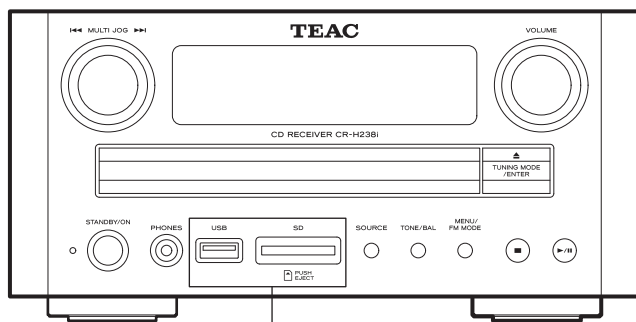




Only for CR-H238/CR-H258

# TEAC

## SERVICE MANUAL

# CR-H248/CR-H258i/ CR-H238i

## CD Receiver



Except CR-H248



Digital Audio Broadcasting

Except CR-H238i



### CONTENTS

|                                                             |    |
|-------------------------------------------------------------|----|
| 1. SPECIFICATIONS & SAFETY INFORMATION .....                | 2  |
| 2. EXPLODED VIEWS AND PARTS LISTS (CR-H238i/CR-H258i) ..... | 3  |
| 3. EXPLODED VIEWS AND PARTS LISTS (CR-H248) .....           | 6  |
| 4. PW BOARDS AND PARTS LISTS .....                          | 8  |
| 5. INCLUDED ACCESSORIES .....                               | 20 |

### NOTES

- PC boards shown are viewed from parts side.
- The parts with no reference number or no parts number in the exploded views are not supplied.
- As regards the resistors and capacitors, refer to the circuit diagrams supplied prior to this manual.
- ⚠ Parts marked with this sign are safety critical components. They must be replaced with designated components.
- Destination of product is expressed by [ ] mark and ensure exact replacement:  
[EUR] - Europe; [JPN] - Japan; [UK] - UK; [USA] - U.S.A.

# 1. SPECIFICATIONS & SAFETY INFORMATION

## SPECIFICATIONS

### AMPLIFIER Section

Input Sensitivity ..... 340 mV/47 kΩ  
Frequency Response 20 Hz to 60,000 Hz (+1/-3 dB)

### TUNER Section

#### FM Section

Tuning Range ..... 76.0 MHz to 90.0 MHz [JPN]  
87.50 MHz to 108.00 MHz [EUR], [UK], [USA]  
Signal-to-Noise Ratio ..... 56 dB (Mono)  
52 dB (Stereo)

#### AM Section (Except CR-H248)

Tuning Range  
522 kHz to 1,629 kHz [JPN], [EUR], [UK]  
530 kHz to 1,710 kHz [USA]  
Signal-to-Noise Ratio ..... 35 dB

### DAB Section (Except CR-H238i)

Tuning range ..... Band 3, 174 MHz - 240 MHz  
Input ..... 50 ohms, nominal  
Max signal ..... -3 dBm typ  
Sensitivity ..... -96 dBm typ  
Adjacent Channel Rejection ..... 35 dB typ

### CD Player Section

Frequency Response..... 20 Hz to 20,000 Hz (±2 dB)  
Signal-to-Noise Ratio ..... more than 90 dB  
Total Harmonic Distortion  
Less than 0.05 % (1 kHz, 0 dB) [JPN]  
Wow and Flutter.....Immeasurable [EUR], [UK], [USA]

### USB/SD Memory Card Section (Except CR-H248)

Frequency Response..... 20 Hz to 20,000 Hz (±2 dB)  
Signal-to-Noise Ratio ..... more than 85 dB

### General

Power Requirements ..... 100 V AC, 50-60 Hz [JPN]  
230 V AC, 50 Hz [EUR], [UK]  
120 V AC, 60 Hz [USA]

### Power Consumption

74 W (Standby 0.5 W) [JPN], [USA]  
74 W (Standby 0.8 W) [EUR], [UK]  
Dimension ..... 215 × 105 × 355 mm  
(8-1/2 × 4-3/16 × 14 inch)  
Weight ..... 4.2 kg (9.3 lb)

### Standard Accessories

Power Cord × 1 (Except CR-H248)  
Remote Control Unit  
(RC-1226) × 1 (for CR-H238i & CR-H258i)  
(RC-1243) × 1 (for CR-H248)  
Batteries (AAA) × 2  
AM Loop Antenna × 1 (for CR-H238i & CR-H258i)  
FM Lead-type Antenna × 1 (for CR-H238i & CR-H258i)  
DAB/FM Antenna × 1 (for CR-H248)  
DAB Antenna × 1 (for CR-H258i)  
iPod Dock (DS-20) × 1 [JPN] only  
Owner's Manual × 1  
Warranty Card × 1

## SAFETY INFORMATION

This product has been designed and manufactured according to FDA regulations "title 21, CFR, chapter 1, subchapter J, based on the Radiation Control for Health and Safety Act of 1968", and is classified as class 1 laser product. There is not hazardous invisible laser radiation during operation because invisible laser radiation emitted inside of this product is completely confined in the protective housings. The label required in this regulation is shown as follows.

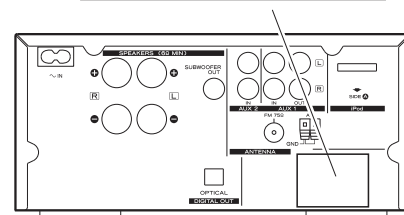
#### Optical pickup :

Type : SF-P101VF  
Manufacturer : Sanyo Electric Co., Ltd  
Laser output : Less than 1 mW on the objective lens  
Wavelength : 790 ±30 nm

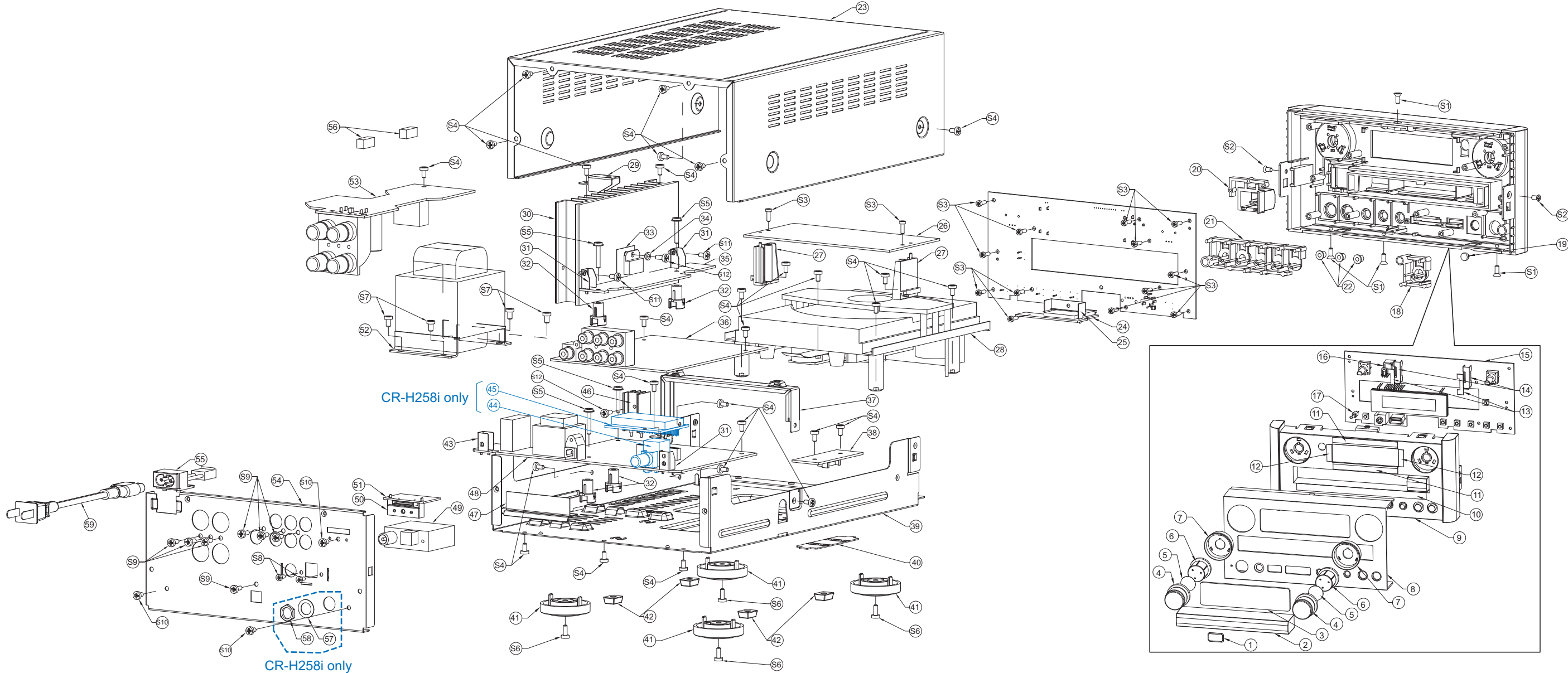
For U.S.A.

CERTIFICATION  
THIS PRODUCT COMPLIES WITH 21  
CFR 1040.10 AND 1040.11 EXCEPT  
FOR DEVIATIONS PURSUANT TO LASER  
NOTICE NO. 50, DATED JUNE 24, 2007

TEAC CORPORATION  
1-47 OCHIAI, TAMA-SHI, TOKYO, JAPAN  
MANUFACTURED CDT



## 2. EXPLODED VIEWS AND PARTS LISTS



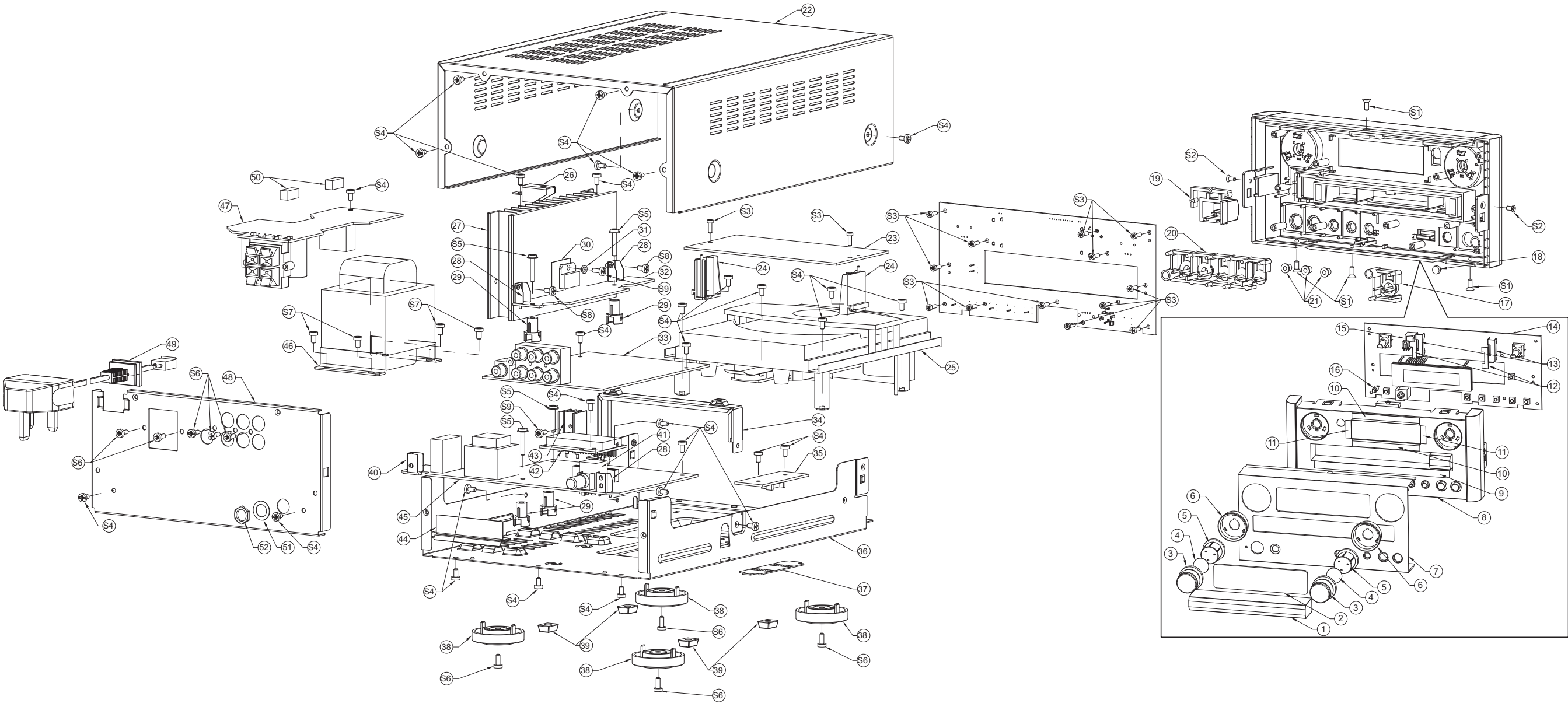
## EXPLODED VIEW (CR-H238i/CR-H258i)

| REF. NO. | PARTS NO.         | DESCRIPTION                                | REMARKS                                            |
|----------|-------------------|--------------------------------------------|----------------------------------------------------|
| 1        | 6403-090600200    | USB RUBBER COVER, SILVER                   |                                                    |
|          | 6403-090600100    | USB RUBBER COVER, BLACK                    |                                                    |
| 2        | 5201-090600100    | DOOR - CD, SILVER [EUR], [JPN], [UK]       |                                                    |
|          | 5201-090700100    | DOOR - CD, BLACK [EUR], [JPN], [UK]        |                                                    |
|          | 5201-090600400    | DOOR - CD, BLACK [USA]                     |                                                    |
| 3        | 5501-090600100    | LENS - VFD DISPLAY                         |                                                    |
| 4        | 6828-090600100    | ALUMINIUM VOL KNOB CAP, SILVER             |                                                    |
|          | 6828-090700100    | ALUMINIUM VOL KNOB CAP, BLACK              |                                                    |
| 5        | 7902-090700200    | DOUBLE SIDE ADHESIVE TAPE DIA.17 MM        |                                                    |
| 6        | 5307-090600100    | KNOB - VOLUME                              |                                                    |
| 7        | 5905-090600100    | RING - VOLUME KNOB                         |                                                    |
| 8        | 6830-090400200    | AL FRONT PANEL, BLACK CR-H258 [UK]         |                                                    |
|          | 6830-090600100    | AL FRONT PANEL, SILVER CR-H238 [EUR]       |                                                    |
|          | 6830-090600200    | AL FRONT PANEL, BLACK CR-H238 [EUR]        |                                                    |
|          | 6830-090600500    | AL FRONT PANEL, BLACK CR-H238 [JPN], [USA] |                                                    |
| 9        | 5001-090400100    | CABINET - FRONT, SILVER [EUR], [JPN], [UK] |                                                    |
|          | 5001-090400200    | CABINET - FRONT, BLACK [EUR], [JPN], [UK]  |                                                    |
|          | 5001-090600200    | CABINET - FRONT, BLACK [USA]               |                                                    |
| 10       | 7902-090700100    | DOUBLE SIDE ADHESIVE TAPE 150X8 MM         |                                                    |
| 11       | 7906-090600200    | DOUBLE SIDE ADHESIVE TAPE 75X8 MM          |                                                    |
| 12       | 7906-090600300    | DOUBLE SIDE ADHESIVE TAPE 20X6 MM          | United on POWER SUPPLY & DISPLAY PWBA, see page 14 |
| 13       | 7902-090600100    | DOUBLE SIDE ADHESIVE TAPE 24X7 MM          |                                                    |
| 14       | 6302-090600100    | HOLDER, VFD SPTE T=0.5 MM                  |                                                    |
| 15       |                   | DISPLAY PWB ASSY .....                     |                                                    |
| 16       | 5603-090600100    | HOLDER-REMOTE SENSOR                       |                                                    |
| 17       | 5601-090600100    | HOLDER - LED                               |                                                    |
| 18       | 5408-090600100    | BUTTON - STANDBY/ON, SILVER                |                                                    |
|          | 5408-090700100    | BUTTON - STANDBY/ON, BLACK                 |                                                    |
| 19       | 5502-090600100    | LENS - STANDBY LIGHT GUIDE                 |                                                    |
| 20       | 5304-090600100    | BUTTON - OPEN/CLOSE, SILVER                |                                                    |
|          | 5304-090700100    | BUTTON - OPEN/CLOSE, BLACK                 |                                                    |
| 21       | 5403-090600100    | BUTTON - FUNCTION, SILVER                  |                                                    |
|          | 5403-090700100    | BUTTON - FUNCTION, BLACK                   |                                                    |
| 22       | 5302-090600100    | CAP - TUNNING BUTTON                       |                                                    |
| 23       | 6822-090600100    | TOP CASE SECC T=0.8 MM, SILVER             |                                                    |
|          | 6822-090700100    | TOP CASE SECC T=0.8 MM, BLACK              |                                                    |
| 24       |                   | SD PWB ASSY .....                          | United on IPOD & SD PWBA, see page 18              |
| 25       | 6306-090600400    | SD SOCKET PCB BRACKET SPTE T=0.5 MM        |                                                    |
| 26       | 8925-090400100    | CD PWB ASSY                                |                                                    |
| 27       | 5607-090600100    | HOLDER - CD PCB                            |                                                    |
| 28       | 8949-023800100SP  | CD MECH, LOADER ASA2130 & DA11MMV          |                                                    |
|          | L8925-090600100SP | TRAVERSE UNIT, DA11MMV                     |                                                    |
|          | L8925-023800100SP | CD MOTOR PWB ASSY                          |                                                    |
|          | L3701-070600610   | CD MOTO PCB 160X171X1.6MM/16 94V0          |                                                    |
|          | 3312-010110000    | SWITCH LEAF LF-009 1P1T                    |                                                    |
|          | 3101-200611000    | HEADER 6PIN 2.0MM 90 DEGREE                |                                                    |
| 29       | 6306-090600200    | SPEAKER PCB BRACKET T=0.8 MM               |                                                    |
| 30       | 6600-090600100    | HEATSINK BIG                               |                                                    |
| 31       | 6303-090600100    | CONNECT PLATE SPTE T=0.5 MM                |                                                    |
| 32       | 5607-090600200    | HOLDER - PCB                               |                                                    |
| 33       | 8035-000001500    | SILICA GEL SHEET                           |                                                    |
| 34       | 5939-080700100    | PLASTIC WASHER D6.0XH2.7XD3.0 PA66_V0      | United on SPK JACK & POWER AMP PWBA, see page 17   |
| 35       |                   | POWER AMP PWB ASSY .....                   |                                                    |
| 36       | 8901-090400100    | MAIN PWB ASSY CR-H258 [UK]                 |                                                    |
|          | 8901-090600100    | MAIN PWB ASSY CR-H238 [EUR]                |                                                    |
|          | 8901-090600200    | MAIN PWB ASSY CR-H238 [JPN], [USA]         |                                                    |

## EXPLODED VIEW (CR-H238i/CR-H258i)

| REF. NO. | PARTS NO.        | DESCRIPTION                                 | REMARKS                                            |
|----------|------------------|---------------------------------------------|----------------------------------------------------|
| 37       | 6306-090600100   | MAIN PCB BRACKET T=0.8 MM                   | United on POWER SUPPLY & DISPLAY PWBA, see page 14 |
| 38       |                  | UPDATE PWB ASSY .....                       |                                                    |
| 39       | 6823-090600101   | BOTTOM CASE SECC T=0.8 MM                   |                                                    |
| 40       | 6210-090600200   | PC CUT SHEET T=0.8 MM                       |                                                    |
| 41       | 5912-090600100   | FOOT STAND WITH EVA                         |                                                    |
| 42       | 6404-090600100   | RUBBER, BOTTOM SCREWS                       | CR-H258 only<br>CR-H258 only                       |
| 43       | 6303-090600200   | CONNECT PLATE A SPTE T=0.5 MM               |                                                    |
| 44       | 6406-090700100   | EVA 15X15X11 MM                             |                                                    |
| 45       | 4910-090400100   | DAB MODULE, VENICE 5.1 FS-2025-1B           |                                                    |
| 46       | 6600-061000200   | HEATSINK A                                  |                                                    |
| 47       | 6210-090600100   | PC CUT SHEET T=0.5 MM                       | United on POWER SUPPLY & DISPLAY PWBA, see page 14 |
| 48       | ⚠                | POWER SUPPLY PWB ASSY .....                 |                                                    |
| 49       | 3801-000000360   | AM/FM TUNER MODULE [JPN], [USA]             |                                                    |
|          | 3801-000000370   | AM/FM TUNER MODULE [EUR], [UK]              |                                                    |
| 50       | 6306-090600300   | IPOD SOCKET PCB BRACKET SPTE T=0.5 MM       |                                                    |
| 51       |                  | IPOD PWB ASSY .....                         | United on IPOD & SD PWBA, see page 18              |
| 52       | ⚠ 2302-661023800 | MAIN TRANSFORMER [JPN]                      |                                                    |
|          | ⚠ 2302-663023800 | MAIN TRANSFORMER [USA]                      |                                                    |
|          | ⚠ 2302-665025800 | MAIN TRANSFORMER [EUR], [UK]                |                                                    |
| 53       |                  | SPK JACK PWB ASSY .....                     | United on SPK JACK & POWER AMP PWBA, see page 17   |
| 54       | 6215-090400101   | BACK PLATE SECC T=0.8 MM CR-H258 [UK]       |                                                    |
|          | 6215-090600101   | BACK PLATE SECC T=0.8 MM CR-H238 [EUR]      |                                                    |
|          | 6215-090600201   | BACK PLATE SECC T=0.8 MM CR-H238 [JPN]      |                                                    |
|          | 6215-090600301   | BACK PLATE SECC T=0.8 MM CR-H238 [USA]      |                                                    |
| 55       | ⚠                | AC SOCKET PWB ASSY [EUR], [JPN], [UK] ..... | United on POWER SUPPLY & DISPLAY PWBA, see page 14 |
|          | ⚠                | AC SOCKET PWB ASSY [USA] .....              | United on POWER SUPPLY & DISPLAY PWBA, see page 14 |
| 56       | 6404-090600400   | EVA FOOT 45 DEGREE                          | CR-H258 only<br>CR-H258 only                       |
| 57       | 6827-090400100   | WASHER METAL DIA14.0X9.5X0.5 MM             |                                                    |
| 58       | 6026-090400100   | NUT M10X2X12 MM                             |                                                    |
| 59       | ⚠ 2901-112508050 | AC CORD UL [USA]                            |                                                    |
|          | ⚠ 2901-112508060 | AC CORD UL [USA]                            |                                                    |
|          | ⚠ 2902-125007152 | AC CORD VDE [EUR]                           |                                                    |
|          | ⚠ 2902-125007040 | AC CORD VDE [EUR]                           |                                                    |
|          | ⚠ 2902-125007300 | AC CORD VDE [EUR]                           |                                                    |
|          | ⚠ 2905-125007050 | AC CORD BS [UK]                             |                                                    |
|          | ⚠ 2905-125007060 | AC CORD BS [UK]                             |                                                    |
|          | ⚠ 2913-112507010 | AC CORD [JPN]                               |                                                    |
|          | ⚠ 2913-112507000 | AC CORD [JPN]                               |                                                    |
| S1       | 6014-230080200   | SCREW, ST F M3x8 BT N, SILVER               |                                                    |
|          | 6014-230080130   | SCREW, ST F B 3X8 (HARDEN), BLACK           |                                                    |
| S2       | 6034-230060100   | SCREW, H F B3X6, BLACK                      |                                                    |
| S3       | 6011-226080200   | SCREW, ST P B2.6X8 N                        |                                                    |
| S4       | 6013-230060210   | SCREW, ST B B3X6 N (HARDEN), SILVER         |                                                    |
|          | 6013-230060130   | SCREW, ST B B3X6 (HARDEN), BLACK            |                                                    |
| S5       | 6012-230180200   | SCREW, ST B3X18 DIA, 8.0 MM WB N (HARDEN)   |                                                    |
| S6       | 6013-230080300   | SCREW, ST B B3.0X8 N, SILVER                |                                                    |
|          | 6013-230080100   | SCREW, ST B B 3X8 B, BLACK                  |                                                    |
| S7       | 6013-235060200   | SCREW, ST B B3.5X6 N (HARDEN)               |                                                    |
| S8       | 6033-226060100   | SCREW, H S B B2.6X6 (HARDEN), BLACK         |                                                    |
| S9       | 6013-230080100   | SCREW, ST B B 3X8 B                         |                                                    |
| S10      | 6013-230060130   | SCREW, ST B B3X6 (HARDEN), BLACK            |                                                    |
| S11      | 6013-230060210   | SCREW, ST B B3X6 N (HARDEN)                 |                                                    |
| S12      | 6013-230080300   | SCREW, ST B B3.0X8 N                        |                                                    |

3. EXPLODED VIEWS AND PARTS LISTS  
(CR-H248)



## EXPLODED VIEW (CR-H248)

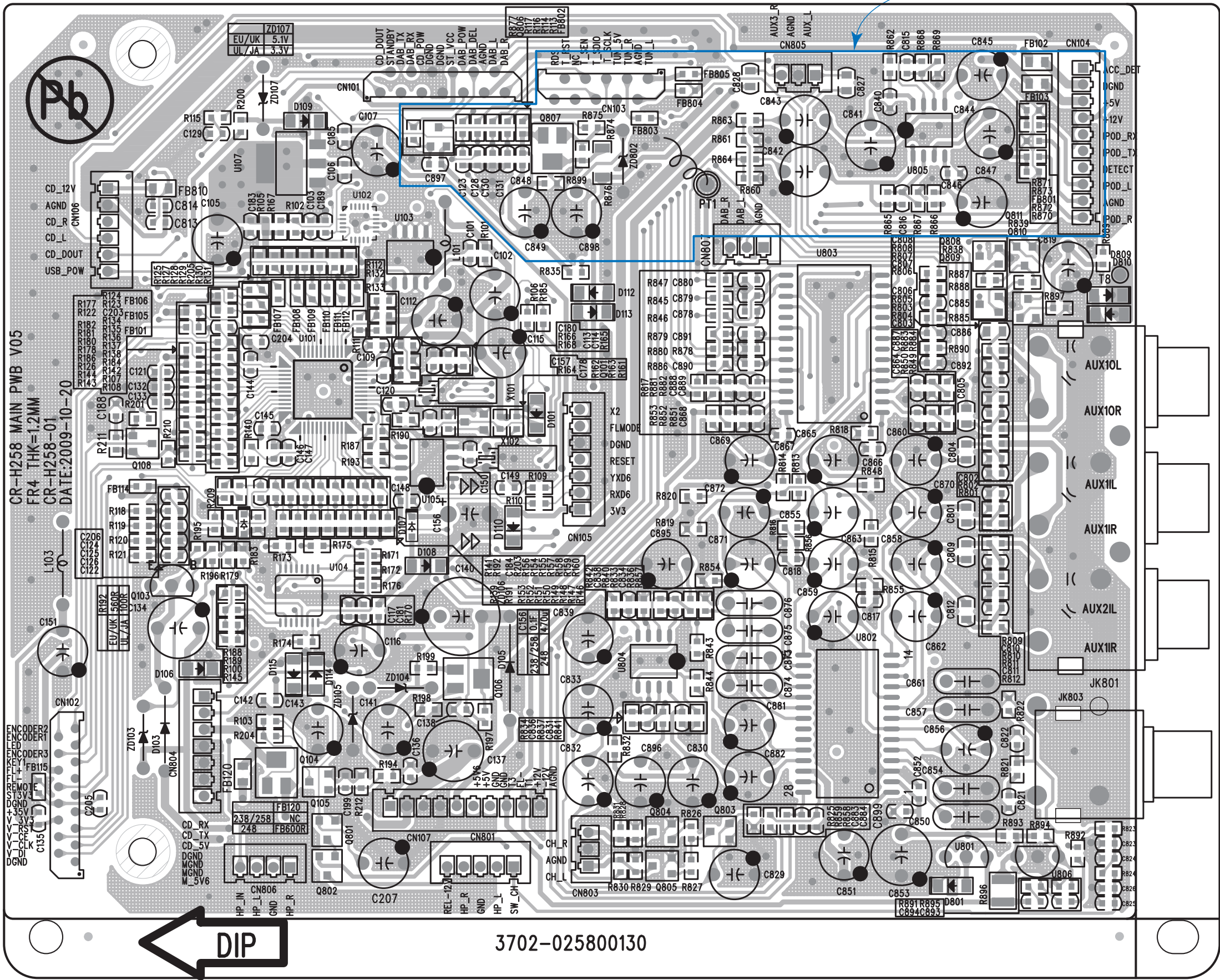
| REF. NO. | PARTS NO.        | DESCRIPTION                             | REMARKS                                            |
|----------|------------------|-----------------------------------------|----------------------------------------------------|
| 1        | 5201-090700100   | DOOR - CD BLACK [UK]                    |                                                    |
| 2        | 5501-090600100   | LENS - VFD DISPLAY                      |                                                    |
| 3        | 6828-090700100   | ALUMINIUM VOL KNOB CAP, BLACK           |                                                    |
| 4        | 7902-090700200   | DOUBLE SIDE ADHESIVE TAPE DIA.17 MM     |                                                    |
| 5        | 5307-090600100   | KNOB - VOLUME                           |                                                    |
| 6        | 5905-090600100   | RING - VOLUME KNOB                      |                                                    |
| 7        | 6830-090700100   | ALUMINIUM FRONT PANEL, BLACK CR-H248    |                                                    |
| 8        | 5001-090700100   | CABINET - FRONT, BLACK                  |                                                    |
| 9        | 7902-090700100   | DOUBLE SIDE ADHESIVE TAPE 150X8 MM      |                                                    |
| 10       | 7906-090600200   | DOUBLE SIDE ADHESIVE TAPE 75X8 MM       |                                                    |
| 11       | 7906-090600300   | DOUBLE SIDE ADHESIVE TAPE 20X6 MM       |                                                    |
| 12       | 7902-090600100   | DOUBLE SIDE ADHESIVE TAPE 24X7 MM       |                                                    |
| 13       | 6302-090600100   | HOLDER, VFD SPTE T=0.5 MM               |                                                    |
| 14       |                  | DISPLAY PWB ASSY .....                  | United on POWER SUPPLY & DISPLAY PWBA, see page 14 |
| 15       | 5603-090600100   | HOLDER-REMOTE SENSOR                    |                                                    |
| 16       | 5601-090600100   | HOLDER - LED                            |                                                    |
| 17       | 5408-090700100   | BUTTON - STANDBY/ON BLACK               |                                                    |
| 18       | 5502-090600100   | LENS - STANDBY LIGHT GUIDE              |                                                    |
| 19       | 5304-090700200   | BUTTON -OPEN/CLOSE BLACK                |                                                    |
| 20       | 5403-090700100   | BUTTON - FUNCTION BLACK                 |                                                    |
| 21       | 5302-090600100   | CAP - TUNNING BUTTON                    |                                                    |
| 22       | 6822-090700100   | TOP CASE SECC T=0.8 MM BLACK            |                                                    |
| 23       | 8925-090700100   | CD PWB ASSY                             |                                                    |
| 24       | 5607-090600100   | HOLDER - CD PCB                         |                                                    |
| 25       | 8949-023800100SP | CD MECH, LOADER ASA2130 & DA11MMV       | Refer to Ref. No. 28 on page 4 for more details    |
| 26       | 6306-090600200   | SPEAKER PCB BRACKET T=0.8 MM            |                                                    |
| 27       | 6600-090600100   | HEATSINK BIG                            |                                                    |
| 28       | 6303-090600100   | CONNECT PLATE SPTE T=0.5 MM             |                                                    |
| 29       | 5607-090600200   | HOLDER - PCB                            |                                                    |
| 30       | 8035-000001500   | SILICA GEL SHEET                        |                                                    |
| 31       | 5939-080700100   | PLASTIC WASHER D6.0XH2.7XD3.0 PA66_V0   |                                                    |
| 32       |                  | POWER AMP PWB ASSY .....                | United on SPK JACK & POWER AMP PWBA, see page 17   |
| 33       | 8901-090700100   | MAIN PWB ASSY CR-H248 [UK]              |                                                    |
| 34       | 6306-090600100   | MAIN PCB BRACKET T=0.8 MM               |                                                    |
| 35       |                  | UPDATE PWB ASSY .....                   | United on POWER SUPPLY & DISPLAY PWBA, see page 14 |
| 36       | 6823-090600101   | BOTTOM CASE SECC T=0.8 MM               |                                                    |
| 37       | 6210-090600200   | PC CUT SHEET T=0.8 MM                   |                                                    |
| 38       | 5912-090600100   | FOOT STAND WITH EVA                     |                                                    |
| 39       | 6404-090600100   | RUBBER, BOTTOM SCREWS                   |                                                    |
| 40       | 6303-090600200   | CONNECT PLATE A SPTE T=0.5 MM           |                                                    |
| 41       | 6406-090700100   | EVA 15X15X11 MM                         |                                                    |
| 42       | 4910-071600200   | DAB MODULE, VENICE 5.0 FS2025-B         |                                                    |
| 43       | 6600-061000200   | HEATSINK A                              |                                                    |
| 44       | 6210-090600100   | PC CUT SHEET T=0.5 MM                   |                                                    |
| 45       | ⚠                | POWER SUPPLY PWB ASSY .....             | United on POWER SUPPLY & DISPLAY PWBA, see page 14 |
| 46       | ⚠ 2302-665025800 | MAIN TRANSFORMER [UK]                   |                                                    |
| 47       |                  | SPK JACK PWB ASSY .....                 | United on SPK JACK & POWER AMP PWBA, see page 17   |
| 48       | 6215-090700101   | BACK PLATE SECC T=0.8 MM CR-248 [UK]    |                                                    |
| 49       | ⚠ 2905-225007080 | AC CORD BS 3 PIN 3A FUSED [UK]          |                                                    |
| 50       | 6404-090600400   | EVA FOOT 45DEGREE                       |                                                    |
| 51       | 6827-090400100   | WASHER METAL DIA14.0X9.5X0.5 MM         |                                                    |
| 52       | 6026-090400100   | NUT M10X2X12 MM                         |                                                    |
| S1       | 6014-230080130   | SCREW,ST F B 3X8 (HARDEN), BLACK        |                                                    |
| S2       | 6034-230060100   | SCREW, H F B3X6, BLACK                  |                                                    |
| S3       | 6011-226080200   | SCREW ST P B2.6X8 N                     |                                                    |
| S4       | 6013-230060130   | SCREW, ST B B3X6 (HARDEN), BLACK        |                                                    |
| S5       | 6012-230180200   | SCREW,ST B3X18 DIA,8.0 MM WB N (HARDEN) |                                                    |
| S6       | 6013-230080100   | SCREW, ST B B 3X8 B                     |                                                    |
| S7       | 6013-235060200   | SCREW, ST B B3.5X6 N (HARDEN)           |                                                    |
| S8       | 6013-230060210   | SCREW, ST B B3X6 N (HARDEN)             |                                                    |
| S9       | 6013-230080300   | SCREW ST B B3.0X8 N                     |                                                    |

## 4. PW BOARDS AND PARTS LISTS

## MAIN PWB

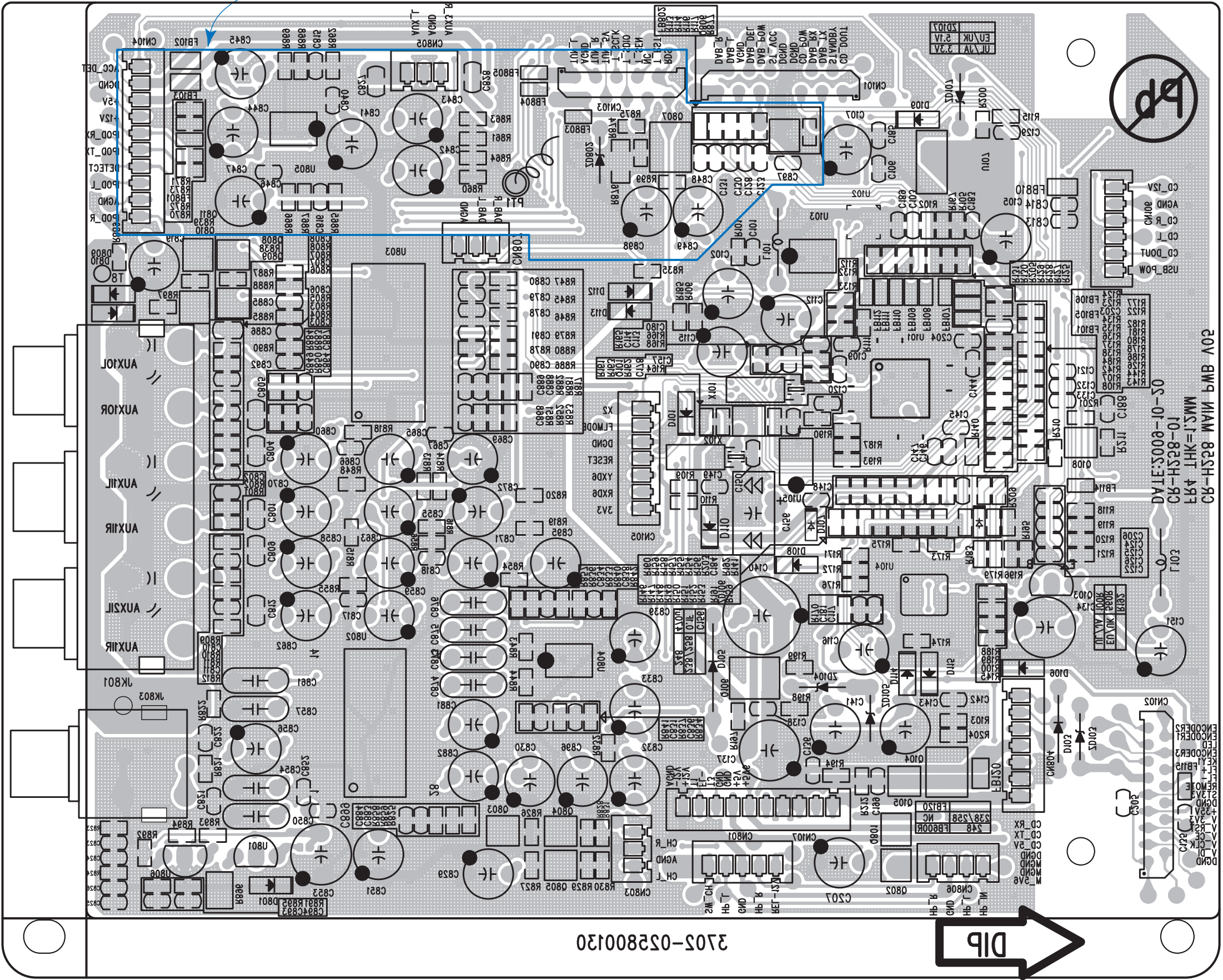
## Side A

248: N.M. = NO MOUNT



MAIN PWB  
Side B

248: N.M. = NO MOUNT



## MAIN PWB ASSY

| REF. NO.         | PARTS NO.      | DESCRIPTION                                            | REMARKS                |
|------------------|----------------|--------------------------------------------------------|------------------------|
|                  | 8901-090400100 | MAIN PWB ASSY [UK] CR-H258                             |                        |
|                  | 8901-090600100 | MAIN PWB ASSY [EUR] CR-H238                            |                        |
|                  | 8901-090600200 | MAIN PWB ASSY [JPN], [USA] CR-H238                     |                        |
|                  | 8901-090700100 | MAIN PWB ASSY [UK] CR-H248                             |                        |
|                  | 3702-025800130 | MAIN PWB FR4 DOUBLE SIDE 146.2x117.2x1.2 MM CR-H258-01 |                        |
| C105,116,151,830 | 1132-107053060 | CAP ELECT, 100UF 16V +/-20% 5X11 TAPING                | CR-H248: C849 N.M.     |
| C839,849,865,869 |                |                                                        |                        |
| C107,112,134,137 | 1132-227053060 | CAP ELECT, 220UF 16V +/-20% 5X11 TAPING                |                        |
| C853,895,896     |                |                                                        |                        |
| C140             | 1132-107093350 | CAP ELECT,100UF 63V +/-20% 10x15 TAPING                |                        |
| C156             | 1116-104220000 | CAP , GOLD 0.1F/5.5V DCS5R5104 V TYPE                  |                        |
| CN101            | 3106-121321000 | CONNECTOR, FFC P=13PIN P=1.25 MM STRAIGHT              |                        |
| CN102            | 3106-101721010 | FFC CONNECTOR 17PIN P=1.0 MM WHITE                     |                        |
| CN103            | 3106-121021000 | FFC CONNECTOR 10PIN P=1.25 MM 180DEGREE                | CR-H248: N.M.          |
| CN104,107        | 3101-201021010 | HEADER 10PIN 2.0 MM STRAIGHT                           | CR-H248: CN104 N.M.    |
| CN105,804        | 3101-200721000 | HEADER 7PIN 2.0 MM 180 DEGREE WHITE                    |                        |
| CN106            | 3101-200621010 | HEADER 6PIN 2.0 MM STRAIGHT                            |                        |
| CN801            | 3101-200521010 | HEADER 5PIN 2.0 MM STRAIGHT                            |                        |
| CN803            | 3101-200321020 | HEADER 3PIN 2.0 MM STRAIGHT                            |                        |
| CN806            | 3101-200421010 | HEADER 4PIN 2.0 MM STRAIGHT                            |                        |
| D101,108,109,110 | 1321-041480050 | CH-DIODE LL4148 MINIMELF (SEMTECH)                     |                        |
| D112,113,114,115 |                |                                                        |                        |
| D809,810         |                |                                                        |                        |
| D103,105         | 1311-140070020 | DIODE RECT 1N4007 1A/1000V DO-41(MIC)                  |                        |
| D106,107         | 1321-013550000 | CH-DIODE SWITCHING 1SS355 UMD2                         |                        |
| JK801            | 3204-060183000 | RCA JACK RCA-613DA 6PIN DIA.=8.3 MM RED/WHITE          |                        |
| JK803            | 3204-010184110 | RCA JACK RCA-108D2 1PIN DIA.=8.4 MM BLACK              |                        |
| Q101,105,806,807 | 1422-080500050 | TRANSISTOR SS8050LT1 hFE=120-220 SOT23                 | CR-H248: Q806,807 N.M. |
| Q810             |                |                                                        |                        |
| Q103             | 1411-023160000 | TRANSISTOR KSC2316YT NPN HFE=60 TO-92L                 |                        |
| Q104             | 1424-023010010 | MOSFET P-CHANNEL APM2301 SOT-23                        |                        |
| Q106             | 1422-008460000 | CH-TRANSISTOR BC846B NPN SOT23                         |                        |
| Q108             | 1421-085500010 | CH-TRANSISTOR PNP SS8550LT1 SOT-23                     |                        |
| Q801,803,811     | 1421-001140000 | CH-TRANSISTOR DTA114YKAT146 SMT3                       |                        |
| Q802             | 1422-001140000 | CH-TRANSISTOR, DTC114YKAT146 NPN SMT3                  |                        |
| Q804,805,808,809 | 1422-013040000 | CH-TRANSISTOR, KTD1304 SOT-23                          |                        |
| U101             | 1506-780515000 | IC UPD78F0515GA(T)-8EU-A LQFP 48-PIN NEC               |                        |
| U102             | 1509-000200030 | IC AUTHENTICATION CHIP VER.2.0B APPLE (TEAC)           | CR-H248: N.M.          |
| U103             | 1511-002402080 | IC 2K-BITS SERIAL EEPROM FM24C02ASOU                   |                        |
| U104             | 1507-744052000 | IC, 74LV4052PWTSSOP16                                  |                        |
| U105             | 1518-000302000 | IC PJ1302ZN(-40 TO +85°C) TIMEKEEPING SO8 150mils      |                        |
| U107             | 1512-001117130 | IC, AZ1117H-3.3TRE1 REGULATOR SOT-223                  |                        |
| U802             | 1502-007303000 | IC, VOLUME TDA7303 SO28 (ST)                           |                        |
| U803             | 1518-009163000 | IC TC9163CFG AUDIO PROCESSOR SOP28-P-450-1.27          |                        |
| U804             | 1502-004558030 | IC, AZ4558 OPERATIONALL AMP.CD                         |                        |
| U806             | 1512-000431020 | IC AZ431AZ-ATRE1 ADJUSTABLE SHUNT REGULATORS           |                        |
| X101             | 1001-000327130 | CRYSTAL 32.768KHZ +10/-10PPM DT-38 PENGFEI             |                        |
| X102             | 1001-032768100 | Crystal 32.768KHZ +/-5PPM Round 3x8 CL=6PF             |                        |
| ZD103            | 1313-079390010 | ZENER DIODE BZX79-C3V9 TAPING                          |                        |
| ZD104,105        | 1313-001800000 | ZENER DIODE 18V 1/2W DO-35 TAPING                      |                        |
| ZD106            | 1323-384330000 | CH-ZENER DIODE BZX384-C3V3                             |                        |
| ZD107            | 1313-000510000 | ZENER DIODE 5V1 1/2W TAPING.                           |                        |
|                  | 1313-055330000 | ZENER DIODE BZX55-C3.3V1/2W +/-5% DO-35                | CR-H238 [JPN], [UAS]   |
| ZD802            | 1313-055560010 | ZENER DIODE BZX55C5V6 DO-35 1/2W TAPING                | CR-H248: N.M.          |

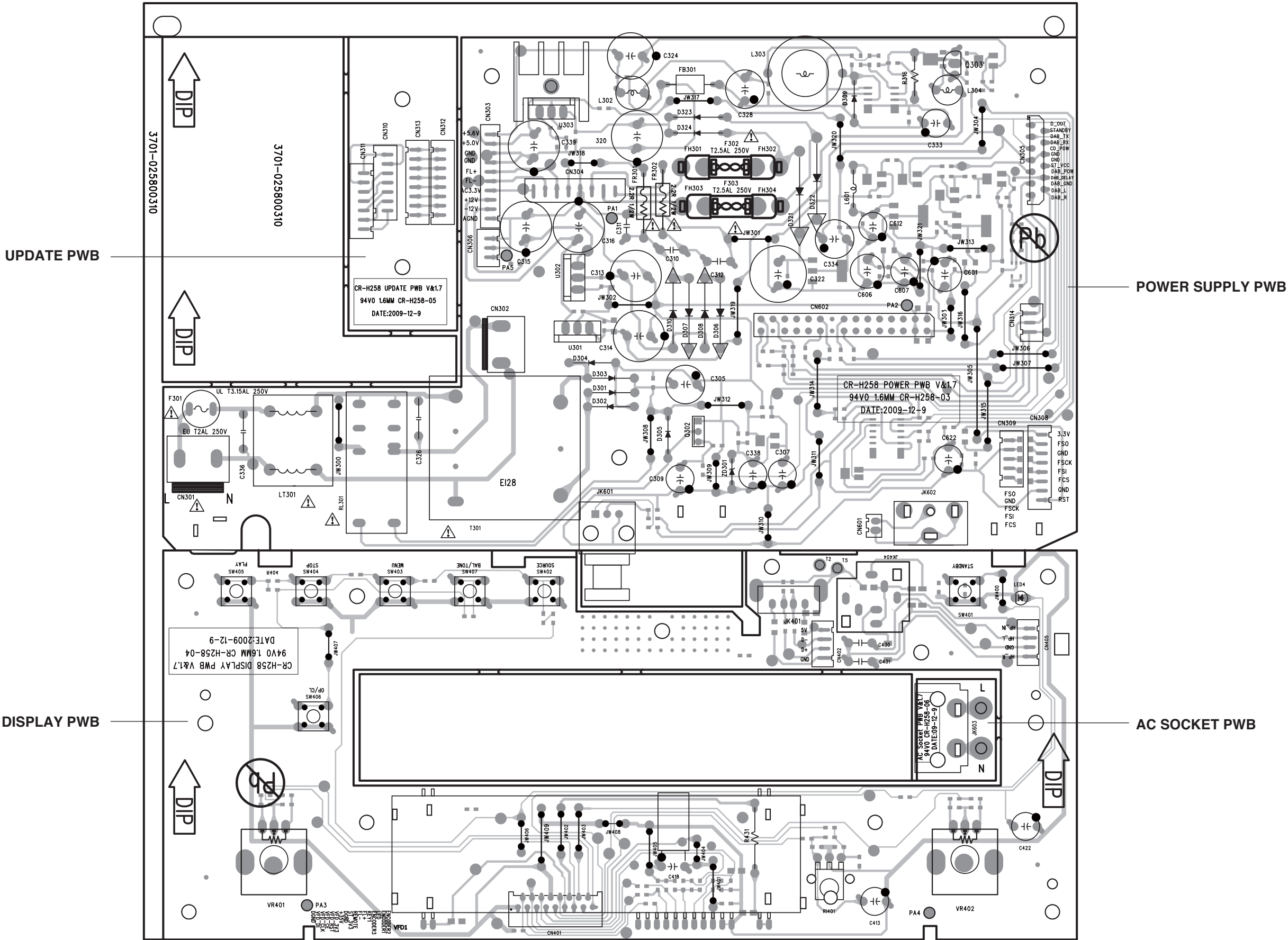


## CD PWB ASSY

| REF. NO.                                                         | PARTS NO.      | DESCRIPTION                                        | REMARKS             |
|------------------------------------------------------------------|----------------|----------------------------------------------------|---------------------|
|                                                                  | 8925-090400100 | CD PWB ASSY CR-H238/258                            |                     |
|                                                                  | 8925-090700100 | CD PWB ASSY [UK] CR-H248                           |                     |
|                                                                  | 3702-025800230 | CD PWB FR4 DOUBLE SIDE 141x150x1.2 MM/2 CR-H258-02 |                     |
| C503                                                             | 1132-477043100 | CAP ELECT, 470UF 10V +/-20%6.3X11 TAPING           |                     |
| C506                                                             | 1112-108043290 | CAP ELECT, 1000UF10V+/-20%8X14                     |                     |
| CC05,14,C504,533                                                 | 1132-227053060 | CAP ELECT, 220UF 16V +/-20% 5X11 TAPING            |                     |
| CC13,34,35,36,38<br>C509,516,546,551<br>C560,563,575,576<br>C581 | 1132-107053060 | CAP ELECT, 100UF 16V +/-20% 5X11 TAPING            | CR-H248: C546 N.M.  |
| CC17,18,19,21,22<br>CC23                                         | 3601-180000000 | CH-MULT. VAR. SDV1608H180C050 0603                 | CR-H248: ALL N.M.   |
| CN501                                                            | 3101-200521010 | HEADER 5PIN 2.0 MM STRAIGHT                        |                     |
| CN502                                                            | 3101-200421010 | HEADER 4PIN 2.0 MM STRAIGHT                        | CR-H248: N.M.       |
| CN503                                                            | 3101-200621010 | HEADER 6PIN 2.0 MM STRAIGHT                        |                     |
| CN504                                                            | 3505-060052000 | HOUSING 6P UL1007 AWG#24, HEADER - BOARD IN        | TO CN106            |
| CN505                                                            | 3505-070082020 | HOUSING 7P UL1007 AWG#26 HEADER-ONE BOARD IN       | TO CN804            |
| CN506                                                            | 3106-101621020 | FFC CONNECTOR 180DEG 16PIN P=1.0 MM WHITE          |                     |
| CN507                                                            | 3101-200921000 | HEADER 9PIN P=2.0 MM STRAIGHT WHITE                | CR-H248: N.M.       |
| D501                                                             | 1321-140010010 | CH-DIODE 1N4001(M1) DO-214AC                       |                     |
| D503,D506~509,510                                                | 1321-041480040 | CH-DIODE LS4148 QUADRO MELF SOD80                  | CR-H248: D503 N.M.  |
| Q501,Q503                                                        | 1421-085500010 | CH-TRANSISTOR PNP SS8550LT1 SOT-23                 | CR-H248: Q503 N.M.  |
| Q502                                                             | 1422-080500050 | TRANSISTOR SS8050LT1 hFE=120-220                   | CR-H248: N.M.       |
| Q504                                                             | 1424-023010010 | MOSFET P-CHANNEL APM2301 SOT-23                    | CR-H248: N.M.       |
| Q505                                                             | 1422-008460000 | CH-TRANSISTOR BC846B NPN SOT23                     |                     |
| R592                                                             | 1231-220022000 | RES, 22R 1/4W +/-5% TAPING                         |                     |
| RN501~505                                                        | 1225-330062020 | CRYSTAL 27MHz 20PPM 30PF HC-49/S                   | CR-H248: RN505 N.M. |
| TP1                                                              | 8016-000000100 | FM ANT CONTACT PIN                                 |                     |
| U501                                                             | 1513-005888020 | IC D5888S 5-CHANNEL MOTOR DRIVER SILICORE          |                     |
| U502                                                             | 1511-002540000 | IC EN25T40-75GCP 4M-BIT SERIAL FLASH MEMORY        |                     |
| U503                                                             | 1509-008104020 | IC SPHE8104TW LQFP128-PIN SUNPLUS                  |                     |
| U504                                                             | 1511-981616030 | IC, 16M_SDRAM TSOP(II) 50 W9816G6IH-6              |                     |
| U505                                                             | 1512-001117110 | IC, AZ1117-1.8 REGULATOR IC SOT223                 |                     |
| U506                                                             | 1512-001117130 | IC, AZ1117H-3.3TRE1 REGULATOR SOT-223              |                     |
| U507                                                             | 1512-000431020 | IC AZ431AZ-ATRE1 ADJUSTABLE SHUNT REGULATOR        |                     |
| U508                                                             | 1502-004558030 | IC, AZ4558 OPERATIONALL AMP.CD                     |                     |
| X501                                                             | 1001-270000250 | CRYSTAL 27MHz 20PPM 30PF HC-49/S                   |                     |

## POWER SUPPLY & DISPLAY PWB

## Side A





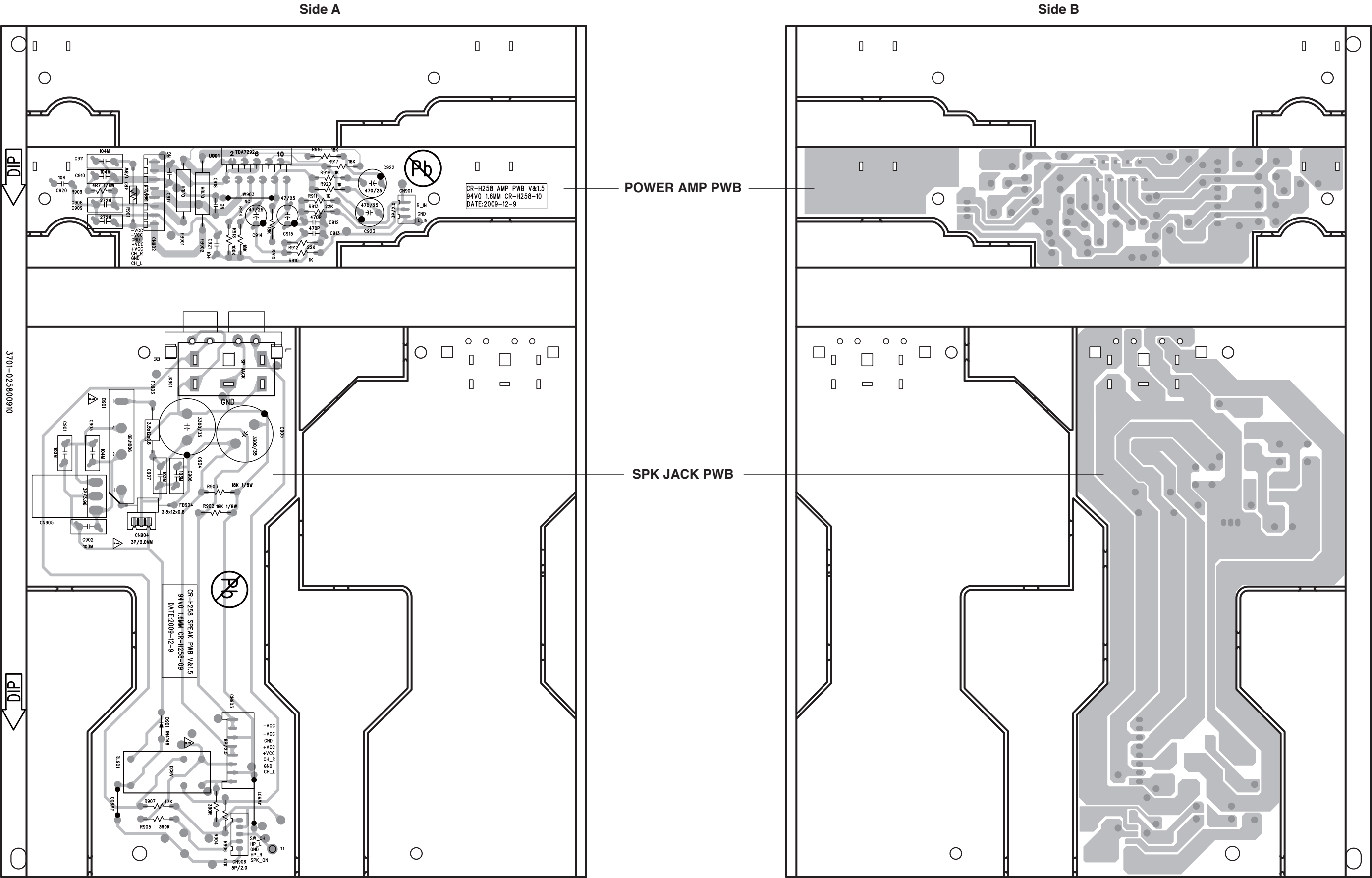
## POWER SUPPLY &amp; DISPLAY PWB ASSY

| REF. NO.                      | PARTS NO.        | DESCRIPTION                                               | REMARKS                      |
|-------------------------------|------------------|-----------------------------------------------------------|------------------------------|
|                               | 8905-090400100   | POWER SUPPLY & DISPLAY PWB ASSY [UK] CR-H258              |                              |
|                               | 8905-090600100   | POWER SUPPLY & DISPLAY PWB ASSY [EUR] CR-H238             |                              |
|                               | 8905-090600200   | POWER SUPPLY & DISPLAY PWB ASSY [USA] CR-H238             |                              |
|                               | 8905-090600300   | POWER SUPPLY & DISPLAY PWB ASSY [JPN] CR-H238             |                              |
|                               | 8905-090700100   | POWER SUPPLY & DISPLAY PWB ASSY [UK] CR-H248              |                              |
|                               | 3701-025800310   | POWER SUPPLY PWB SINGLE SIDE 200.65x200x1.6 MM CR-H258-03 |                              |
| C305,328,334                  | 1132-477053220   | CAP ELECT,470UF 16V +/-20% 8X12 TAPING                    | CR-H248: C328 N.M.           |
| C313,314                      | 1112-108063141   | CAP ELECT 1000UF25V+/-20%10X16 105°C                      |                              |
| C315,316,324,339              | 1132-477053012   | CAP ELECT,470uF 16V ±20% LESR 105°C                       | CR-H248: C324 N.M.           |
| C320                          | 1112-228063182   | CAP ELECT, 2200UF25V+/-20% 105°C                          |                              |
| C322                          | 1112-108053160   | CAP ELECT, 1000UF16V+/-20%10X20                           | CR-H238: N.M.                |
| C326,336                      | 1111-472142000   | CAP CER 4700PF 250V +/-10% Y2-250VAC-Y5V STE              |                              |
| C607,612,622                  | 1132-107053060   | CAP ELECT, 100UF 16V +/-20% 5X11 TAPING                   | CR-H238: C607,612 N.M.       |
| CN301                         | 3101-790220000   | HEADER 2PIN PH=7.92 MM A3960WV-02P STRAIGHT               |                              |
| CN302                         | 3101-790221000   | HEADER 2PIN PH=7.92 MM STRAIGHT                           |                              |
| CN303                         | 3505-100102000   | HOUSING 10P HEADER - BOARD IN L=100 MM                    | TO CN801                     |
| CN304                         | 3101-250821200   | HEADER 8PIN Pitch= 2.5 MM STRAIGHT                        |                              |
| CN305                         | 3106-121321000   | CONNECTOR, FFC P=13PIN P=1.25 MM STRAIGHT                 |                              |
| CN306                         | 3505-030122000   | HOUSING 3P HEADER - BOARD IN L=120 MM                     | TO CN904                     |
| CN308,313                     | 3101-200821010   | HEADER 8PIN P=2.0 MM STRAIGHT                             | CR-H238: N.M.                |
| CN309                         | 3101-200521010   | HEADER 5PIN 2.0 MM STRAIGHT                               | CR-H238: N.M.                |
| CN312                         | 3101-200811000   | HEADER 8PIN P=2.0 MM 90DEGREE                             | CR-H238: N.M.                |
| CN601                         | 3006-020035200   | SHIELD WIRE 2P RF COAX 5+25+5 L=35 MM                     | CR-H238: N.M.                |
| CN602                         | 3101-253022000   | HEADER 30PIN P=2.54 MM STRAIGHT BLACK                     | TO DAB MODULE, CR-H238: N.M. |
| D301~304,D306~308<br>D310~324 | 1311-140070020   | DIODE RECT 1N4007 1A/1000V DO-41                          | CR-H238: D321,322 N.M.       |
| D305                          | 1311-141480011   | DIODE 1N4148                                              |                              |
| D309                          | 1312-158190000   | DIODE 1N5819 DO-41                                        | CR-H248: N.M.                |
| F301                          | ⚠ 2001-315250400 | FUSE ROUND T3.15 A 250V 5RT-032HA/B [JPN], [USA]          |                              |
|                               | ⚠ 2003-200250400 | FUSE RAD LT2 A 250 V IEC60127-3/1V [EUR], [UK]            |                              |
| F302,303                      | 2001-250250130   | FUSE 2.5A 250V 5X20 MM 50T025H (TIME-LAG)                 |                              |
| FB301                         | 2105-000000030   | FILTER BEAD RH3.5X6X0.8 TAPING                            | CR-H248: N.M.                |
| FH301,302,303,304             | 6304-041500100   | FUSE HOLDER CQ-203P 5.4X7.5 MM                            |                              |
| FR301,FR302                   | 1233-022012000   | FUSE RES, 2.2R 1/2W +/-5% TAPING                          |                              |
| JK601                         | 1802-000000050   | FIBER.OPTIC TRANSMITTING MODULE, HKTX179A                 | CR-H248: N.M.                |
| JK602                         | 3213-000000000   | DAB JACK IF-9                                             | CR-H238: N.M.                |
| L302                          | 1614-330009000   | INDUCTOR 33uH+/-10% DCR: 0.094 OHM 8X12 MM                | CR-H248: N.M.                |
| L303                          | 1608-221020020   | TOROIDAL COIL 220 UH+/-10% DCR: 0.2 OHM 17X9 MM           | CR-H248: N.M.                |
| L304                          | 1614-101070000   | INDUCTOR 100UH +/-10% DCR :0.7 OHM 5.5x7.5 MM             | CR-H248: N.M.                |
| L601                          | 1604-470580000   | RADIAL AXIAL TYPE INDUCTOR 47 UH DCR: 5.8 OHM +/-10%      | CR-H238: N.M.                |
| LT301                         | ⚠ 2104-000000110 | LINE FILTER UT20-3.8 mH 3.8 mH 380 mOHM 1 A               |                              |
| Q302                          | 1412-214500000   | TRANSISTOR, 2SD1450 NPN                                   |                              |
| Q303                          | 1411-053500010   | TRANSISTOR, PBSS5350S                                     | CR-H248: N.M.                |
| Q304                          | 1422-080500050   | TRANSISTOR SS8050LT1 hFE=120-220                          | CR-H248: N.M.                |
| Q601,605                      | 1421-085500010   | CH-TRANSISTOR PNP SS8550LT1 SOT-23                        | CR-H238: N.M.                |
| Q602,604                      | 1422-080500050   | TRANSISTOR SS8050LT1 hFE=120-220                          | CR-H238: N.M.                |
| Q603                          | 1422-001140010   | CH-TRANSISTOR, DTC114TUA NPN                              | CR-H258 only                 |
| R316                          | 1216-056021001   | METAL FILM RES, 0.56R 1/4W +/-1%                          | CR-H248: N.M.                |
| RL301                         | ⚠ 2501-012160020 | POWER RELAY 2P 12 VDC 16 A [EUR], [UK]                    |                              |
|                               | ⚠ 2501-006100010 | POWER RELAY JTV-5 DC6 V AC10A [JPN], [USA]                |                              |
| T301                          | ⚠ 2302-283025800 | SUB TRANSFORMER EI-28 120 V (UL) [JPN], [USA]             |                              |
|                               | ⚠ 2302-285025800 | SUB TRANSFORMER EI-28 230 V (VDE) [EUR], [UK]             |                              |

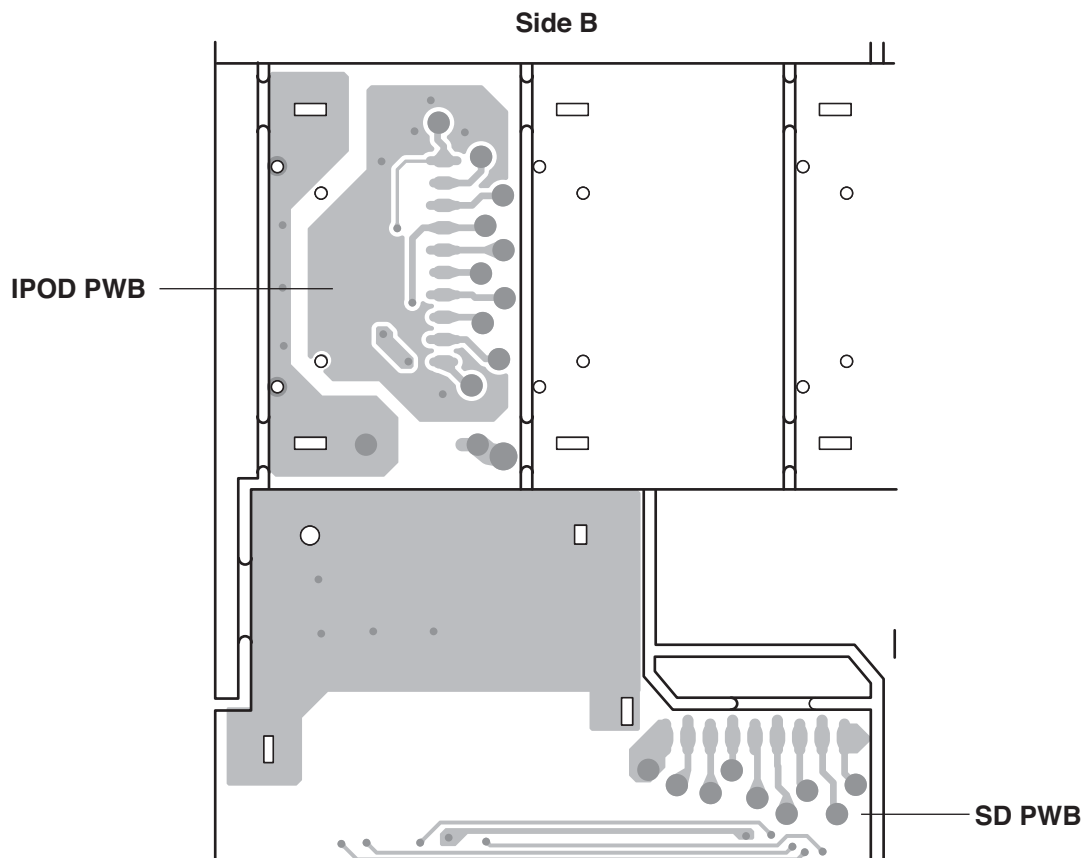
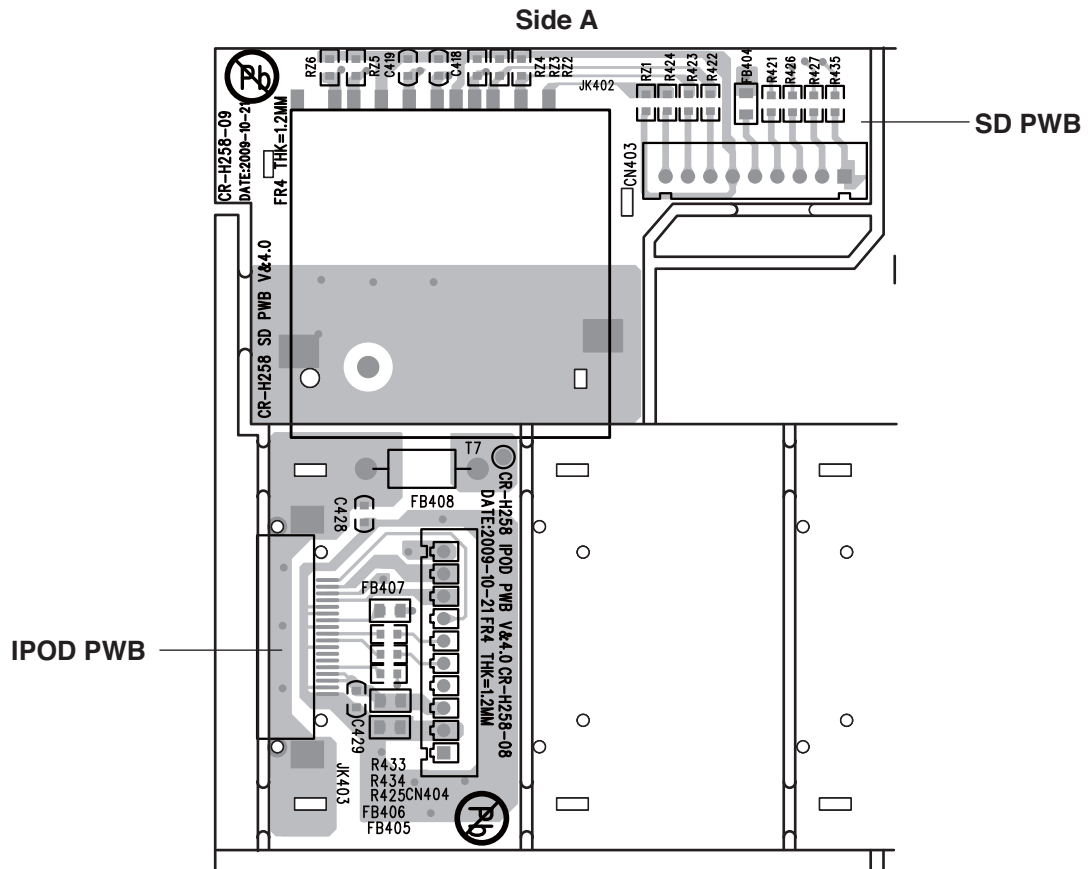
## POWER SUPPLY &amp; DISPLAY PWB ASSY

| REF. NO.                      | PARTS NO.      | DESCRIPTION                                  | REMARKS                                             |
|-------------------------------|----------------|----------------------------------------------|-----------------------------------------------------|
| U301                          | 1512-007812010 | IC, REGULATOR S7812PI TO-220                 | CR-H248: N.M.<br>CR-H238: N.M.                      |
| U302                          | 1512-007912000 | IC, REGULATOR S7912PI TO-220                 |                                                     |
| U303                          | 1512-001117190 | IC, AZ1117T-ADJE1 REGULATOR TO-220-3         |                                                     |
| U304                          | 1505-034063020 | IC, AZ34063AM-E1 DC-TO-DC CONVERTER SO8      |                                                     |
| U305                          | 1512-001117070 | IC, AZ1117H-5.0 TRE1 REGULATOR SOT-223       |                                                     |
| U601                          | 1512-001117080 | IC, AZ1117H-ADJ TRE1 REGULATOR SOT-223       | CR-H238: N.M.                                       |
| U603                          | 1512-001117130 | IC, AZ1117H-3.3TRE1 REGULATOR SOT-223        | CR-H238: N.M.                                       |
| U604                          | 1502-000014000 | IC, HEF4066BT QUADRUPLE BILATERAL SWITCHS    | CR-H258 only                                        |
| DISPLAY PWB 94V0 CR-H258-04   |                |                                              |                                                     |
| C430,431                      | 1138-272092230 | CAP MYLAR 0.0027UF 63V +/-10% 5x10 TAPING    | TO CN502 CR-H248: N.M.<br>TO CN806<br>CR-H248: N.M. |
| CN401                         | 3106-101711010 | FFC CONNECTOR 17PIN P=1.0 MM                 |                                                     |
| CN402                         | 3505-040232000 | HOUSING 4P HEADER - BOARD IN L=230 MM        |                                                     |
| CN405                         | 3505-040382000 | HOUSING 4P HEADER - BOARD IN L=380 MM        |                                                     |
| JK401                         | 3209-040100030 | USB JACK 5070AS-04 BLACK & VERTICAL          |                                                     |
| JK404                         | 3202-000235000 | HP JACK CKX-3.5-28NAB                        |                                                     |
| LED4                          | 1316-310000000 | LED ORANGE 3 MM LTL1CHKYKNN                  |                                                     |
| R431                          | 1231-056022000 | RES, 5.6R 1/4W+/-5% TAPING                   |                                                     |
| RI401                         | 1801-000000270 | IR RECEIVER ARM-3837BW1-L                    |                                                     |
| SW401~407                     | 3302-010143070 | SWITCH TACT THA-064301-160 4.3 160gf         |                                                     |
| VFD1                          | 2401-000000100 | VFD 2x16 DOT MATRIX -VFD030.07.3.05          | VFD1,402                                            |
| VR401,402                     | 3300-000000180 | ENCODER VOLUME EC121102E2B-HA1-052           |                                                     |
| UPDATE PWB 94VO CR-H280-05    |                |                                              |                                                     |
| CN310                         | 3101-200721000 | HEADER 7PIN 2.0 MM 180 DEGREE WHITE          | CN311                                               |
| CN311                         | 3101-200711010 | HEADER 7PIN 2.0 MM 90ANGLE                   |                                                     |
| AC SOCKET PWB 94VO CR-H280-06 |                |                                              |                                                     |
| JK603                         | 3110-000000100 | AC SOCKET VDE PST27-CV [EUR], [JPN], [UK]    | CR-H248: N.M.                                       |
|                               | 3110-000000110 | AC SOCKET UL PST27-RV [USA]                  | TO CN301 CR-H248 N.M.                               |
|                               | 3505-020117900 | HOUSING 2P UL1672 #22 SINGLE HEADER L=110 MM |                                                     |

SPK JACK & POWER AMP PWB



## IPOD & SD PWB



**SPK JACK & POWER AMP PWB ASSY**

| REF. NO.  | PARTS NO.      | DESCRIPTION                                           | REMARKS |
|-----------|----------------|-------------------------------------------------------|---------|
|           | 8905-090400200 | SPK JACK & POWER AMP PWB ASSY CR-H238/258             |         |
|           | 8905-090700200 | SPK JACK & POWER AMP PWB ASSY CR-H248                 |         |
|           | 3701-025800910 | SPK JACK PWB SINGLE SIDE 165x240x1.6 MM/2 CR-H258-09  |         |
| B901      | 1314-010060000 | DIODE GBJ1006 10A BRIDGE RECTIFIER                    |         |
| C904,905  | 1112-338073360 | CAP ELECT,3300UF35V+/-20%16x35                        |         |
| CN903     | 3101-250811000 | HEADER CXR-8WR PH=2.5 MM 8PIN 90 DEGREE WHITE         |         |
| CN904     | 3101-200321020 | HEADER 3PIN 2.0 MM STRAIGHT                           |         |
| CN905     | 3101-390310000 | HEADER 3PIN PH=3.96 MM A3961WR-3P R-ANGLE             |         |
| CN906     | 3101-200521010 | HEADER 5PIN 2.0 MM STRAIGHT                           |         |
| D901      | 1311-141480011 | DIODE 1N4148(PHILIPS)                                 |         |
| FB903,904 | 2711-141190000 | FERRITE BEAD 100MHz 140R RH3.5x9x0.6 MM TAPING(MIDEN) |         |
| JK901     | 3401-000000390 | SPK JACK PST410F-02 RED/BLACK W/4 CAPS(GREATEST)      |         |
|           | 3401-000000400 | SPEAKER JACK WP-413 (QUNYING)                         |         |
| R904,R905 | 1231-391022000 | RES 390R 1/4W +/-5% TAPING                            |         |
| RL901     | 2501-012030010 | POWER RELAY 2P ME-7C 12VDC 3A 12x24x24.8              |         |
| T1        | 3001-010070100 | WIRE IP AWG#22 L=70 MM BLACK SINGLE TERMINAL S-TE-1.3 |         |
|           |                | AMP PWB 94VO CR-H258-10                               |         |
| C922,923  | 1132-477063290 | CAP ELECT, 470UF 25V +/-20% 8x14 TAPING               |         |
| CN901     | 3505-030252010 | HOUSING SHIELD WIRE 3P HEADER - BOARD IN L=250 MM     |         |
| CN902     | 3505-080142510 | HOUSING 8P HEADER - BOARD IN L=140 MM                 |         |
| FB901,902 | 1604-001002000 | RADIAL AXIAL INDUCTOR, 0.1UH DCR=20 mΩ DCI=3.5 A      |         |
| R901,909  | 1231-047022000 | RES, 4.7R 1/4 W +/-5% TAPING                          |         |
| U901      | 1515-007292000 | I.C, POWER AMP TDA7292                                |         |

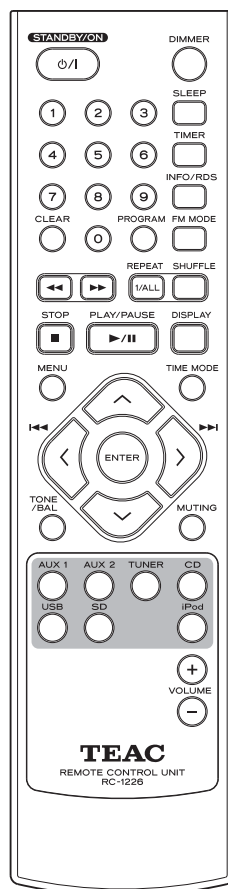
**IPOD & SD PWB ASSY CR-H238/258only**

| REF. NO. | PARTS NO.       | DESCRIPTION                                      | REMARKS |
|----------|-----------------|--------------------------------------------------|---------|
|          | 8964-090400100  | IPOD & SD PWB ASSY                               |         |
|          | L3702-025800730 | SD PWB FR4 DOUBLE SIDE 98x117x1.2MM/4 CR-H258-07 |         |
|          |                 | IPOD PWB CR-H258-08                              |         |
| CN404    | 3505-100042000  | HOUSING 10P HEADER - BOARD IN L=40 MM            |         |
| FB404    | 2721-272030010  | CH-FB,2700 OHM+/-25% 0805                        |         |
| FB407    | 2721-601030030  | CH-FB 600R +/-25% 100 MHZ 0805                   |         |
| JK403    | 3212-180200000  | JACK, 18 PIN FEMALE (DA1R018H91E) JAE            |         |
|          |                 | SD PWB CR-H258-09                                |         |
| CN403    | 3505-090212000  | HOUSING 9P HEADER - BOARD IN L=210 MM            |         |
| JK402    | 3114-000000040  | SD/MMC CARD CONNECTOR PUSH TYPE DT009-20-2080    |         |

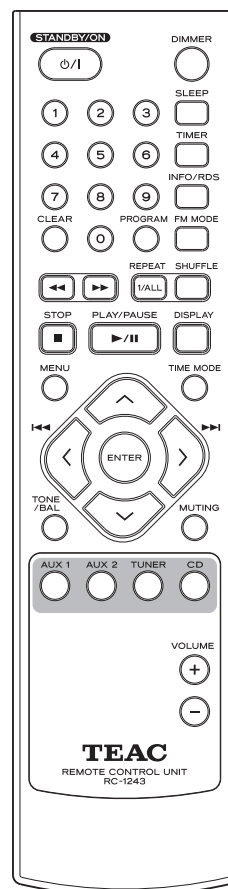
## 5. INCLUDED ACCESSORIES

| REF. NO. | PARTS NO.      | DESCRIPTION                                           | REMARKS |
|----------|----------------|-------------------------------------------------------|---------|
|          | 7202-090600100 | OWNER'S MANUAL (GIN) CR-H238i [EUR]                   |         |
|          | 7202-090600300 | OWNER'S MANUAL (EFS) CR-H238i [EUR], [USA]            |         |
|          | 7202-090600200 | OWNER'S MANUAL (J) CR-H238i [JPN]                     |         |
|          | 7202-090700100 | OWNER'S MANUAL (E) CR-H248 [UK]                       |         |
|          | 7202-090400100 | OWNER'S MANUAL (EG) CR-H258i [EUR], [UK]              |         |
| ⚠        | 2901-112508050 | AC CORD UL POLARIZED 2 PINS L=1.54 M CR-H238 [USA]    |         |
| ⚠        | 2902-125007152 | AC CORD VDE 227 IEC52 L=1.5 M CR-H238/258 [EUR], [UK] |         |
| ⚠        | 2905-125007060 | AC CORD BS 3 PINS 3A FUSED 250V L=1.54 M CR-H258 [UK] |         |
| ⚠        | 2909-125007030 | AC CORD SUN FAI SF-869A/SF L=1.5 M CR-H238 [KOR]      |         |
| ⚠        | 2913-112507010 | AC CORD 2 PINS 7A 125V L=1.54 M CR-H238 [JPN]         |         |
|          | 3009-001400100 | FM WIRE ANTENNA W/PLUG L=1400 MM CR-H238              |         |
|          | 5926-081000100 | AM ANT LOOP 5T 1300MM 9.5uH CR-H238/258               |         |
|          | 3009-021500100 | DAB T.ANT HF-083764-001-001 CR-H248/258               |         |
|          | 4201-730215030 | BATTERY AAA 7# 3A 1.5V R03 LARGE                      |         |
|          | 1901-000010200 | REMOTE CONTROL UNIT, RC-1226 CR-H238/258              |         |
|          | 1901-000011400 | REMOTE CONTROL UNIT, RC-1243 CR-H248                  |         |

**REMOTE CONTROL UNIT  
for CR-H238i/CR-H258i  
RC-1226**



**REMOTE CONTROL UNIT  
for CR-H248  
RC-1243**



# CR-H248/CR-H258i/ CR-H238i

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# TEAC

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**TEAC CORPORATION** 1-47,Ochiai, Tamashi, Tokyo 206-8530, Japan Phone: (042) 356-9155

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TEAC AMERICA, INC. 7733 Telegraph Road, Montebello, California 90640 Phone: (323) 726-0303

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TEAC CANADA LTD. 5939 Wallace Street, Mississauga, Ontario L4Z 1Z8, Canada Phone: (905) 890-8008

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TEAC MEXICO, S.A. De C.V Rio Churubusco 364, Colonia Del Carmen, Delegación Coyoacán, CP 04100, México DF, México Phone: (5255) 5010-6000

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TEAC UK LIMITED Unit 19 & 20, The Courtyards, Hatters Lane, Watford, Hertfordshire, WD18 8TE, U.K. Phone: (0845) 130-2511

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TEAC EUROPE GmbH Bahnstrasse 12, 65205 Wiesbaden-Erbenheim, Germany Phone: 0611-71580

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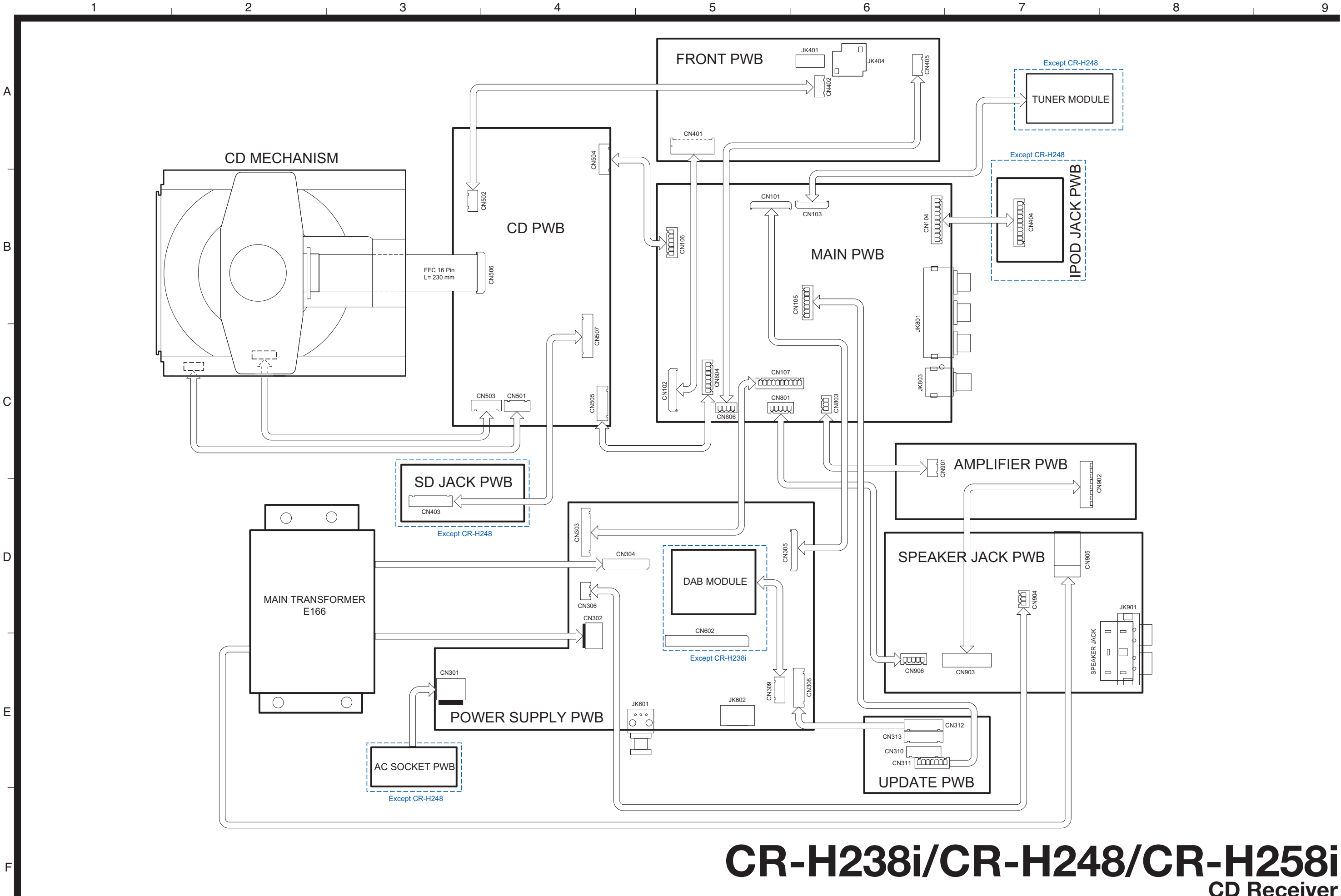


**SCHEMATIC DIAGRAMS**

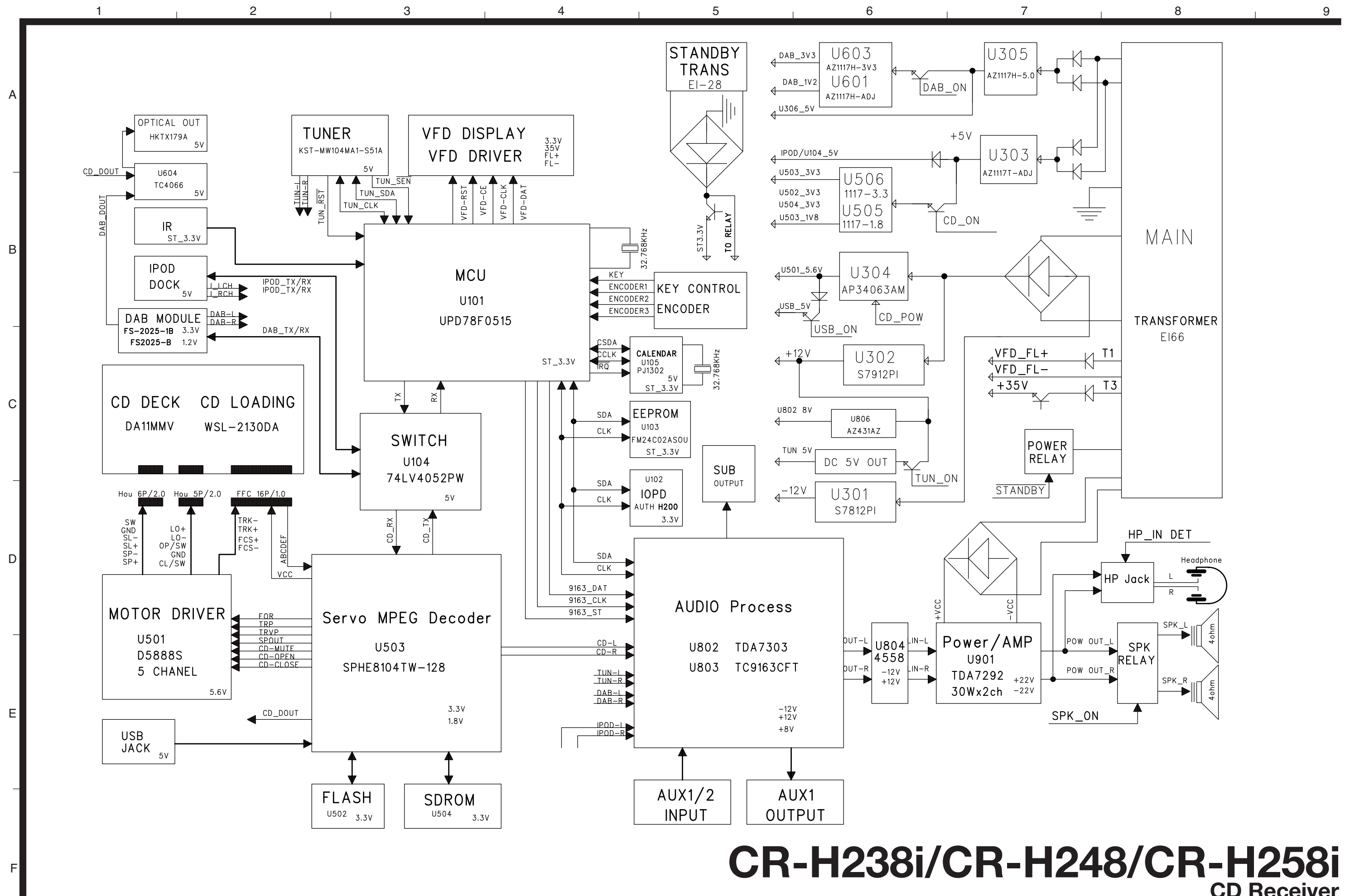
**CONTENTS**

|                                      |   |
|--------------------------------------|---|
| Wiring Diagram .....                 | 2 |
| Block Diagram .....                  | 3 |
| MCU+AUDIO+IPOD PWB .....             | 4 |
| CD PWB.....                          | 5 |
| DC POWER+FRONT+AMP+SPEAKER PWB ..... | 6 |

**CR-H238i/CR-H248/CR-H258i**  
**CD Receiver**

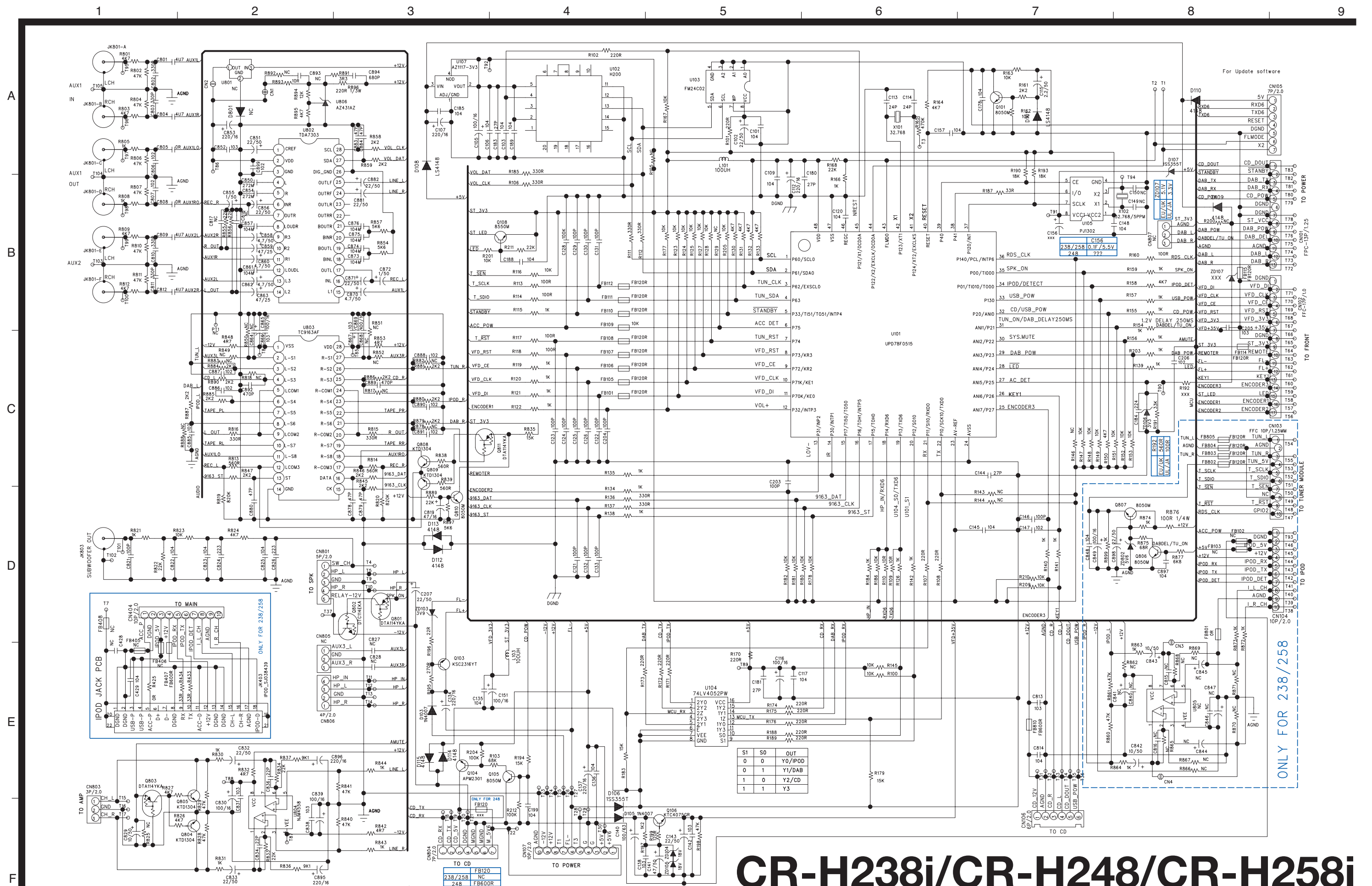


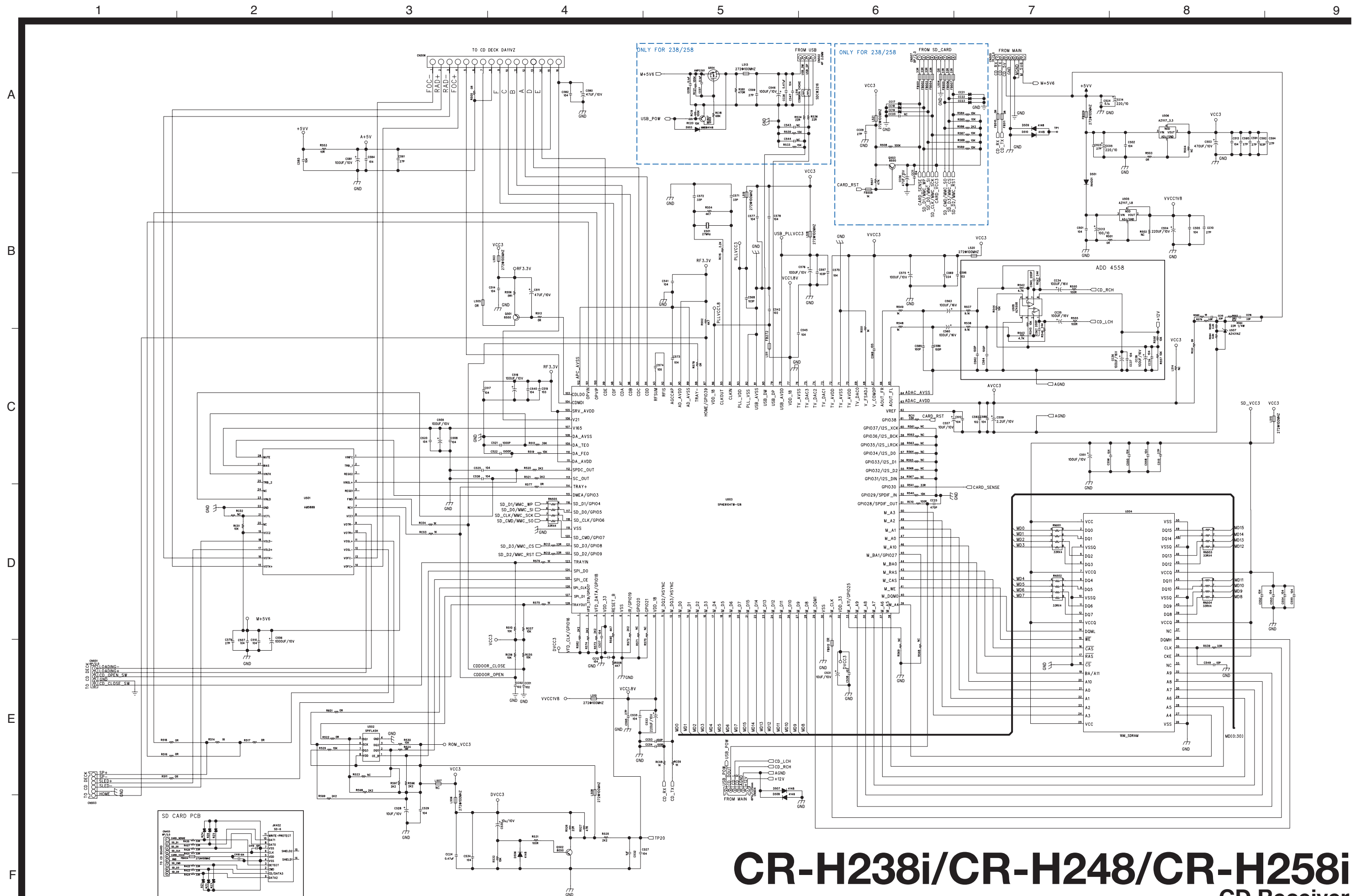
CR-H238i/CR-H248/CR-H258i  
CD Receiver

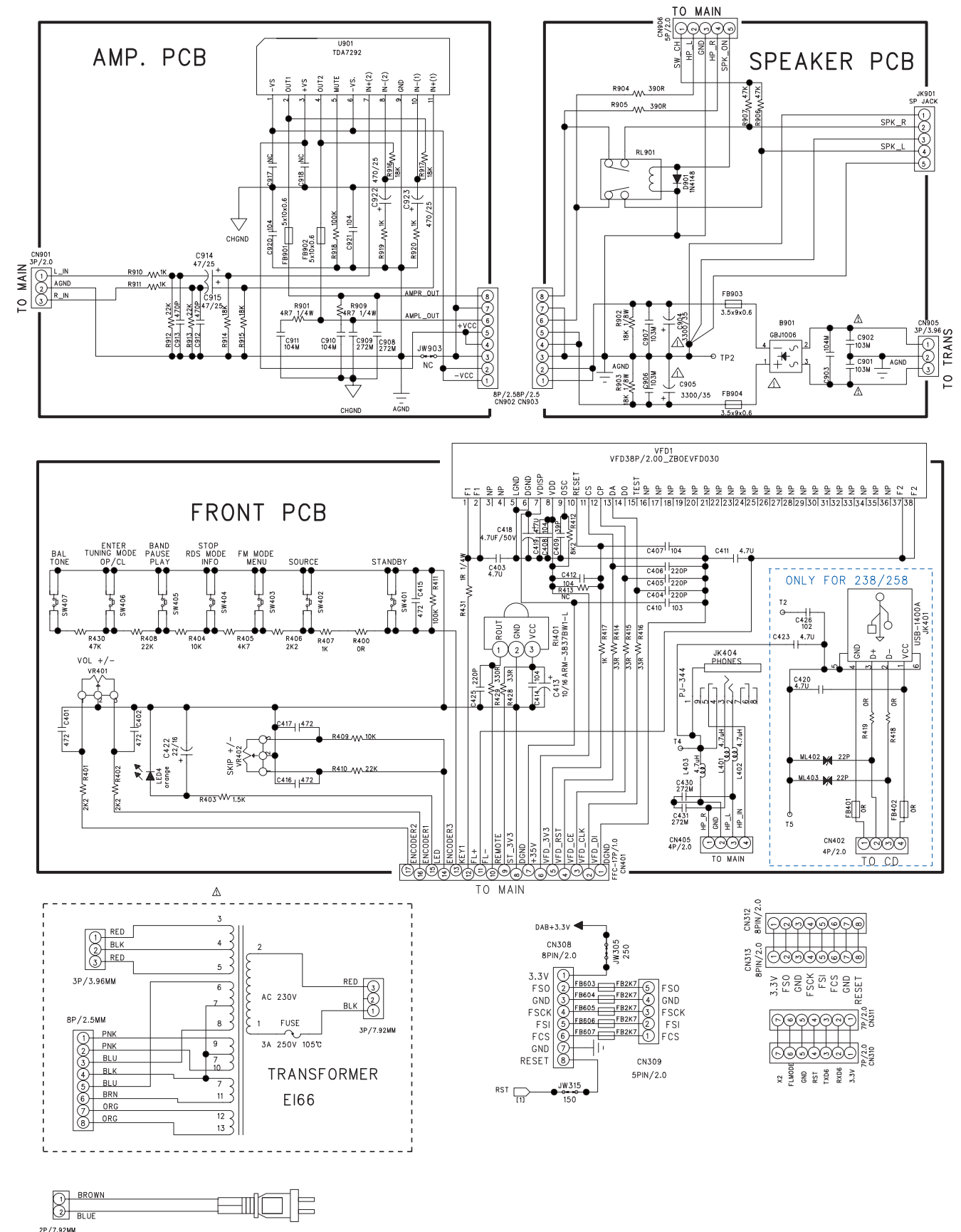
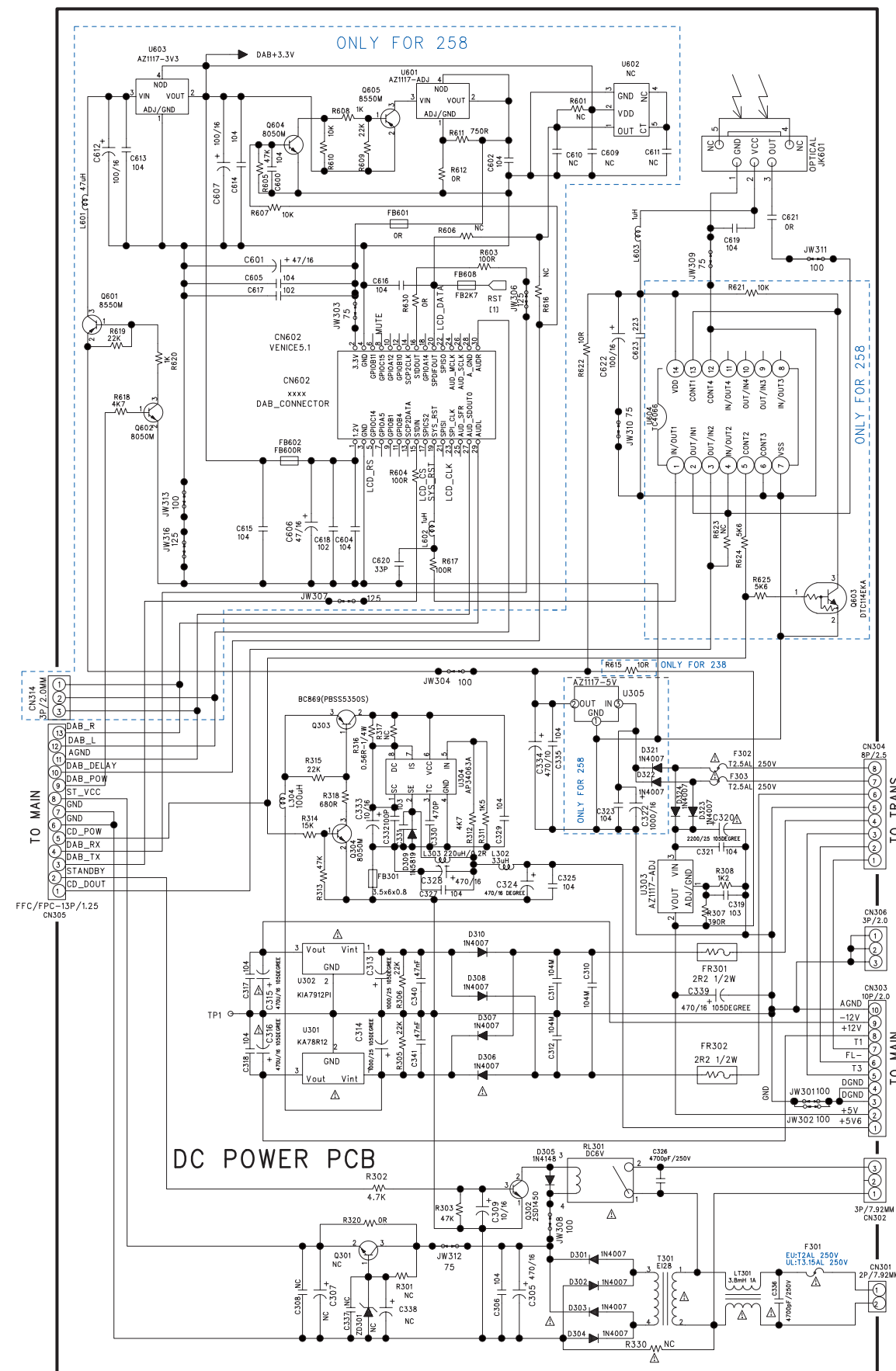


# CR-H238i/CR-H248/CR-H258i

## CD Receiver







# CR-H238i/CR-H248/CR-H258i

