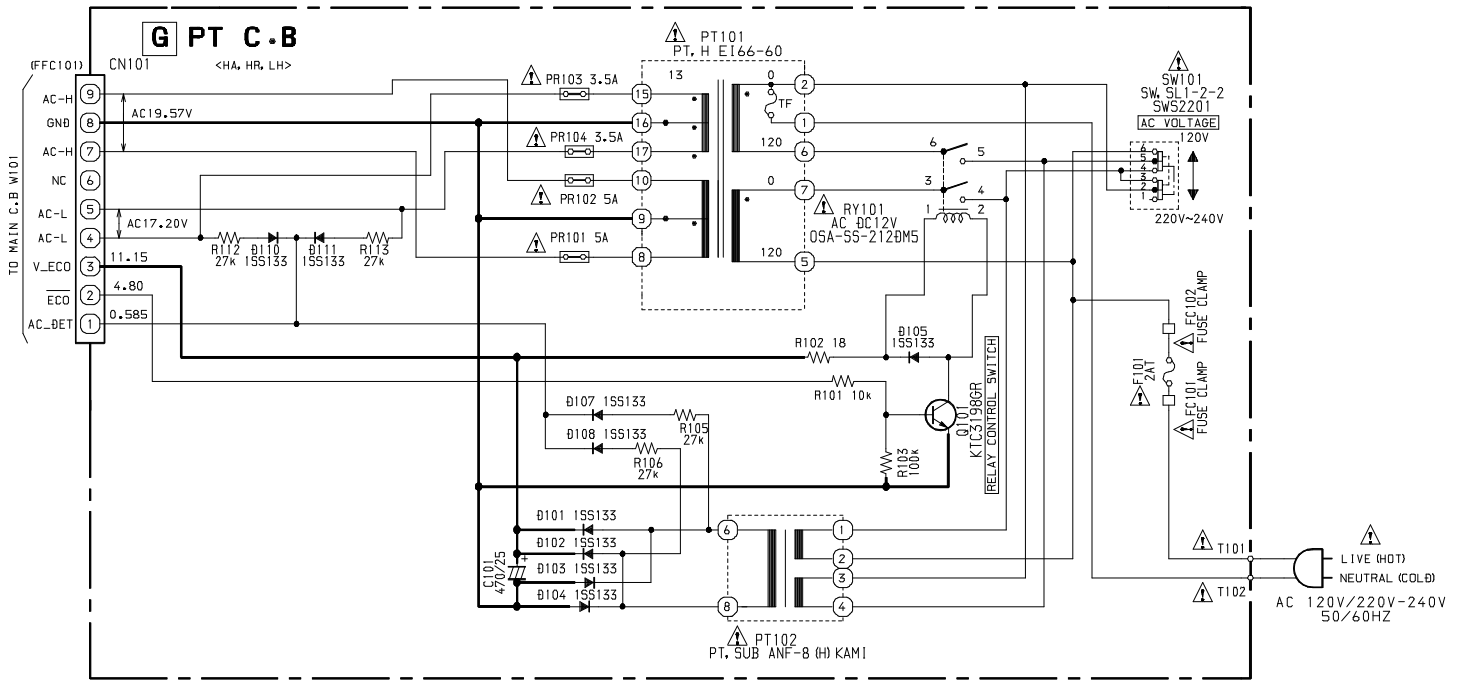
15	14	13	12	11	10	9	8	7	6	5	4	3	2	1
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G PT C.B. <HA, HR, LH ONLY>



SCHEMATIC DIAGRAM – 7 (PT) <LH, HA, HR>



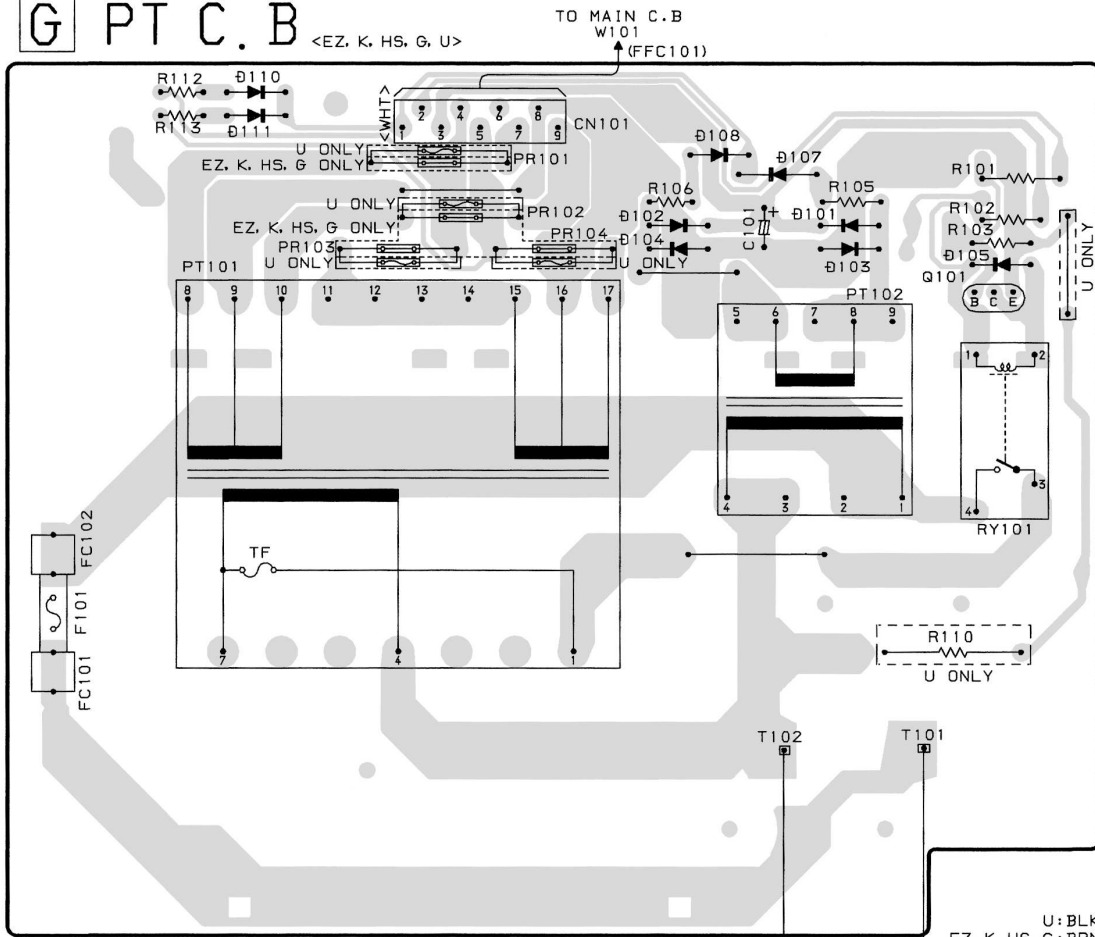
WIRING - 7 (PT) <EZ, K, HS, G, U>

15	14	13	12	11	10	9	8	7	6	5	4	3	2	1
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G PT C.B

<EZ, K, HS, G, U>

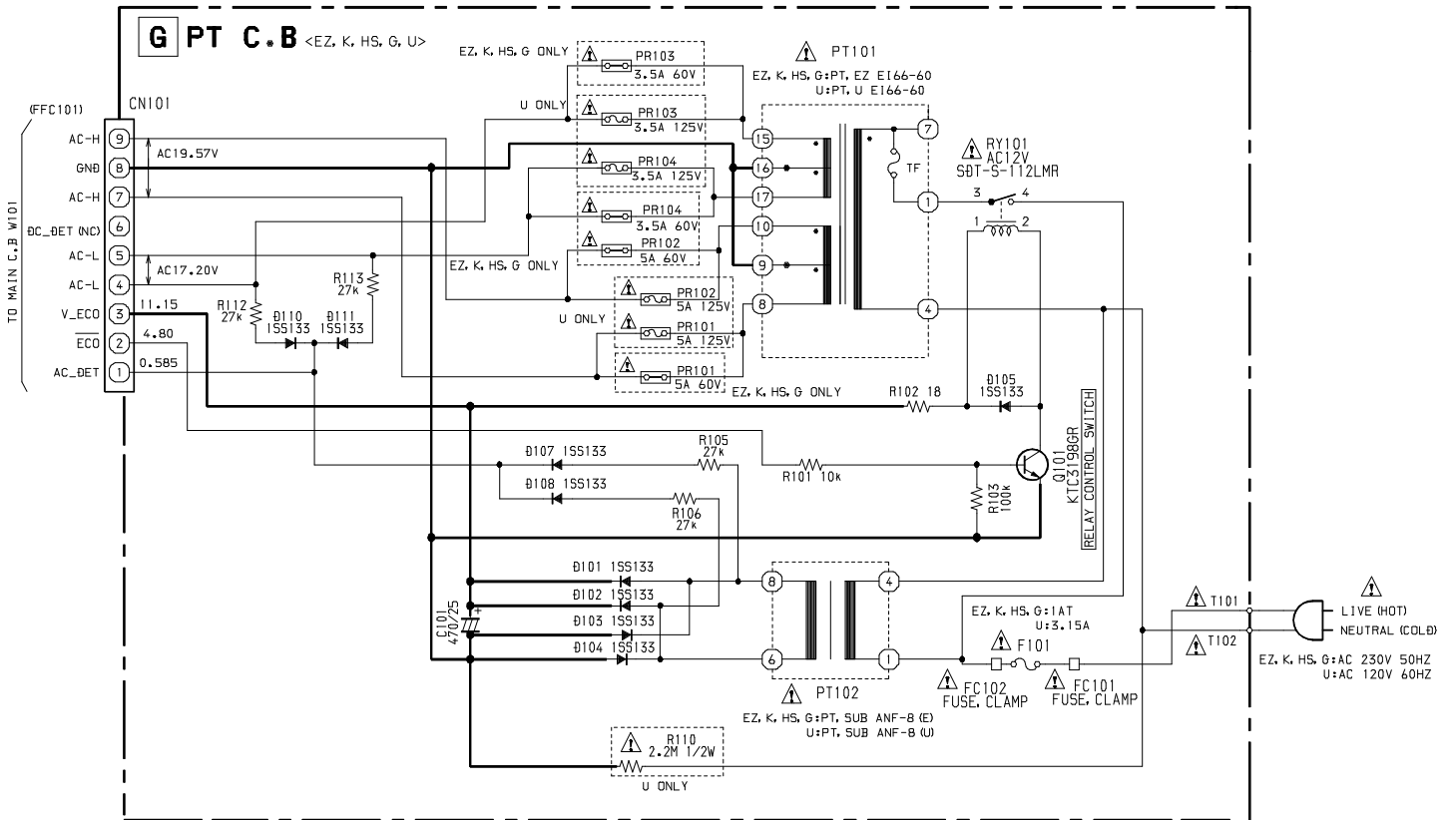


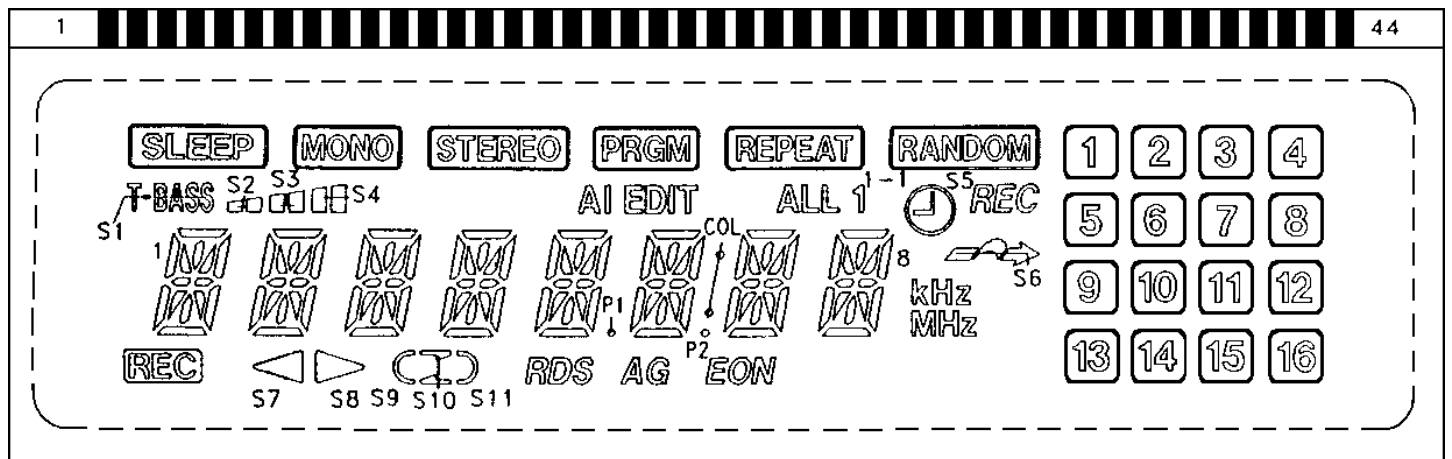
U: BLK
EZ, K, HS, G: BRN

EZ, K, HS, G: AC230V, 50HZ
U: AC120V, 60HZ

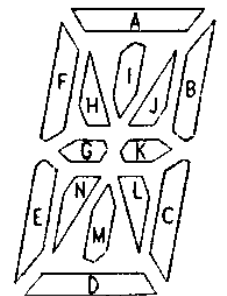
U: WHT
EZ, K, HS, G: BLU

SCHEMATIC DIAGRAM – 8 (PT) <EZ, K, HS, G, U>



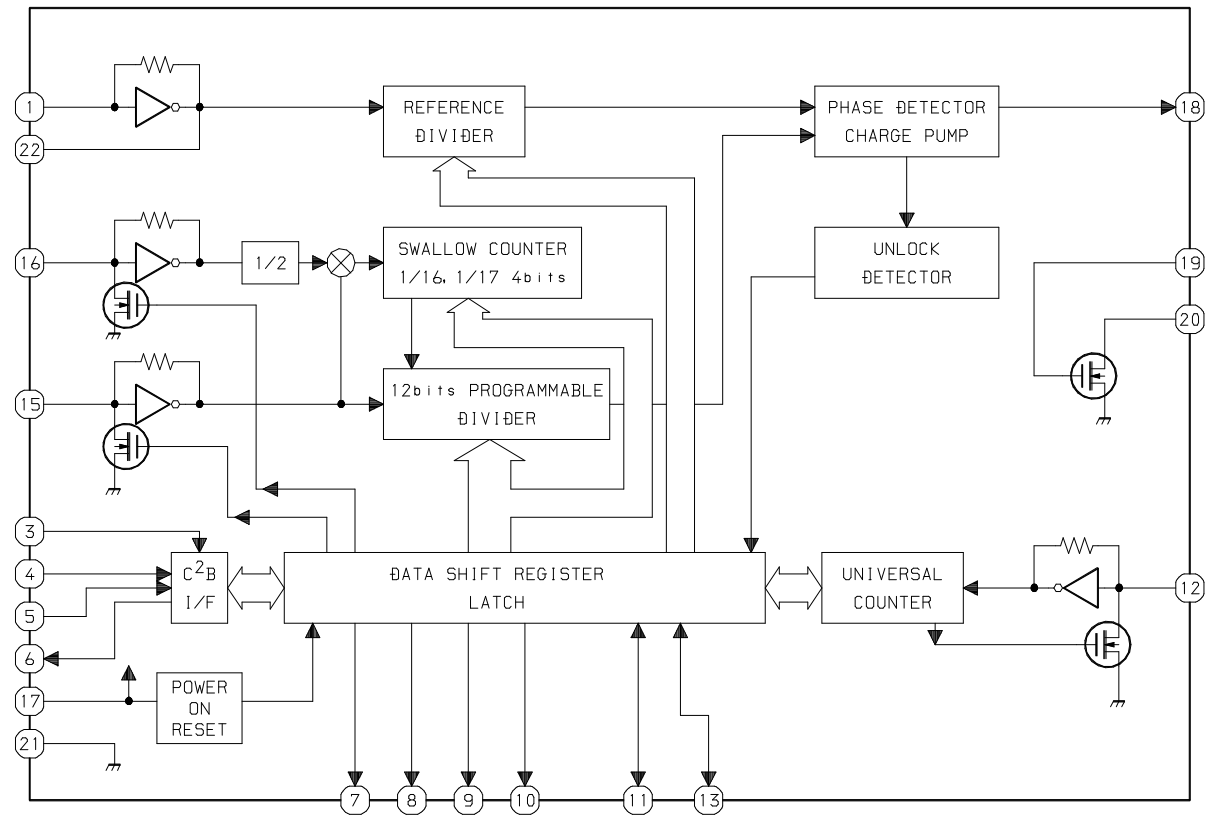


PIN No.	COM1	COM2	COM3	COM4	PIN No.	COM1	COM2	COM3	COM4
1	1D	1E	1F	SLEEP	23	6M	6K	6J	6A
2	1N	1G	1H	1I	24	6L	6C	6B	/
3	1M	1K	1J	1A	25	7D	7E	7F	REPEAT
4	1L	1C	1B	S2	26	7N	7G	7H	7I
5	2D	2E	2F	S3	27	7M	7K	7J	7A
6	2N	2G	2H	2I	28	7L	7C	7B	ALL
7	2M	2K	2J	2A	29	8D	8E	8F	RANDOM
8	2L	2C	2B	S4	30	8N	8G	8H	8I
9	3D	3E	3F	MONO	31	8M	8K	8J	8A
10	3N	3G	3H	3I	32	8L	8C	8B	S5
11	3M	3K	3J	3A	33	MHz	kHz	S6	REC
12	3L	3C	3B	S9	34	13	9	5	1
13	4D	4E	4F	S10	35	14	10	6	2
14	4N	4G	4H	4I	36	15	11	7	3
15	4M	4K	4J	4A	37	16	12	8	4
16	4L	4C	4B	STEREO	38	COL	P2	EON	1 - 1
17	5D	5E	5F	S11	39	AG	P1	AI	PRGM
18	5N	5G	5H	5I	40	S8	S7	REC	S1
19	5M	5K	5J	5A	41	/	/	/	COM4
20	5L	5C	5B	RDS	42	/	/	COM3	/
21	6D	6E	6F	EDIT	43	/	COM2	/	/
22	6N	6G	6H	6I	44	COM1	/	/	/

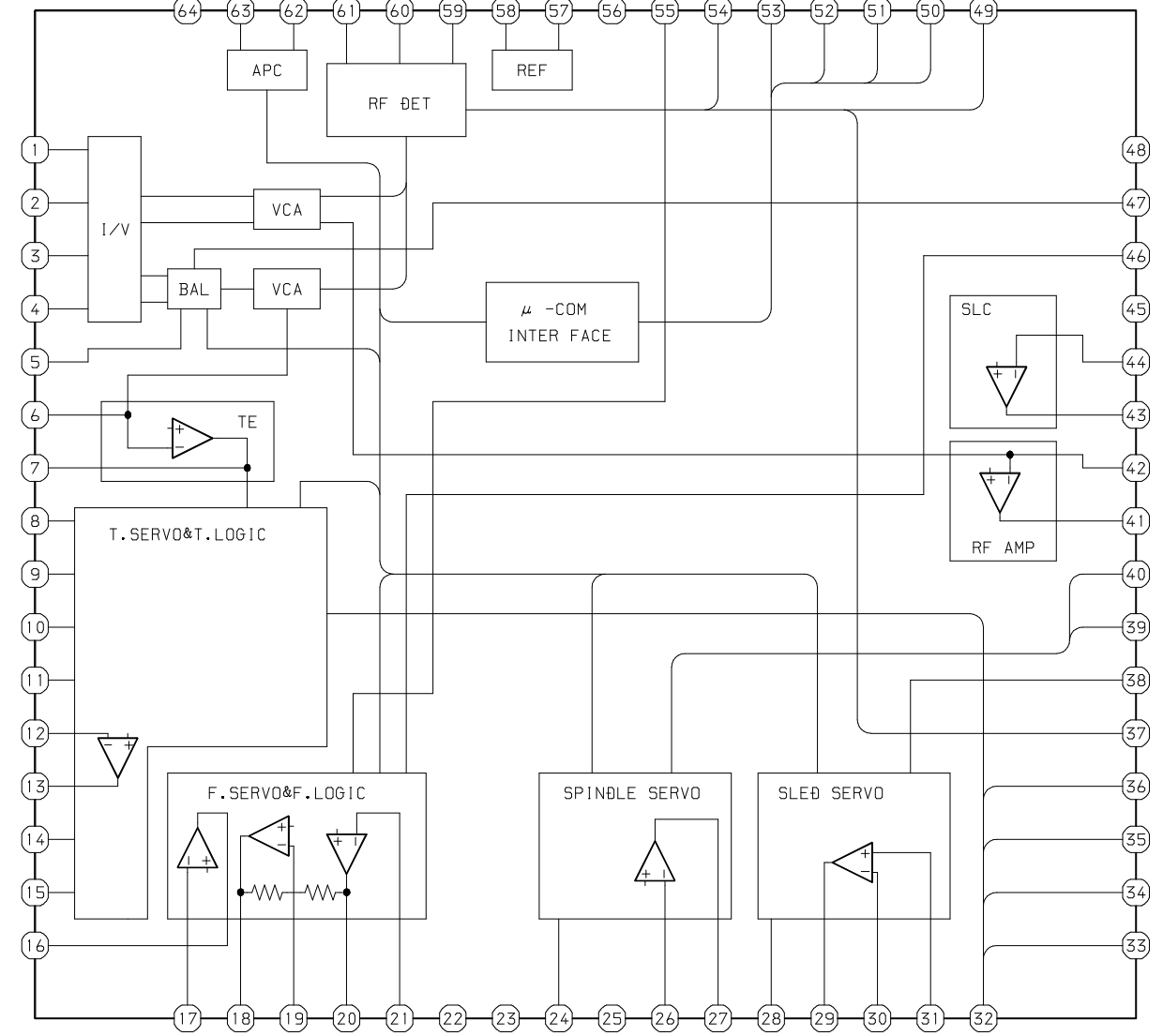


IC BLOCK DIAGRAM

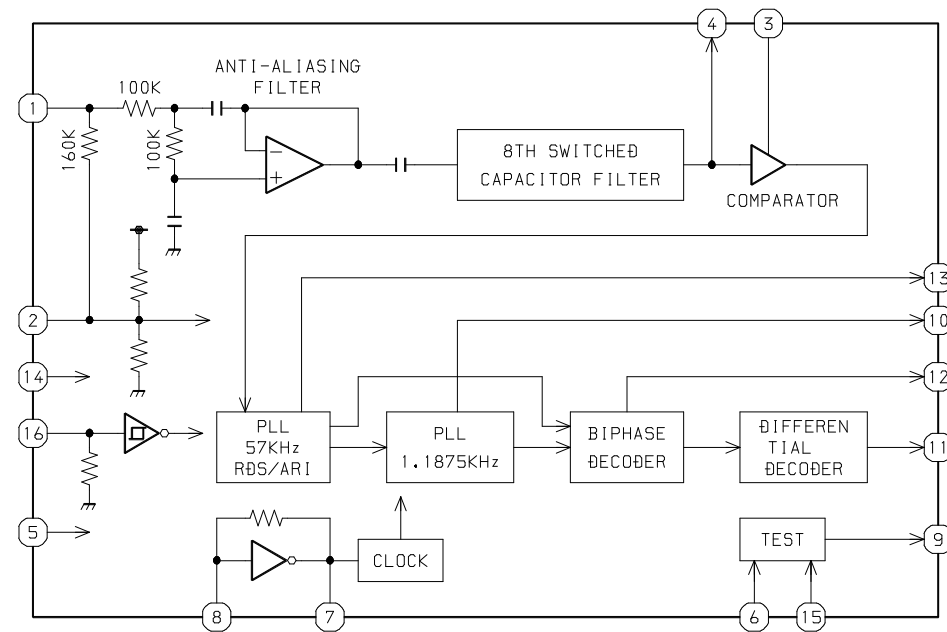
IC, LC72131D



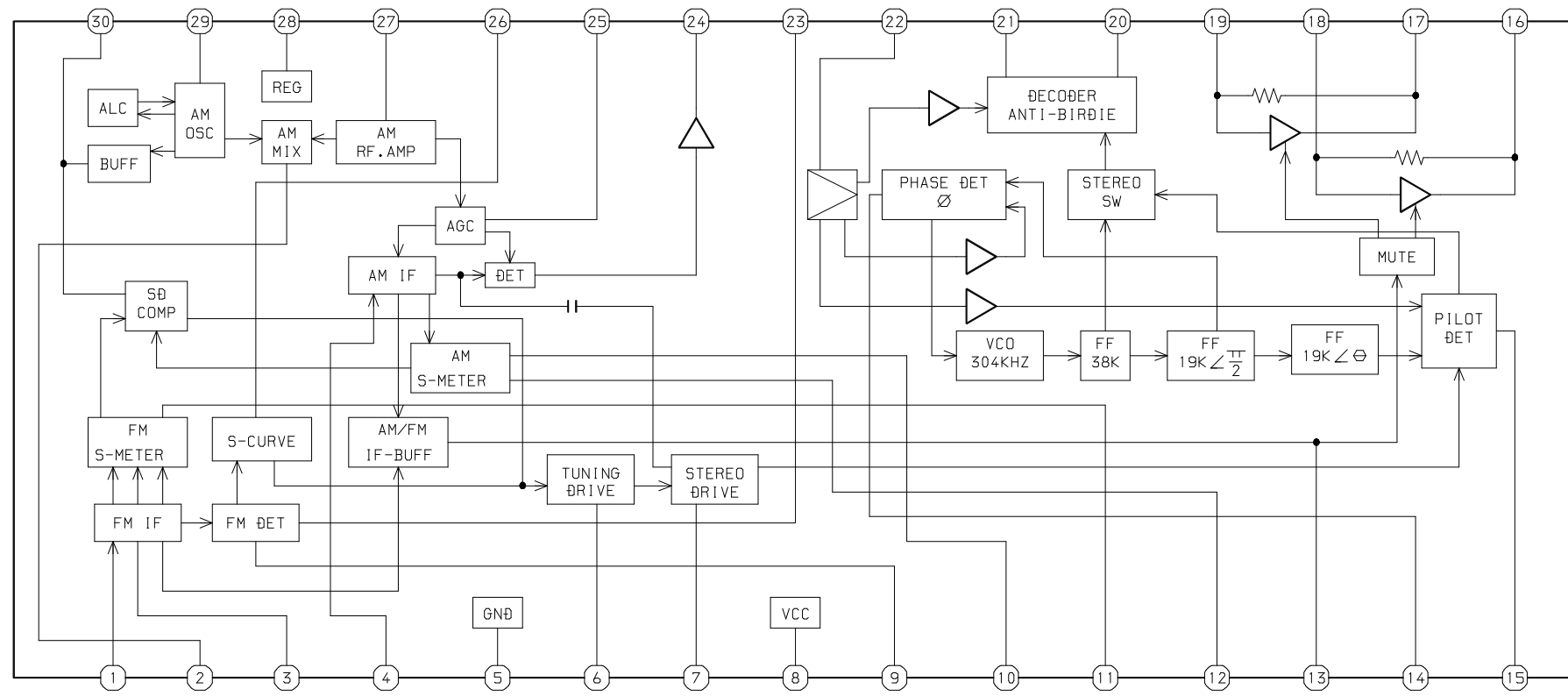
IC, LA9241ML



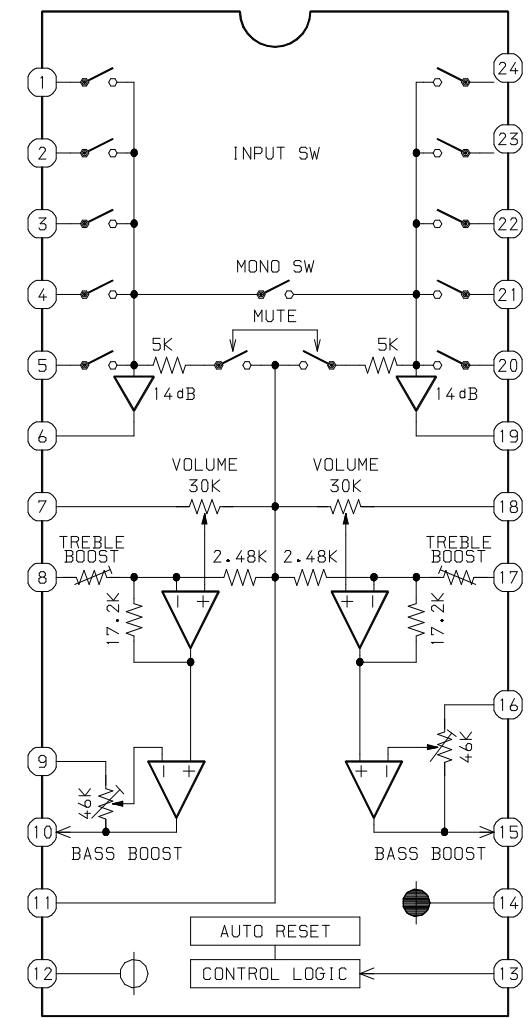
IC, BU1920FS



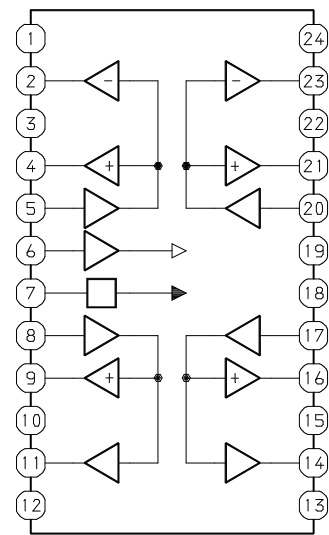
IC, LA1837NL



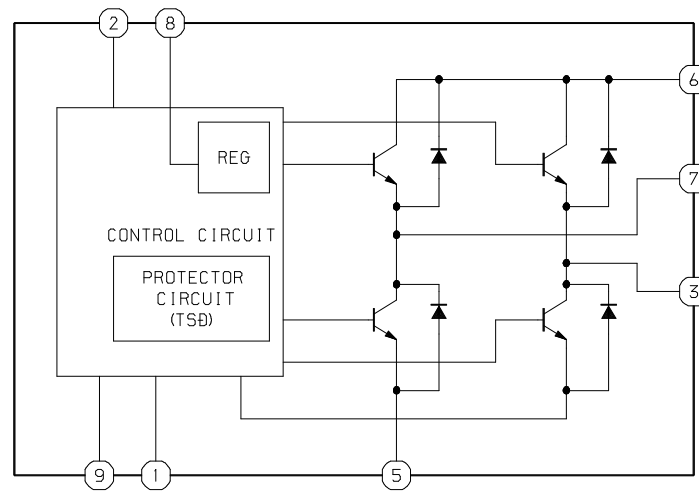
IC, M62495AFP



IC, TA2092N



IC, TA7291S



IC DESCRIPTION

IC, M38258-075FP <EXCEPT LH,U> / M38258MCM-072FP <LH,U ONLY>

Pin No.	Pin Name	I/O	Description
1	C1	–	Not used.
2	VL1	I	LCD driver supply voltage VL1.
3	I-CDTSW	I	CD tray switch A/D input.
4	I-HOLD	I	Hold level A/D input.
5	I-SIG/CDSIG	I	RDS signal strength A/D input <EZ only> / CD signal strength A/D input.
6	I-KEY1	I	Key 1 A/D input.
7	I-KEY2	I	Key 2 A/D input.
8	I-SWTP	I	Cassette detect switch A/D input.
9	I-JOG	I	Multi jog A/D input.
10	I-VOL	I	Volume jog A/D input.
11	I-DRTSW1	I	Front panel position detect 1.
12	I-DRTSW2	I	Front panel position detect 2.
13	O-CDON	O	CD ON/OFF control output.
14	O-CQCK	O	CD clock output.
15	I-DRF/I-ST	I	CD DRF input / Tuner stereo input.
16	I-SQOUT/I-TU/IFC	I	CD SQOUT input / Tuner TUNE, IFC input.
17	I-WRQ/I-RDCL	I	CD WRQ input / RDS clock input <EZ only>.
18	O-RWC/I-RDDA	O/I	CD control data output / RDS data input <EZ only>.
19	O-PLLCE	O	PLL chip enable output.
20	O-CLK/O-COIN	O	Common serial clock output / Command to CD DSP output.
21	O-DATA	O	Common serial data output.
22	O-TUON	O	Tuner ON/OFF control.
23	I-RMC	I	Remote control data input.
24	O-SOL	O	Deck solenoid ON/OFF output.
25	O-MOTOR	O	Deck motor ON/OFF output.
26	O-DROPEN	O	Front panel open output.
27	O-DRCLOSE	O	Front panel close output.
28	O-POWER	O	Power ON/OFF control output.
29	O-PB/REC	O	Deck PLAYBACK / RECORD select output.
30	O-BIAS	O	Record 85kHz oscillator ON/OFF output.
31	O-RECMUTE	O	Record mute output.
32	O-MUTE	O	Mute control output.
33	I-STOP	I	Deck stop signal input.
34	I-AS	I	Deck autostop signal input.
35	RST	I	Micon RESET input.
36	T-BASE	I	8Hz time base input from PLL.
37	O-BACKLED	O	Backlit LED control signal.
38	XIN	I	8MHz ceralock.
39	XOUT	O	8MHz ceralock.
40	VSS	I	GND.
41	O-CLKSHIFT	O	Micon clock shift output.

Pin No.	Pin Name	I/O	Description
42	O-LED-MD	O	MD function LED ON/OFF output.
43	O-LED-CD	O	CD function LED ON/OFF output.
44	O-LED-AUX	O	AUX function LED ON/OFF output.
45	O-LED-TU	O	TUNER function LED ON/OFF output.
46	O-LED-TP	O	TAPE function LED ON/OFF output.
47	O-ECO	O	Economical mode ON/OFF output.
48	O-CDCLOSE	O	CD tray close output.
49	O-CDOPEN	O	CD tray open output.
50	I-INIT	I	Didoe matrix detection input.
51	S39/I-AM10K	O/I	LCD segment S39 output / AM10k selection input <LH, U, HA only>.
52	S38/I-SW	O/I	LCD segment S38 output / SW selection input (not used).
53	S37/I-LW	O/I	LCD segment S37 output / LW selection input <EZ, K, HS, G only>.
54	S36/I-AMST/FM WIDE	O/I	LCD segment S36 output / AMST, FM WIDE selection input (not used).
55	S35/I-RDS	O/I	LCD segment S35 output / RDS selection input <EZ only>.
56	S34/I-OIRT	O/I	LCD segment S34 output / OIRT selection input (not used).
57 ~ 90	S33 ~ S0	O	LCD segment S33 ~ S0 output.
91	VCC	I	Power supply.
92	VREF	I	A/D converter reference voltage.
93	AVSS	I	Analogue GND.
94 ~ 97	COM3 ~ COM0	O	LCD common output.
98	VL3	I	LCD driver supply voltage VL3.
99	VL2	I	LCD driver supply voltage VL2.
100	C2	-	Not used.

IC, LA9241ML

Pin No.	Pin Name	I/O	Description
1	FIN2	I	Connects to the pickup's photo diode; adding this pin to pin FIN1 generates RF signal, and subtracting it generates FE signal.
2	FIN1	I	Connects to the pickup's photo diode.
3	E	I	Connects to the pickup's photo diode; subtracting this pin from pin F generates TE signal.
4	F	I	Connects to the pickup's photo diode.
5	TB	I	Input for DC component of TE signal.
6	TE-	I	Connects to the resistor between this pin and TE pin for setting the gain of TE signal.
7	TE	O	Output for TE signal.
8	TESI	I	Input for TES (Track Error Sense) comparator, TE signal is band-passed and inputted.
9	SCI	I	Input for shock detection.
10	TH	I	For setting tracking gain time constant.
11	TA	O	TA amplifier output pin.
12	TD-	I	For constructing tracking phase compensation constant between TD and VR pins.
13	TD	O	For setting tracking phase compensation.
14	JP	I	For setting the amplifier of tracking jump signal (kick pulse).
15	TO	O	Output for tracking control signal.
16	FD	O	Output for focusing control signal.
17	FD-	I	For constructing focusing phase compensation constant between FD and FA pins.
18	FA	O	For constructing focusing phase compensation constant between FD- and FA- pins.
19	FA-	I	For constructing focusing phase compensation constant between FA and FE pins.
20	FE	O	Output for FE signal.
21	FE-	I	Connects to the gain-setting resistor of FE signal between this pin and FE pin.
22	A-GND	-	GND for analog signals.
23	SP	O	Single end output of CV+ and CV- pin input signal.
24	SPI		
25	SPG	I	Connects to the gain-setting resistor during spindle 12cm mode.
26	SP-	I	Connects to spindle phase compensation constant together with SPD pin.
27	SPD	O	Output for spindle control signal.
28	SLEQ	I	Connects to sled phase compensation constant.
29	SLD	O	Output for sled control signal.
30	SL-	I	Input for sled-sending signal from microcontroller.
31	SL+	I	Input for sled-sending signal.
32	JP-	I	Input for tracking-jump signal from DSP.
33	JP+		
34	TGL	I	Input for tracking gain control signal from DSP; gain is low if TGL = "H".
35	TOFF	I	Input for tracking off control signal from DSP; off if TOFF = "H".
36	TES	O	Outputs TES signal to DSP.
37	HFL	O	HIGH FREQUENCY LEVEL; used to determine whether the main beam is on a pit or on a mirror.
38	SLOF	I	Input for sled servo off control.

Pin No.	Pin Name	I/O	Description
39	CV-	I	Input for CLV error signal from DSP.
40	CV+		
41	RFSM	O	Output for RF.
42	RFS-	O	For setting RF gain and 3T compensation constant together with RFSM.
43	SLC	O	SLICE LEVEL CONTROL; output for controlling the data slice level of DSP with RF waveform.
44	SLI	I	Input for controlling the data slice level of DSP.
45	D-GND	-	GND for digital system.
46	FSC	O	Output pin for focus search smoothing capacitor.
47	TBC	I	(Tracking Balance Control) EF balance variable range setting pin.
48	NC	-	Not connected.
49	DEF	O	Output for disk defect detection.
50	CLK	I	Standard clock input; DSP's 4.23MHz is inputted.
51	CL	I	Clock input for microcontroller command.
52	DAT	I	Data input for microcontroller command.
53	CE	I	Chip-enable input for microcontroller command.
54	DRF	O	Detect RF; output for RF level detection.
55	FSS	I	(Focus Search Mode) = search/+search against reference voltage switching pin. (Not used)
56	VCC2	-	VCC pin for servo and digital systems.
57	REFI	I	For connecting pass capacitor to reference voltage.
58	VR	O	Reference voltage output.
59	LF2	-	For setting disk defect-detection time constant.
60	PHI	-	Connects to capacitor for RF signal peak hold.
61	BHI	-	Connects to capacitor for RF signal bottom hold.
62	LDD	O	Output for APC circuit.
63	LDS	I	Input for APC circuit.
64	VCC1	-	VCC pin for RF system.

IC, LC78622ED

Pin No.	Pin Name	I/O	Description
1	DEFI	I	Defect detection signal (DEF) input.
2	TAI	I	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	O	PDO output current adjustment resistor connection.
6	VVDD	–	Internal VCO power supply.
7	FR	–	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	T2	I	Test input. A pull-down resistor is built in. (Must be connected to 0V.)
12	CLV+	O	Disc motor control output. Three-value output is also possible when specified by microprocessor command.
13	CLV–		
14	V \bar{P}	O	Rough servo/phase control automatic switching monitor output. Outputs a high level during rough servo and a low level during phase control.
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. Outputs 4.3218 MHz when the phase is locked. (Not used)
22	FSEQ	O	Synchronization signal detection output. Outputs a high level when the synchronization signal detected from the EFM signal and the internally generated synchronization signal agree. (Not used)
23	VDD	–	Digital system power supply.
24	SL+	O	Serial data command sled signal output terminal from microprocessor.
25	SL–		
26	NC	–	Not connected.
27	PU IN	I	CD pickup inside limit switch.
28	CD-R/W	I	CD-R/CD-RW disc select control.
29	EMPH	O	De-emphasis monitor pin. A high level indicates playback of a de-emphasis disk. (Not used)
30	C2F	O	C2 flag output. (Not used)
31	DOUT	O	Digital output (EIAJ format).
32	T3	I	Test input. A pull-down resistor is built in. (Must be connected to 0V.)
33	T4		
34	NC	–	Not connected.
35	MUTEL	O	Left channel one-bit D/A converter mute output.
36	LVDD	–	Left channel one-bit D/A converter power supply.
37	LCHO	O	Left channel one-bit D/A converter output.
38	LVSS	–	Left channel one-bit D/A converter ground. (Must be connected to 0V.)

Pin No.	Pin Name	I/O	Description
39	RVSS	–	Right channel one-bit D/A converter ground. (Must be connected to 0V.)
40	RCHO	O	Right channel one-bit D/A converter output.
41	RVDD	–	Right channel one-bit D/A converter power supply.
42	MUTER	O	Right channel one-bit D/A converter mute output.
43	XVDD	–	Crystal oscillator power supply.
44	XOUT	O	Connections for a 16.934MHz crystal oscillator element.
45	XIN	I	
46	XVSS	–	Crystal oscillator ground. (Must be connected to 0V.)
47	SBSY	O	Subcode block synchronization signal output. (Not used)
48	EFLG	O	C1, C2 single and double error correction monitor pin. (Not used)
49	PW	O	Subcode P, Q, R, S, T, U, V and W output. (Not used)
50	SFSY	O	Subcode frame synchronization signal output. This signal falls when the subcode are in the standby state. (Not used)
51	SBCK	I	Subcode readout clock input. This is a Schmitt input. (Must be connected to 0V when unused)
52	FSX	O	Output 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	Readwrite control input. This is a Schmitt input.
55	SQOUT	O	Subcode Q output.
56	COIN	I	Command input from the control microprocessor.
57	$\overline{\text{CQCK}}$	I	Input for both the command input acquisition clock and the SQOUT pin subcode readout clock input. This is a Schmitt input.
58	$\overline{\text{RES}}$	I	Chip reset pin. This pin must be set low briefly after power is first applied.
59	T11	O	Test output. Leave open. (Normally outputs a low level). (Not used)
60	16M	O	16.9344 MHz output. (Not used)
61	4.2M	O	4.2336 MHz output.
62	T5	I	Test input. A pull-down resistor is built in. (Must be connected to 0V.)
63	$\overline{\text{CS}}$	I	Chip select input. A pull-down resistor is built in. (Must be connected to 0V if not controlled.)
64	T1	I	Test input. No pull-down resistor. (Must be connected to 0V.)

IC, LC72131D

Pin No.	Pin Name	I/O	Description																								
1	X-IN	I	A crystal oscillator (4.5MHz) is connected between these pins.																								
22	X-OUT	O																									
2	NC	–	Not connected.																								
3	CE	I	To enable the IC. Active "H".																								
4	DI	I	Digital data input from CPU (M38258MCM) when relevant key is operated. Active "H".																								
5	CL	I	To clock in the data DI.																								
6	DO	O	Digital data output to CPU (M38258MCM).																								
7	TM-BASE	O	Outputs a reference clock signal (8Hz) for the clock.																								
8	$\overline{\text{MONO}} / \text{BEAT}$	O	Outputs "H" when MONO / BEAT is switched.																								
9	$\overline{\text{FM}} / \overline{\text{SW}}$	O	Output "L" or "H" as follows: <table border="1" style="margin-left: 20px;"> <thead> <tr> <th colspan="2">2 BAND</th> <th colspan="3">3 BAND</th> <th colspan="3">3 BAND</th> </tr> <tr> <th>AM</th> <th>FM</th> <th>LW</th> <th>MW</th> <th>FM</th> <th>MW</th> <th>SW</th> <th>FM</th> </tr> </thead> <tbody> <tr> <td>H</td> <td>L</td> <td>H</td> <td>H</td> <td>L</td> <td>H</td> <td>L</td> <td>L</td> </tr> </tbody> </table>	2 BAND		3 BAND			3 BAND			AM	FM	LW	MW	FM	MW	SW	FM	H	L	H	H	L	H	L	L
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AM	FM	LW	MW	FM	MW	SW	FM																				
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2 BAND		3 BAND			3 BAND																						
AM	FM	LW	MW	FM	MW	SW	FM																				
L	L	H	L	L	L	H	L																				
11	IF-MUTE	O	To control internal counter.																								
12	IF-IN	I	General purpose counter input.																								
13	$\overline{\text{TUNE}}$	I	Receives "L" when station is tuned.																								
14	NC	–	Not connected.																								
15	AM-IN	I	Receives the AM local oscillator frequency signal.																								
16	FM-IN	I	Receives the FM local oscillator frequency signal.																								
17	VDD	–	Supply power to IC (+5V).																								
18	PD	O	PLL charge pump output.																								
19	A-IN	I	The MOS transistor used for PLL active low pass filter.																								
20	A-OUT	O																									
21	VSS	–	Ground.																								

ADJUSTMENT <TUNER / DECK / CD>

< TUNER SECTION >

1. Clock Frequency Check
Settings : • Test point : TP3 (CLK)
Method : Set to AM 1710kHz (LH,U,HA), AM 1602kHz (HR), MW 1602kHz (EZ,K,HS,G) and check that the test point is 2160kHz \pm 45Hz (LH,U,HA), 2052kHz \pm 45Hz (EZ,K,HS,G,HR),
2. AM (MW) VT Check
Settings : • Test point : TP4 (VT)
Method : Set to AM 1710kHz (LH,U,HA), AM 1602kHz (HR), MW 1602kHz (EZ,K,HS,G) and check that the test point is less than 8.5V (LH,U,HA,HR), less than 8.0V (EZ,K,HS,G). Then set to AM 530kHz (LH,U,HA), AM 531kHz (HR), MW 531kHz (EZ,K,HS,G) and check that the test point is more than 0.6V (LH,U,HA, EZ,K,HS,G), more than 0.3V (HR).
3. AM (MW) Tracking Adjustment
Settings : • Test point : TP8 (RCH)
TP9 (GND)
TP10 (LCH)
• Adjustment location : L981 (1/3)
Method : Set to AM 1000kHz (LH,U,HA), AM 999kHz (HR), MW 999kHz (EZ,K,HS,G) and adjust L981(1/3) so that the test point becomes maximum.
4. AM IF Adjustment
Settings : • Test point : TP8 (RCH)
TP9 (GND)
TP10 (LCH)
L772 450kHz
5. LW VT Adjustment <EZ,K,HS,G only>
Settings : • Test point : TP4 (VT)
• Adjustment location : L942
Method : Set to LW 144kHz and adjust L942 so that the test point becomes 1.3V \pm 0.05V. Then set to LW 290kHz and check that the test point is less than 8.0V.
6. LW Tracking Adjustment <EZ,K,HS,G only>
Settings : • Test point : TP8 (RCH)
TP9 (GND)
TP10 (LCH)
• Adjustment location : L941 144kHz
TC942 290kHz
Method : Set up TC942 to center before adjustment. The level at 144kHz is adjusted to MAX by L941. Then the level at 290kHz is adjusted to MAX by TC942.
7. FM VT Check
Settings : • Test point : TP4 (VT)
Method : Set to FM 108.0MHz (87.5MHz) and check that the test point is less than 8.0V (108.0MHz) and more than 0.5V (87.5MHz).
8. FM Tracking Check
Settings : • Test point : TP8 (RCH)
TP9 (GND)
TP10 (LCH)
Method : Set to FM 98.0MHz and check that the test point is less than 8dBuV (LH,U,HA,HR), less than 13dBuV (EZ,K,HS,G).

9. DC Balance / Mono Distortion Adjustment
Settings : • Test point : TP5 (DC), TP6 (DC)
• Adjustment location : L771
• Input level : 60dBuV
Method : Set to FM 98.0MHz and adjust L771 so that the voltage between TP5 and TP6 becomes 0V \pm 0.04V. Next, check that the distortion is less than 1.0%.
10. FM Separation Check
Settings : • Test point : TP8 (RCH)
TP9 (GND)
TP10 (LCH)
• Input level : 60dBuV
Method : Set to FM 98.0MHz and check that the test point is more than 25dB (LH,U,HA,HR), more than 12dB (EZ,K,HS,G).

< DECK SECTION >

11. Tape Speed Adjustment
Settings : • Test tape : TTA-100
• Test point : J602 (3/3) LINE OUT
• Adjustment location : SFR1
Method : Play back the 3kHz signal of the test tape and adjust SFR1 for 3000Hz \pm 5Hz (FWD) and FWD PLAY speed \pm 45Hz (REV).
12. Head Azimuth Adjustment
Settings : • Test tape : TTA-300
• Test point : J602 (3/3) LINE OUT
• 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.
13. PB Frequency Response Check
Settings : • Test tape : TTA-320
• Test point : J602 (3/3) LINE OUT
Method : Play back the 315Hz and 10kHz signals of the test tape and check that the output ratio of the 10kHz signal with respect to that of the 315Hz signal is $-3\text{dB} \pm 3\text{dB}$.
14. REC/PB Frequency Response Check
Settings : • Test tape : TTA-602
• Test point : J602 (3/3) LINE OUT
Method : Input a -20VU (0dB) signal to the AUX terminal. Record the 1kHz and 8kHz signals on the test tape and play back them. Check that the difference between the record level and the play back level at 1kHz and 8kHz signal is -2dB to $\pm 3\text{dB}$.

< CD SECTION >

15. Focus Bias Adjustment
Settings : • Test disc : TCD-782
• Test point : TP1 (RF), TP2 (VREF)
• Adjustment location : SFR130
Method : Play back the test disc (TCD-782, Track No. 2) and adjust SFR130 so that the RF level is maximum and the jitter is minimum

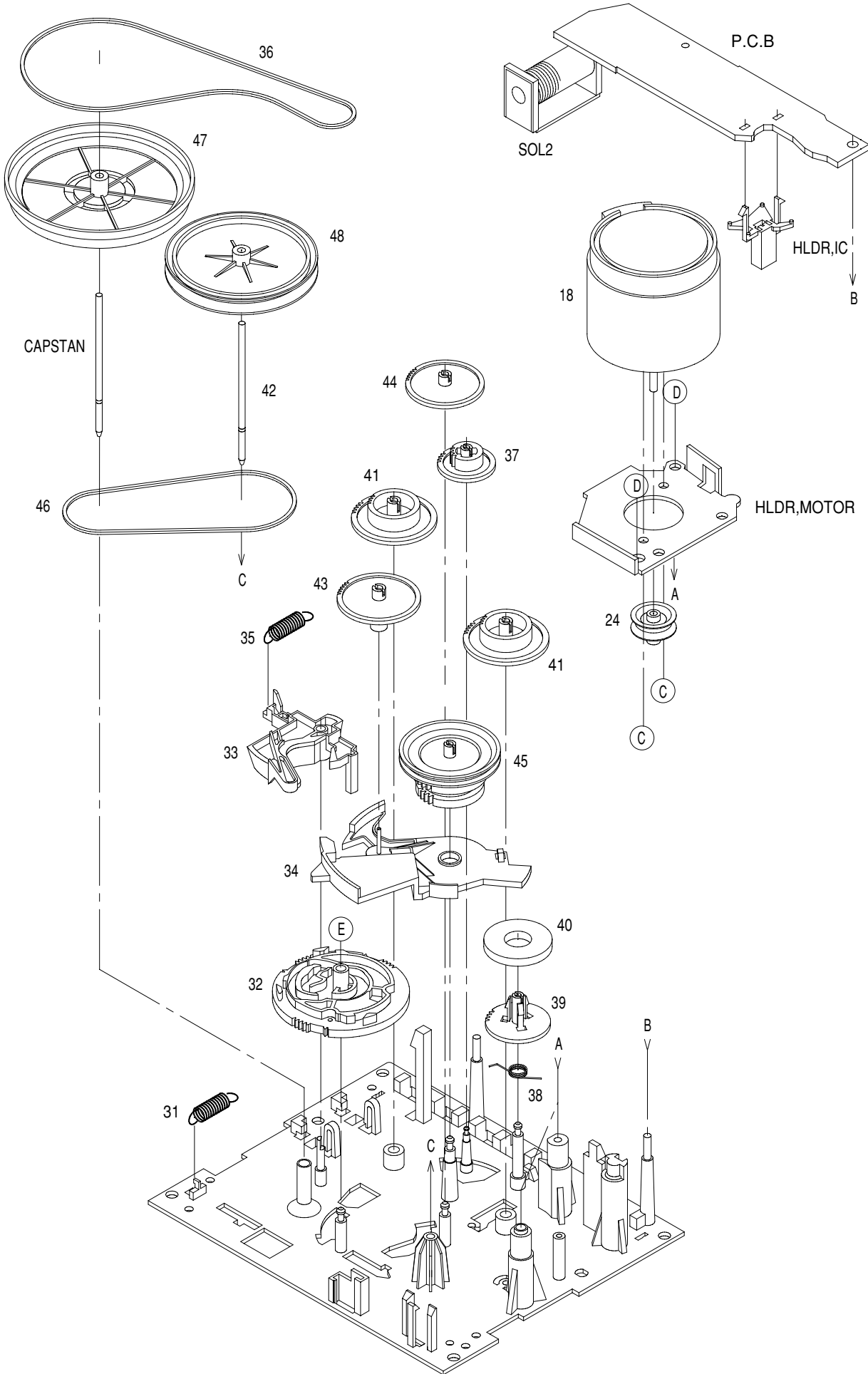
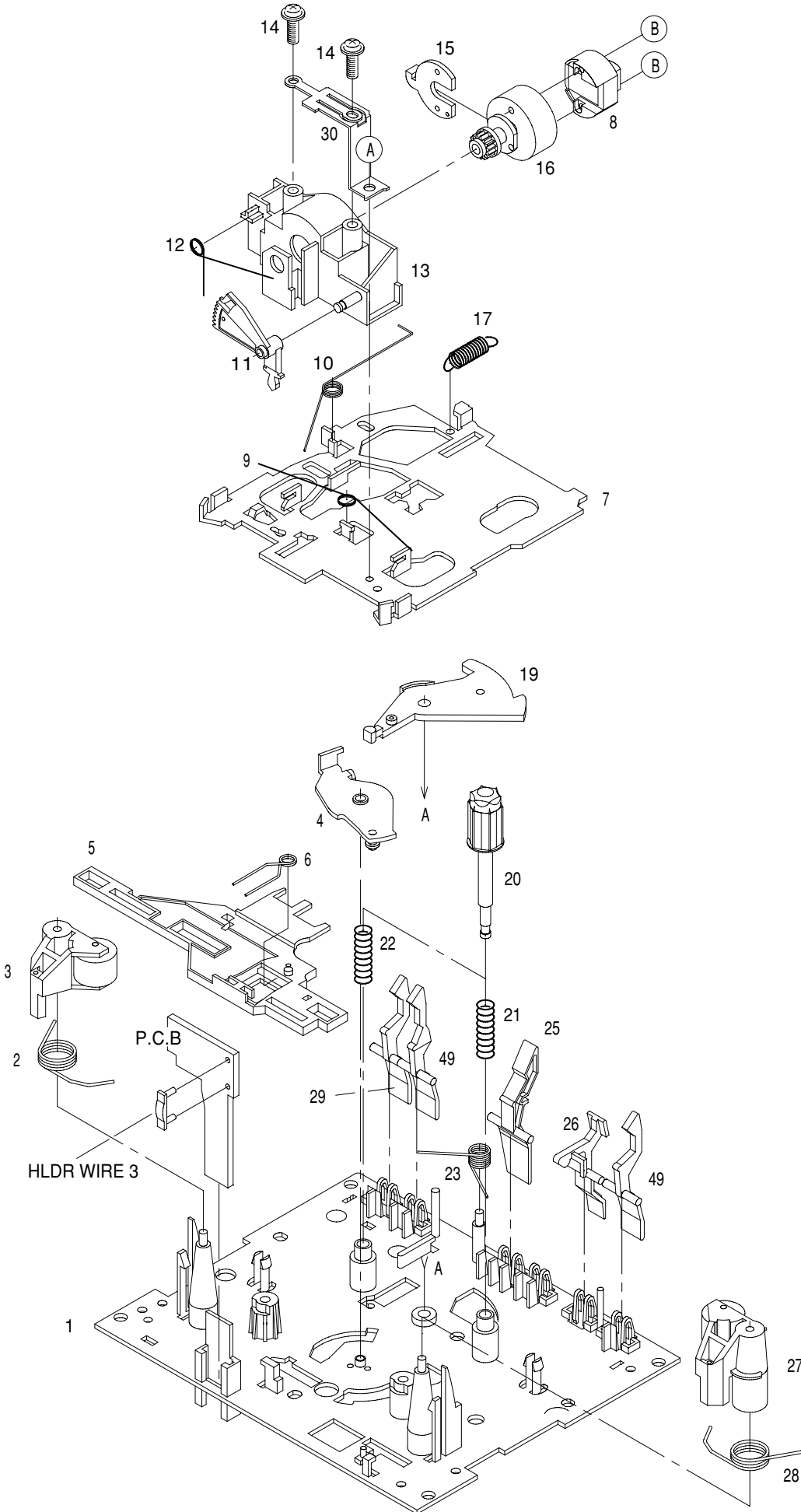
MECHANICAL PARTS LIST 1 / 1

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	82-ZM1-264-010		LVR,EJECT R	39	84-ZG1-245-210		CAP,OPTICAL
2	8A-CL8-201-010		FRAME,CASS	40	8A-CL8-014-110		PANEL,REAR EZ<EZ>
3	8A-CL8-002-110		CABI,FR EZ<EZ>	40	8A-CL8-018-010		PANEL,REAR HA<HA>
3	8A-CL8-001-110		CABI,FR U<EXCEPT EZ>	40	8A-CL8-015-010		PANEL,REAR HRJ<HR>
4	8A-CL8-053-010		WINDOW,CASS	40	8A-CL8-022-010		PANEL,REAR GSC<G>
5	8A-CL8-031-010		PANEL,CASS	40	8A-CL8-017-010		PANEL,REAR HS<HS>
6	8A-CL8-076-010		KNOB,RTRY VOL	40	8A-CL8-013-010		PANEL,REAR K<K>
7	8A-CL8-071-010		RING,VOL	40	8A-CL8-016-010		PANEL,REAR LH<LH>
8	8A-CL8-036-010		PANEL,TRAY	40	8A-CL8-011-010		PANEL,REAR U<U>
9	8A-CL8-041-010		PANEL,FR<EXCEPT EZ>	41	8A-CL8-228-010		HLDR,HT-SINK LF L
9	8A-CL8-042-010		PANEL,FR EZ<EZ>	42	8A-CL8-229-010		HLDR,HT-SINK LF R
10	8Z-CL7-107-010		BADGE,AIWA SILVER	43	8A-CL8-055-010		WINDOW, TOP
11	8A-CL8-051-010		WINDOW,PANEL	44	8A-CL8-026-010		CABI, TOP
12	8A-CL8-046-010		BASE, WINDOW PANEL	45	8A-CL8-226-010		HLDR, TRANS
13	8A-CL8-065-010		CAP, CONTROL	△ 46	87-099-811-010		PLUG,ADPTR CONV(K)<K>
14	8A-CL8-066-010		FRAME,CONTROL	△ 47	87-A80-105-010		AC CORD ASSY,AZ<HA>
15	8A-CL8-218-010		HLDR,PIVER	△ 47	87-A80-143-010		AC CORD ASSY,E BLK<K>
16	8A-CL8-217-010		COVER, WINDOW PANEL	△ 47	87-A80-092-010		AC CORD ASSY,EBLKFAI<HR,EZ,LH>
17	8A-CL8-204-010		GUIDE,LCD DISP	△ 47	87-A80-155-010		AC CORD ASSY,HS TS<HS>
18	8A-CL8-084-010		LENS,LCD DISP	△ 47	87-A80-110-010		AC CORD ASSY,U SPT-2W<U>
19	8A-CL8-230-010		HLDR,LCD DISP	△ 47	87-A80-146-010		AC CORD ASSY,G<G>
20	8A-CL8-202-010		GUIDE,LED FUNC	A	87-067-703-010		TAPPING SCREW, BVT2+3-10
21	8A-CL8-061-010		KEY,FUNC	B	87-571-032-410		VIT+2-3
22	8A-CL8-063-010		CAP, MODE	C	87-261-092-010		SCREW, V+3-4
23	8A-CL8-081-010		REFLECTOR,FUNC	D	87-B10-230-010		BVT2+3-10 W/O SLOT SILVER CR
24	8A-CL8-048-010		PLATE,FUNC	E	87-723-076-410		QT2+2.6-12 BLK
25	8A-CL8-072-010		RING,FUNC	F	87-B10-231-010		QT1+3-12 SILVER CR
26	8A-CL8-083-110		LENS,RC	G	87-B10-250-010		BVT2+3-12 W/O SLOT CR SILVER
27	82-NF5-229-010		PLATE,LOCK	H	87-067-758-010		BVT2+3-12 W/O SLOT
28	86-NF9-224-010		SPR-C, LOCK	I	87-581-170-410		UIT+4-8
29	87-NF4-217-110		HLDR,LOCK 2	J	87-761-095-410		VFT2+3-8 W/O SLOT
30	87-NF8-220-010		DMPR,150				
31	88-CL4-220-010		SPR-T,CASS				
32	8A-CL8-211-010		PULLEY,MOTOR				
33	8A-CL8-216-010		SLIDER,PANEL				
34	8A-CL8-215-010		BELT,1.4-97.1				
35	8A-CL8-213-010		GEAR,SLIDER				
36	8A-CL8-212-010		PULLEY,RELLAY				
37	8A-CL8-210-010		HLDR,MECHA				
38	8A-CL8-206-010		HLDR,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

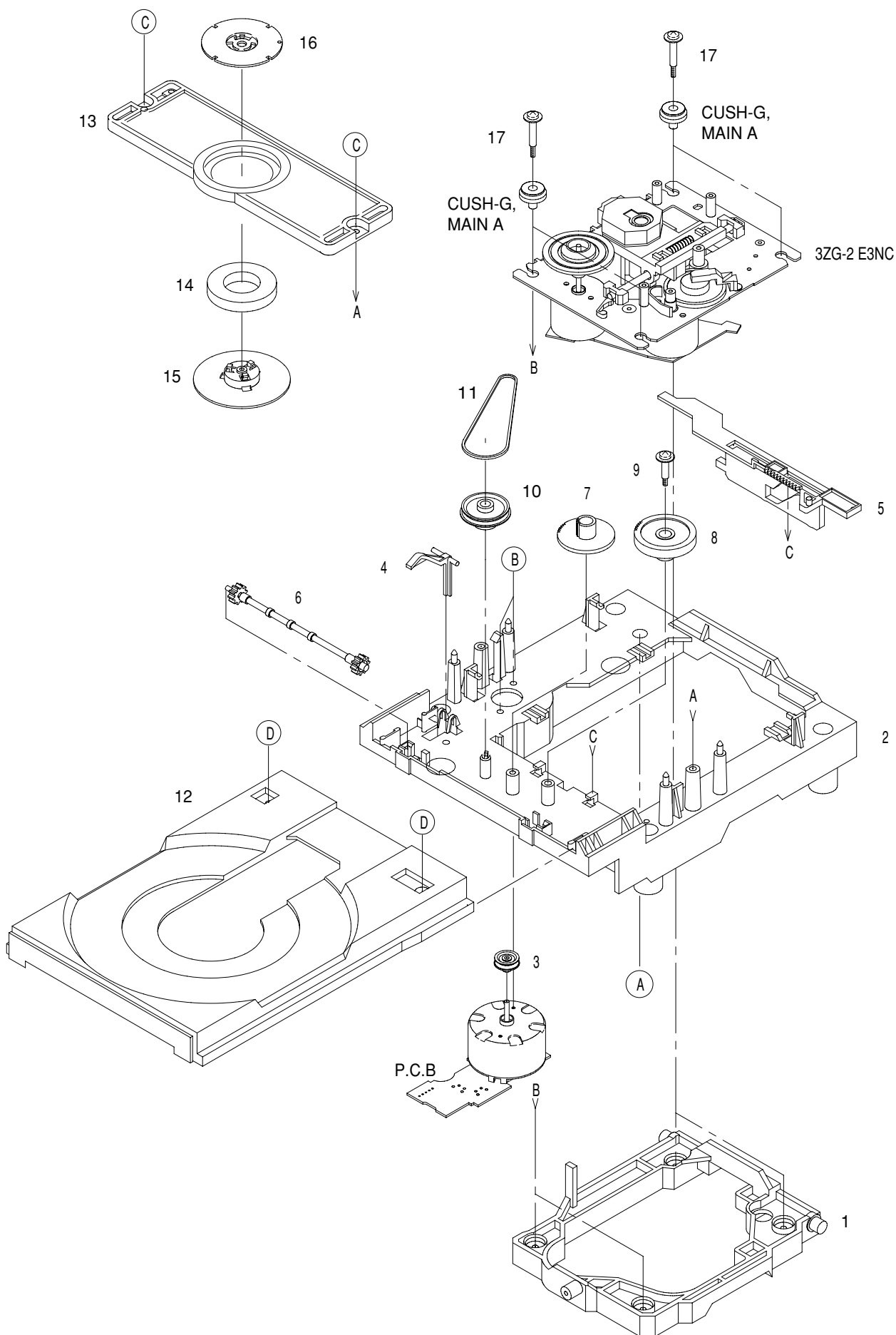
TAPE MECHANISM EXPLODED VIEW 1 / 1 (2ZM-1 YR9NC)



TAPE MECHANISM PARTS LIST 1 / 1 (2ZM-1 YR9NC)

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	82-ZM1-327-310		CHAS ASSY, RM	31	82-ZM1-255-310		SPR-E, LVR DIR
2	82-ZM1-258-210		SPR-T, PINCH L	32	82-ZM1-221-310		GEAR, CAM (*)
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-ZM1-224-410		LVR, FR
5	82-ZM1-266-310		LVR, DIR	35	82-ZM1-305-210		SPR-E, TRIG 2
6	82-ZM1-214-010		SPR-T, DIR	36	82-ZM1-340-010		BELT, SBU MAIN2
7	82-ZM1-206-910		CHAS, HEAD	37	82-ZM1-223-010		GEAR, PLAY
8	87-A91-176-010		HEAD, RPH HADKH56	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-ZM1-216-510		GEAR, REEL
12	82-ZM1-213-010		SPR-T, HEAD	42	82-ZM1-236-010		CAPSTAN, 2-41.5
13	82-ZM1-207-910		GUIDE, TAPE	43	82-ZM1-225-210		GEAR, FR
14	82-ZM1-283-310		S-SCREW, AZIMUTH	44	82-ZM1-226-010		GEAR, REW
15	82-ZM1-314-110		PLATE, HEAD	45	82-ZM3-333-310		SLIP DISK ASSY 2
16	82-ZM1-208-310		HLDL, HEAD	46	82-ZM1-338-110		BELT, FR 4
17	82-ZM1-218-010		SPR-E, HB	47	82-ZM1-349-110		FLY-WHL, R W
18	87-045-347-010		MOT, SHU2L 70	48	82-ZM1-348-110		FLY-WHL, L W
19	82-ZM1-222-210		LVR, PLAY	49	82-ZM1-241-310		LVR, MC
20	82-ZM1-217-410		REEL TABLE	A	82-ZM1-315-010		S-SCREW GUIDE TAPE
21	82-ZM1-244-510		SPR-C, BT	B	80-ZM6-207-010		V+1.6-7
22	82-ZM1-285-410		SPR-C, BT L	C	87-251-070-410		U+2.6-3
23	82-ZM1-257-010		SPR-T, CAS	D	87-741-073-410		UT2+2.6-6 GLD
24	82-ZM1-247-210		PULLEY, MOTOR	E	87-B10-008-010		W-P, 2.08-8-0.4-SLIP
25	82-ZM1-242-010		LVR, CAS				
26	82-ZM1-243-010		LVR, STOP				
27	82-ZM1-344-210		LVR ASSY, PINCH R2				
28	82-ZM1-259-210		SPR-T, PINCH R				
29	82-ZM1-240-110		LVR, REC (*)				
30	82-ZM1-298-010		SPR-P EARTH				

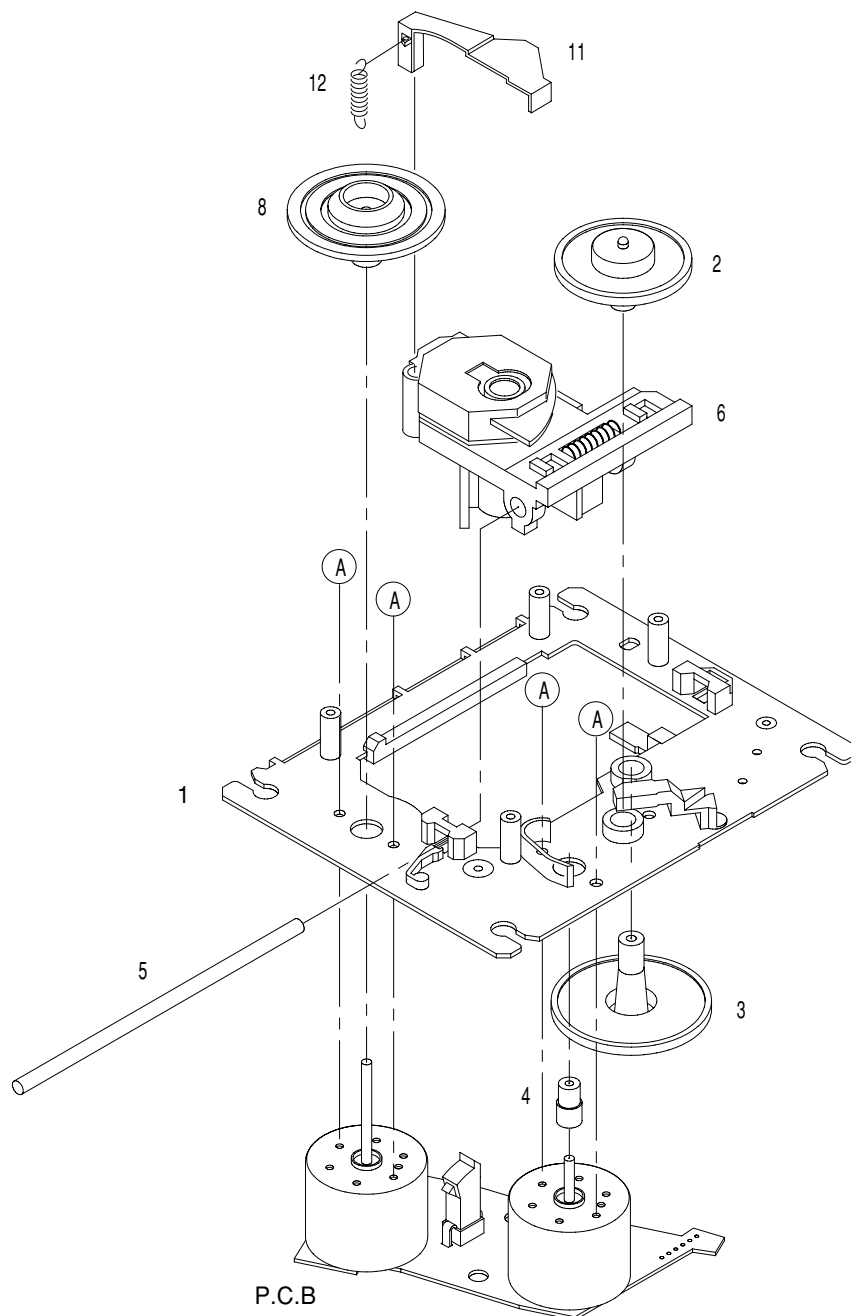
CD MECHANISM EXPLODED VIEW 1 / 2 (3ZG-3 E3NC)



CD MECHANISM PARTS LIST 1 / 2 (3ZG-3 E3NC)

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	83-ZG3-224-510		HLDR M2
2	83-ZG3-228-610		CHAS, L6
3	83-ZG3-208-010		PULLEY, MOTOR
4	83-ZG3-213-010		LVR, SW
5	83-ZG3-209-610		CAM, SLIDE
6	83-ZG3-207-010		GEAR, TRAY
7	83-ZG3-204-210		GEAR, C
8	83-ZG3-205-010		GEAR, D
9	83-ZG3-217-010		S-SCREW, GEAR D
10	83-ZG3-220-210		GEAR, PULLEY 2
11	83-ZG3-214-010		BELT, L
12	83-ZG3-229-410		TRAY, CD 2
13	83-ZG3-210-110		HLDR, CHUCK
14	83-ZG3-602-010		RING, MAG
15	83-ZG3-212-010		CAP, DISC
16	83-ZG3-211-010		PLATE, DISC
17	81-ZG1-254-010		S-SCREW, MECH HLDR
A	87-067-945-110		VFT2+3-12 (F10)
B	87-251-071-410		U+2.6-4
C	87-512-074-210		SCREW, 2+2.6-8
D	87-352-075-210		VT2+2.6-10

CD MECHANISM EXPLODED VIEW 2 / 2 (3ZG-2 E3NC)



CD MECHANISM PARTS LIST 2 / 2 (3ZG-2 E3NC)

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	83-ZG2-243-210		CHAS ASSY, SHT
2	83-ZG2-235-010		GEAR, A3
3	83-ZG2-205-210		GEAR, B
4	83-ZG2-236-010		GEAR MOTOR 3
5	83-ZG2-253-010		SHAFT, SLIDE 5
6	87-A90-836-010		PICKUP, KSS-213F
8	83-ZG2-227-210		TURN TABLE, C1
11	83-ZG2-245-410		LEVER, SHUTTER
12	83-ZG2-250-110		SPR-E, SHT 2
A	87-261-032-210		SCREW V+2-3

ACCESSORIES / PACKAGE LIST

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	8A-CL8-905-010		IB, E (9L) -C<EZ>
1	8A-CL8-910-010		IB, G (E) -C<G>
1	8A-CL8-902-010		IB, H (ECA) -C<HR>
1	8A-CL8-904-010		IB, K (E) -C<K>
1	8A-CL8-903-010		IB, LH (ESP) -C<HA, LH>
1	8A-CL8-901-010		IB, U (ESF) -C<U>
2	87-043-115-010		ANT, FEEDER FM<HR, U, HA, LH>
2	87-A90-118-010		ANT, WIRE FM (Z) <K, EZ, HS, G>
3	87-A90-030-010		ANT, LOOP AM-NC C
△	4	87-A91-017-010	PLUG, CONVERSION JT-0476<HR, LH>
5	8A-CLB-961-010		RC UNIT, RC-AAT11

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