

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 (^{13/16} 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)

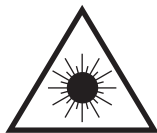
• Design and specifications are subject to change without notice.

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

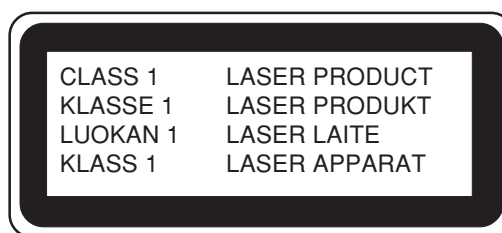
L'utilisation de commandes, réglages ou procédures autres que ceux spécifiés peut entraîner une dangereuse exposition aux radiations.

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.

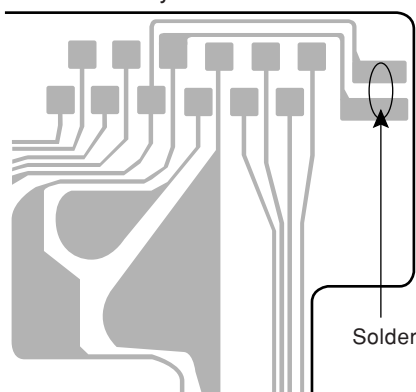


Precaution to replace Optical block (KSS – 213F)

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.

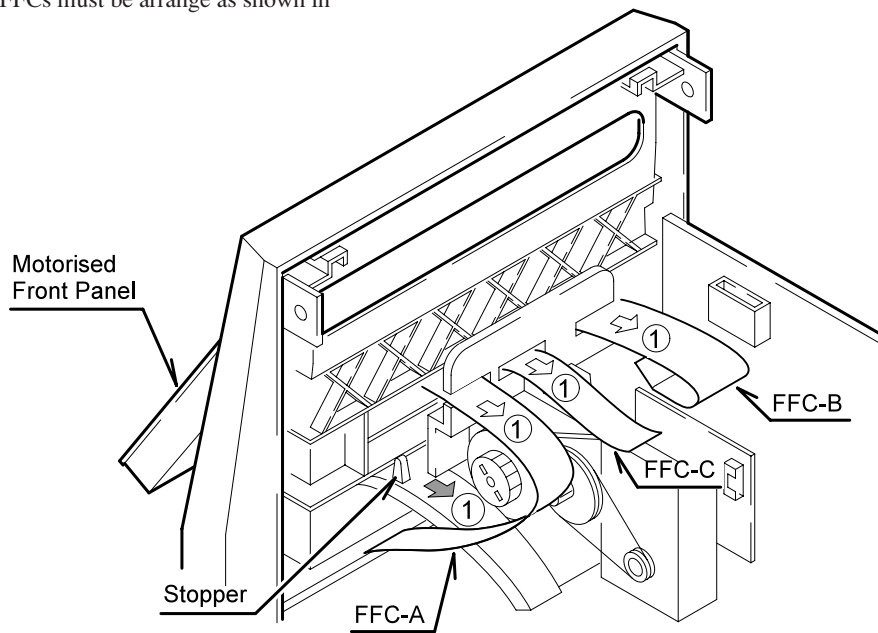


Fig - 1 Remove Slack of FFCs

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.

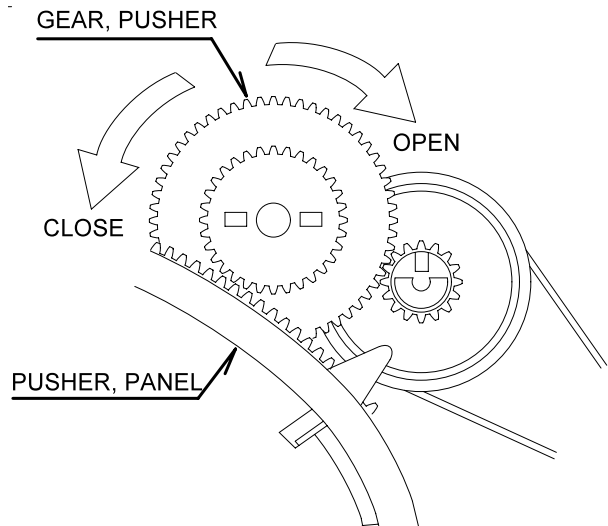


Fig - 2 GEAR, PUSHER

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.

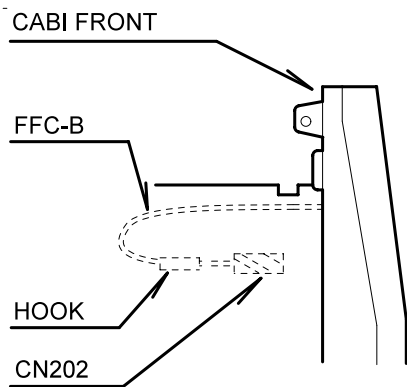


Fig - 4 FFC-B Side View

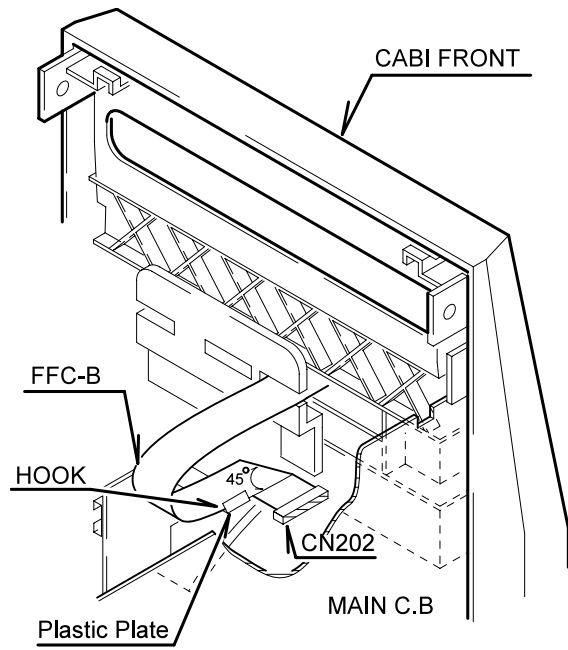


Fig - 3 FFC-B Top View

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).

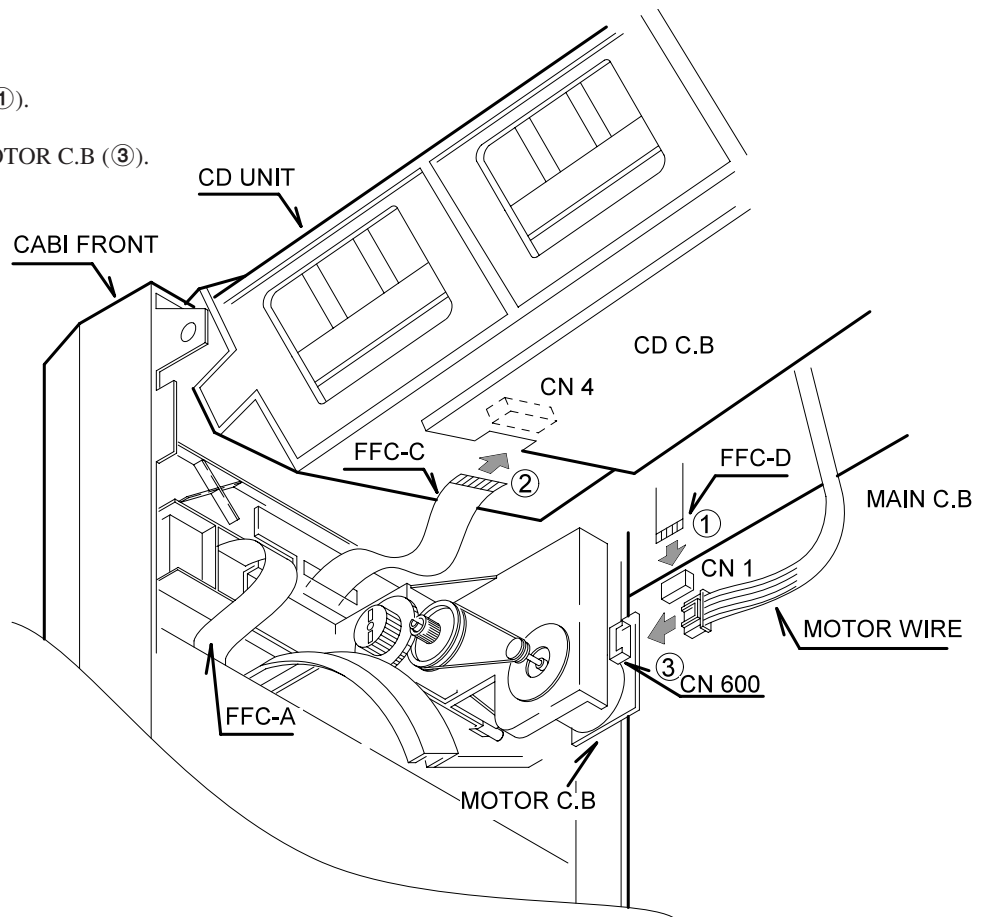


Fig - 5 Assembling CD unit

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.

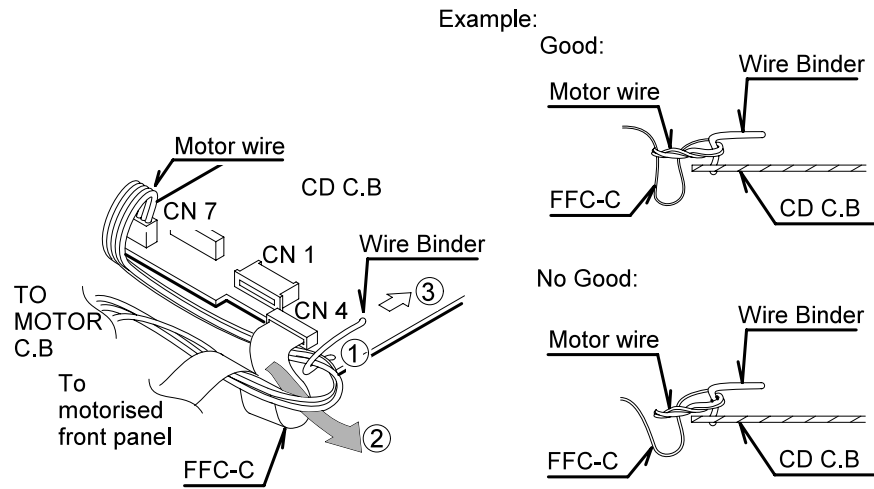


Fig - 6 Arranging FFC-C

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 |
| | | | | C13 | 87-010-197-080 | | CAP, CHIP 0.01DM |
| C309 | 87-010-198-080 | | CAP, CHIP 0.022 | C14 | 87-010-405-080 | | CAP, ELECT 10-50V |
| C313 | 87-010-071-040 | | CAP, E 1-50 M 5L SRE | C16 | 87-010-545-080 | | CAP, ELECT 0.22-50V |
| C314 | 87-A10-189-040 | | CAP, E 220-10 | C17 | 87-012-349-080 | | C-CAP, S 1000P-50 CH |
| C316 | 87-010-197-080 | | CAP, CHIP 0.01 DM | | | | |
| 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 | | | | |
| C344 | 87-010-318-080 | | C-CAP, S 47P-50 CH | C31 | 87-010-545-080 | | CAP, ELECT 0.22-50V |
| CN301 | 87-A61-247-010 | | CONN, 25P H | C32 | 87-010-374-080 | | CAP, ELECT 47-10V |
| CN303 | 87-A61-249-010 | | CONN, 15P H | C33 | 87-010-401-080 | | CAP, ELECT 1-50V |
| CN304 | 87-A61-248-010 | | CONN, 22P H | C34 | 87-010-182-080 | | C-CAP, S 2200P-50KB<U, LH> |
| FFC301 | 8A-CL8-704-110 | | FF-CABLE, 25P 1.0 240MM | C34 | 87-010-186-080 | | CAP, CHIP 4700P<EXCEPT U, LH> |
| FFC303 | 8A-CL8-706-010 | | FF-CABLE, 15P 1.0 170MM | C35 | 87-010-197-080 | | CAP, CHIP 0.01DM |
| FFC304 | 8A-CL8-705-110 | | FF-CABLE, 22P 1.0 210MM | C36 | 87-010-374-080 | | CAP, ELECT 47-10V |
| LCD301 | 8A-CL8-682-010 | | LCD, ACL8 | C37 | 87-010-404-080 | | CAP, ELECT 4.7-50V |
| LED301 | 87-A40-229-040 | | LED, SLR-342VR TB7 RED | C38 | 87-010-196-080 | | CHIP CAPACITOR, 0.1-25 |
| LED307 | 87-A40-831-010 | | LED, SELU1E10CKM-LF70 BLUE-DEF | C39 | 87-012-349-080 | | C-CAP, S 1000P-50 CH |
| LED308 | 87-A40-831-010 | | LED, SELU1E10CKM-LF70 BLUE-DEF | C40 | 87-010-147-080 | | C-CAP, S 3P-50 CH |
| S301 | 87-A90-095-080 | | SW, TACT EVQ11G04M | C41 | 87-A10-294-080 | | CAP, M 8200P-50 J |
| S303 | 87-A90-095-080 | | SW, TACT EVQ11G04M | C42 | 87-010-314-080 | | C-CAP, S 22P-50V |
| S310 | 87-A90-095-080 | | SW, TACT EVQ11G04M | C45 | 87-010-196-080 | | CHIP CAPACITOR, 0.1-25 |
| S312 | 87-A90-095-080 | | SW, TACT EVQ11G04M | C46 | 87-010-196-080 | | CHIP CAPACITOR, 0.1-25 |
| | | | | 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 | PAMP C.B | | | |
| C50 | 87-012-140-080 | | CAP,470P | | | | |
| C51 | 87-010-994-080 | | C-CAP,S 680P-50 CH | C203 | 87-010-400-080 | | CAP,ELECT 0.47-50V |
| C57 | 87-010-316-080 | | C-CAP,S 33P-50 CH | C204 | 87-010-400-080 | | CAP,ELECT 0.47-50V |
| C58 | 87-010-316-080 | | C-CAP,S 33P-50 CH | 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 | C230 | 87-010-544-080 | | CAP,ELECT 0.1-50V |
| C94 | 87-010-197-080 | | CAP,CHIP 0.01DM | C231 | 87-010-196-080 | | CHIP CAPACITOR,0.1-25 |
| C95 | 87-010-197-080 | | CAP,CHIP 0.01 DM | C232 | 87-010-196-080 | | CHIP CAPACITOR,0.1-25 |
| C96 | 87-010-221-080 | | CAP,ELECT 470-10V | 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 | TH201 | 87-A91-042-080 | | C-THMS,100K 55001 |
| C150 | 87-010-263-080 | | CAP,ELECT 100-10V | TH202 | 87-A91-042-080 | | C-THMS,100K 55001 |
| C151 | 87-010-197-080 | | CAP,CHIP 0.01 DM | | | | |
| 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 | 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 |
| DECK C.B | | | | DRIVE C.B | | | |
| CON1 | 87-009-352-010 | | CONN, 9P H WHT PH | | | | |
| SFR1 | 87-024-581-010 | | SFR, 3.3K H KV5F637A | | | | |
| 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 | | | | |
| | | | | | | | HEAD C.B<G ONLY> |
| | | | | CN301 | 88-CL4-701-010 | | CONN ASSY, 7P RPEH<G> |

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



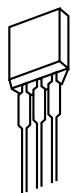
A
抵抗部品コード
Resistor Code

桁表示
Figure
抵抗値
Value of resistor

チップ抵抗
Chip resistor

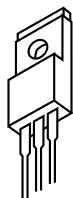
| 容量 Wattage | 種類 Type | 許容誤差 Tolerance | 記号 Symbol | 寸法/Dimensions (mm) | | | 抵抗コード : A Resistor Code : A | |
|---------------|------------|-------------------|--------------|--------------------|-----|------|--------------------------------|-----|
| | | | | 外形/Form | L | W | | t |
| 1/16W | 1005 | ± 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



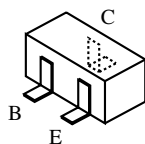
E C B

2SA1296
2SC1815
KTC3198



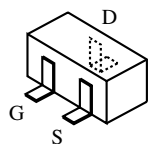
E C B

2SA952
CC5551



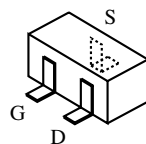
C
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2SA1235 DTA144EK
2SA1514 DTA144TK
2SC2712 DTC114TK
2SC2714 DTC144EK
2SC3052 KRA102S
2SD1306 RT1P141C
CMBT5551 RT1P144C
CSD1306



D
G
S

2SJ461
2SK2158



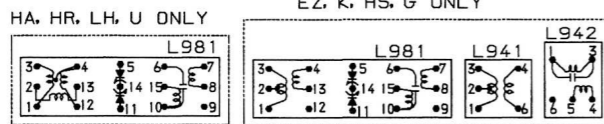
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2SK543

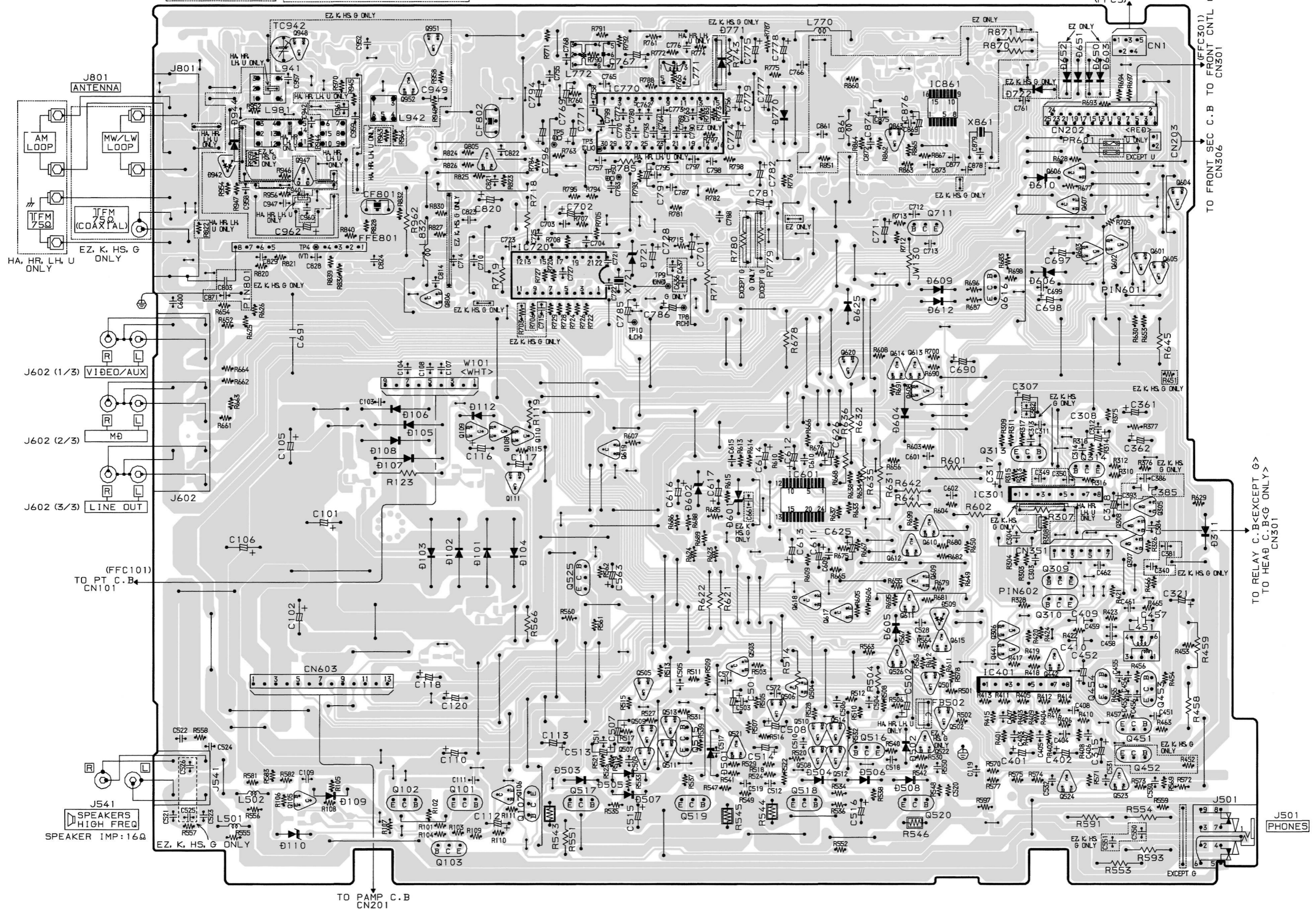


E C B

2SC3331

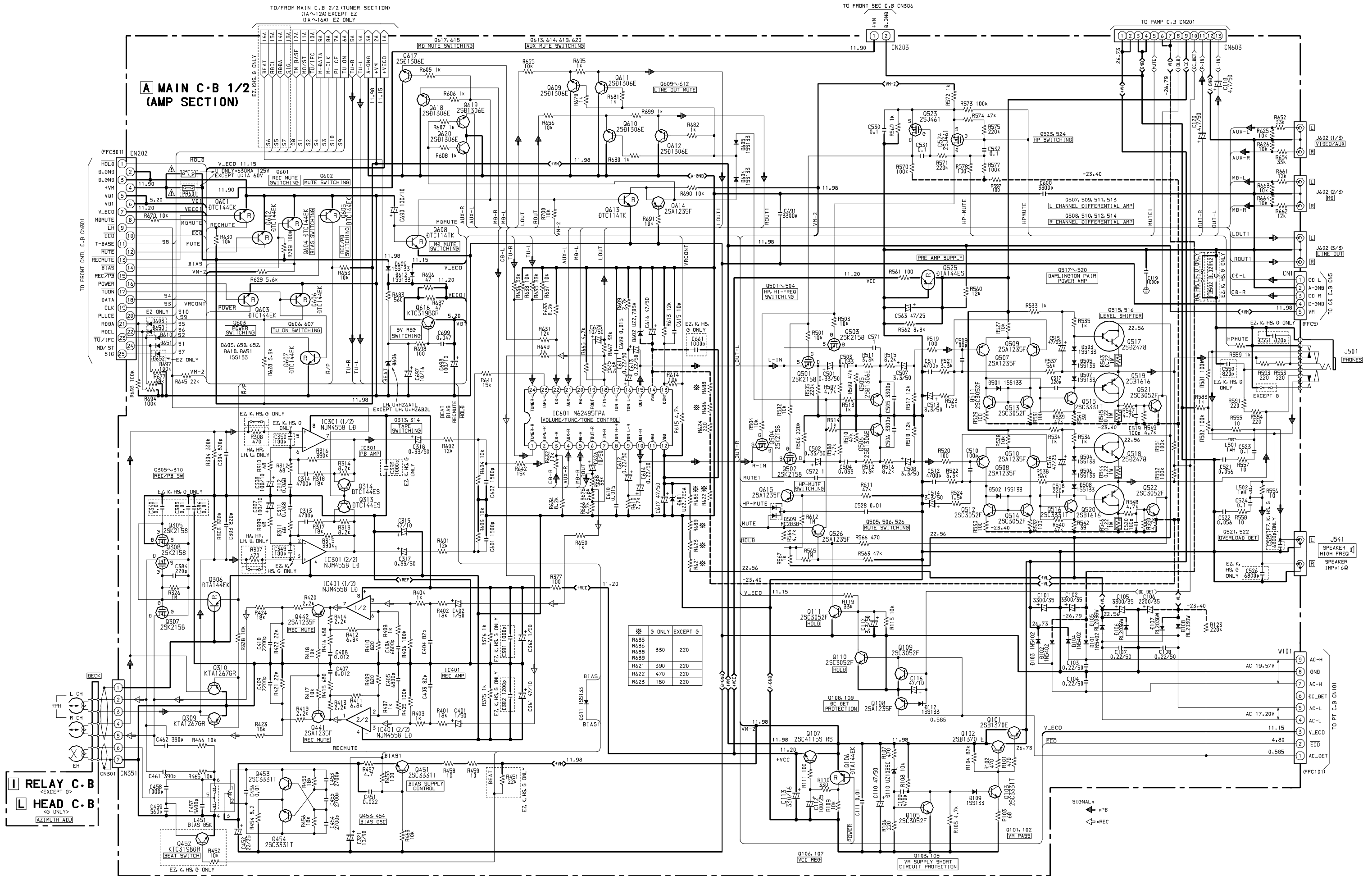


A MAIN C.B

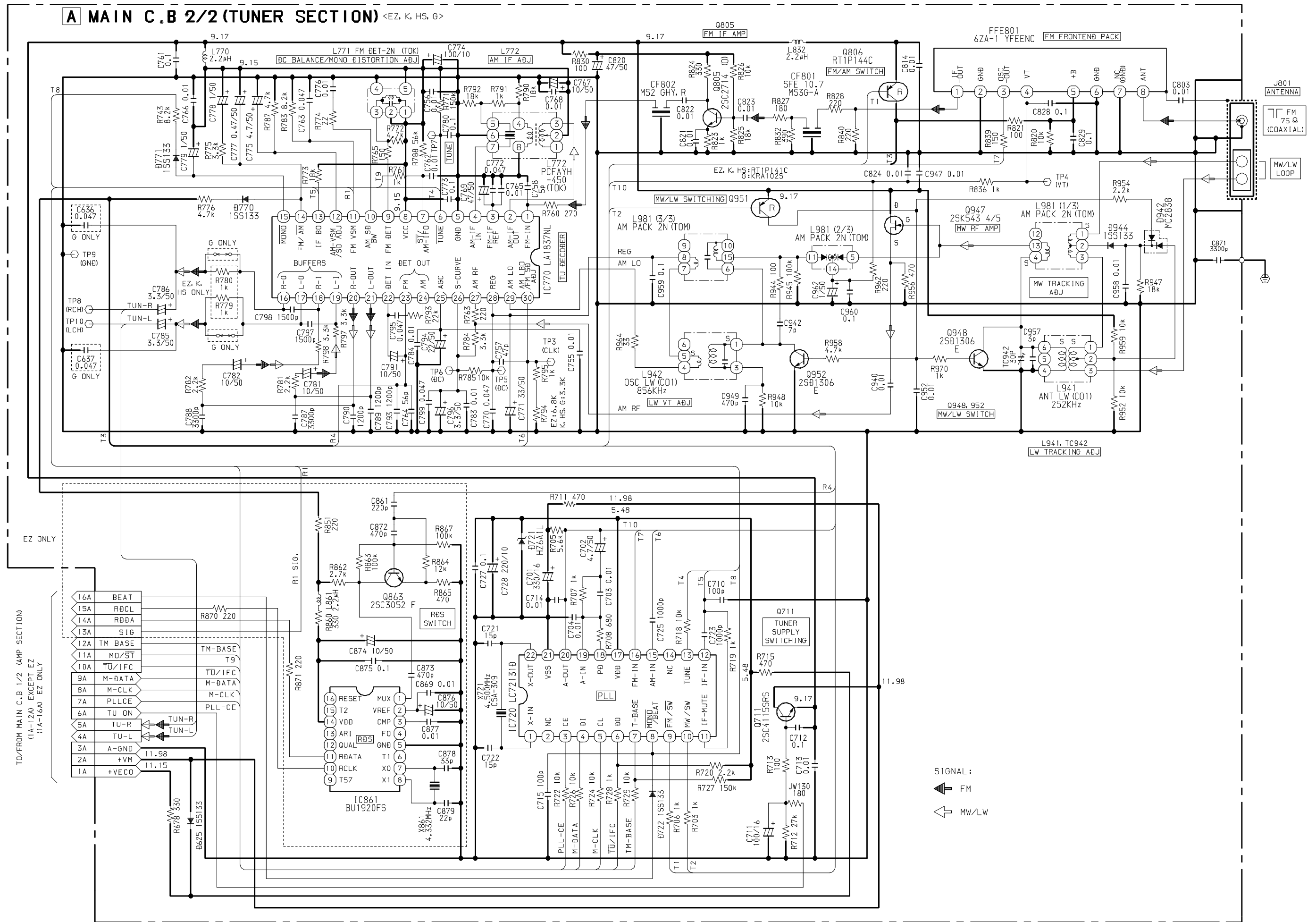


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SCHEMATIC DIAGRAM - 1 (MAIN : 1/2 <AMP SECTION> / RELAY / HEAD)



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

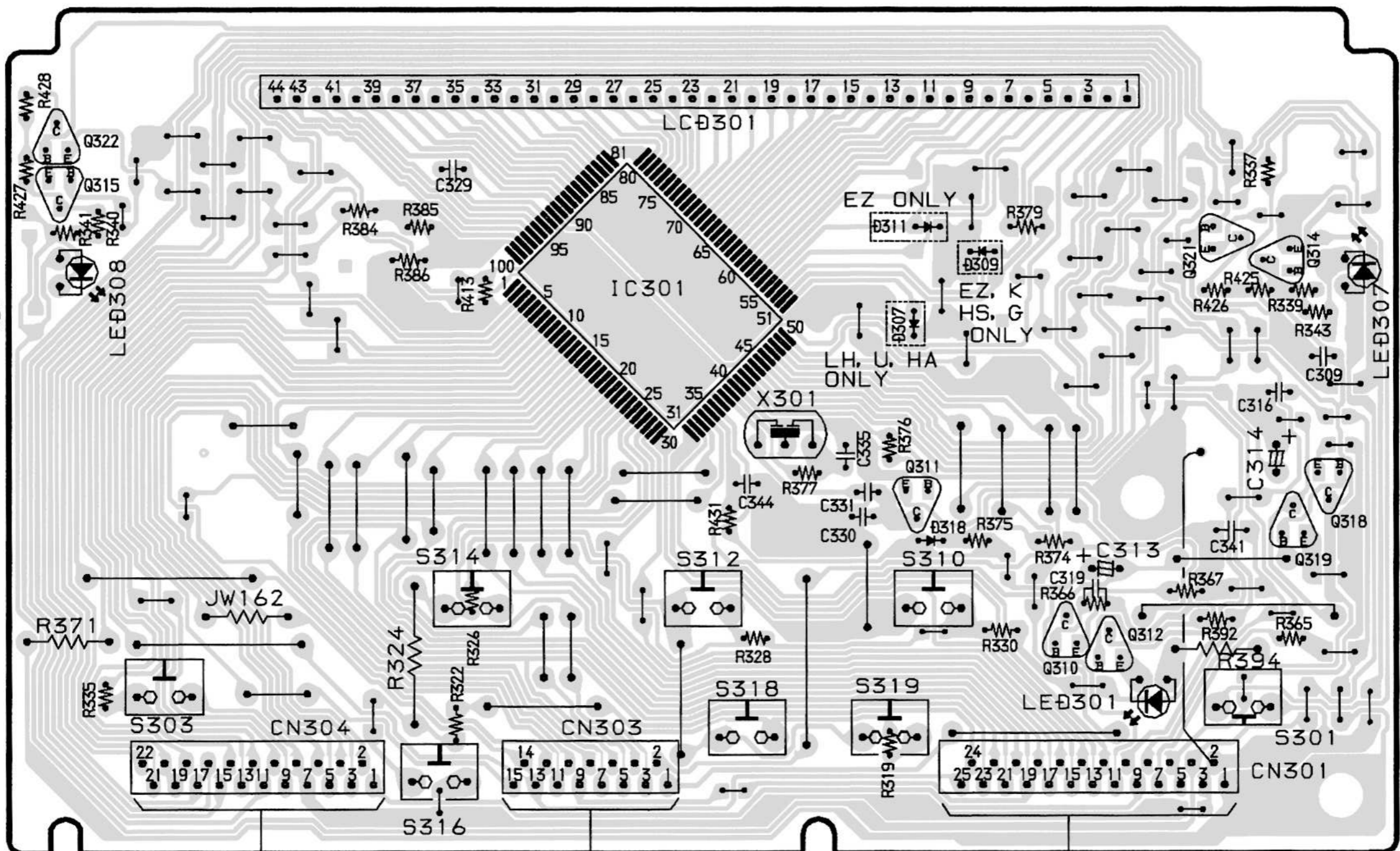


B FRONT CNTL C.B

LCB301
DISPLAY

LED308
LCD
(BACKLIGHT)

LED307
LCD
(BACKLIGHT)



(FFC304) TO FRONT SEC C.B
CN305

(FFC303) TO CD C.B
CN4

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

S303
▲ OPEN/CLOSE

S314
▶▶/▶▶ TUNING UP

S312
◀◀/◀◀ DIR/PRESET

S310
◀◀/◀◀ TUNING DOWN

S301
POWER

S316
● REC/REC MUTE

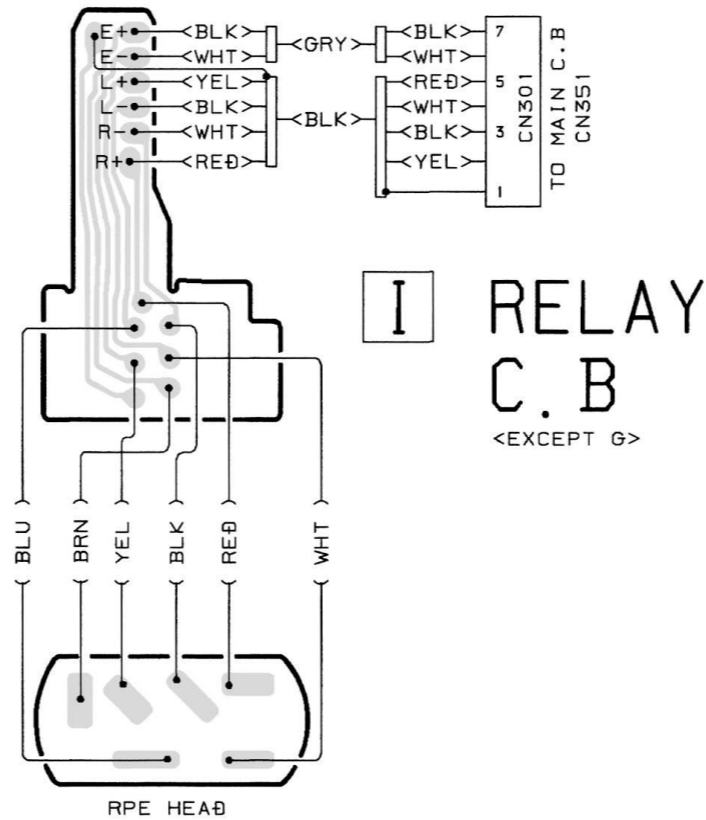
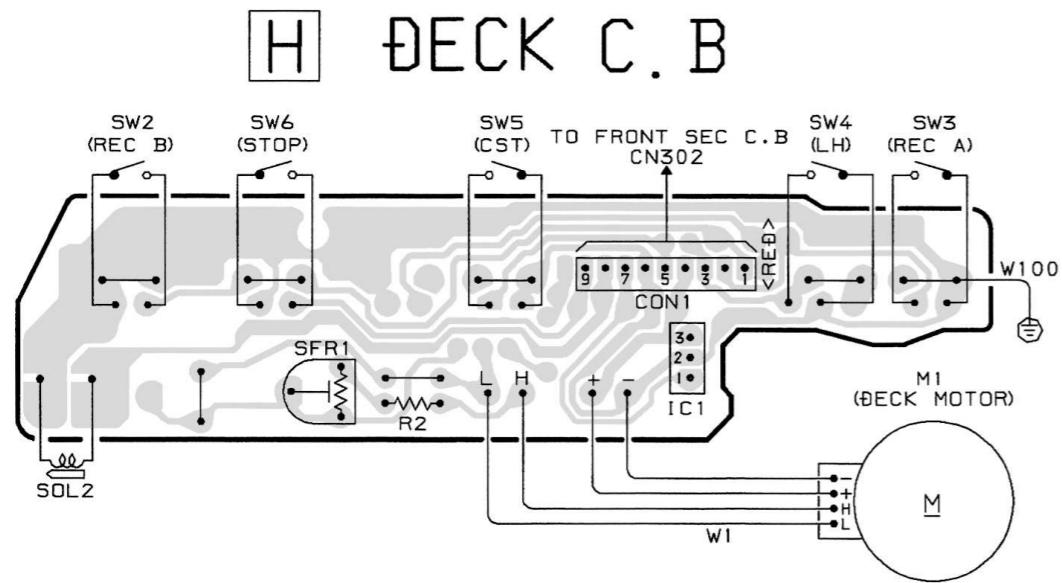
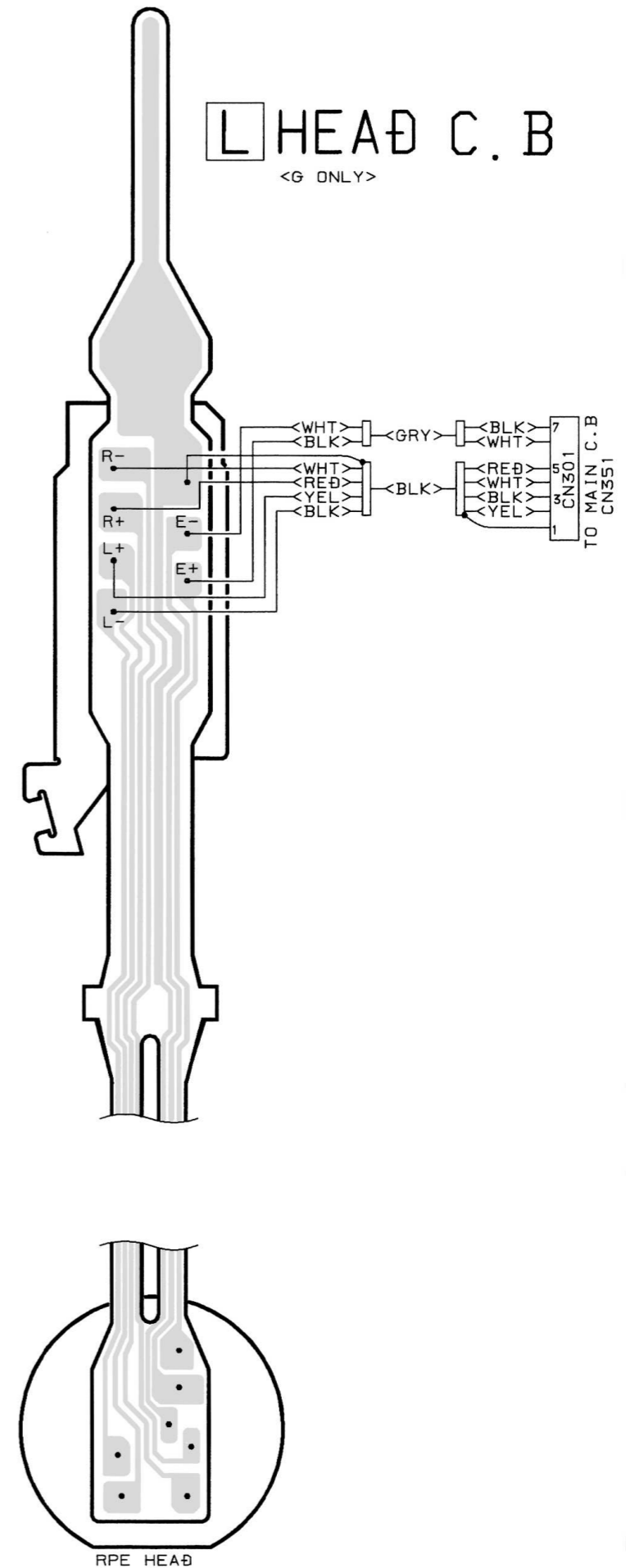
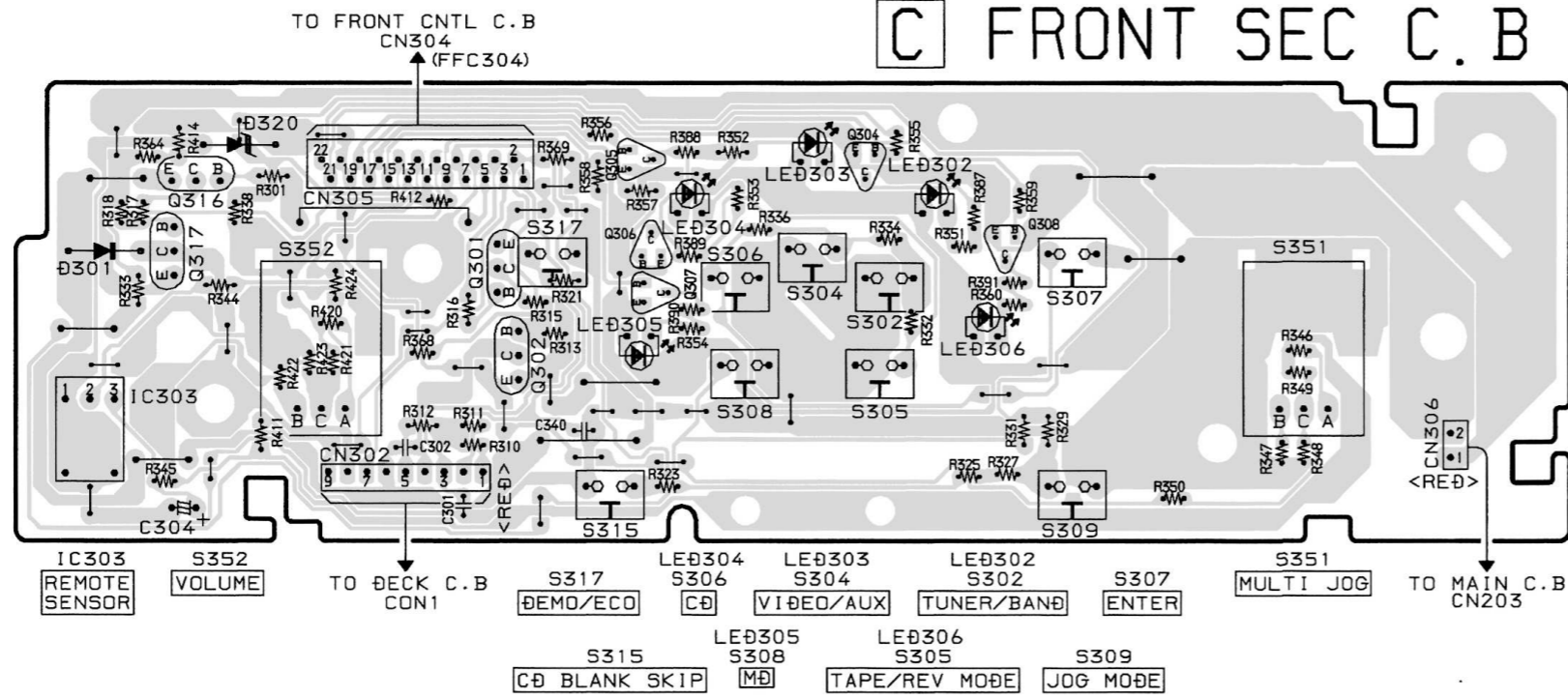
S318
■ CLEAR

S319
|| SET

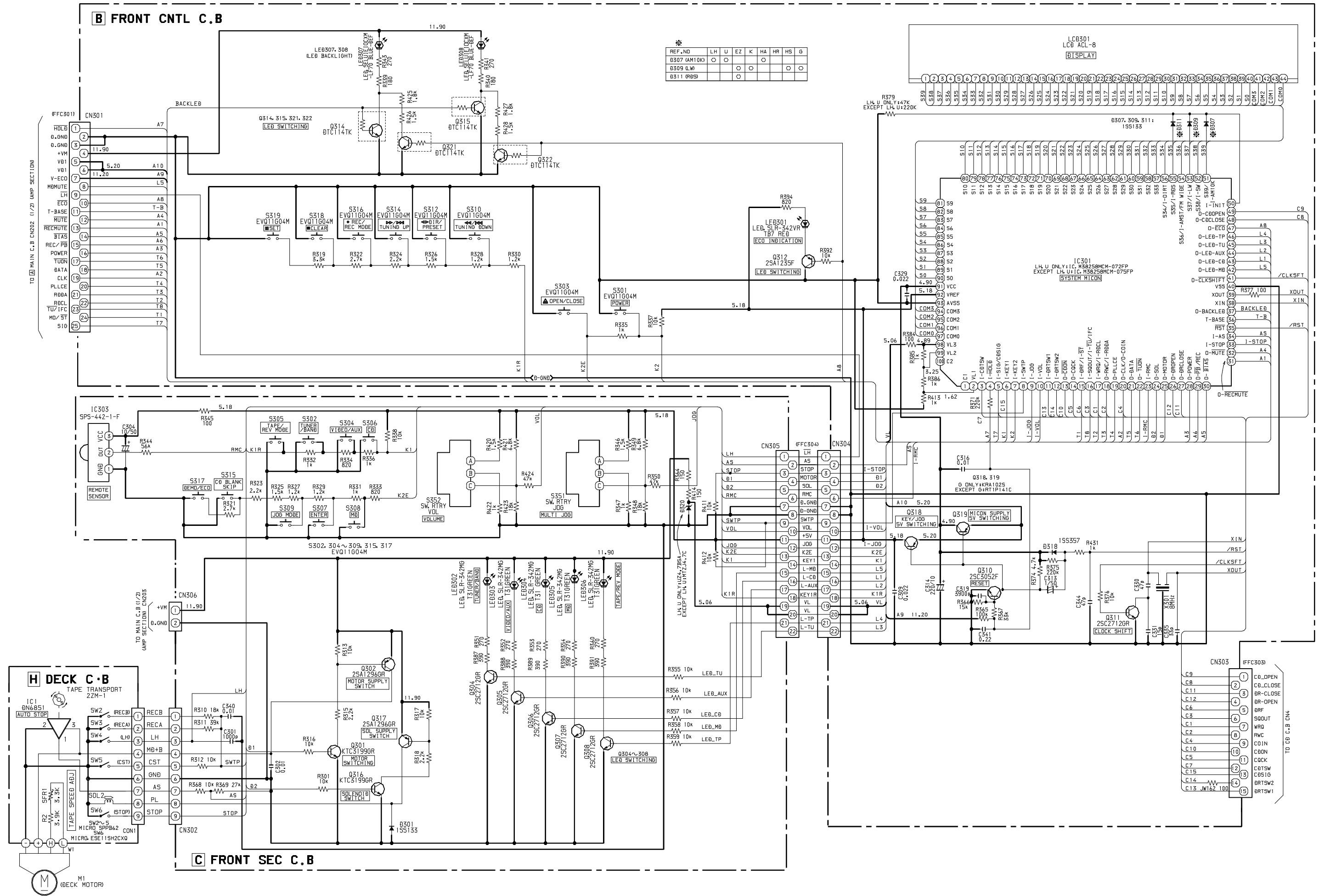
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| 32 | 31 | 30 | 29 | 28 | 27 | 26 | 25 | 24 | 23 | 22 | 21 | 20 | 19 | 18 | 17 | 16 | 15 | 14 | 13 | 12 | 11 | 10 | 9 | 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 |
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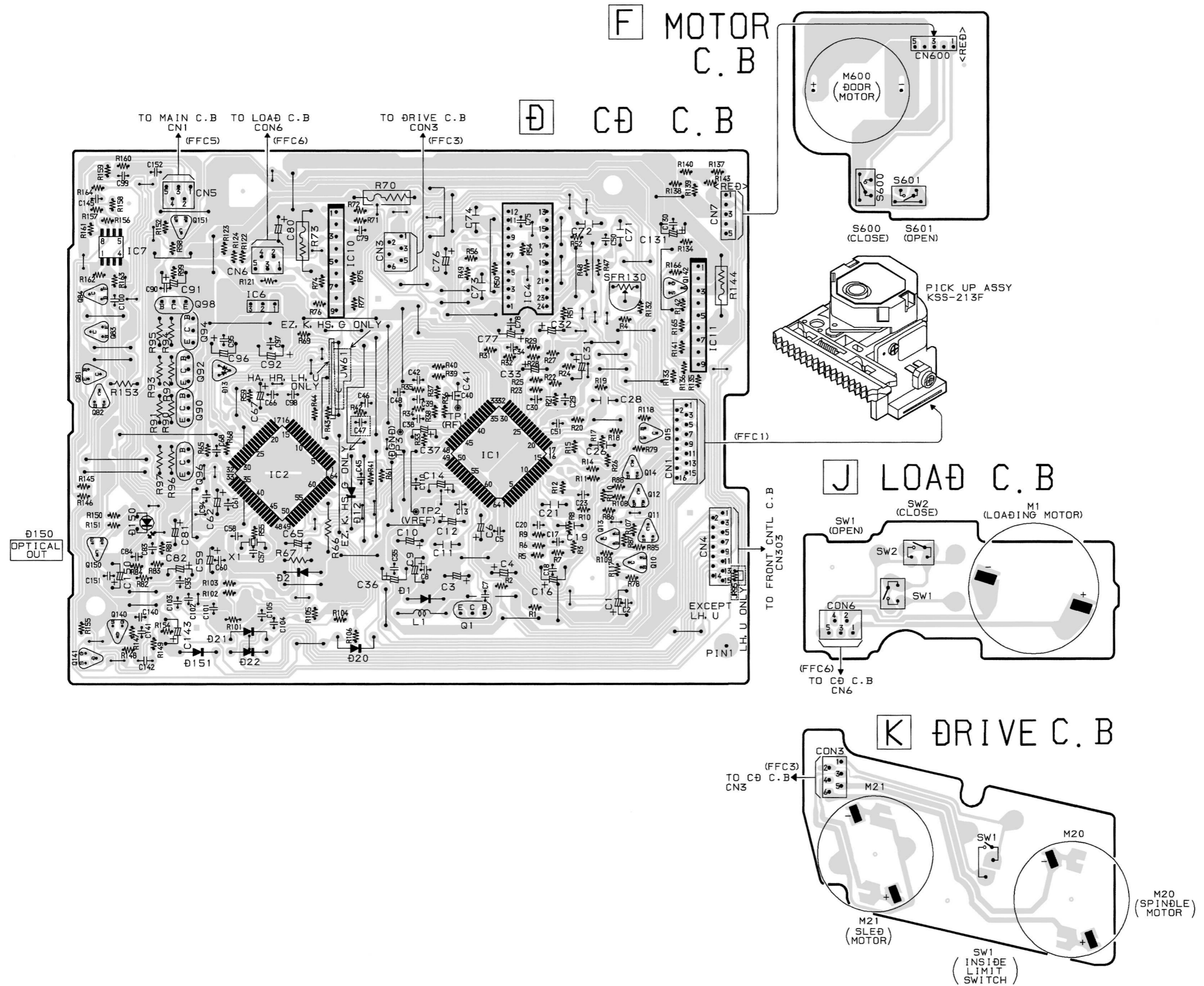


SCHEMATIC DIAGRAM - 4 (FRONT CNTL / FRONT SEC / DECK)

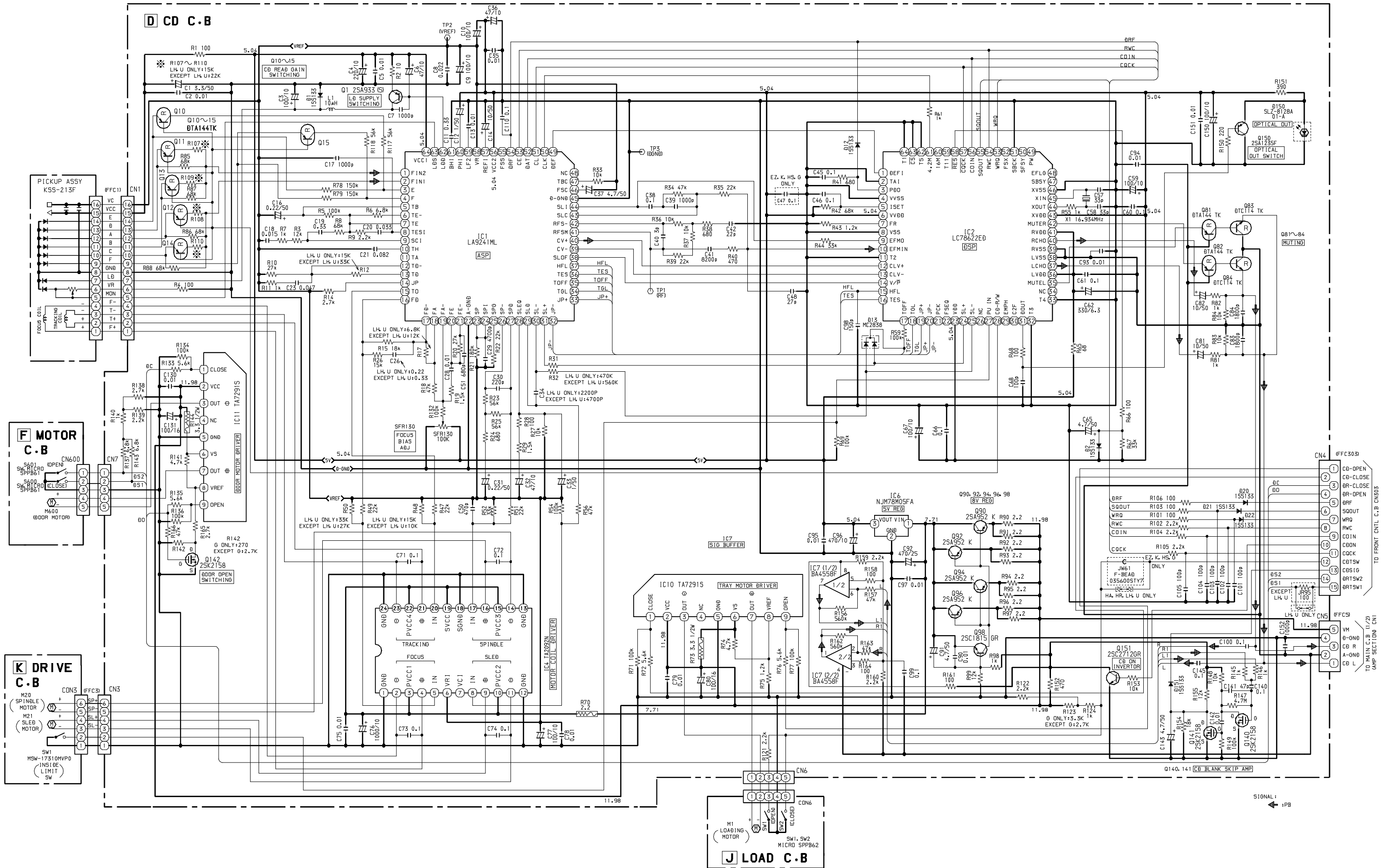


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| 32 | 31 | 30 | 29 | 28 | 27 | 26 | 25 | 24 | 23 | 22 | 21 | 20 | 19 | 18 | 17 | 16 | 15 | 14 | 13 | 12 | 11 | 10 | 9 | 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 |
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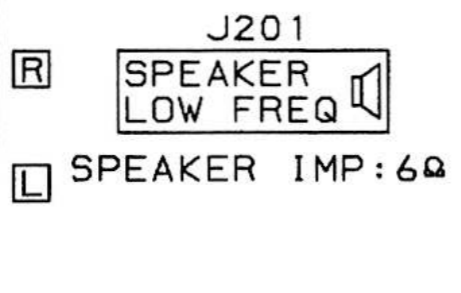
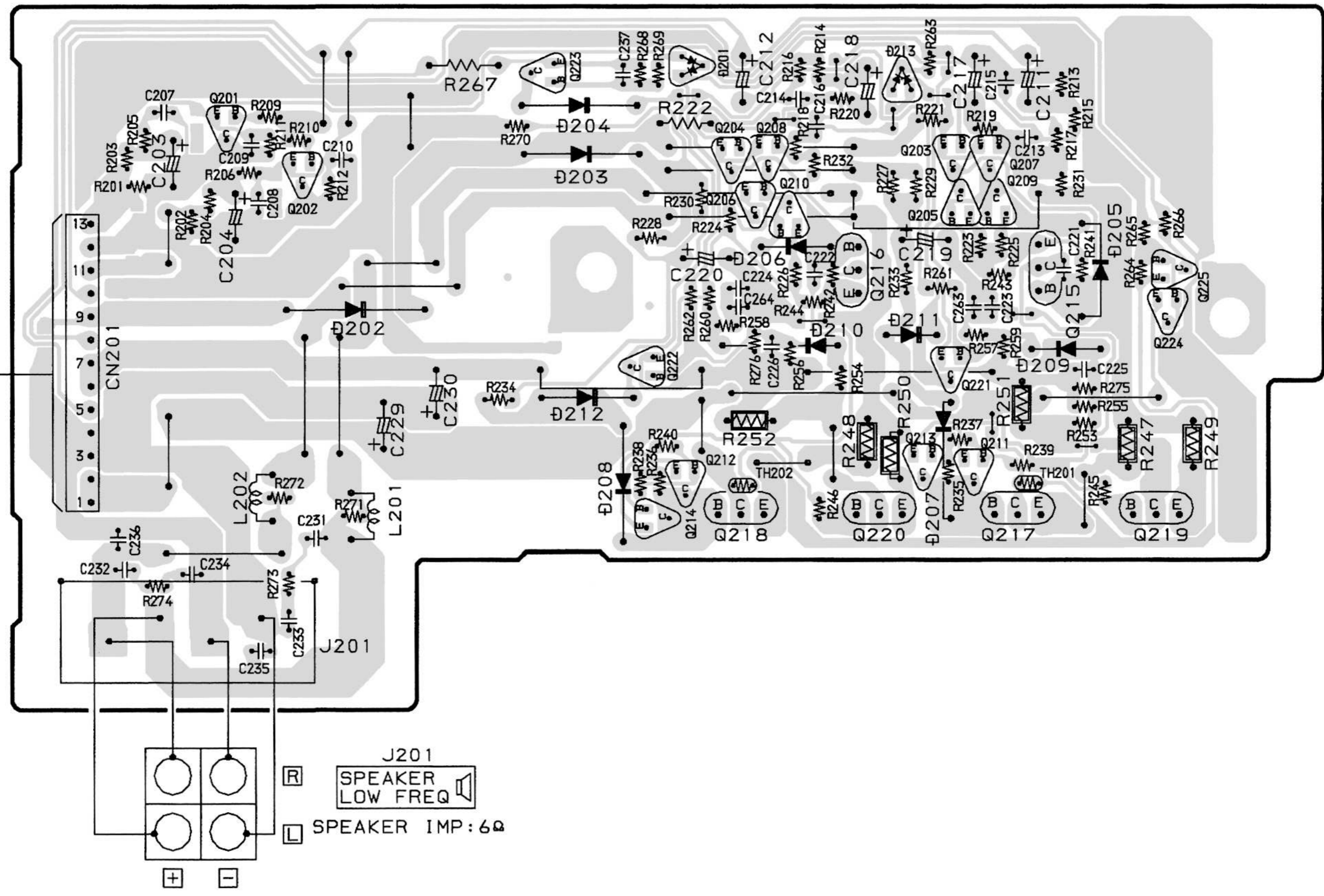


SCHEMATIC DIAGRAM - 5 (CD / MOTOR / LOAD / DRIVE)



E PAMP C.B

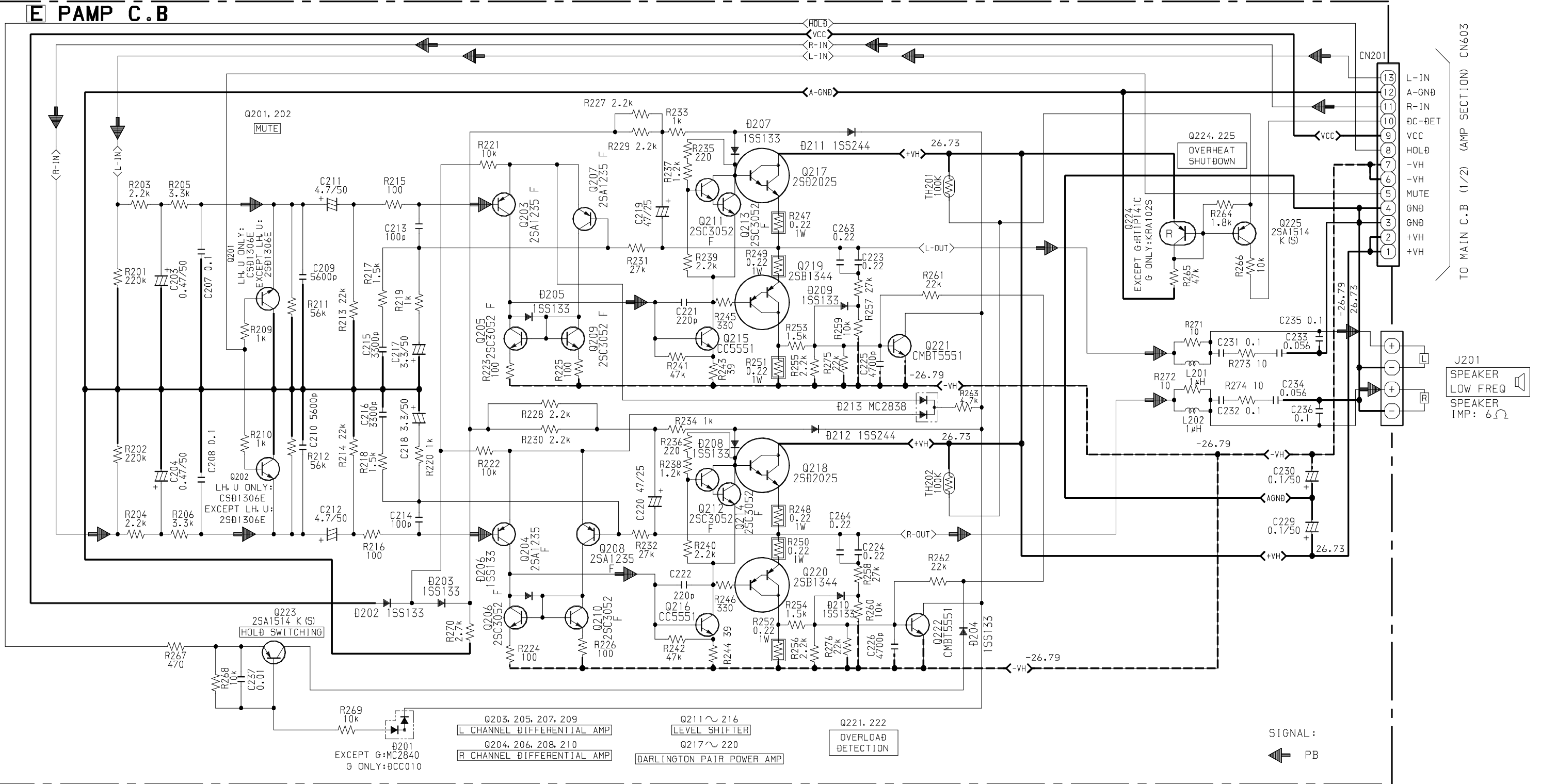
TO MAIN C.B
CN603



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SCHEMATIC DIAGRAM - 6 (PAMP)

E PAMP C.B



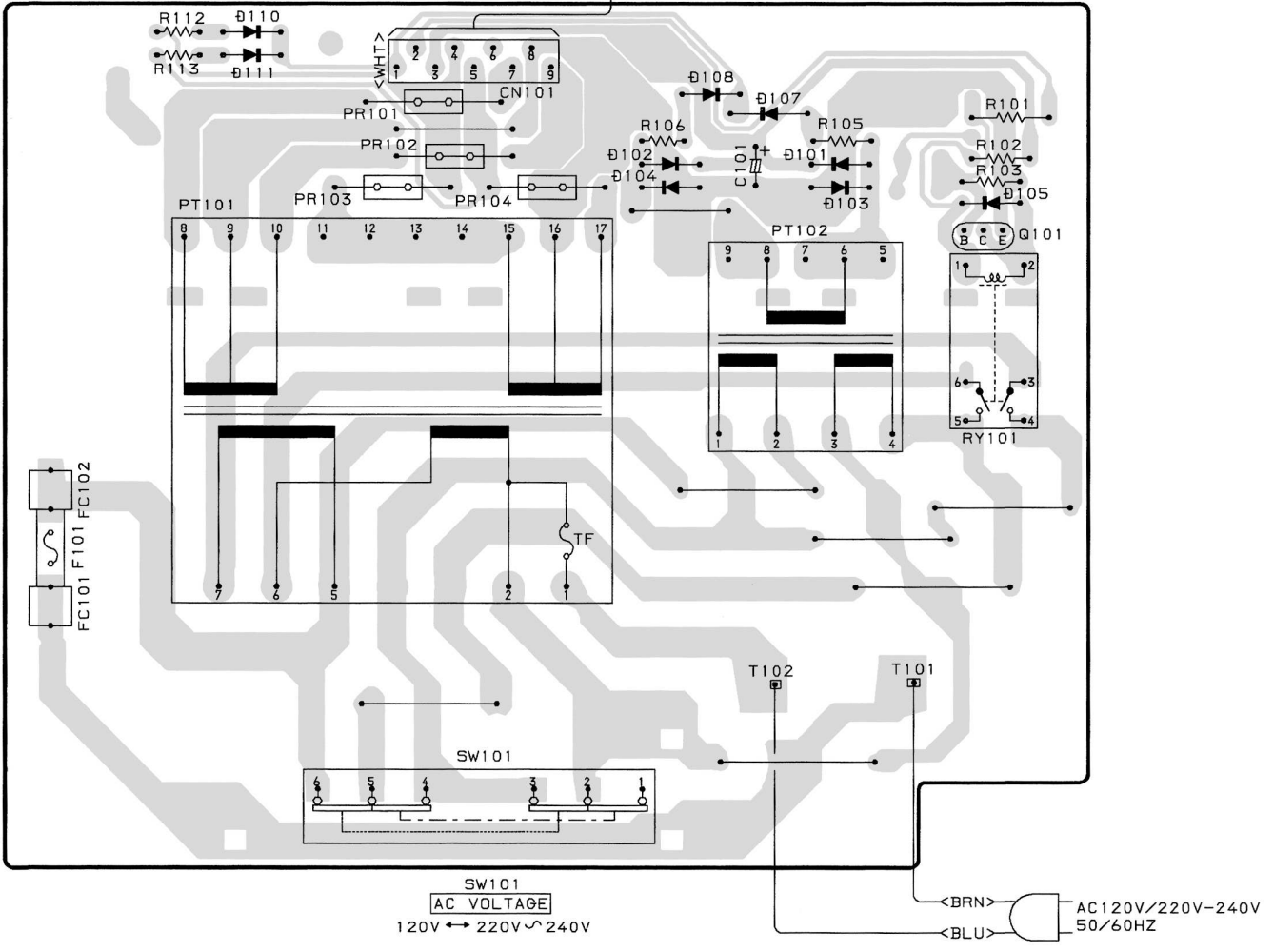
TO MAIN C.B (1/2) (AMP SECTION) CN603

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

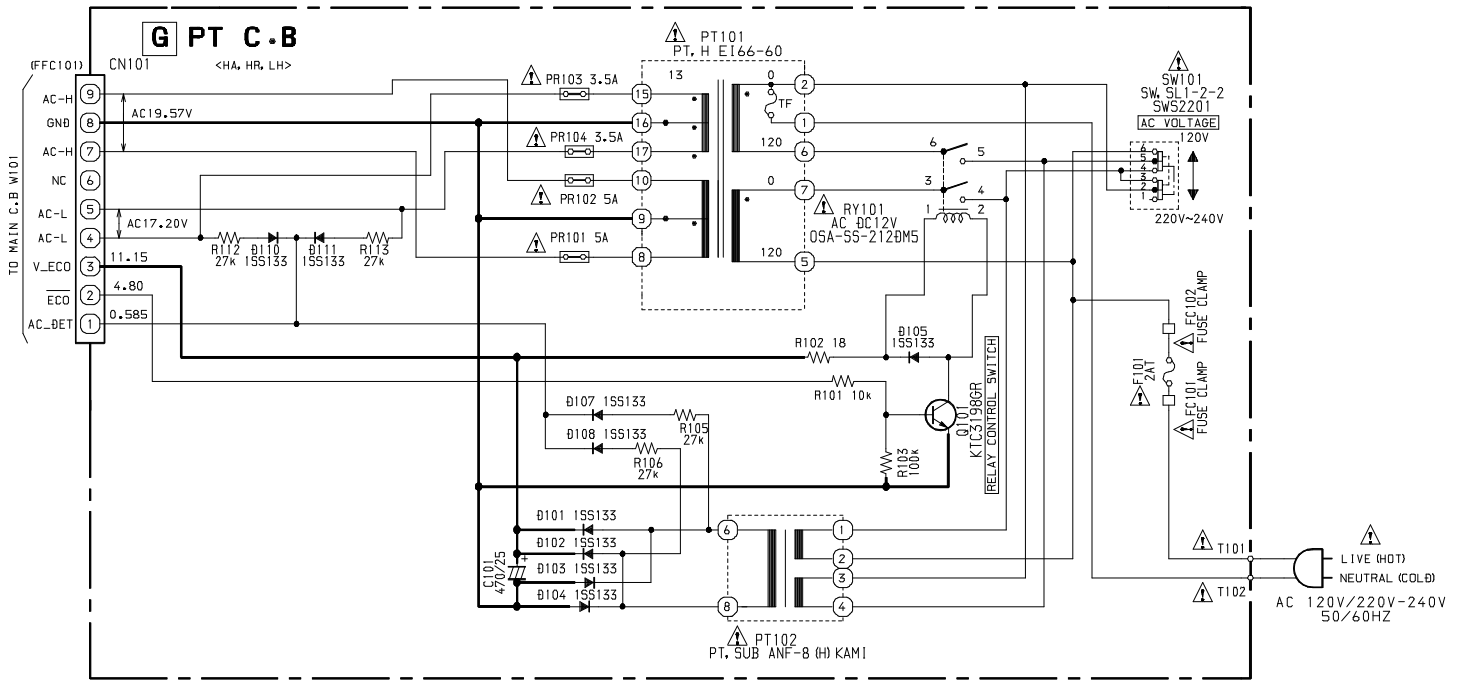
| | | | | | | | | | | | | | | |
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G PT C.B. <HA, HR, LH ONLY>



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



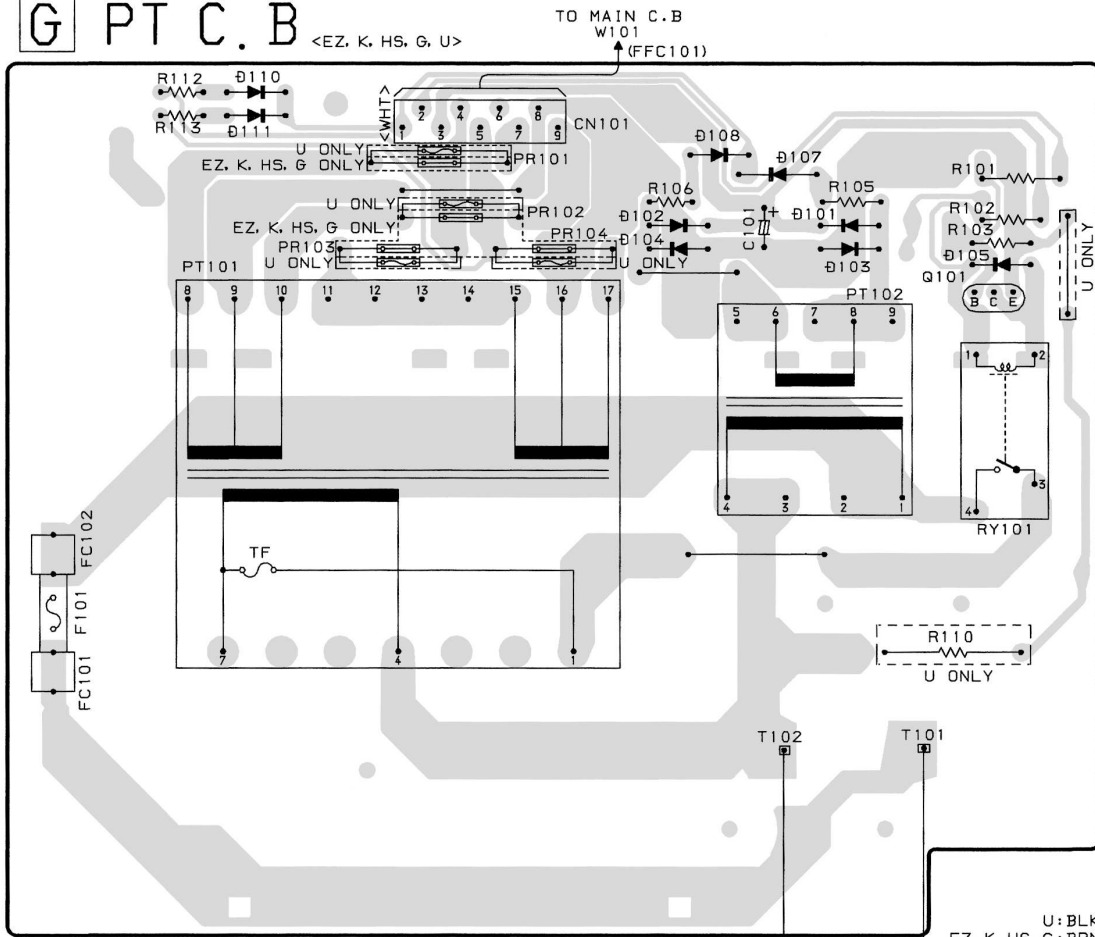
WIRING - 7 (PT) <EZ, K, HS, G, U>

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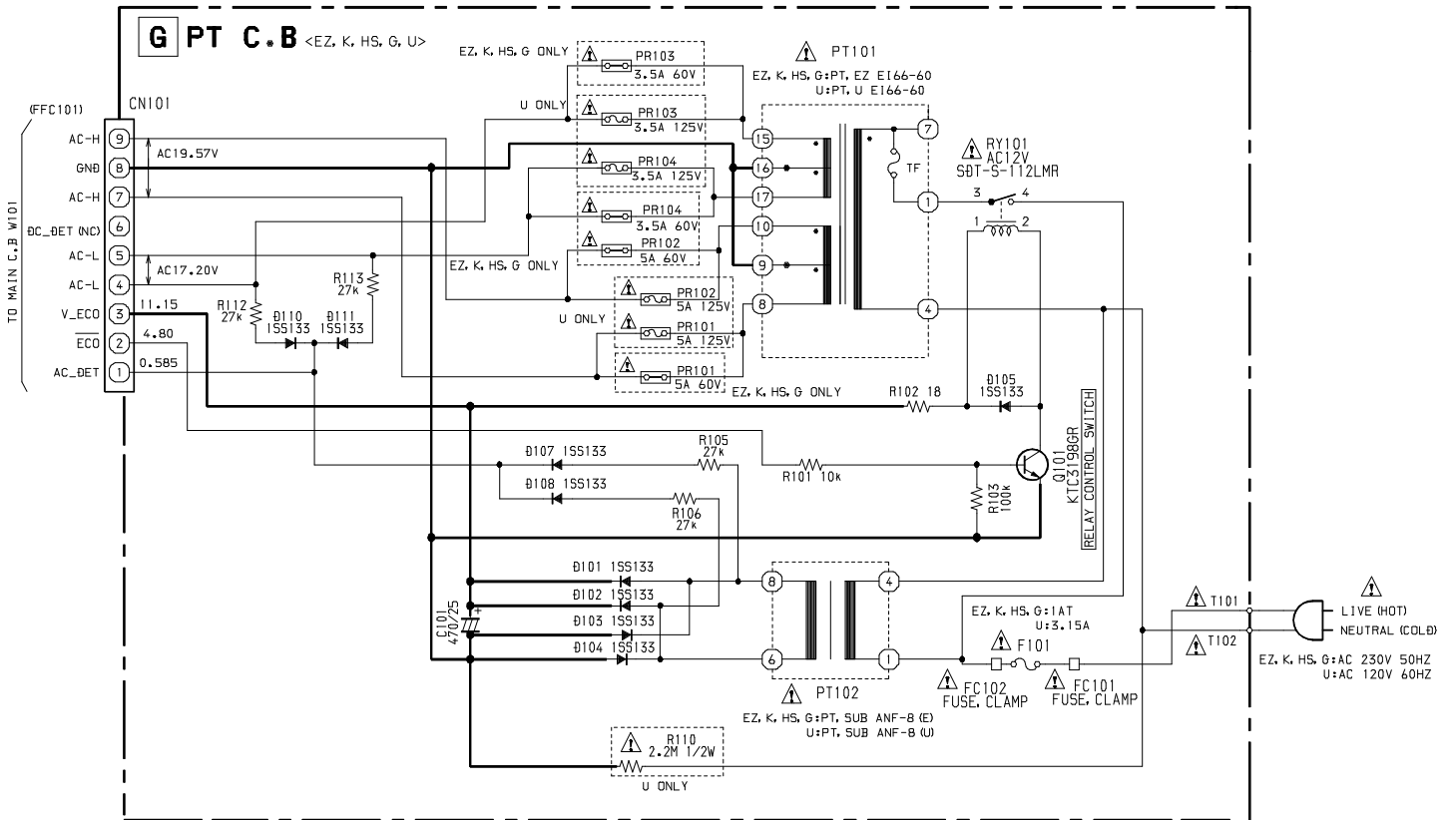
G PT C.B

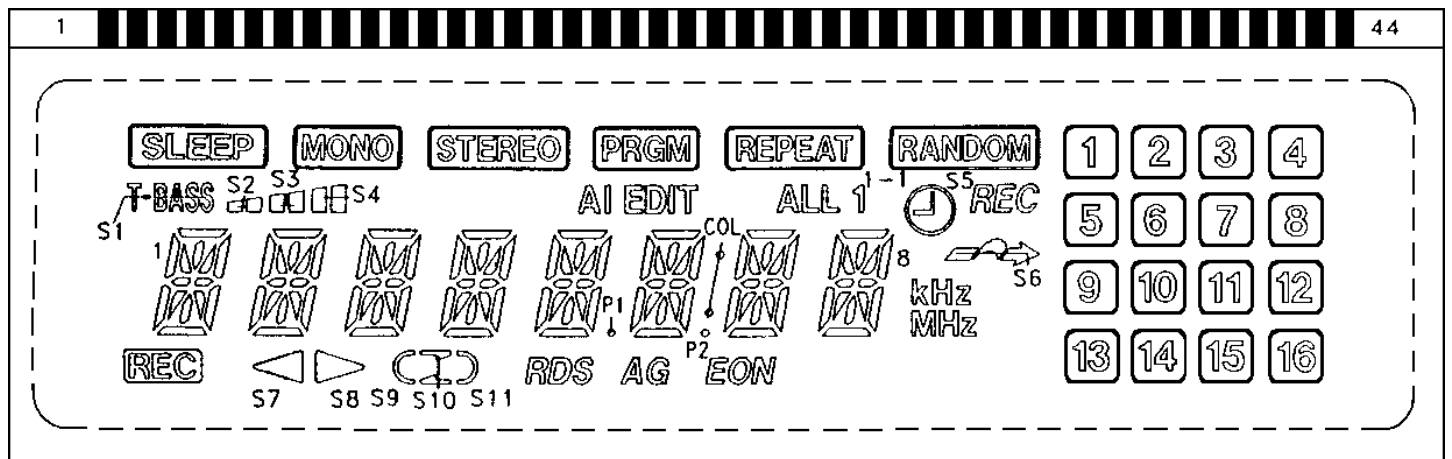
<EZ, K, HS, G, U>



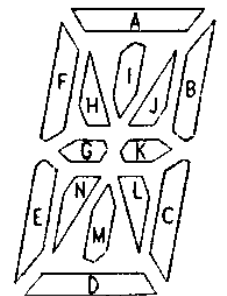
U: BLK
 EZ, K, HS, G: BRN
 EZ, K, HS, G: AC230V, 50HZ
 U: AC120V, 60HZ
 U: WHT
 EZ, K, HS, G: BLU

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



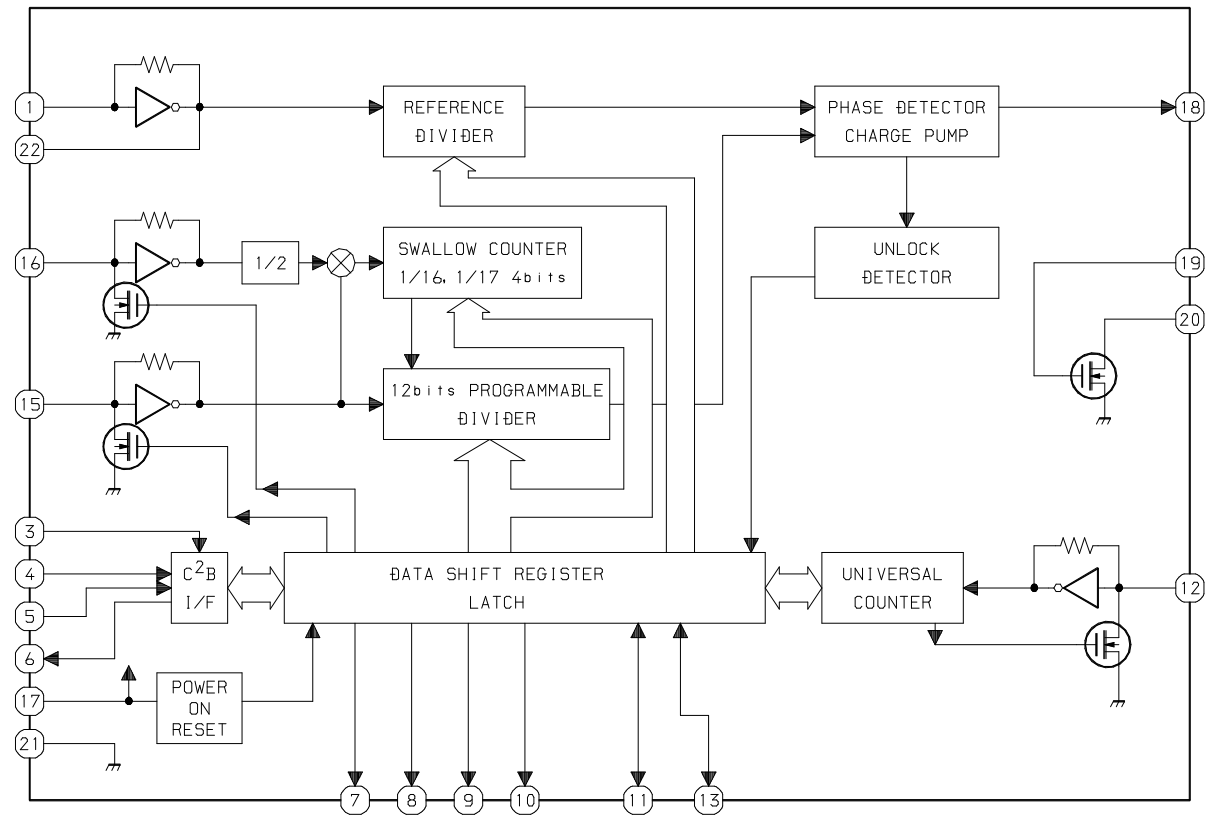


| PIN No. | COM1 | COM2 | COM3 | COM4 | PIN No. | COM1 | COM2 | COM3 | COM4 |
|---------|------|------|------|--------|---------|------|------|------|--------|
| 1 | 1D | 1E | 1F | SLEEP | 23 | 6M | 6K | 6J | 6A |
| 2 | 1N | 1G | 1H | 1I | 24 | 6L | 6C | 6B | / |
| 3 | 1M | 1K | 1J | 1A | 25 | 7D | 7E | 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 | / | / | / |

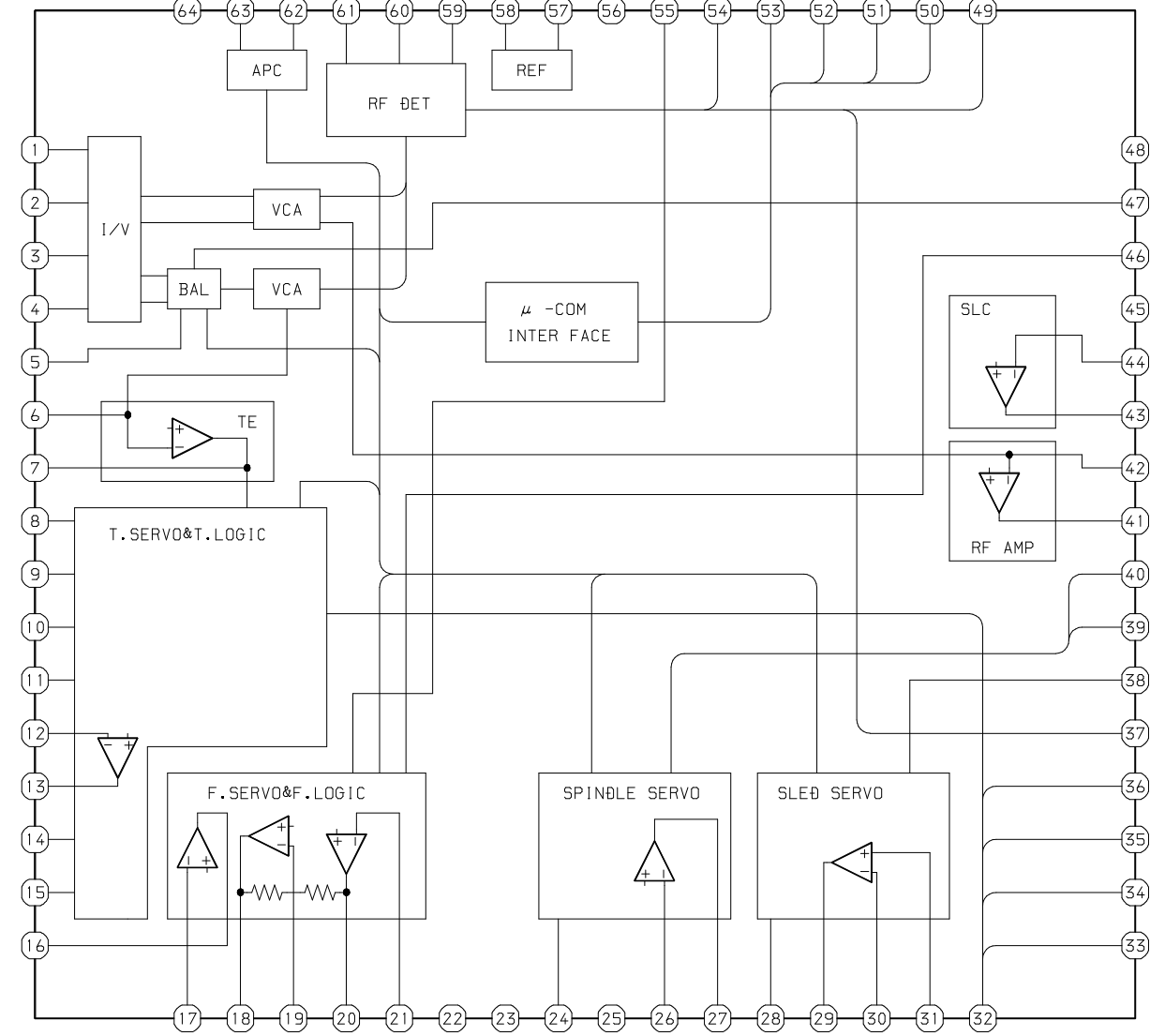


IC BLOCK DIAGRAM

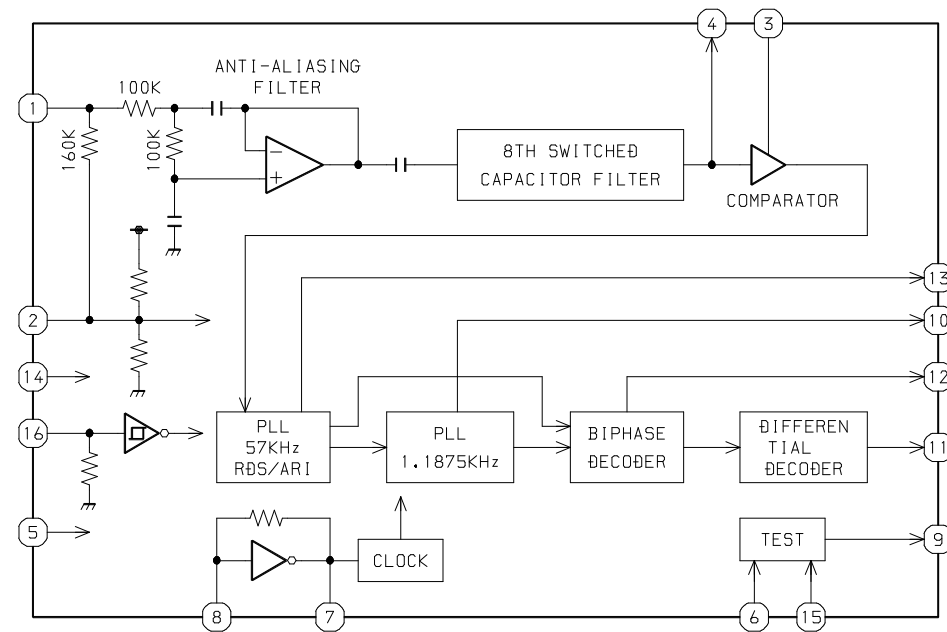
IC, LC72131D



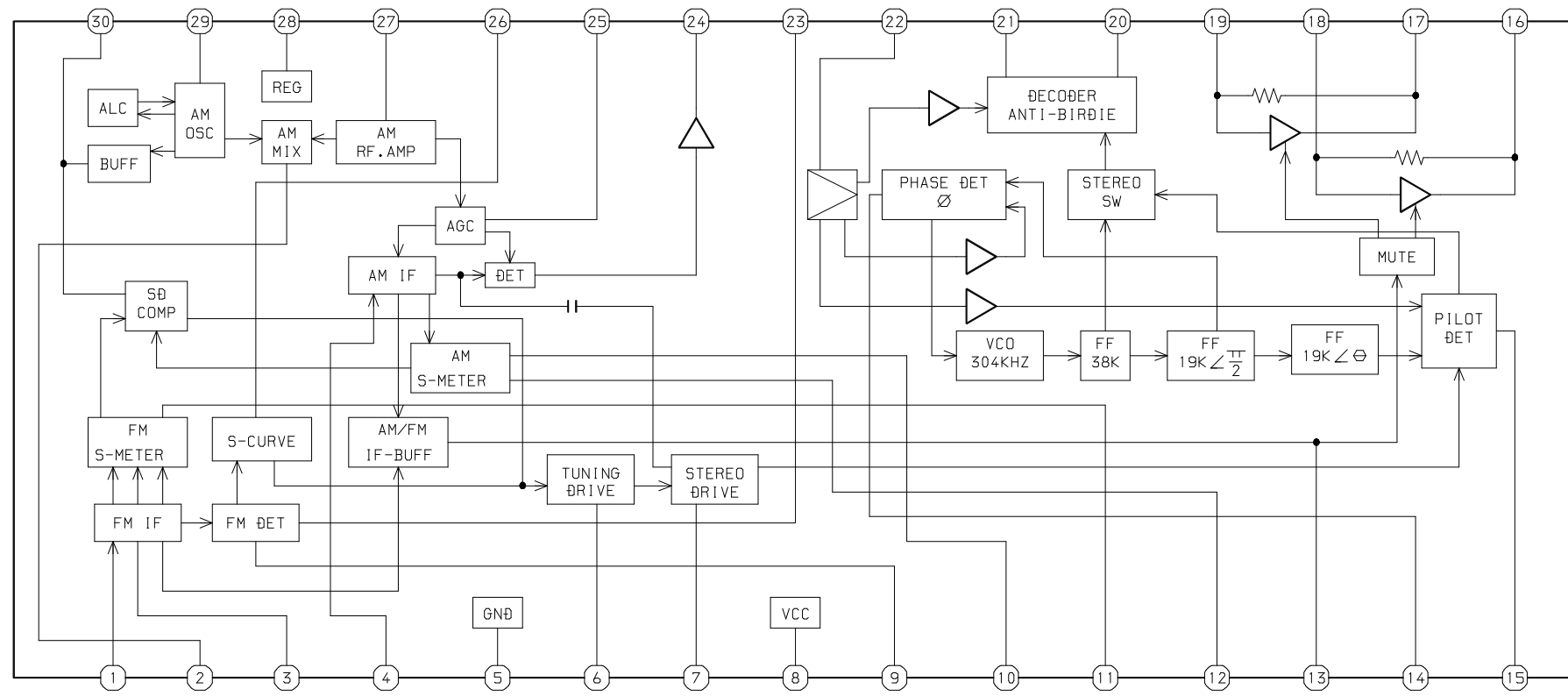
IC, LA9241ML



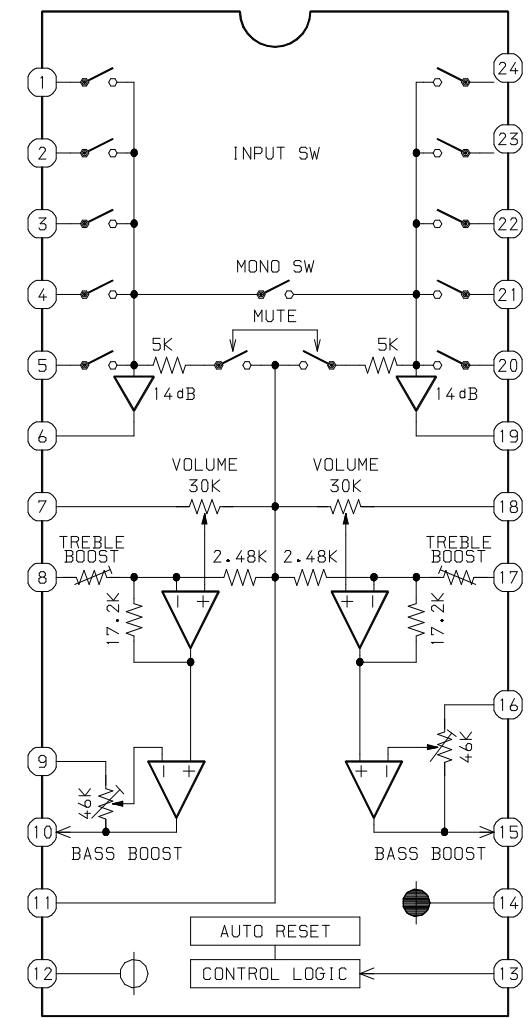
IC, BU1920FS



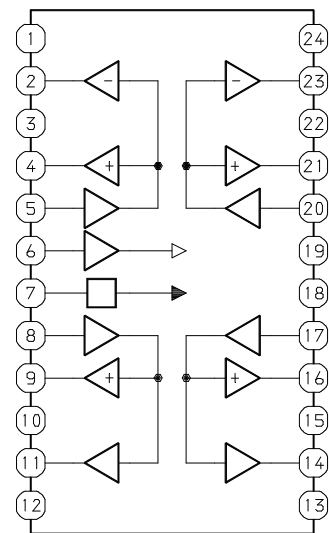
IC, LA1837NL



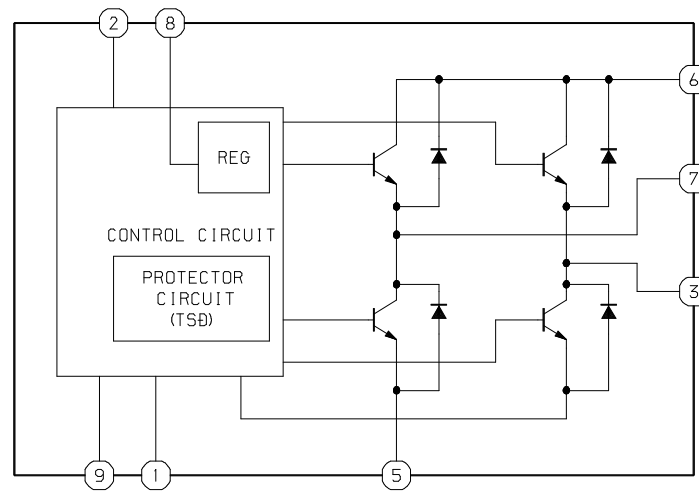
IC, M62495AFP



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 |
| 2 BAND | | 3 BAND | | | 3 BAND | | | | | | | | | | | | | | | | | | | | | | |
| AM | FM | LW | MW | FM | MW | SW | FM | | | | | | | | | | | | | | | | | | | | |
| H | L | H | H | L | H | L | L | | | | | | | | | | | | | | | | | | | | |
| 10 | $\overline{\text{MW}} / \text{SW}$ | O | Outputs "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>L</td> <td>L</td> <td>H</td> <td>L</td> <td>L</td> <td>L</td> <td>H</td> <td>L</td> </tr> </tbody> </table> | 2 BAND | | 3 BAND | | | 3 BAND | | | AM | FM | LW | MW | FM | MW | SW | FM | L | L | H | L | L | L | H | L |
| 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

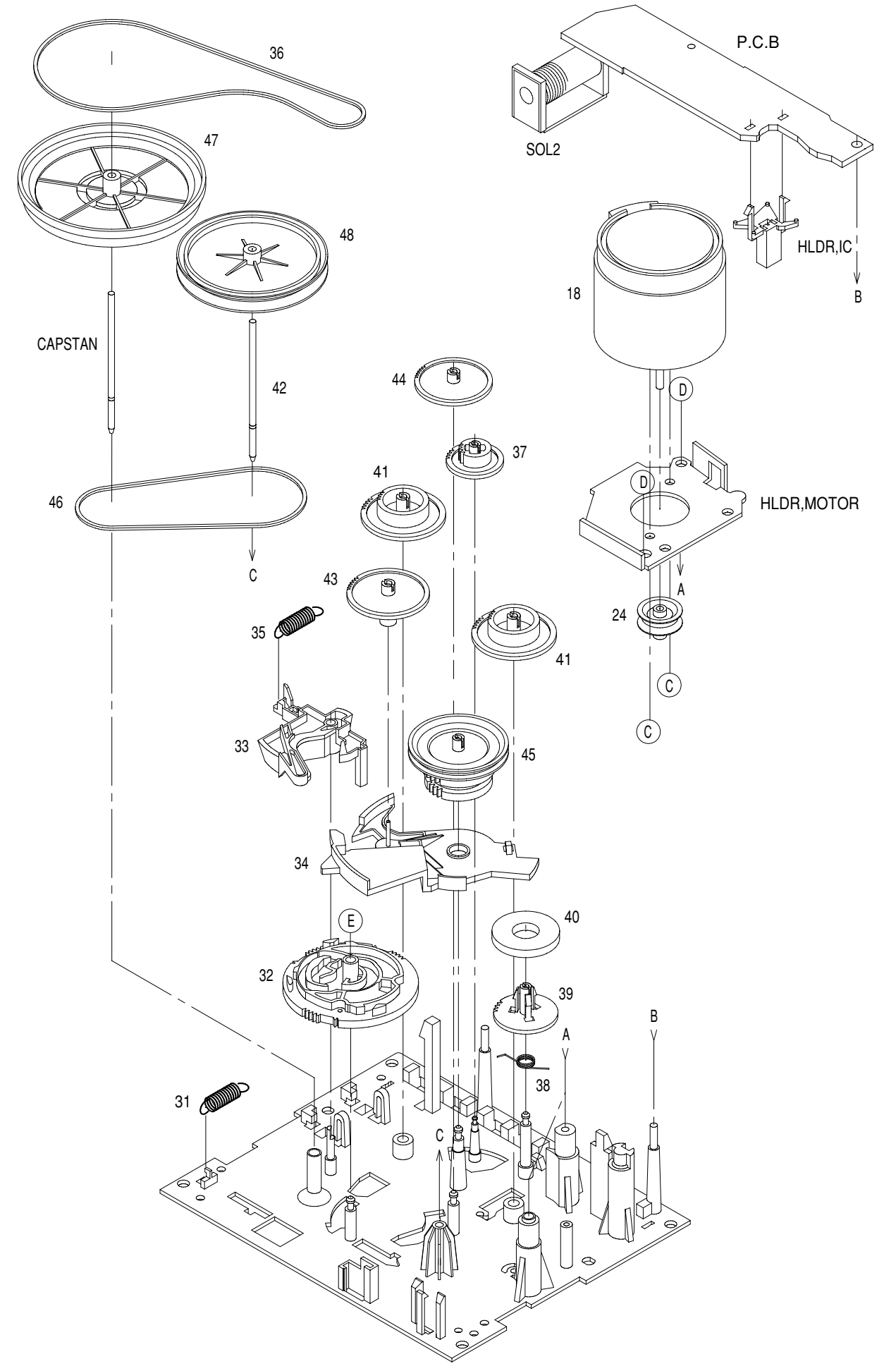
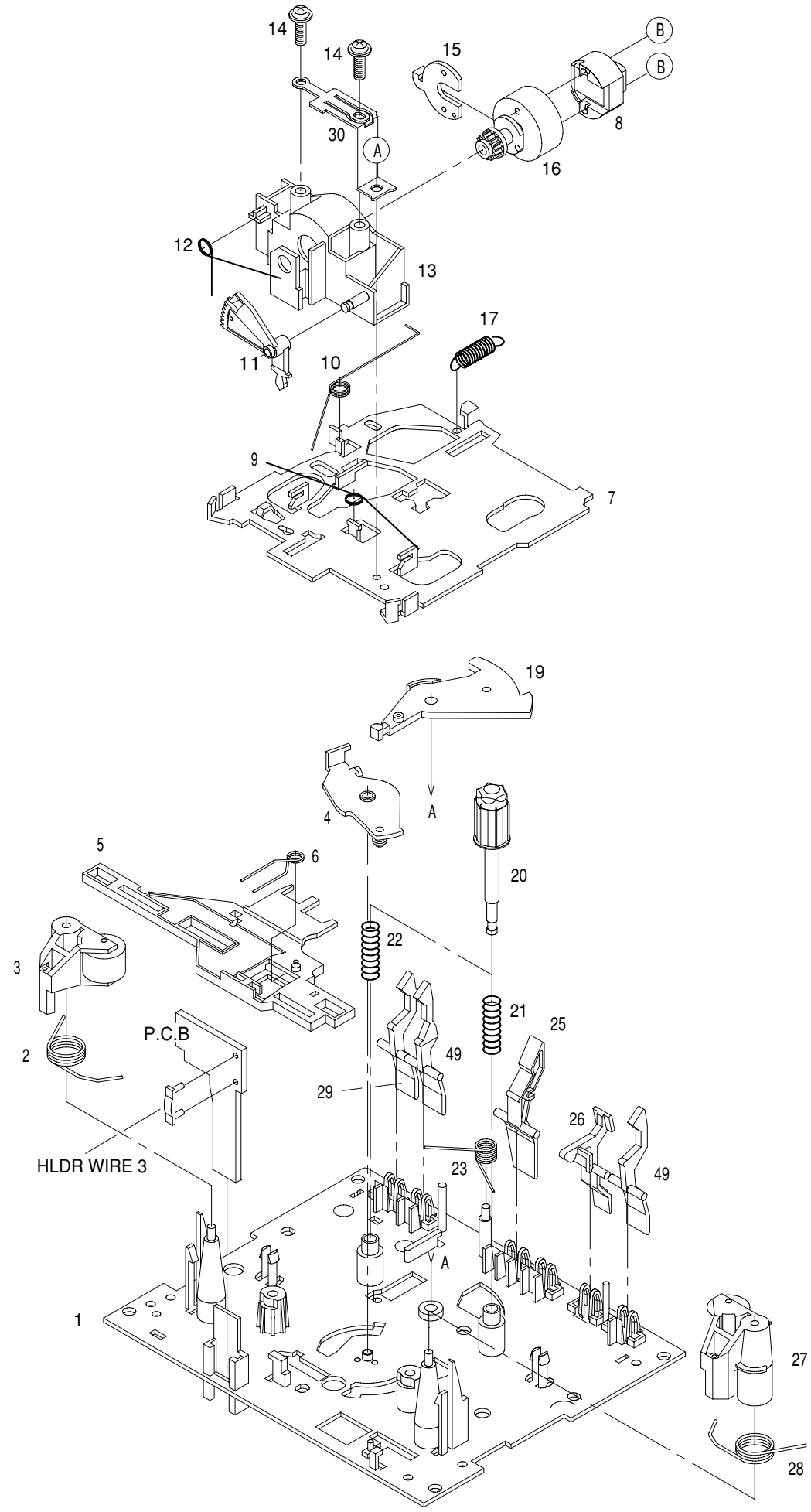
MECHANICAL PARTS LIST 1 / 1

| 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 |

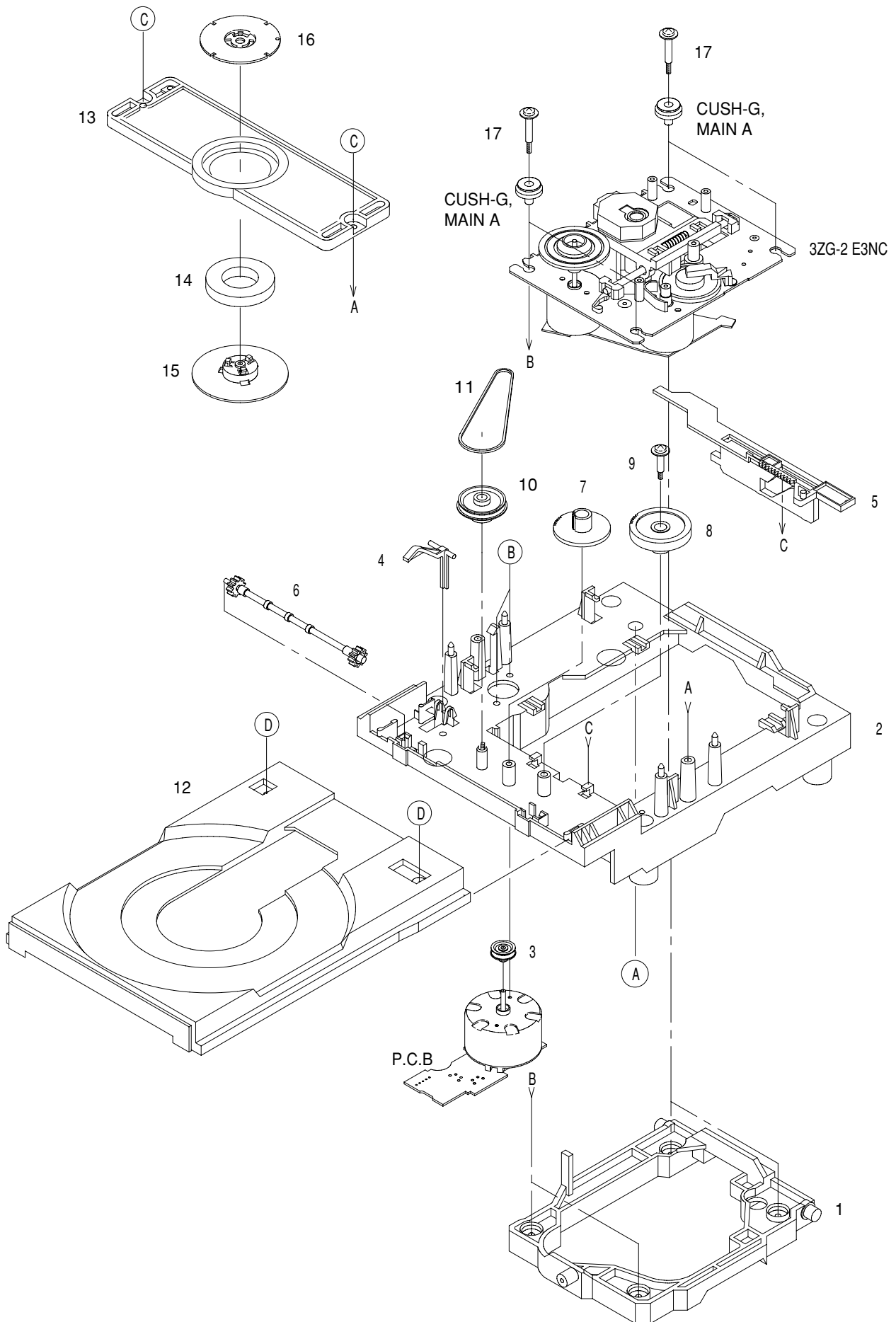
TAPE MECHANISM EXPLODED VIEW 1 / 1 (2ZM-1 YR9NC)



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 | | HLLDR, 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 | | | | |

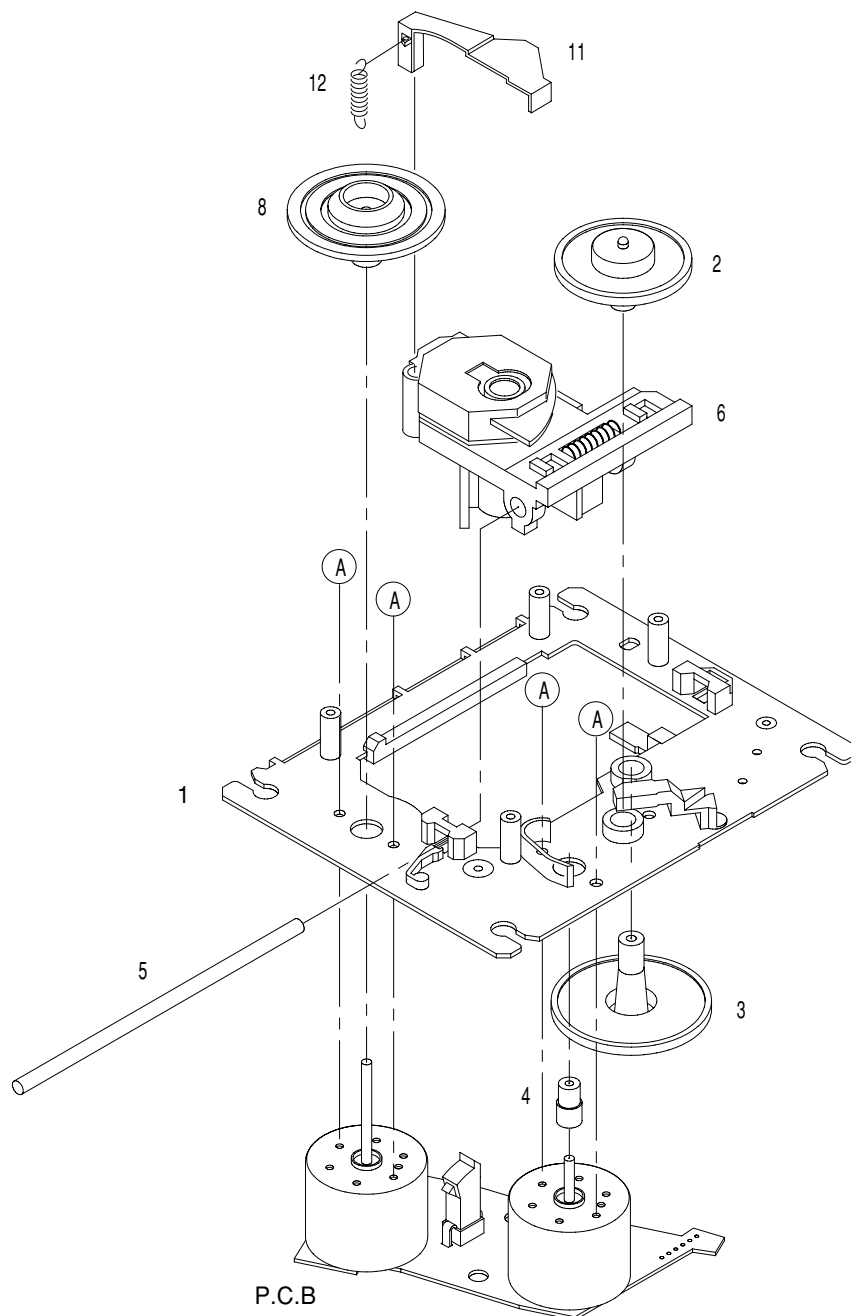
CD MECHANISM EXPLODED VIEW 1 / 2 (3ZG-3 E3NC)



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 |

アイワ株式会社 〒110-8710 東京都台東区池之端1-2-11 ☎03(3827)3111 (代表)
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