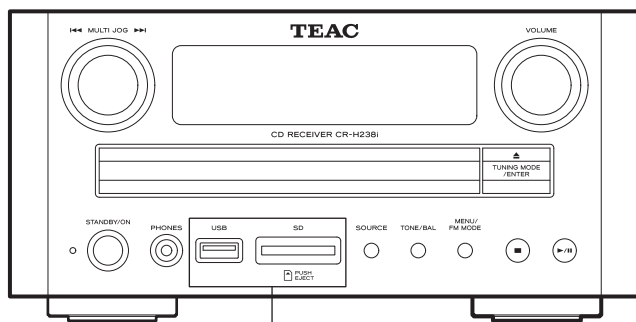




Only for CR-H238/CR-H258

TEAC

SERVICE MANUAL

CR-H248/CR-H258i/ CR-H238i

CD Receiver



Except CR-H248



Digital Audio Broadcasting

Except CR-H238i



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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.

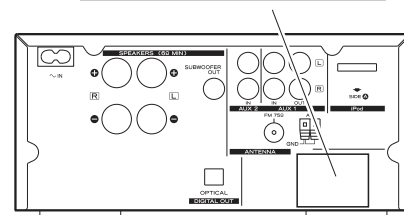
Optical pickup :

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

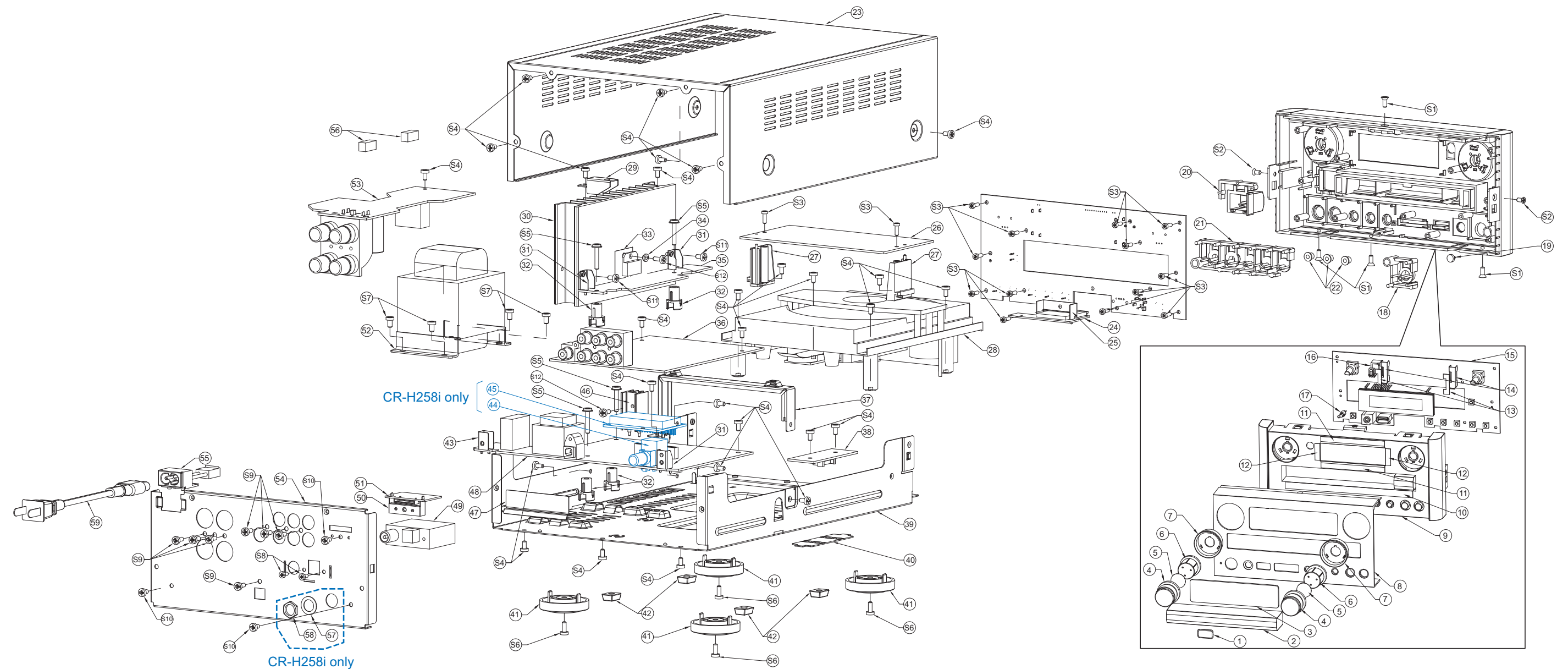
For U.S.A.

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 (CR-H238i/CR-H258i)



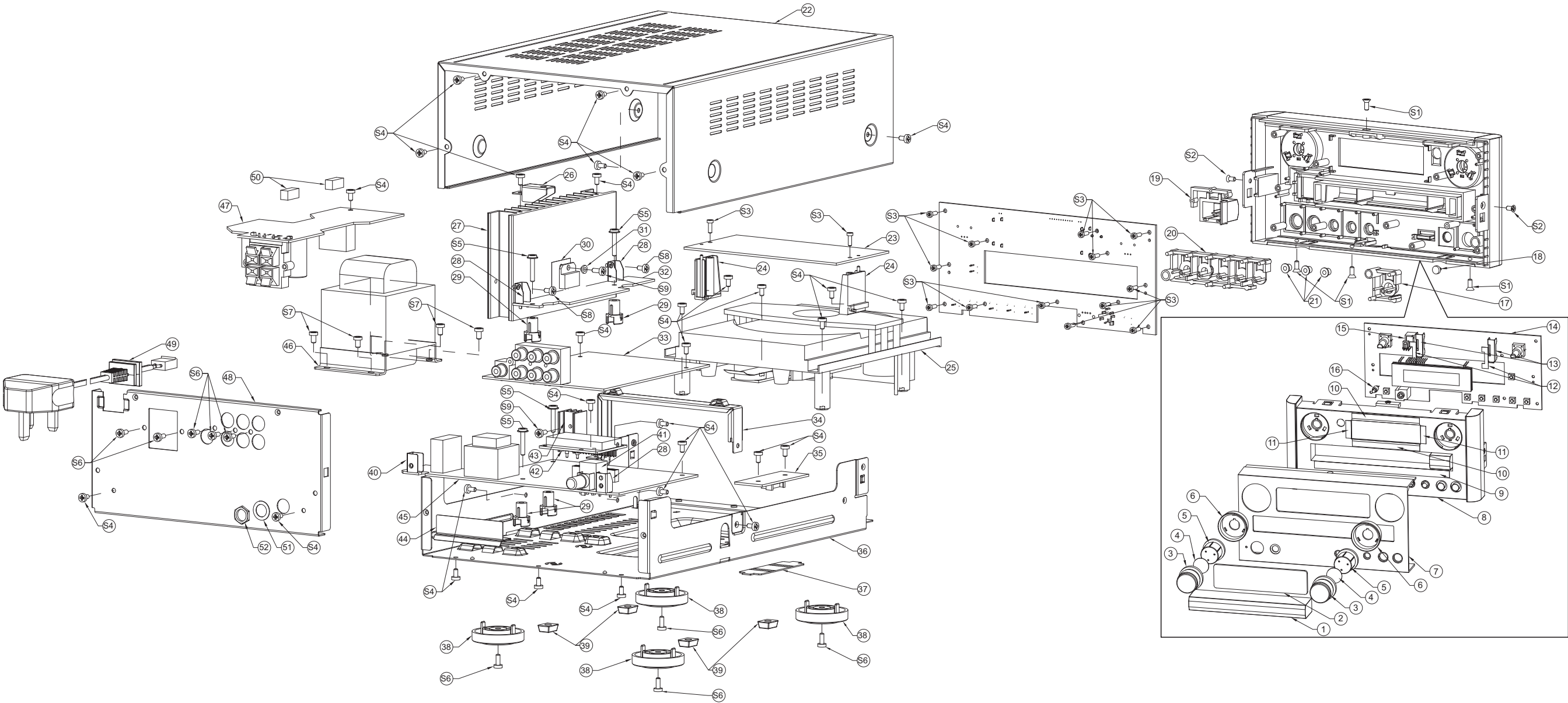
EXPLODED VIEW (CR-H238i/CR-H258i)

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	United on SPK JACK & POWER AMP PWBA, see page 17
34	5939-080700100	PLASTIC WASHER D6.0XH2.7XD3.0 PA66_V0	
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 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 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)

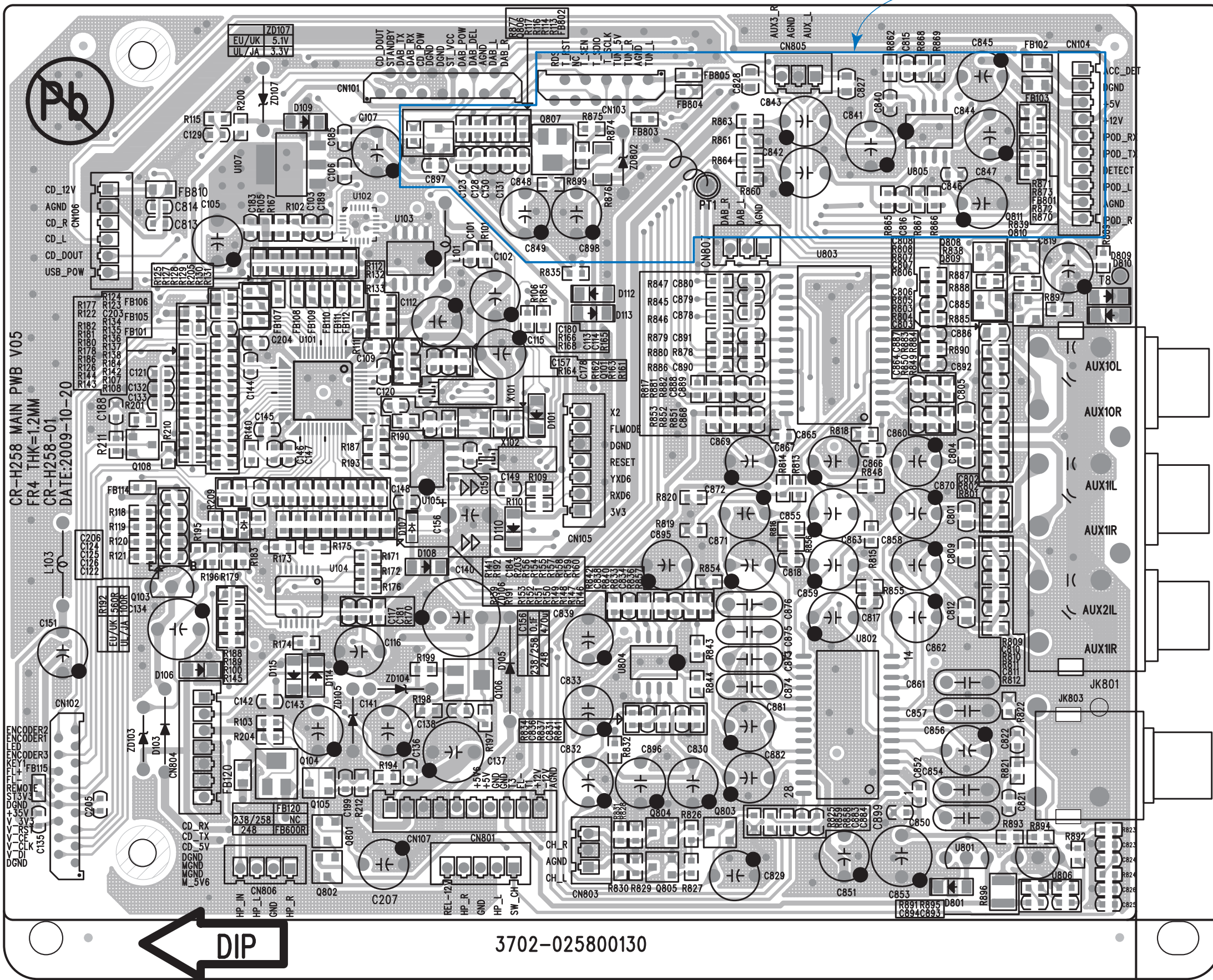
REF. NO.	PARTS NO.	DESCRIPTION	REMARKS
1	5201-090700100	DOOR - CD BLACK [UK]	
2	5501-090600100	LENS - VFD DISPLAY	
3	6828-090700100	ALUMINIUM VOL KNOB CAP, BLACK	
4	7902-090700200	DOUBLE SIDE ADHESIVE TAPE DIA.17 MM	
5	5307-090600100	KNOB - VOLUME	
6	5905-090600100	RING - VOLUME KNOB	
7	6830-090700100	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

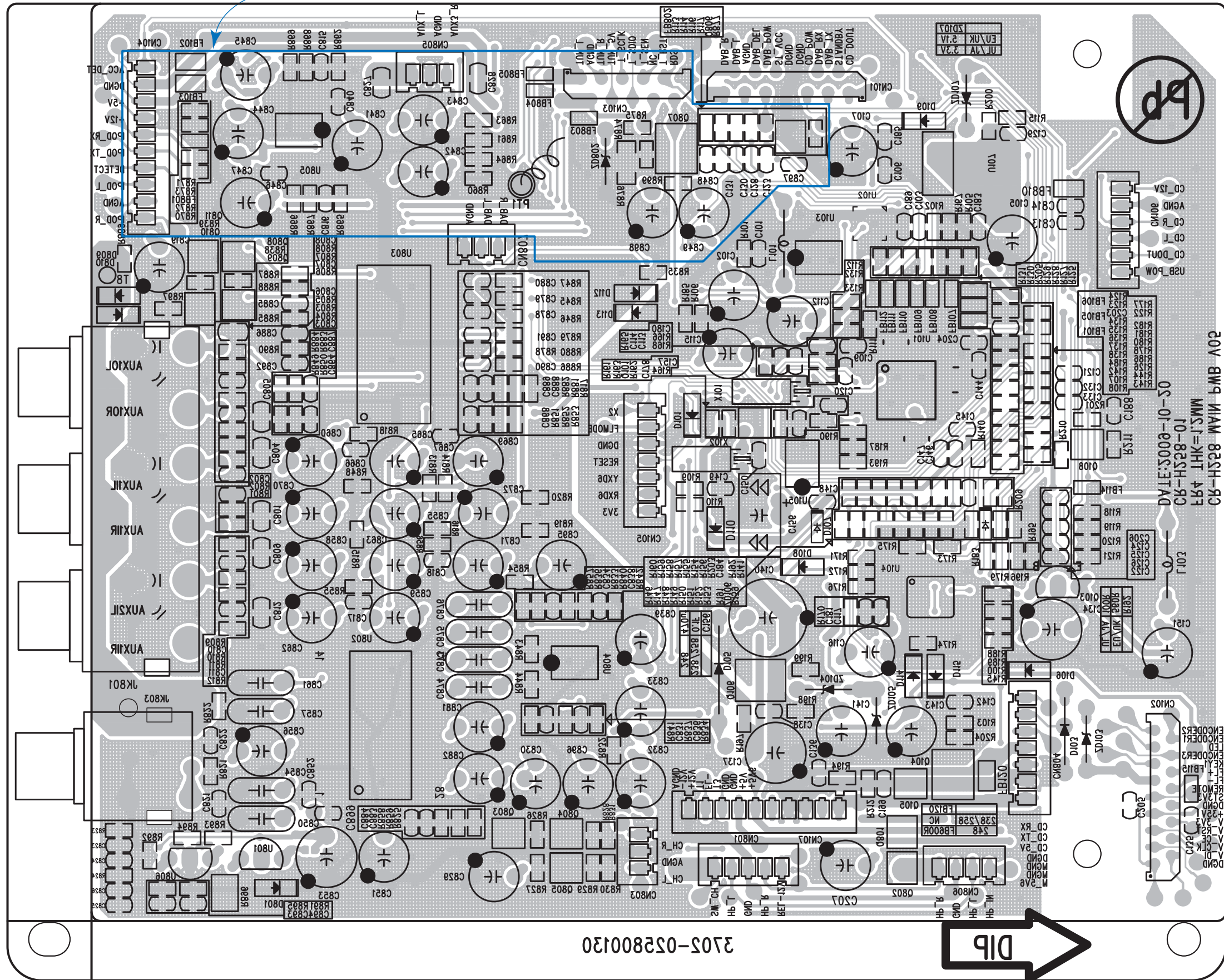
248: N.M. = NO MOUNT



MAIN PWB

Side B

248: N.M. = NO MOUNT



910

MAIN PWB ASSY

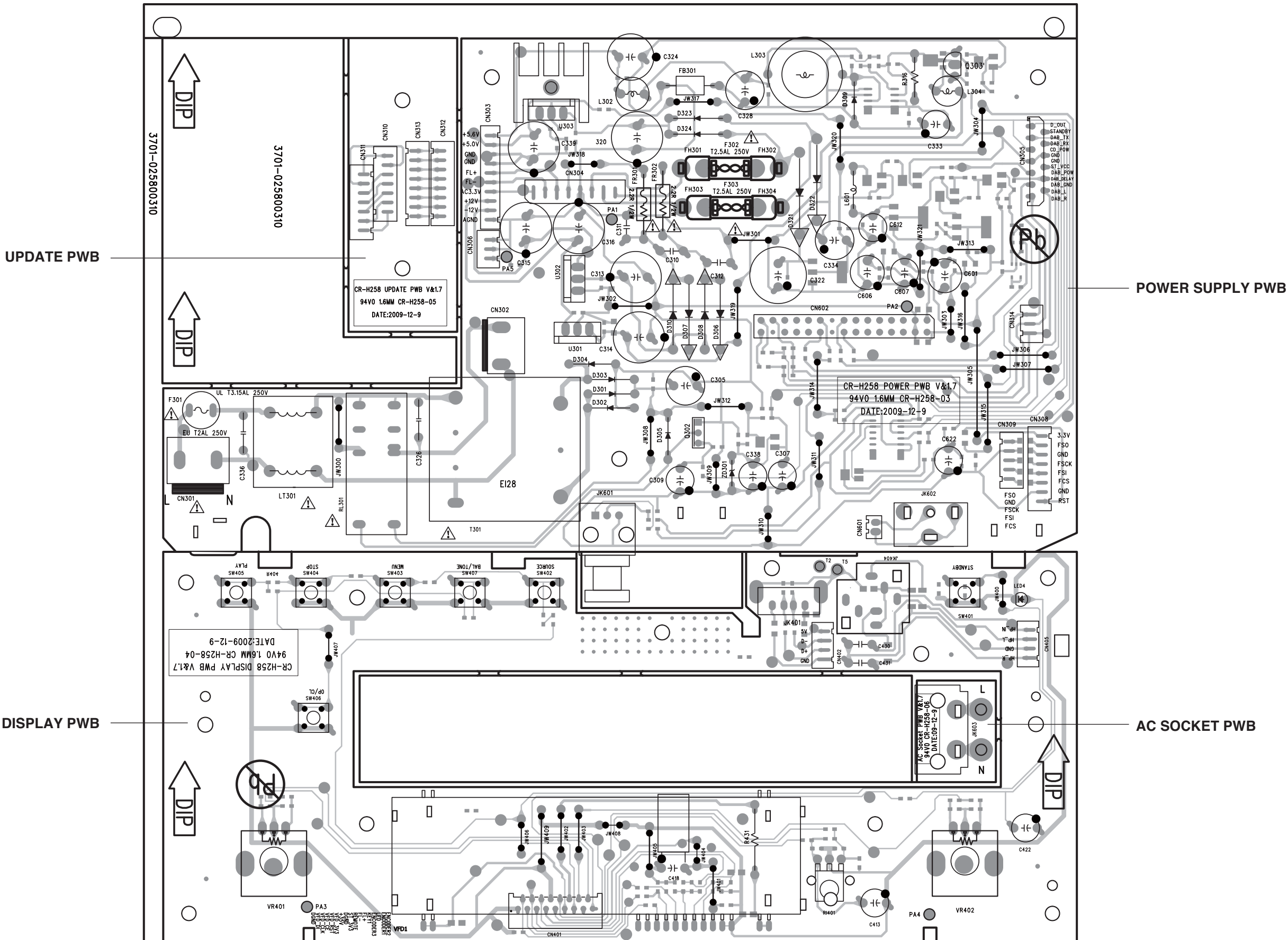
REF. NO.	PARTS NO.	DESCRIPTION	REMARKS
	8901-090400100	MAIN PWB ASSY [UK] CR-H258	
	8901-090600100	MAIN PWB ASSY [EUR] CR-H238	
	8901-090600200	MAIN PWB ASSY [JPN], [USA] CR-H238	
	8901-090700100	MAIN PWB ASSY [UK] CR-H248	
	3702-025800130	MAIN PWB FR4 DOUBLE SIDE 146.2x117.2x1.2 MM CR-H258-01	
C105,116,151,830	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 C509,516,546,551 C560,563,575,576 C581	1132-107053060	CAP ELECT, 100UF 16V +/-20% 5X11 TAPING	CR-H248: C546 N.M.
CC17,18,19,21,22 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 & DISPLAY PWB

Side B



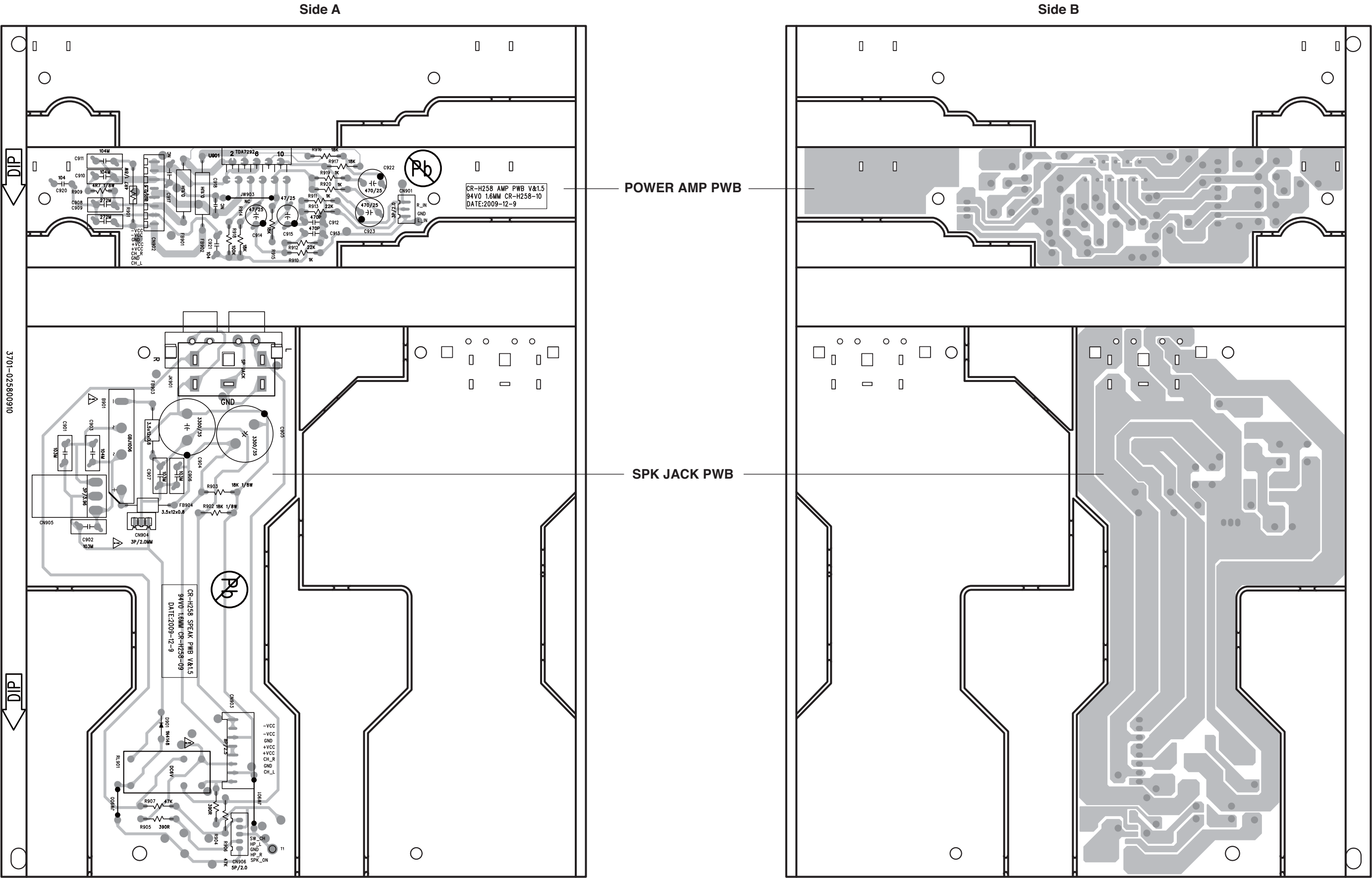
POWER SUPPLY & DISPLAY PWB ASSY

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 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]	

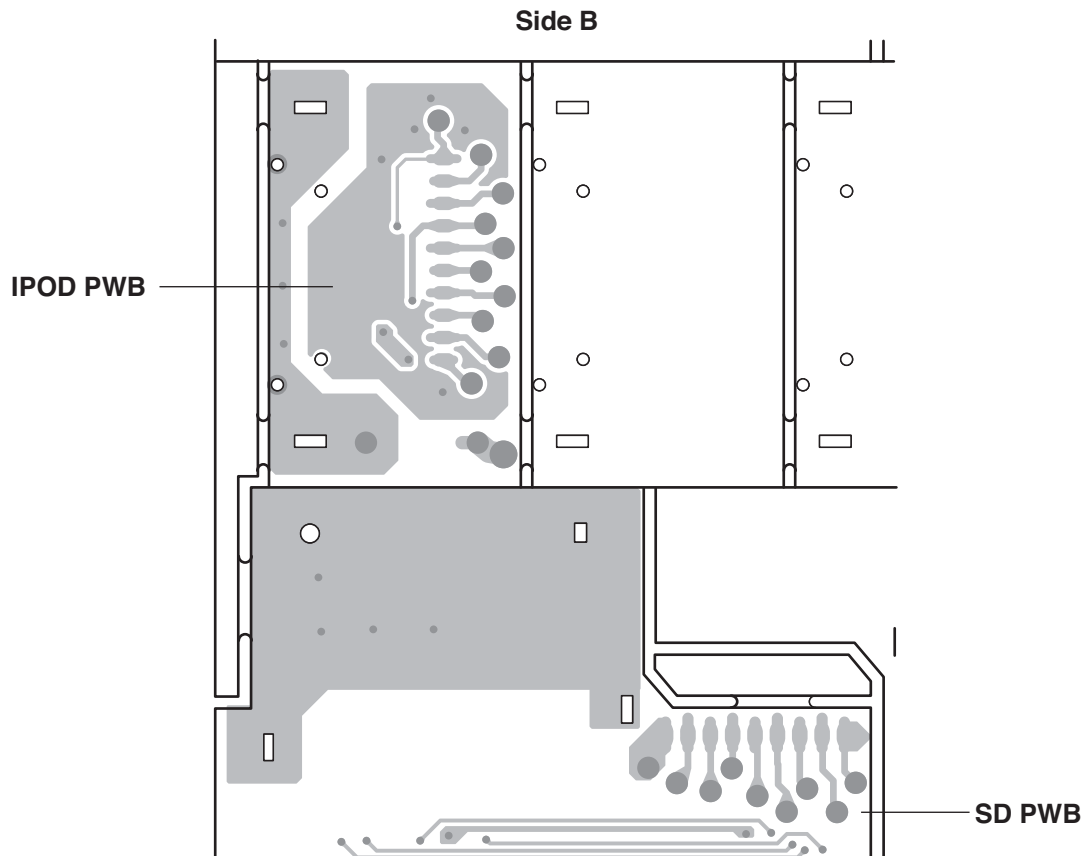
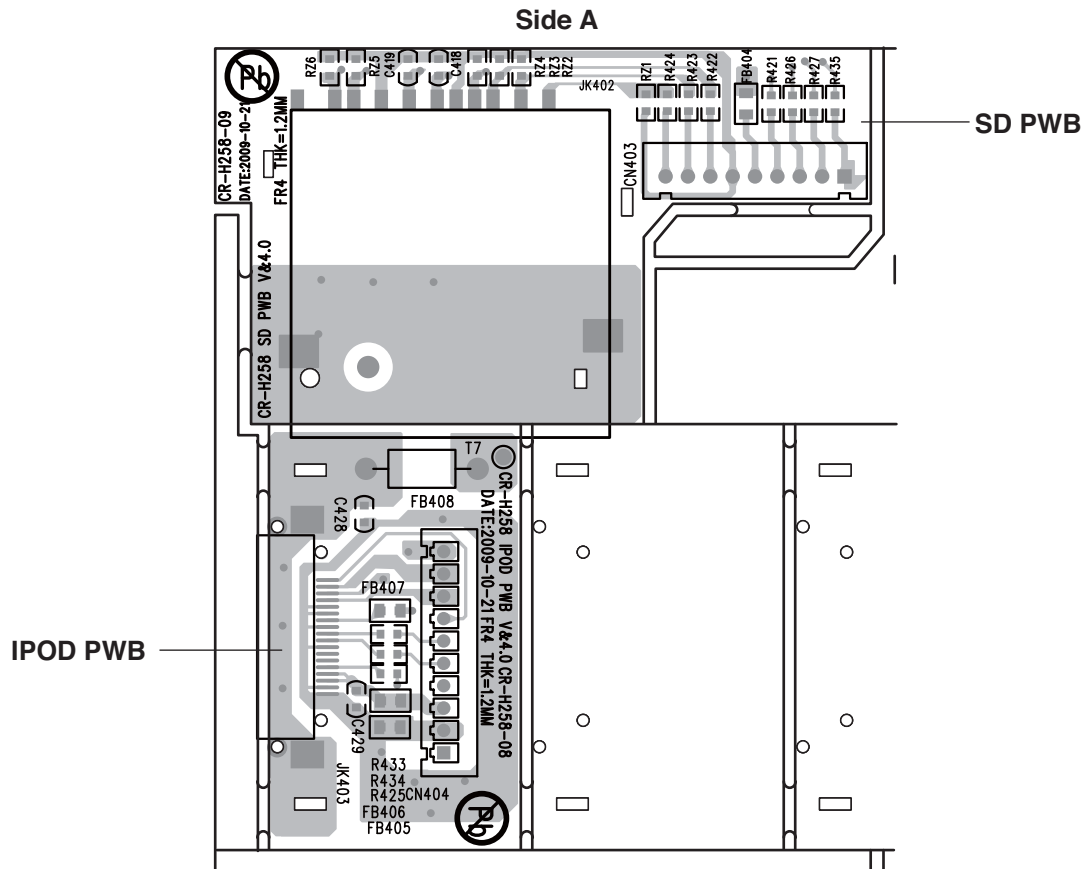
POWER SUPPLY & DISPLAY PWB ASSY

REF. NO.	PARTS NO.	DESCRIPTION	REMARKS
U301	1512-007812010	IC, REGULATOR S7812PI TO-220	CR-H248: N.M. 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 QUADRUPLER BILATERAL SWITCHES	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. TO CN806 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	
VR401,402	3300-000000180	ENCODER VOLUME EC121102E2B-HA1-052	
UPDATE PWB 94V0 CR-H280-05			
CN310	3101-200721000	HEADER 7PIN 2.0 MM 180 DEGREE WHITE	
CN311	3101-200711010	HEADER 7PIN 2.0 MM 90ANGLE	
AC SOCKET PWB 94V0 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	

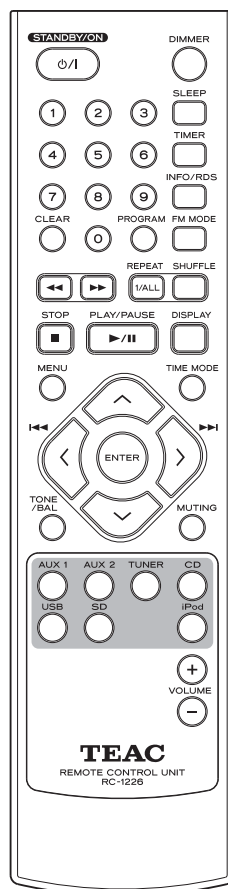
IPOD & SD PWB ASSY CR-H238/258only

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	

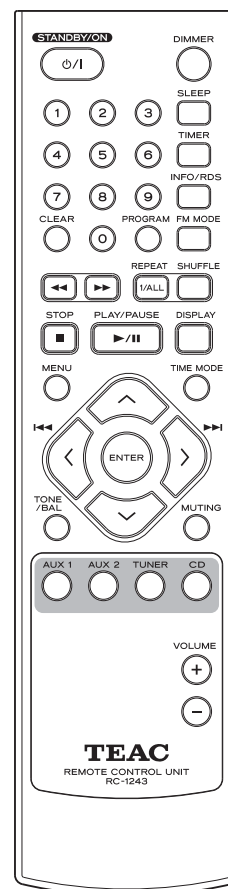
5. INCLUDED ACCESSORIES

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

TEAC

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



SCHEMATIC DIAGRAMS

CONTENTS

Wiring Diagram 2

Block Diagram 3

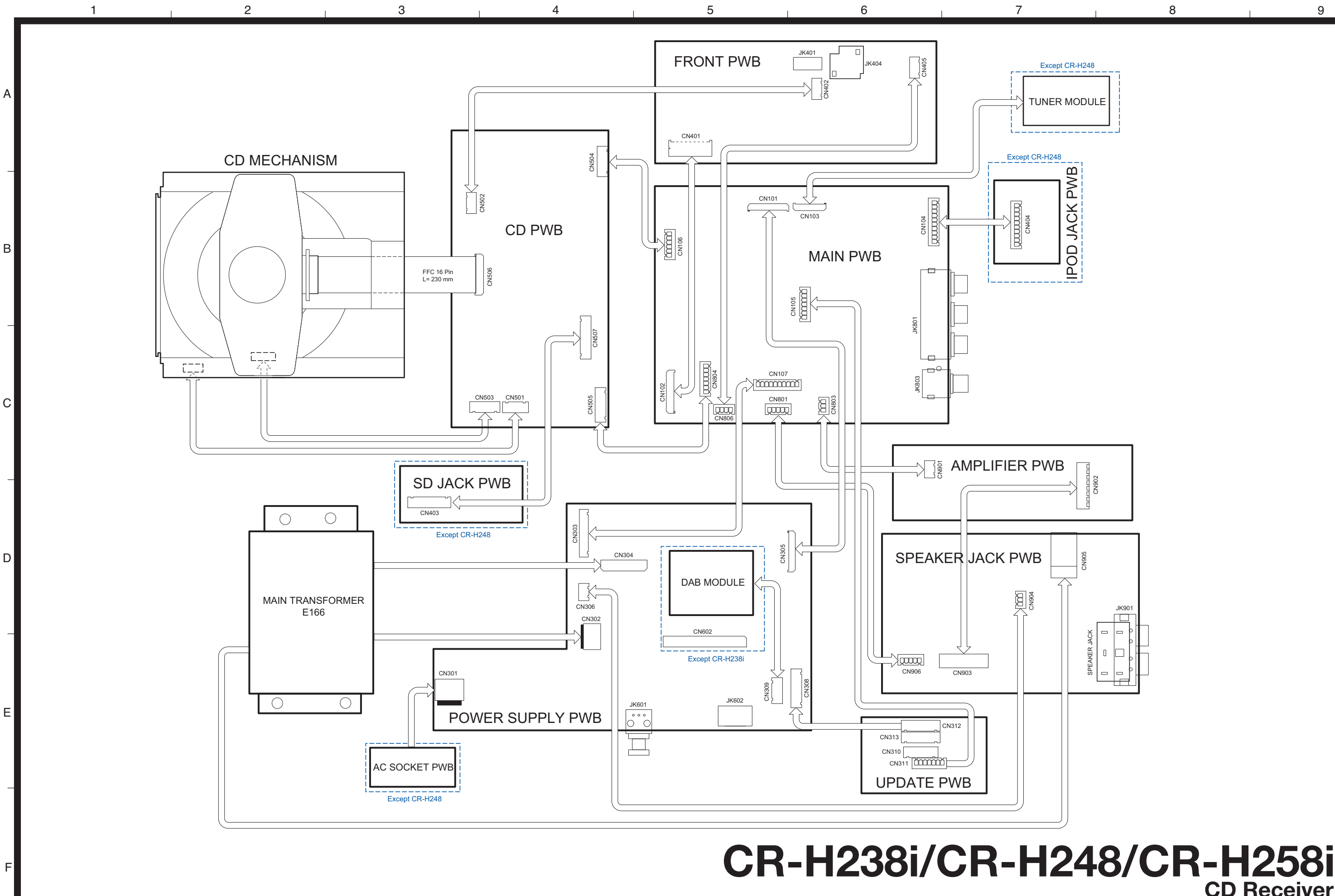
MCU+AUDIO+IPOD PWB 4

CD PWB..... 5

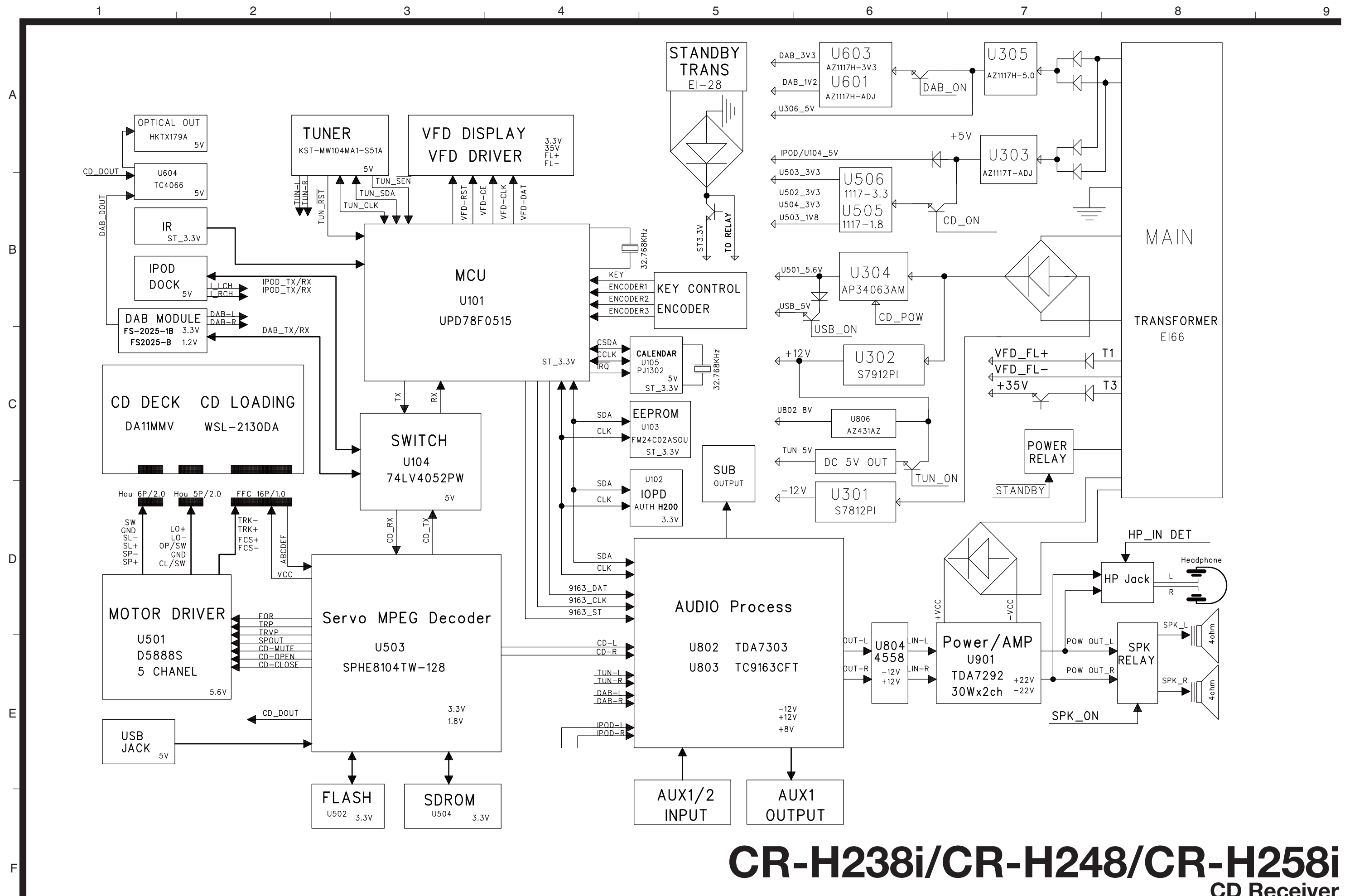
DC POWER+FRONT+AMP+SPEAKER PWB 6

CR-H238i/CR-H248/CR-H258i

CD Receiver

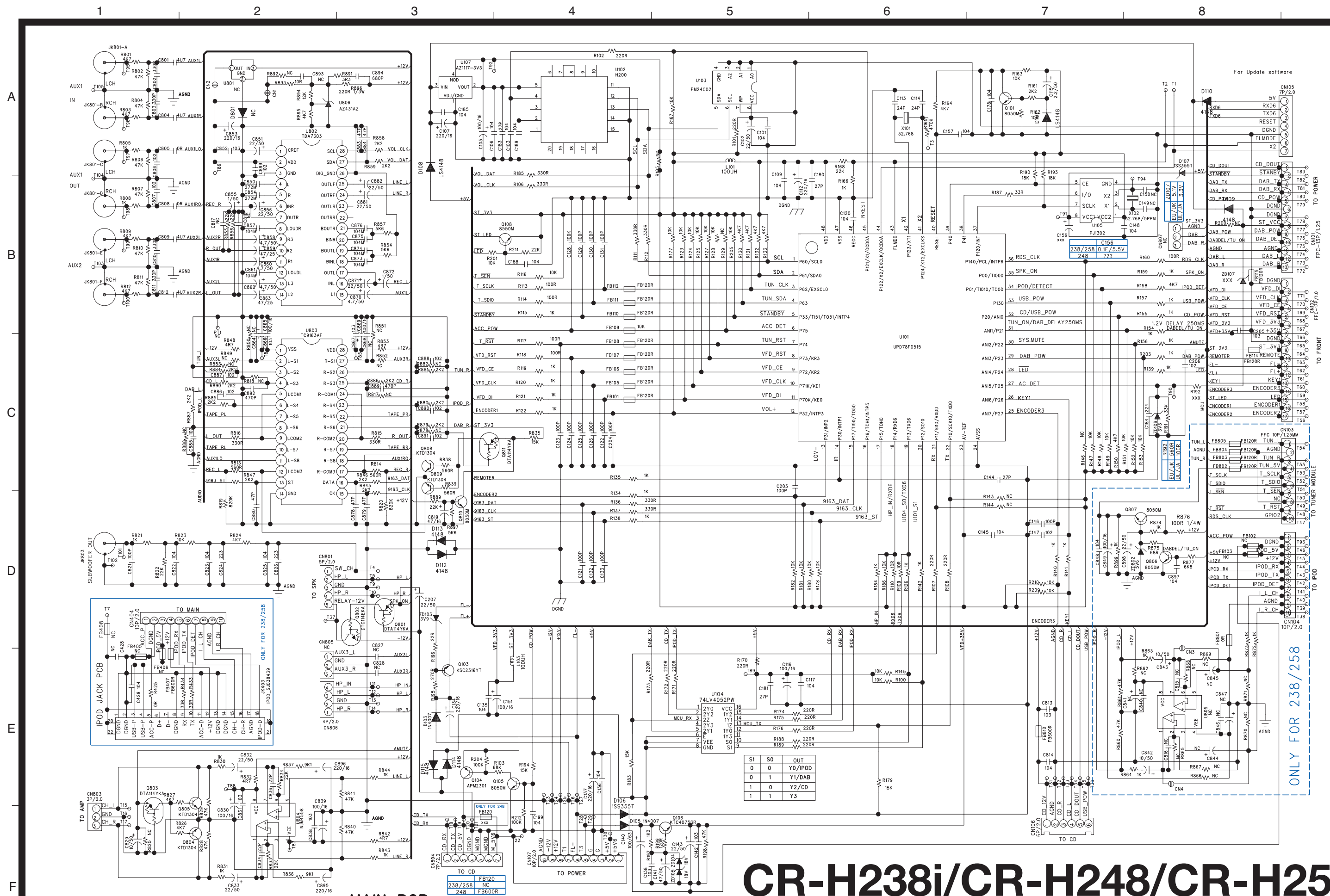


CR-H238i/CR-H248/CR-H258i
CD Receiver

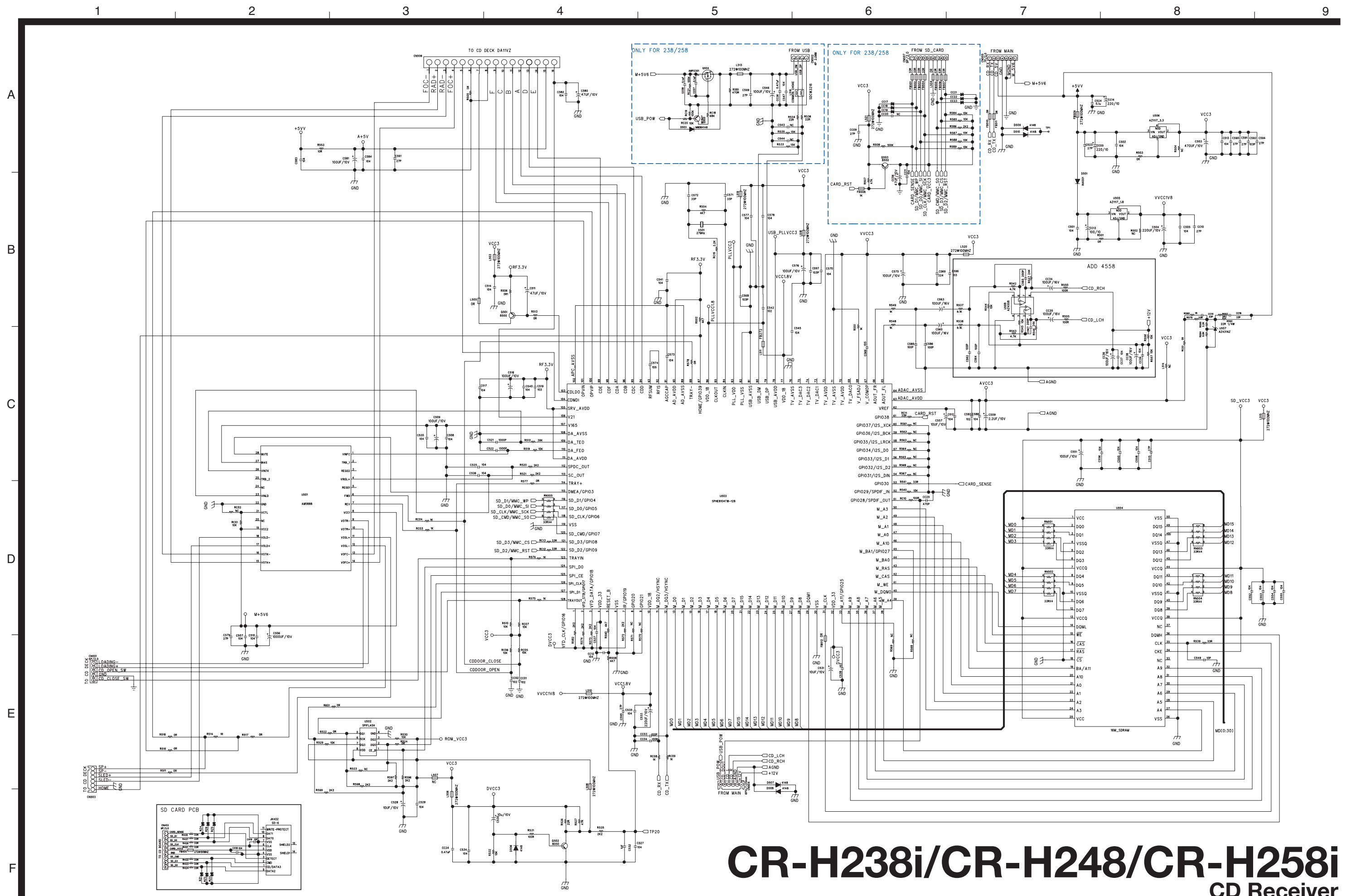


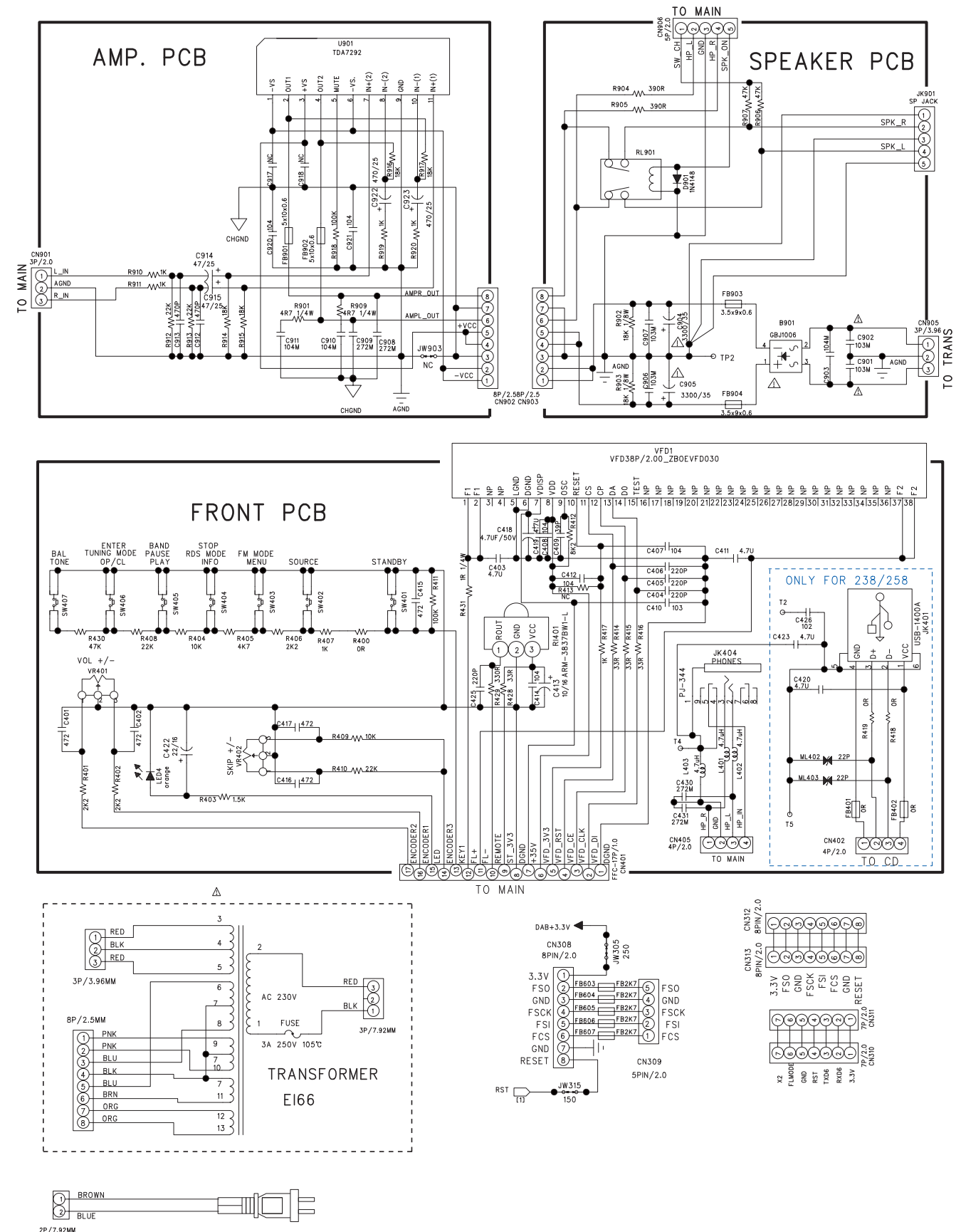
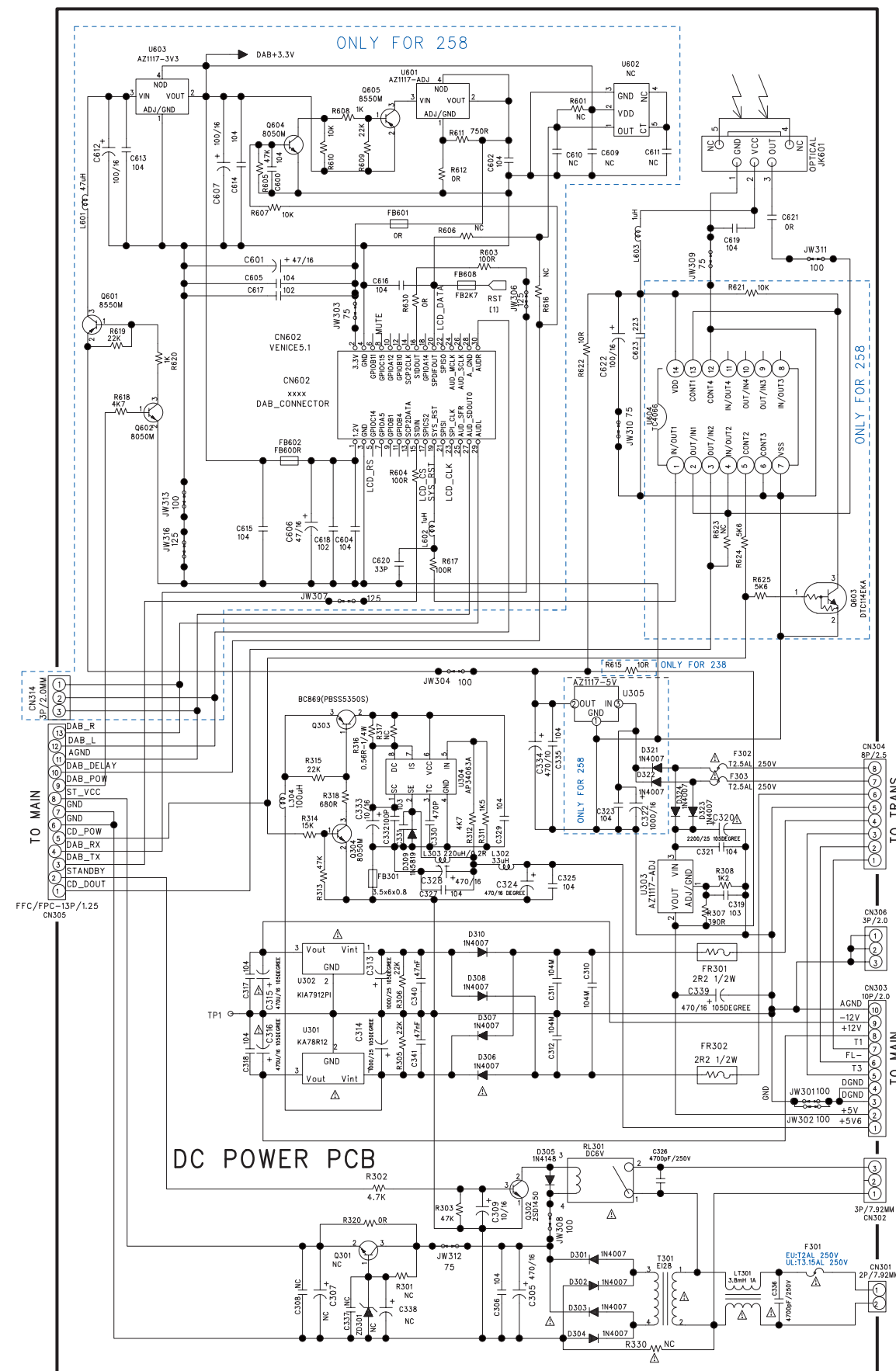
CR-H238i/CR-H248/CR-H258i

CD Receiver



CR-H238i/CR-H248/CR-H258i





CR-H238i/CR-H248/CR-H258i

