BeoSound 4

Type 2851, 2852, 2853, 2854, 2855, 2857, 2858, 2859, 2860

Service Manual English

German, French, Italian, Spanish, Danish, Dutch and Japanese versions are available in the Retail System

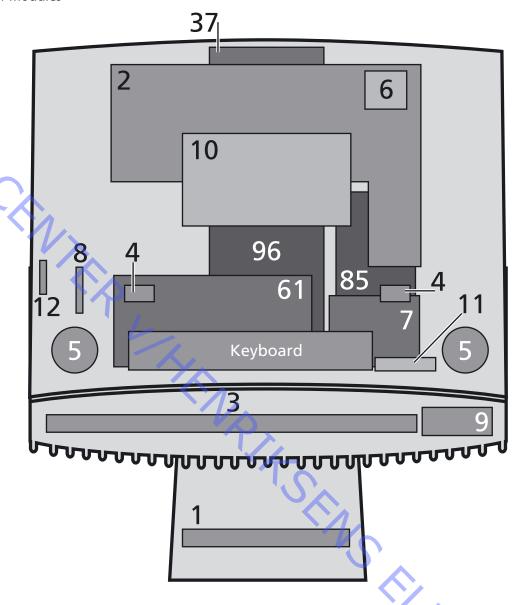


This Service Manual must be returned with the defective parts/back-up suitcase!

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Survey of modules



PCB1	Socket						
PCB2							
PCB3	Magic						
PCB4							
PCB5	•						
PCB6							
PCB7							
PCB8							
PCB9							
PCB10							
	SD/MMC card reader						
PCB12							
37Module							
PCB61							
PCB85							
96Module	CD UNIL						

1.2 How to service BANG & OLUFSEN

How to service

Converting mains supply voltage

The unit has separate type nos. for each market, due to country approvals. The mains voltage is determined by the type nos. of the unit, there are only two internal mains voltage settings (a jumper) on the SMPS, 100/120V and 230/240V AC (P108, when mounted = 100/120V).

Front line service

The BeoSound 4 unit has been developed for simple module exchange to follow the on-site service strategy. Module exchange is possible onsite, in the shop or in the service workshop whatever is most convenient in each case. For on-site service a back-up suitcase must be used. Module exchange is the recommended way to perform service, due to the fact that most of the modules are multi-layer based, and most of the circuits are on a single main PCB. An electrical fault symptom can be removed during one visit to the customer's home, if you bring a BeoSound 4 back-up suitcase with you. Is it a mechanical symptom, the particular part must be brought with you separately.

Service documentation

Service documentation for BeoSound 4 will be a Service manual with part no. for the back-up suitcase, electrical and mechanical parts, user's guides etc.

BANG & OLUFSEN PIN-code 1.3

PIN-code

The product has a 4 digit PIN-code, of the user's own choice, which must be entered if the product has been disconnected from the mains for 15-30 min.

If the PIN-code is activated, and the product has been without mains for 15-30 min., the user will be asked to enter the 4 digit PIN-code when the product is switched on.

Before the product is handed in to service it is a good idea to ask the customer to deactivate the PIN-code.

The PIN-code is activated when the product is shipped from Bang & Olufsen.

Refer to the user guide for further information.

PIN-code active prior to service

If the PIN-code is not deactivated prior to service you must use the Service code to unlock the product.

Service code

The service code

- unlocks the product, but does not affect the pin-code setting
- gives you 12 hours service time

Entering the Service code

- When the product asks for PIN-CODE press and hold

 for 3 seconds.
- 2. The Master code menu appears.
- 3. Enter the Service code: 1 1 1 1 1.

Important notice concerning Service time

The service time is active as long as the product is connected to the mains, including Standby.

To obtain maximum service time:

Only connect the product to the mains while you are performing actual service on the product.

When the service time is expired, the product can only be unlocked by entering the PIN-code or the Master code.

Registration of the modules

The modules will be registered to the product in the following situations:

- the product has been connected to the mains for more than 12 hours, including Standby time.
- the PIN-code is activated or deactivated.

PIN-code deactivated by customer prior to service

With the PIN-code deactivated prior to service you must be aware of the modules will be registered to the product in the following situations:

- the product has been connected to the mains for more than 12 hours, including Standby time.
- the PIN-code is activated or deactivated.

The registration of modules in the product can only be changed at Bang & Olufsen.

1.4 PIN-code BANG & OLUFSEN

Activate the PIN-code

Select the SETUP menu.

Enter the 4 digit Pin-code. Re-enter the code to confirm it and press GO.

If you want to change or delete the PIN-code, enter the correct PIN-code and press ${\sf GO}$.

It is now possible to change the PIN-code or delete the PIN-code.

Enter the PIN-code

If the PIN-code is activated and the product is disconnected from the mains for more than 15-30 minutes, a PINCODE menu appears as soon as the product is switched on.

Enter the PIN-code, and the product starts again.

If the PIN-code has been forgotten

If the PIN-code has been forgotten the only way to unlock the product again is by entering a 5 digit Master-code.

The Master-code is ordered by sending a request via the Retail System.

When the product prompts for a PIN-code, press and hold ◀ down to bring up the MASTERCODE menu.

Enter the Master-code and press **GO**. This will deactivate the PIN-code and reactivate the product.

Product locked by PIN-code

The product is locked by PIN-code when:

The PIN-code is activated and the mains is disconnected for more than 15- 30 minutes.

The product is unlocked when the PIN-code is entered.

The PIN-code counter is set to 5 attempts within 3 hours.

When a wrong PIN-code has been entered 5 times within 3 hours, the product cannot receive any commands for a period of 3 hours.

After this period the PIN-code counter is reset.

The product must be in standby mode to activate the timer.

BANG & OLUFSEN Warnings 1.5

Warnings

ESD

When electrical replacements or disassembly all taking place, use an ESD-mat. The internal electronics are very sensitive to static electricity.

When mains voltage on BeoSound 4 is required, remove the connection from BeoSound 4 to the ESD mat.



Laser exposure

BeoSound 4 contains a laser system and is classified as a class 1 laser product. BeoSound 4 must be opened by qualified personal only.





General warnings

Wear cotton gloves to avoid fingerprints on the product. The display surface on the product is very sensitive, so handling should be done with great care to avoid damage. When transporting BeoSound 4, it is recommended to use the product cover, part no. 3375490.

Be sure that the plugs in each end are connected correctly.

Cleaning

Clean BeoSound 4 surfaces using DuPont Polishing Cloth, part no. 3624018.

Finally clean the front glass with DuPont Final Tack Cloth. It prevents electrostatic buildup. Never use alcohol or other solvents to clean any parts of BeoSound 4.

Final check after repair

Isolation test

Each set must be insulation tested after having been dismantled. Make the test when the set has been reassembled and is ready to be returned to the customer. Flashovers must not occur during the testing procedure! Make the insulation test as follows: Short-circuit the two pins of the mains plug and connect them to one of the terminals of the insulation tester. Connect the other terminal of the insulation tester to the chassis pin of the aerial socket.

NOTE!

To avoid damaging the set, it is essential that both terminals of the insulation tester have good contact. Slowly turn the voltage control of the insulation tester until a voltage of 2.5 kV and max. 5 mA is obtained. Maintain that voltage for one second, and then slowly turn it down again.

Isolation test at the customer

Remove the mains cable from the wall outlet. Place a jumper across the two AC plug prongs. Use a multi-meter, set for measurements in the ohm-area. Place one lead from the multi-meter on the AC plug and place the other lead on ground at the power link plug. The resistance during this measurement must be of 1 mega ohm or more. Resistance measured below 1 mega ohm indicates an abnormal situation and corrective action must be taken.

Test of the device

After the insulation test, it is important to do the final test of the device, to make sure there are no other faults.

- Turn on BeoSound 4 and load a CD. Play the CD.
- 2. Switch to SD play mode.
- 3. Switch to FM radio and make a tuning.
- 4. Switch to DAB radio and make a tuning.
- 5. Use volume up/down.
- 6. Make sure that both the remote control and the buttons work perfectly.

Before finishing the device, make sure that the option setting is correct.

BANG & OLUFSEN Fault flow chart 2.1

Fault flow chart

Instructions

Instructions before trouble shooting in the fault flow chart:

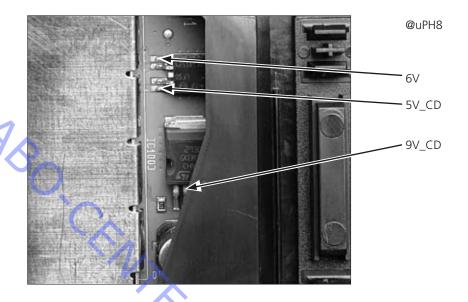


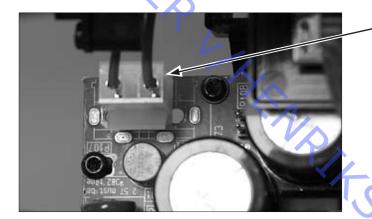
2.2 Fault flow chart BANG & OLUFSEN

Placement of measuring points

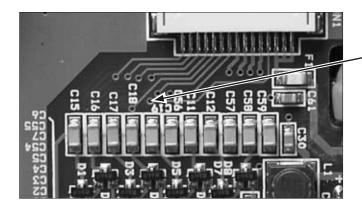


BANG & OLUFSEN Fault flow chart 2.3

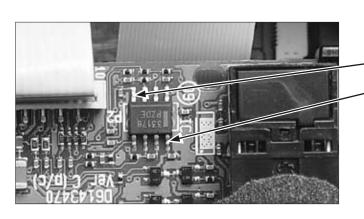




Mains supply P101



@back of display ola,

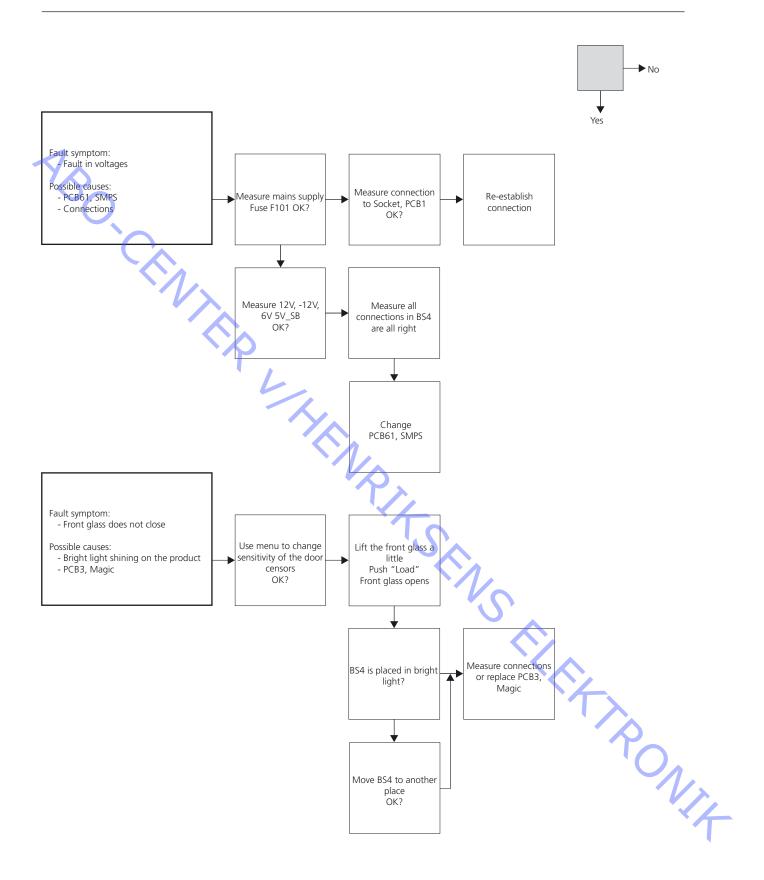


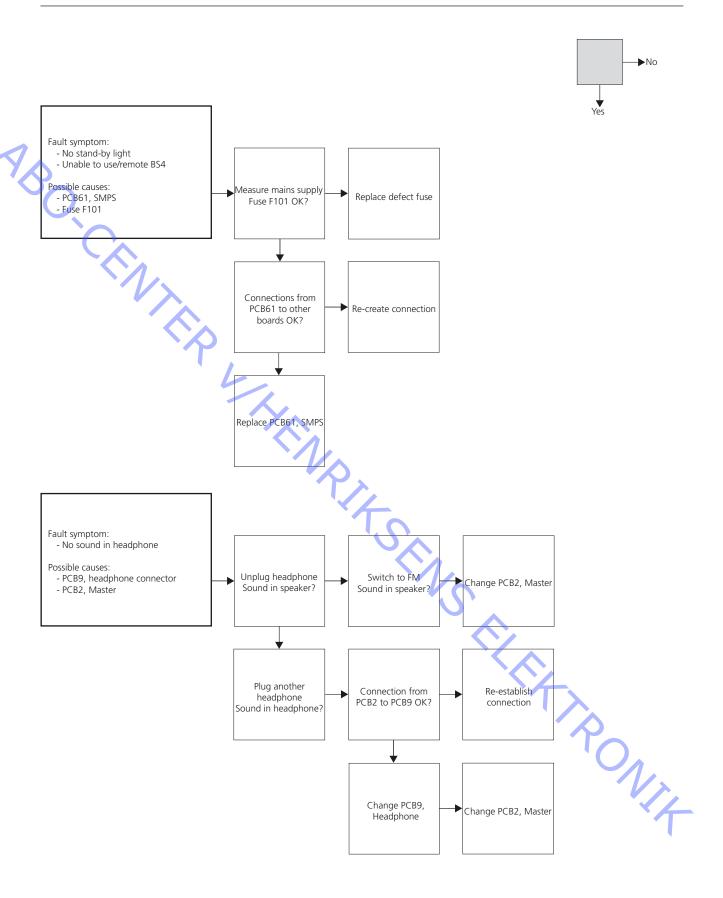
@Headphone jack

- -12V

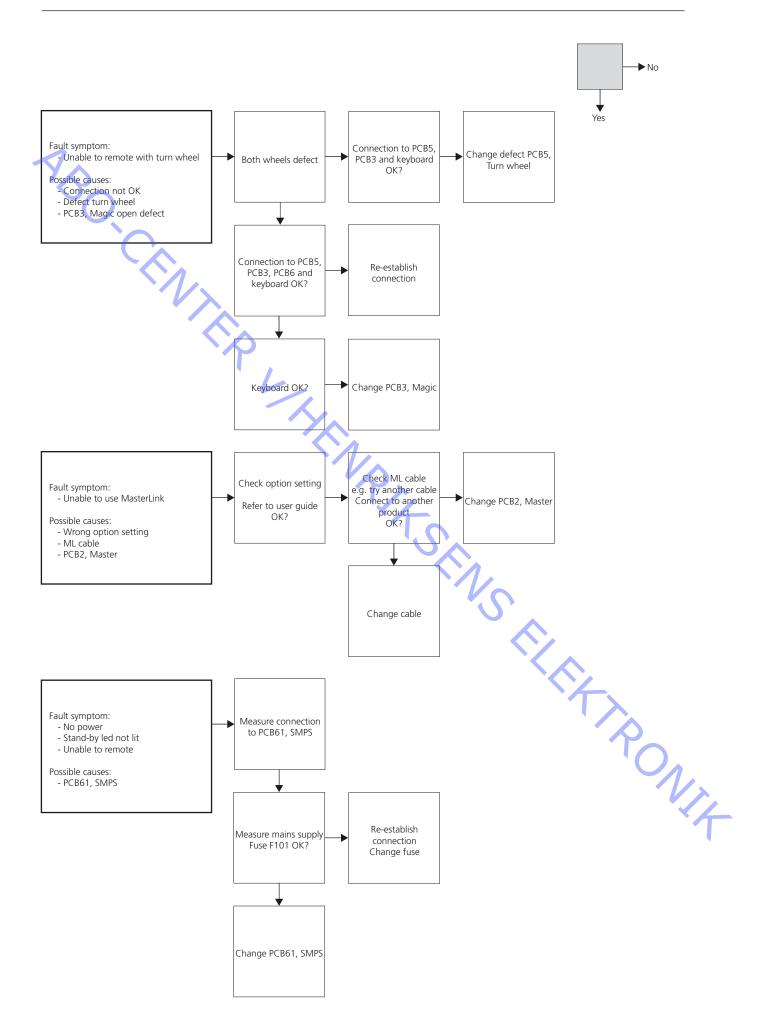
_ +12V

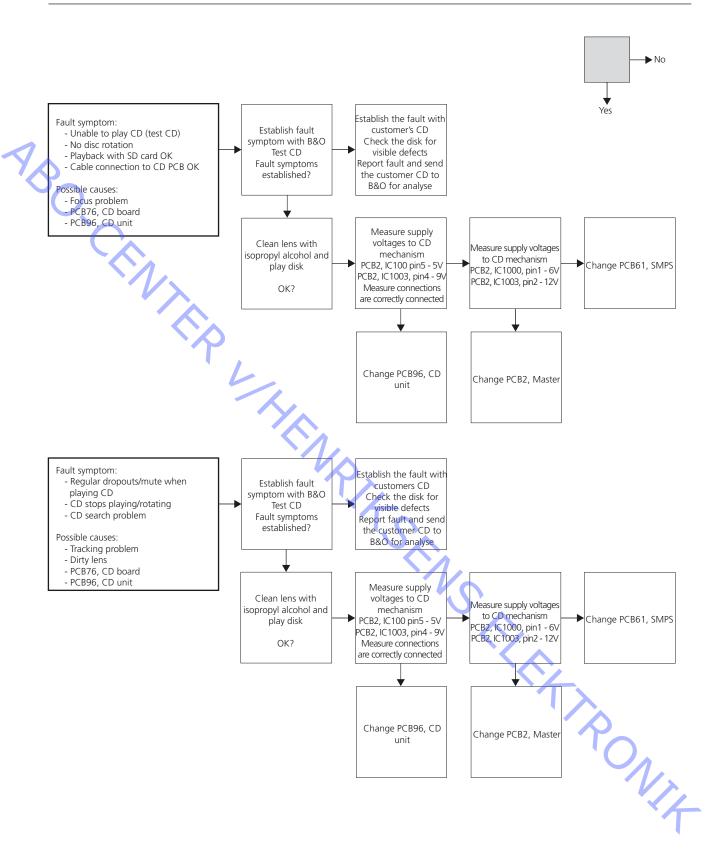
2.4 Fault flow chart BANG & OLUFSEN



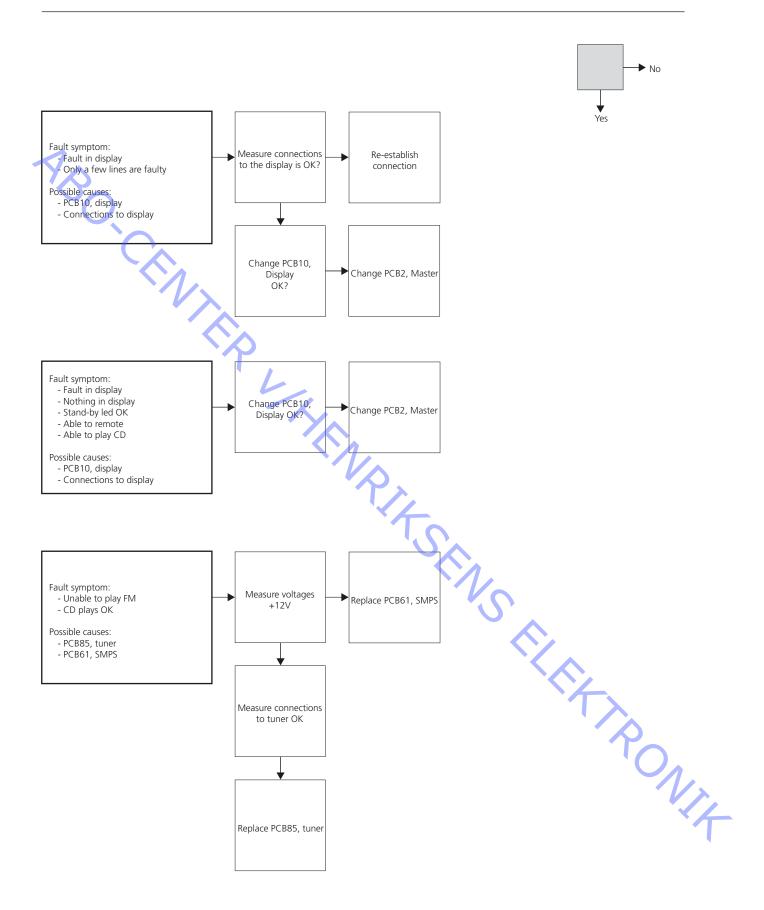


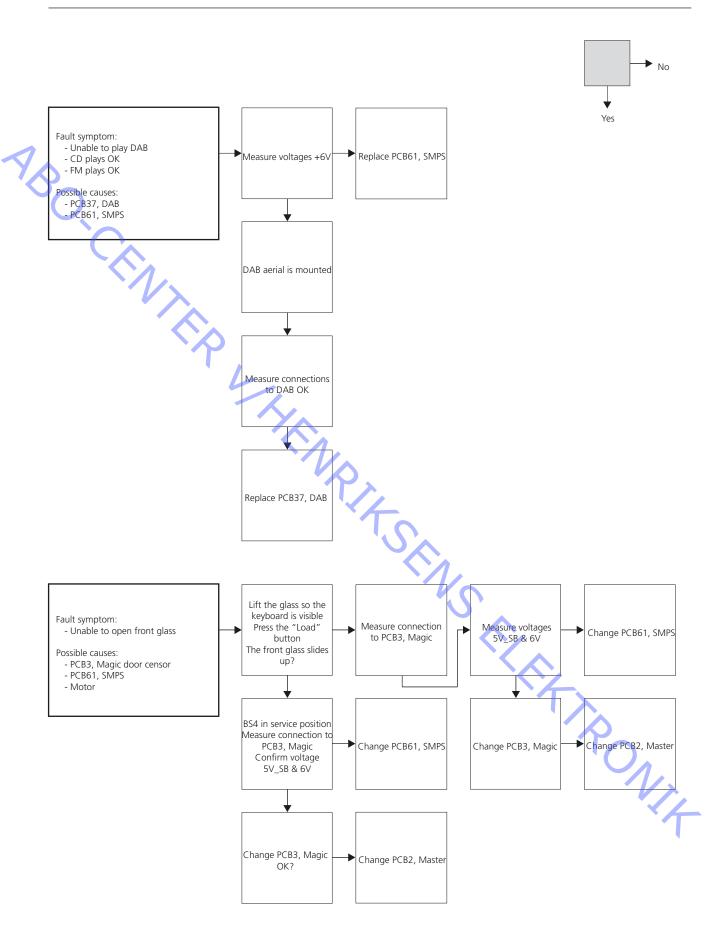
2.6 Fault flow chart BANG & OLUFSEN



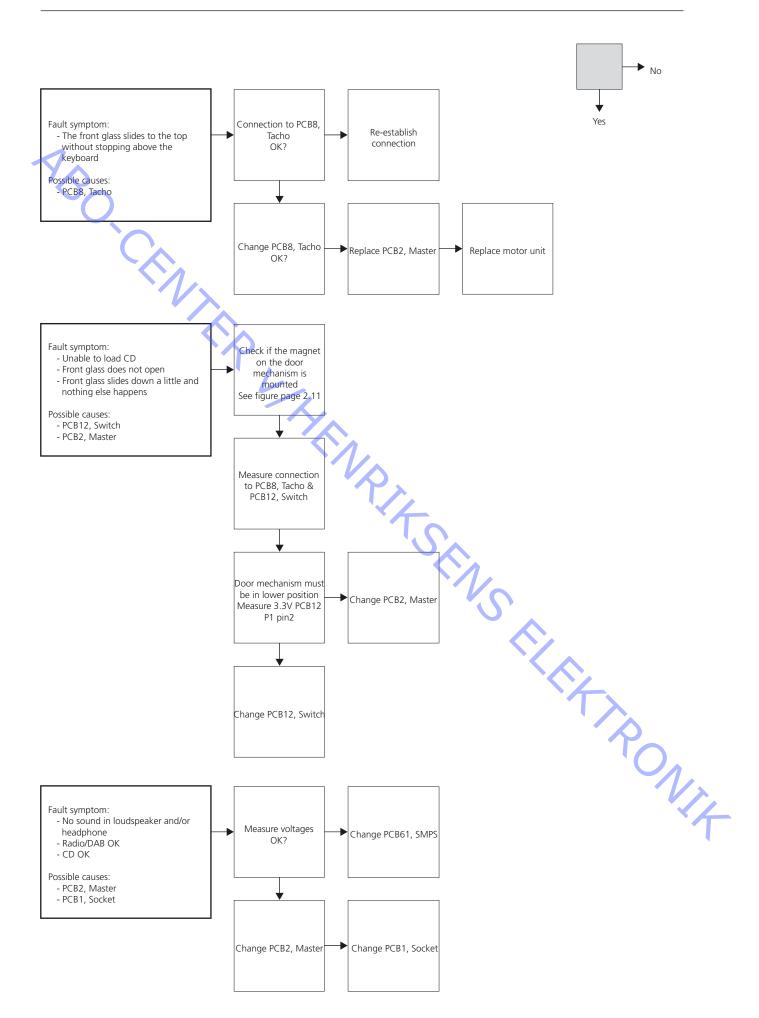


2.8 Fault flow chart BANG & OLUFSEN



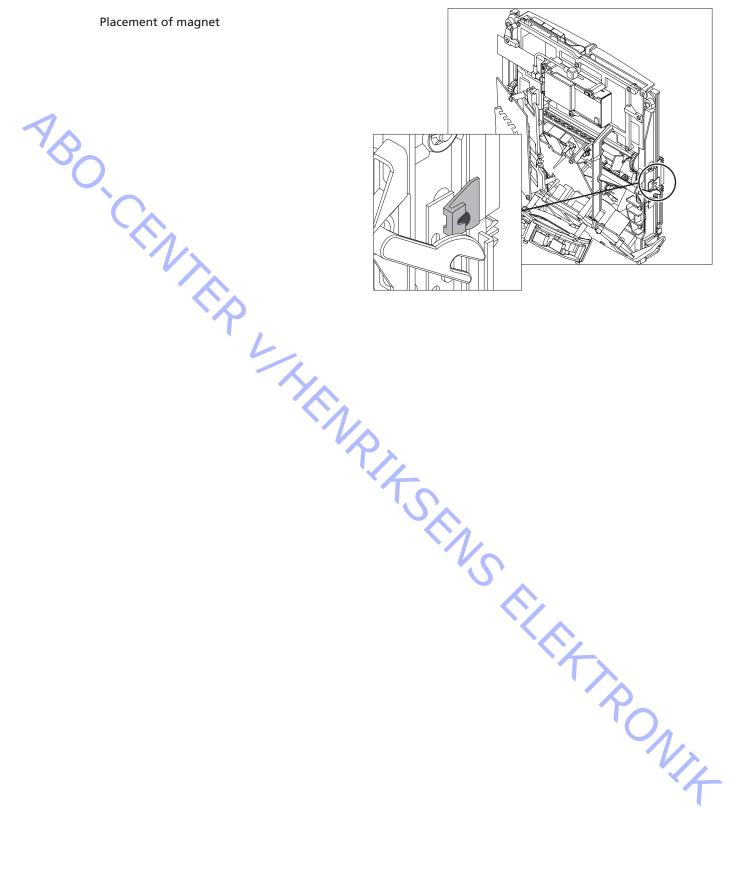


2.10 Fault flow chart BANG & OLUFSEN



BANG & OLUFSEN Fault flow chart 2.11

Placement of magnet



2.12 BANG & OLUFSEN

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BANG & OLUFSEN Service Mode 3.1

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3.2 Service Mode BANG & OLUFSEN

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BANG & OLUFSEN Service tips 4.1

Service tips

Service tool

Along with a Cable kit for ServiceTool (3375397) and a P.I.T. box (3375055) it is



4.2 Repair tips BANG & OLUFSEN

Repair tips

CD

The diodes and the laser are very sensitive to static electricity. Damaging the diodes or laser may reduce their lives dramatically. So be sure, that the workstation is protected against static electricity.

The product may not be connected to the mains, when the CD mechanism or 96Module is removed.

Normally, the CD will find focus first, and when that has been found, it will start the turntable motor. This means that if the motor cannot start, the reason may be that focus has not been found.

Exchange of the microprocessor and PCB2

When replacing the PCB6 remember to move the EEPROM 6IC6 from the defective PCB6 to the new PCB6, because it contains valuable data (serial no. and PIN code etc). The data is not transferred to the new module until you have been in contact with the PIN-code protection or after 12 hours of connection to the mains. This means that you can try out a new PCB6 without transferring the product's serial no. etc.

Note!

When the serial number has been transferred to the microprocessor, it can only be used for this specific product; it must go back to Bang & Olufsen's module repair department as an exchange module to be erased again. If the product functions are OK, and the PIN-code protection is also OK; there is no need to test the functionality of the PIN-code protection.

Exchange of software EEPROM on PCB6

When exchanging the EEPROM on PCB6, the data from the microprocessor will be written into the EEPROM, when selecting any source e.g. RADIO. It is possible to borrow an EEPROM from another BeoSound 4 to test, if there is suspicion of a fault in the original EEPROM. The EEPROM will always adopt the data from the main microprocessor.

Replacing of both PCB6 and EEPROM 6IC6

If both PCB6 and the EEPROM 6IC6 need to be replaced it is necessary to have them pre-programmed from Bang & Olufsen with the correct serial no., otherwise they will not work. Please contact Bang & Olufsen.

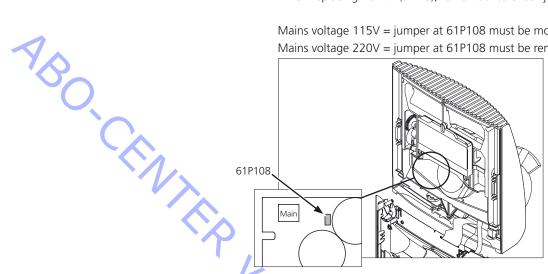
Replacement of modules

Replacement of the PCB61 (SMPS)

When replacing PCB61 (SMPS), remember to check jumper at 61P108

5.1

Mains voltage 115V = jumper at 61P108 must be mounted Mains voltage 220V = jumper at 61P108 must be removed



Replacement of the Main microcomputer PCB6 (µPH8)

When replacing the PCB6 remember to move the EEPROM 6IC6 from the defective PCB6 to the new PCB6, because it contains valuable data (Serial no., PINcode etc.). The data is not transferred to the new module until you have been in contact with the PIN code protection or after 12 hours of connection to the mains. This means that you can try out a new PCB6 without transferring the products serial no. etc.

Note!

When the serial number has been transferred to the micro-processor, it can only be used for this specific product; it must go back to Bang & Olufsen's module repair department as an exchange module to be erased again. If the product functions are OK, and the PIN-code protection is also OK; there is no need to test the functionality of the PIN-code protection.

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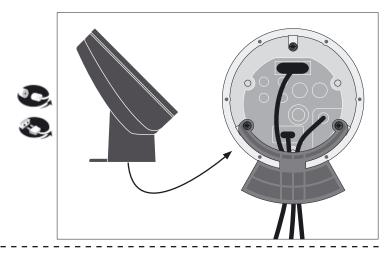
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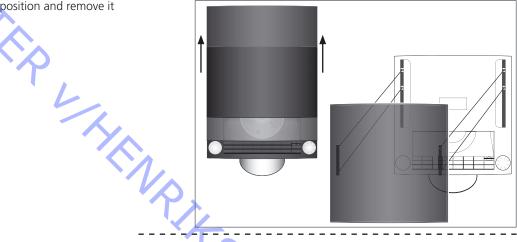
Disassembly overview

	PCB	Module name	Page	
	1	Socket	5.5	
	2	Master	5.6	
	3	Magic	5.8	
7	4	Light	5.9	
' \(\rangle_{-}\)	5	Turn wheel	5.10	
	6	Main microprocessor	5.7	
	7	Codec	5.11	
	8	Tacho	5.12	
	9	Headphone	5.13	
	10	Display	5.14	
· / X	11	SD/MMC card reader	5.15	
	12	Switch	5.16	
	37Module	DAB	5.20	
·~	61	SMPS	5.17	
	85	FM tuner	5.18	
	96Module	CD unit	5.19	
		Cabinet	5.21	
		Clamper cover	5.22	
		Clamper unit	5.23	
		Base	5.24	
		Door mechanism	5.25	
		Drivebelt	5.26	
		Finger niche	5.27	
		Keyboard	5.28	
		Motor	5.29	
				TONA
				1/4

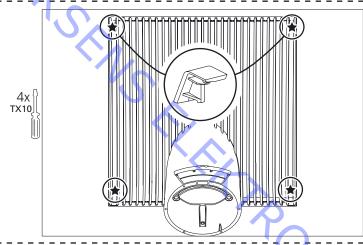
- Remove all cables



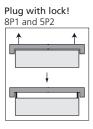
- Push front glass to top position and remove it

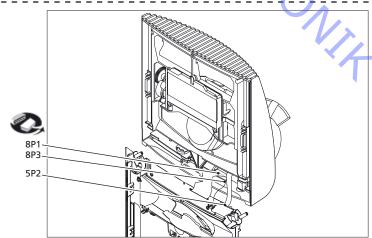


- Remove screw covers at top - and all screws

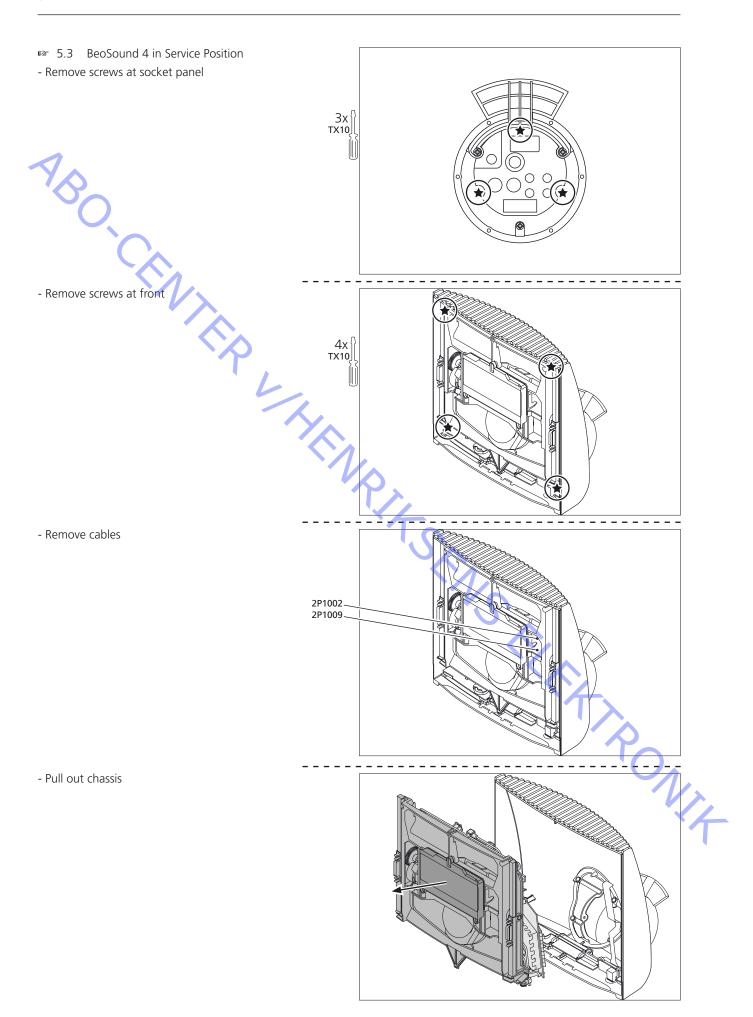


- Remove cables



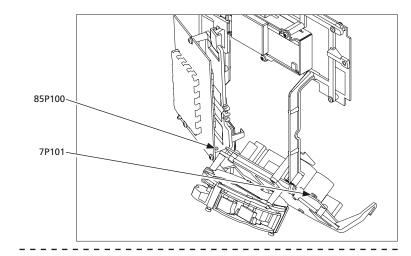


5.4 Remove Chassis BANG & OLUFSEN



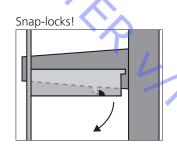
■ 5.3 BeoSound 4 in Service Position

- Remove plugs

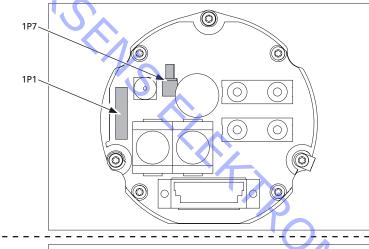


5.5

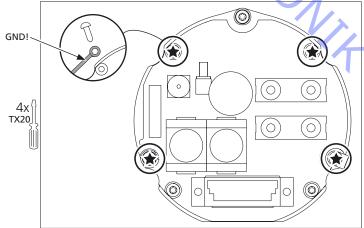
- Pull off socket cover

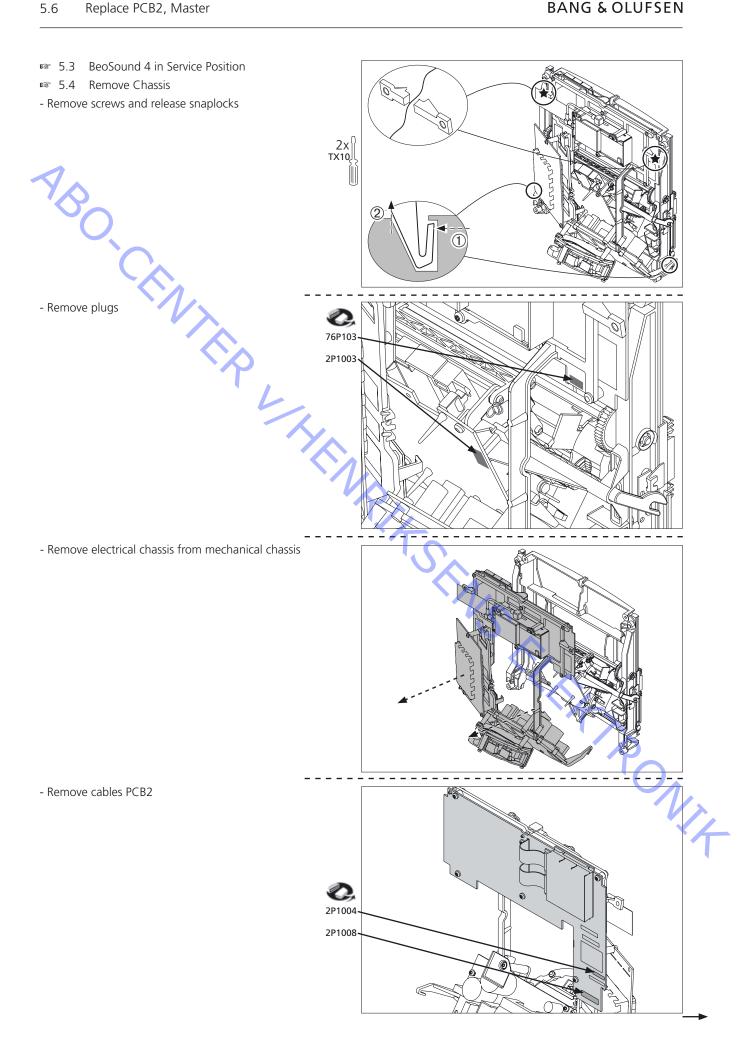


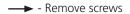
- Remove plugs



- Remove screws

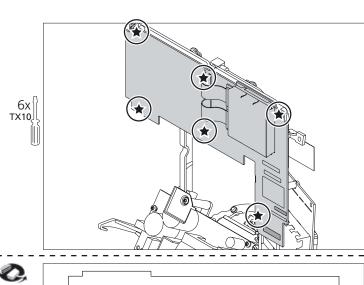




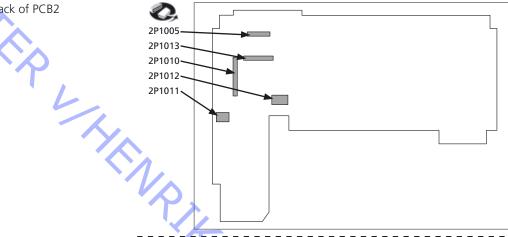


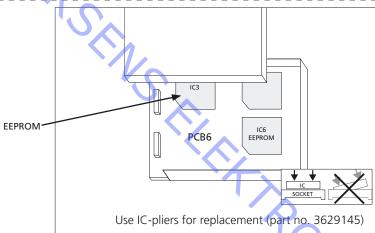
- Remove plugs on the back of PCB2



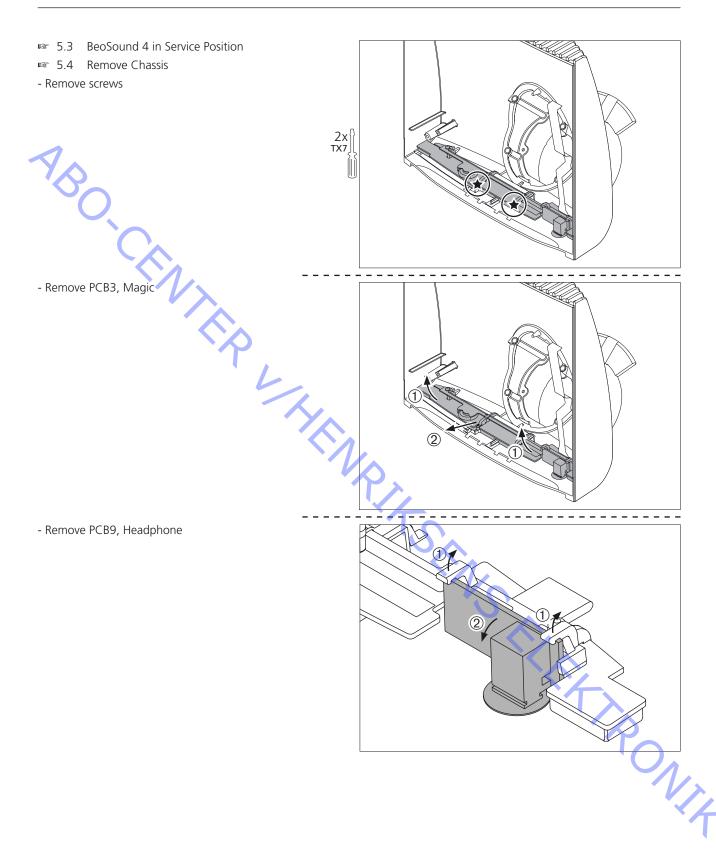


5.7





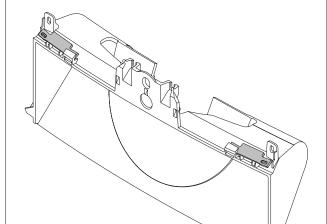
5.8

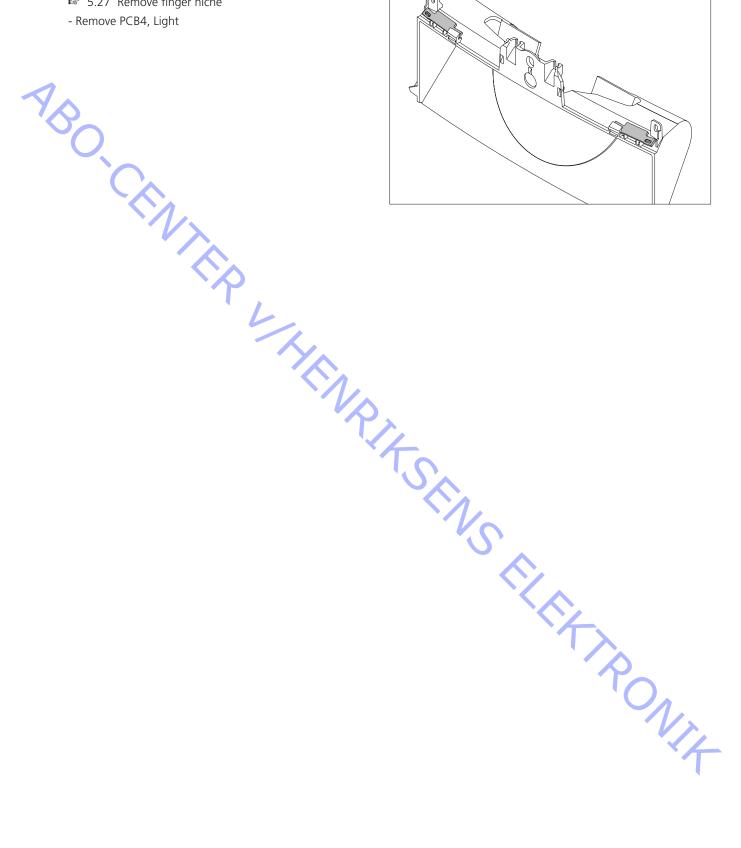


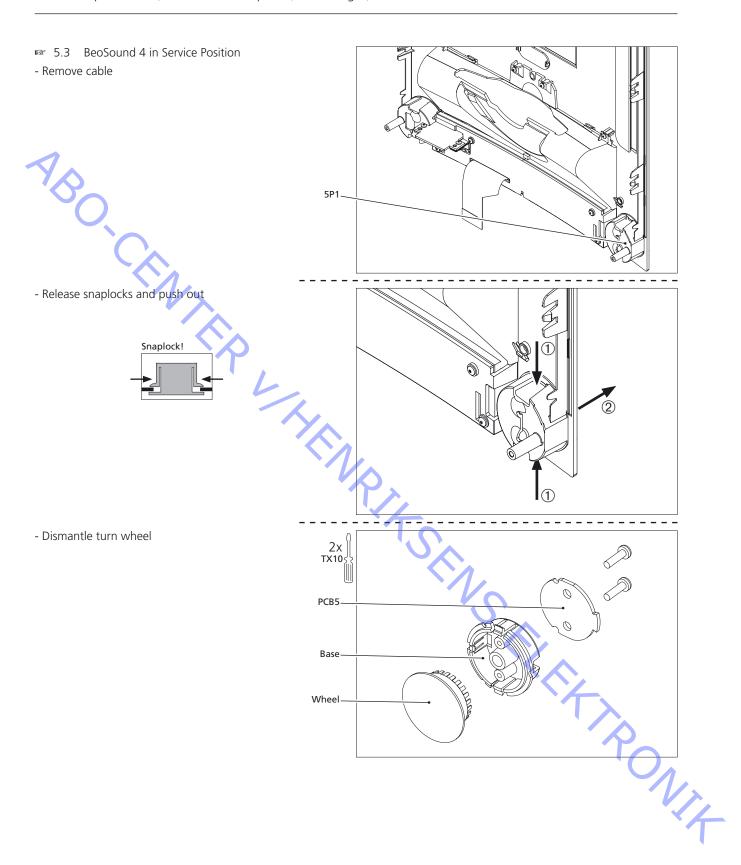
BANG & OLUFSEN Replace PCB4, Light 5.9

5.3 BeoSound 4 in Service Position

- Remove PCB4, Light

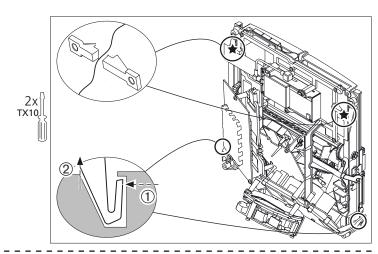




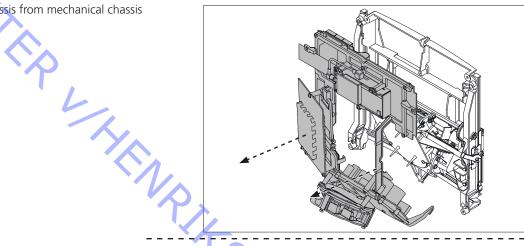


■ 5.3 BeoSound 4 in Service Position

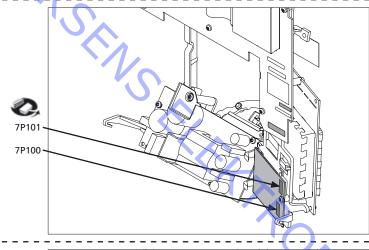
- Remove screws and release snaplock



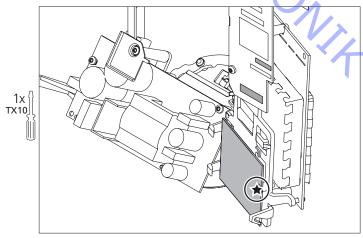
- Remove electrical chassis from mechanical chassis

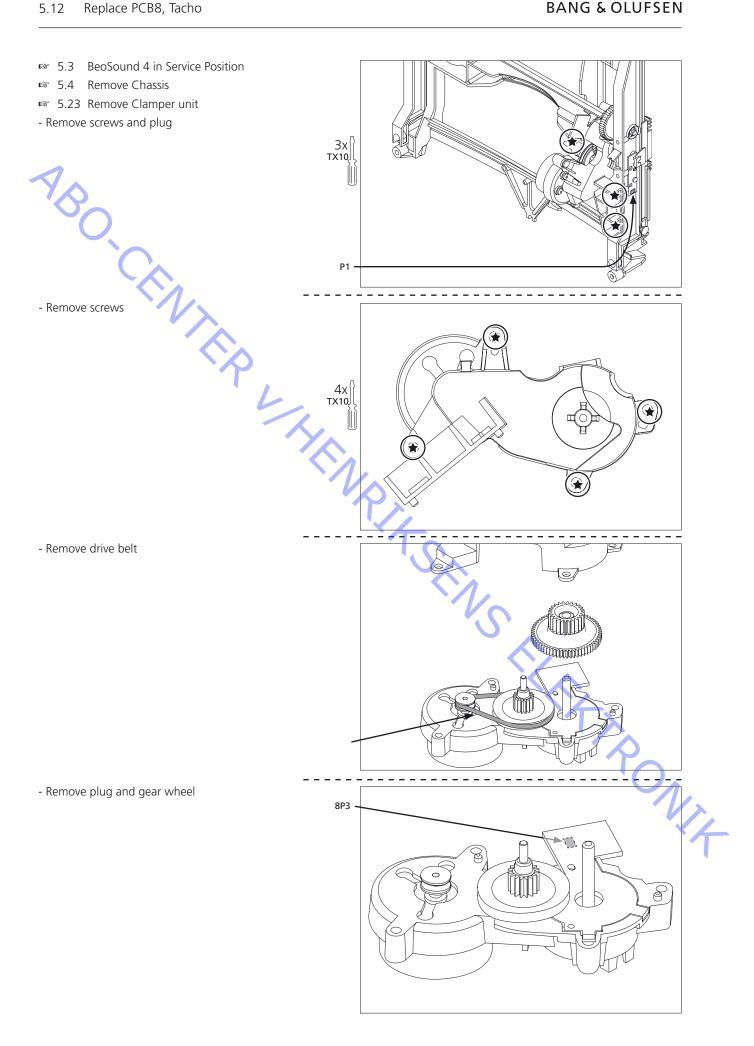


- Remove plugs



- Remove screw

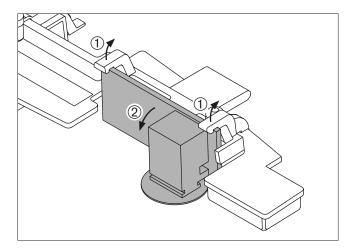




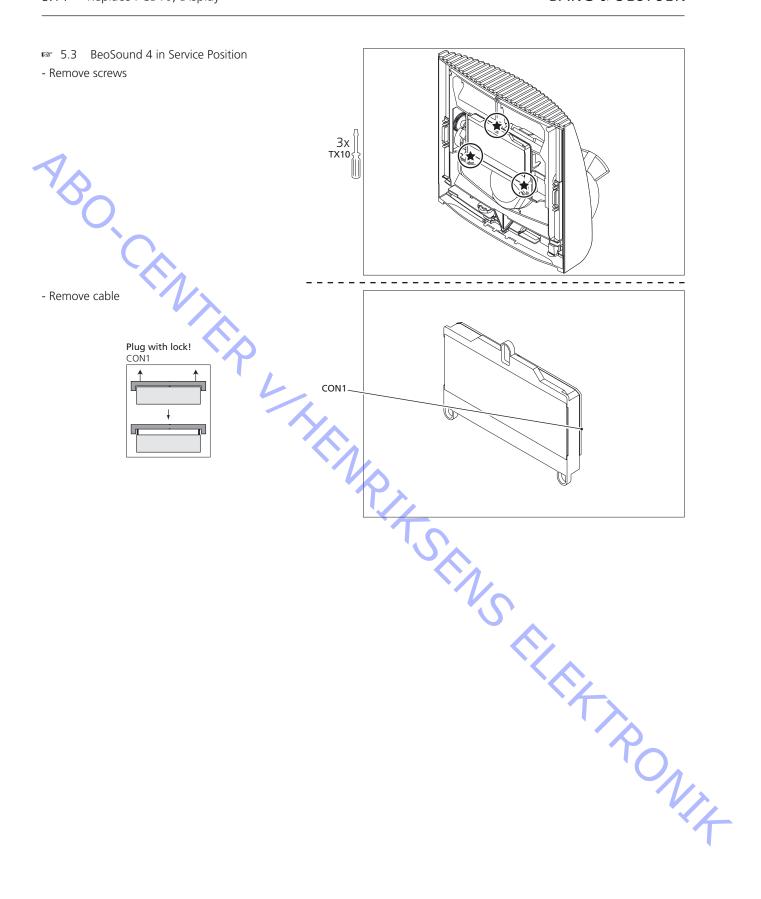
■ 5.3 BeoSound 4 in Service Position

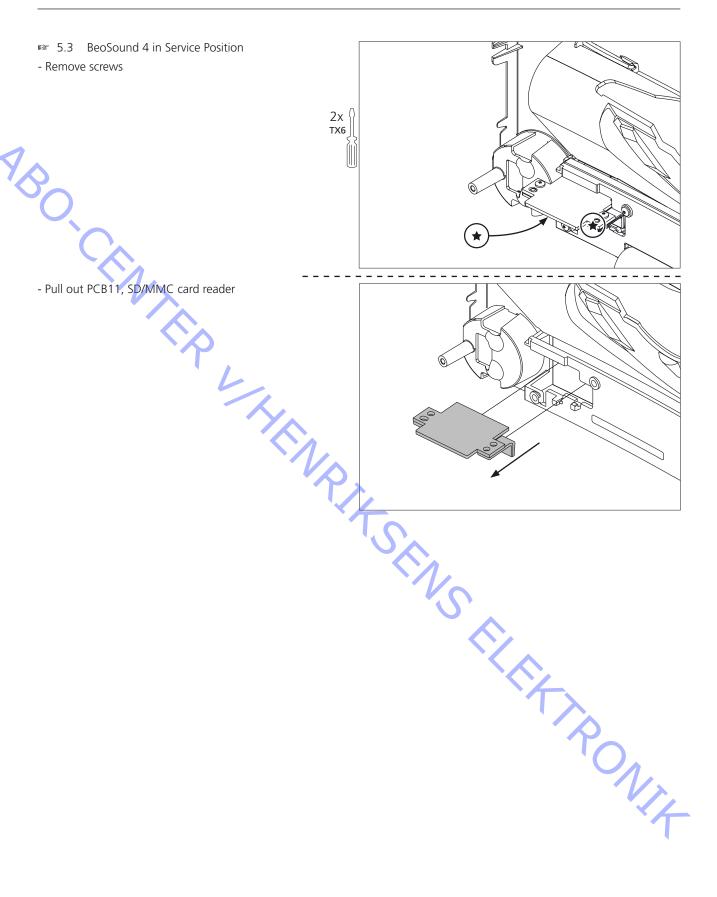
■ 5.4 Remove Chassis

- Remove PCB9, Headphone

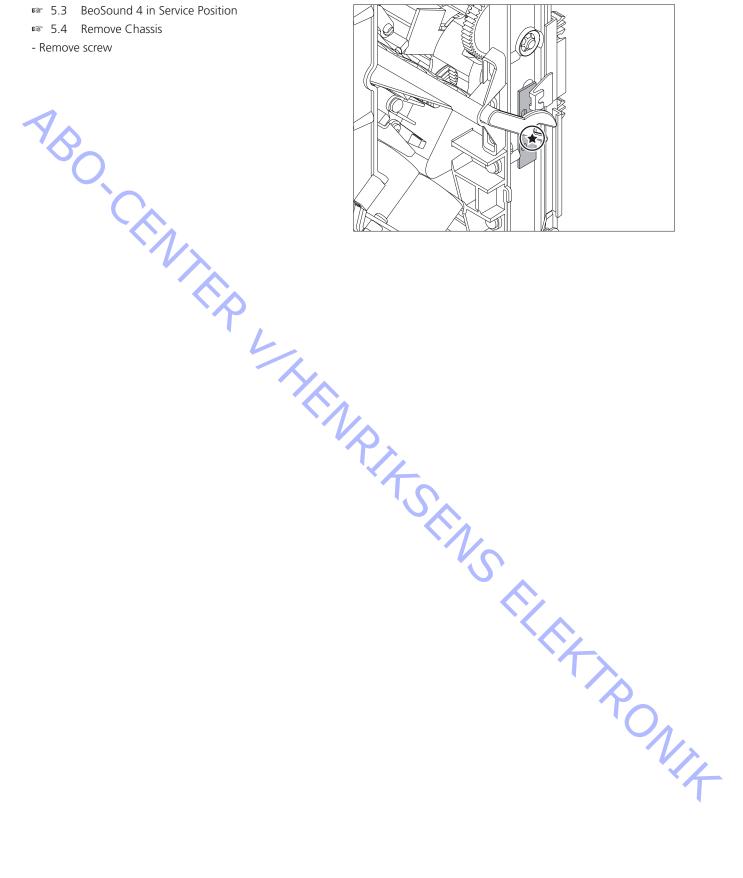


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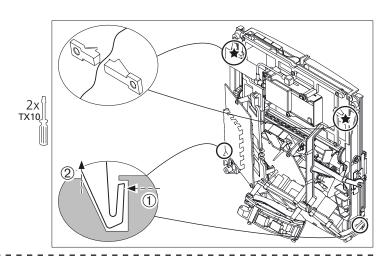
- 5.3 BeoSound 4 in Service Position
- 5.4 Remove Chassis
- Remove screw



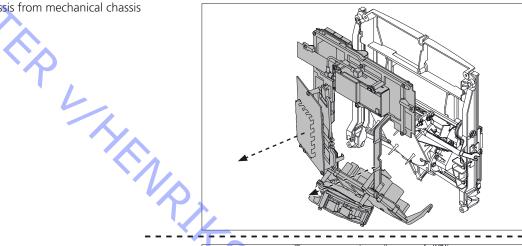
■ 5.3 BeoSound 4 in Service Position

■ 5.4 Remove Chassis

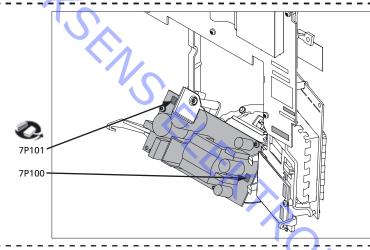
- Remove screws and release snaplock



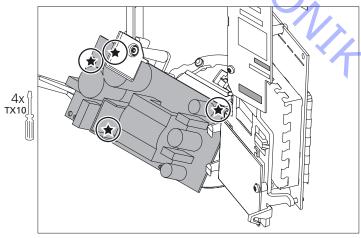
- Remove electrical chassis from mechanical chassis



- Remove plugs



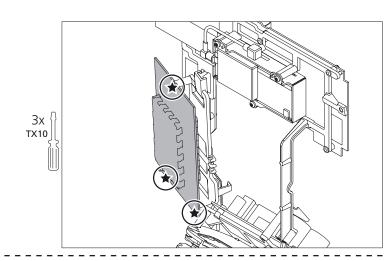
- Remove screws

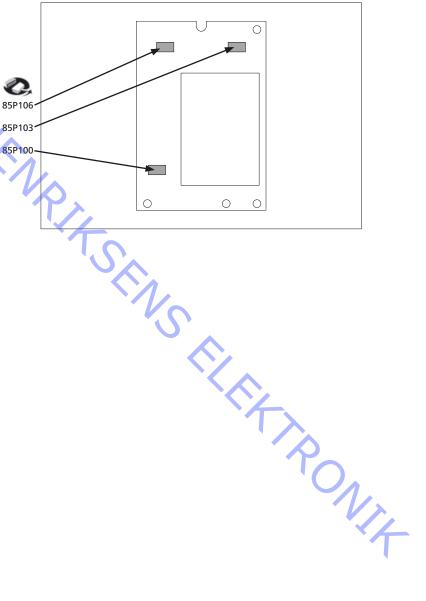


- 5.3 BeoSound 4 in Service Position
- Remove screws

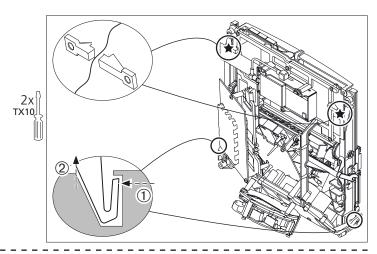


- Remove plugs on th back of PCB85

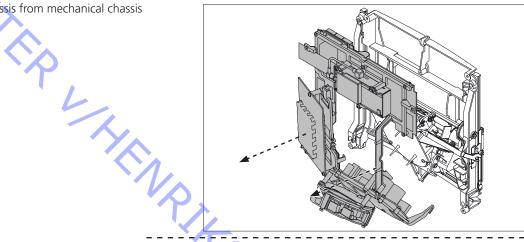




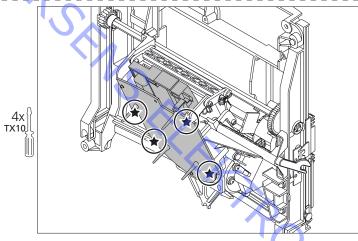
- 5.3 BeoSound 4 in Service Position
- Remove screws and release snaplock



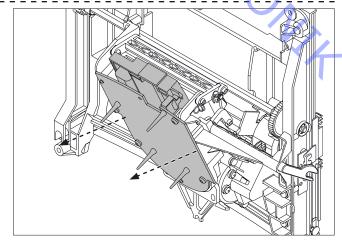
- Remove electrical chassis from mechanical chassis



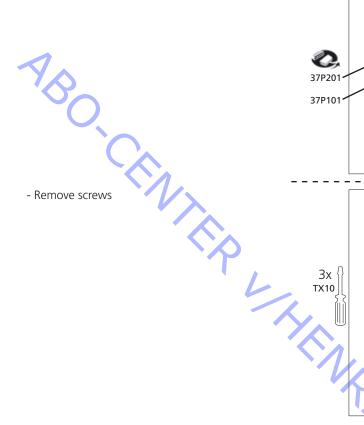
- Remove screws

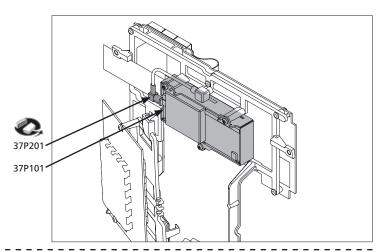


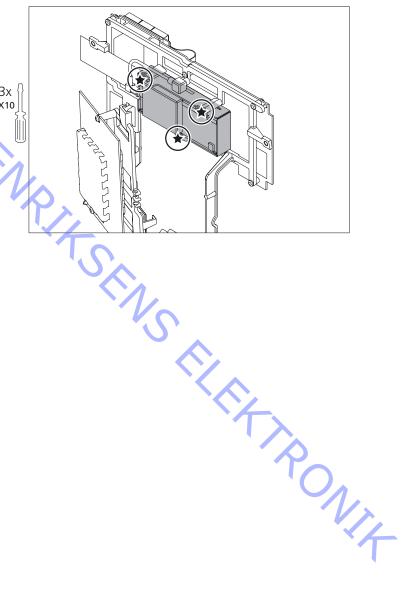
- Pull off CD unit



- 5.3 BeoSound 4 in Service Position
- 5.4 Remove chassis
- Remove plugs



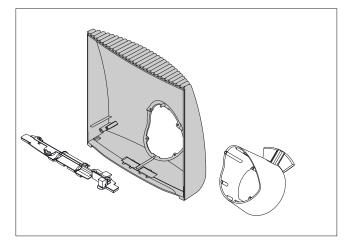


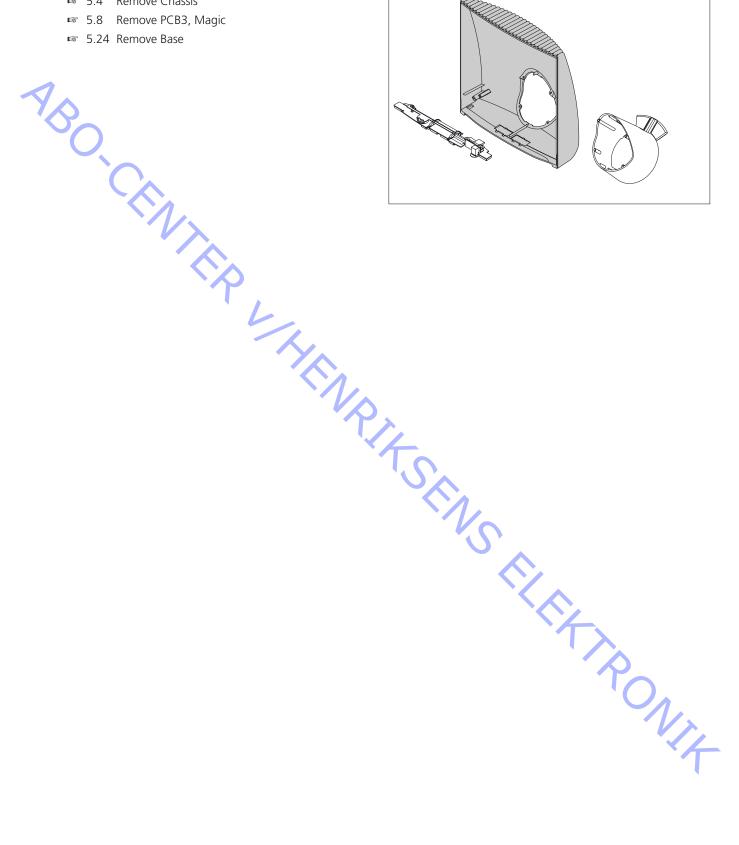


BANG & OLUFSEN Replace Cabinet 5.21

5.3 BeoSound 4 in Service Position

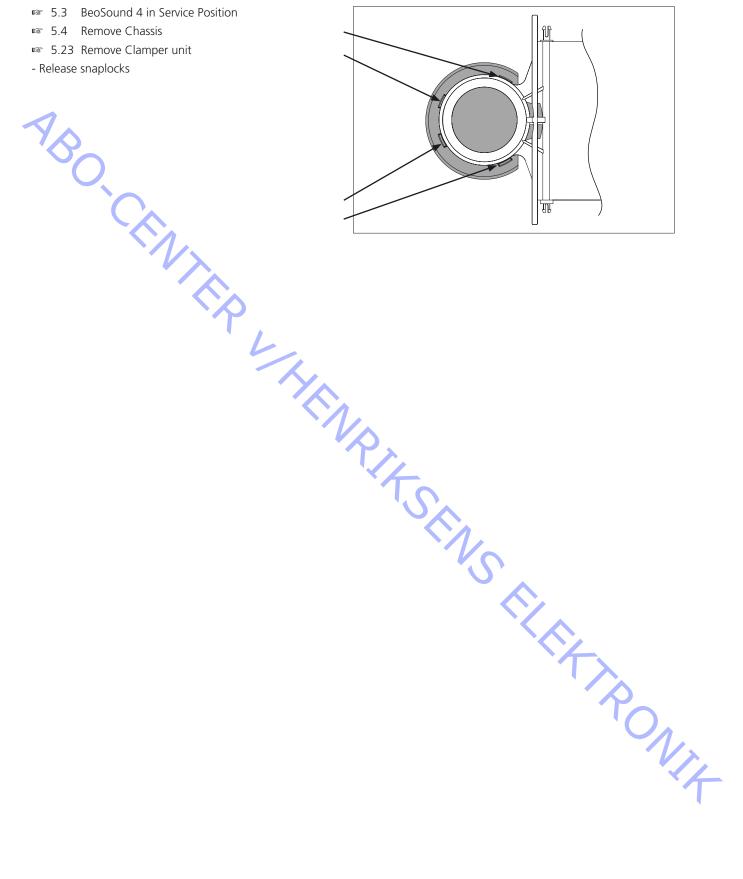
■ 5.8 Remove PCB3, Magic





- 5.3 BeoSound 4 in Service Position

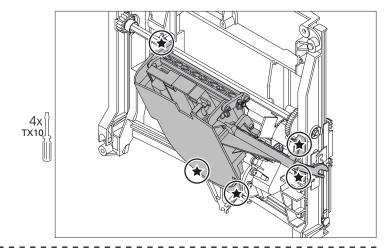
- Release snaplocks



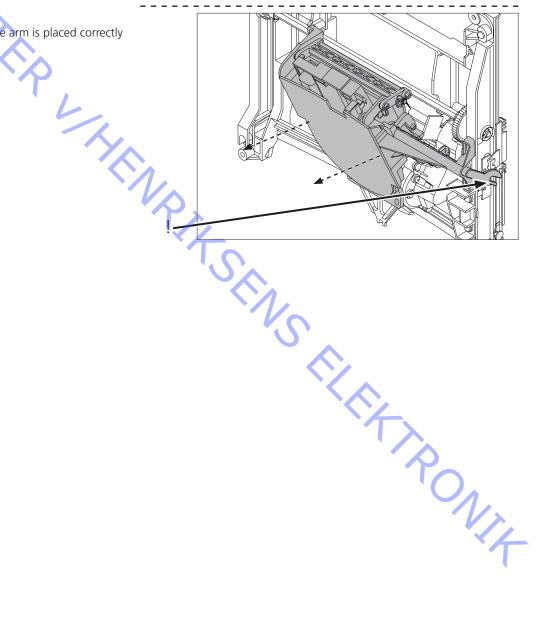
■ 5.3 BeoSound 4 in Service Position

■ 5.19 Remove CD unit

- Remove screws



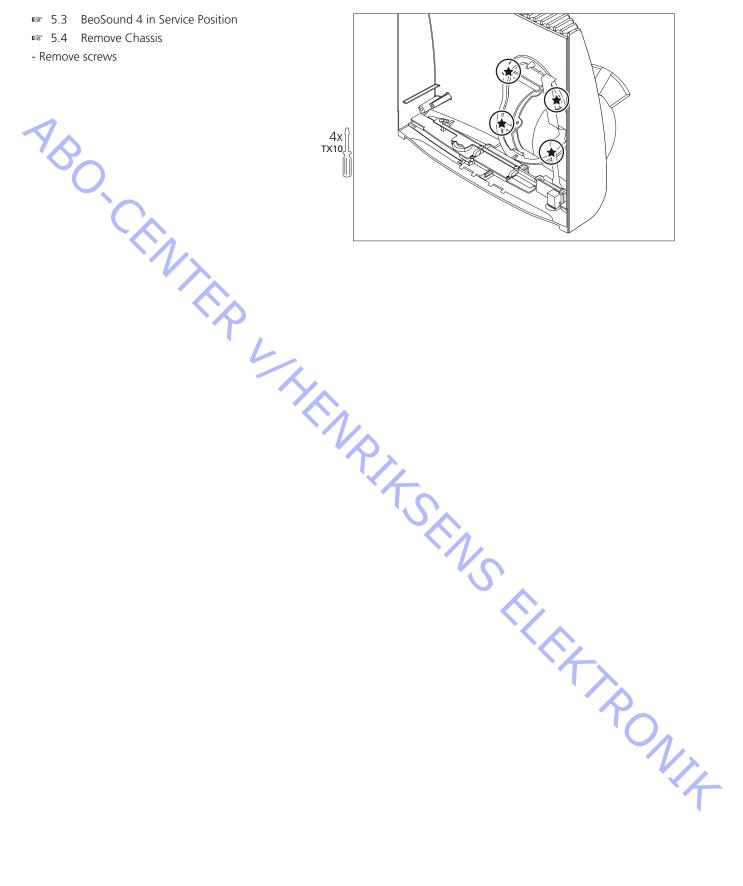
- Lift off clamper Note! Take care that the arm is placed correctly



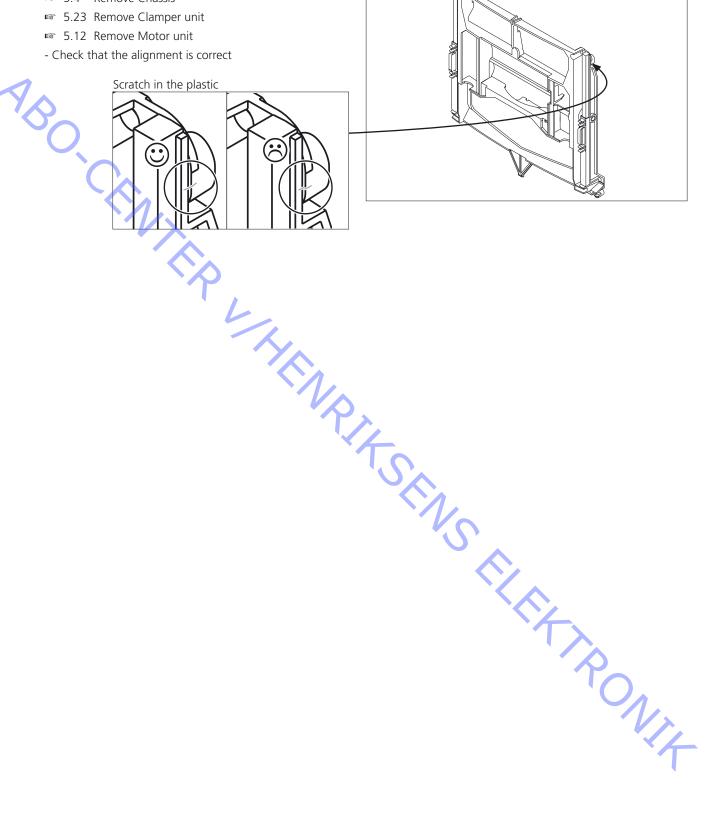
5.24 Replace Base **BANG & OLUFSEN**

■ 5.3 BeoSound 4 in Service Position

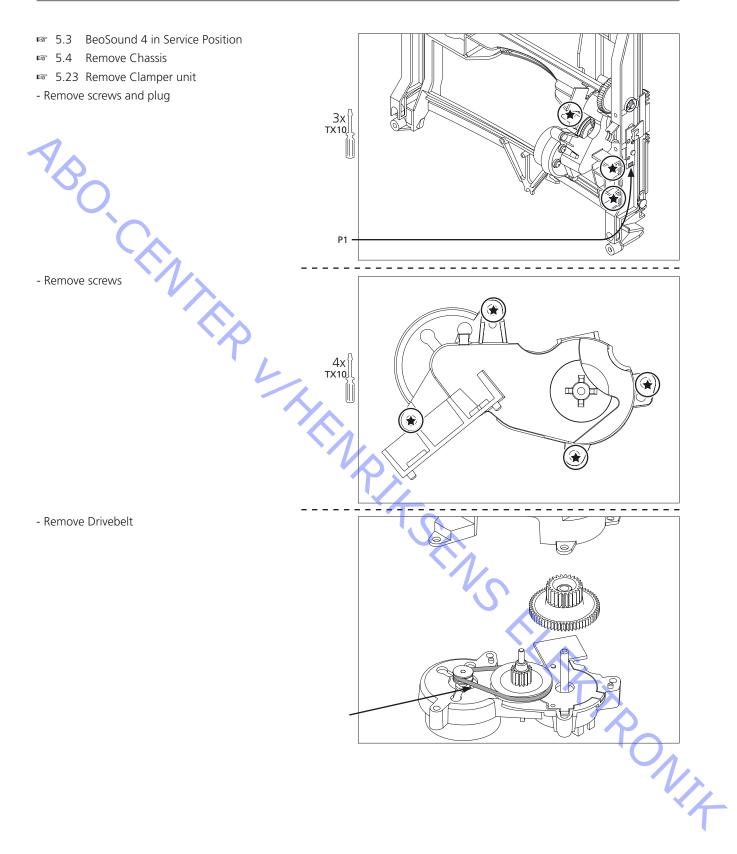
- Remove screws



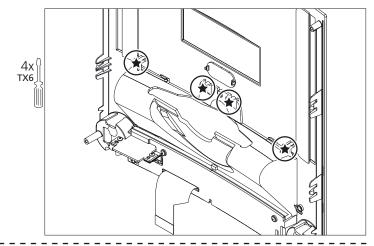
- 5.3 BeoSound 4 in Service Position



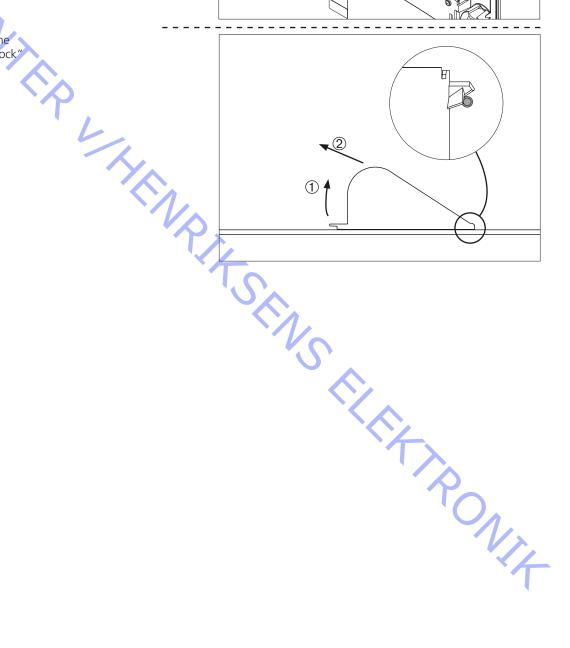
5.26 Replace drivebelt BANG & OLUFSEN



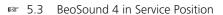
- 5.3 BeoSound 4 in Service Position
- Remove screws



- Remove finger niche Note: lift free of "lock"



5.28 Replace keyboard **BANG & OLUFSEN**

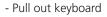


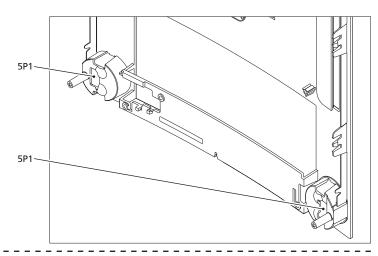
■ 5.15 Remove SD/MMC card reader

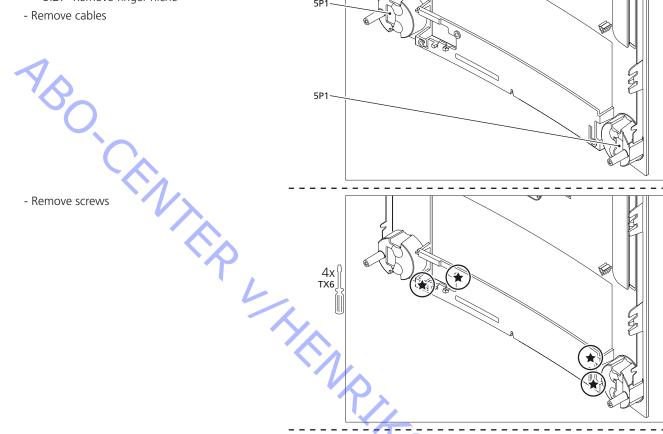
■ 5.27 Remove finger niche

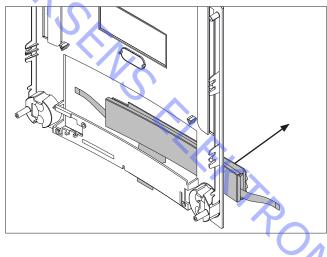
- Remove cables

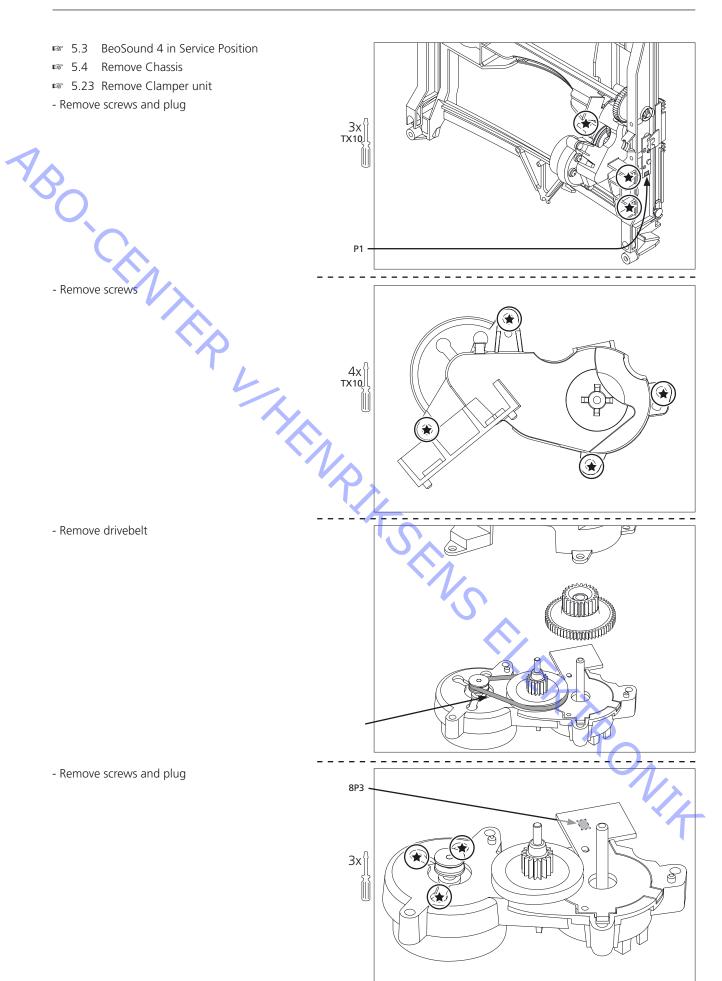












5.30 BANG & OLUFSEN

ABOCCENTER WHENRIASENS ELEKTRONIA

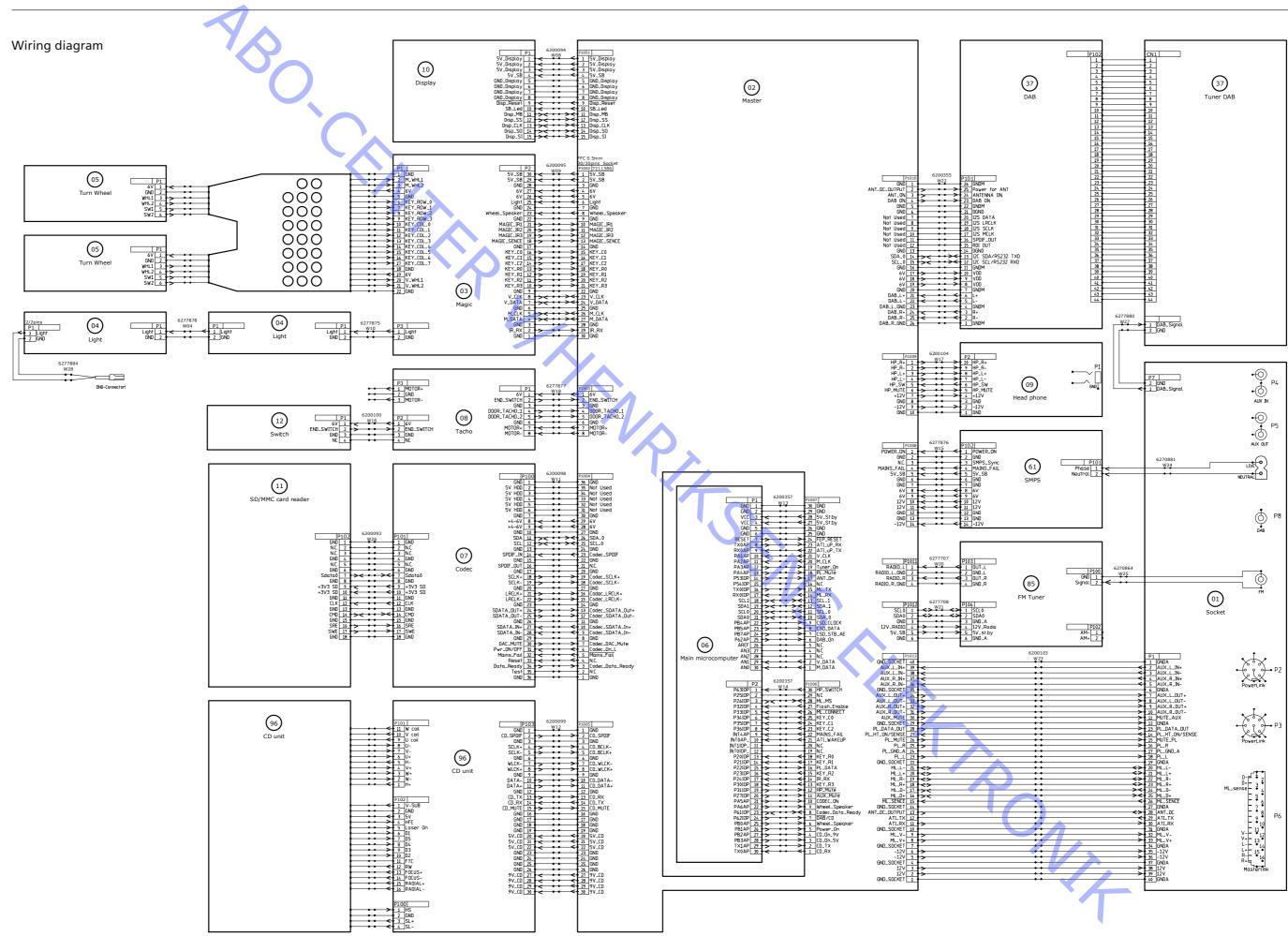
Specification guidelines for service use	BeoSound 4
With FM and RDS	Type 2851 EU 230V
	Type 2852 GB 230V
	Type 2853 US 120V
	Type 2854 JP 100V
	Type 2855 AUS 240V
	Type 2857 TWN 120V
	Type 2858 KOR 230V
	Type 2859 LAT 230V
	Type 2860 CHK 230V
(_)	
Preamplifier section	
ntermod. distortion	≤0.1%, IHF
requency:	
AUX in	20Hz – 20kHz
Signal to Noise ratio:	
AUX, A-weighted, volume 80	≥90dB, typ. 97dB
Channel separation	≥50dB, typ. 63dB
Channel unbalance	≤±1dB
Tuner, FM section	07.5 4000411
M range – EU/US	87.5 – 108MHz
M range for type 2854 – Japan	76 – 90MHz
Jsable sensitivity mono	≤12dBf
50dB quieting sensitivity mono	≤20dBf
Signal-to-noise ratio mono	≥68dB, typ. 70dB
Signal-to-noise ratio stereo	≥62dB, typ. 65dB
Frequency response mono	30Hz – 15kHz, ±2dB
Frequency response Stereo	30Hz – 15kHz, ±2dB
RDS	PS-Name, RadioText, Clock
Funer, DAB section	
Receiving bands	174 – 240MHz (band 3)
receiving bands	1452 – 1492MHz (band L)
Sensitivity (BER = 10e-4)	-95dBm
Adjacent channel rejection (BER =10e-4)	35dB
Out of band rejection (BER = 10e-4)	45dB
Signal/noise ration (1kHz)	≥95dB
Frequency response 15 – 20000Hz	±1dB
Decoding	Up to 256kbit/s
Sampling	Half and full rate
out the state of t	Train and rain rate
R operation	Beo4 recommended
n operation	Ded Freedimineracid
CD player	
Playback	CD-DA, CD-R/RW, (Audio format only)
- Lander Control of the Control of t	es sing es name, video connections
	SBC 444A (part no. 3634064)
	SBC 429
CD, disc types	12cm (5"), 8cm (3")
Frequency response	20Hz – 20kHz ±1dB
1 2 TOP TO	
signal/noise ratio:	
inear, below 80kHz	≥90dB / 76dB with volume 80
JNW	≥98dB / 90dB with volume 80
A-Weighted	≥103dB / 97dB with volume 80
-	
Channel separation:	
•	≥85dB
Channel separation: I kHz 20Hz – 20kHz	≥85dB ≥75dB

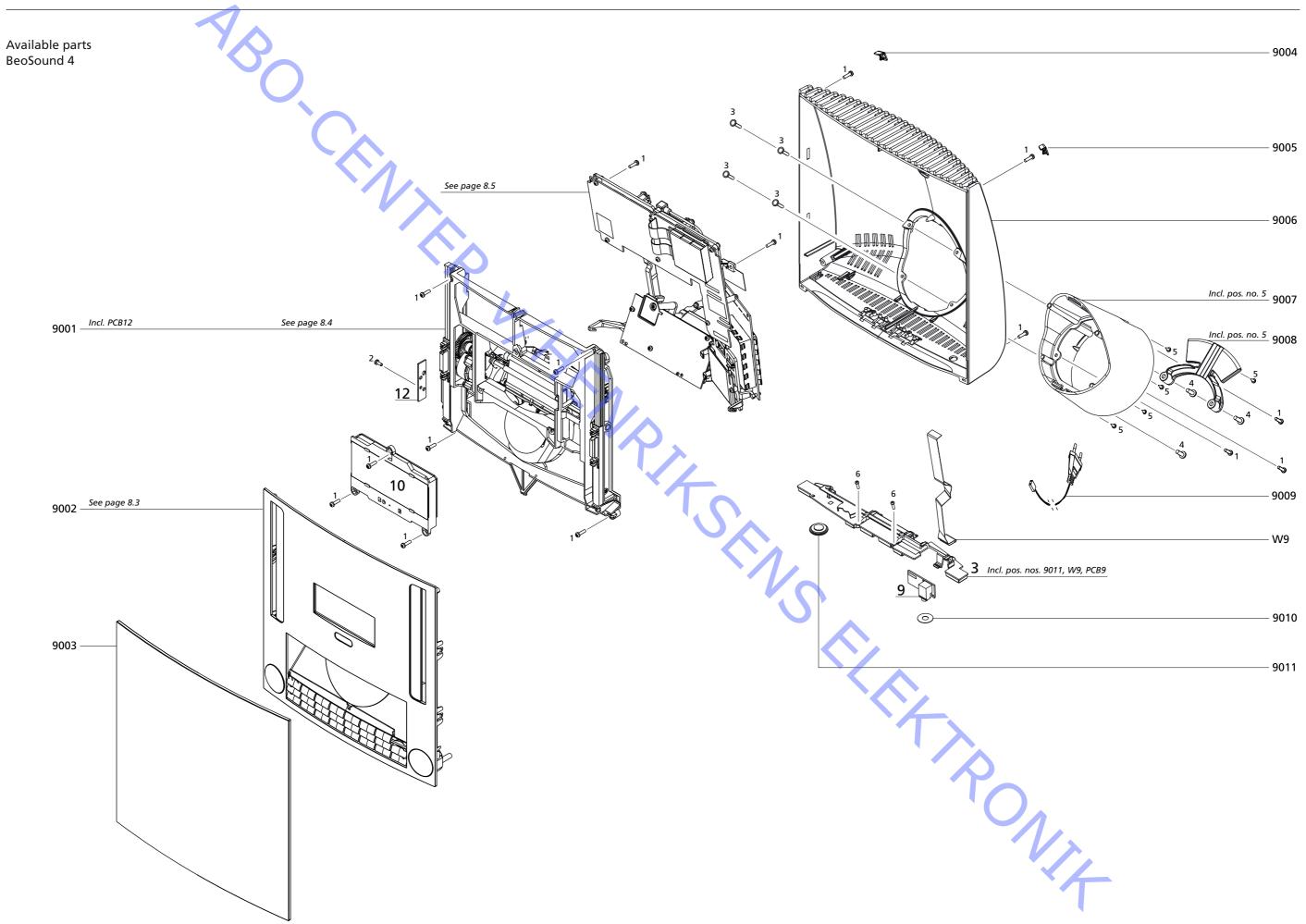
Dynamic range (1kHz)	≥92dB		
Channel unbalance (1kHz)	≤±1dB		
TUD. AL. '			
THD+Noise: 1kHz, 0 dBFS, volume 76	-85dB / -7	75dB with volume 76	
TRIE, G dbi 5, volume 70	03007 7	Sab with volume 70	
SD Player/recorder			
Storage media	Secure Di	gital cards (SD)	
76		liaCard (MMC)	
Capacity		SD SanDisk compatible	
Audio Codec playback	All capaci	មេ nat: Sampling frequencies: 8, 11.025, 12, 16, 22.05, 24, 32	
, add code physical	44.1 and		
	Constant	or variable bit rates: 8, 16, 24, 32, 40, 48, 56, 64, 80, 96,	
		, 160, 192, 256 and 320Kbps	
		mpling frequencies: 8, 11.025, 16, 22.050, 32, 44.1 and 48kH	
And and an appetite a format	Bit rates: MP3 form	64, 80, 96, 128, 160 and 192Kbps	
Audio codec recording format		8kbit/s in stereo	
		sample frequency	
· ~		ample resolution	
Testdisc: SBC429, Bitrate: 128kbit/sec, Codec: MPEG 1 Layer 3			
Frequency response: Recorded from CD, fs = 44.1kHz	2011- 11	5kHz ±1dB	
Recorded Hottl CD, 15 = 44.1KHZ	2002 – 13	DKMZ ±1UD	
Signal/noise ratio:			
LINEAR, below 80kHz	≥76dB		
UNW	≥90dB		
A-Weighted	≥97dB		
Dimensions			
W x H x D	280 x 310	0 x 240mm / 11.0 x 12.2 x 9.4 in	
Weight	4kg	3 X 2 4 5 11 11 11 11 11 11 11 11 11 11 11 11 1	
Cabinet finish		ploured glass	
Power consumption	Stby. 1W, typical 12W		
Accessories Floorstand	Tupo 2100		
Wall brackets	Type 2180 Type 2181		
vvuii bruckets	1ypc 210		
Connections			
Master Link x 1	Pin 1	Data0.25V	
	Pin 2	Data+ +0.25V	
1 7	Pin 3	ML sense 0 – 5V	
02 -	Pin 4-8 Pin 9	ATI/Tx	
04 -	Pin 10	ATI/Rx	
○ 5 - ○6 -	Pin 11	Supply voltage -7V > -15V, stby3V > -15V	
0 7 –	Pin 12	Supply voltage 7V >15V, stby. 3V >15V	
0 8 - 0 9 -	Pin 13	Audio L-	
0 0		1V bal., Rin 2.2MΩ Rout 75Ω	
0 2 - 0 3-	Pin 14	Audio L+	
014 -	Pin 15	1V bal., Rin 2.2M Ω Rout 75 Ω Audio R-	
○ 15 - ○16 -	11117	Audio N- 1V bal., Rin 2.2M Ω Rout 75 Ω	
_	Pin 16	Audio R+	
		1V bal., Rin 2.2Μ Ω Rout 75 Ω	

Audio Aux Input/Output x 1	AUX in L/R Phono 2V RMS 22 – $47k\Omega$
	AUX out L/R Phono 1.3V RMS $\pm 0.2 < 1 \text{k}\Omega$
Power Link Front & Rear	Pin 1 PL ON = >2.5V, OFF = <0.5V
	Pin 2 Signal GND
5, 1 , 4	Pin 3 Audio L out 0V to 2V RMS
	Pin 4 PL speaker ON = >2.5V, OFF = <0.5V
3 → 0 0 0 0 1	Pin 5 Audio R out OV to 2V RMS
	Pin 6 Data: High >3.5V. Low <0.8V
	Pin 7 Data GND
7 1 6	
O.	Pin 8 Not used
Headphones x 1	
3 F	Sound level experienced should be the same using Form 1 headphone and BeoLab 4000 speakers L L Sound level experienced should be the same using Form 1 headphone and BeoLab 4000 speakers
Output level, -0dBFS, volume 72, RL 33Ω	Max 1.4VRMS
Signal/Noise ratio, A-weighted, -odBFS, vol. 72	≥92dB without clipping
FM Aerial x 1	75 Ω impedance
DAB aerial x 1	75Ω impedance
Mains	Cable included
	187 – 264V, 50 – 60Hz
Phase O	Type: 2851, 2852, 2855, 2858, 2859, 2860
	58 – 132V, 50 – 60 Hz
Earth 🕒	Type: 2853, 2854, 2857
	\ \ \ \ \ \
	10
	
C	
Subject to change without notice	<u> </u>
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6.4 BANG & OLUFSEN

ABO CHWILL WHENRIASENS ELLERARONIA





3162231

3103274

Rubber foot 2011048 Screw 2.5 x 8mm

3110018 Movable mechanics incl. PCB12

9001

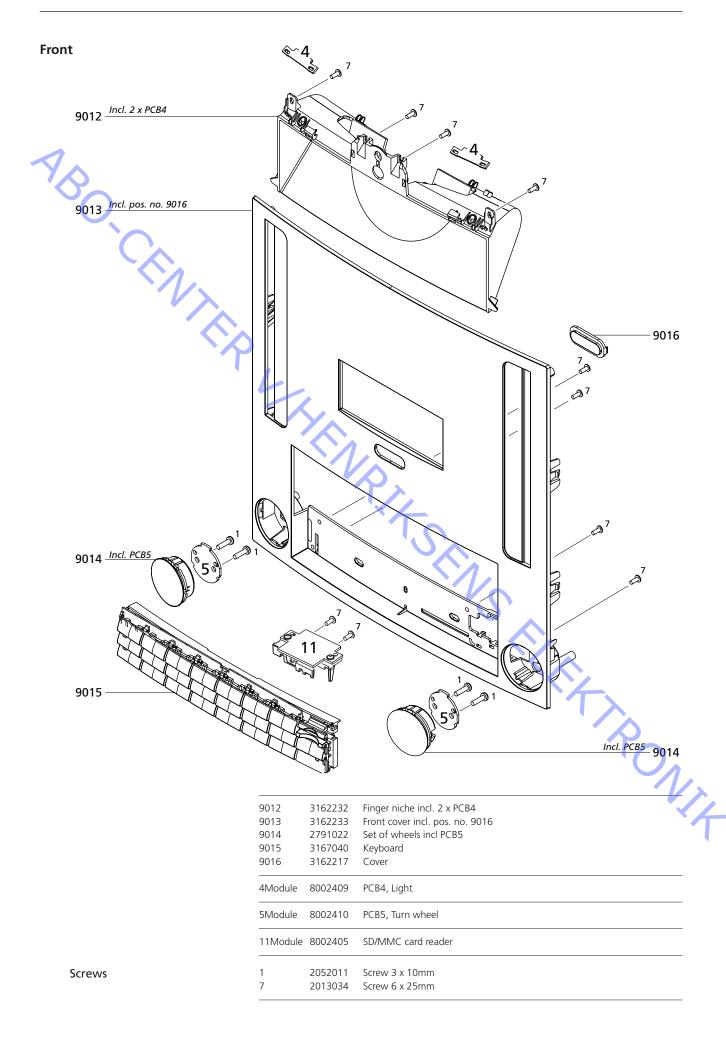
9002

BeoSound 4

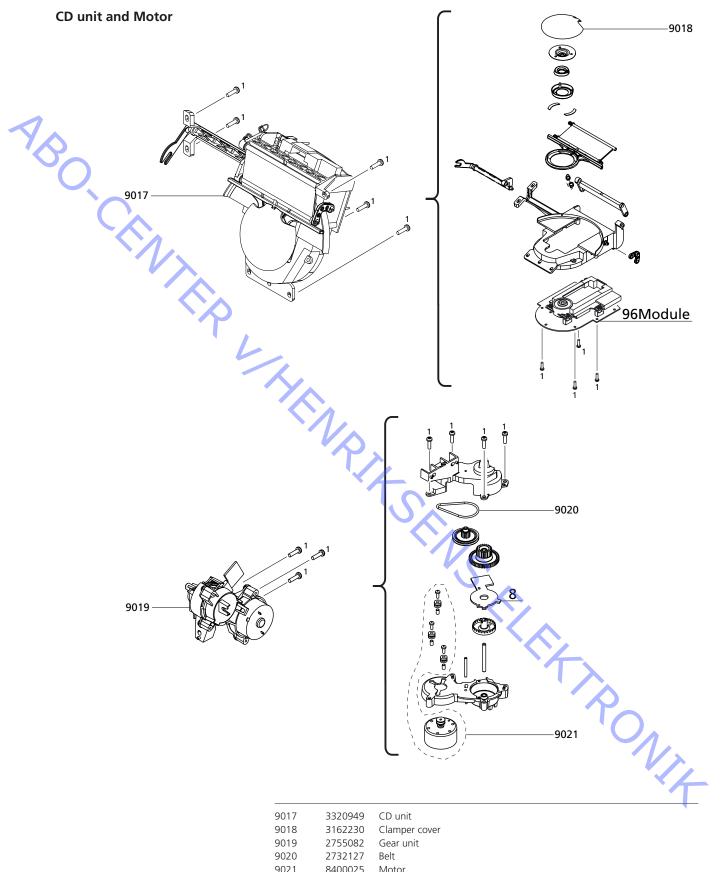
	9003	3162228	Glass
	9004	3341017	Screw cover, left
	9005	3341014	Screw cover, right
	9006	3430045	Cabinet
	9007	3103136	Base incl. pos. no. 5
	9008	3151913	Wire guide incl. pos. no. 5
	9009	6100079	Mains cable EU/LAT
		6100084	Mains cable UK
		6100247	Mains cable JP
		6100248	Mains cable AUS
()		6100306	Mains cable US/TWN
		6100089	Mains cable CHINA
		6100386	Mains cable KOR
	9010	3333050	Packing f/headphone
	9011	8480389	Dynamic speaker
	W9	6200095	Wire 30 pole
	VV9	0200093	while 30 pole
		3110016	PCB3, Magic incl. pos. nos. 9011, W9, PCB9
	3Module		<u> </u>
	3Module	3110016 8002412	PCB3, Magic incl. pos. nos. 9011, W9, PCB9
	3Module 9Module	3110016 8002412 8337004	PCB3, Magic incl. pos. nos. 9011, W9, PCB9 PCB9, Headphone
	3Module 9Module 10Module	3110016 8002412 8337004 8002400	PCB3, Magic incl. pos. nos. 9011, W9, PCB9 PCB9, Headphone PCB10, Display PCB12, Switch
Screws etc.	3Module 9Module 10Module	3110016 8002412 8337004 8002400 2052011	PCB3, Magic incl. pos. nos. 9011, W9, PCB9 PCB9, Headphone PCB10, Display
Screws etc.	3Module 9Module 10Module	3110016 8002412 8337004 8002400 2052011 2052029	PCB3, Magic incl. pos. nos. 9011, W9, PCB9 PCB9, Headphone PCB10, Display PCB12, Switch
Screws etc.	3Module 9Module 10Module	3110016 8002412 8337004 8002400 2052011	PCB3, Magic incl. pos. nos. 9011, W9, PCB9 PCB9, Headphone PCB10, Display PCB12, Switch Screw 3 x 10mm

Jibbei crew 2.5.

8.3 Available parts BANG & OLUFSEN

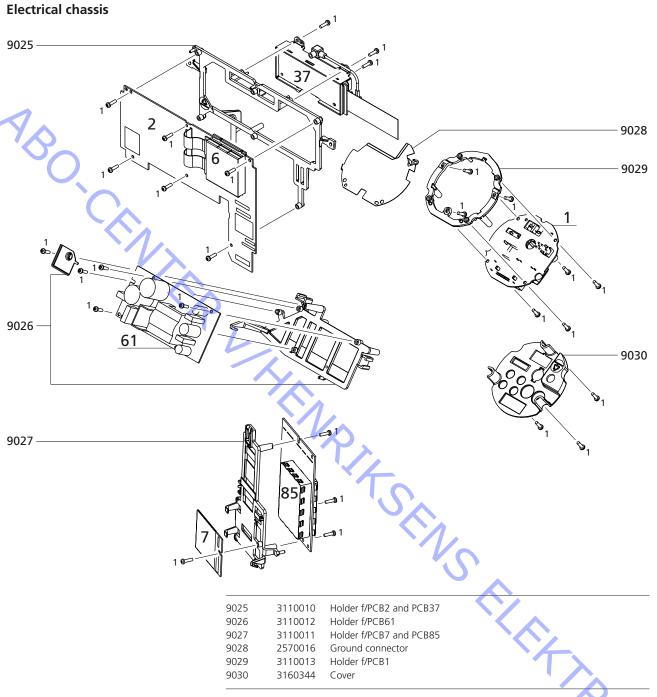


8.4



	9021	8400025	WIOLOT
	8Module	8002530	PCB8, Tacho
	96Module	8420024	CD unit
rews	1	2052011	Screw 3 x 10mm

8.5 Available parts BANG & OLUFSEN



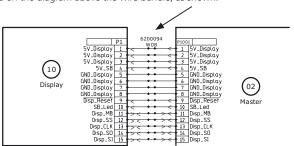
9025	3110010	Holder f/PCB2 and PCB37	
9026	3110012	Holder f/PCB61	
9027	3110011	Holder f/PCB7 and PCB85	
9028	2570016	Ground connector	
9029	3110013	Holder f/PCB1	
9030	3160344	Cover	
1Module	8002592	PCB1, Socket	70
2Module	8002593	PCB2, Master incl. PCB6	
6Module	8000138	PCB6, Main microprocessor	1
		SW IC	
	8343712	EEPROM	
7Module	8002595	PCB7, Codec	
37Module	8002046	DAB	
61Module	8002594	PCB61, SMPS	
	7221406	Shunt	
85Module	8002415	PCB85, FM tuner EU	
	8002417	PCB85, FM tuner JP	
1	2052011	Screw 3 x 10mm	

BANG & OLUFSEN Available parts 8.6

Wire bundles

See wiring diagram page 7.1.

The part no. is printed on the diagram above the wire bundle, as shown.



Parts not shown

3395296 Back-up suitcase 3375490 Product cover 3634031 Test CD - SBC 444A 3624018 Du Pont Polishing Cloth

ServiceTool

3375055 P.I.T. box

ServiceTool – download from Retail System / BeoWise

5 CONTROPORT

3375397 Cable kit for ServiceTool, complete

Cable kit consists of:

6270857 Main cable

6270852 Cable D-SUB-Jack

6277439 Wire, 3 pole

8008922 Minijack f/STB-Controller

Available documentation

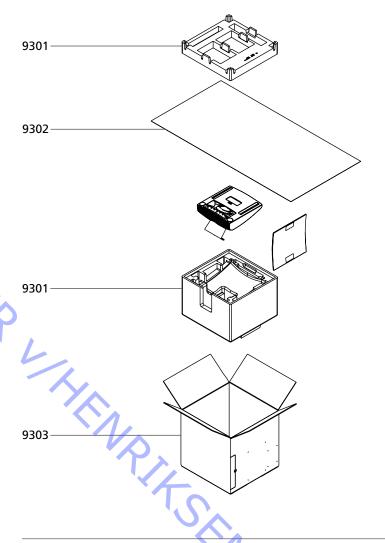
The ty

See Retail Ordering System

Accessories

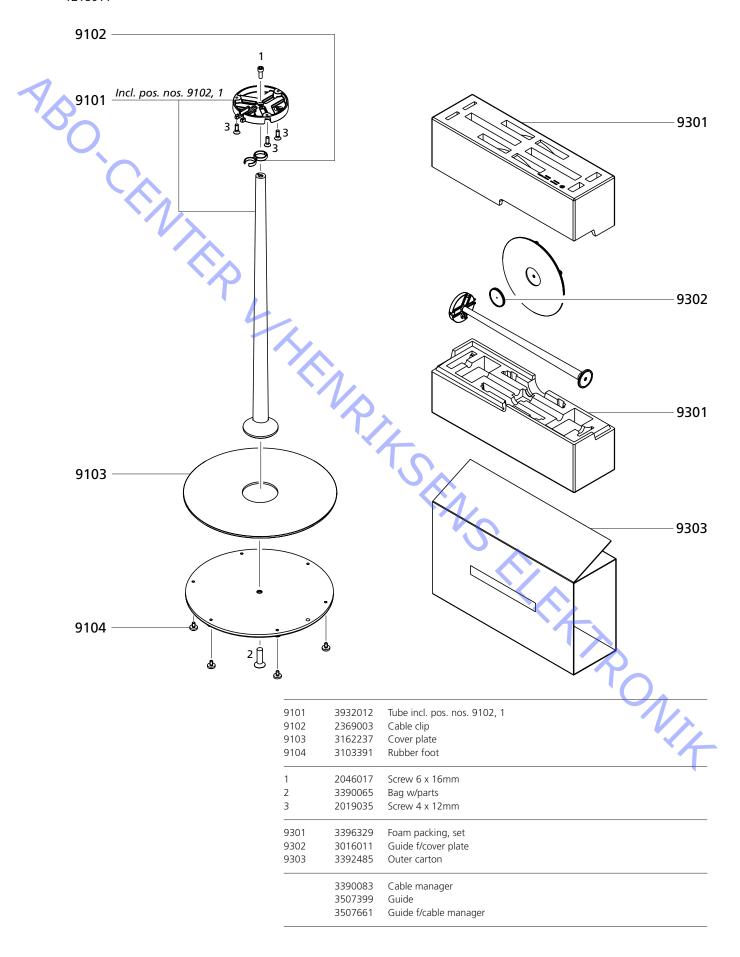
8720063 FM dipol antenna 8720044 DAB antenna 8.7 Available parts BANG & OLUFSEN

Packing



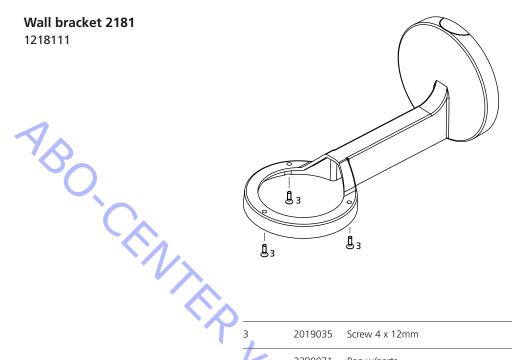
9301	3396308	Foam, set of top and bottom
9302	3917143	Foam foil
9303	3392385	Outer carton

Floor Stand 2180



BANG & OLUFSEN 8.9 Available parts

Wall bracket 2181



3 2019035	Screw 4 x 12mm
3390071 3507400	Bag w/parts Guide
	PITSHINS HILLIAM ONLY

ABOCKENTER WHENRIESENS EILERARONIK

ABO.CENTER LAKENRIKSENS EILEKTRONIK

Bang & Olufsen DK-7600 Struer Denmark

Phone +45 96 84 11 22* Fax +45 97 85 39 11

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