BeoLab 17 Type 6602 - 6603, 6606 - 6609, 6612 - 6614

BeoLab 17 MK II Type 6619, 6622 - 6628

Before serial no. 25010056

Service Manual - version 1.2 English



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Change log:

Ver. 1.0 Original release Ver. 1.1 Replacement of modules, Available parts updated with new grounding plate and Specification updated with MK II Ver. 1.2 New spare part numbers of End caps in Available parts

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Survey of modules





Modules:

PCB02	Connector
PCB04	Power Supply
PCB30	Digital Sound Engine
PCB35	Amplifier
PCB47	LED Indicator
PCB48	NTC
PCB89	Wireless Power Link Rx

Antennas:

82.1	Wireless Antenna
82.2	Wireless Antenna
82.3	Wireless Antenna
82.4	Wireless Antenna

Speaker units:

Tweeter Woofer

1.2 How to service

How to service

Strategy

This product is to be serviced in the customer's home.

The repair involves replacement of the module(s), which are supplied in the backup suitcase. The replaced modules must be returned for repair at the Bang & Olufsen Module Repair department. Error codes as well as an adequate fault description must be returned with each replaced part. For this purpose, use the the Exchange Module section in the Retail Order System. To help the Bang & Olufsen Module Repair department it is very important to answer the following questions:

- 1. Which software versions are used in the product?
- 2. What happens in the actual situation?
- 3. Error code, the error code contains data that may be used for repairing the module(s) and must be returned with the defective module(s).

Handling the error code (error log).

- a. Make a note of the error code/codes on the Exchange Module section and print it.
- b. Use the error code when troubleshooting.
- c. Return the error code in the Retail Order System.
- d. Before returning the product to the customer, clear the error code (error log).

Preparations before service

Fault explanation and demonstration

Before troubleshooting is initiated, let the customer demonstrate the fault, if possible.

Recommended tools for service

- Bang & Olufsen ServiceTool
- Static-protective field service
- White gloves
- Shoe covers
- Soft lint-free cloth for cleaning
- Wi-Spy (Wi-Spy DBx + Chanalyzer Pro)

Final check after repair

The final check after repair describes the activities that are needed to ensure the product will be returned in perfect condition to the customer. Please refer to 'Final check after repair' section on page 3.7.

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Warnings when handling

Static electricity



Static-protective field service kit



very low voltages, and that makes the product extremely sensetive to static electricity.

Static electricity may damage the product. The integrated circuits operates with

A static-protective field service kit must always be used when the product is disassembled or modules are being handled, since the internal electronics are very sensitive to static electricity.

Follow the instructions in the Service Manual and use the ESD-mat for both old and new modules.



When mains voltage on the product is required, remove the connection between the product and the ESD-mat. This is important to avoid getting injured by mains voltage.

Waste of Electrical and Electronic Equipment (WEEE)



Electrical and electronic equipment, parts and batteries marked with this symbol must not be disposed of with normal household wastage; all electrical and electronic equipment, parts and batteries must be collected and disposed of separately.

Management methods for controlling pollution caused by Electronic Information Products



51	,					
Component	Hazardous substance					
name:	Pb	Hg	Cd	Cr(VI)	PBB	PBDE
Aluminum parts	×	0	0	0	0	0
РСВА	×	0	0	0	0	0

Symbols used in the charts:

- Indicates all homogeneous materials' hazardous substances content are below the ST/T 11363–2006 MCV limit.
- Indicates that the hazardous substance content contained in any one of the homogeneous materials of the part exceeded the MCV limits specified in the standard SJ/T 11363-2006.

Troubleshooting - Fault flow chart 2.1

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Troubleshooting

LED indicator	2.2
Description of LED indications	2.2
Product Information - Usage data	2.3
Error Log	2.3
Speaker unit test	2.4
NTC module test	2.4
Sound test	2.5

Fault flow chart

No function and no LED indication	2.6
LED indicator is flashing slowly orange	2.7
LED indicator is flashing quickly orange	2.8
No sound from speaker in a wired setup	2.9
No sound from speaker in a wireless setup	2.10
The signal for wireless connection is low	2.11
Distorted sound from speaker	2.12
Survey of plugs and pins	2.13

2.2 Troubleshooting

Troubleshooting

LED indicator

The LED at the front of the speaker indicates the state of the product by changing colour (red/orange/green), flashing or solid. If errors occur during operation, the product will enter an error state and the LED will start flashing quickly orange.



Description of LED indications

- Green

Solid (10 seconds duration): The product switches on.

Flashing slowly: Software update is on-going.

Flashing quickly: Associate mode (ready for pairing).

- Orange

Solid: The signal strenght for wireless connection is low.

Flashing slowly:

The product is close to overheating and will shut down temporarily. The product will eventually revert to normal operation.

Flashing quickly:

The product is failing. The product will not revert to normal operation. In some cases it can be resolved by disconnecting/connecting the mains.

This could be:

- NTC is defective or disconnected.
- Digital Sound Engine is overheating.
- Calibration failed or has not been done (flashing quickly orange/green).

- Red

Solid (10 seconds duration):

The product is connected to mains, the product is switching off or the product restarts after a reset.

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Product Information - Usage data

Usage data is logged in the product which can be very useful information in troubleshooting situations. Use the ServiceTool to read out the usage data.

Error Log

If an error occurs in the product, it is recorded and saved in the error log. The error log may be helpful in troubleshooting situations. Use the ServiceTool to read out the error log.

Approach (ServiceTool)

Connect a service PC with ServiceTool. Follow the procedure below:

Connect the ServiceTool to the **SERVICE** connector on the product as shown: Use ServiceTool cable (see Available parts) together with Standard Ethernet cable.



- Run ServiceTool.
- Be sure that ServiceTool is updated to the latest version. If not, upgrade and restart ServiceTool.
- Scroll down to BeoLab section.
- Select **BeoLab 17** and click **Launch**.
- Click on the **PRODUCT** tab (if not already shown).
- Click + next to each item to expand the menus.
- Click System Info -> Product ID (the information screen appears).
- Click the Read button and confirm that product data is read out on the screen.
 This indicates successful communication between the product and the service PC.

2.4 Troubleshooting

Speaker unit test

Measure the DC resistance of the speaker unit to determine if the fault is caused by a defective speaker unit. It is recommended to measure on the terminals on the speaker unit. The speaker units must be disconnected from the product.



Speaker unit	Nominal value	Limits
Tweeter	6.3 ohm	5.7 - 6.9 ohm
Woofer	6.7 ohm	6.0 - 7.4 ohm

If the speaker unit is outside the limits, it is defective and must be replaced. Under normal conditions it is not necessary to replace the gaskets on the speaker unit, unless they have been damaged by accident.

NTC module test

Measure the resistance of the NTC module to determine if the fault is caused by a defective speaker unit or a defective NTC module. It is recommended to measure on the terminals on the NTC module.

The NTC module must be disconnected from the product.



The resistance of the NTC module at 22°C (72°F) is approximately 470k ohm. If the NTC module is not measuring approximately 470k ohm, it is defective and must be replaced.

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Sound test

It is possible to test each speaker unit/amplifier to check the sound quality, and determine whether the devices are faulty or healthy. For this purpose use ServiceTool and refer to the test section.

The **Sound Test** section features a sound generator which allows the user to send a pure sound directly to the speaker unit. This feature makes troubleshooting or testing more easy and targeted.



- Run ServiceTool.
- Be sure that ServiceTool is updated to the latest version. If not, upgrade and restart ServiceTool.
- Scroll down to BeoLab section.
- Select BeoLab 17 and click Launch.
- Click on the **PRODUCT** tab (if not already shown).
- Click + next to each item to expand the menus.
- Click Test -> Test Sound (the information screen appears).
- Follow the procedure in Service Tool.

2.6 Fault flow chart



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No



2.8 Fault flow chart



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** Set BeoLab 17 in service position 2 for measuring on modules. See replacement of modules page 4.8

2.10 Fault flow chart



Set BeoLab 17 in service position 2 for measuring on modules. See replacement of modules page 4.8

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2.12 Fault flow chart



Set BeoLab 17 in service position 2 for measuring on modules. See replacement of modules page 4.8

**

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PCB89, Wireless Power Link Rx





https://beoworld.org		
2.14	2.14	2.14

Adjustments - Final check after repair 3.1

Adjustments

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Information	3.2
PCB30, Digital Sound Engine	3.3
PCB35, Amplifier	3.3
PCB89, Wireless Power Link Rx - when backup function is possible	3.4
PCB89, Wireless Power Link Rx - when backup function is not possible $\$	3.5
Speaker units	3.5
Software update	3.6

Final check after repair

Final check after repair		3.7
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3.2 Adjustments

Adjustments

Information

Depending on the repair there might be different kinds of adjustments/alignment to be performed, after maintenance of the product.

Some adjustments has to be done with **ServiceTool**.

Adjustments or calibration is necessary when the following modules are replaced:

PCB30, Digital Sound Engine - when backup function is possible:

- Restore product data from the data backup
- Calibration of the amplifier (done automatically)

PCB30, Digital Sound Engine - when backup function is not possible:

- Restore product data from factory data (ID Restore)
- Calibration of the amplifier (done automatically)

PCB35, Amplifier:

- Calibration of the amplifier

PCB89, Wireless Power Link Rx - when backup function is possible:

- Restore product data from the data backup
- Connecting speaker wirelessly

PCB89, Wireless Power Link Rx - when backup function is not possible:

- Restore PCB89, Wireless Power Link Rx data
- Connecting speaker wirelessly

Speaker units:

- Calibration of speaker units

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PCB30, Digital Sound Engine

Backup/Restore

This function is used when PCB30, Digital Sound Engine is replaced and it is still possible to communicate with the old module. The following data is handled:

- ID number
- Serial number
- Type number
- Item number
- Calibration of speaker units
- Calibration of the amplifier
- Product settings
- Wireless data
- A new calibration of the amplifier is performed again.

Connect ServiceTool, launch **BeoLab 17** and follow the procedure under **Repair -> Chassis.**

ID Restore

The ID Restore function is used when PCB30, Digital Sound Engine is replaced and it is **not** possible to communicate with the old module. In this case it is necessary to get product data from the ServiceTool (factory data from a database). The following is automatically transferred:

- ID number
- Serial number
- Type number
- Item number
- Calibration of speaker units
- Product settings
- A new calibration of the amplifier is performed again.

Connect ServiceTool, launch **BeoLab 17** and follow the procedure under **Repair -> Chassis.**

PCB35, Amplifier

Calibration of the amplifier

Calibration of the amplifier is necessary when PCB35, Amplifier is replaced. The aim is to ensure optimal sound.

Connect ServiceTool, launch **BeoLab 17** and follow the procedure under **Adjustments -> Adjustments.**

PCB89, Wireless Power Link Rx - when backup function is possible

Backup/Restore

This function is used when PCB89, Wireless Power Link Rx is replaced and it is still possible to communicate with the old module. The following data is handled:

- ID number
- Serial number
- Type number
- Item number
- Calibration of speaker units
- Calibration of the amplifier
- Product settings
- Wireless data
- A new calibration of the amplifier is performed again.

Connect ServiceTool, launch **BeoLab 17** and follow the procedure under **Repair** -> **Chassis**.

Connecting speaker wirelessly

After replacement of PCB89, Wireless Power Link Rx the speaker must be set up in the wireless system correctly. Depending on the setup, there will be a few settings.

Setup with BeoLab Transmitter 1:

- Press the RESET button on the speaker (set speaker in associate mode)
- Press **SELECT** and **STORE** simultaneously between 1.5 and 10 seconds to reset association on the BeoLab Transmitter 1
- Press SELECT to make a rescan on BeoLab Transmitter 1

Setup with product equipped with Wireless Power Link Tx:

- Press the RESET button on the speaker (set speaker in associate mode)
- Delete speaker in menu of the product equipped with Wireless Power Link Tx
- Perform a rescan in menu of the product equipped with Wireless Power Link Tx

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Adjustments 3.5

PCB89, Wireless Power Link R	x - when backup function is not possible
Replace	The replace function in ServiceTool is used when it is not possible to perform a Backup/Restore of the module.
	Connect ServiceTool, launch BeoLab 17 and follow the procedure under Repair -> Chassis .
Connecting speaker wirelessly	After replacement of PCB89, Wireless Power Link Rx the speaker must be set up in the wireless system correctly. Depending on the setup, there will be a few settings.
	 Setup with BeoLab Transmitter 1: Press the RESET button on the speaker (set speaker in associate mode) Press SELECT and STORE simultaneously between 1.5 and 10 seconds to reset association on the BeoLab Transmitter 1 Press SELECT to make a rescan on BeoLab Transmitter 1
	 Setup with product equipped with Wireless Power Link Tx: Press the RESET button on the speaker (set speaker in associate mode) Delete speaker in menu of the product equipped with Wireless Power Link Tx Perform a rescan in menu of the product equipped with Wireless Power Link Tx
Speaker units	
Calibration of speaker driver	Calibration of speaker driver is necessary when a speaker unit is replaced. The aim is to ensure optimal sound even if the new speaker unit varies from the old speaker unit. Use the read function to enable the calibration data fields.

Connect ServiceTool, launch **BeoLab 17** and follow the procedure under **Adjustments -> Speaker calibration**.

3.6 Adjustments

Software update

It is very important that the product is updated to the latest software version before it is returned to the customer. This is to ensure the customer receives the best possible experience. Follow the procedure below:

Approach

Connect a service PC with ServiceTool. Follow the procedure below:

- Connect the ServiceTool hardware from the service connector on the product to the service PC as shown:



- Run ServiceTool.
- Be sure that ServiceTool is updated to the latest version. If not, upgrade and restart ServiceTool.
- Scroll down to BeoLab section.
- Select BeoLab 17 and click Launch.
- Click on the **PRODUCT** tab (if not already shown).
- Click + next to each item to expand the menus.
- Click Software -> Automatic Software Update
- Follow the procedure in ServiceTool.

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Final	check	after	repair	3.7
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Final check after repair	
	The final check after repair describes the activities that are needed to ensure the product will be returned in perfect condition to the customer. Follow the procedures below:
Insulation test	
	The product must be insulation tested after having been dismantled. Make the test when the product has been reassembled and is ready to be returned to the customer. Flashover must not occur during the test.
	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 to ground on the Power Link socket.
!	NOTE
	To avoid damaging the product it is essential that both terminals of the insulation tester have good contact.
	During the test the current must not exceed 5 mA.
	Slowly increase the voltage on the insulation tester until a voltage of 2.5 kV (ac) is obtained. Maintain the voltage level for one second, then slowly decrease the voltage to 0 V (ac).
Restore setup	
-	Before the product is handed over to the customer ensure that: The position switch (FREE / WALL / CORNER) is in correct position. The role switch (LEFT / RIGHT / WIRELESS) is in correct position.
Software update	
	It is very important that the product is updated to the latest software version before it is returned to the customer. This is to ensure the customer receives the best possible experience. Follow the procedure on page 3.6.
Check sound	
	Ensure that the speaker play correct in both a wired and a wireless setup. Test that all speaker units in the product play and sound correctly. This can be done by a sound test with ServiceTool. Follow the procedure on page 2.5.
Clean the product	
	Wipe dust off the surfaces using a dry, soft cloth. If necessary, remove stains or dirt with a soft, damp cloth and a solution of water and mild detergent such as washing-up liquid.
!	Never use alcohol or other solvents to clean any parts of the product.

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Replacement of modules 4.1

Replacement of modules		
	Remove cover	. 4.2
	BeoLab 17 in service position 1	. 4.3
	BeoLab 17 in service position 2	. 4.8
Modules		
	Replace PCB02, Connector	4.10
	Replace PCB04, Power Supply	4.13
	Replace PCB30, Digital Sound Engine	4.14
	Replace PCB35, Amplifier	4.16
	Replace PCB47, LED Indicator	4.17
	Replace PCB48, NTC	4.18
	Replace PCB89, Wireless Power Link Rx	4.19
Antennas		
	Replace 82.1, Wireless Antenna	4.20
	Replace 82.2, Wireless Antenna	4.21
	Replace 82.3, Wireless Antenna	4.22
	Replace 82.4, Wireless Antenna	4.23
	Wireless Antennas (disconnect and connect)	4.24
Speaker units		
	Replace tweeter	4.25
	Replace woofer	4.26

Notification

Warning – Static electricity



Static electricity may damage the product. A static-protective field service kit must always be used when the product is disassembled or modules are being handled.

Notice!

All modules must be placed on the ESD-mat or in an ESD-proof bag.

After replacement of modules

- When BeoLab 17 has been disassembled, all affected sealings must be visually checked and replaced, if damaged.
- Calibration of speaker driver is necessary when a speaker unit is replaced. Refer to adjustment page 3.5.
- Back up product data from the old PCB30, Digital Sound Engine and restore it to the new module after replacement. Refer to adjustment page 3.3.
- After replacement of PCB30, Digital Sound Engine the new module must be updated to the latest software version. Refer to page 3.6.
- After replacement of PCB89, Wireless Power Link Rx the speaker must be set up in the wireless system correctly. Refer to adjustments page 3.4 3.5.
- Always perform a 'Final check after repair' after the product has been dismantled. Refer to final check after repair page 3.7.

4.2 Replacement of modules



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4.4 Replacement of modules



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4.6 Replacement of modules



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- When reassembling remember correct placement of springs if present



- When reassembling remember correct placement of insulation

Correct placement





4.8 Replacement of modules


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Replacement of modules 4.9

- Mount PCB35, Amplifier with screws and washers



- Connect cables

4.10 Replacement of modules



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Replacement of modules 4.11



4.12 Replacement of modules

- Turn around the top chassis
- Replace PCB02, Connector
- Move EMC gasket to the new PCB or mount new, if damaged.

EMC Gasket







4.14 Replacement of modules



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- Remove screws ! Screws includes plastic washers
- Gently disconnect and pull off module



- Disconnect cables and replace PCB30, Digital Sound Engine

4.16 Replacement of modules





4.18 Replacement of modules



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Replace PCB89, Wireless Power Link Rx

- 🖙 4.2 Remove cover
- 🖙 4.3 BeoLab 17 in service position 1
- 🖙 4.14 Remove PCB30, Digital Sound Engine
- Remove screws and gently pull off PCB89, Wireless Power Link Rx
 - ! Attention antenna wires
- Disconnect antenna wires with the special tool, Extraction jig, U.FL series and replace PCB89, Wireless Power Link Rx

! When disconnecting antenna wires be careful not to damage the antenna plug or wire, see page 4.24





4.20 Replacement of modules



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Replace 82.2, Wireless Antenna

🖙 4.2 Remove cover

🖙 4.3 BeoLab 17 in service position 1



- Remove screws and replace 82.2, Wireless Antenna

! When reassembling, be careful not to tighten the screws too hard.

! It is very important that the gasket around the antenna is OK. Replace, if it is damaged.

4.22 Replacement of modules





4.24 Replacement of modules

Wireless Antennas (disconnect and connect)

Disconnecting Wireless Antennas

- Disconnect antenna wire with the special tool, Extraction jig, U.FL series. Pull gently perpendicular to the PCB89 via the chain.

! When disconnecting antenna wires be careful not to damage the antenna plug or wire.



Connecting Wireless Antennas

- Connect antenna wire by placing the wire connector in correct position on top of PCB connector and press gently until it snap in.

! When connecting antenna wires be careful not to damage the antenna plug or wire.



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Replace tweeter

- 🖙 4.2 Remove cover
- Remove screws



- Gently pull out tweeter
- Disconnect wires and replace tweeter



4.26 Replacement of modules



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Specification guidelines

BeoLab 17

Type survey				
Market		Variant	Type number MK I	Type number MK II
Albania, Andorra, Argentina, Austria, Azerbaijan, Bahrain, Belgium, E Bulgaria, Chile, Côte d'Ivory, Croatia, Czech Republic, Denmark, Egyp Islands, Finland, France, Georgia, Germany, Ghana, Greece, Greenlan Hungary, Iceland, India, Indonesia, Israel, Italy, Jordan, Kazakhstan, L Liechtenstein, Lithuania, Luxembourg, Malaysia, Monaco, Morocco, N Norway, Oman, Pakistan, Peru, Philippines, Poland, Portugal, Qatar, R Saudi Arabia, Serbia, Slovak Republic, Slovenia, Spain, Sweden, Switz Ukraine, United Arab Emirates, Uruguay, Uzbekistan, Vietnam	Botswana, ot, Faroe Id, Holland, atvia, Lebanon, Vamibia, Nigeria, Iomania, Russia, rerland, Turkey,	All	6602	
Algeria, Angola, Argentina, Armenia, Austria, Azerbaijan, Belgium, B Chile, Colombia, Croatia, Cyprus, Czech Republic, Denmark, Ethiopia France, Georgia, Germany, Ghana, Greece, Greenland, Hungary, Icela Indonesia, Iran, Ivory Coast, Italy, Kazakhstan, Kuwait, Latvia, Lebano Luxembourg, Malaysia, Mauritius, Mongolia, Morocco, Monaco, Nam Netherlands, Norway, Pakistan, Philippines, Poland, Portugal, Qatar, R Fed., Saudi Arabia, Serbia, Slovenia, Spain, Sweden, Switzerland, Tha Ukraine, United Arab Emirates, Uruguay, Uzbekistan, Vietnam	All		6622	
Brazil, Canada, Dominican Republic, Mexico, Panama, USA, Virgin Isl	ands	US	6603	
Bermuda, Canada, Dominican Republic, Mexico, NL Antilles, Panama	, USA	US		6623
Ireland, Hong Kong, Kuwait, Singapore, South Africa, United Kingdo	m	GB	6606	
Ireland, Hong Kong, Kuwait, Singapore, South Africa, United Kingdo Africa, Tanzania, Uganda	m, Kenya, South	GB		6624
Australia, New Zealand		AUS	6607	6625
Japan		J	6608	6619
China		CN	6609	6626
Korea		KOR	6612	6627
Thailand		TH	6613	
Taiwan		TWN	6614	
		10010	0014	
Decignor	David Lowis Dosig	nors Torston Va	lour	
Loudspeaker system	Two-way		lieui	
Dimensions (W x H x D)	250 x 320 x 140 m	าฑ	(9.8 x 12.6 x 5.5 i	nch)
Weight	5.5 kg		(12.1 LB)	
Material Colour	Aluminium and co Cabinet: Silver, Bla Cover: Black, Whit Midnight Green, R	mposite materi ck, White e, Blue, Broker umba Red	als ice white, Driftwo	ood, Forged Iron,
	5 .			
Power supply	100-240V AC (± 1	0%), 50/60 Hz		
Power consumption	Typical: 25 watt			
	Standby: 0.4 watt	, E/		
	10-40 C (50-104	1)		
Power amplifiers, Bass	160 W, Class D			
Power amplifier, Tweeter	160 W, Class D			
Effective frequency range*	31.3-24,000 Hz			
Sensitivity**	88 dB SPL re 125 r	mVrms re 1m		
Bass capability	83.6 dB SPL @ 50	Hz		
	2 8 litros			
Bass driver	6"			
High frequency driver	3⁄4″			

5.2 Specification guidelines for service use

Features	Adaptive Bass Linearisation (ABL)
	Room adaptation (Free - Wall - Corner)
	Thermal protection (NTC sensor)
	Line sense - auto on/off
	Wifeless Power Link
Wireless Technology	WiSA™ 5 GHz
*EFFECTIVE FREQUENCY RANGE is measured at -10 dB re. Ref leve	el (200-2000 Hz)
**SENSITIVITY is measured at dB SPL 1 m re 125 mV	
Connections	
MAINS INLET	C8 socket
$\textcircled{\textcircled{0}}$	To see the different types of mains leads, see exploded view in the Retail Ordering System
POWER LINK (X2)	RJ45 sockets
	Pin 1 Not used
	Pin 2 PL_Data
Data GND	Pin 3 Signal GND
1 2 3 4 5 6 7 8 (chassis)	Pin 4 Speaker ON (on=> 2.5V / off=<0.5V via source)
	Pin 5 Not used (PL power up)
	Pin 7 Signal GND
	Pin 8 Audio Left in
SERVICE	RJ45 socket
· · · · · · · · · · · · · · · · · · ·	Pin 1 Not used
	Pin 2 ATI_TX
Data GND	Pin 3 ATI_RX
12345678 (chassis)	Pin 4 ATI_ON
	Pin 5 Not used
	Pin 8 Not used
INPUT L/R	Phono sockets
	Audio in L/R (RCA)
	Input voltage: 0.2 - 2V rms
	Ontical socket
	Optical Socket
	Audio IN
	S/P-DIF
	Ontical socket
	opacal societ
	Audio OUT
	S/P-DIF
Subject to change without notice	

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Block diagram



https://t	peoworld.org		
6	5.2	6.2	6.2



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Alu Cabinet

2/2pins Pxxx 1 Neutral 2 Live







7.1

7.1 Available parts



BeoLab 17 BeoLab 17 MKII

47	0001	2454475	End cons white
.ab 17	9001	3434473	End caps, white
ab 17 MKII	0000	3454476	End Caps, black
	9002	3431757	Cabinet, silver Incl. pos. no. 9004, 9007 and 7, 9, 11, 13, 16
		3431787	Cabinet, black Incl. pos. no. 9004, 9007 and 7, 9, 11, 13, 16
	0000	3431801	Cabinet, white incl. pos. no. 9004, 9007 and 7, 9, 11, 13, 16
	9003	3340500	Holder f/antenna
	9004	33585/3	Heat sink
	9005	1605725	Cover, white (2 pcs.)
		1605726	Cover, black (2 pcs.)
		1605728	Cover, blue (2 pcs.)
		1605782	Cover, broken ice white (2 pcs.)
		1605701	Cover, rumba red (2 pcs.)
		1605703	Cover, driftwood (2 pcs.)
		1605704	Cover, forged iron (2 pcs.)
		1605/05	Cover, midnight green (2 pcs.)
	9006	3340499	Holder f/antenna
	9007	3948076	Tape .
	9008	3160832	Cover f/wire, white
		3160833	Cover f/wire, black
	9009	3332138	Insulation
	9010	3454339	Plate f/antenna
	9011	3375116	Mains cable, EU - 2.5A - 3M
		3375117	Mains cable, UK - 2.5A - 3M
		3375118	Mains cable, US/CDN/TWN - 6A - 3M
		6100331	Mains cable, JPN - 7A - 3M
		3375120	Mains cable, AUS - 2.5A - 3M
		3376477	Mains cable, Korea - 2.5A - 3M
		6100047	Mains cable, China - 6A - 3M
		33/6113	Mains cable, TVVN - 2.5A - T25V - 3IVI
	0012	2/5/0105	Rettomingling ng 8 20 21
		5454575	
	35Module	8007783	PCB35, Amplifier
	82.2Module	e 8720101	PCB, Wireless Antenna
	82.2Module 82.4Module	e 8720101 e 8720102	PCB, Wireless Antenna PCB, Wireless Antenna
	82.2Module 82.4Module	e 8720101 e 8720102	PCB, Wireless Antenna PCB, Wireless Antenna
Survey of screws	82.2Module 82.4Module	2 8720101 2 8720102 2015038	PCB, Wireless Antenna PCB, Wireless Antenna Screw 4 x 30mm
Survey of screws	82.2Module 82.4Module 1 2	2015038 2816497	PCB, Wireless Antenna PCB, Wireless Antenna Screw 4 x 30mm Wire clip
Survey of screws	82.2Module 82.4Module 1 2 3	2015038 2016497 2044090	PCB, Wireless Antenna PCB, Wireless Antenna Screw 4 x 30mm Wire clip Screw 4 x 16mm
Survey of screws	82.2Module 82.4Module 1 2 3 5	2015038 2816497 2044090 2052129	PCB, Wireless Antenna PCB, Wireless Antenna Screw 4 x 30mm Wire clip Screw 4 x 16mm Screw 4 x 10mm
Survey of screws	82.2Module 82.4Module 1 2 3 5 6	2015038 2816497 2044090 2052129 3340579	PCB, Wireless Antenna PCB, Wireless Antenna Screw 4 x 30mm Wire clip Screw 4 x 16mm Screw 4 x 10mm Washer
Survey of screws	82.2Module 82.4Module 1 2 3 5 6 7	2015038 28720102 2015038 2816497 2044090 2052129 3340579 3340495	PCB, Wireless Antenna PCB, Wireless Antenna Screw 4 x 30mm Wire clip Screw 4 x 16mm Screw 4 x 10mm Washer Gasket
Survey of screws	82.2Module 82.4Module 1 2 3 5 6 7 8	2015038 28720102 2015038 2816497 2044090 2052129 3340579 3340495 2013153	PCB, Wireless Antenna PCB, Wireless Antenna Screw 4 x 30mm Wire clip Screw 4 x 16mm Screw 4 x 10mm Washer Gasket Screw 3 x 6mm
Survey of screws	82.2Module 82.4Module 1 2 3 5 6 7 8 9	2015038 28720102 2015038 2816497 2044090 2052129 3340579 3340495 2013153 3376239	PCB, Wireless Antenna PCB, Wireless Antenna Screw 4 x 30mm Wire clip Screw 4 x 16mm Screw 4 x 10mm Washer Gasket Screw 3 x 6mm Gap pad
Survey of screws	82.2Module 82.4Module 1 2 3 5 6 7 8 9 10	2015038 28720102 2015038 2816497 2044090 2052129 3340579 3340495 2013153 3376239 3376238	PCB, Wireless Antenna PCB, Wireless Antenna Screw 4 x 30mm Wire clip Screw 4 x 16mm Screw 4 x 10mm Washer Gasket Screw 3 x 6mm Gap pad Gap pad
Survey of screws	82.2Module 82.4Module 1 2 3 5 6 7 8 9 10 11	2015038 28720102 2015038 2816497 2044090 2052129 3340495 2013153 3376239 3376238 2013188 2622071	PCB, Wireless Antenna PCB, Wireless Antenna Screw 4 x 30mm Wire clip Screw 4 x 16mm Screw 4 x 10mm Washer Gasket Screw 3 x 6mm Gap pad Gap pad Screw 3 x 8mm Can pad 31 x 16mm
Survey of screws	82.2Module 82.4Module 1 2 3 5 6 7 8 9 10 11 12 12	2015038 28720102 2015038 2816497 2044090 2052129 3340579 3340495 2013153 3376239 3376238 2013188 2022071	PCB, Wireless Antenna PCB, Wireless Antenna Screw 4 x 30mm Wire clip Screw 4 x 16mm Screw 4 x 10mm Washer Gasket Screw 3 x 6mm Gap pad Gap pad Screw 3 x 8mm Gap pad 31 x 16mm
Survey of screws	82.2Module 82.4Module 1 2 3 5 6 7 8 9 10 11 12 13 14	2015038 28720102 2015038 2816497 2044090 2052129 3340495 2013153 3376239 3376238 2013188 2622071 2013229 2626002	PCB, Wireless Antenna PCB, Wireless Antenna Screw 4 x 30mm Wire clip Screw 4 x 16mm Screw 4 x 10mm Washer Gasket Screw 3 x 6mm Gap pad Gap pad Screw 3 x 8mm Gap pad 31 x 16mm Screw 3 x 6mm
Survey of screws	82.2Module 82.4Module 1 2 3 5 6 7 8 9 10 11 12 13 14 15	2015038 28720102 2015038 2816497 2044090 2052129 3340495 2013153 3376239 3376239 3376238 2013188 2622071 2013229 2625002 2907445	PCB, Wireless Antenna PCB, Wireless Antenna Screw 4 x 30mm Wire clip Screw 4 x 16mm Screw 4 x 10mm Washer Gasket Screw 3 x 6mm Gap pad Gap pad Screw 3 x 8mm Gap pad 31 x 16mm Screw 3 x 6mm Washer
Survey of screws	82.2Module 82.4Module 1 2 3 5 6 7 8 9 10 11 12 13 14 15 16	2015038 28720102 2015038 2816497 2044090 2052129 3340495 2013153 3376239 3376239 3376238 2013188 2622071 2013229 2625002 3947445 2831039	PCB, Wireless Antenna PCB, Wireless Antenna Screw 4 x 30mm Wire clip Screw 4 x 16mm Screw 4 x 10mm Washer Gasket Screw 3 x 6mm Gap pad Gap pad Screw 3 x 8mm Gap pad 31 x 16mm Screw 3 x 6mm Washer Tape Pin
Survey of screws	82.2Module 82.4Module 1 2 3 5 6 7 8 9 10 11 12 13 14 15 16 17	2015038 28720102 2015038 2816497 2044090 2052129 3340495 2013153 3376239 3376239 3376239 3376238 2013188 2622071 2013229 2625002 3947445 2831039 2013211	PCB, Wireless Antenna PCB, Wireless Antenna Screw 4 x 30mm Wire clip Screw 4 x 16mm Screw 4 x 10mm Washer Gasket Screw 3 x 6mm Gap pad Gap pad Screw 3 x 8mm Gap pad 31 x 16mm Screw 3 x 6mm Washer Tape Pin Screw 4 x 20mm
Survey of screws	82.2Module 82.4Module 1 2 3 5 6 7 8 9 10 11 12 13 14 15 16 17 18	2015038 28720102 2015038 2816497 2044090 2052129 3340495 2013153 3376239 3376239 2013188 2622071 2013229 2625002 3947445 2831039 2013211 2042047	PCB, Wireless Antenna PCB, Wireless Antenna Screw 4 x 30mm Wire clip Screw 4 x 16mm Screw 4 x 10mm Washer Gasket Screw 3 x 6mm Gap pad Gap pad Screw 3 x 8mm Gap pad 31 x 16mm Screw 3 x 6mm Washer Tape Pin Screw 4 x 20mm Screw 4 x 10mm
Survey of screws	82.2Module 82.4Module 1 2 3 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	2015038 28720102 2015038 2816497 2044090 2052129 3340495 2013153 3376239 3376239 3376238 2013188 2622071 2013229 2625002 3947445 2831039 2013211 2042047 2013137	PCB, Wireless Antenna PCB, Wireless Antenna Screw 4 x 30mm Wire clip Screw 4 x 16mm Screw 4 x 10mm Washer Gasket Screw 3 x 6mm Gap pad Gap pad Screw 3 x 8mm Gap pad 31 x 16mm Screw 3 x 6mm Washer Tape Pin Screw 4 x 20mm Screw 4 x 10mm Screw 3 x 10mm
Survey of screws	82.2Module 82.4Module 1 2 3 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	2015038 28720102 2015038 2816497 2044090 2052129 3340495 2013153 3376239 3376239 3376238 2013188 2622071 2013229 2625002 3947445 2831039 2013211 2042047 2013137 2930178	PCB, Wireless Antenna PCB, Wireless Antenna Screw 4 x 30mm Wire clip Screw 4 x 16mm Screw 4 x 10mm Washer Gasket Screw 3 x 6mm Gap pad Gap pad Screw 3 x 8mm Gap pad 31 x 16mm Screw 3 x 6mm Washer Tape Pin Screw 4 x 20mm Screw 4 x 10mm Screw 3 x 10mm Bushing
Survey of screws	82.2Module 82.4Module 1 2 3 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	2015038 28720102 2015038 2816497 2044090 2052129 3340495 2013153 3376239 3376239 3376238 2013188 2622071 2013229 2625002 3947445 2831039 2013211 2042047 2013137 2930178 7530119	PCB, Wireless Antenna PCB, Wireless Antenna Screw 4 x 30mm Wire clip Screw 4 x 16mm Screw 4 x 10mm Washer Gasket Screw 3 x 6mm Gap pad Gap pad Screw 3 x 8mm Gap pad 31 x 16mm Screw 3 x 6mm Washer Tape Pin Screw 4 x 20mm Screw 4 x 10mm Screw 4 x 10mm Screw 3 x 10mm Bushing Cable tie
Survey of screws	82.2Module 82.4Module 1 2 3 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	2015038 28720102 2015038 2816497 2044090 2052129 3340495 2013153 3376239 3376239 3376238 2013188 2622071 2013229 2625002 3947445 2831039 2013211 2042047 2013137 2930178 7530119 2042064	PCB, Wireless Antenna PCB, Wireless Antenna Screw 4 x 30mm Wire clip Screw 4 x 16mm Screw 4 x 10mm Washer Gasket Screw 3 x 6mm Gap pad Gap pad Screw 3 x 8mm Gap pad 31 x 16mm Screw 3 x 6mm Washer Tape Pin Screw 4 x 20mm Screw 4 x 10mm Screw 4 x 10mm Screw 4 x 10mm Screw 4 x 10mm
Survey of screws	82.2Module 82.4Module 1 2 3 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 25	2015038 28720102 2015038 2816497 2044090 2052129 3340495 2013153 3376239 3376239 3376238 2013188 2622071 2013229 2625002 3947445 2831039 2013211 2042047 2013137 2930178 7530119 2042064 2052040	PCB, Wireless Antenna PCB, Wireless Antenna Screw 4 x 30mm Wire clip Screw 4 x 16mm Screw 4 x 10mm Washer Gasket Screw 3 x 6mm Gap pad Gap pad Screw 3 x 8mm Gap pad 31 x 16mm Screw 3 x 6mm Washer Tape Pin Screw 4 x 20mm Screw 4 x 20mm Screw 4 x 10mm Screw 3 x 10mm Bushing Cable tie Screw 4 x 16mm Screw 3 x 8mm
Survey of screws	82.2Module 82.4Module 1 2 3 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 25 70	2015038 28720102 2015038 2816497 2044090 2052129 3340579 3340495 2013153 3376239 3376239 3376238 2013188 2622071 2013229 2625002 3947445 2831039 2013211 2042047 2013137 2930178 7530119 2042064 2052040 2054072	PCB, Wireless Antenna PCB, Wireless Antenna Screw 4 x 30mm Wire clip Screw 4 x 16mm Screw 4 x 10mm Washer Gasket Screw 3 x 6mm Gap pad Gap pad Screw 3 x 8mm Gap pad 31 x 16mm Screw 3 x 6mm Washer Tape Pin Screw 4 x 20mm Screw 4 x 20mm Screw 4 x 10mm Screw 3 x 10mm Bushing Cable tie Screw 4 x 16mm Screw 4 x 35mm
Survey of screws	82.2Module 82.4Module 1 2 3 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 25 70 71	2015038 28720102 2015038 2816497 2044090 2052129 3340579 3340495 2013153 3376239 3376239 3376238 2013188 2622071 2013229 2625002 3947445 2831039 2013211 2042047 2013137 2930178 7530119 2042064 2052040 2054072 2622338	PCB, Wireless Antenna PCB, Wireless Antenna Screw 4 x 30mm Wire clip Screw 4 x 16mm Screw 4 x 10mm Washer Gasket Screw 3 x 6mm Gap pad Gap pad Screw 3 x 8mm Gap pad 31 x 16mm Screw 3 x 6mm Washer Tape Pin Screw 4 x 20mm Screw 4 x 20mm Screw 4 x 10mm Screw 3 x 10mm Bushing Cable tie Screw 4 x 16mm Screw 4 x 35mm
Survey of screws	82.2Module 82.4Module 1 2 3 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 25 70 71 72	2015038 28720102 2015038 2816497 2044090 2052129 3340579 3340495 2013153 3376239 3376239 3376238 2013188 2622071 2013229 2625002 3947445 2831039 2013211 2042047 2013137 2930178 7530119 2042064 2052040 2054072 2622338 3340579	PCB, Wireless Antenna PCB, Wireless Antenna Screw 4 x 30mm Wire clip Screw 4 x 16mm Screw 4 x 10mm Washer Gasket Screw 3 x 6mm Gap pad Gap pad Screw 3 x 8mm Gap pad 31 x 16mm Screw 3 x 6mm Washer Tape Pin Screw 4 x 20mm Screw 4 x 20mm Screw 4 x 10mm Screw 3 x 10mm Bushing Cable tie Screw 4 x 16mm Screw 4 x 35mm Washer Vasher
Survey of screws	82.2Module 82.4Module 1 2 3 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 25 70 71 72 73	2 8720101 2 8720102 2 8720102 2 8720102 2 8720102 2 8720102 2 8720102 2 8720102 2 8720102 2 8720102 3 340495 2 013153 3 376239 3 376239 3 376239 3 376238 2 013153 2 013217 2 013229 2 625002 3 947445 2 831039 2 013211 2 042047 2 013137 2 930178 7 530119 2 042064 2 052040 2 054072 2 622338 3 340579 2 814000	PCB, Wireless Antenna PCB, Wireless Antenna Wire clip Screw 4 x 16mm Screw 4 x 10mm Washer Gasket Screw 3 x 6mm Gap pad Gap pad Screw 3 x 8mm Gap pad 31 x 16mm Screw 3 x 6mm Washer Tape Pin Screw 4 x 20mm Screw 4 x 20mm Screw 4 x 10mm Screw 3 x 10mm Bushing Cable tie Screw 4 x 16mm Screw 3 x 8mm Screw 4 x 16mm Screw 5 x 8mm Screw 7 x 8
Survey of screws	82.2Module 82.4Module 1 2 3 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 25 70 71 72 73 74 4 7 7 7 7 7 7 7 7 7 7 7 7 7	2015038 28720102 2015038 2816497 2044090 2052129 3340579 3340495 2013153 3376239 3376239 3376238 2013188 2622071 2013229 2625002 3947445 2831039 2013211 2042047 2013137 2930178 7530119 2042064 2052040 2054072 2622338 3340579 2814000 2038137	PCB, Wireless Antenna PCB, Wireless Antenna Wire clip Screw 4 x 10mm Washer Gasket Screw 3 x 6mm Gap pad Gap pad Screw 3 x 8mm Gap pad 31 x 16mm Screw 3 x 6mm Washer Tape Pin Screw 4 x 20mm Screw 4 x 20mm Screw 4 x 10mm Bushing Cable tie Screw 4 x 16mm Screw 4 x 35mm Washer Clip Screw 3 x 6mm

7.3 Available parts

Top chassis



Тор

chassis	9020	3340582	Metal plate - before serial no. 23923287
		3340593	Metal plate - from serial no. 23923287
	9021	3340552	Gasket
	9022	3321909	Insulation
	9025	3454339	Plate f/antenna
	9026	3459674	Top incl. pos. no. 9021, 9023 and 15, 20, 25, 27, 30, 31
	9027	3340377	Gasket f/AC inlet
	02Module	8007883	PCB02, Connector
	82.3Module	e 8720101	PCB, Wireless Antenna
	W2	6278870	Wire, mains inlet
Survey of screws etc.	15	3947445	Таре
	19	2013137	Screw 3 x 10mm
	20	2930178	Bushing
	25	2052040	Screw 3 x 8mm
	26	3340354	Gasket
	27	3947269	EMC gasket
	28	2620020	Washer
	29	2930112	Gasket
	30	3912015	Felt
	31	3332078	Таре

7.5 Available parts

Chassis



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Chassis

9030	3153728	Holder
9031	3321873	Light guide
9032	3340496	Sealing
9033	3454339	Plate f/antenna
9034	3152823	Cable tie
9035	3160817	Insulation
9036	3321872	Shielding plate
9037	8480516	Woofer
9038	8480436	Tweeter
9039	3340581	Baffle incl. 2 x pos. no. 50
04Module	8007885	PCB04, Power Supply – Remember to order pos. no. 9034
30Module	8007882	PCB30, Digital Sound Engine
47Module	8007884	PCB47, LED Indicator
48Module	8007163	PCB48, NTC
82.1Module	e 8720101	PCB, Wireless Antenna
89Module	8007780	PCB89, Wireless Power Link Rx

Survey of screws etc.

8	2013153	Screw 3 x 6 mm
19	2013137	Screw 3 x 10mm
25	2052040	Screw 3 x 8mm
35	2625007	Washer
36	3440209	Sealing
37	2576240	Spacer
38	2622039	Washer
39	3153799	Cable clamp
40	2058158	Screw 3 x 16mm
41	6718011	Ferrite core
42	7530118	Cable tie
43	2576376	Rubber spacer
44	2015144	Screw 3.5 x 12mm
45	2038118	Screw 3 x 6mm
46	2816442	Spring
50	3340483	Gasket
80	3947445	Таре

7.7 Available parts

Wires	W1 6033084	Wire, GND
See page 6.3	W2 6278870	Wire, Mains inlet
	W3 6033084	Wire, GND
	W4 6278904	Wire bundle, PSU-DSE-AMP
	W5 6200538	Wire, 30 pole
	W6 6200537	Wire, 24 pole
	W7 6278873	Wire, DSE-AMP
	W8 6278874	Wire, AMP-SPK
Parts not shown	3658262	Product cover (2 pcs.)
	3506000	Template – 20°
	3506001	Template – 0°
	3040057	Allen key
	3634090	Extraction Jig, U.H. series
Packing	3393978	Packing, complete
Back-up suitcase	3395695	Back-up suitcase
ServiceTool	6271208	ServiceTool cable USB – RJ45 female
Guide	Can be or	dered from the Retail System / BeoWise

BANG & OLUFSEN

Floor Base - type 2113 1211313 Silver 1211326 Black



18 55	2042047 3103511	Screw 4 x 10mm Bumper
	3393983	Packing
	3040057	Allen key
Guide	Can be do	wnloaded from BeoWise

Wall Bracket - type 2114 1211413 Silver



7.9 Available parts



Floor Stand, high - type 2112 1211213 Silver	9050 9051*	3321989 3321627 3321936	Top plate, silver Top plate, black Locking piece – Remember to order pos, po, 9050
1211226 Black	9052*	3153829	Interface floor stand – Remember to order pos. no. 9050
	9053*	2950338	Tube, silver – Remember to order pos. no. 9050
		2950358	Tube, black – Remember to order pos. no. 9050
	9054	3321987	Foot plate, silver, complete – A
		3322310	Foot plate, black, complete – A
	9055	3321988	Foot plate, silver, complete – B
		3322311	Foot plate, black, complete – B
	60	2042062	Screw 4 x 35mm
	61	3103510	Bumper
	62	3153802	Wire bracket
	63	2576405	Spacer
	64	2042070	Screw 4 x 8mm
		3393981	Packing, complete
		3040057	Allen key
	Guide	Can be dov	vnloaded from BeoWise

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