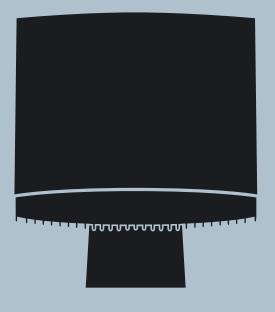
# BeoSound 4

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



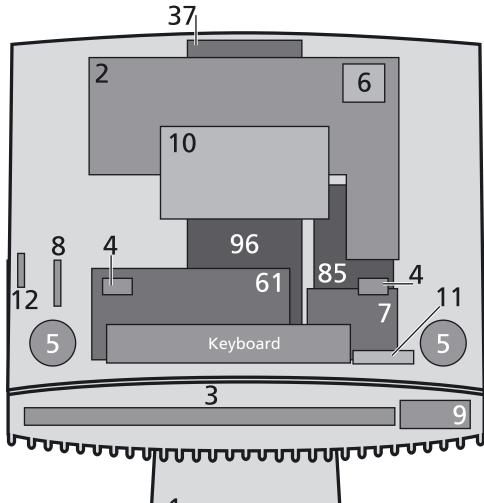
This Service Manual must be returned with the defective parts/back-up suitcase !



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# Survey of modules





PCB1	Socket
PCB2	Master
PCB3	Magic
PCB4	Light
PCB5	Turn wheel
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

## How to service

Converting mains supply voltage	e
	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.

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
-	gives you 12 hours service time
Entering the Service code	
	I. When the product asks for PIN-CODE press and hold
	<ol> <li>The Master code menu appears.</li> <li>Enter the Service code: 1 1 1 1 1.</li> </ol>
Important notice concerning Serv	
	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 custo	
	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:
-	
	Standby time.
-	the PIN-code is activated or deactivated.

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

Activate the PIN-code	
	Select the SETUP menu. Press ← 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 than15-30 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	
In the Fils-code has been longotten	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 <b>4</b> down to bring up the MASTERCODE menu. Enter the Master-code and press <b>GO</b> . 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.

#### 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

	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. 3.	Switch to SD play mode. Switch to FM radio and make a tuning.
3. 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.

## Fault flow chart

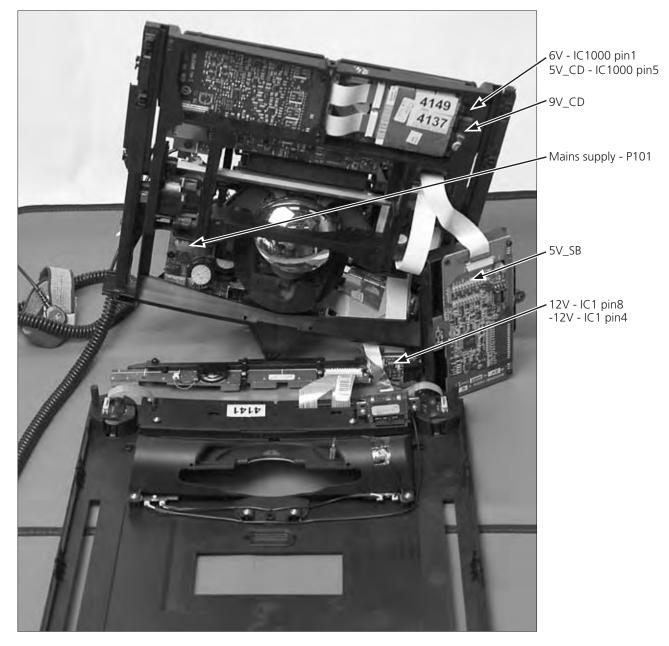
Instructions

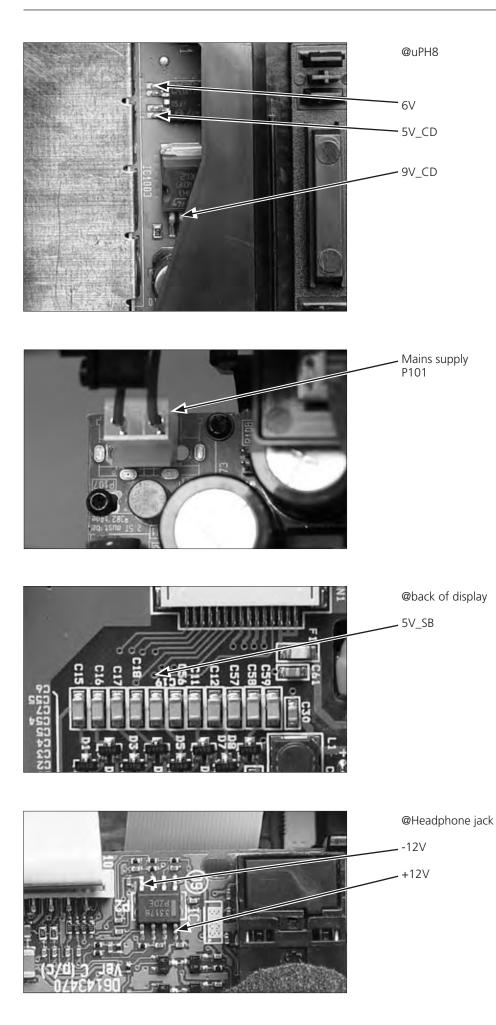
Instructions before trouble shooting in the fault flow chart:

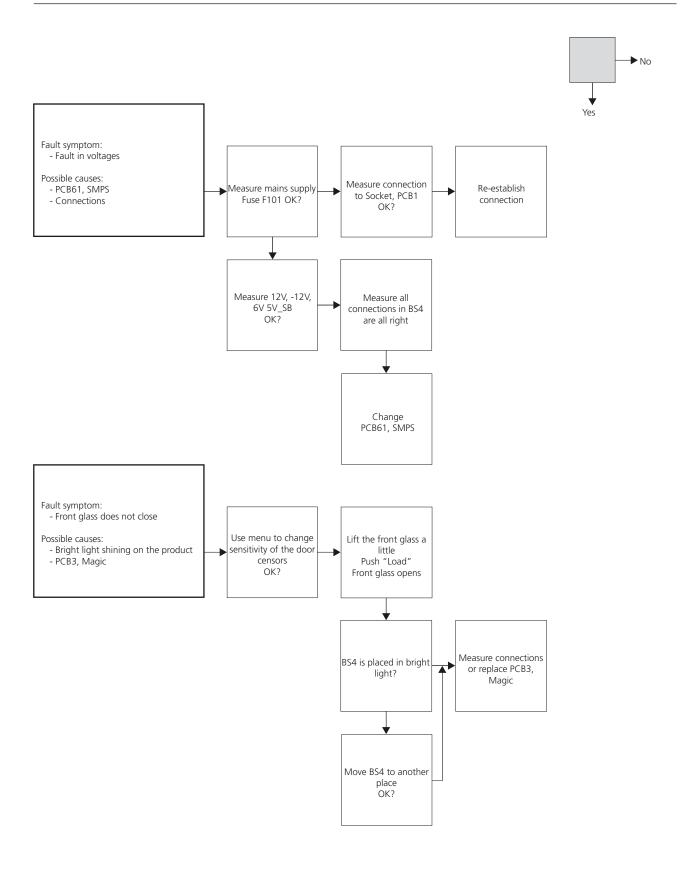
- In the following fault flow chart BeoSound 4 is named BS4.
- Never connect or disconnect a socket, when the power is turned on. Disconnect the mains supply and wait minimum 30 seconds for the electrolytic capacitors to discharge.
- When measuring voltages BS4 must be in CD mode,

When fault finding in CD use Bang & Olufsens test CD 3634031 (SBC444A).

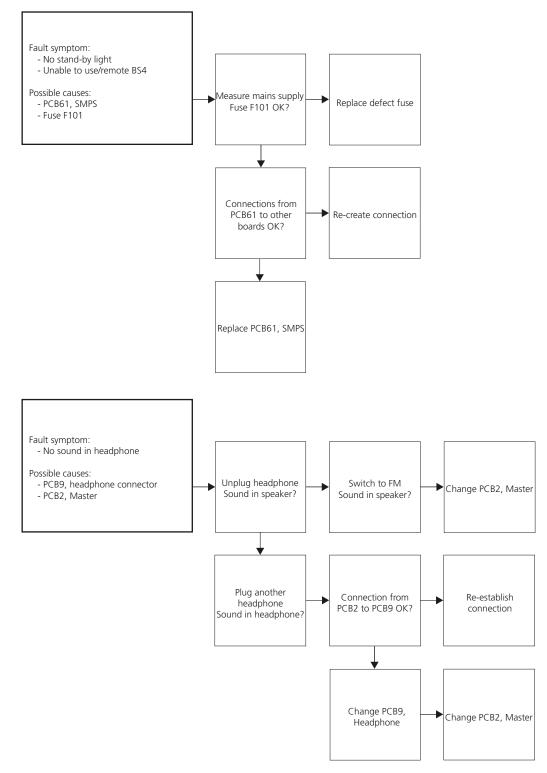
## Placement of measuring points

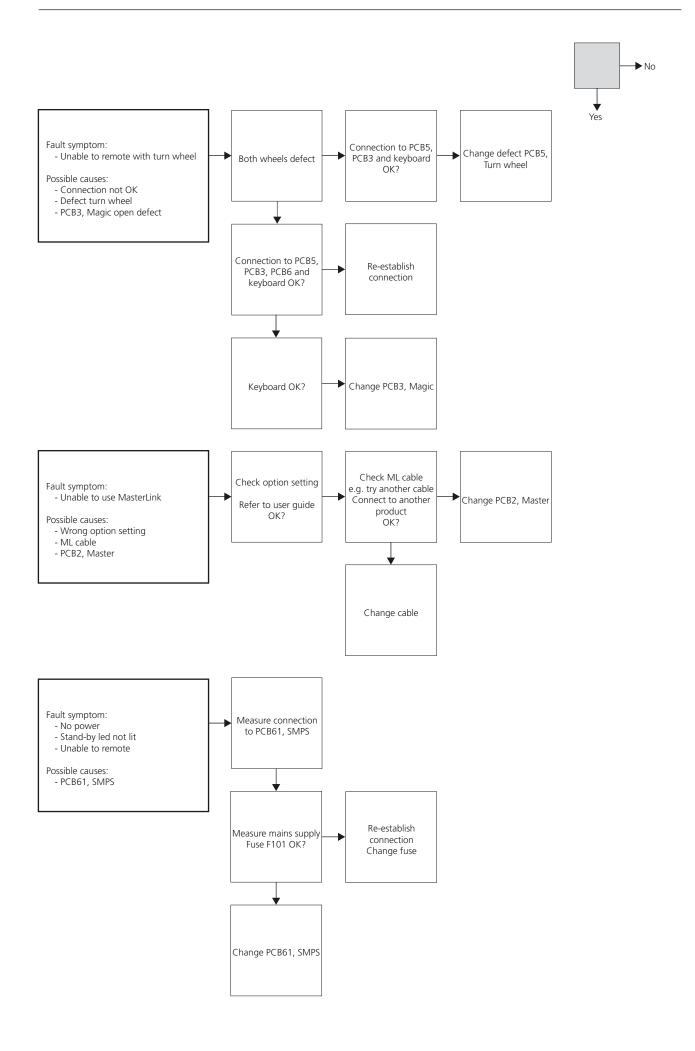


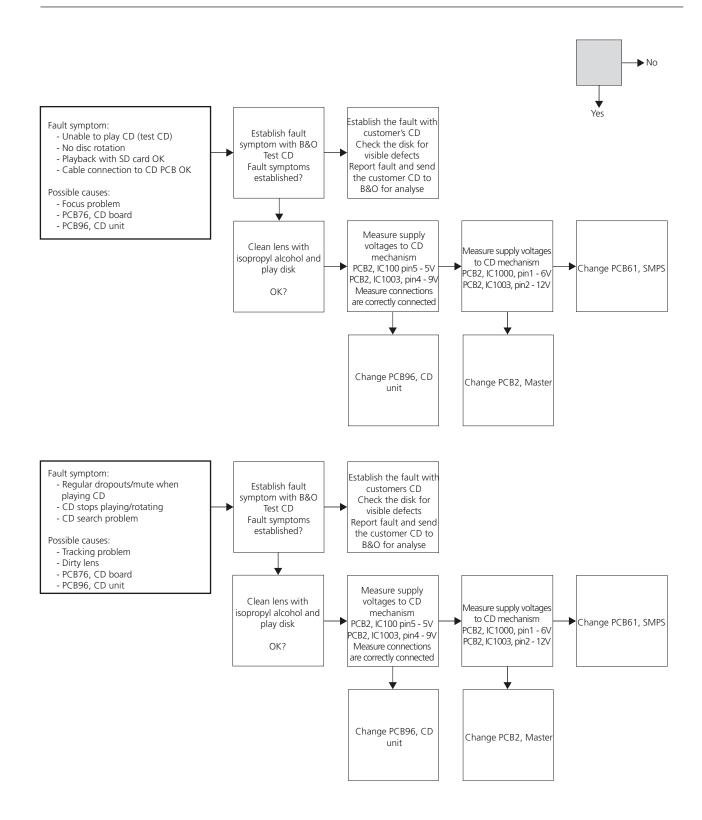


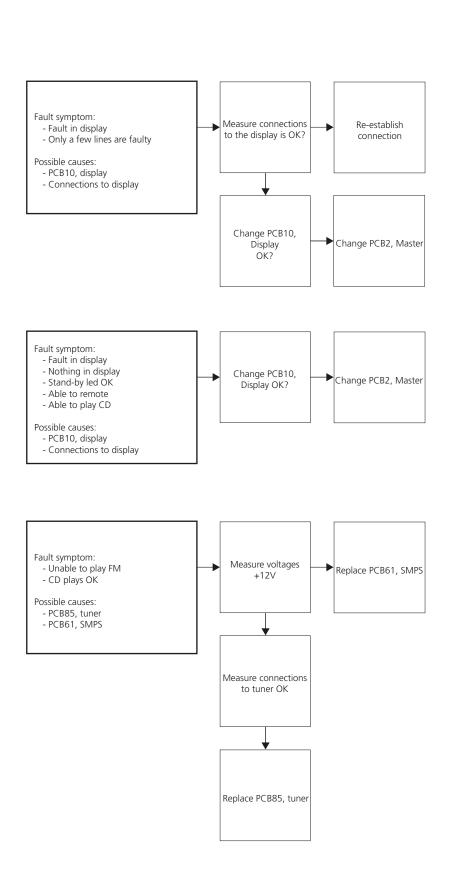




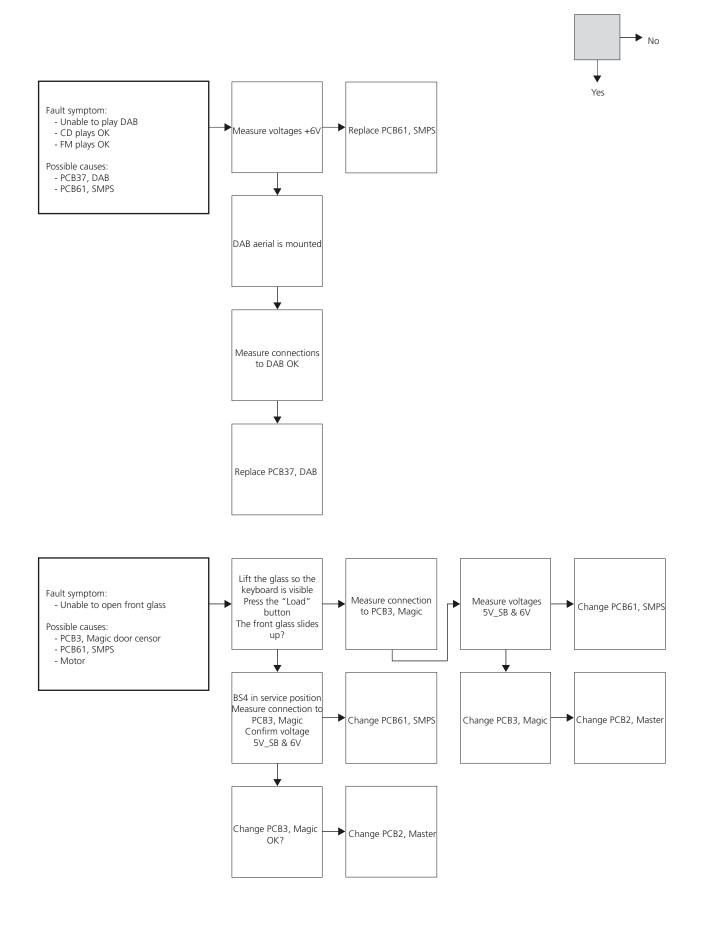


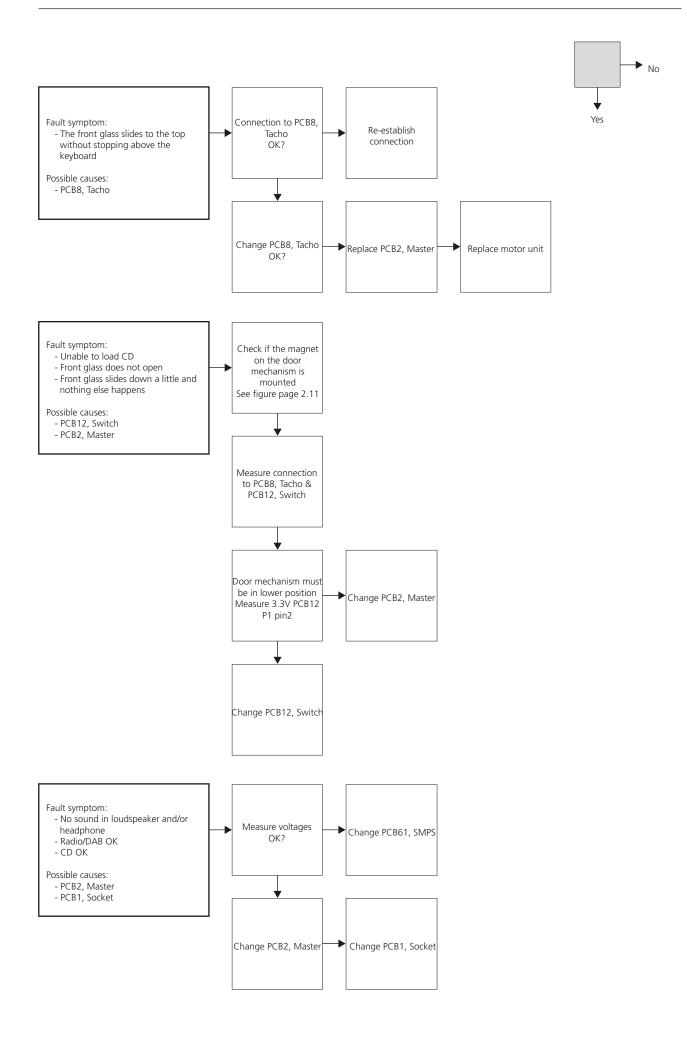




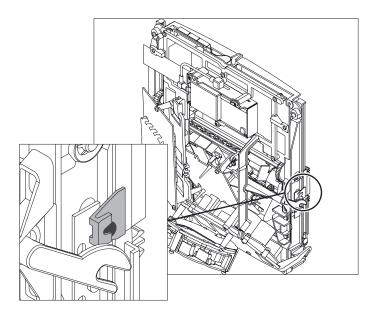








Placement of magnet



Not

Not

## Service tips

Service tool

Along with a Cable kit for ServiceTool (3375397) and a P.I.T. box (3375055) it is possible to flash-update the FEP software. From the service module a special service cable goes to the BeoSound 4 unit. From the service module another service cable goes to a laptop.

On the service module, you are able to select which software you want to flashupdate via a switch. You will need to get the ServiceTool program installed on your laptop, this can be downloaded from the Retail System. A fully described instruction is enclosed when the P.I.T. box is ordered (3375055).

#### Repair tips

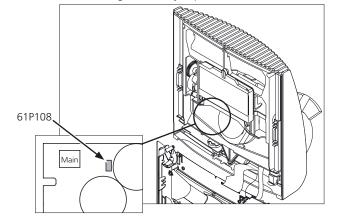
CD The diodes and the laser are very sensitive to static electricity. Damaging the diodes or laser may reduce their lives dramatically. So be sure, that the workstation is protected against static electricity. The product may not be connected to the mains, when the CD mechanism or 96Module is removed. 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., 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 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.

#### Exchange of software EEPROM on PCB6

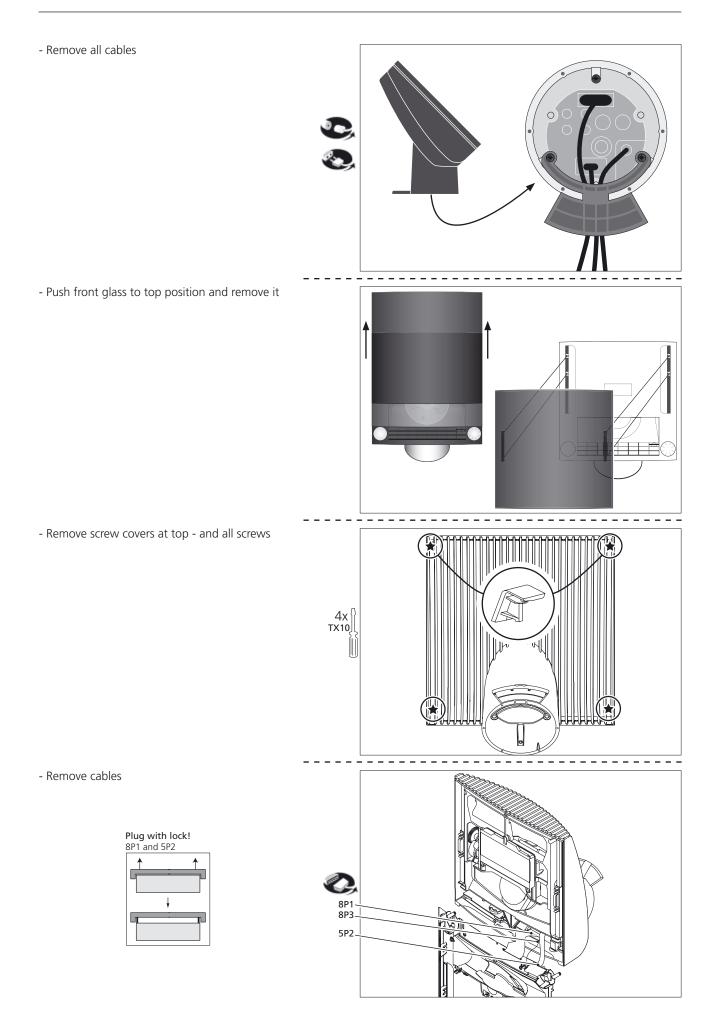
When exchanging the EEPROM on PCB6, the data from the micro-processor will be written into the EEPROM, when selecting any source e.g. RADIO. It is possible to borrow an EEPROM from another BeoSound 4 to test, if there is suspicion of a fault in the original EEPROM. The EEPROM will always adopt the data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

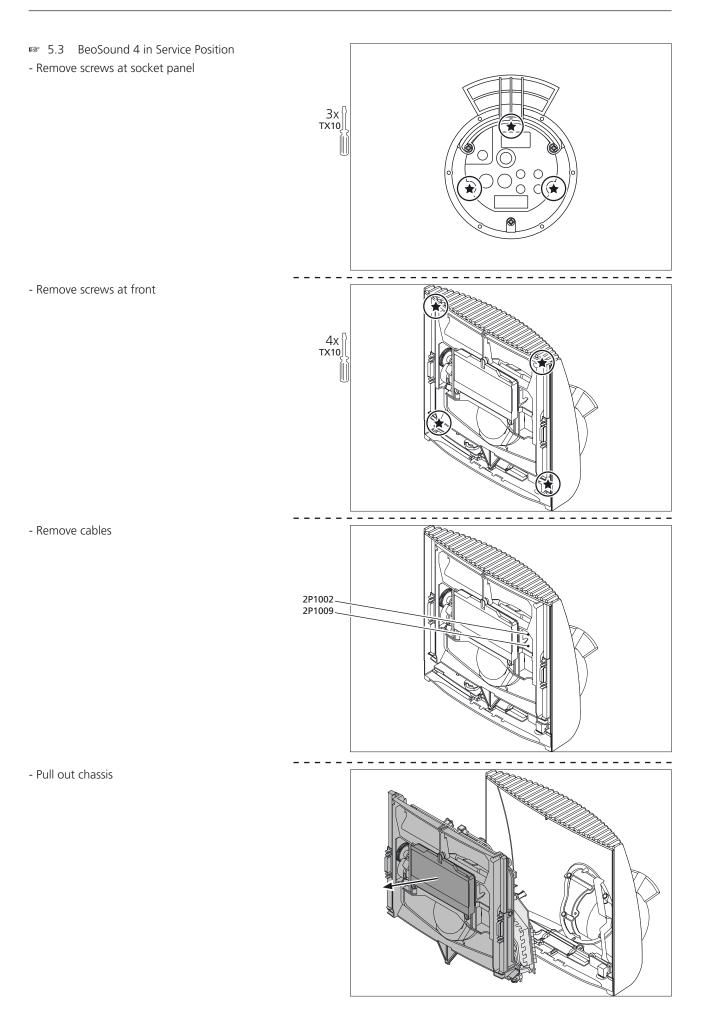
#### Replacing of both PCB6 and EEPROM 6IC6

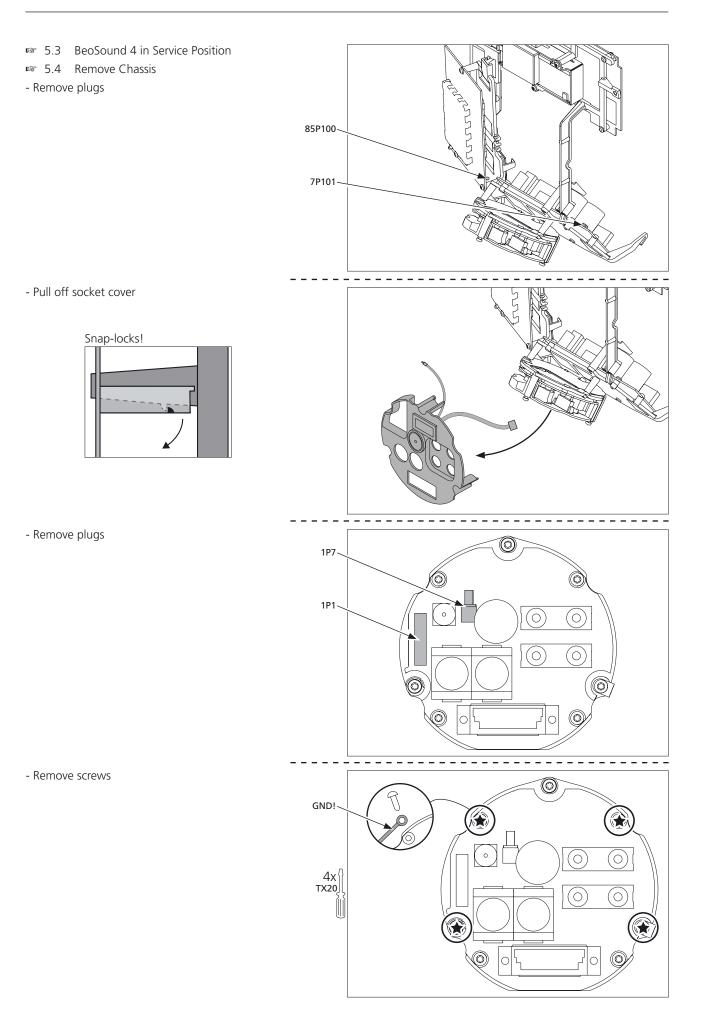
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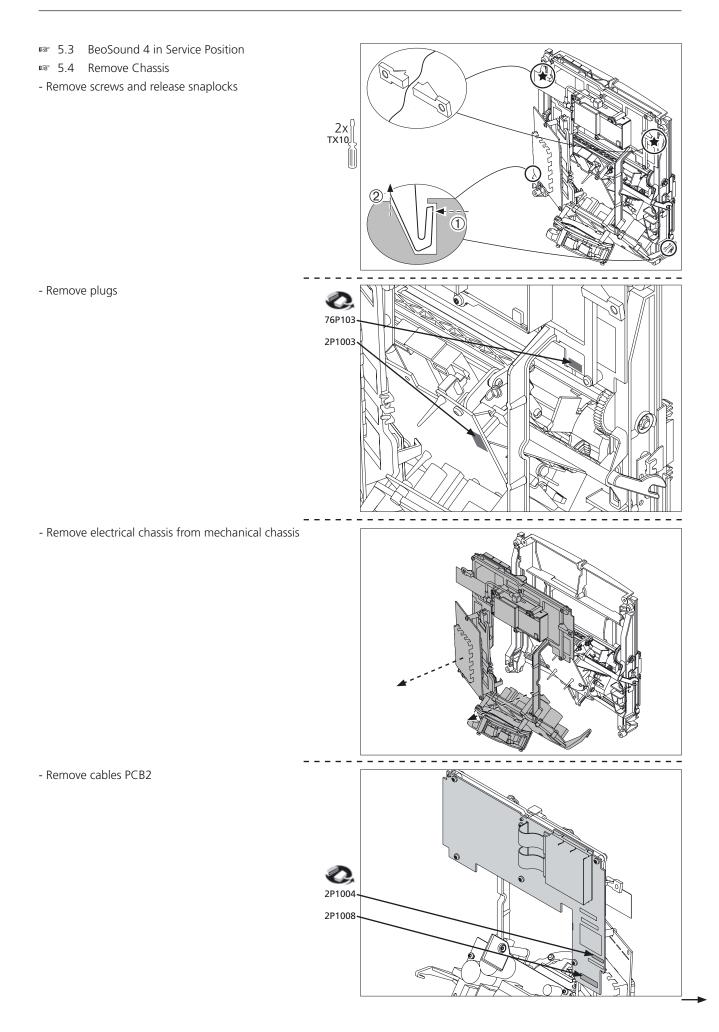
# Disassembly overview

РСВ	Module name	Page
1	Socket	5.5
2	Master	5.6
3	Magic	5.8
4	Light	5.9
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
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

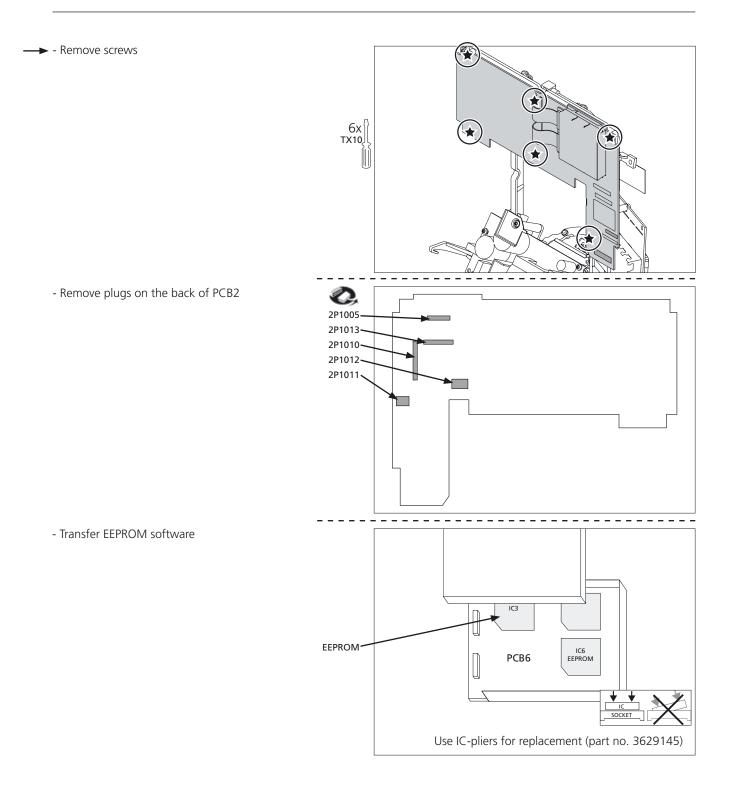


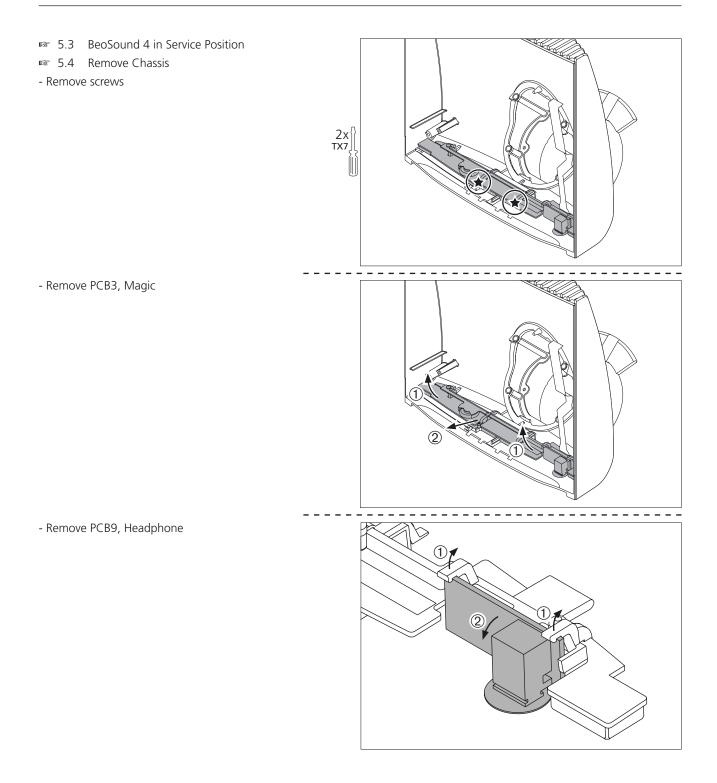






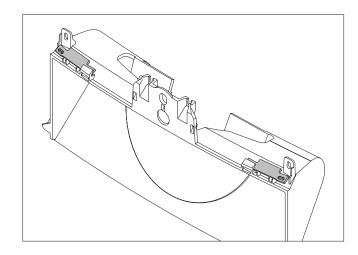
## BANG & OLUFSEN

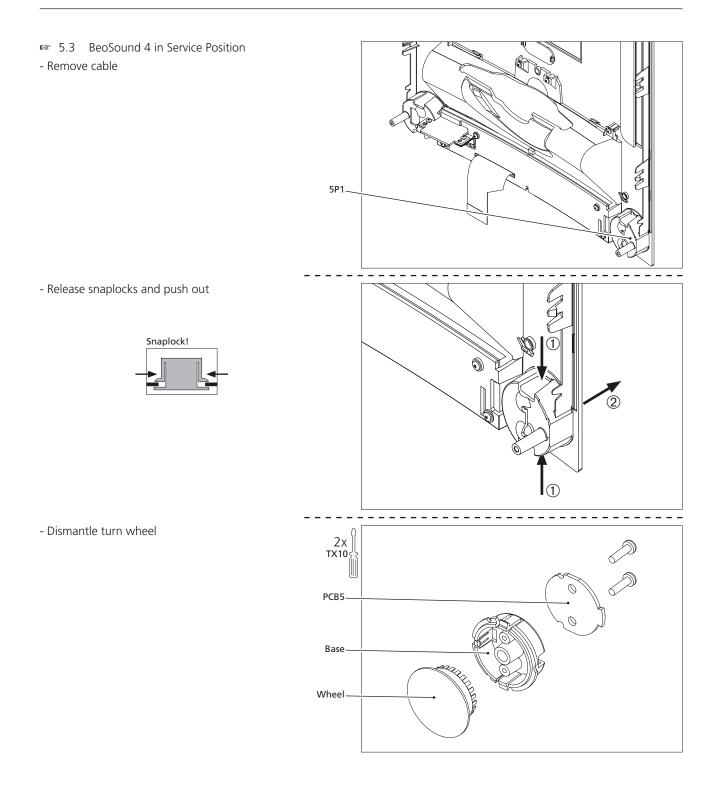


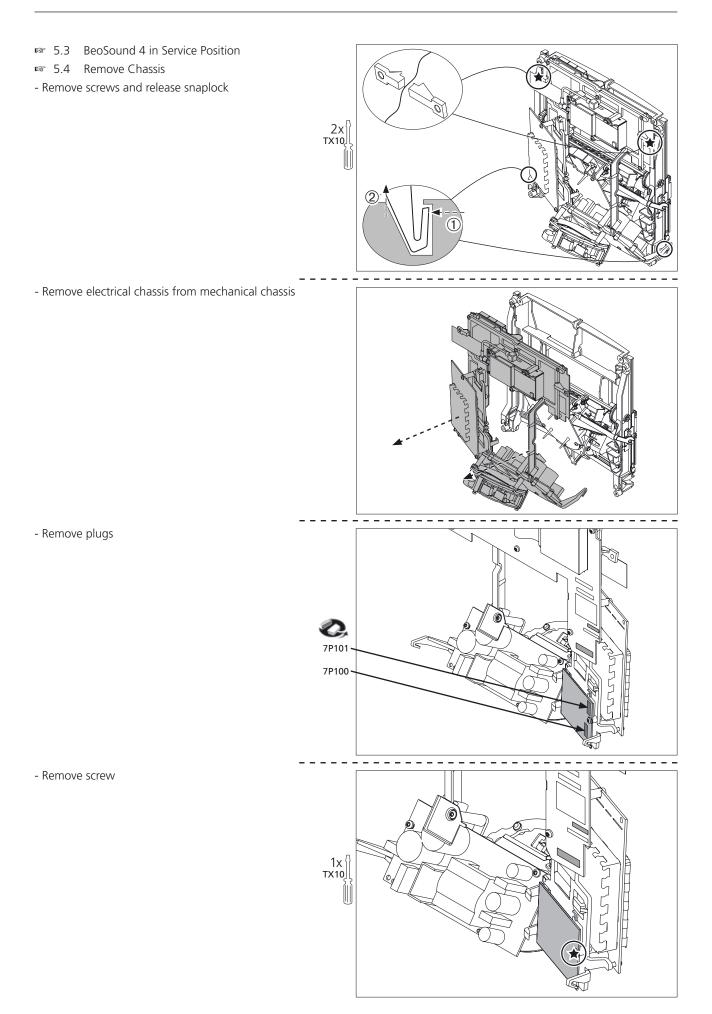


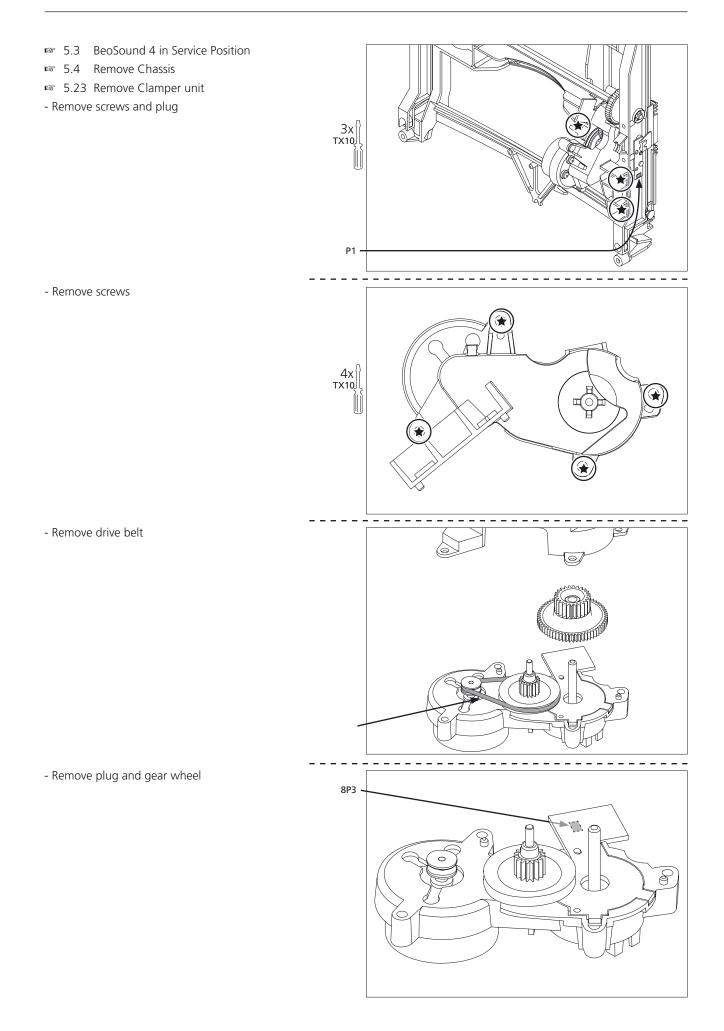
5.3 BeoSound 4 in Service Position5.27 Remove finger niche

- Remove PCB4, Light

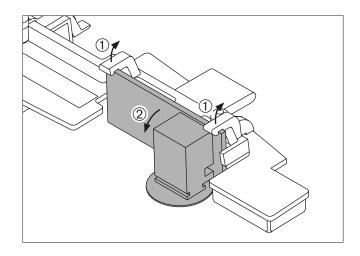


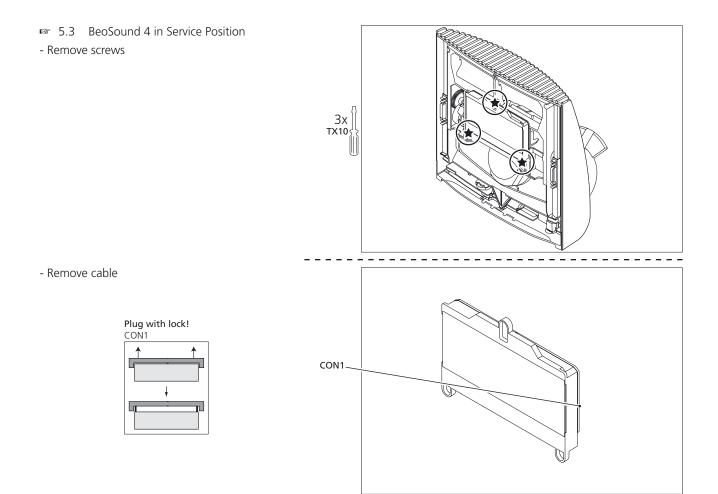


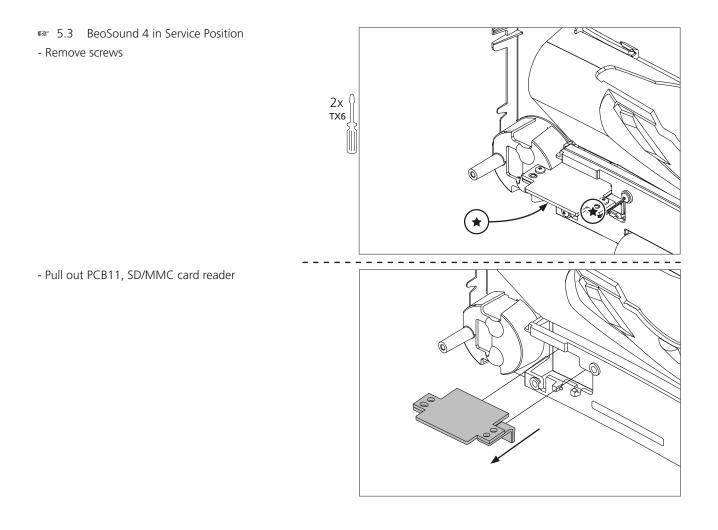




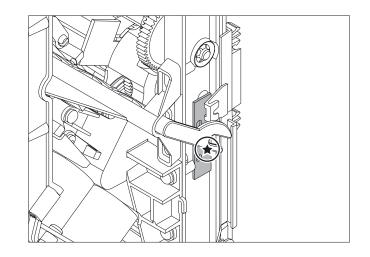
- 🖙 5.3 BeoSound 4 in Service Position
- 🖙 5.4 Remove Chassis
- 🖙 5.8 Remove PCB3, Magic
- Remove PCB9, Headphone

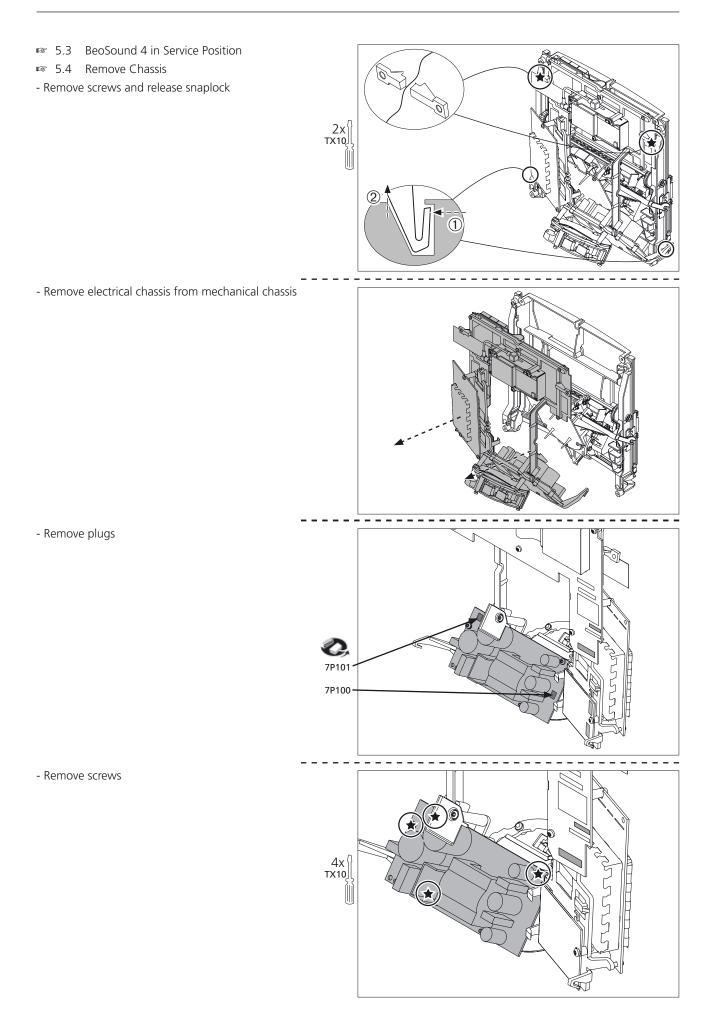


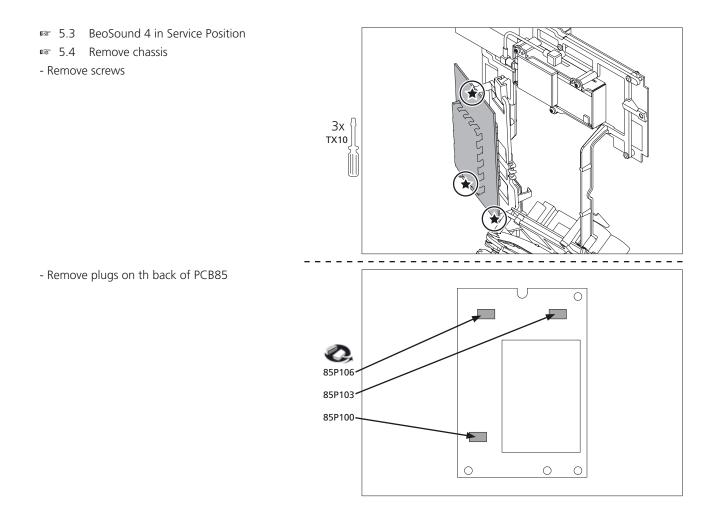


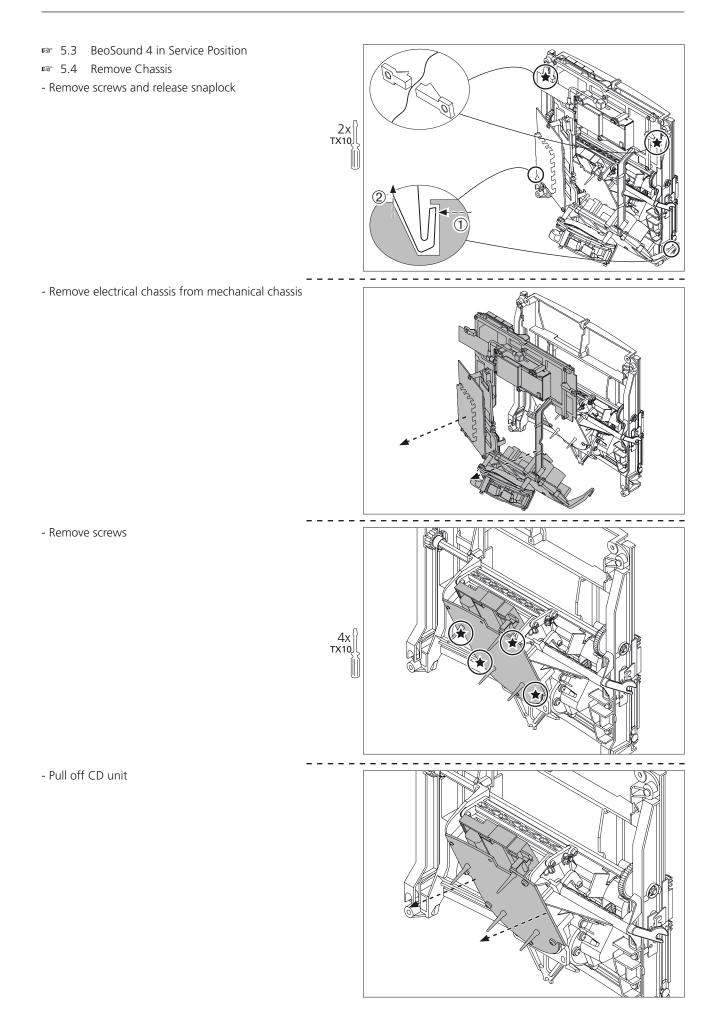


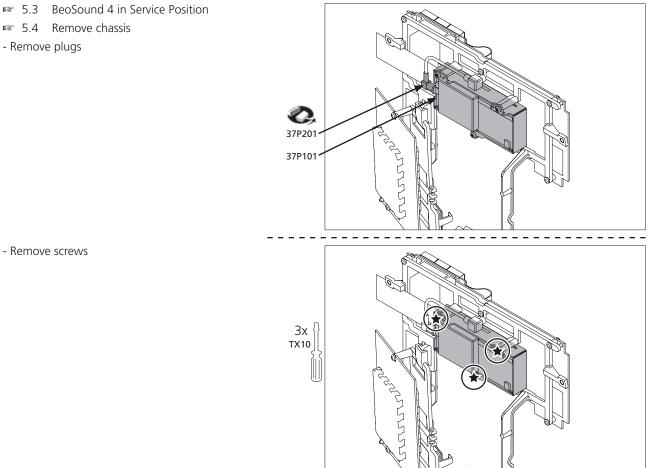
- state 5.3 BeoSound 4 in Service Position
- 🖙 5.4 Remove Chassis
- Remove screw





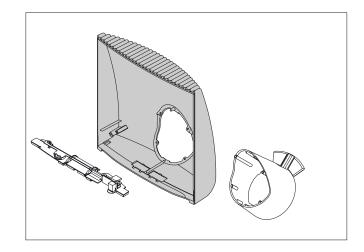




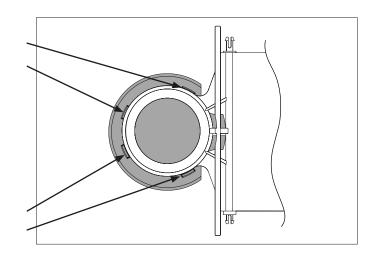


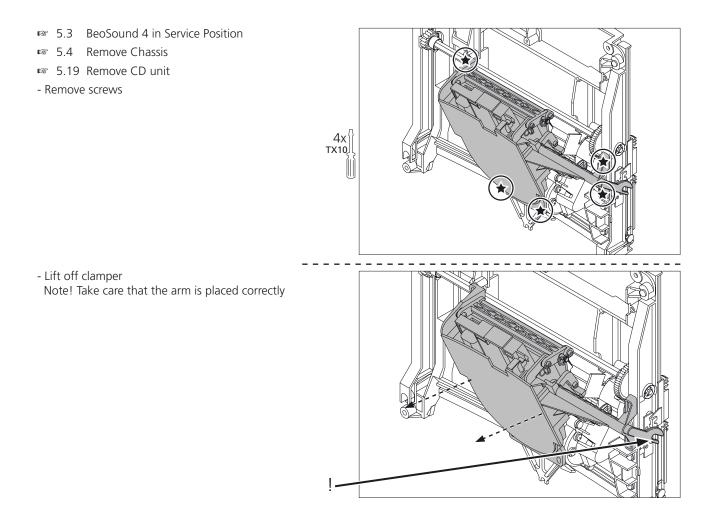
- Remove screws

- 🖙 5.3 BeoSound 4 in Service Position
- 🖙 5.4 Remove Chassis
- 🖙 5.8 Remove PCB3, Magic
- 🖙 5.24 Remove Base

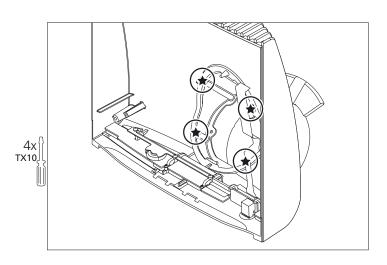


- 🖙 5.3 BeoSound 4 in Service Position
- 🖙 5.4 Remove Chassis
- INST 5.23 Remove Clamper unit
- Release snaplocks

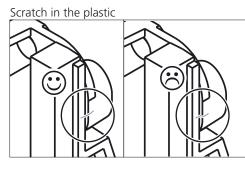


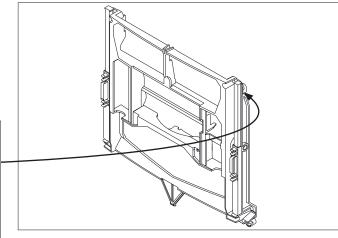


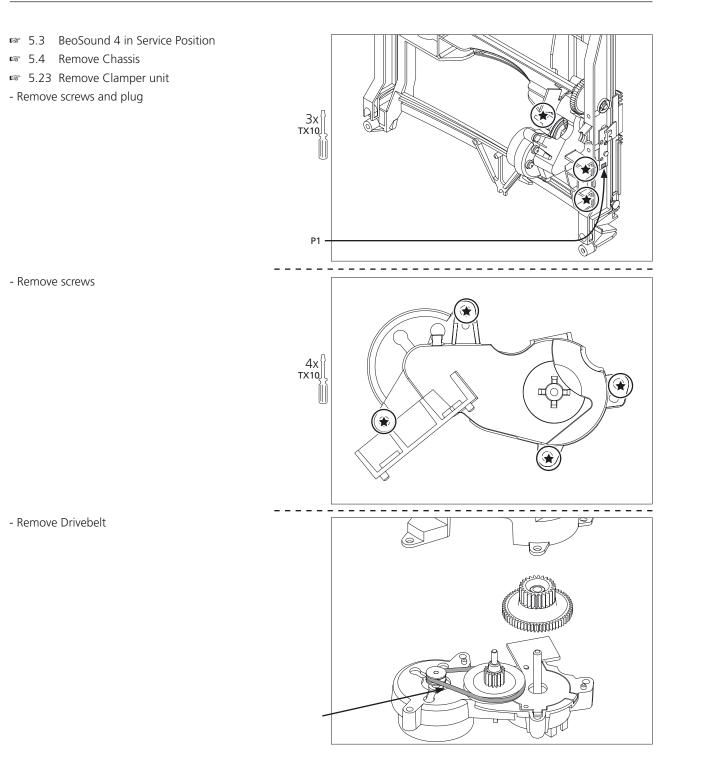
- 🖙 5.3 BeoSound 4 in Service Position
- 🖙 5.4 Remove Chassis
- Remove screws

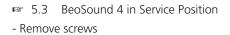


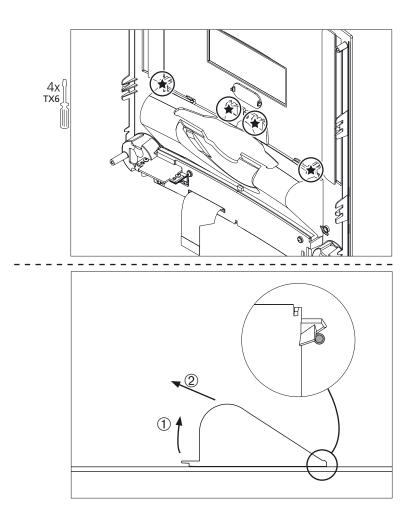
- 🖙 5.3 BeoSound 4 in Service Position
- 🖙 5.4 Remove Chassis
- 🖙 5.23 Remove Clamper unit
- 🖙 5.12 Remove Motor unit
- Check that the alignment is correct



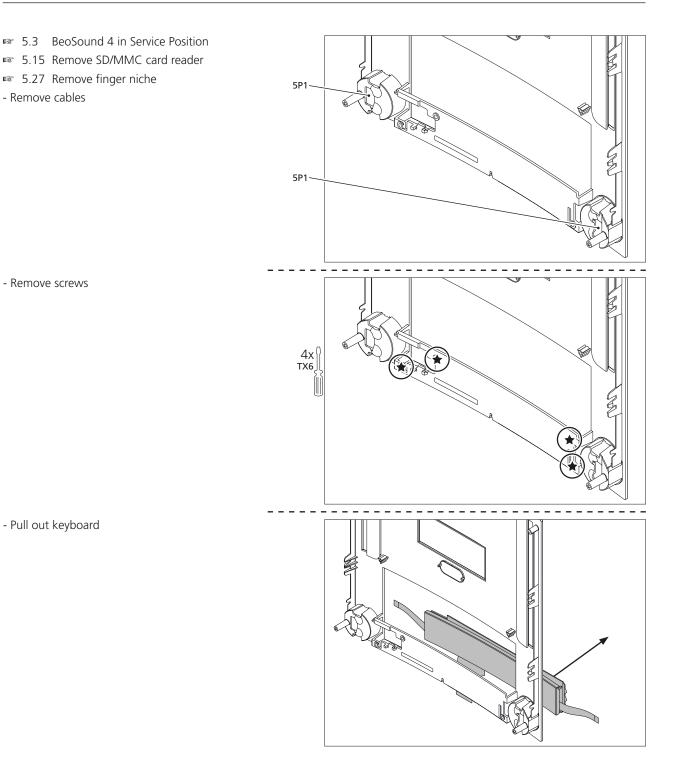


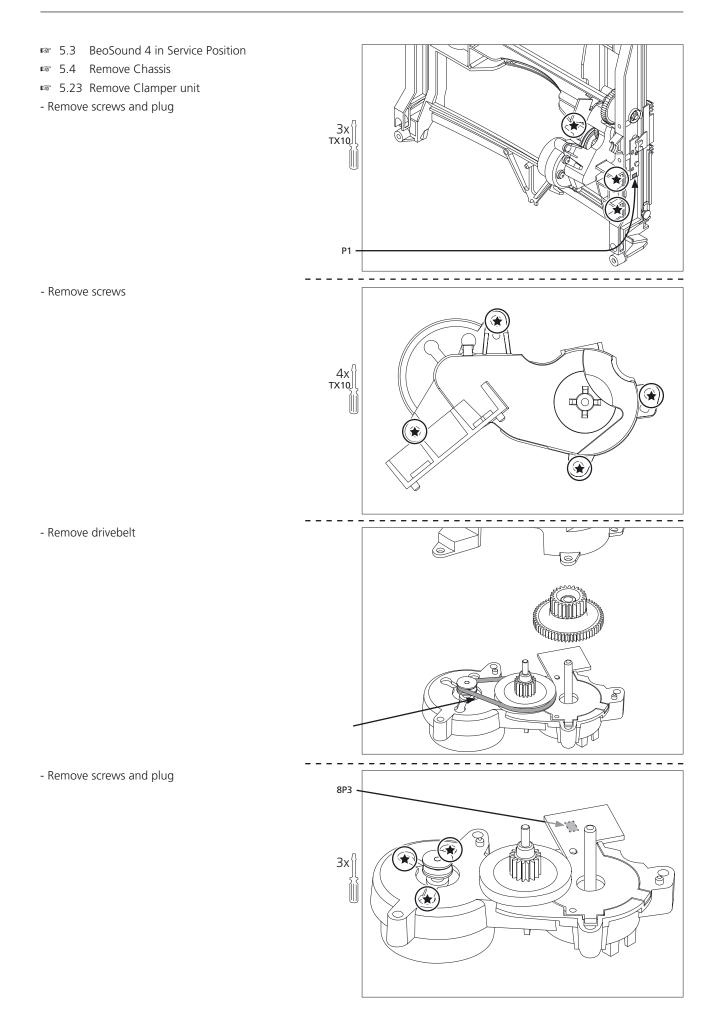






- Remove finger niche Note: lift free of "lock"

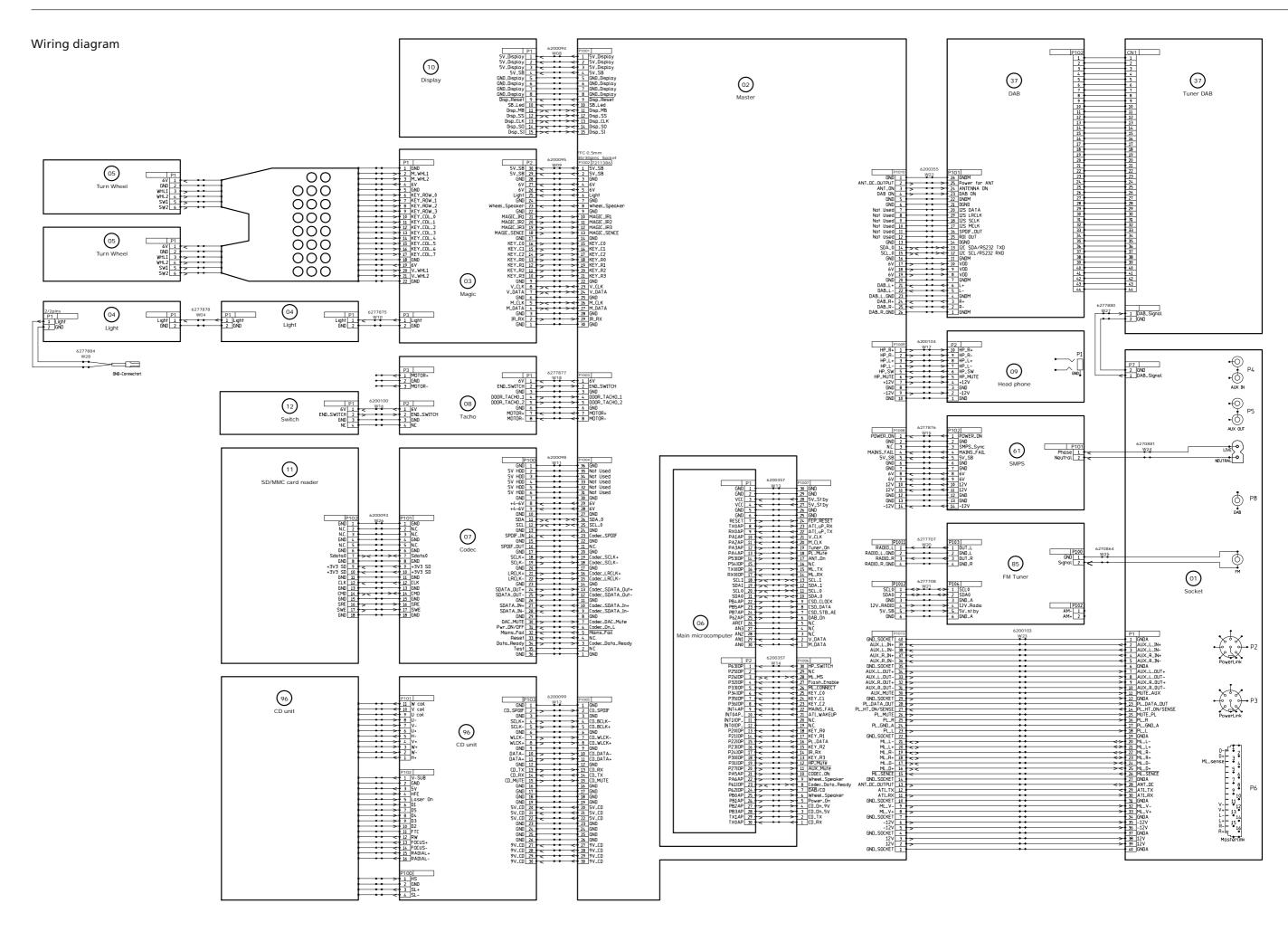


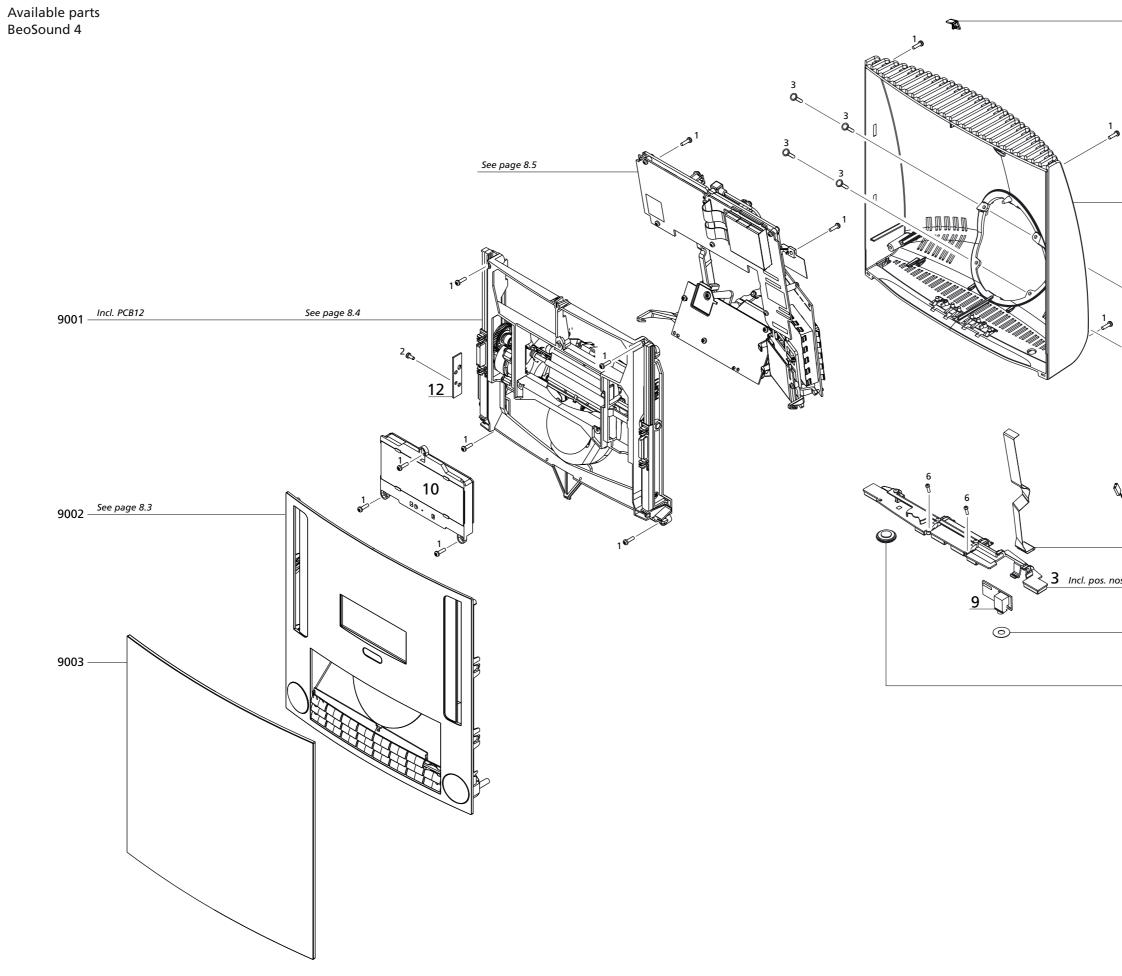


Specification guidelines for service use	BeoSound 4
With FM and RDS	Type 2851 EU 230V
	Type 2852 GB 230V
	Type 2853 US 120V
	Type 2854 JP 100V
	Type 2855 AUS 240V
	Type 2857 TWN 120V
	Type 2858 KOR 230V
	Type 2859 LAT 230V
	Туре 2860 СНК 230V
Preamplifier section	
Intermod. distortion	≤0.1%, IHF
	20.170,111
Frequency: AUX in	20Hz – 20kHz
	20112 - 201412
Signal to Noise ratio:	
AUX, A-weighted, volume 80	≥90dB, typ. 97dB
Channel separation	≥50dB, typ. 63dB
Channel unbalance	≤±1dB
Tuner, FM section	
FM range – EU/US	87.5 – 108MHz
FM range for type 2854 – Japan	76 – 90MHz
Usable sensitivity mono	≤12dBf
	≤12001 ≤20dBf
50dB quieting sensitivity mono	
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
Tuner, DAB section	
Receiving bands	174 – 240MHz (band 3)
	1452 – 1492MHz (band L) -95dBm
Sensitivity (BER = 10e-4)	
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
IP operation	Beo4 recommended
IR operation	
CD player	
Playback	CD-DA, CD-R/RW, (Audio format only)
Testdisc	SBC 444A (part no. 3634064)
	SBC 429
CD, disc types	12cm (5"), 8cm (3")
Frequency response	20Hz – 20kHz ±1dB
Signal/noise ratio:	
	SOUND / 76 dp with walking 00
Linear, below 80kHz	≥90dB / 76dB with volume 80
UNW	≥98dB / 90dB with volume 80
A-Weighted	≥103dB / 97dB with volume 80
Channel separation:	
1kHz	≥85dB
20Hz – 20kHz	≥8508 ≥75dB

Dynamic range (1kHz)	≥92dB	
Channel unbalance (1kHz)	≤±1dB	
THD+Noise:		
1kHz, 0 dBFS, volume 76	-85dB / -7	75dB with volume 76
SD Player/recorder	Cocuro Di	inital cards (CD)
Storage media		igital cards (SD) diaCard (MMC)
		SD SanDisk compatible
Capacity	All capaci	
Audio Codec playback		nat: Sampling frequencies: 8, 11.025, 12, 16, 22.05, 24, 32
	44.1 and	
		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
		64, 80, 96, 128, 160 and 192Kbps
Audio codec recording format	MP3 form	nat
	CBR @12	8kbit/s in stereo
		sample frequency
	≥16 bit sa	ample resolution
Testdisc: SBC429, Bitrate: 128kbit/sec, Codec: MPEG 1 Layer 3		
Frequency response:	2011 41	
Recorded from CD, fs = 44.1kHz	20Hz – 1	5kHz ±1dB
Signal/noise ratio:		
LINEAR, below 80kHz	≥76dB	
UNW	≥70dB ≥90dB	
A-Weighted	≥97dB	
Dimensions		
W x H x D	280 x 310 x 240mm / 11.0 x 12.2 x 9.4 in	
Weight	4kg	
Cabinet finish	Smoke coloured glass	
Power consumption	Stby. 1W, typical 12W	
Accessories	T 240	2
Floorstand	Type 2180	
Wall brackets	Type 218	
Connections		
Master Link x 1	Pin 1	Data0.25V
	Pin 2	Data+ +0.25V
	Pin 3	ML sense 0 – 5V
	Pin 4-8	NC
<b>o</b> 2 –	Pin 9	ATI/Tx
•3 - •4 -	Pin 10	ATI/Rx
●5 <b>-</b> ●6 -	Pin 11	Supply voltage -7V > -15V, stby3V > -15V
o7 -	Pin 12	Supply voltage 7V >15V, stby. 3V >15V
•8 - •9 -	Pin 13	Audio L-
<b>0</b> 10 <b>-</b>		1V bal., Rin 2.2M $\Omega$ Rout 75 $\Omega$
o  − o 2 −	Pin 14	Audio L+
<b>○</b>  3- ○ 4 -		1V bal., Rin 2.2M $\Omega$ Rout 75 $\Omega$
<b>0</b> 15-	Pin 15	Audio R-
<b>0</b> 16 <b>–</b>		1V bal., Rin 2.2M $\Omega$ Rout 75 $\Omega$
<b>ل</b> م ا	Pin 16	Audio R+
		1V bal., Rin 2.2M $\Omega$ Rout 75 $\Omega$

Audio Aux Input/Output x 1	AUX in L/R Phono 2V RMS 22 – $47k\Omega$
	AUX out L/R Phono 1.3V RMS $\pm 0.2 < 1k\Omega$
Power Link Front & Rear	Pin 1 PL ON = >2.5V, OFF = <0.5V
	Pin 2 Signal GND
- 2	
$5 \downarrow \downarrow \mu^4$	Pin 3 Audio L out 0V to 2V RMS
$\sim$	Pin 4 PL speaker ON = >2.5V, OFF = <0.5V
$3 \rightarrow 0 \circ 0 \leftarrow 1$	Pin 5 Audio R out OV to 2V RMS
	Pin 6 Data: High >3.5V. Low <0.8V
7 1 6	
δ	Pin 8 Not used
Headphones x 1	
	Sound level experienced should be the same using Form 1 headphones
	and BeoLab 4000 speakers
Output loval OdDEC values 72 Dr 220	
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 $\Omega$ impedance
DAB aerial x 1	75 $\Omega$ impedance
Mains	Cable included
	187 – 264V, 50 – 60Hz
Phase 🛛 💿	Type: 2851, 2852, 2855, 2858, 2859, 2860
	58 – 132V, 50 – 60 Hz
Earth 🛛 °	Type: 2853, 2854, 2857
- 11	
Subject to change without notice	





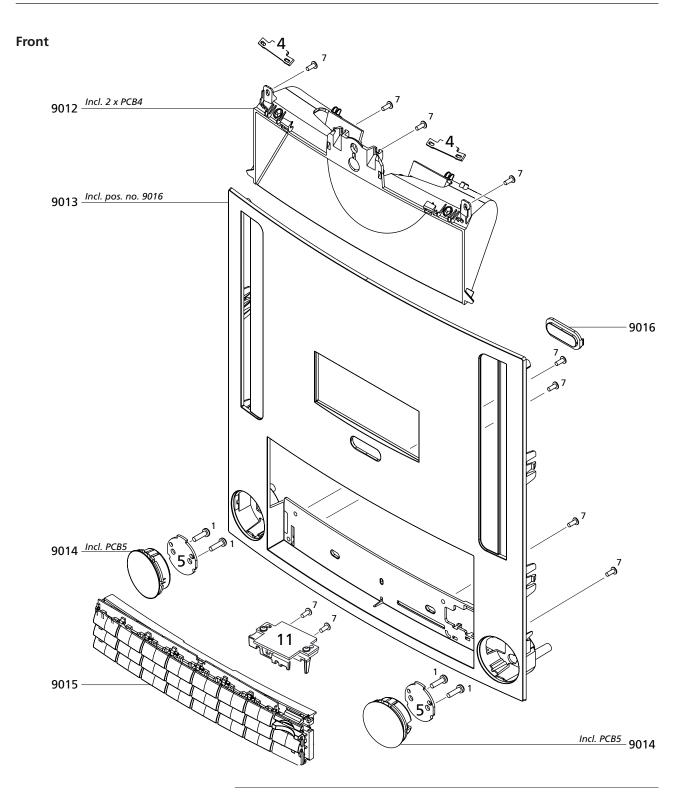
## BANG & OLUFSEN

	9004
	5004
A	9005
	9006
Incl. pos. no. 5	
Incl. pos. no. 5 v5 v5 v5 v5 v5 v5 v5 v5 v5 v	9008 1 8
	1 🎝
	9009
nos. 9011, W9, PCB9	W9
	9010
	9011

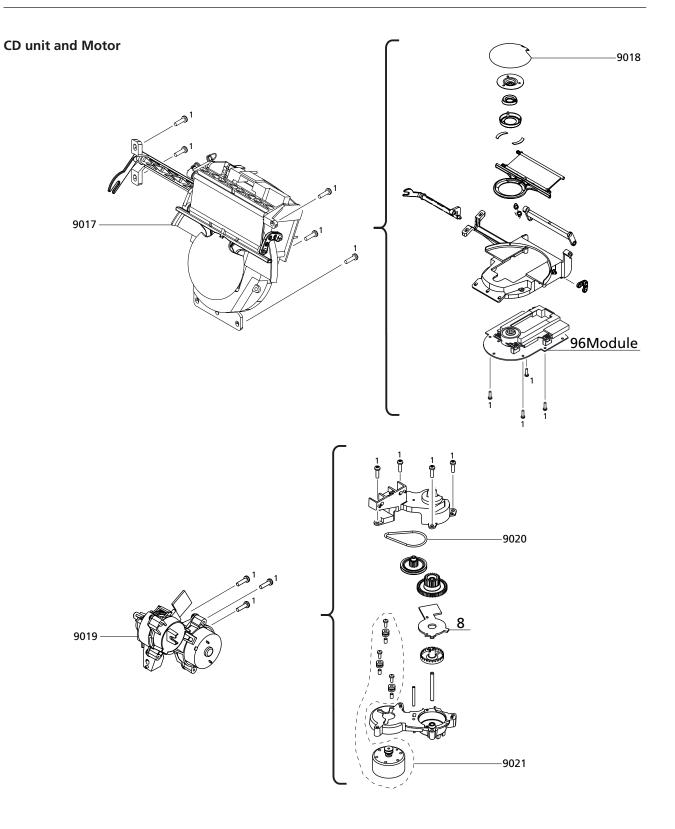
Screws etc.

BeoSound	4
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9001	3110018	Movable mechanics incl. PCB12		
9002	3162231	Front		
9003	3162228	Glass Scrow cover left		
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		
3Module	3110016	PCB3, Magic incl. pos. nos. 9011, W9, PCB9		
9Module	8002412	PCB9, Headphone		
10Module	8337004	PCB10, Display		
12Module	8002400	PCB12, Switch		
1	2052011	Screw 3 x 10mm		
2	2052029	Screw 2 x 5mm		
3	2054011	Screw 3 x 16mm		
3 4	2054011 2019035	Screw 3 x 16mm Screw 4 x 12mm		

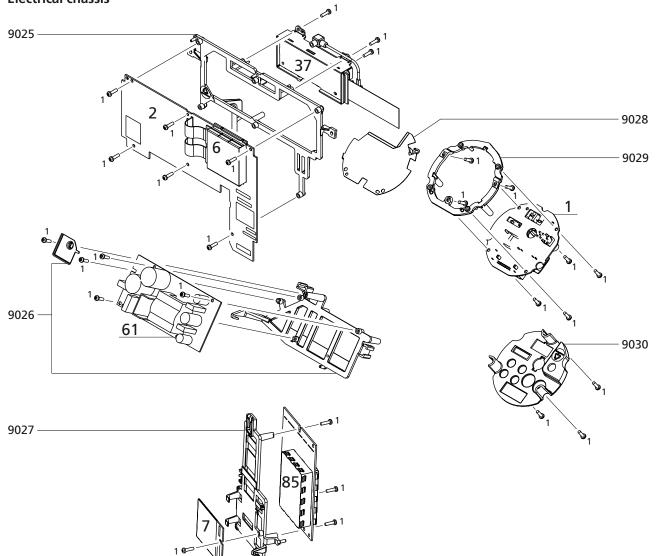


9012 9013 9014 9015 9016	3162232 3162233 2791022 3167040 3162217	Finger niche incl. 2 x PCB4 Front cover incl. pos. no. 9016 Set of wheels incl PCB5 Keyboard Cover
4Module	8002409	PCB4, Light
5Module	8002410	PCB5, Turn wheel
11Module	8002405	SD/MMC card reader
1 7	2052011 2013034	Screw 3 x 10mm Screw 6 x 25mm



9017	3320949	CD unit
9018	3162230	Clamper cover
9019	2755082	Gear unit
9020	2732127	Belt
9021	8400025	Motor
8Module	8002530	PCB8, Tacho
96Module	8420024	CD unit
1	2052011	Screw 3 x 10mm

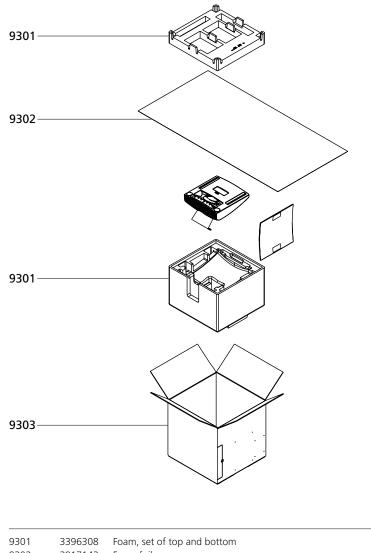
### **Electrical chassis**



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
2Module	8002593	PCB2, Master incl. PCB6
6Module	8000138	PCB6, Main microprocessor
		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

Wire bundles	See wiring diagram page 7.1. The part no. is printed on the diagram above the	wire bundle, as shown.
	10 Display	1
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 fi	rom Retail System / BeoWise
	3375397 Cable kit for ServiceTool, Cable kit consists of:	
	6270857 Main cable	
	6270852 Cable D-SUB-Jack	
	6277439 Wire, 3 pole	
	8008922 Minijack f/STB-Controller	
Available documentation	See Retail Ordering System	m
Accessories	8720063 FM dipol antenna	
	8720044 DAB antenna	

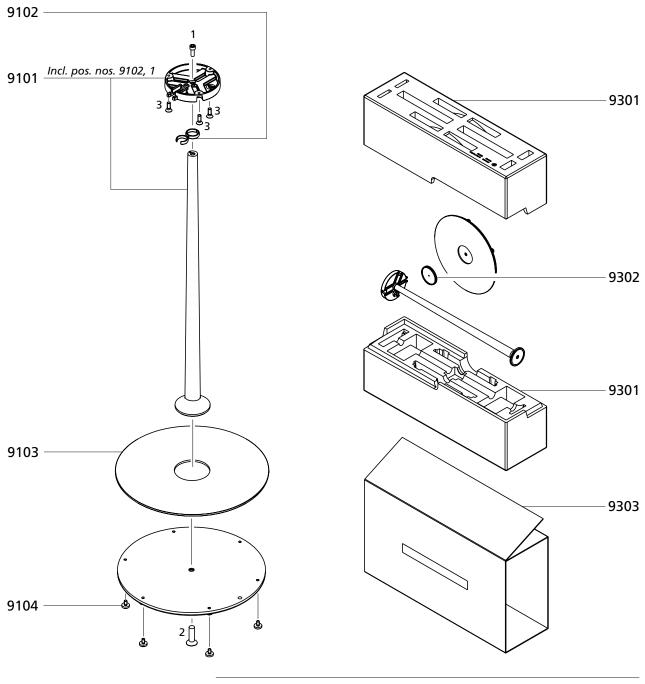
### Packing



5501	3330300	round, set of top and sottom
9302	3917143	Foam foil
9303	3392385	Outer carton

### Floor Stand 2180

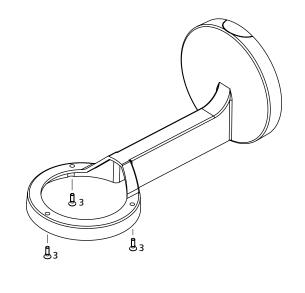
1218011



9101 9102 9103 9104	3932012 2369003 3162237 3103391	Tube incl. pos. nos. 9102, 1 Cable clip Cover plate Rubber foot
1	2046017	Screw 6 x 16mm
2	3390065	Bag w/parts
3	2019035	Screw 4 x 12mm
9301	3396329	Foam packing, set
9302	3016011	Guide f/cover plate
9303	3392485	Outer carton
	3390083	Cable manager
	3507399	Guide
	3507661	Guide f/cable manager

# Wall bracket 2181

1218111



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

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