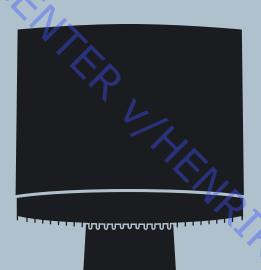
BeoSound 4

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!

BANG & OLUFSEN

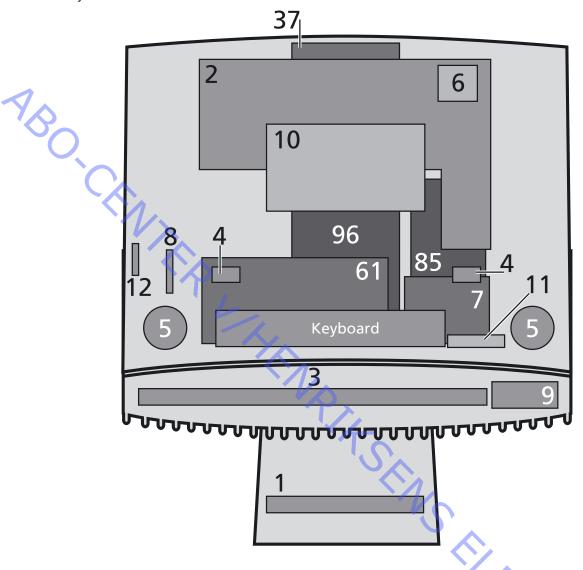
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BANG & OLUFSEN Survey of modules 1.1

Survey of modules



PCB1	Socket
	Master
PCB3	Magic
PCB4	Light
PCB5	-
PCB6	Main microprocessor
PCB7	Codec
PCB8	Tacho
PCB9	Headphone
PCB10	Display
PCB11	SD/MMC card reader
PCB12	Switch
37Module	DAB
PCB61	SMPS
PCB85	FM tuner EU/JP

96Module CD unit

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

- 1. 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.

Press **4** twice and then **STOP** to bring up the PINCODE 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 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

ABO. CAN

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.

- 1. 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. Ins PONA **BANG & OLUFSEN** Fault flow chart 2.1

Fault flow chart

Instructions

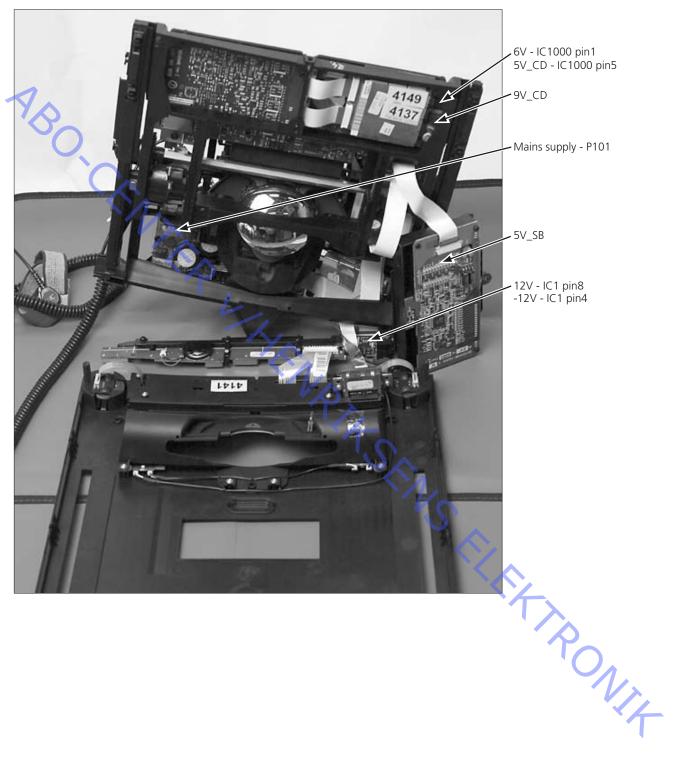
Instructions before trouble shooting in the fault flow chart:

- In the following fault flow chart BeoSound 4 is named BS4.
- ABO. CENTER WHENRIKSENS ELLEKTRONIK

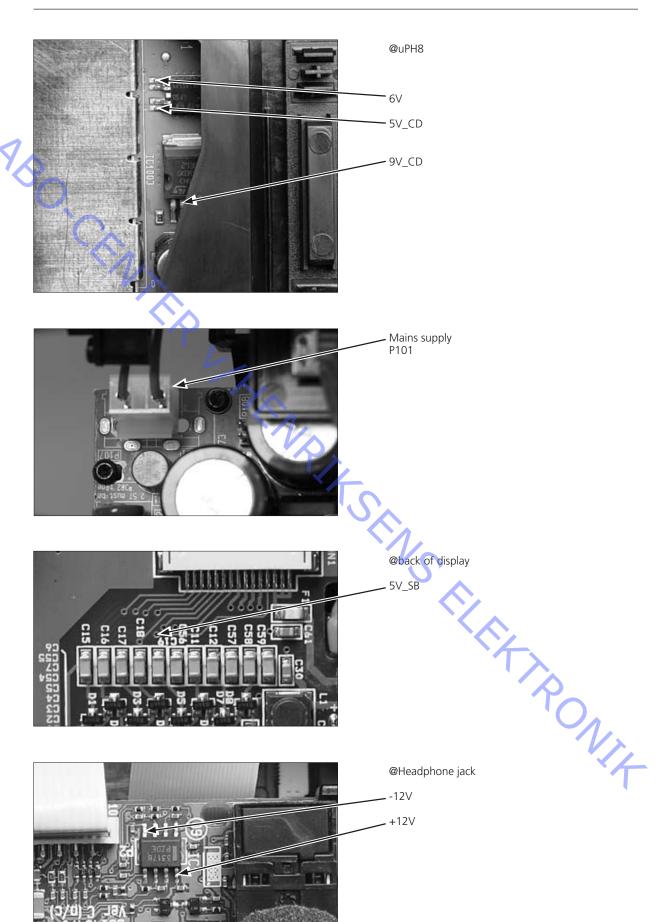


2.2 Fault flow chart BANG & OLUFSEN

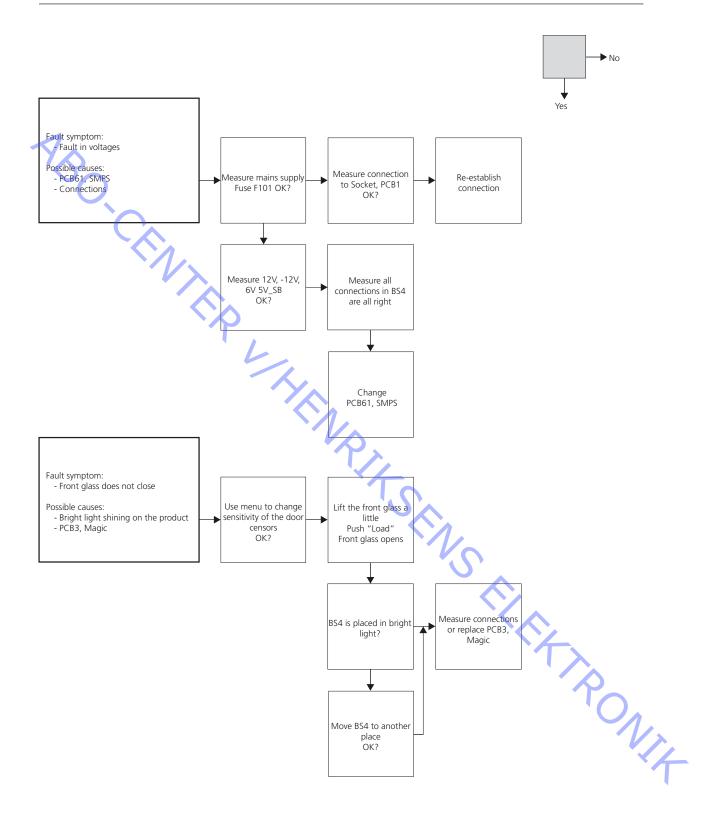
Placement of measuring points

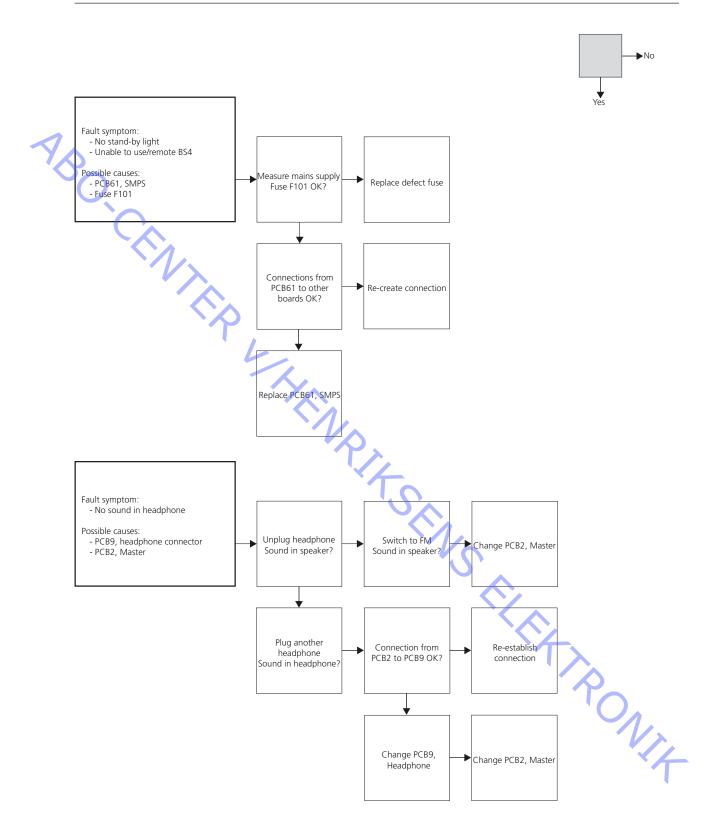


BANG & OLUFSEN Fault flow chart 2.3

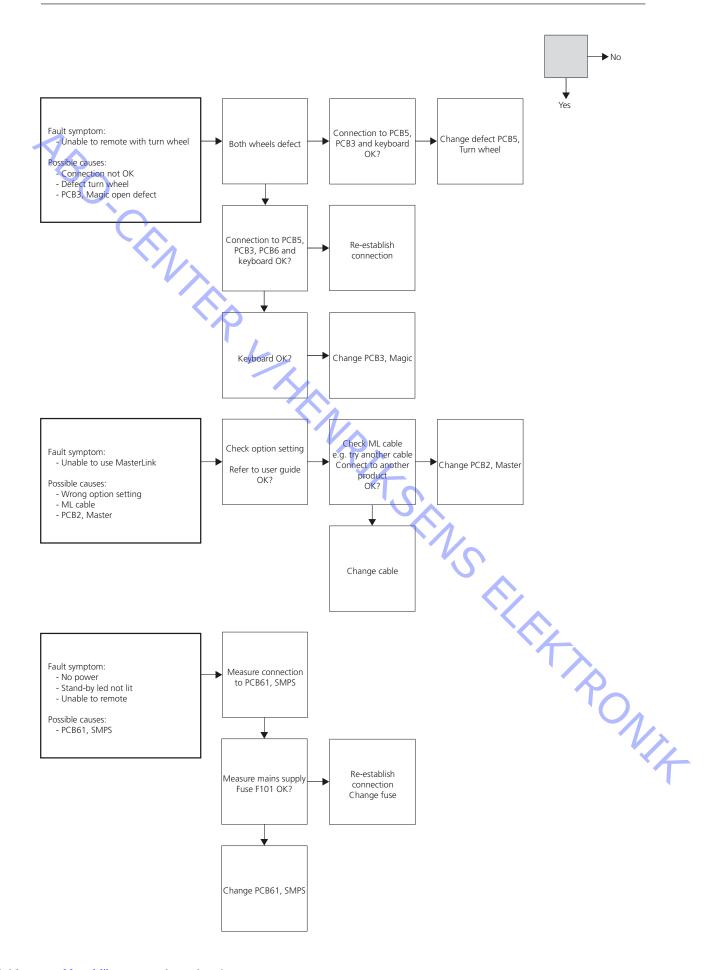


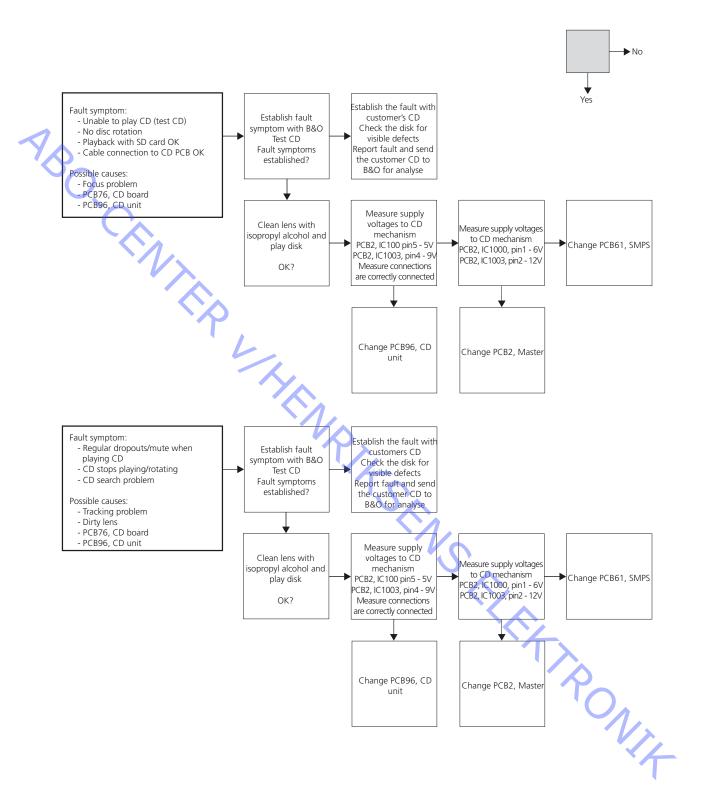
2.4 Fault flow chart BANG & OLUFSEN



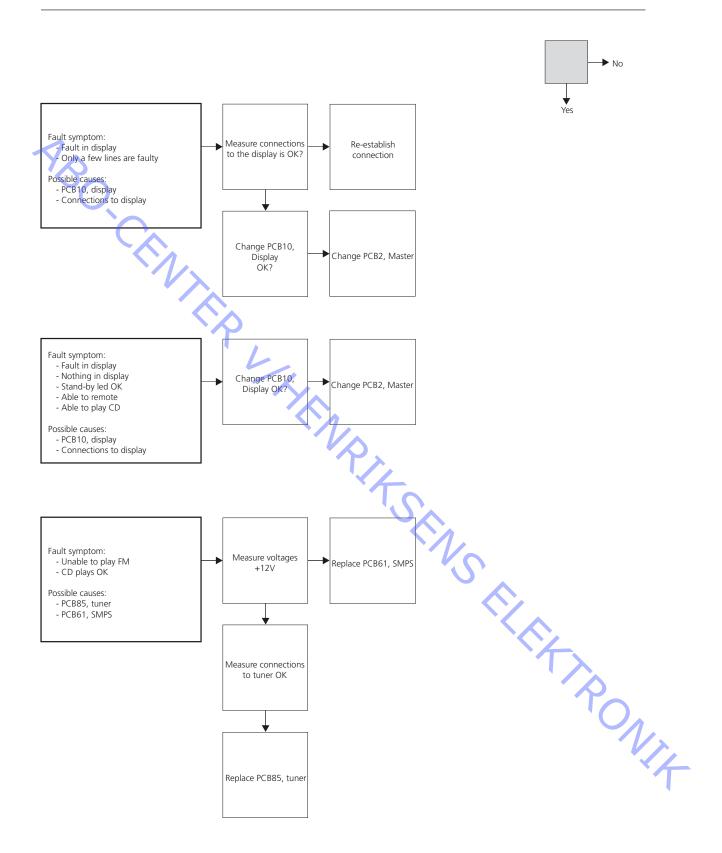


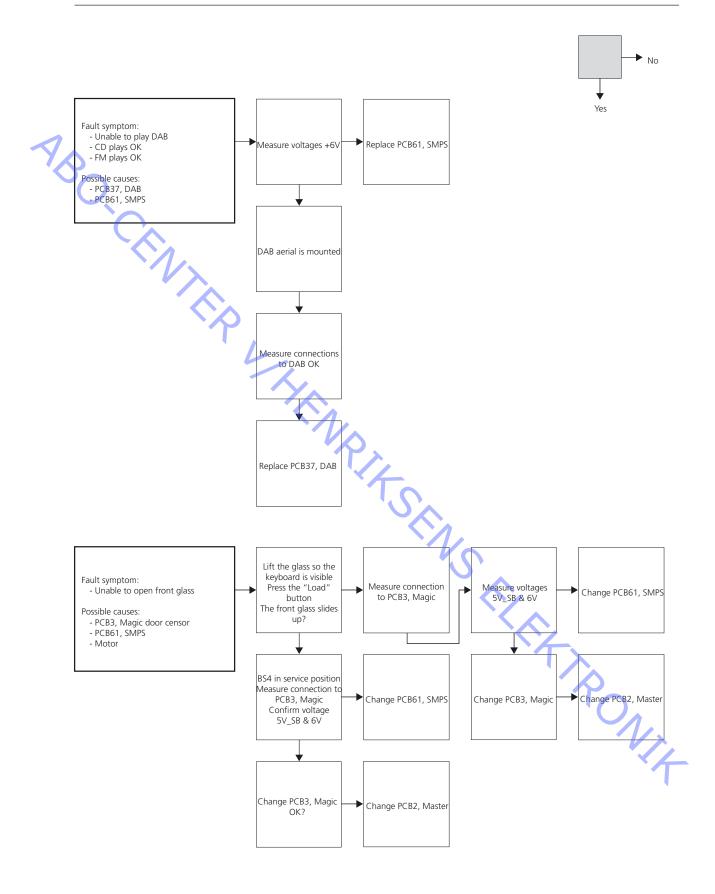
2.6 Fault flow chart BANG & OLUFSEN

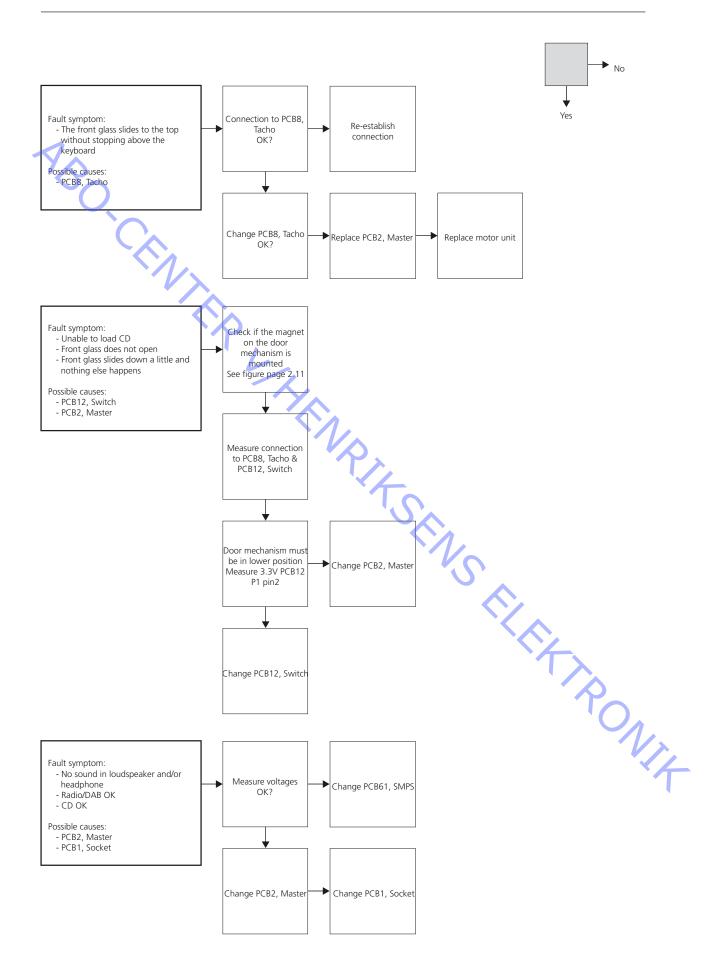




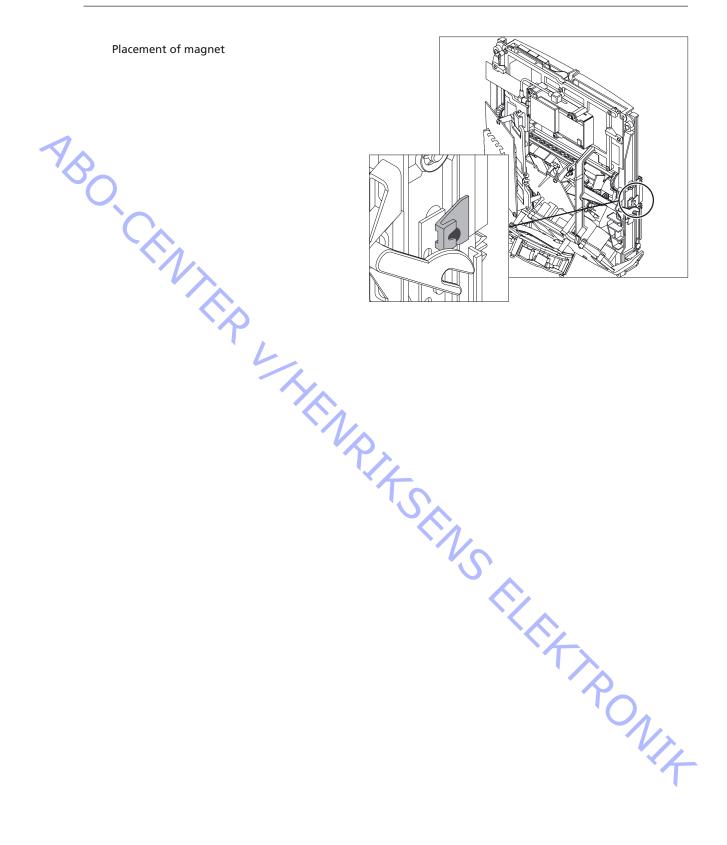
2.8 Fault flow chart BANG & OLUFSEN







BANG & OLUFSEN Fault flow chart 2.11



2.12 BANG & OLUFSEN

ABO CENTER WHENRITSENS ELEKTRONIT



HINDRE STILL TO MIT **BANG & OLUFSEN** Service tips 4.1

Service tips

Service tool

ABO CENTER WHENRIKSENS ELEKTRONIK 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

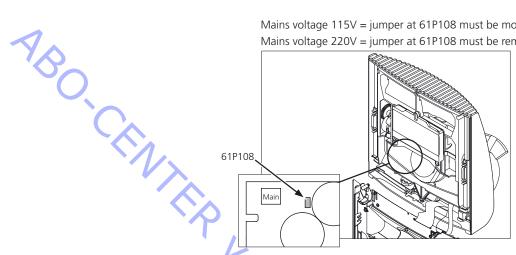
If both PCB6 and the EEPROM 6IC6 need to be replaced it is necessary to have them pre-programmed from Bang & Olufsen with the correct serial no., otherwise they will not work. Please contact Bang & Olufsen.

Replacement of modules

Replacement of the PCB61 (SMPS)

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

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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When exchanging the EEPROM on PCB6, the data from the micro-processor 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 micro-processor.

Replacing of both PCB6 and EEPROM 6IC6

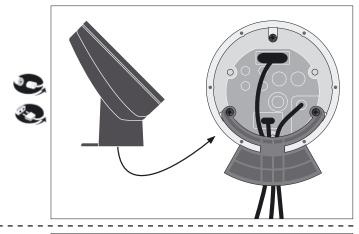
If both PCB6 and the EEPROM 6IC6 need to be replaced it is necessary to have them pre-programmed from Bang & Olufsen with the correct serial no., otherwise they will not work. Please contact Bang & Olufsen.

Disassembly overview

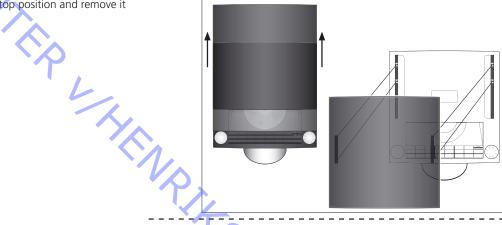


PCB	Module name	Page	
1	Socket	5.5	1
2	Master	5.6	1
3	Magic	5.8	1
4	Light	5.9	1
5	Turn wheel	5.10	1
6	Main microprocessor	5.7	1
7	Codec	5.11	1
8	Tacho	5.12	1
9	Headphone	5.13	1
10	Display	5.14	1
11	SD/MMC card reader	5.15	1
12	Switch	5.16	1
37Module	DAB	5.20	1
61	SMPS	5.17	1
85	FM tuner	5.18	1
96Module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

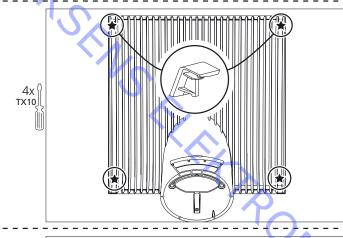
- Remove all cables



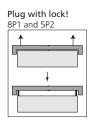
- Push front glass to top position and remove it

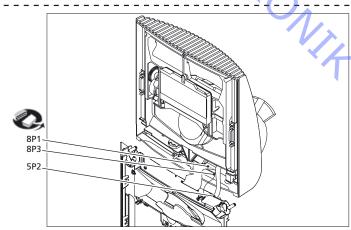


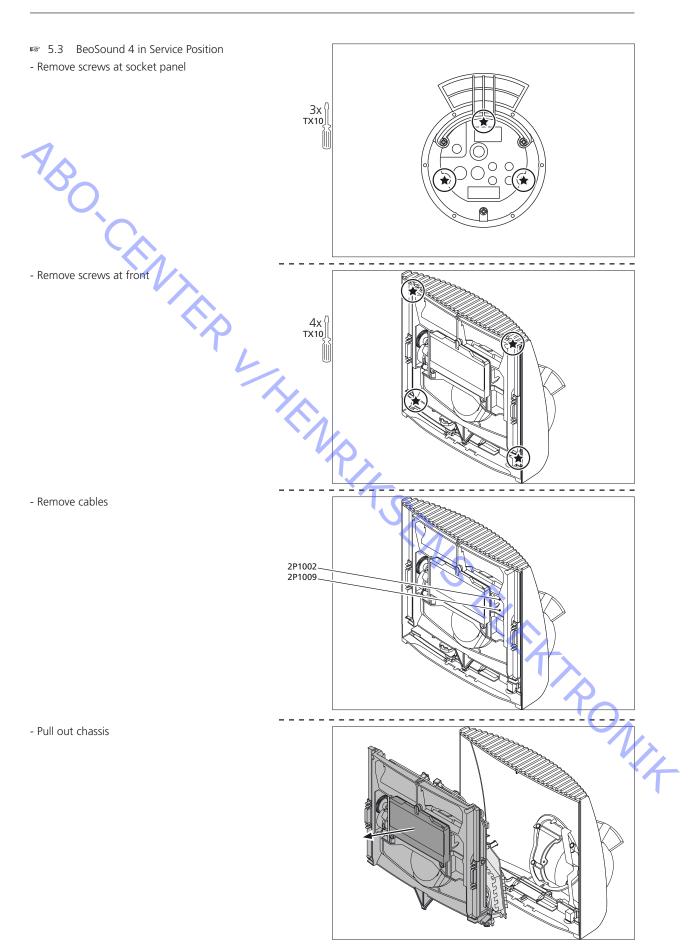
- Remove screw covers at top - and all screws



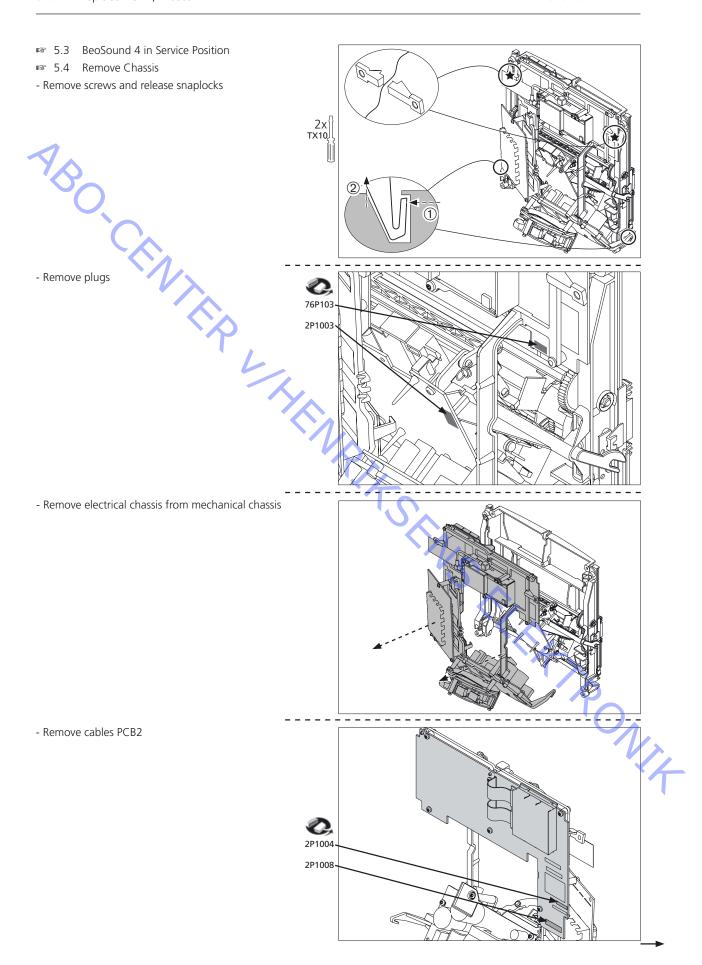
- Remove cables

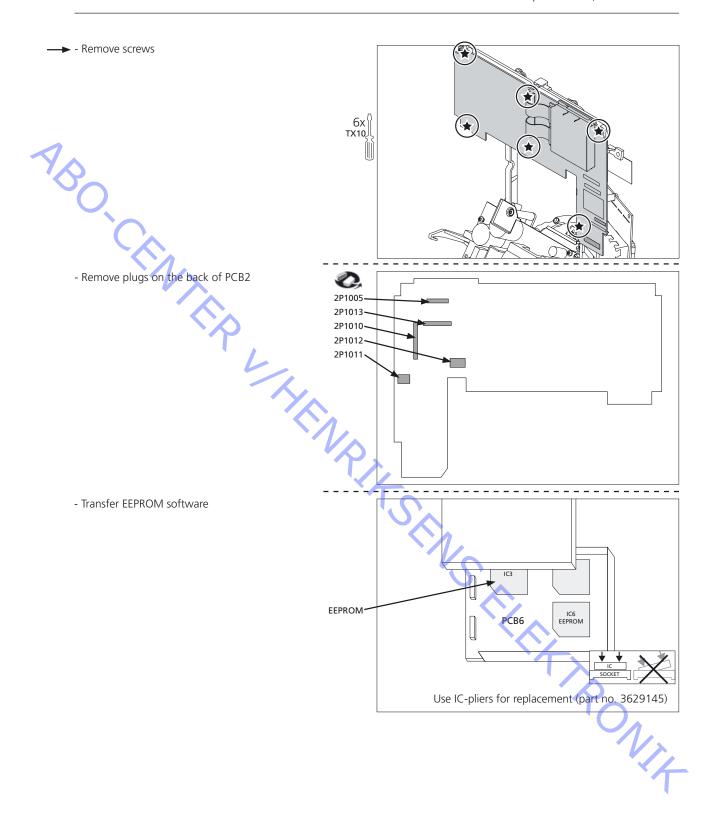


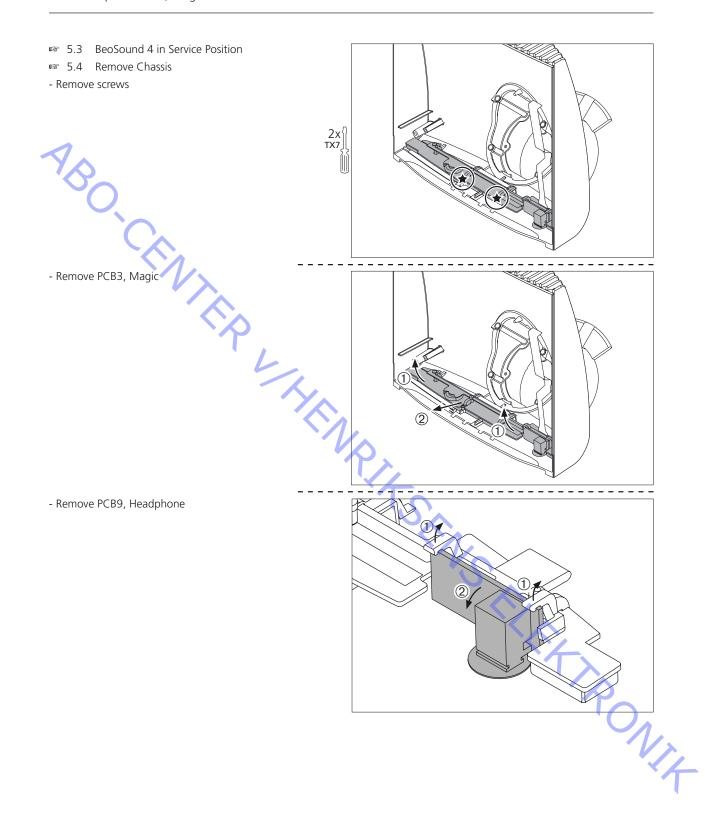




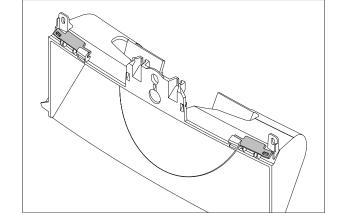
■ 5.3 BeoSound 4 in Service Position - Remove plugs 85P100-7P101 - Pull off socket cover Snap-locks! - Remove plugs - Remove screws GND!





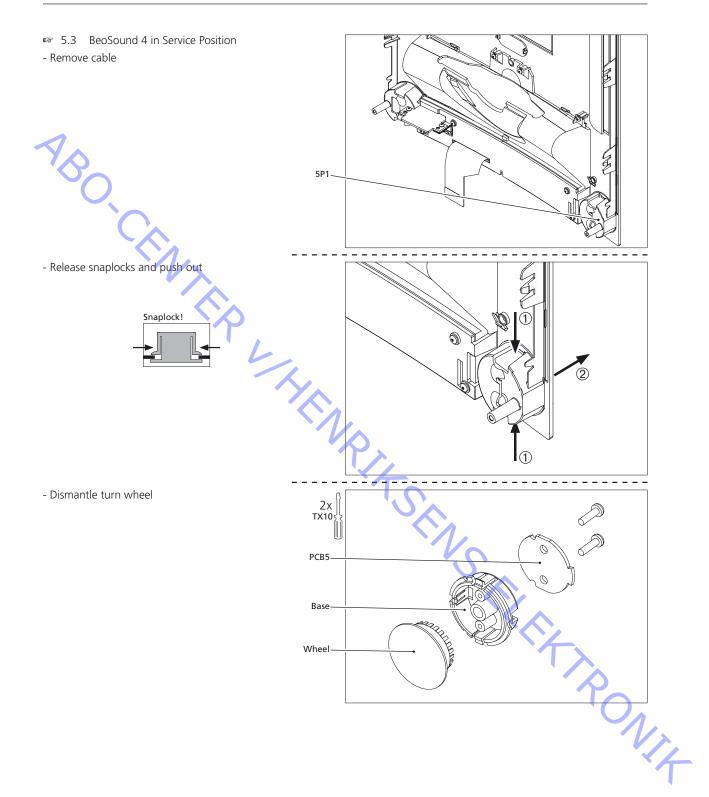


- 5.3 BeoSound 4 in Service Position
- 5.27 Remove finger niche
- Remove PCB4, Light

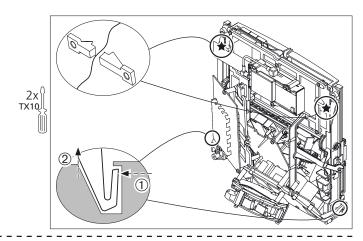


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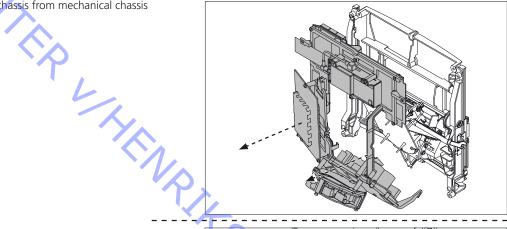




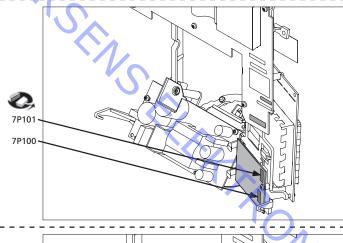
- 5.3 BeoSound 4 in Service Position
- Remove screws and release snaplock



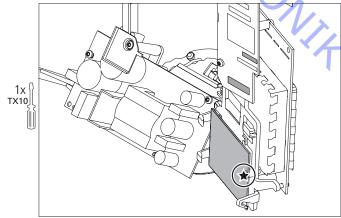
- Remove electrical chassis from mechanical chassis

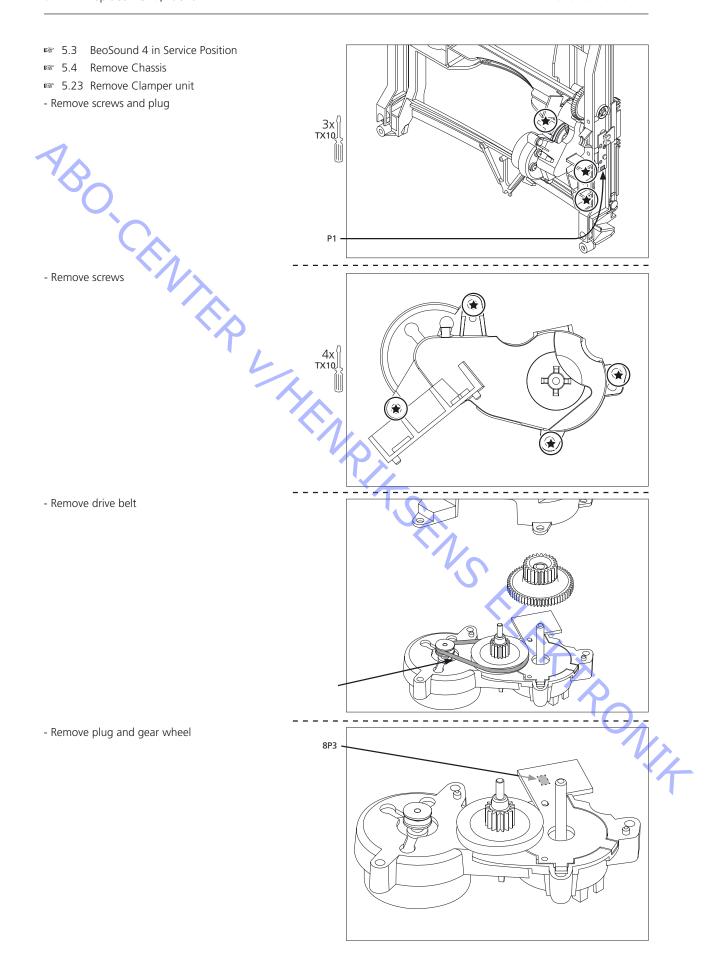


- Remove plugs

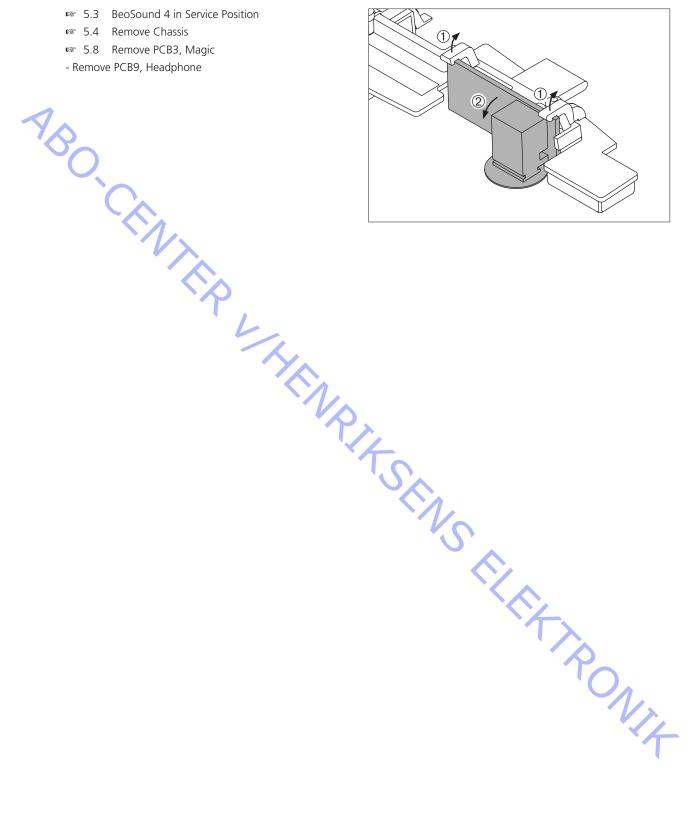


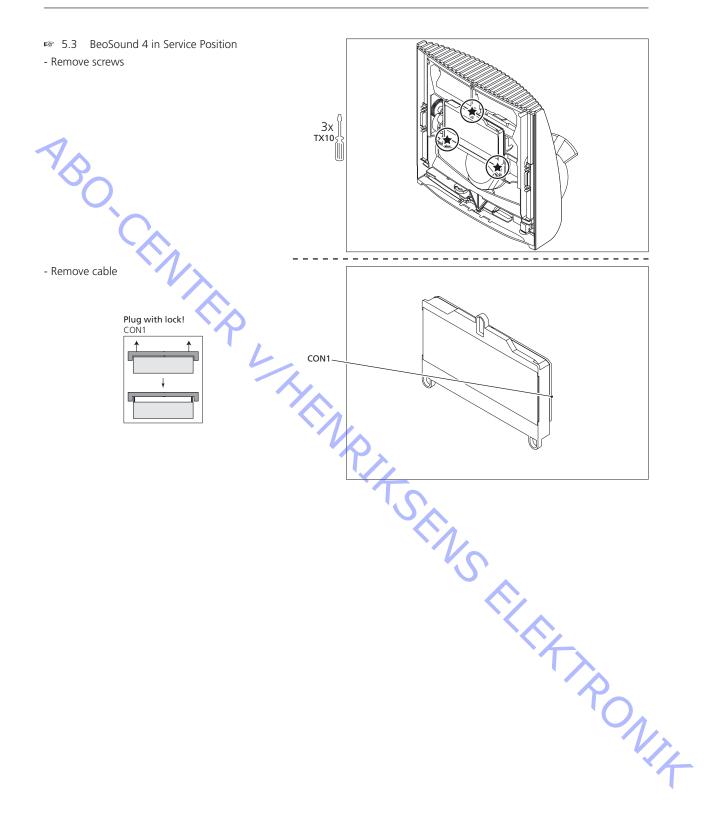
- Remove screw

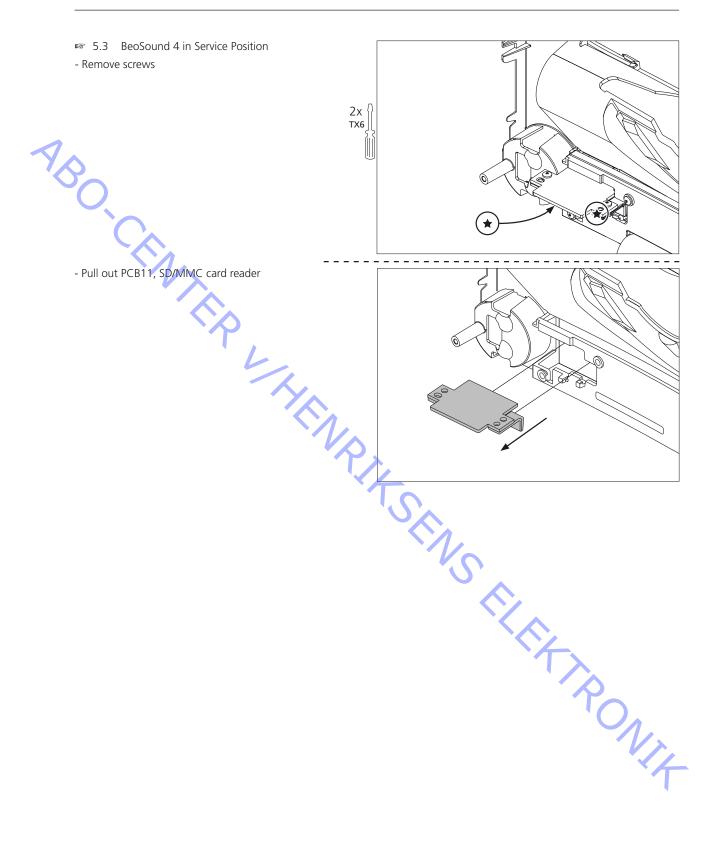




- 5.3 BeoSound 4 in Service Position
- 5.8 Remove PCB3, Magic
- Remove PCB9, Headphone

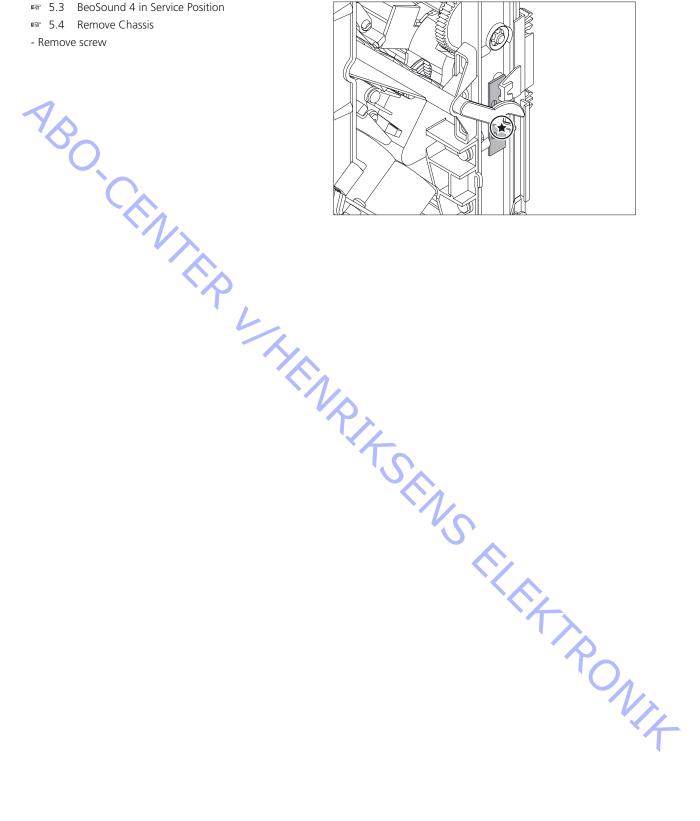




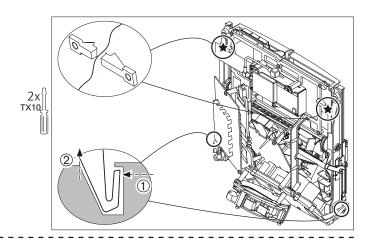


■ 5.3 BeoSound 4 in Service Position

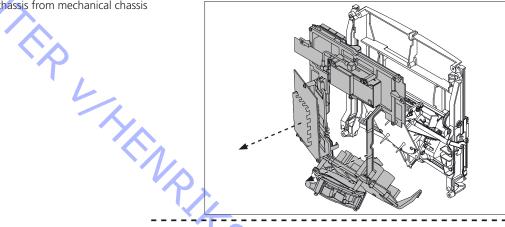
- Remove screw



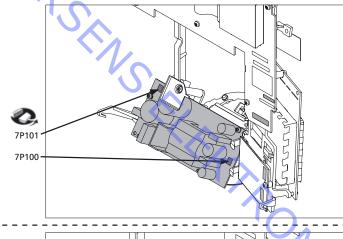
- 5.3 BeoSound 4 in Service Position
- 5.4 Remove Chassis
- Remove screws and release snaplock



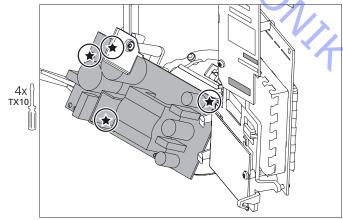
- Remove electrical chassis from mechanical chassis

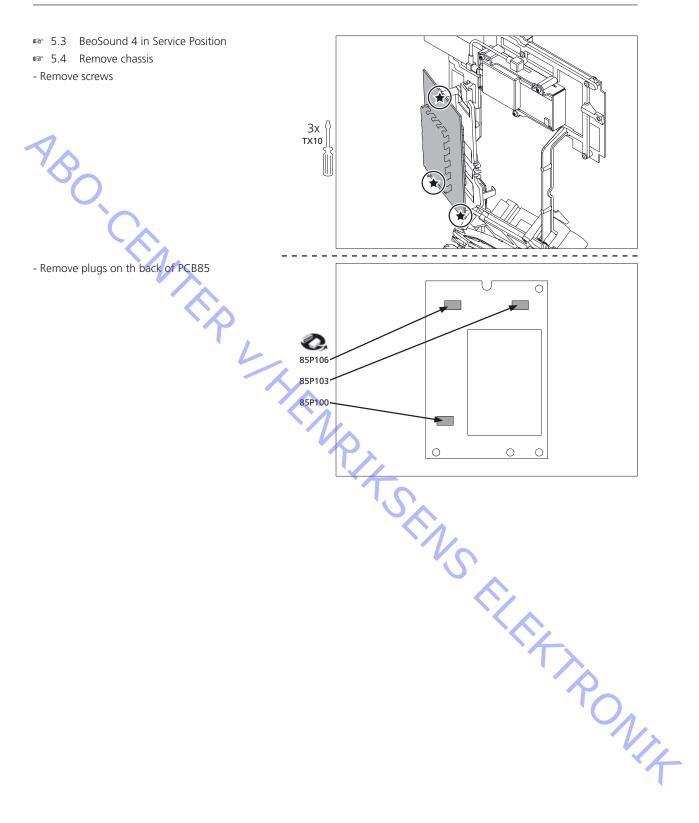


- Remove plugs

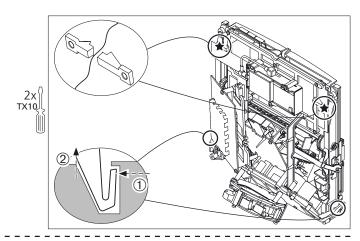


- Remove screws

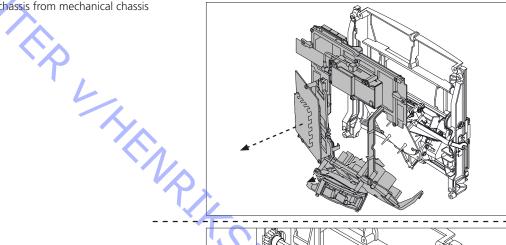




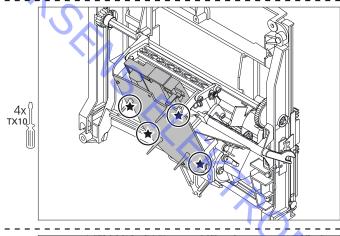
- 5.3 BeoSound 4 in Service Position
- Remove screws and release snaplock



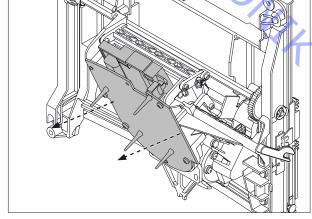
- Remove electrical chassis from mechanical chassis

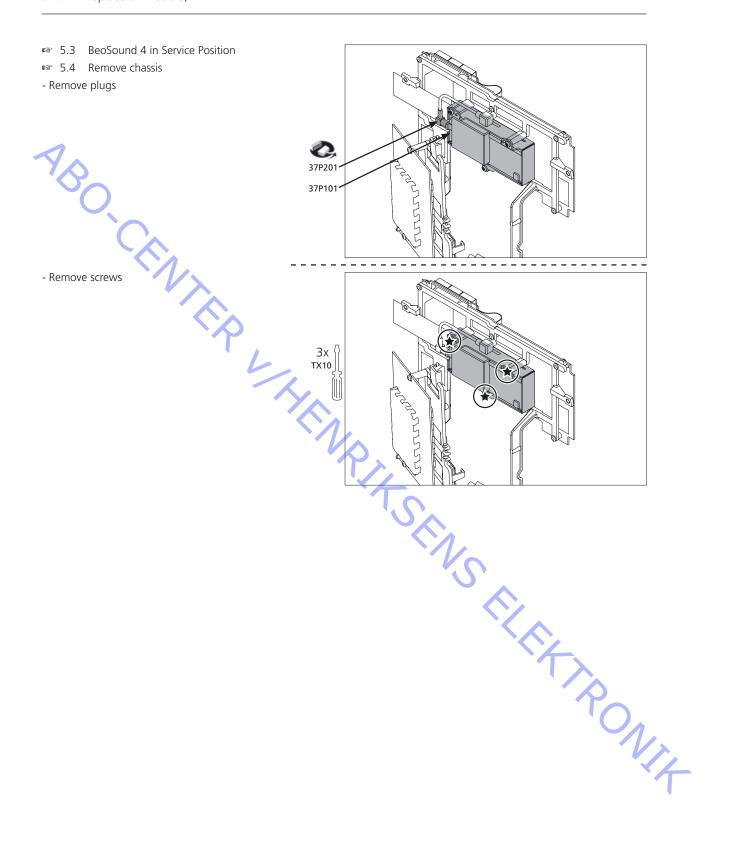


- Remove screws



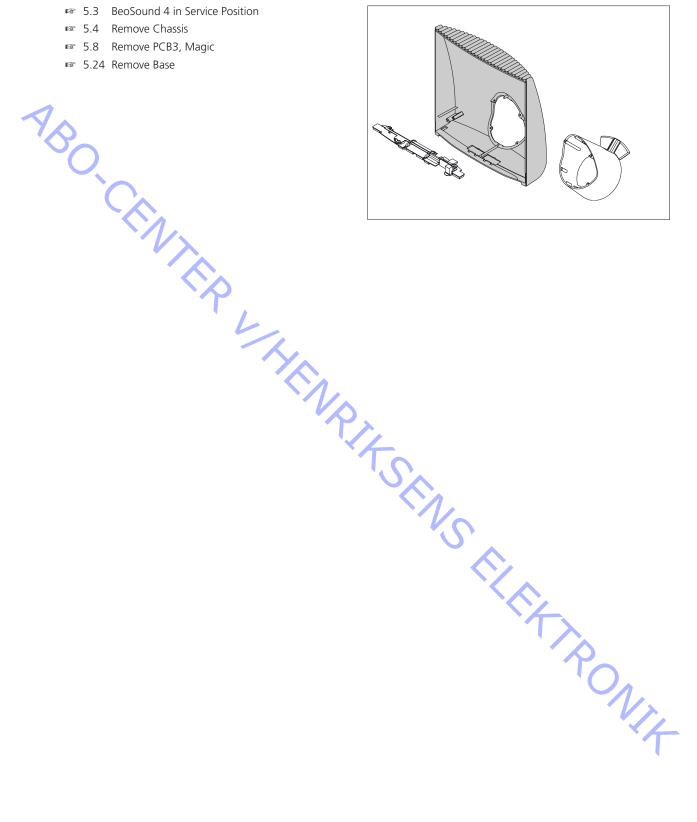
- Pull off CD unit





BANG & OLUFSEN

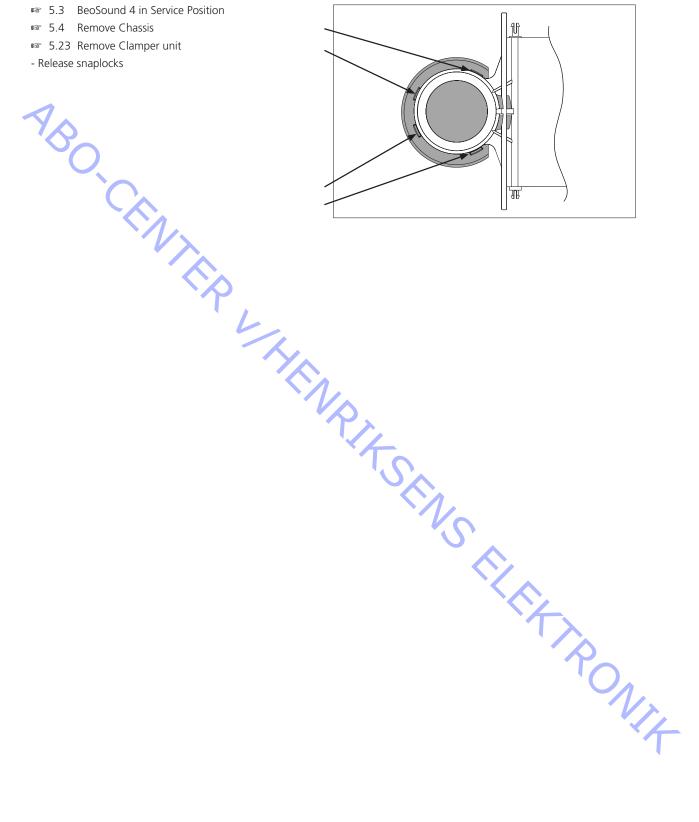
- 5.3 BeoSound 4 in Service Position
- 5.8 Remove PCB3, Magic



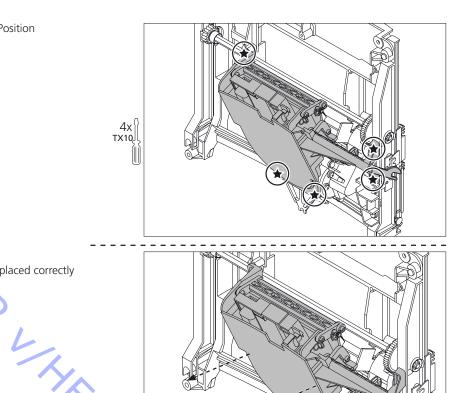
Downloaded from www.Manualslib.com manuals search engine

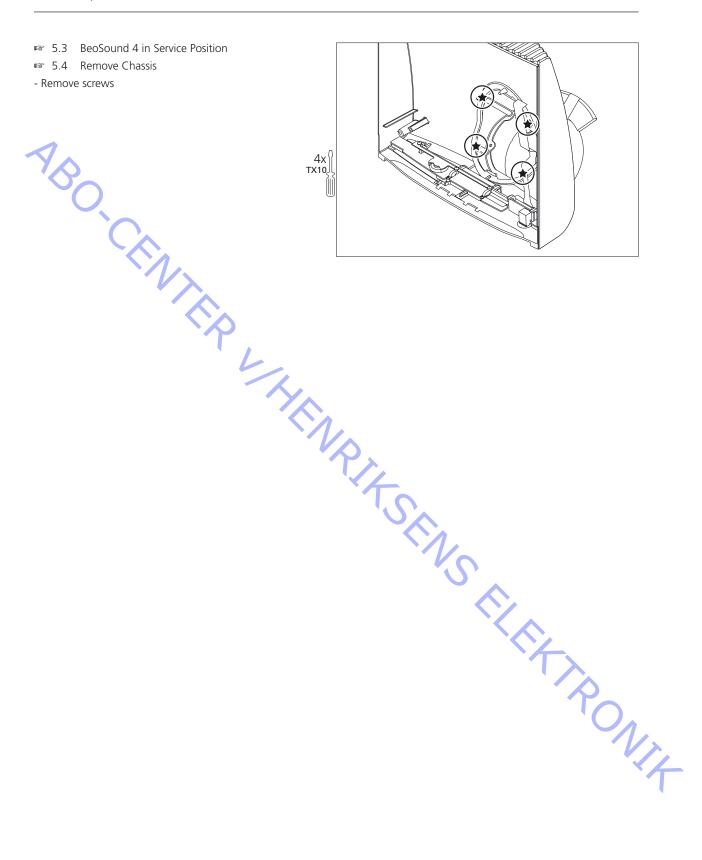
- 5.3 BeoSound 4 in Service Position

- Release snaplocks

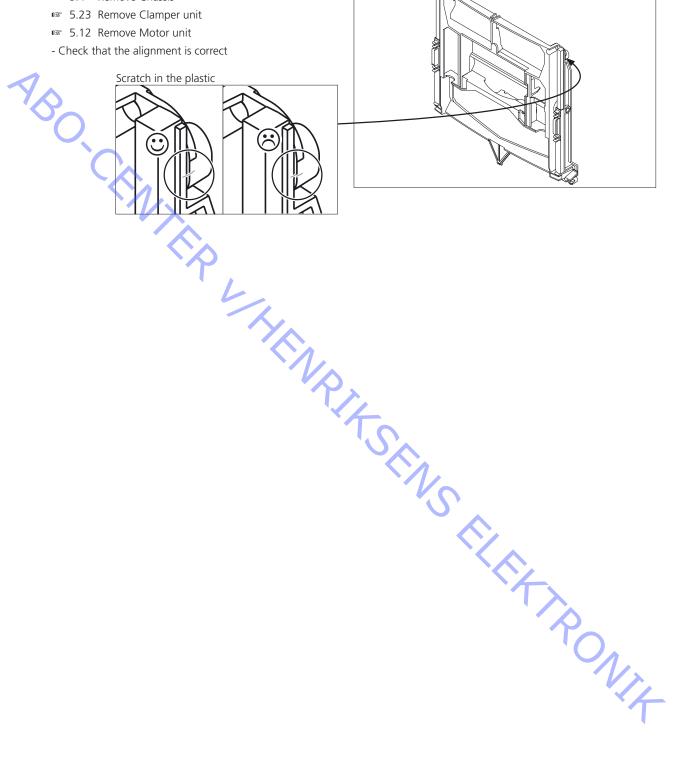


- 5.3 BeoSound 4 in Service Position
- 5.19 Remove CD unit
- Remove screws

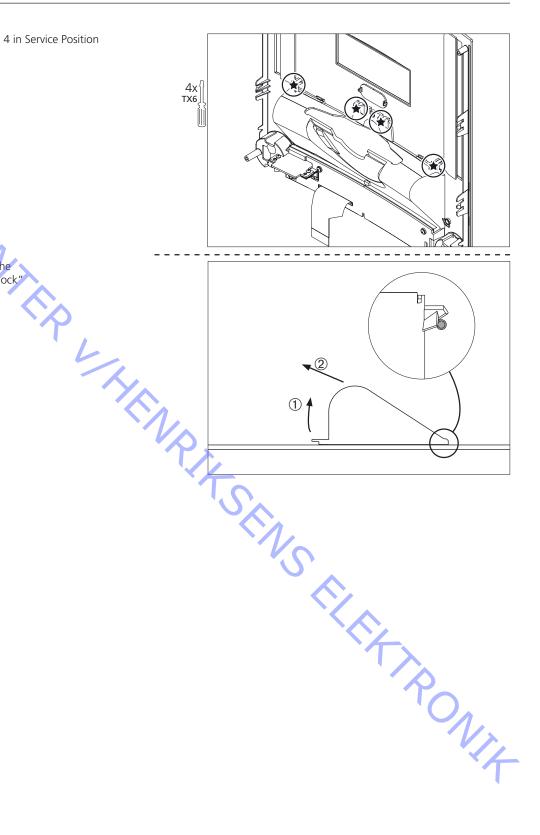




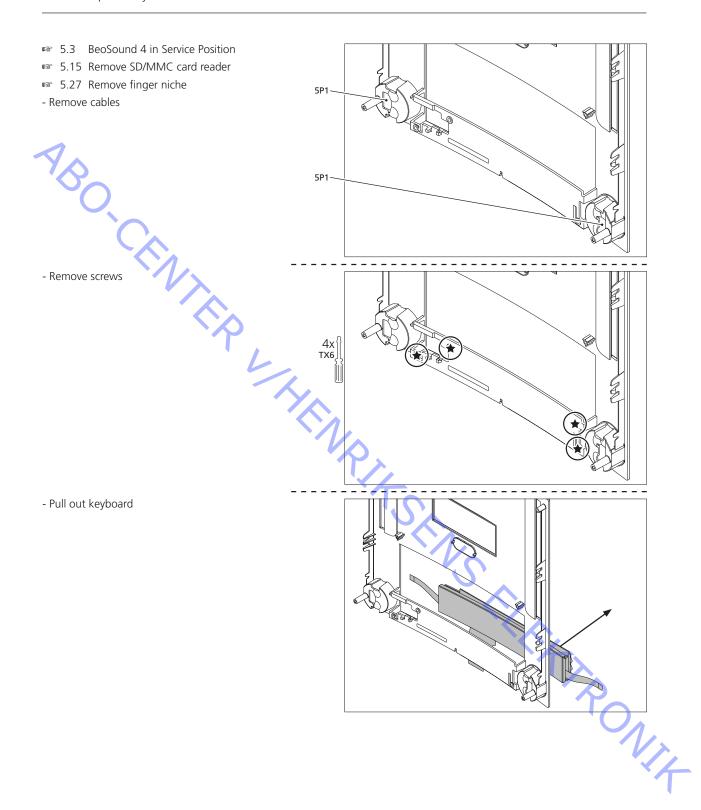
- 5.3 BeoSound 4 in Service Position

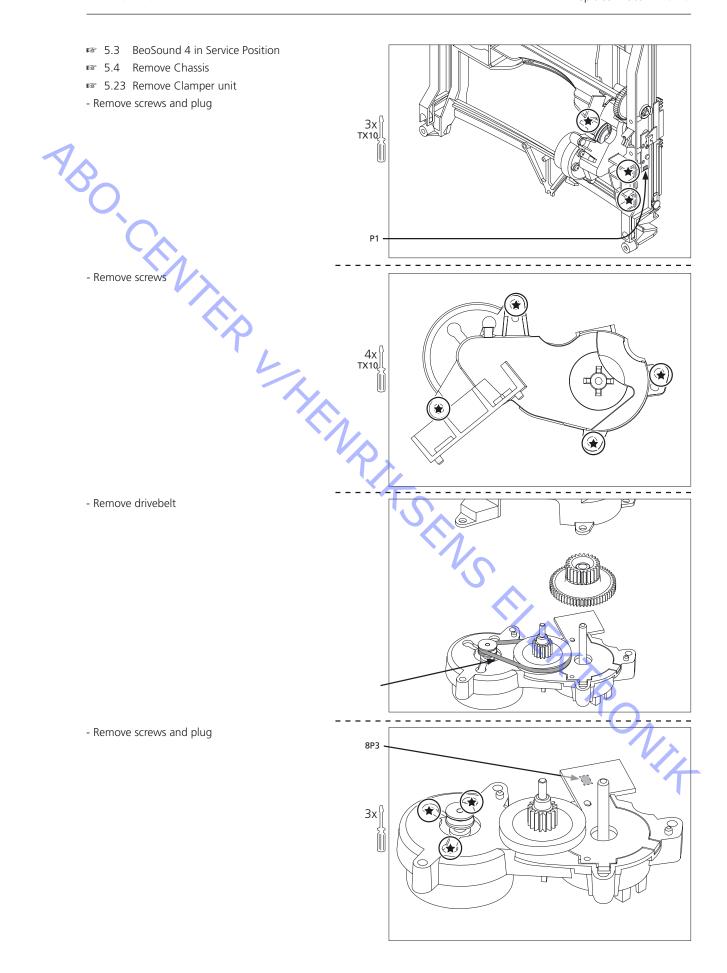


- 5.3 BeoSound 4 in Service Position
- Remove screws









5.30 BANG & OLUFSEN

ABO CHNTER WHENRIKSENS ELEKTRONIK

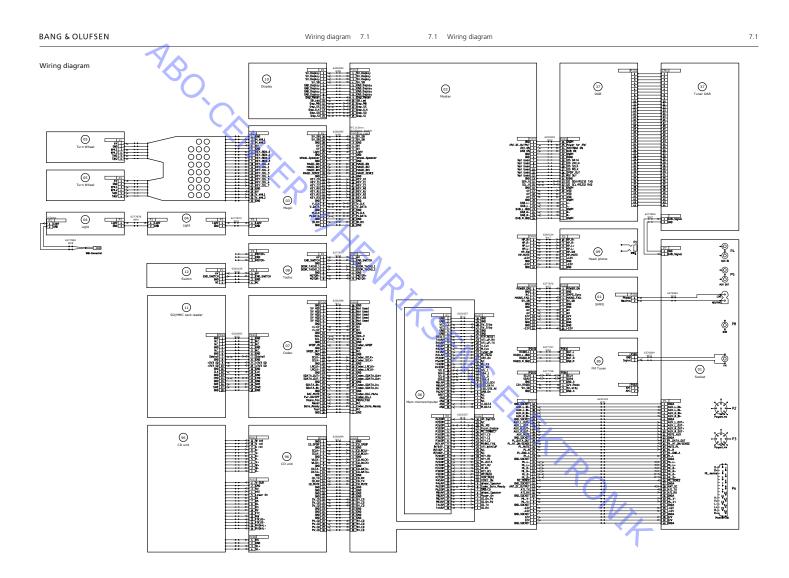
Specification guidelines for service use	BeoSound 4
With FM and RDS	Type 2851 EU 230V
With TWI did ND3	Type 2852 GB 230V
	Type 2853 US 120V
	Type 2854 JP 100V
	Type 2855 AUS 240V
	**
	31
	Type 2858 KOR 230V
	Type 2859 LAT 230V
	Type 2860 CHK 230V
Van de lifia e angli a e	
reamplifier section	40.40/ IIIF
ntermod. distortion	≤0.1%, IHF
requency:	2011- 2011-
AUX in	20Hz – 20kHz
ignal to Noise ratio:	. 00 lp
AUX, A-weighted, volume 80	≥90dB, typ. 97dB
Channel separation	≥50dB, typ. 63dB
Channel unbalance	≤±1dB
uner, FM section	
M range – EU/US	87.5 – 108MHz
M range for type 2854 – Japan	76 – 90MHz
Jsable sensitivity mono	≤12dBf
OdB quieting sensitivity mono	≤20dBf
ignal-to-noise ratio mono	≥68dB, typ. 70dB
ignal-to-noise ratio stereo	/ ≥62dB, typ. 65dB
requency response mono	30Hz – 15kHz, ±2dB
requency response Stereo	30Hz – 15kHz, ±2dB
RDS	PS-Name, RadioText, Clock
	V_
uner, DAB section	
leceiving bands	174 – 240MHz (band 3)
	1452 – 1492MHz (band L)
Sensitivity (BER = 10e-4)	-95dBm
Adjacent channel rejection (BER =10e-4)	35dB
Out of band rejection (BER = 10e-4)	45dB
iignal/noise ration (1kHz)	≥95dB
requency response 15 – 20000Hz	±1dB
Decoding	Up to 256kbit/s
iampling	Half and full rate
R operation	Beo4 recommended
D player	
Playback	CD-DA, CD-R/RW, (Audio format only)
	es singes remarkany
estdisc	SBC 444A (part no. 3634064)
estaise	SBC 429
TD disations	12cm (5"), 8cm (3")
	20Hz – 20kHz ±1dB
	ZOTIZ – ZOKTIZ I TOD
requency response	20112 - 201112 1 1010
requency response ignal/noise ratio:	
requency response ignal/noise ratio: inear, below 80kHz	≥90dB / 76dB with volume 80
requency response ignal/noise ratio: inear, below 80kHz JNW	≥90dB / 76dB with volume 80 ≥98dB / 90dB with volume 80
requency response ignal/noise ratio: inear, below 80kHz	≥90dB / 76dB with volume 80
requency response ignal/noise ratio: inear, below 80kHz INW A-Weighted	≥90dB / 76dB with volume 80 ≥98dB / 90dB with volume 80
requency response ignal/noise ratio: inear, below 80kHz JNW A-Weighted	≥90dB / 76dB with volume 80 ≥98dB / 90dB with volume 80 ≥103dB / 97dB with volume 80
ED, disc types frequency response fignal/noise ratio: inear, below 80kHz JNW A-Weighted Channel separation: kHz	≥90dB / 76dB with volume 80 ≥98dB / 90dB with volume 80
requency response ignal/noise ratio: inear, below 80kHz JNW A-Weighted Channel separation:	≥90dB / 76dB with volume 80 ≥98dB / 90dB with volume 80 ≥103dB / 97dB with volume 80
requency response ignal/noise ratio: inear, below 80kHz INW N-Weighted Channel separation: kHz	≥90dB / 76dB with volume 80 ≥98dB / 90dB with volume 80 ≥103dB / 97dB with volume 80

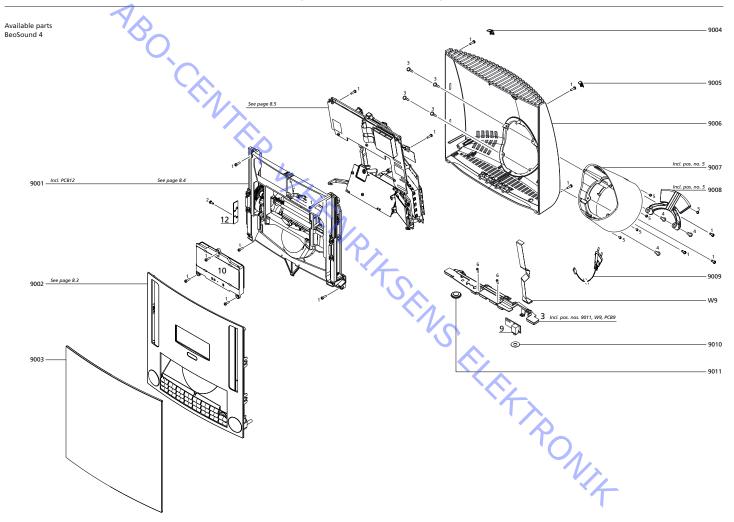
Dynamic range (1kHz)	≥92dB		
Channel unbalance (1kHz)			
HD+Noise:			
1kHz, 0 dBFS, volume 76		5dB with volume 76	
201			
D Player/recorder torage media	Cocuro Die	gital cards (SD)	
torage media			
\(\frac{\chi}{\chi}\)	MultiMediaCard (MMC) Or 100% SD SanDisk compatible		
Capacity	All capacity		
Audio Codec playback	MP3 format: Sampling frequencies: 8, 11.025, 12, 16, 22.05, 24, 3		
	44.1 and		
		or variable bit rates: 8, 16, 24, 32, 40, 48, 56, 64, 80, 96,	
		160, 192, 256 and 320Kbps	
		npling frequencies: 8, 11.025, 16, 22.050, 32, 44.1 and 48kF	
Audio codec recording format	MP3 form	54, 80, 96, 128, 160 and 192Kbps	
Addio codec recording format		Bkbit/s in stereo	
		ample frequency	
· //		mple resolution	
,		- Pr	
estdisc: SBC429, Bitrate: 128kbit/sec, Codec: MPEG 1 Layer 3			
requency response:			
Recorded from CD, fs = 44.1kHz	20Hz – 15	kHz ±1dB	
· 1/ · · · · ·			
Signal/noise ratio: INEAR, below 80kHz	≥76dB		
JNW	≥70dB ≥90dB		
A-Weighted	≥97dB		
· · · · · · · · · · · · · · · · · · ·	257 05		
Dimensions			
N x H x D	280 x 310 x 240mm / 11.0 x 12.2 x 9.4 in		
Veight	4kg		
Cabinet finish	Smoke coloured glass		
Power consumption	Stby. 1W, typical 12W		
Assessavies			
Accessories	Typo 2190		
Vall brackets	Type 2180 Type 2181		
Turn brachets	., pc 2.0.		
Connections			
Master Link x 1	Pin 1	Data0.25V	
П	Pin 2	Data+ +0.25V	
7,	Pin 3	ML sense 0 – 5V	
01 -	Pin 4-8	NC	
o 3 -	Pin 9	ATI/Tx	
•4	Pin 10	ATI/Rx	
0 6	Pin 11 Pin 12	Supply voltage -7V > -15V, stby3V > -15V Supply voltage 7V >15V, stby. 3V >15V	
•8 -	Pin 13	Audio L-	
09 - 010 -	1111 13	1V bal., Rin 2.2M Ω Rout 75 Ω	
○ - ○ 2 -	Pin 14	Audio L+	
o 3 -		1V bal., Rin 2.2M Ω Rout 75 Ω	
0 4 - 0 5-	Pin 15	Audio R-	
•16 -		1V bal., Rin 2.2Μ Ω Rout 75 Ω	
~	Pin 16	Audio R+	
		1V bal., Rin 2.2M Ω Rout 75 Ω	

	tput x 1	AUX in L	R Phono 2V RMS 22 – 47kΩ
·		AUX out	
Power Link Front & R	Roar	Pin 1	PL ON = >2.5V, OFF = <0.5V
OWEI LIIK HOIR & N		Pin 2	Signal GND
	5, , , 4	Pin 3	Audio L out 0V to 2V RMS
		Pin 4	PL speaker ON = >2.5V, OFF = <0.5V
	$3 \Rightarrow 0 \circ 0 \leftarrow 1$	Pin 5	Audio R out 0V to 2V RMS
	3 7 7	Pin 6	Data: High >3.5V. Low <0.8V
		Pin 7	Data GND
	8	Pin 8	Not used
\bigcirc		FIII O	Not used
Headphones x 1			
	1 3 22 LEFT		el experienced should be the same using Form 1 headphor
	3 RIGHT	and BeoL	ab 4000 speakers
	1 ±		
Outnut level -OdRES	, volume 72, RL 33 Ω	Max 1.4V	RMS
Signal/Noise ratio. A	-weighted, -0dBFS, vol. 72		thout clipping
		_32GD W	
M Aerial x 1		75Ω impe	edance
DAB aerial x 1		75Ω impe	edance
Mains		Cable inc	
			4V, 50 – 60Hz
	Phase (°)		1, 2852, 2855, 2858, 2859, 2860
	Earth [•]		V, 50 – 60 Hz
		Type: 285	3, 2854, 2857
			
		10	
		'''	
Subject to change v	without notice		///_
			70
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6.4 BANG & OLUFSEN

ABOCCENTER VALENRIASENS ELLEKTRONIA





9001

9002

BeoSound 4



2011048

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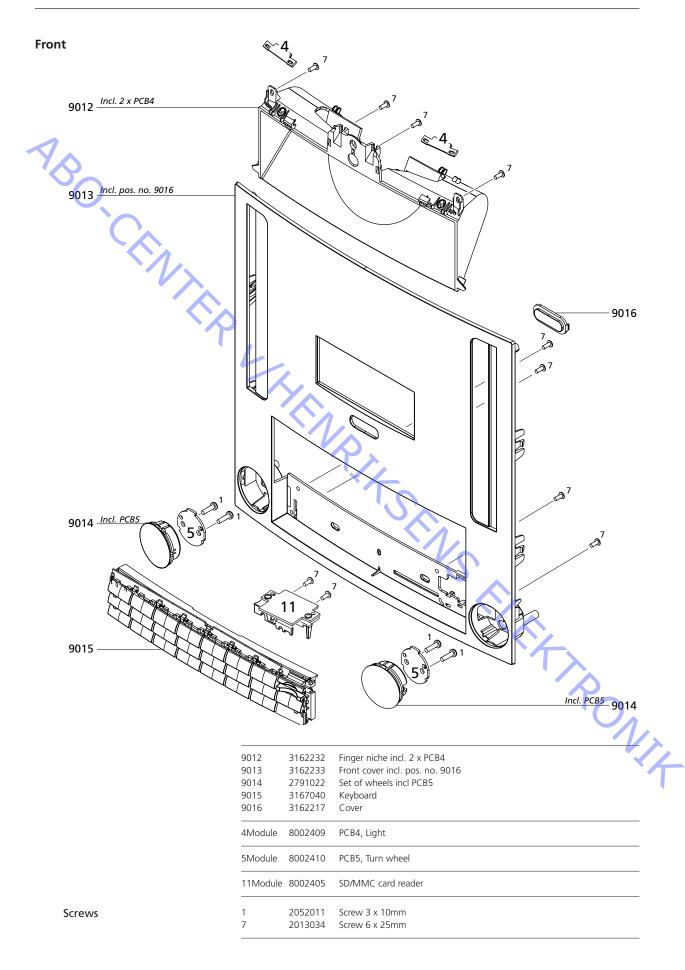
3110018

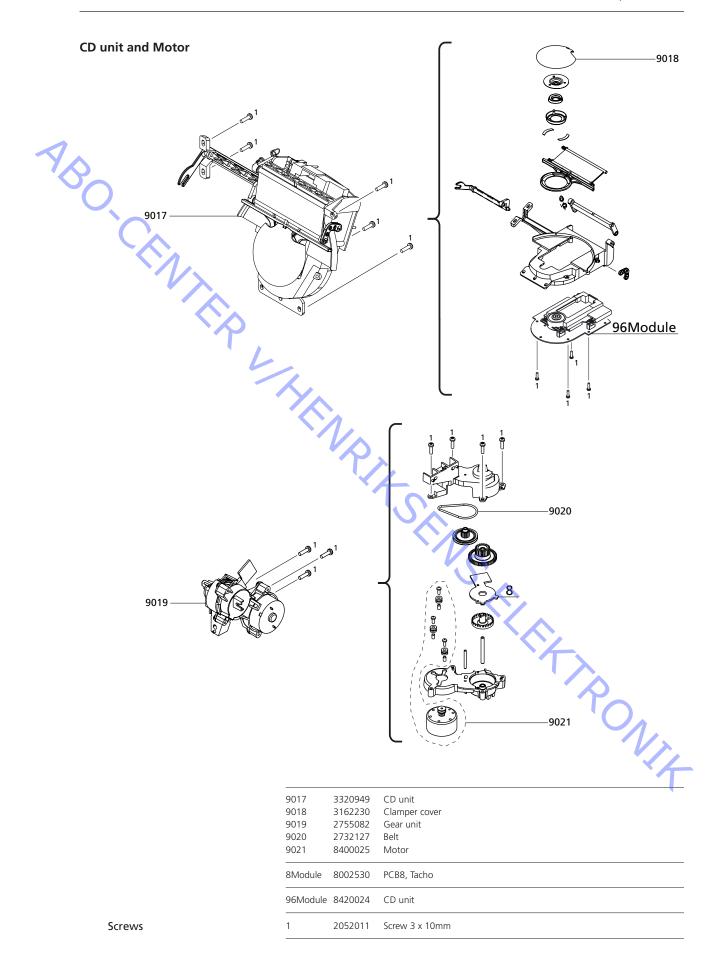
3162231

Front

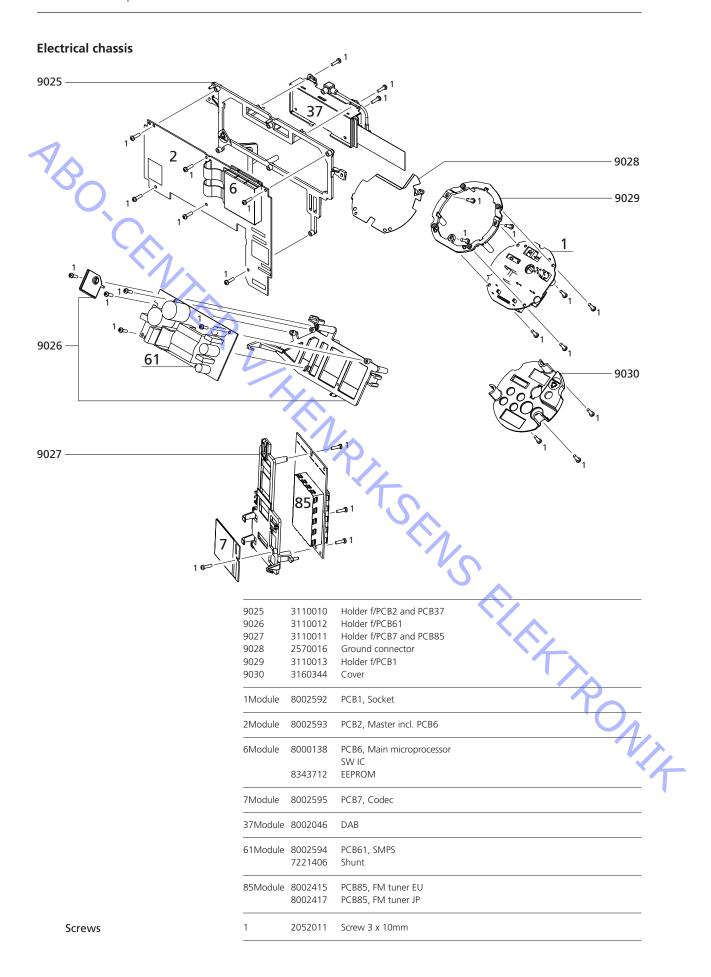
Movable mechanics incl. PCB12

8.3 Available parts BANG & OLUFSEN

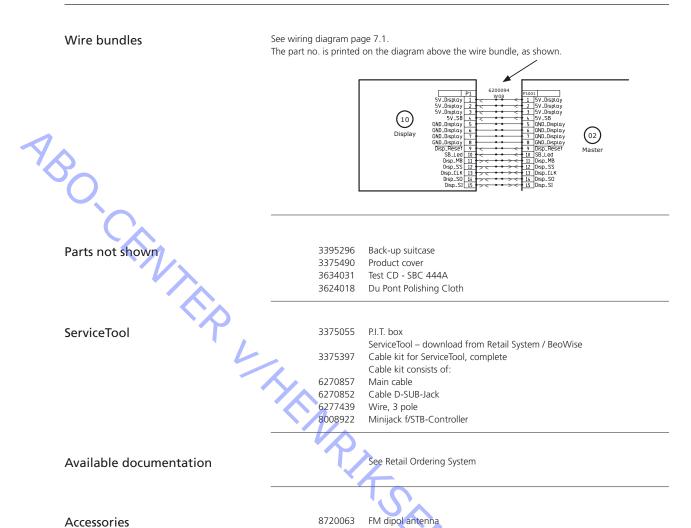




8.5 Available parts BANG & OLUFSEN



5 ONA

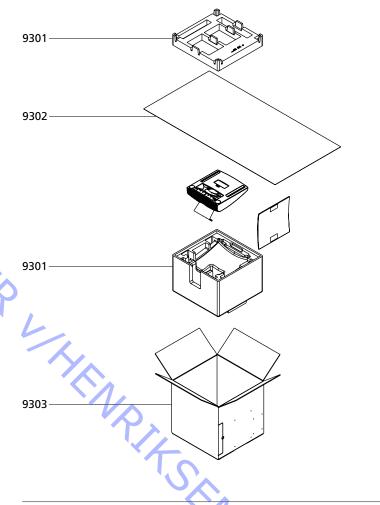


8720044

DAB antenna

8.7 Available parts BANG & OLUFSEN

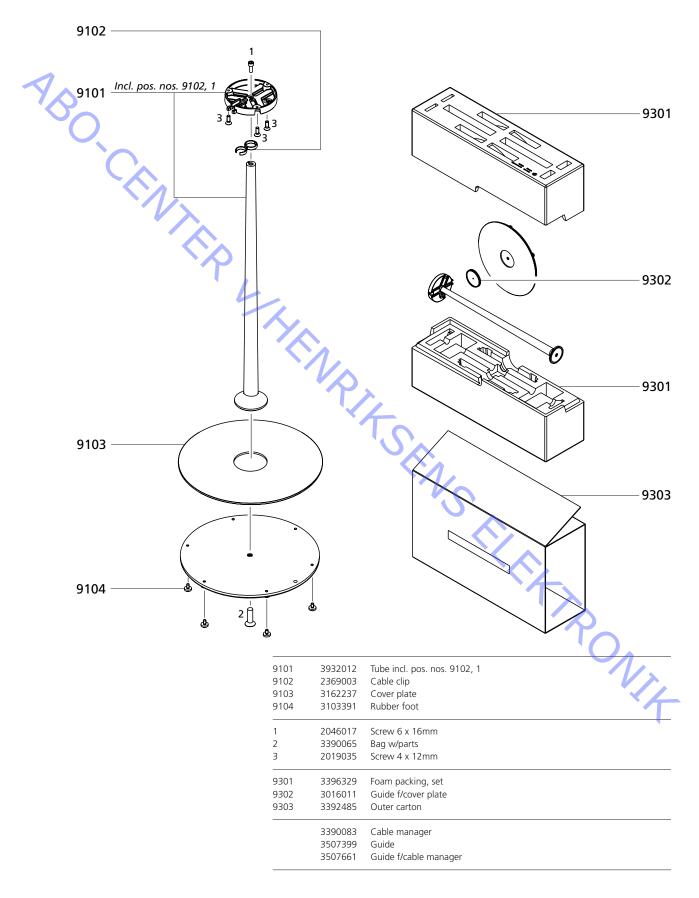
Packing



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

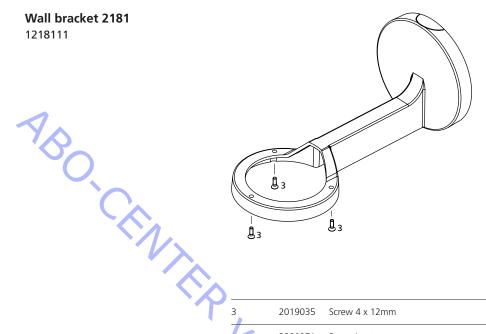
Floor Stand 2180

1218011



BANG & OLUFSEN 8.9 Available parts

Wall bracket 2181 1218111



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ABO-CENTER VIHENRIKSENS EILEKTRONIK

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