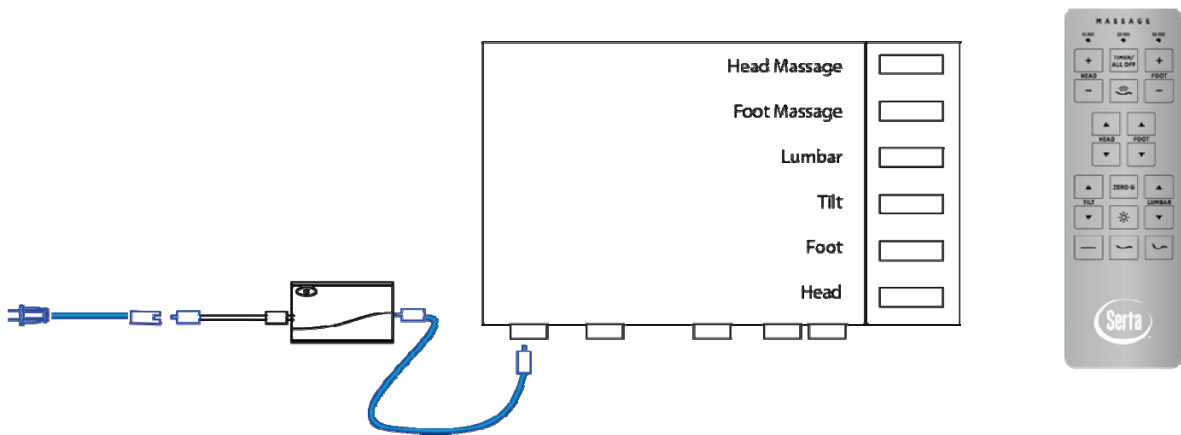


# Control unit 900 Series



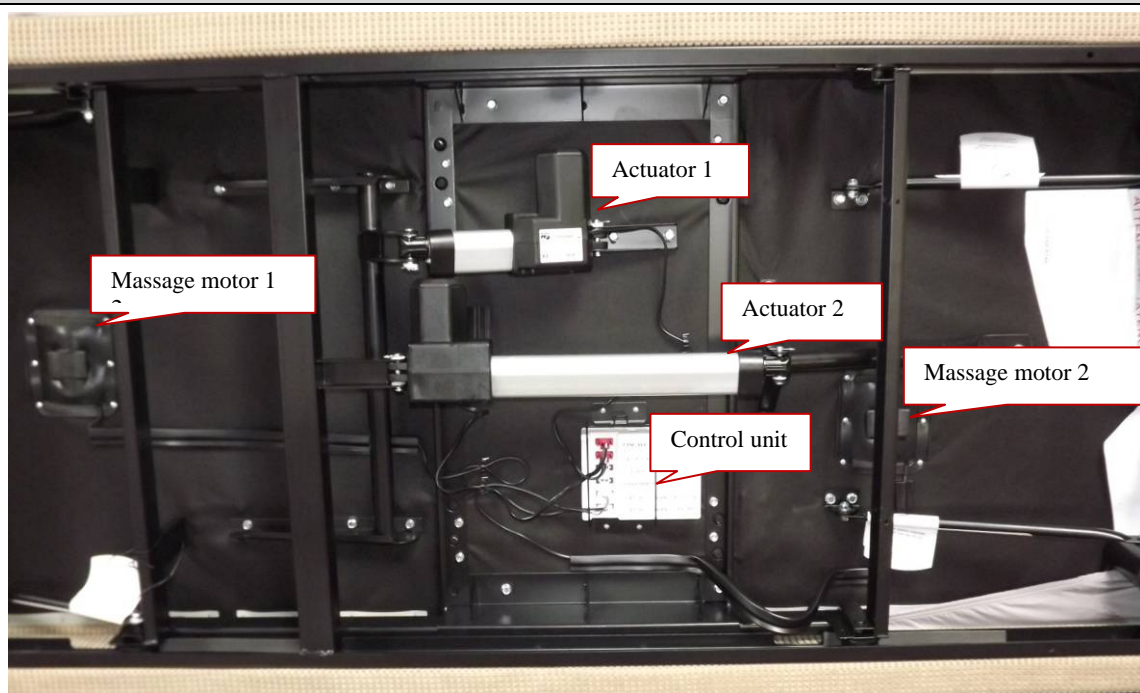
## mounting + operating

# 1 Overview

This control unit is designated to operate an electrically driven bed with optional comfort functions.

- Power supply is provided via SMPS so the control box has protection class III.
- The system is operated with an RF remote. The RF receiver is integrated into the control unit.

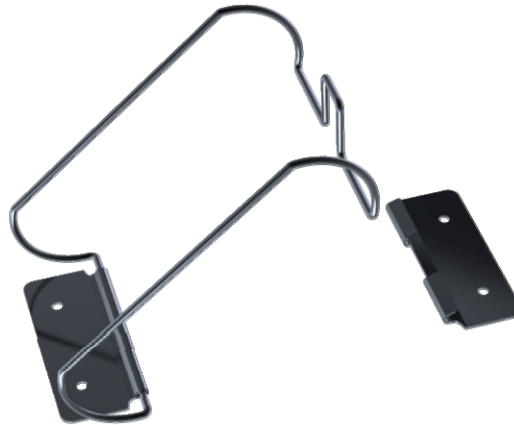
## Bed view from beneath



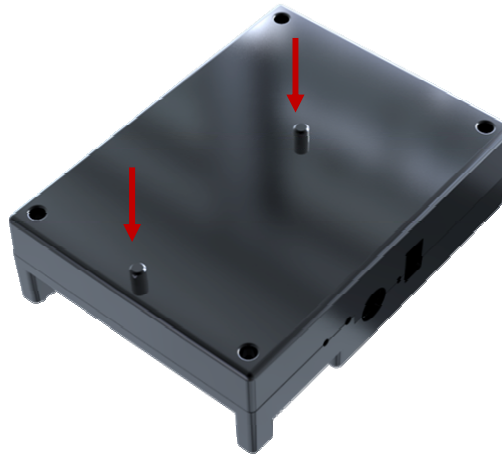
Here for example you can see a control unit with two actuators and two massage motors connected

## 2 Mounting the control unit

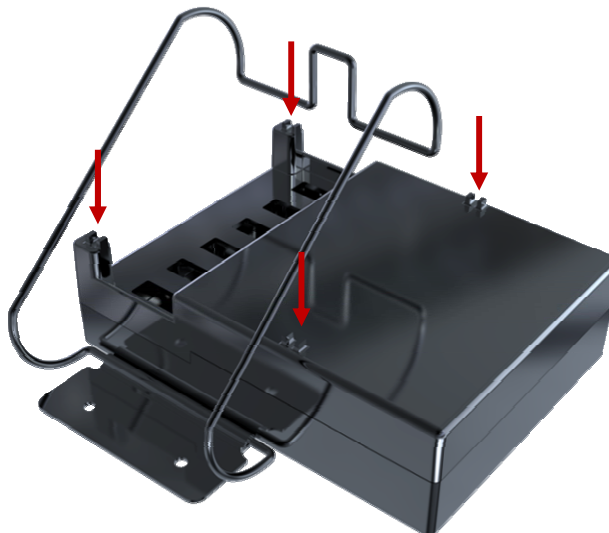
This mounting bracket is fixed on the flipside of the bed



These two bolts fix the position of the control unit between the mounting bracket.

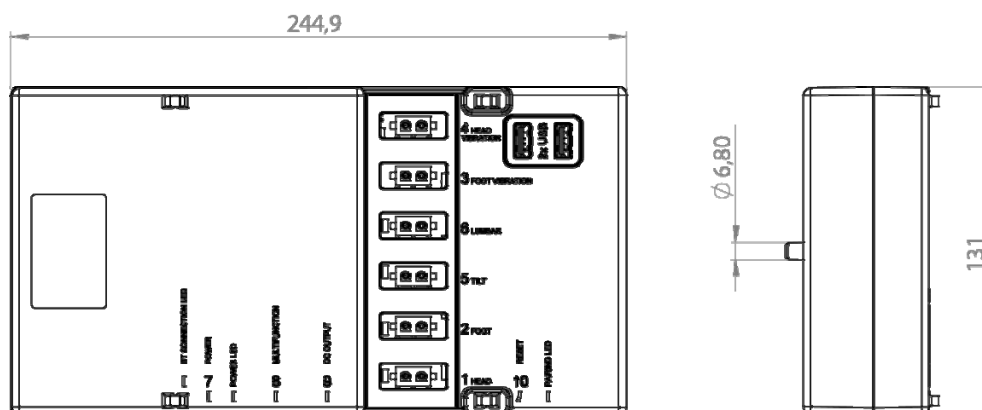
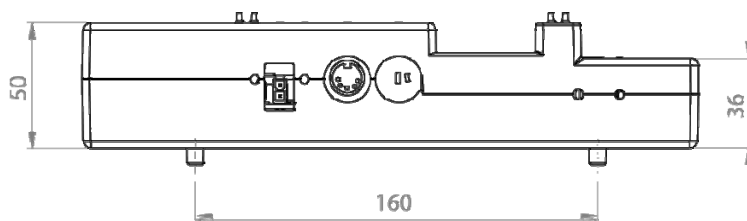
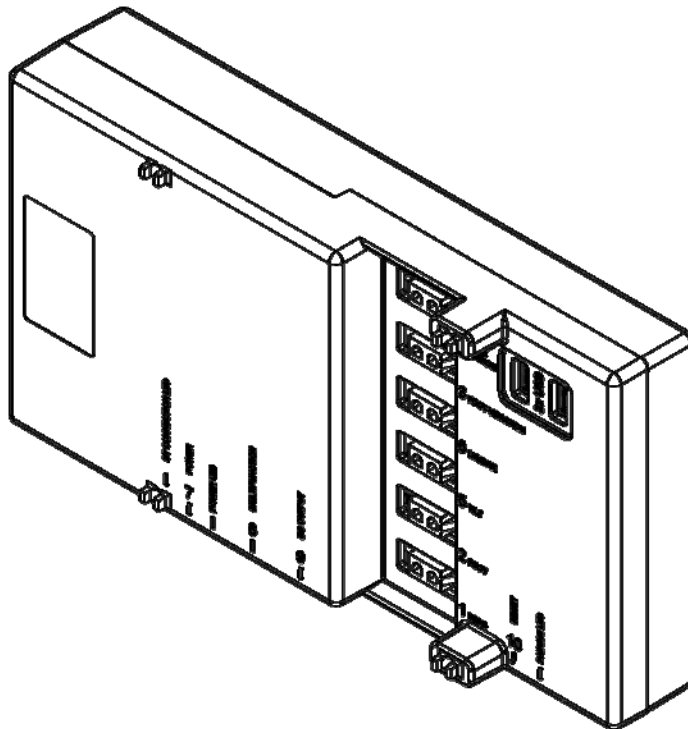



The clip snaps in the holding fixtures of the control unit



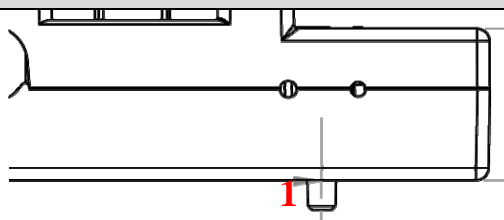
## Control Unit 258-4

## 2.1 (with integrated *Bluetooth*<sup>®</sup> module)



Performance data control unit	
Duty cycle	2/18 min. or 10 %, max, 5 switching cycles per minute
Output voltage	29 V / 6A
<b>Further features</b>	
Housing colour	black RAL 9005
Housing material	ABS + PC
Ports	drives: 4 actuators / 2 vibration motors 1 power input / 1 multifunction output / 2 USB ports /1 DC output
Indicators + buttons	Reset + pairing button / Pairing LED for RF Power LED
Protection type	IP20
Protection class	III
Relative humidity	30% - 75%
Ambient temperature	+50°F - +104°F
Power supply	external
WT12 <i>Bluetooth</i> <sup>®</sup> module  <b>“Contains FCC ID: QQQWT12A “Contains IC: 5123A-BGTWT12A”</b>	

## Integrated RF receiver

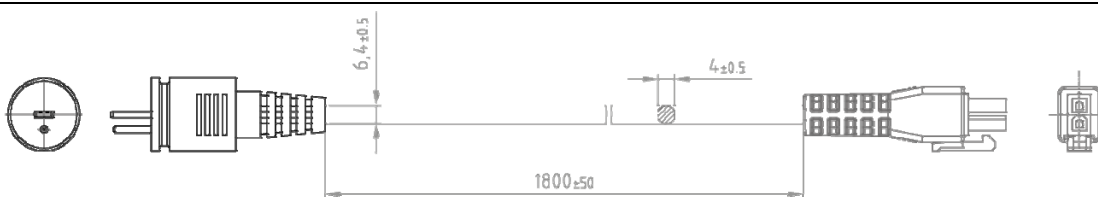
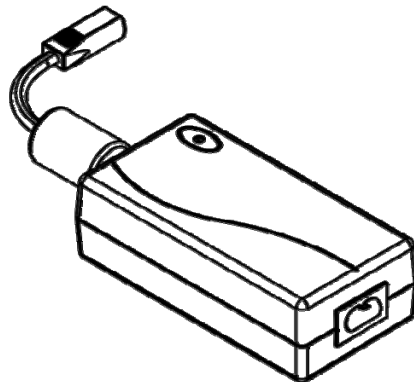


Key	Function
1	Pairing enable

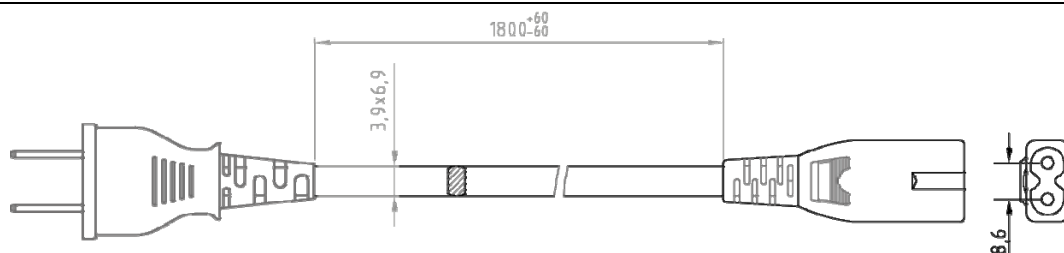
### Performance data RF receiver

modulation	GFSK
Frequency Range	2.403~2.480GHz
Battery	30V supply voltage
Working Current	<60mA
Standby Current	<20mA
Ambient Temperature	-40—85°C
PCB Material & Size	FR4 1.6mm 120*120mm

## 2.2 Power supply 3.00.209.033.00



Connecting cable 73178 to control box



Power supply cable 3.00.401.151.30 to mains power

Performance data	
Output voltage	29 V DC constant voltage output
<b>Components</b>	
Indicators	LED operating status indication (green)
Colour	black RAL 9005
<b>Further data</b>	
Protection type	IP20
Protection class	II
Relative humidity	30% - 75%
Ambient temperature	+50°F - +104°F
Power supply	wide input voltage range 100-240 V AC
Safety	NTC temperature sensor, thermal fuse, current sensing and limitation by control circuit, self resetting current limiting fuse on primary side as double safety, not self resetting

## Remote Control 258D

### Frontside



Pairing button  
& battery box  
(flipside)

Insert 3x AAA



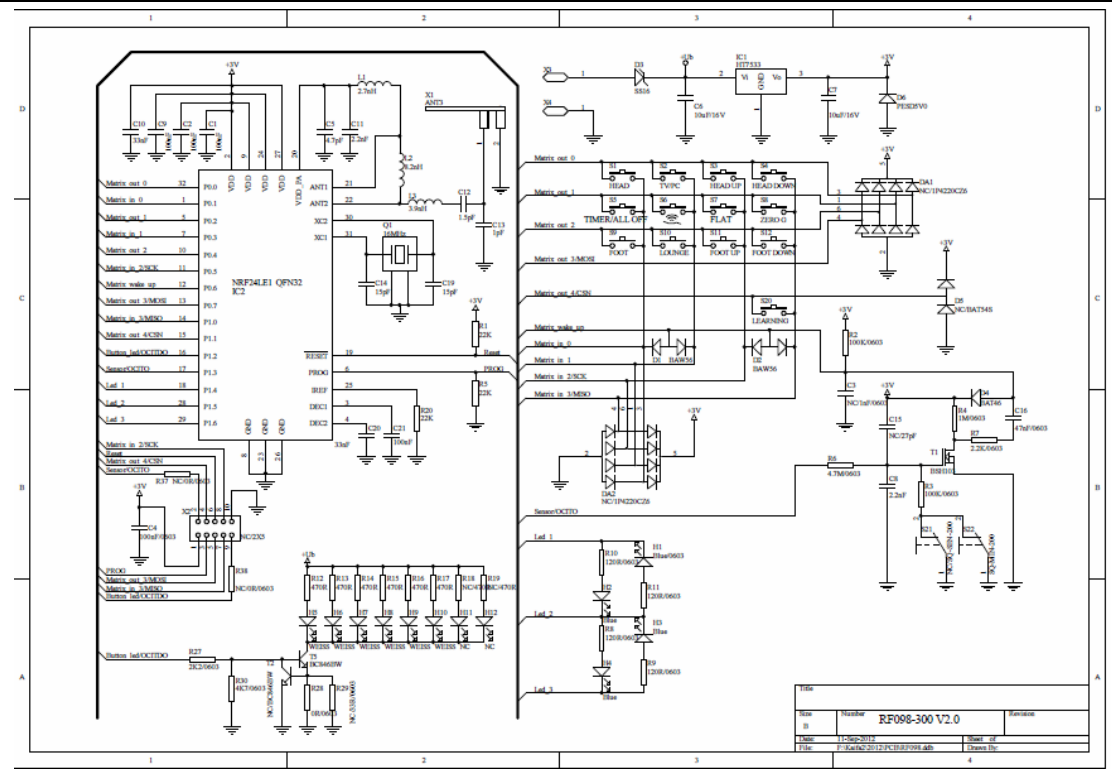
Key	Function
1	Message Head +
2	Message timer ON/OFF
3	Message Foot +
4	Message Head -
5	Start all Massage
6	Message Foot -
7	Relay 1 on
8	Relay 3 on
9	Relay 2 on
10	Relay 4 on
11	Relay 5 on
12	Position Zero G
13	Relay 7 on
14	Relay 6 on
15	Light ON/OFF
16	Relay 8 on
17	Position All flat
18	Position Lounge
19	Position TV/PC
20	Pairing



Performance data remote (RF transmitter)	
Modulation	GFSK
Frequency Range	2.403~2.480GHz
Battery	AAA
Working Current	<40mA
Standby Current	<8uA
Ambient Temperature	-40—85°C
RC Dimension	145*50*14mm
PCB Material & Size	FR4 1.6mm 79*42mm
Housing Material	ABS+PC

## 3 Board Schematics (remote)

### 3.1 Remote



### 3.2 RX module

**Pls insert diagram**

## 4 Functional Description

Take cable 3.00.401.151.30 and connect it to mains supply.

***The system is delivered paired!***

You can test the functions of the system with the RF remote.

### Pairing instruction (in case of trouble)

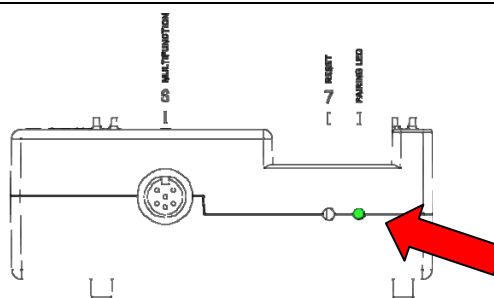
Pairing the remote with the control box.

The distance between remote and control box for pairing should be less than 2 meters!

1. Remove the battery cover on the flipside of the remote.
2. Insert/check existing 3x AAA batteries.
3. Push the reset button on the control box twice with something spiky.  
The green pairing LED adjoining is lit.

Now you have 10 s to pair remote and receiver.

4. On the flipside of the remote is a silicone push button positioned above the batteries (13).  
A blue LED starts blinking as the button is pressed.  
Keep it pressed until the blue LED is lit continuously, then pairing is completed, the blue LED light fades away.



### IC warning

- English:

This device complies with Industry Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

2. Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

- French:

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes : (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement."

RSS-102 Statement: This equipment complies with Industry Canada radiation exposure limits set forth for an uncontrolled environment.

Déclaration CNR-102: Cet équipement est conforme à l'exposition aux rayonnements Industry Canada limites établies pour un environnement non contrôlé.

FCC Warning:

- This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:
- (1) this device may not cause harmful interference, and
- (2) this device must accept any interference received, including interference that may cause undesired operation.
- Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.
- NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
  - -- Reorient or relocate the receiving antenna.
  - -- Increase the separation between the equipment and receiver.
  - -- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
  - -- Consult the dealer or an experienced radio/TV technician for help.

RF Exposure Statement

To maintain compliance with FCC's RF Exposure guidelines, this equipment should be installed and operated with minimum distance between 20cm the radiator your body: Use only the supplied antenna.