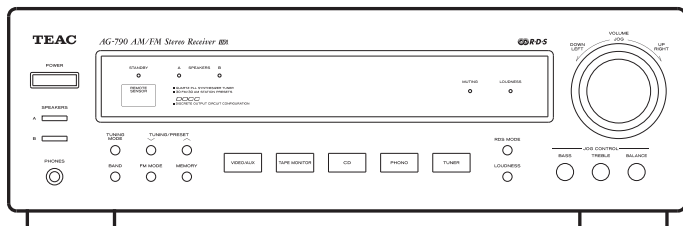


TEAC



SERVICE MANUAL

AG-790E

AM/FM STEREO RECEIVER

Model name of the AG-790 has been changed to AG-790E from S/N 0AL0001 and higher to cope with Eco Power requirement. Use this service manual according to the S/N of the unit.

CONTENTS

1. SPECIFICATIONS	2
2. BRIEF OVERVIEW OF LSI	3
3. EXPLODED VIEWS AND PARTS LISTS	6
4. PC BOARDS AND PARTS LISTS	8
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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, [UK]: U.K., [USA]: U.S.A.

1. SPECIFICATIONS

Amplifier Section

Output Power 90 + 90 watts RMS
(0.9 % THD, 1 kHz, 8 ohms)
Total Harmonic Distortion 0.05 % (at 80 watts, 1 kHz)
Input Sensitivity/Impedance PHONO: 6.5 mV/22 kohms
LINE: 230 mV/22 kohms
Signal-to-Noise Ratio PHONO: 75 dB (IHF-A)
LINE: 90 dB (IHF-A)
Tone Control BASS: ± 10 dB at 100 Hz
TREBLE: ± 10 dB at 10 kHz
Loudness Control +4 dB at 100 Hz

FM Tuner Section

Tuning Range 87.5 MHz to 108.0 MHz
Usable Sensitivity Mono: 10 dB μ V/m
50 dB Quieting Sensitivity Mono: 15 dB μ V/m
Stereo: 33 dB μ V/m
Image Rejection Ratio 35 dB
AM Suppression Ratio 50 dB
Harmonic Distortion (1 kHz) Mono: 0.5 %, Stereo: 0.5 %
Frequency Response 20 Hz to 15 kHz, -3 dB
Stereo Separation (1 kHz) 35 dB
Signal-to-Noise Ratio Mono: 70 dB
Stereo: 65 dB (IHF-A)

AM Tuner Section

Tuning Range 522 kHz to 1,620 kHz, 9 kHz steps
[EUR], [UK]
530 kHz to 1,720 kHz, 10 kHz steps
[USA]
Usable Sensitivity 55 dB
Total Harmonic Distortion 1 % at 100 dB μ V/m
Signal-to-Noise Ratio 40 dB at 100 dB μ V/m

General

Power Requirements
230 V AC, 50 Hz [EUR], [UK]
120 V AC, 60 Hz [USA]
Power Consumption 280 W [EUR], [UK]
2.5A [USA]
0.6 W (standby)
AC Outlet (Total 100 W max) Unswitched x 1
Dimensions (W x H x D) 435 x 144 x 330 mm
Weight (net) 7.4 kg (16.31 lb)
Operating temperature +5°C - +35°C
Operating humidity 5% - 85% (no condensation)
Storage temperature -20°C - +55°C

Standard Accessories

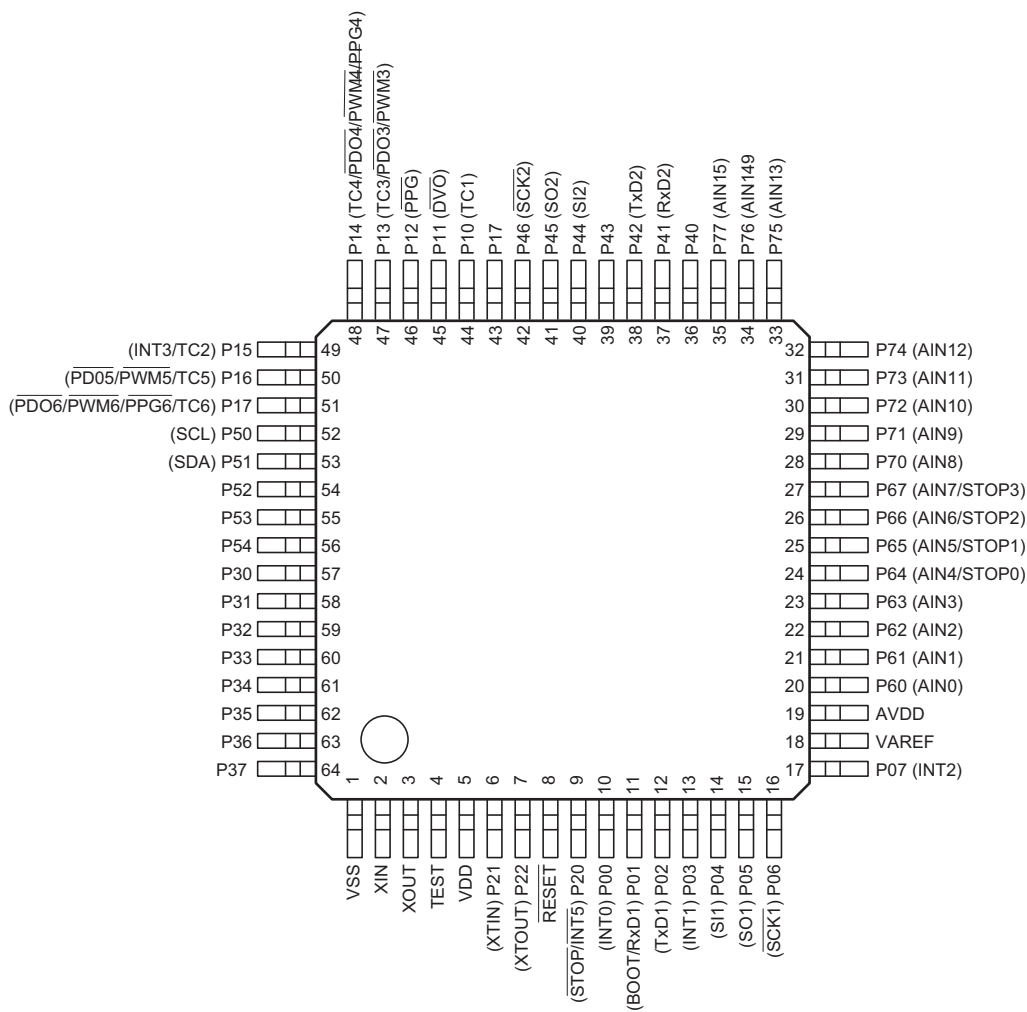
AM Loop Antenna x 1
FM Antenna x 1
Remote Control Unit (UR-415B) x 1
Battery (AA, R6, SUM-3) x 2
Owner's manual x 1
Warranty card x 1

*LINE means CD, TAPE MONITOR, VIDEO/AUX.

2. BRIEF OVERVIEW OF LSI

CMOS 8-Bit MCU with 61440 bytes Flash memory (PQFP64)
TOSHIMA T5CB5, FRONT PCBA IC91

Pin Configuration (Top View)



Control pins

Pin No.	Control Pin	Input/Output	Input/Output Circuitry	Remarks
2	XIN	Input		Resonator connecting pins (High frequency) $R_f = 1.2 \text{ M}\Omega$ (typ.) $R_o = 0.5 \text{ M}\Omega$ (typ.)
3	XOUT	Output		

6	XTIN	Input		Resonator connecting pins (Low frequency) $R_f = 6\text{ M}\Omega$ (typ.) $R_o = 220\text{ k}\Omega$ (typ.)
7	XTOUT	Output		
8	$\overline{\text{RESET}}$	Input		Hysteresis input Pull-up resistor $R_{IN} = 220\text{ k}\Omega$ (typ.) $R = 100\text{ }\Omega$ (typ.)
3	TEST	Input		$R = 100\text{ }\Omega$ (typ.)

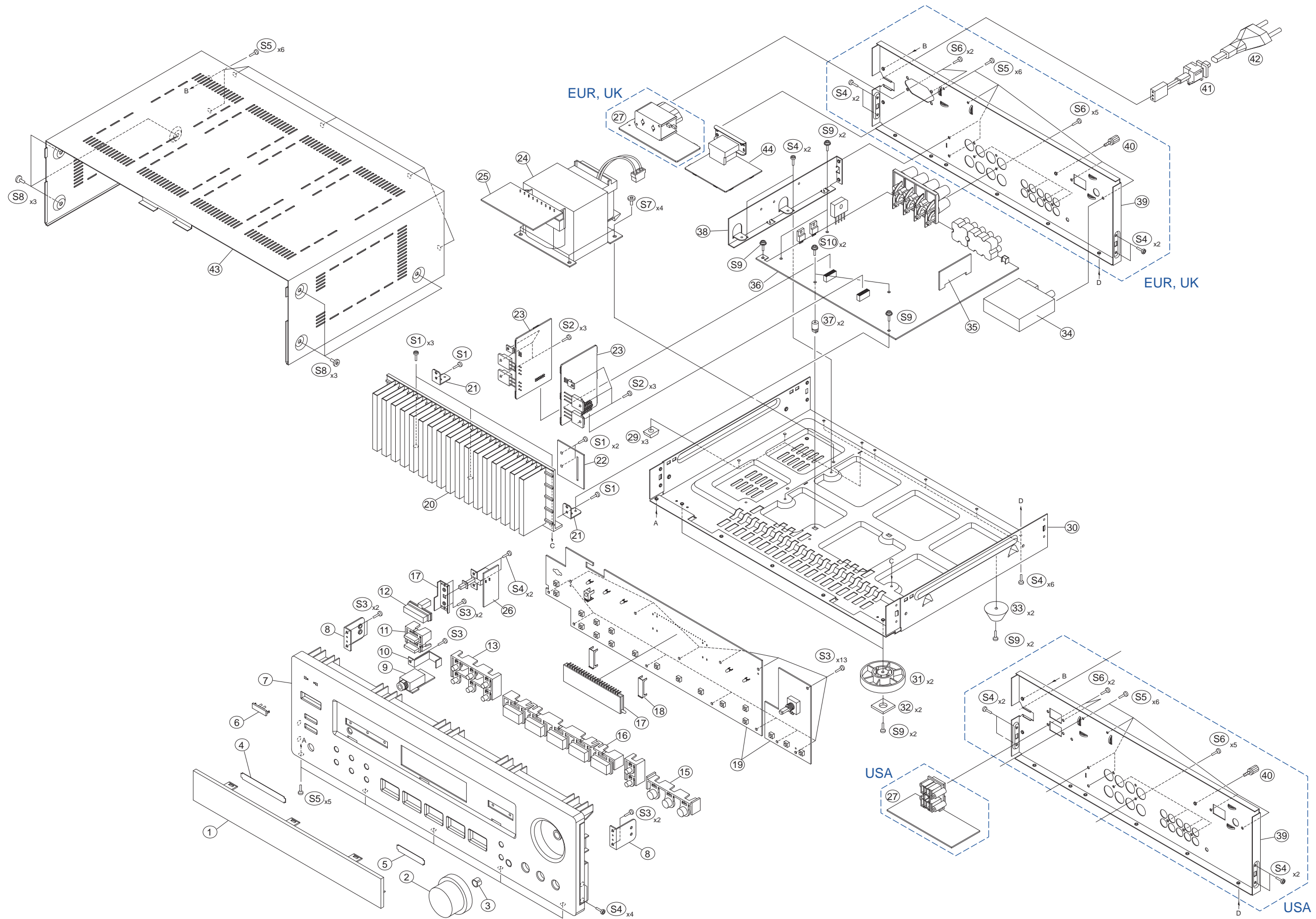
Note: The TEST pin of the T5CB5 does not have a pull-down resistor. Fix the TEST pin at low-level.

Input/Output Ports








Pin No.	Port	I/O	Input/Output Circuitry	Remarks
11	P1	I/O	Initial "High-Z" 	Tri-state I/O Hysteresis input $R = 100\text{ }\Omega$ (typ.)
13	P3	I/O	Initial "High-Z" 	Sink open drain output High current output $R = 100\text{ }\Omega$ (typ.)
12	P2	I/O	Initial "High-Z" 	Sink open drain output Hysteresis input $R = 100\text{ }\Omega$ (typ.)

15	P5	I/O	<p>Initial "High-Z"</p> <p>Data output Output latch input Pin input</p>	<p>Sink open drain output High current output Histerisis input R = 100 Ω (typ.)</p>
10	P0	I/O	<p>Initial "High-Z"</p> <p>P-ch control Data output Output latch input Disable Pin input (Control input)</p>	<p>Sink open drain output or C-MOS output Histerisis input R = 100 Ω (typ.)</p>
14	P4	I/O		
27	P67	I/O	<p>Initial "High-Z"</p> <p>Analog input Data output Output latch input Disable Pin input Key-on wakeup</p>	<p>Tri-state I/O R = 100 Ω (typ.)</p>
26	P66	I/O		
25	P65	I/O		
24	P64	I/O		
23	P63	I/O		
22	P62	I/O	<p>Initial "High-Z"</p> <p>Analog input Data output Output latch input Disable Pin input</p>	<p>Tri-state I/O R = 100 Ω (typ.)</p>
21	P61	I/O		
26	P60	I/O		
17	P7	I/O		

3. EXPLODED VIEWS AND PARTS LISTS

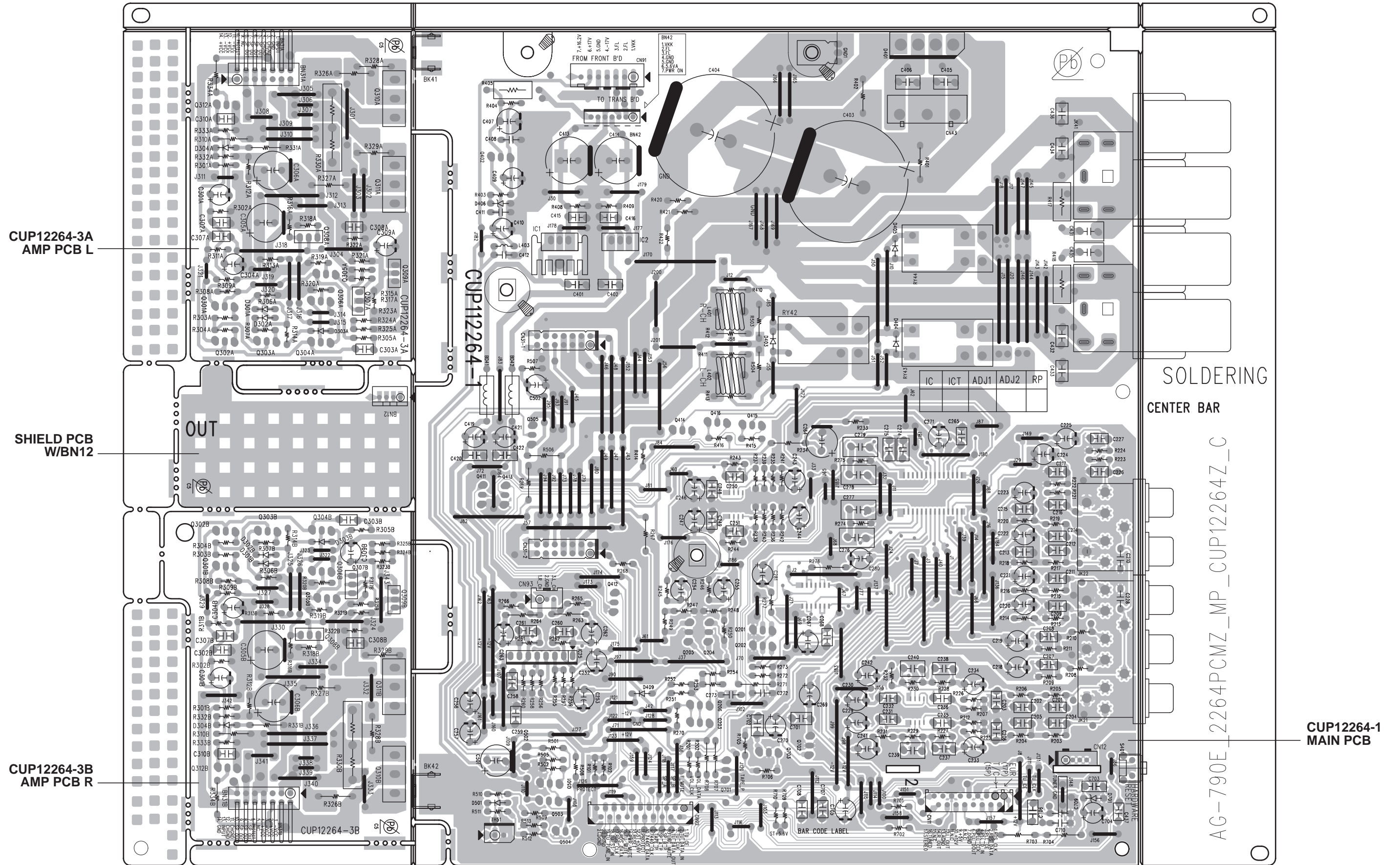


EXPLODED VIEW

REF. NO.	PARTS NO.	DESCRIPTION	REMARKS
1	CGU1A375Y	WINDOW AG-790	
2	CBN1A122	KNOB, VOLUME	
3	CMC1A140	RING, SHAFT	
4	CGX1A369Z	SHEET, LED	
5	CGX1A370Z	SHEET, LED	
6	CGB1A165H8	BADGE, TEAC	
7	CGW1A405R4WH10	PANEL, FRONT AG-790 [EUR], [UK]	
	CGW1A405R4XH10	PANEL, FRONT AG-790 [USA]	
8	CMD2A563	BRACKET	
9		H/P PCB ASSY	United on FRONT PCBA, see page 11
10	CMK2A010	BRACKET, PCB	
11	CBT1A991	KNOB, SPEAKER	
12	CBC1A152	KNOB, POWER	
13	CBT1A992	KNOB, TUNING	
14	CMD1A334	BRACKET, POWER	
15	CBT1A994	KNOB, BASS	
16	CBT1A993Y	KNOB, FUNCTION AG-790	
17	HFLSVA09MS10	F.I.P, SVA09MS10	
18	CMD1A374	BRACKET, FIP	
19	COP12263B	FRONT PCB ASSY AG-790MK2 [EUR], [UK]	
	COP12263D	FRONT PCB ASSY AG-790MK2 [USA]	
20	CMY1A347	HEATSINK	
21	CMD1A387	BRACKET, PCB	
22		PCB, FFC SUPPORT	United on FRONT PCBA, see page 11
23		AMP PCB ASSY, L/R	United on MAIN PCBA, see page 8
24	 CLT5U038ZE	TRANS, POWER AG-790MK2 [EUR], [UK]	
	 CLT5U038ZU	TRANS, POWER AG-790MK2 [USA]	
25		POWER SECONDARY PCB ASSY	United on FRONT PCBA, see page 11
26		POWER SW PCB ASSY	United on FRONT PCBA, see page 11
27		POWER PRIMARY PCB ASSY	United on FRONT PCBA, see page 11
28	Not in use		
29	CHG1A113	RUBBER	
30	CUA2A168	CHASSIS, BOTTOM	
31	CKL2A042H11	FOOT, FRONT	
32	CHG1A360	CUSHION, FOOT	
33	CKL1A012	FOOT, RUBBER BLACK	
34	CNVMB114MA18L	TUNER MODULE [EUR], [UK]	
	CNVMB014MA0J8LS	TUNER MODULE [USA]	
35		SHIELD PCB W/BN12	United on MAIN PCBA, see page 8
36	COP12264B	MAIN PCB ASSY AG-790MK2 [EUR], [UK]	
	COP12264D	MAIN PCB ASSY AG-790MK2 [USA]	
37	CHE1A023	MOUNT, PCB	
38	CMD1A392	BRACKET, PCB	
39	CKF8A172Z	PANEL, REAR [EUR], [UK]	
	CKF9A172Z	PANEL, REAR [USA]	
40	KMA2A001	TERMINAL, GROUND	
41	KHR1A028	BUSHING, AC CORD	
42	 CJA2B043ZA	CORD, POWER [EUR], [UK]	
	 CJA523FBYA	CORD, POWER [USA]	
43	CKC1A098B25	CABINET, TOP AG-790	
44		SUB TRANS PCB ASSY	United on FRONT PCBA, see page 11
S1	CTW3+8JR	SCREW	
S2	CHD1A012R	SCREW, SPECIAL	
S3	CTB3+10JR	SCREW	
S4	CTB3+6JR	SCREW	
S5	CTB3+8JFZR	SCREW	
S6	CTB3+10JFZR	SCREW	
S7	CTB4+8FR	SCREW	
S8	CTB4+6FFZR	SCREW	
S9	CTW3+8J	SCREW	
S10	CTW3+16G	SCREW	

4. PC BOARDS AND PARTS LISTS

MAIN PCB



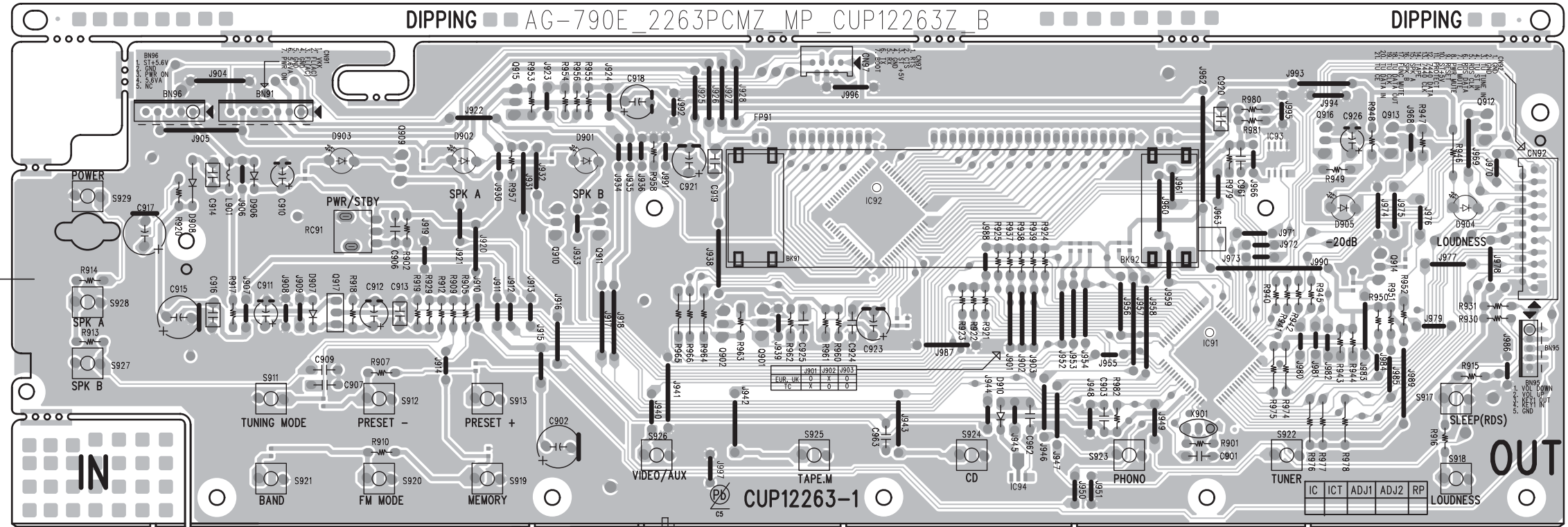
MAIN PCB-A ASSY

REF. NO.	PARTS NO.	DESCRIPTION	REMARKS
	COP12264B COP12264D └CUP12264Z	MAIN PCB ASSY AG-790MK2 [EUR], [UK] MAIN PCB ASSY AG-790MK2 [USA] PCB, MAIN AG-790MK2 (330x247 FR1/1)	
BK41,42	CUP12264-1	MAIN PCB	
BN42	CMD1A387	BRACKET, PCB	
C264	CWB1C00710047	WIRE ASSY, 7 P 100 MM BLACK (RED)	
C403,404	CCEA1EH331T CCET80VKL5682NK	CAP, ELECT 330 UF/25V CAP, ELECT 6800 UF/80 V	
C407,409,410,704 C705	CCEA1EH101T	CAP, ELECT 100 UF/25V	
C413,414	CCEA1EH222E	CAP, ELECT 2200 UF/25 V	
CN11	CJP17GA115ZY CJP15GA115ZY	WAFER, CARD CABLE [EUR], [UK] WAFER, CARD CABLE [USA]	
CN12	CJP04GA98ZM	WAFER	
CN31-1,31-2	CJP14GA221ZB	FEMALE HEADER, 14P 2.54 MM STRAIGHT	
CN43	CJP03GA89ZY	WAFER	
CN91	CJP07GI237ZW	WAFER, LOCKING TYPE STRAIGHT 2.5 MM	
CN92	CJP21GA115ZY	WAFER, CARD CABLE	
CN93	CJP03GI236ZW	WAFER, LOCKING TYPE, STRAIGHT 2 MM	
D401	HVDKBU804F	DIODE, BRIDGE KBU804F	
D403~405,409,501	CVD1SS133MT	DIODE, 1SS133	
D406	HVDMTZJ6.2BT	DIODE, ZENER MTZJ6.2B 1/2 W	
D701	HVDMTZJ5.1BT	DIODE, ZENER MTZJ5.1B 1/2 W	
GND1	HJT1A025	PALTE, EARTH	
IC1	CVIKIA7812APIJA └HVIKIA7812API CMY2A223 CTB3+8JR	I.C HEAT SINK ASSY (CMY2A223) I.C, REGULATOR KIA7812API HEATSINK SCREW	
IC2	HVIKIA7912PI	I.C, REGULATOR KIA79XXPI	
IC21,22	HVINJM2068MDTE1	I.C, OP AMP NJM2068MD-TE1	
IC23	CVITDA7440D	I.C, VOLUME TDA7440D SO-28P	
IC24	HVICD4066BM96	I.C, SWITCH CD4066BM96	
IC25	HVINJM4556AL	I.C, H/P NJM4556AL	
JK21	CJJ4R019W	TERMINAL, IN/OUT	
JK22	CJJ4P014W	JACK, IN/OUT	
JK41	CJJ5Q006Z	TERMINAL, SPEAKER	
L401,402	CLEY0R5KAK	COIL, SPEAKER 0.5UH	
L403	HLQ02C100KT	COIL, AXAIL (10UH)	
Q201,202,414,415 Q416	HVTKRC107MT	T.R, KRC107M	
Q203,206,411~413 Q503	HVTKRA107MT	T.R, KRA107M	
Q205,501,502,702 Q703	HVTKTC2874BT	T.R, MUTE KTC2874B	
Q402	CVTKTC1027YT	T.R, KTC1027Y	
Q504	HVTKTC3198YT	T.R, KTC3198Y	
Q505	HVTKTA1268GRT	T.R, KTA1268GR	
Q701	HVTKTA1267YT	T.R, KTA1267Y	
R405,417,418 RY42~44	CRG1ANJ680H CSL3A018ZE	RES, METAL OXIDE FILM 68 OHM 1W J RELAY G5PA-28-MC , DC12V	
S401	CST1A010Z	SW, TACT	
TH51	CRTMM8003	POSISTOR ASSY	

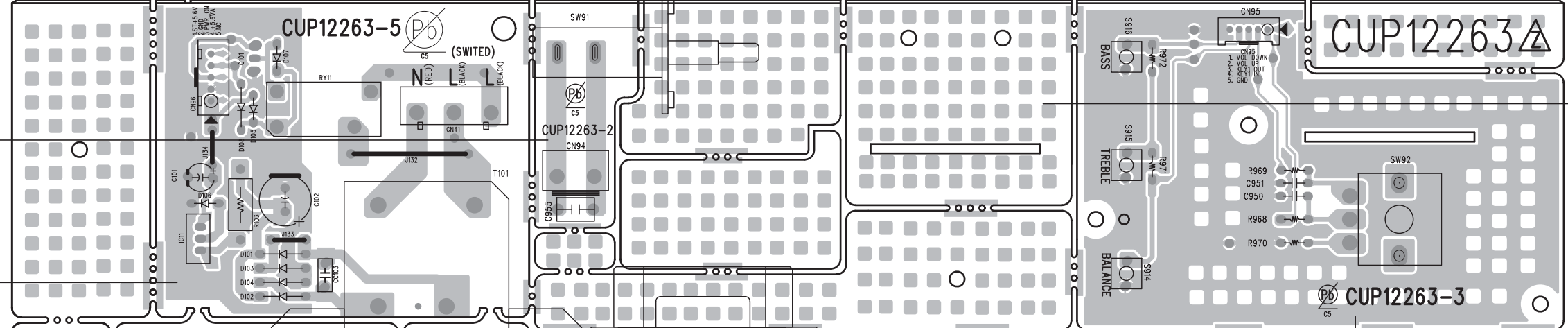
MAIN PCB-A ASSY

REF. NO.	PARTS NO.	DESCRIPTION	REMARKS
BN31A	CUP12264-3A	AMP PCB L	
C305A,306A	CJP14GB142ZB	PIN HEADER (14PIN, 2.54 MM, ANGLE)	
D301A~304A	CCEA2AH101E	CAP, ELECT 100 UF/100 V	
Q301A~303A,312A	CVD1SS133MT	DIODE, 1SS133	
	HVTKTC3200GRT	T.R, KTC3200GR	
Q304A,305A	HVTKTA1024YT	T.R, KTA1024Y	
Q306A	HVTKTC3206YAT	T.R, KTC3206YA	
Q307A	HVTKTA1360Y	T.R, PRE DRIVE KTA1360Y	
Q308A	HVTKTC3423Y	T.R, PRE DRIVE KTC3423Y	
Q309A	HVTKTC3114A	T.R, BIAS KTC3114A	
Q310A	HVT2SD2560	T.R, POWER 2SD2560	
Q311A	HVT2SB1647	T.R, POWER 2SB1647	
R330A	CRF5EKR27HX2K	RES, CEMENT 0.27 OHM	
BN31B	CUP12264-3B	AMP PCB R	
C305B,306B	CJP14GB142ZB	PIN HEADER (14PIN, 2.54 MM, ANGLE)	
D301B~304B	CCEA2AH101E	CAP, ELECT 100 UF/100 V	
Q301B~303B,312B	CVD1SS133MT	DIODE, 1SS133	
	HVTKTC3200GRT	T.R, KTC3200GR	
Q304B,305B	HVTKTA1024YT	T.R, KTA1024Y	
Q306B	HVTKTC3206YAT	T.R, KTC3206YA	
Q307B	HVTKTA1360Y	T.R, PRE DRIVE KTA1360Y	
Q308B	HVTKTC3423Y	T.R, PRE DRIVE KTC3423Y	
Q309B	HVTKTC3114A	T.R, BIAS KTC3114A	
Q310B	HVT2SD2560	T.R, POWER 2SD2560	
Q311B	HVT2SB1647	T.R, POWER 2SB1647	
R330B	CRF5EKR27HX2K	RES, CEMENT 0.27 OHM	
BN12	CJP04GB99ZM	SHIELD W/BN12 PCB	
	CMY1A347A	WAFER	
	LCHD1A012R	HEATSINK ASSY	
	CMY1A347	SCREW, SPECIAL	
	CTB3+8JR	HEATSINK	
	CTW3+8JR	SCREW	

FRONT PCB



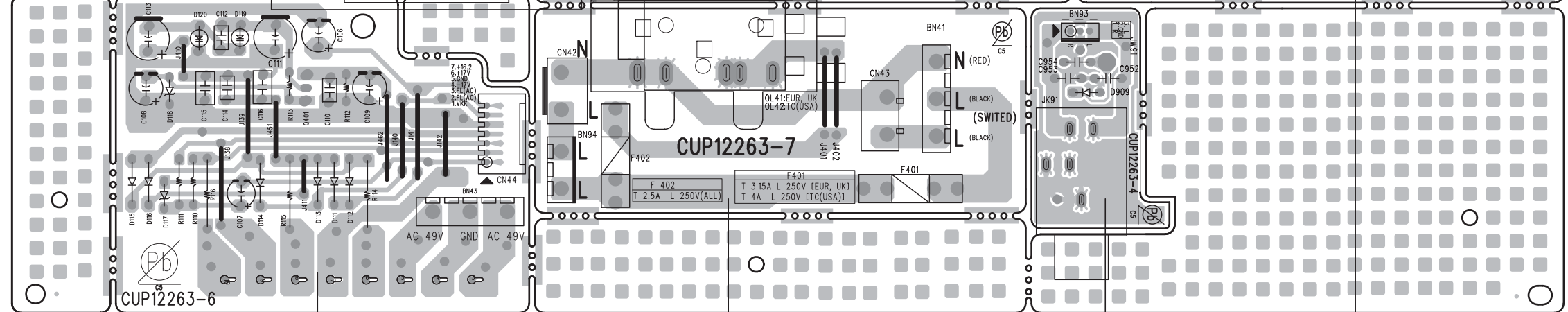
CUP12263-1 FRONT PCB



CUP12263-2 POWER SW PCB

FFC SUPPORT PCB

CUP12263-5 SUB TRANS PCB



CUP12263-6 POWER SECONDARY PCB

CUP12263-7 POWER PRIMARY PCB

CUP12263-4 H/P PCB

CUP12263-3 VOLUME ENCODER PCB

FRONT PCB ASSY

REF. NO.	PARTS NO.	DESCRIPTION	REMARKS
	COP12263B COP12263D └CUP12263Z	FRONT PCB ASSY AG-790MK2 [EUR], [UK] FRONT PCB ASSY AG-790MK2 [USA] PCB, FRONT AG-790MK2 (330x247 FR1/1)	
BK91,92 BN91 BN95 BN96	CUP12263-1 CMD1A374 CWB1B00725058 CWB1B00505047 CWB1B00535058	FRONT VFD & MCU PCB BRACKET, FLT WIRE ASSY, LOCKING TYPE WIRE ASSY, 5 P LOCKING TYPE 50 MM WIRE ASSY, 9 P STRAIGHT 350 MM	
C902,915,917,923 CN92 CN97 D901~905 D906,907,910	CCEA0JH102T CJP21GB116ZY CJP07GB113ZY HVD342VCTB7T089 CVD1SS133MT	CAP, ELECT 1000 UF/6.3 V WAFER WAFER, CARD CABLE L.E.D, RED SLR342VCTB7T089 DIODE, 1SS133	
D908 FP91 IC91 IC92	HVD1N5819T HFLSVA09MS10 CVIANAM1505AT └CVIT5CB5PQ HVILC75725E	DIODE, SCHOTTKY 1N5819 F.I.P, SVA09MS10 I.C, U-COM ASSY AG-790MK2 (T5CB5PQ) I.C, MCU (FLASH 61440 bytes PQFP64) I.C, VFL DRIVER LC75725E	
IC93 IC94 L901 Q901,902,915 Q909,910,911,914 Q916	CVIAT24C04BNSHB CVIML61C452PR HLQ02C100KT HVTKRC102MT HVTKRC107MT	I.C, EEPROM AT24C04BNSHB 4K I.C, RESET ML61C452PR 4.5V COIL, AXAIL (10UH) T.R, KRC102M T.R, KRC107M	
Q912,913 Q917 RC91 S911~913,917~928 X901	HVTKRA107MT CVTKTA1272YT CRVKSM603TH5B CST1A012ZT CVFCSTLS16M0X53A0	T.R, KRA107M T.R, KTA1272Y-AP/P SENSOR, REMOCON SW, TACT SKHV10910G RESONATOR, CERAMIC (16 MZ 15 PF)	
CN94 SW91	CUP12263-2 CJP02KA060ZY KSH1A001ZV	POWER SW PCB WAFER SW, PUSH MOMS	
CN95 S914~916 SW92	CUP12263-3 CJP05GI236ZW CST1A012ZT CSR2A036Z	VOLUME ENCODER PCB WAFER, LOCKING TYPE STRAIGHT 2 MM SW, TACT SKHV10910G ENCODER VR	
BN93 D909 JK91 JW91	CUP12263-4 CWB1B00345047001 CVD1SS133MT CJJ2E020Z CWE7202100RV	H/P PCB WIRE ASSY, 3P LOCKING TYPE 450 MM DIODE, 1SS133 JACK, PHONES WIRE ASSY CR-H130	
C101 C102 CN41 CN96	CUP12263-5 CCEA1CH101T CCEA1EH471E CJP03GA89ZY CJP05GI237ZW	SUB TRANS PCB CAP, ELECT 100 UF/16 V CAP, ELECT 470 UF/25 V WAFER WAFER, LOCKING TYPE, STRAIGHT 2.5 MM	
D101~104 D105~107 D108 IC11 Q101	CVD1N4003ST CVD1SS133MT HVD1N5819T HVIKIA7805API HVTKRC107MT	DIODE, RECT 1N4003 DIODE, 1SS133 DIODE, SCHOTTKY 1N5819 IC, REGULATOR, 7805API +5V T.R, KRC107M	

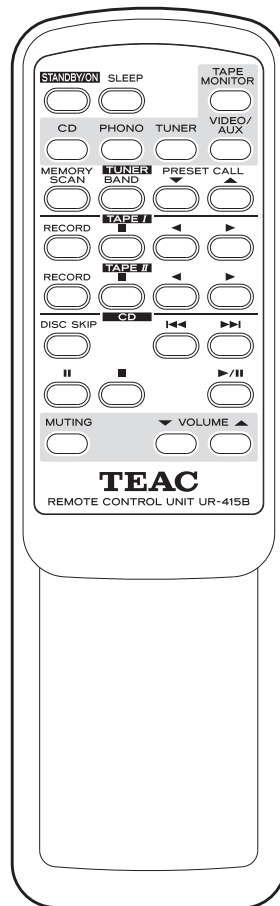
FRONT PCB ASSY

REF. NO.	PARTS NO.	DESCRIPTION	REMARKS
R103	CRG1ANJ100H	RES, METAL OXIDE FILM	
RY11	CSL1E002ZE	RELAY, POWER G5PA-1 (DC 6V)	
T101	CLT5J040ZE	SUB TRANS, VISO FIVE [EUR], [UK]	
	CLT5J040ZU	SUB TRANS AG-790MK2 [USA]	
	CUP12263-6	POWER SECONDARY PCB	
BN43	CWB4D053200UZ	WIRE ASSY, 5P 200 MM 3W BLACK (RED)	
CN44	CJP07GJ247ZW	WAFER, 9 P LOCK ANGLE 2.0 MM	
C111,113	CCEA1HH101T	CAP, ELECT 100 UF/50 V	
D111~116,119,120	CVD1N4003ST	DIODE, RECT 1N4003	
D117	HVDMTZJ6.2BT	DIODE, ZENER MTZJ6.2B 1/2 W	
D118	CVDZJ30BT	DIODE, ZENER ZJ30B 1/2 W	
Q401	HVTKTA1271YT	T.R, KTA1271Y	
R114~116	KRQ1AJR47H	RES, FUSE 0.47 OHM 1W J	
	CUP12263-7	POWER PRIMARY PCB	
BN41	CWB4F053100UZ	WIRE ASSY, 5 P 200 MM 3W BLACK (RED)	
BN94	CWB4D232300VZ	WIRE ASSY, 2 P 300 MM 3.96 MM PITCH	
CN42	CJP02KA060ZY	WAFER	
CN43	CJP02GA89ZY	WAFER	
F401	KJCF5S	HOLDER, FUSE	
	└KBA2C3150TLEZ	FUSE, T 3.15 A L 250 V [EUR], [UK]	
	└KBA2C4000TLEY	FUSE, T 4 A L 250 V [USA]	
F402	KJCF5S	HOLDER, FUSE	
	└KBA2C2500TLEY	FUSE, 2.5A 250 V 218 SERIES	
OL41	CJJ7A021Z	JACK, AC OUTLET 230 V 2 P [EUR], [UK]	
OL42	CJJ7A015Z	JACK, AC OUTLET 120 V 2 P [USA]	

5. INCLUDED ACCESSORIES

REF. NO.	PARTS NO.	DESCRIPTION	REMARKS
	CQX1A1519Z	OWNER'S MANUAL (EFS) [UK], [USA]	
	CQX1A1512Z	OWNER'S MANUAL (EFSGIN) [EUR]	
	CSA1A007	ANT, FM WIRE (PIGTAIL) [EUR], [UK]	
	CSA1A019Z	FM 1 POL ANT (UL) [USA]	
	CSA1A020Z	ANT, AM LOOP	
	CABR6PPB	BATTERY, AA 2 PCS IN PACK	
	CARTAG790B	REMOTE CONTROL UNIT	

REMOTE CONTROL UNIT UR-415B



AG-790E

TEAC

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TEAC

SCHEMATIC DIAGRAMS

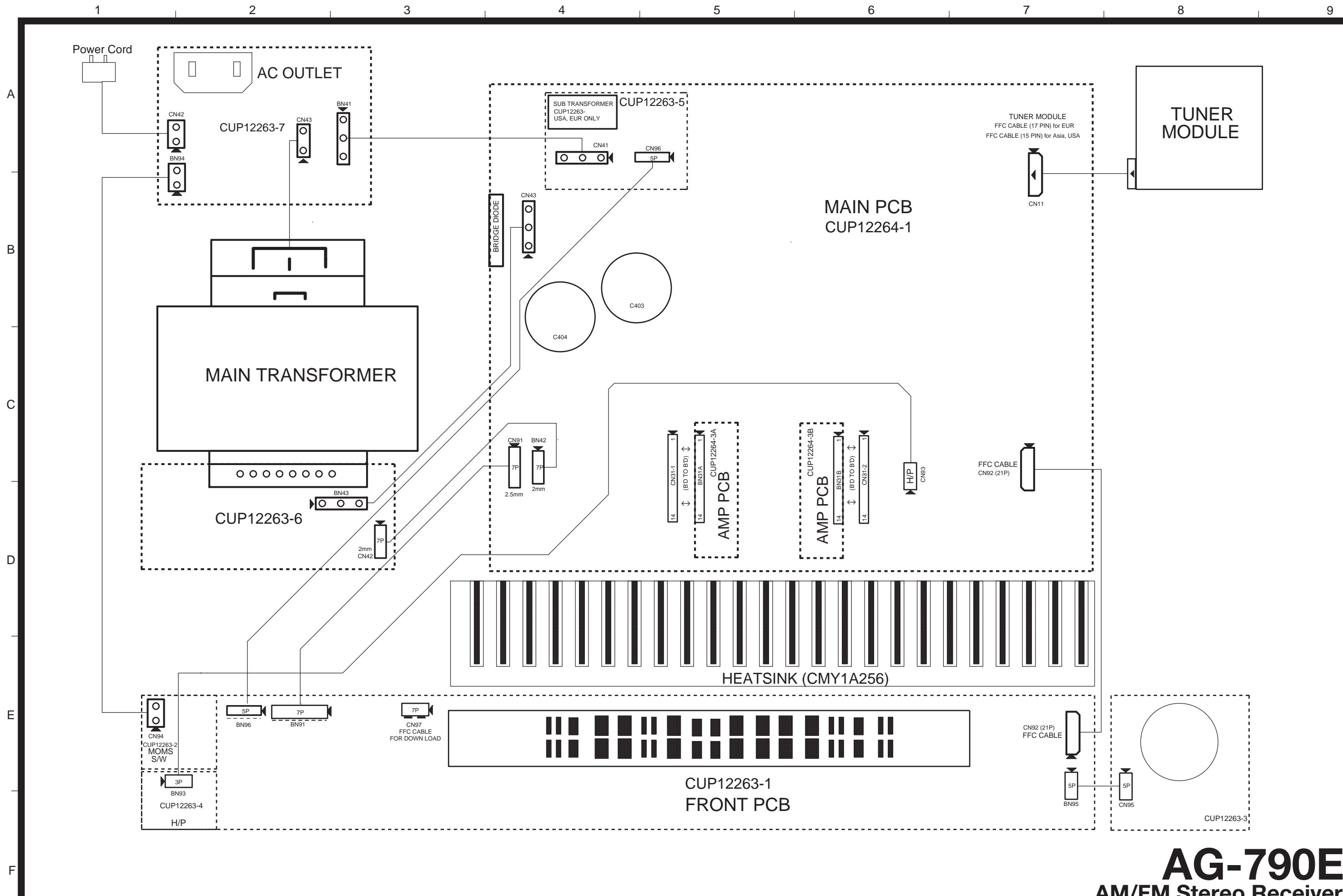
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AG-790E
AM/FM Stereo Receiver

1 st Issue; June 2010

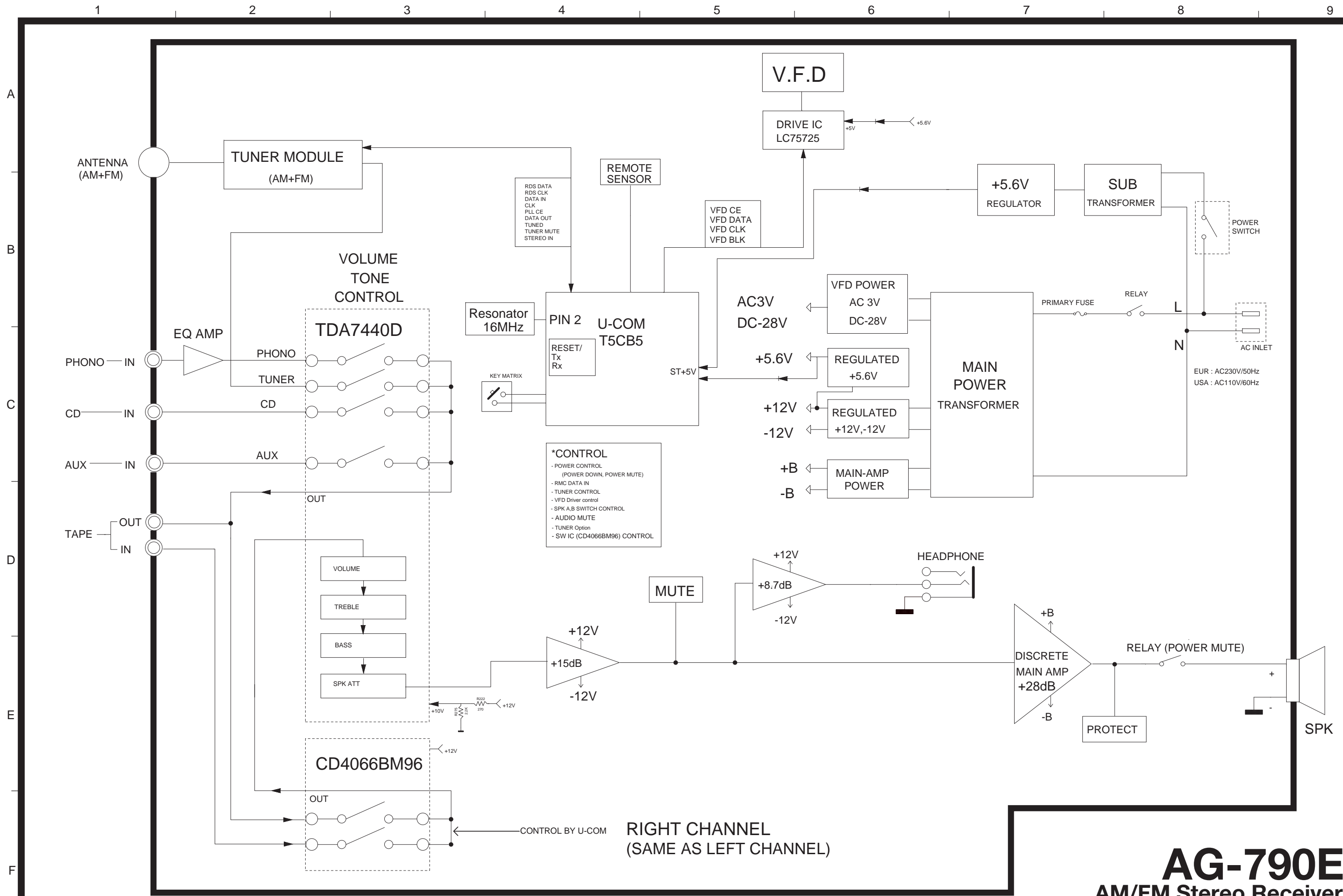
TEAC WIRING DIAGRAM AG-790E



AG-790E

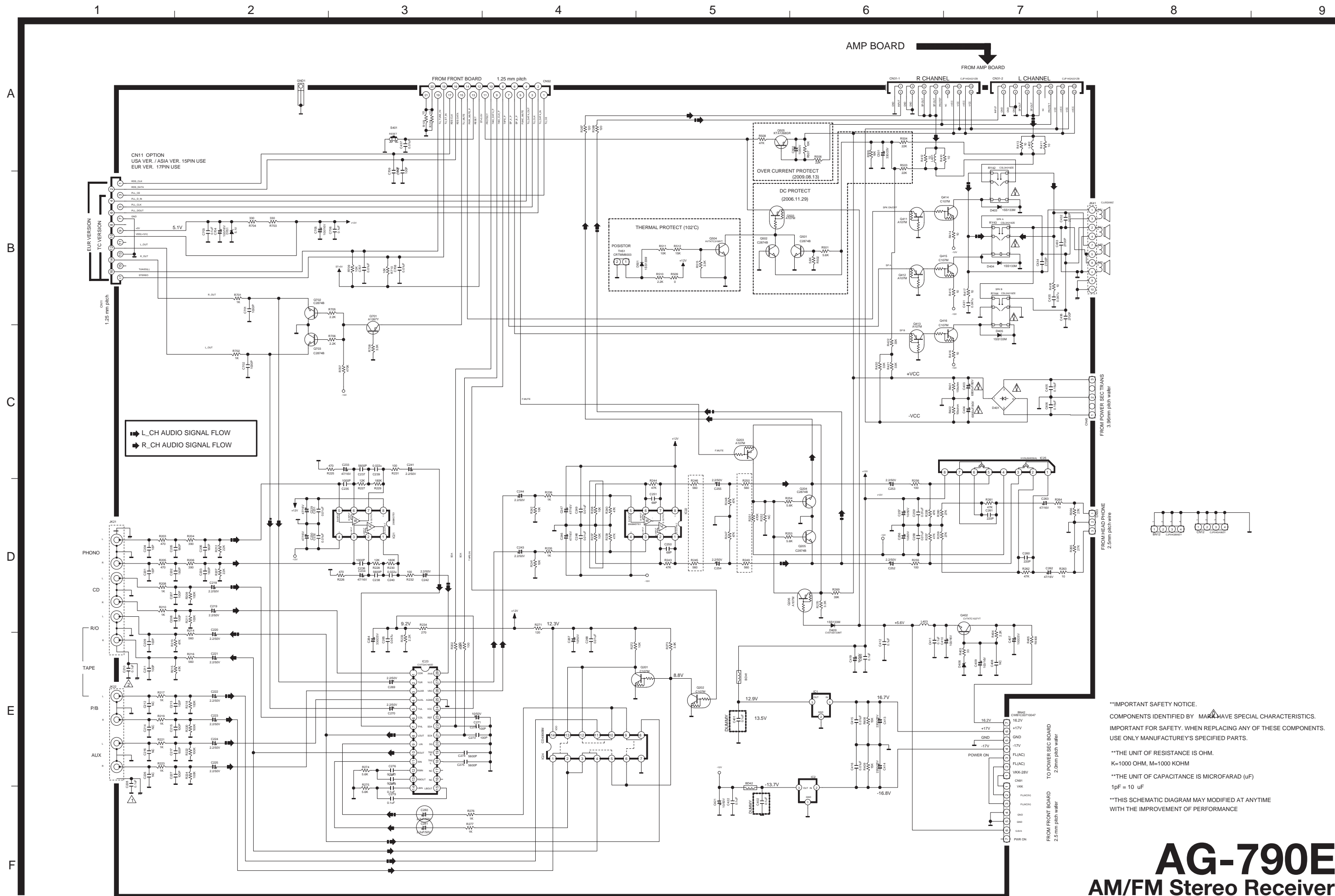
AM/FM Stereo Receiver

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RIGHT CHANNEL
(SAME AS LEFT CHANNEL)

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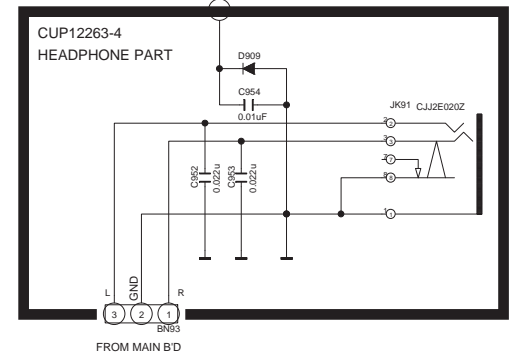
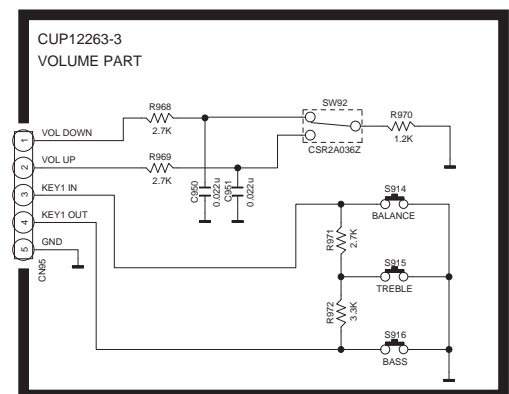
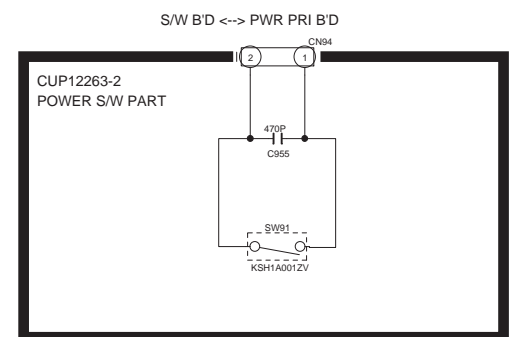
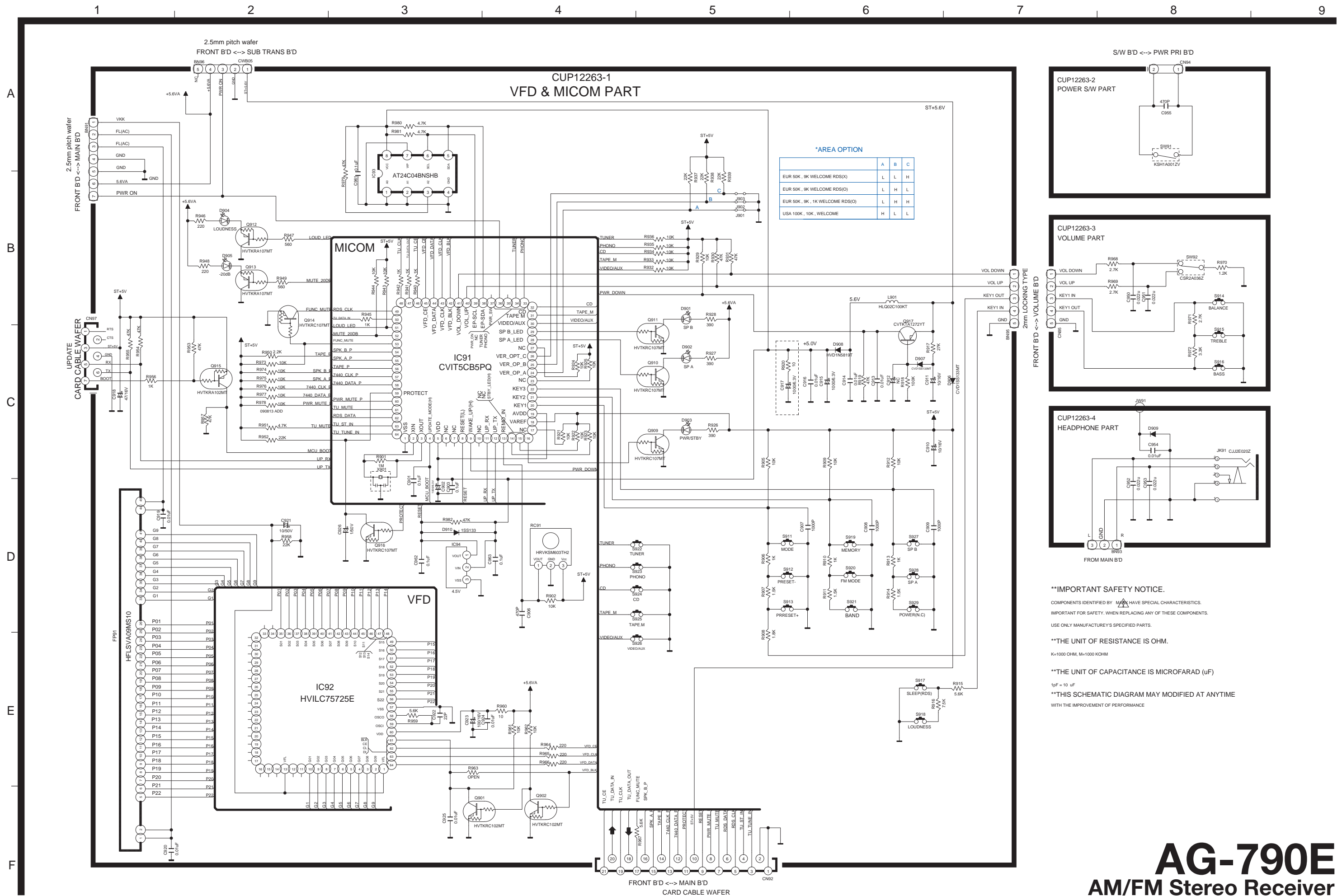


→ L_CH AUDIO SIGNAL FLOW
 → R_CH AUDIO SIGNAL FLOW

****IMPORTANT SAFETY NOTICE.**
 COMPONENTS IDENTIFIED BY MARK HAVE SPECIAL CHARACTERISTICS.
 IMPORTANT FOR SAFETY. WHEN REPLACING ANY OF THESE COMPONENTS,
 USE ONLY MANUFACTURER'S SPECIFIED PARTS.
 **THE UNIT OF RESISTANCE IS OHM.
 K=1000 OHM, M=1000 KOHM
 **THE UNIT OF CAPACITANCE IS MICROFARAD (uF)
 1pF = 10 uF
 **THIS SCHEMATIC DIAGRAM MAY MODIFIED AT ANYTIME
 WITH THE IMPROVEMENT OF PERFORMANCE

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***AREA OPTION**

	A	B	C
EUR 50K, 9K WELCOME RDS(X)	L	L	H
EUR 50K, 9K WELCOME RDS(O)	L	H	L
EUR 50K, 9K, 1K WELCOME RDS(O)	L	H	H
USA 100K, 10K, WELCOME	H	L	L

****IMPORTANT SAFETY NOTICE.**

COMPONENTS IDENTIFIED BY **MAX** HAVE SPECIAL CHARACTERISTICS. IMPORTANT FOR SAFETY, WHEN REPLACING ANY OF THESE COMPONENTS, USE ONLY MANUFACTURER'S SPECIFIED PARTS.

****THE UNIT OF RESISTANCE IS OHM.**

K=1000 OHM, M=1000 KOHM

****THE UNIT OF CAPACITANCE IS MICROFARAD (uF)**

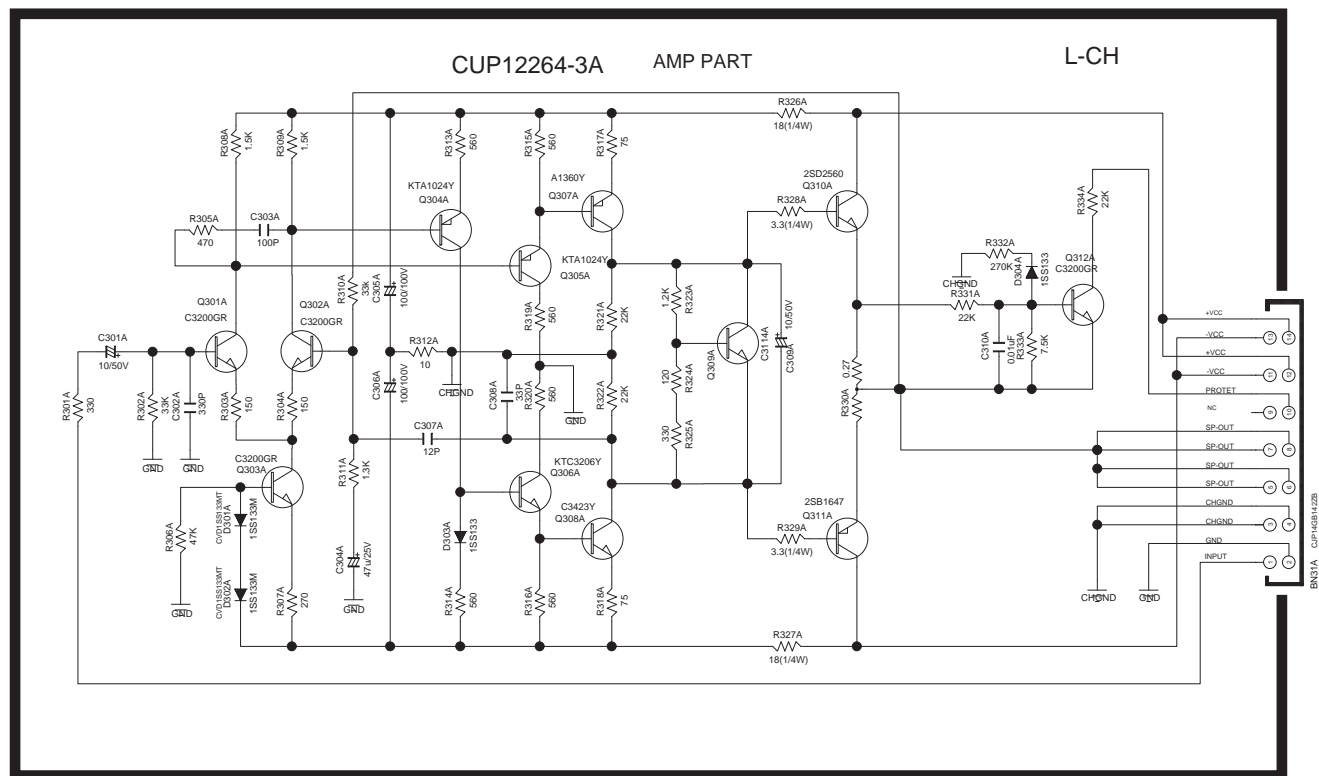
1pF = 10 uF

****THIS SCHEMATIC DIAGRAM MAY MODIFIED AT ANYTIME WITH THE IMPROVEMENT OF PERFORMANCE**

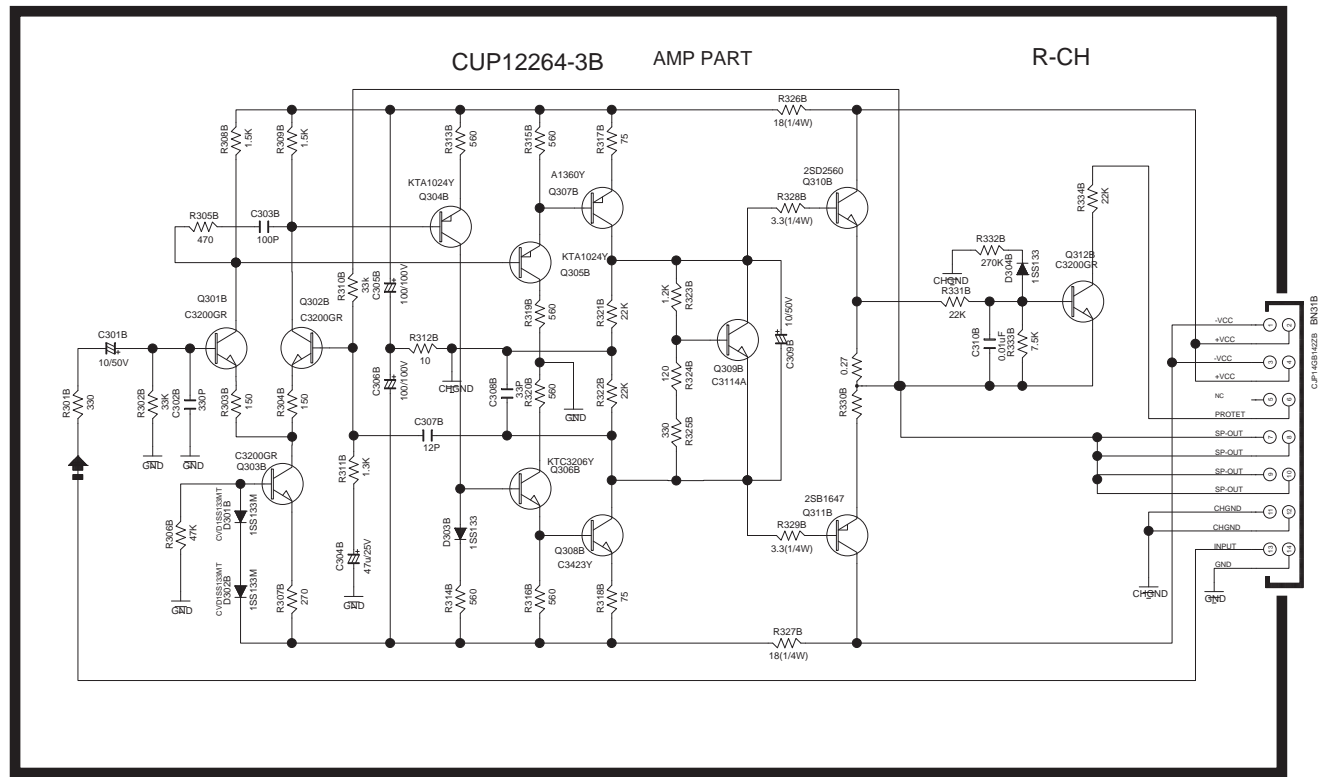
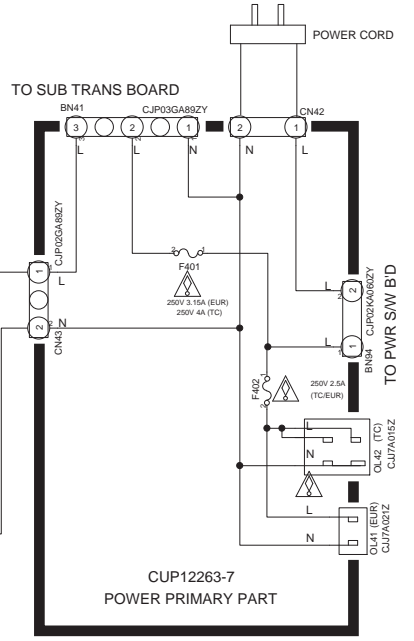
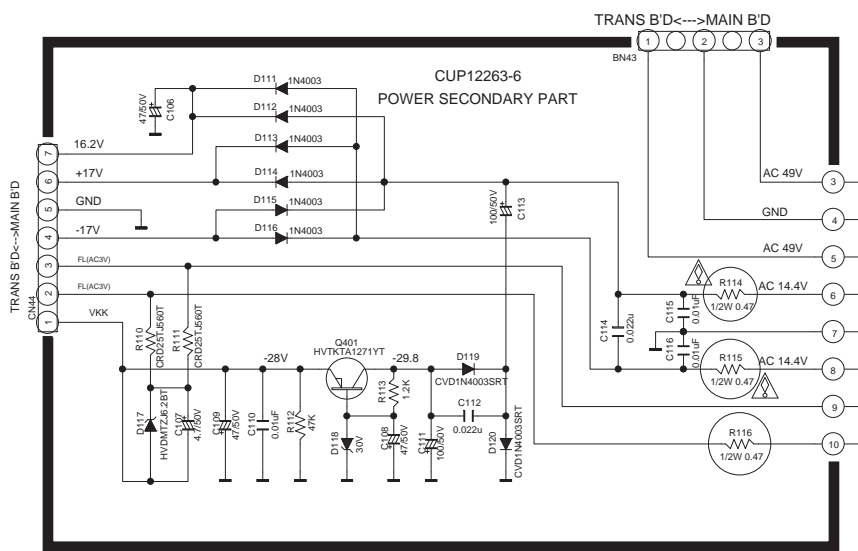
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1 2 3 4 5 6 7 8 9

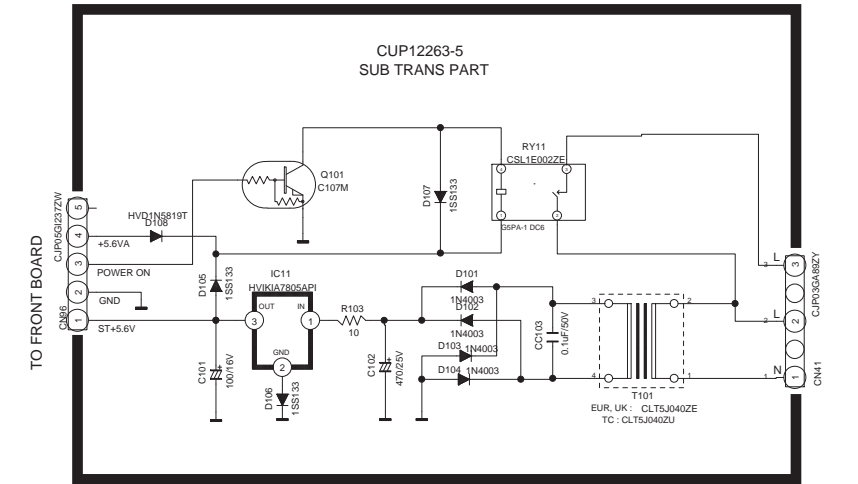
A
B
C
D
E
F



AMP BD<->MAIN BD



AMP BD<->MAIN BD



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 1pF = 10 uF
****THIS SCHEMATIC DIAGRAM MAY MODIFIED AT ANYTIME WITH THE IMPROVEMENT OF PERFORMANCE TO POWER CORD**

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