

WALL-BRACKET/CHARGING SHELF



OB WB

FOR MEDICAL SUCTION UNITS OB2012, OB1000 and OB3000

USER MANUAL



MANUFACTURED BY:



INDEX

INDEX	3
SYMBOLS.....	4
WARNINGS, PRECAUTIONS AND IMPORTANT INFORMATION	5
IMPORTANT INFORMATION	5
OB WB WALL BRACKET	6
DESCRIPTION AND INTENDED USE STATEMENT	6
CONTROLS AND ELECTRICAL CONNECTIONS	6
INSTALLATION OF THE WALL BRACKET	7
CONNECTION OF THE POWER CABLE.....	10
ANCHORAGE OF THE OB2012 SUCTION UNIT.....	11
TEST OF THE DEVICE.....	11
MAINTENANCE AND REUSE.....	12
AFTER INSTALLATION OF THE UNIT	12
CLEANING	12
POWER CONTROL.....	12
SAFETY.....	13
DISASSEMBLING OF THE DEVICE AND DISCONNECTION OF THE POWER CABLE	13
DISPOSING OF THE WALL BRACKET	13
SPARE PARTS	13
SERVICE.....	14
TECHNICAL DATA.....	14
GUARANTEE.....	15
DECLARATION OF CONFORMITY	16

SYMBOLS

S.1 Symbols used on the device and recalled in the user manual

	Read the user manual
	Follow the instructions for use
	CE mark perform to the MDD 93/42/EEC for Medical devices with class above I
	Manufacturer
	Date of production
	The device contains electrical and/or electronic equipment that must be recycled per EC Directive 2012/19/EC – Waste Electrical and Electronic Equipment (WEEE)
	The materials composing the device can be recycled following specific procedures provided by national laws and local regulations.
	The device complies to the European Directive 2011/65/UE (RoHS)

S.2 Symbols used in the user manual to recall the reader's attention

	Important safety information to avoid the risk of injury to the user or patient and / or damage to the device
	Information to which you should pay special attention
	Note or information for correct use of device

WARNINGS, PRECAUTIONS AND IMPORTANT INFORMATION



Read carefully

This User Manual has been prepared using simple, easy-to-understand language. If you have difficulty interpreting the above, contact the manufacturer for further clarification



Tel.: +39 0471 932893



info@boscarol.it
raq@boscarol.it

- Read carefully these instructions before installation and using the OB WB.
- The Wall Bracket is for fixing the suction units OB2012, OB1000 and OB3000 on walls of ambulances, hospitals, surgery vehicles and other medical structures.
- The Wall Bracket can charge the internal battery of the suction unit, if linked with the cable to an external source.
- The installation of the Wall Bracket should be made following the instructions of this user manual, otherwise it could hurt the international norm UNI EN 1789:2014 (construction of surgery vehicles) and reduce the security of the device.
- Do not alter the mechanical and the electrical parts of the wall bracket, because it could influence the security of the device in case of accidents or collisions of surgery vehicles (ambulances).
- The device doesn't need any technical intervention from the user. The only allowed operations are these indicated in this user manual. Please contact the authorized customer service for any technical problem, for the periodic revision and for reparations.
- Use only original and authorized spare parts furnished from the manufacturer (Oscar Boscarol srl) to have always the maximum security and efficiency on the device.
- Never take away or modify the metal spring to guaranty the resistance to negative acceleration forces (max. 20g) of the device.



WARNING!

Never connect the bracket cable to the main power source. The bracket is designed and produced to support only "SELV" (Super extra Low Voltage) voltages!

IMPORTANT INFORMATION



Note:

The device was designed and tested per the latest regulatory standards. The electrical connection of the device to non-compliant electrical systems and / or otherwise not performed by professional installer can damage device and the electrical system. Please always consult a qualified staff with knowledge of the latest provisions!

Preventive maintenance and safety inspection:



The device should be checked at least once every 12 months from the authorized service center. Every 60 months an inspection of safety and technical maintenance is required instead. Refer to authorized service centers for planning of inspection. The periodic safety inspection of the device does not fall under warranty. The lifetime of the device is 18 years if all the safety checks and maintenance suggested in this manual are carried out.

Contamination of the device:



It is strictly forbidden to send contaminated devices to the manufacturer, installer or service centres. Each device in these conditions will be refused and health authorities will be informed about possible contamination.

OB WB WALL BRACKET



INSPECT THE DEVICE AND ALL ITS PARTS BEFORE USING.

DO NOT USE THE DEVICE IF IT HAS DAMAGED OR MISSING PARTS.

Description and intended use statement

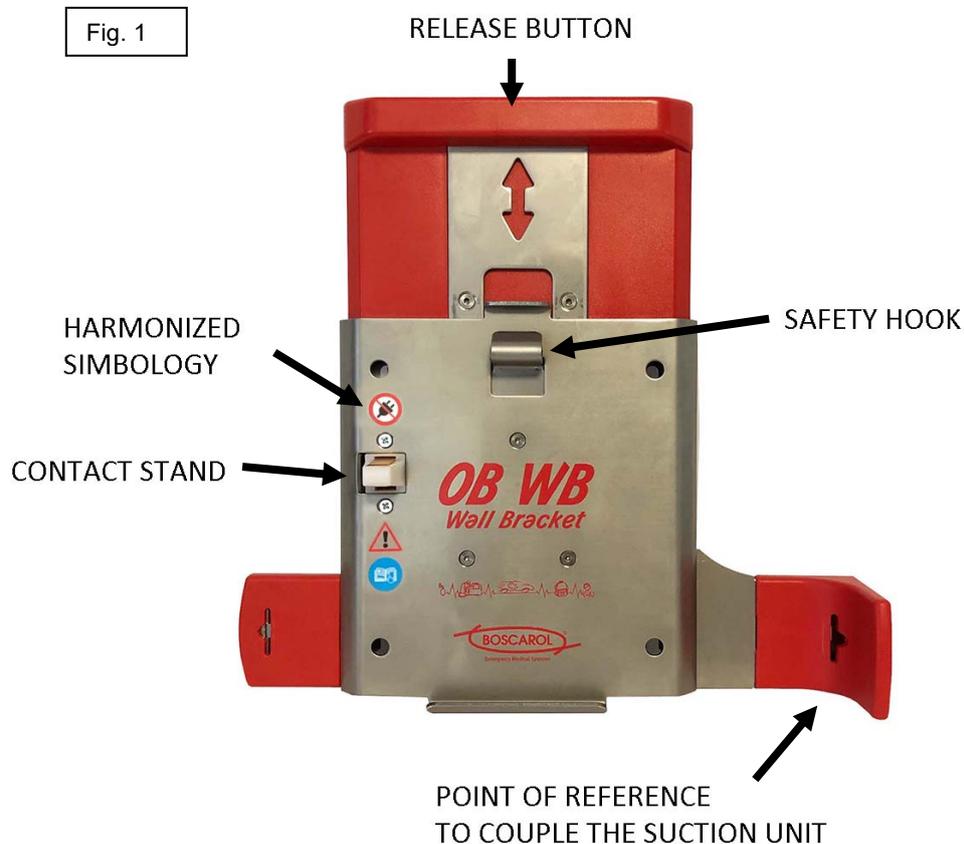
The wall-bracket OB WB is engineered for the fixing of the suction units OB2012, OB1000 and OB3000 on a wall. It can be installed in surgery vehicles, hospitals and/or ambulances. The unit has got an electric cable, which can charge the internal battery of the suction unit when connected to a direct-current source (SELV):

- Suction units OB 1000 and OB 2012 → 12 Vcc (12 V direct current)
- Suction unit OB 3000 → from 10 to 30 Vcc (direct current)

Simple fixing, security and conformity to the actual norms guarantee an easy use and protection in case of collisions or accidents of the surgery vehicle. The insertion and the extraction of the suction unit is possible with a special button on the wall bracket. The holding system of the wall bracket guarantees a resistance to negative acceleration forces up to 10g (UNI EN 1789:2014).

Controls and electrical connections

The Wall Bracket OB WB is mainly made of two metal parts and one button (ABS-plastic material) for blocking or unblocking the unit. The two metal parts, together with a calibrated spring, make an easy fixing of the suction unit OB2012 possible. The picture 1 shows the wall bracket with all its parts.



The charging system (contact stand) has been designed to make short circuits between the two contacts very improbable. The two contacts are made of stainless steel which is resistant to the permanent taking-in and taking-out of the suction unit. The electric cable of the wall bracket is double-isolated and has to be connected always with an external electric source (direct current) protected with a security (a self-resettable 15 A fuse is recommended).

Installation of the wall bracket

Before installing the wall bracket, make sure that space can also allow the housing of the suction unit (for the maximum size see Figure 2). Any installation in emergency vehicles (ambulance, heli-rescue, air transport sick) should be carried out at a height not exceeding 130cm to allow easy connection and disconnection of the device (considered to the weight of the device about 4.6 kg).

MAX. DIMENSIONS OF THE OB2012 WITH OB WB

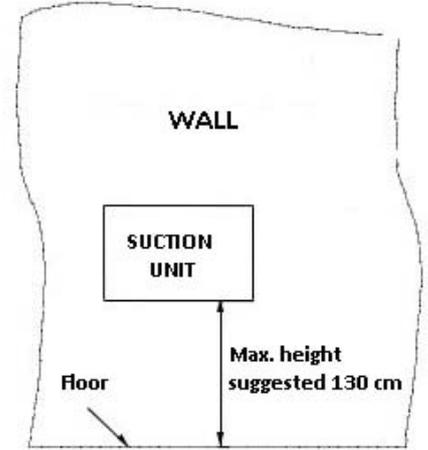
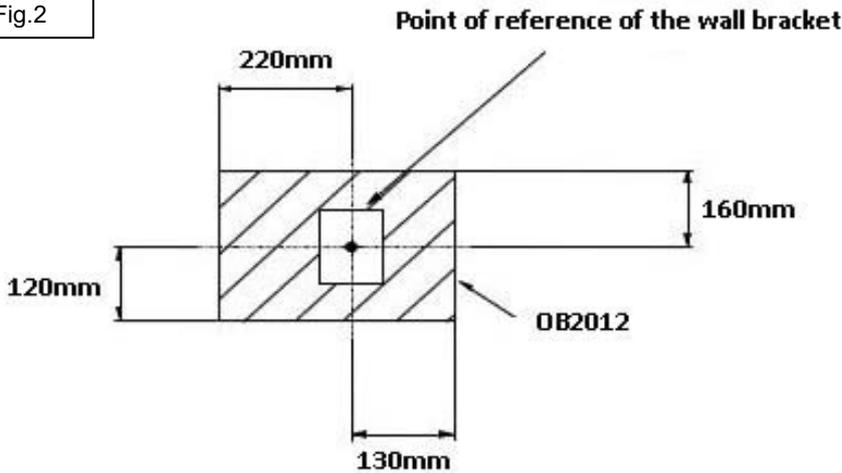
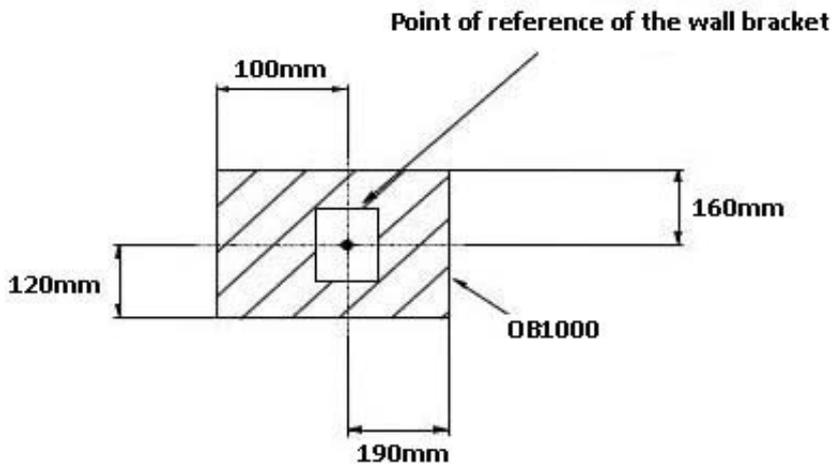


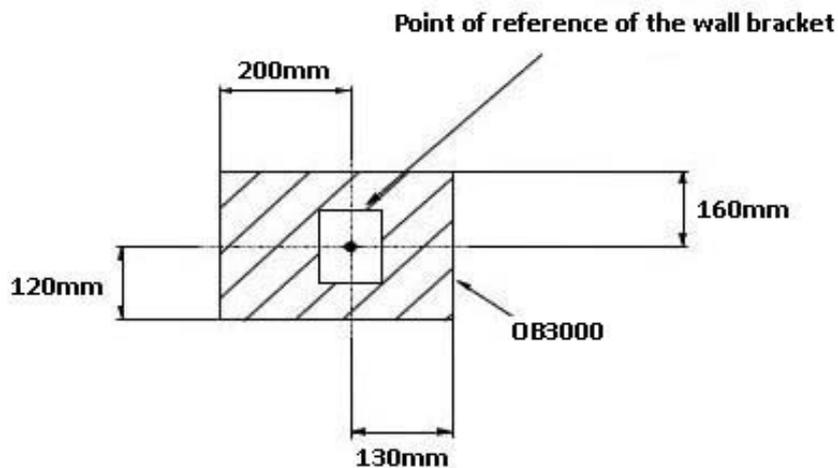
Fig.2



MAX. DIMENSIONS OF THE OB1000 WITH OB WB

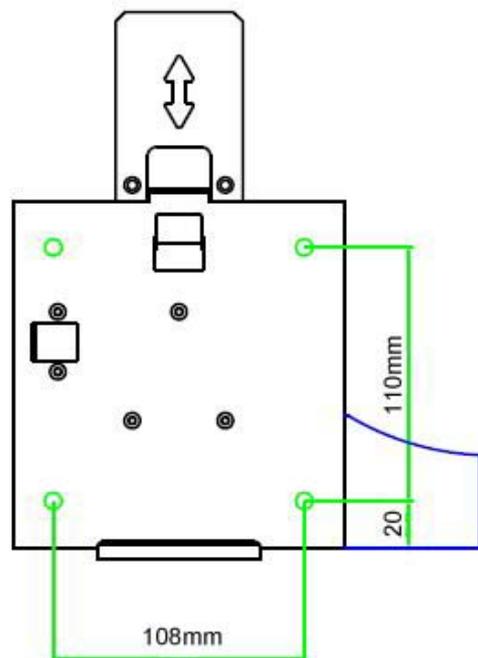


MAX. DIMENSIONS OF THE OB3000 WITH OB WB



Sign the position of the holes on the wall (see Figure 3).

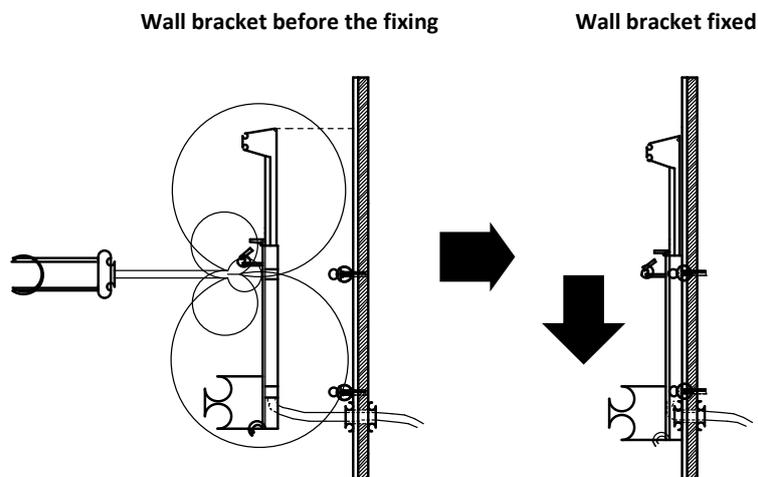
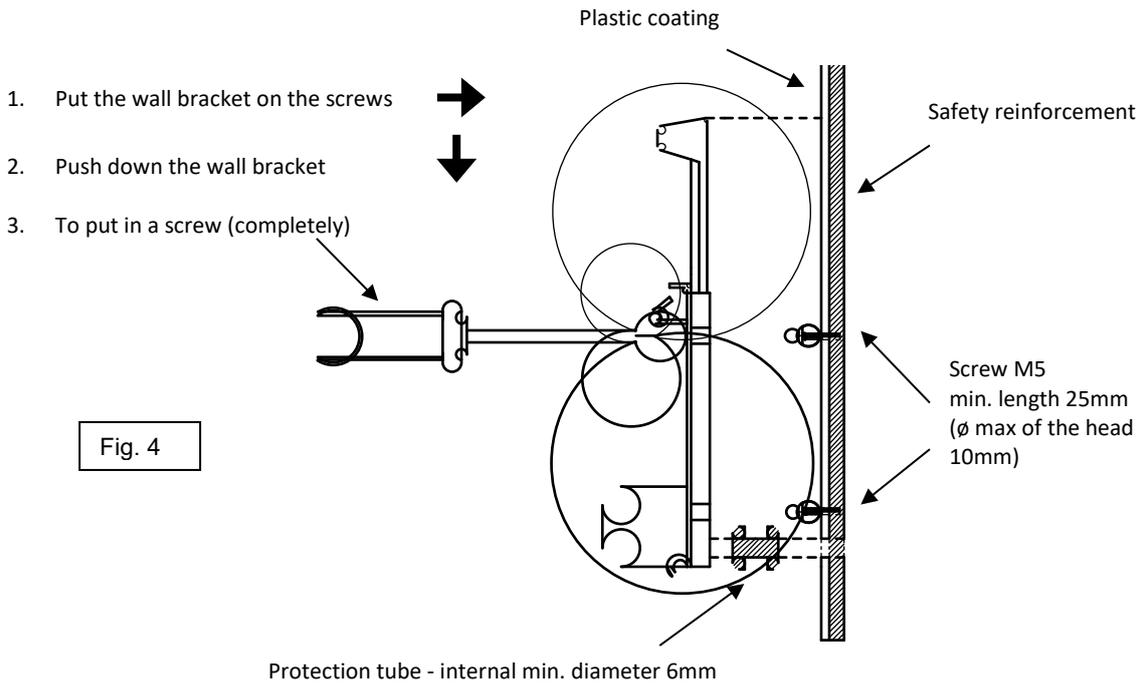
Fig.3



Sign in the hole for the power cable (min. diameter 8mm). Refer to the Figure 3 for the best understanding. Before to insert the cable trough the wall, use apposite cable protection-tubes (see Figure 4) to prevent damage on the insulation of the cable.

After fixing screws on the wall (not completely, leaving the head at least 5mm from the wall), insert the power cable into the hole. Insert the wall bracket on the protruding screws. Push the wall bracket down and fix totally the screws. We suggest using special substances to prevent screws work loose.

Refer to the illustrations on the following page and, if necessary, send an email to the address: service.manager@boscarol.it or call +39 0471932893 and ask for the technical office.



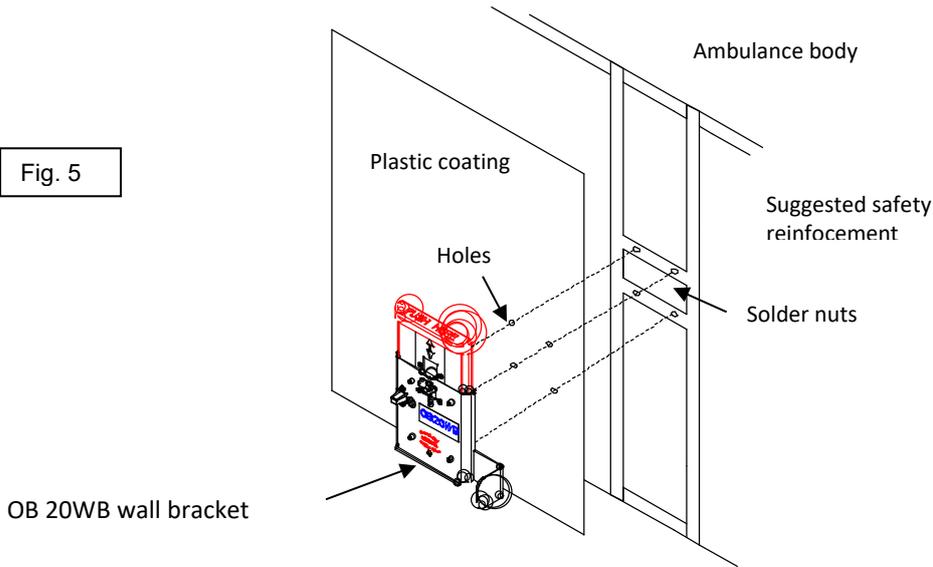
Press on the wall and pull down

The wall bracket must be fixed on a structure that has previously been checked as suitable. Fixing the device only to the plastic wall of the vehicle means, in fact, **not having it fixed**.

The international standard EN 1789 which specifies how to prepare emergency vehicles is very clear in this regard and obliges all ambulance maker to perform static calculations and crash tests to all the devices installed on the vehicle. **Oscar Boscarol srl is not responsible for failure to comply with what is specified!**

A suitable metal reinforcement under the covering wall (see figure 5), complete with threaded nuts (for fixing the bracket screws). This reinforcement must be properly designed in order to guarantee a perfect seal, in case of negative accelerations up to 10g, as described in the most recent standard EN 1789:2014 (preparation of ambulances and emergency vehicles).

Fig. 5



- To correct defects or irregularities in the wall thickness of coating, use the plastic spacers.
- To fixing the wall bracket use the screws type M5 round head, a length of not less than 25mm (stainless steel).
- Don't enlarge the holes of the wall-bracket.
- Do not alter and / or deform the seal hook, spring safety and / or electrical contacts.
- After mounting, make sure the proper sliding of the moving parts, pressing the button in red plastic.

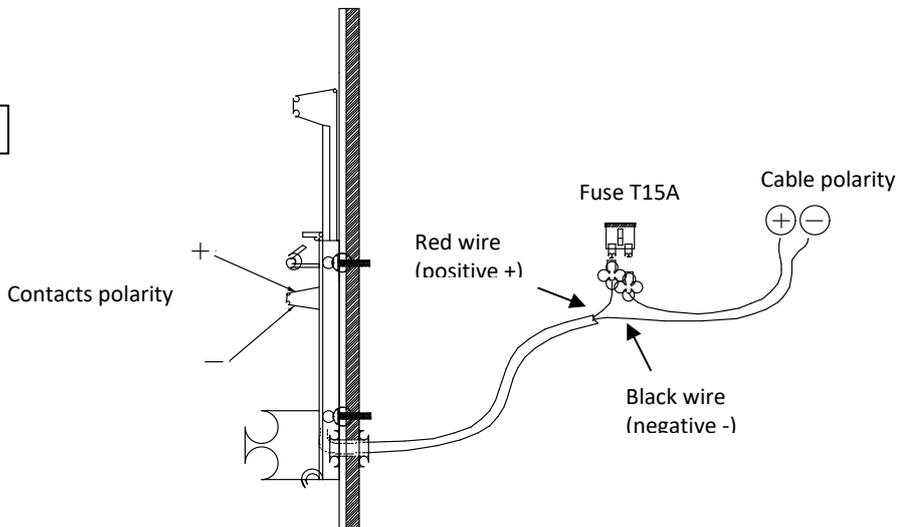


Don't force the wall bracket to enter screws (for example due to bad hole or moved).

Connection of the power cable

After fixing the wall-bracket on the wall, and verifying the correct functioning, connect the electric cable with the power source (12Vdc for OB2012 and OB1000 suction units and 11±30Vdc for OB3000 suction unit). Connect the "plus" cable always with a fuse with at least T15A (delayed operation). This security operates in case of short circuits, wrong operation of the bracket and/or the connected suction unit. Please control always the right polarity. In case of wrong connection, it is not possible to recharge the internal battery of the suction unit (control the LED on the front of the suction unit). Refer to fig. 6 for the right connections.

Fig.6





WARNING

The electrical connections must always be performed by authorized personnel. Even if it's low voltage power, the consequences of the possibility of short circuit can cause serious damage to people and things (fire hazard, etc.). Always connect, in series to the positive supply (red cable), a fuse, as shown in Figure 6.

Anchorage of the suction unit

The wall bracket has been planned and constructed to fix the suction units (OB2012, OB1000 and OB3000) produced by Oscar Boscarol company, on walls. No other type of medical suction unit can be fixed to the wall bracket system.

The next figures show how to insert the suction unit in the wall-bracket.



Blocking and unblocking operations of the OB2012 suction unit:

- Take the suction unit OB2012 with both hands (refer to picture 1).
- Lay the inferior ground part of the suction unit on the wall-bracket like indicated in picture 2 and push it in vertical position. With the hand inserted in the sleeve push the button and leave it, when completely inserted in the wall-bracket. Before you take the hands away ensure the right fixation (pulling the suction unit lightly in front it should be blocked).
- The final position of the suction unit is indicated in picture 3.
- To take the unit out of the wall-bracket insert the hand in the sleeve and push the button with the fingers to unblock the unit. After that, take the unit out.



Never force insertion the suction unit in the wall-bracket.

Test of the device

The test-operations allow the user to verify the right operation of the unit, the recharging of the unit and/or the necessity of the intervention of the service-centre. This control should be made at least once a day and, in any case, once a week:

- Verify the operation of the wall-bracket pushing the button (without the suction unit). The movement should be easy and without impediments. Be sure, that the metal spring is well fixed.
- Eliminate substances that might prevent the regular sliding of the moving part of the bracket connected to the red ABS button.
- Always make sure that the fixing screws are fully tightened (using a screwdriver with a diameter suitable for the screw).
- Make sure that the two red plastic tabs are fully inserted into the metal housings provided.
- Connect the suction unit on the wall-bracket (refer to picture above).

- Verify the lighting of the lightning indicator on the front of the suction unit OB2012.

WARNING



In case of negative results after the action above mentioned, send the unit to the authorised service centre.

Never change the metal parts, the contact and/or force the parts with utilities, tools, the alteration of the wall-bracket and/or its mechanical and electric parts influences heavily the safety and the efficiency of the device!

MAINTENANCE AND REUSE

After installation of the unit

Please verify always the lighting of the LED on the front of the suction unit, which shows you, that the internal battery is being recharged. If used in a surgery vehicle, after the use, verify always the fixing of the suction unit in the wall-bracket. In case of accidents or collisions, contact always the authorized service-centre to verify the unit and the wall-bracket.

Cleaning

The wall-bracket normally does not need any particular cleaning. If contaminated with organic substances, (inside an ambulance) act as follows:

- Disconnect the security or the charging cable of the wall-bracket.
- Blow all the parts of the bracket with a compressed air source.
- Use non-aggressive disinfectants to clean the bracket (do not use colored disinfectants that could stain and oxidize the metal of the bracket).
- Dry up all the parts and reconnect the charging cable.
- Perform all the tests described on page 11.

To correctly disinfect and decontaminate the wall bracket, we recommend using specific, approved products. These disinfectants must be free of alcoholic and/or abrasive substances. Oscar Boscarol srl can provide specific materials for disinfection of medical equipment, including our suction units. These disinfectants, available in different formats (wipes, spray, liquids), have been laboratory tested and guaranteed to deactivate viruses, bacteria and microorganisms. When used periodically, they destroy and prevent the formation of dangerous biofilms (superficial layers that easily host bacteria, moulds, viruses and microorganisms). Our disinfectants do not contain alcohol, chlorine, phenols, aldehydes and halogens.



NOTE

For more detailed information, contact us at info@boscarol.it visit our website www.boscarol.it.



WARNING

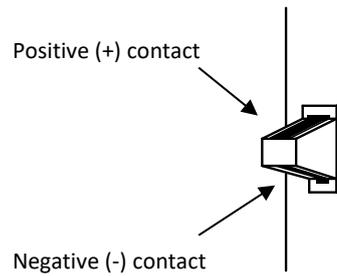
In case of oxidation or alteration of the contacts refer to an authorized service centre.

Power control

The wall bracket has been designed for the recharge of the OB2012, OB1000 and OB3000 suction units. The supply voltage must be between 12 and 15 Vdc for the OB2012 and OB1000 models and between 11 and 30 Vdc for the OB3000. Any electrical checks on the vehicle's fuel system must always be carried out by trained and authorized personnel.

To check the voltage on the contacts, use a voltmeter and place the test leads on the upper and lower contacts. The measured voltage must be that indicated in this user manual and in the following figure.

Contacts polarity on the OB 20WB wall bracket



Safety

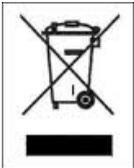
The wall-bracket was constructed to support the weight of the suction unit. Static accounts prove and a crash test performed by laboratories (TÜV), declare the wall bracket OB WB resistant to negative acceleration forces up to 20g. The contacts were constructed to prevent short circuits. As anticipated, it is obligatory to connect the “plus” cable always with a fuse with the value of T15A (refer to fig. 6).

Disassembling of the device and disconnection of the power cable

In case of substitution or disassembling of the wall-bracket act as follows:

- Disconnect the charging cable (refer to authorized personal)
- Take the screws out of the wall-bracket and store them in a sure place
- After that, take out the inferior screws of the wall-bracket, the charging cable and store them in a sure place.

Disposing of the wall bracket



The device contains electrical equipment that must be recycled according to EC Directive 2012/19/EU – Waste Electrical and Electronic Equipment (WEEE) enacted in Italy with Leg. Decree 49/2014. The device is also compliant with Directive 2011/65/EC which restricts and prohibits the use of certain hazardous substances in electrical and electronic equipment. Harmful substances that violate the above Directive are not used in the production and assembly of electronic boards or in the wiring and connection of electric cables.



SPARE PARTS

Index code	Description
--	User manual - can be downloaded from www.boscarol.it
SPS8003	Power cable for OB WB
SPS8004	Contacts for OB WB – 4 pcs
SPS8006	Contact stand kit (includes 1x plastic contact stand, 2x contacts, washers and screws)
SPS8012	Kit plastic red tabs



NOTE

The parties listed in the list may be changed without prior notice from the manufacturer and / or technical improvements. Contact the manufacturer for more information.

SERVICE

There are no serviceable electrical and/or mechanical components in the OB WB wall-bracket which could be repaired from the dealer, client and/or the user. Don't disassemble or distort the electric and/or mechanical parts. Refer always to the authorized service centre or to the manufacturer to receive a list of the authorized service centres. Each intervention, even if not important for the right operations on the unit, declines immediately the guarantee and not guarantees the technical requirements scheduled on the 93/42/CEE, the specific norm ISO 10079-1:2009 and the norm UNI EN 1789:2014.

TECHNICAL DATA

Dimensions	
Max. dimensions :	240mm (l) x 250mm (h) x 50mm (d)
Weight:	789 g max with accessories
Tolerance max on all measures:	±5%
Power supply	
Working:	12÷15Vdc (direct current) for OB2012 and OB1000 suction units 11÷30 Vdc (direct current) for OB3000 suction unit
Fuses:	external in series to the plus-cable (red) 15AT (connected by the user)



NOTE

The external power source must supply at least 6ADC for the working and the recharging of the internal battery.

Environmental and transport conditions	
Running temperatures:	0÷50°C
Suggested temperature for charging:	15÷30°C
Storage temperatures (with original packaging):	-30÷60°C
Storage temperatures (without packaging):	-30÷60°C
Relative humidity for running or storage:	5÷95%

GUARANTEE

The Oscar Boscarol srl supplies the OB WB wall bracket with a 24-month guarantee from the date of purchase. Oscar Boscarol srl guarantees that each new OB WB wall bracket is free from defects in materials and workmanship.

Items excluded from this guarantee are contacts stand, power cable, the normal wear and tear of the unit, discoloration, colour alteration and all the other aesthetical irregularity which do not produce degradations on the operation of the wall bracket

The defect device should be returned to the manufacturer or the authorized representative including a writing note about the defect on the unit. Returned to Oscar Boscarol company, the factory will arrange for repairs or replacement within the terms of this guarantee. All costs for the shipment (postal and/or courier) are at sender expense

Conditions of guarantee:

To use the warranty, it is necessary to fill in and return the product registration form below, via post, fax or mail, to the following address:

OSCAR BOSCAROL SRL V. E. Ferrari, 29 – 39100 BOLZANO - ITALY
Fax: +39 0257760142 – E-mail: production.manager@boscarol.it

To validate the guarantee, the customer shall provide the following documentation:

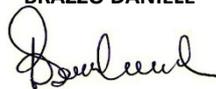
- presentation of a copy of the invoice and / or declaration of purchase containing the device serial number and date of purchase;
- recognition by the service of a failure or defect attributable to defects in materials or workmanship;
- no modifications, changes and / or anything not conforming to the original product.

For all legal purposes, Oscar Boscarol srl is responsible for the safety and operation of the unit only if:

- All technical operations, repairs, modifications and maintenance actions are carried out at the Oscar Boscarol srl factory or by an authorised service centre.
- The device is used correctly, as indicated in this user manual.
- The device is only to be connected to the correct voltage supply for the Country it was supplied.

Regarding what was described in these guarantee conditions, Oscar Boscarol Company cannot be responsible for accidental or indirect damage resulting from unauthorised modification or repair, unauthorised technical interventions or when any parts of the unit are damaged in instances of accidental or incorrect use. On the OB WB suction unit are no other warranties expressed or limited, of merchantability, fitness or another outside those described in this manual.

DECLARATION OF CONFORMITY

<i>We, the manufacturer: Il produttore:</i>	OSCAR BOSCAROL SRL Via E. Ferrari , 29 – 39100 BOLZANO – ITALY Tel. +39 0471 932893 – Fax. +39 0257760140 Web: www.boscarol.it - Email : info@boscarol.it Certifies EN ISO 13485:2016 – N° Q5 042208 0031 Rev. 00 Certifies UNI EN ISO 9001:2015 – N° 50 100 7289 – R.004 Issue: TÜV–SÜD Product service (CE0123)
<i>We declare under our sole responsibility that the device (name): Dichiariamo sotto nostra responsabilità che il dispositivo (nome):</i>	MEDICAL SUCTION UNIT'S ACCESSORIES ACCESSORI PER ASPIRATORI DI SECRETI
Type: Tipo:	OB WB
UMDNS code:	15016
Boscarol code:	BSU810
<i>Devices classification (MDD 93/42/EEC – Annex IX): Classificazione dispositivo (MDD93/42/CEE – Allegato IX):</i>	Class I
<i>Meets all the provisions of the directive MDD 93/42/EEC and subsequent amendments which apply to it. Soddisfa tutte le disposizioni della direttiva MDD 93/42/CEE e successivi emendamenti che lo riguardano.</i>	
<i>Applied harmonised standards, national standards or other normative documents: Norme armonizzate o nazionali applicate, altri documenti normative applicate:</i>	ISO 10079-1:2016 IEC 60601-1 ed. 3.0 UNI EN 1789:2014
<i>Conformity assessment procedure: Procedimento di valutazione della conformità:</i>	MDD93/42/EEC, Annex II (Allegato II)
<i>Notify body: Organismo di notifica incaricato della valutazione della conformità:</i>	TÜV – SÜD Product Service GmbH CE 0123
Bolzano, 25.08.2020	
DIR/RAQ – Quality Manager Dr. MARCHETTI BENEDETTA 	DIR/CEO BRAZZO DANIELE 



Emergency Medical Systems

Via Enzo Ferrari 29, 39100 Bolzano IT

Tel. +39 0471932893 - Fax: +39 0257760140

info@boscarol.it

www.boscarol.it