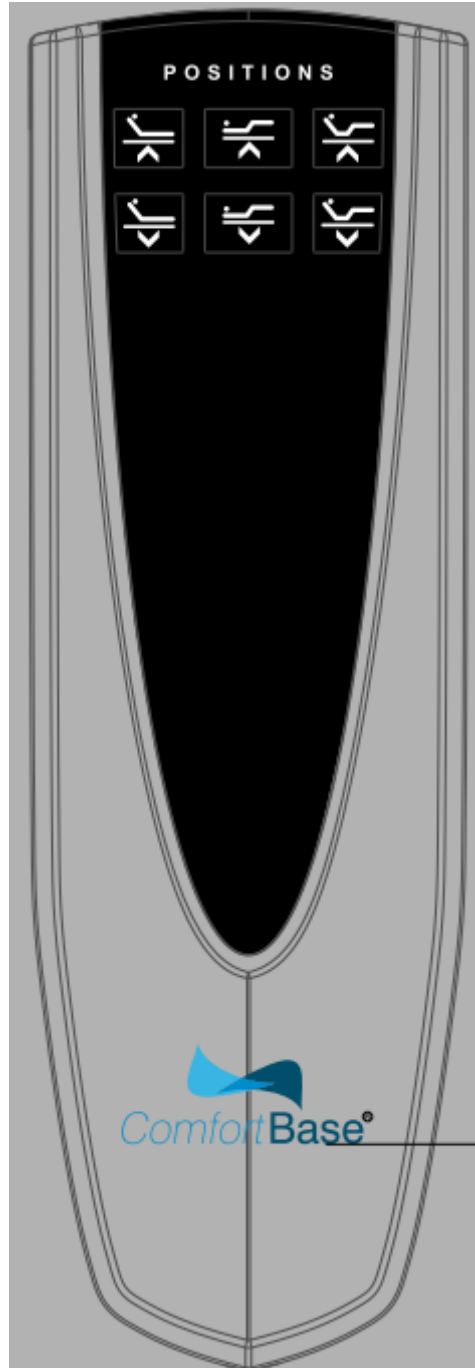








## Operating Manual of Remote Control system

### 1、 Interface of the remote control



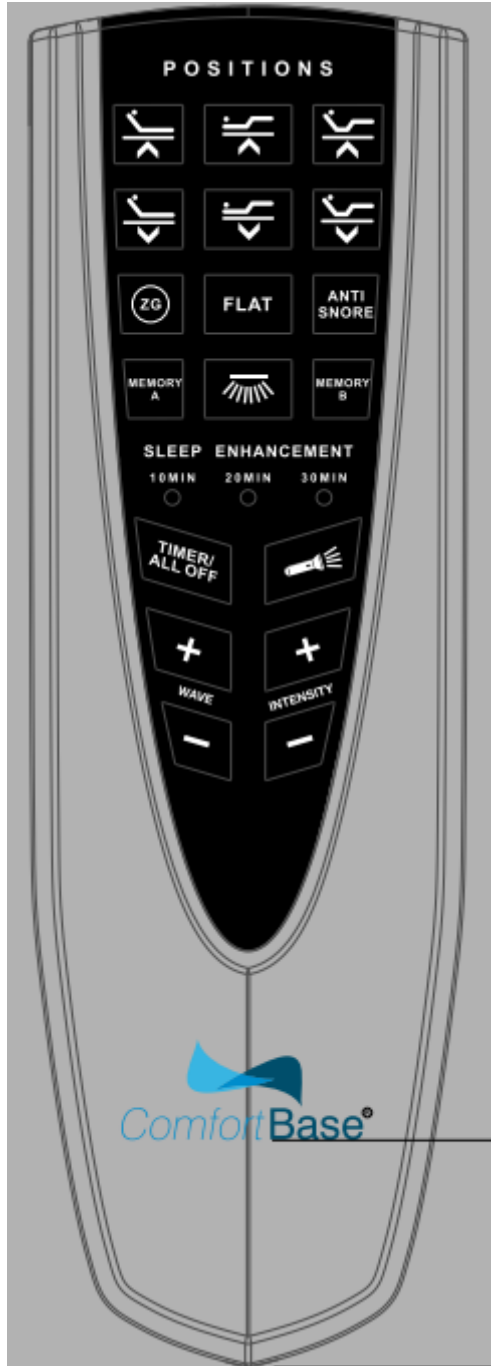
### 2、 Button description

- A.  HEAD UP button: Press and hold the button, the Head actuator will go up. Stop when released.


- B.  HEAD DN button: Press and hold the button, the Head actuator will go down. Stop when released.
- C.  FOOT UP button: Press and hold the button, the Foot actuator will go up. Stop when released.
- D.  FOOT DN button: Press and hold the button, the Foot actuator will go down. Stop when released.
- E.  HEAD & FOOT UP button: Press and hold the button, the Head and Foot actuator will simultaneously go up. Stop when released.
- F.  HEAD & FOOT DN button: Press and hold the button, the Head and Foot actuator will simultaneously go down. Stop when released.









Operating Manual of Remote Control system

2、 Interface of the remote control



2、 Button description

- A.  HEAD UP button: Press and hold the button, the Head actuator will go up. Stop when released.

- B.  HEAD DN button: Press and hold the button, the Head actuator will go down. Stop when released.
- C.  FOOT UP button: Press and hold the button, the Foot actuator will go up. Stop when released.
- D.  FOOT DN button: Press and hold the button, the Foot actuator will go down. Stop when released.
- E.  HEAD & FOOT UP button: Press and hold the button, the Head and Foot actuator will simultaneously go up. Stop when released.
- F.  HEAD & FOOT DN button: Press and hold the button, the Head and Foot actuator will simultaneously go down. Stop when released.
- G.  ZERO GRAVITY button: Click the button, the Head and Foot actuator will start up and keep running until arriving to the zero gravity position. Running can be stopped by clicking any button.
- H.  ANTI SNORE button: Click the button, the Head and Foot actuator will start up and keep running until arriving to the ANTI SNORE position. Running can be stopped by clicking any button.
- I.  FLAT button: Click the button, the Head and Foot actuator will start up and keep running until arriving to the FLAT position. Running can be stopped by clicking any button.



- J. MEMORY A button: Click the button, the Head and Foot actuator will start up and keep running until arriving to the Memory A position preset by user. Running can be stopped by clicking any button.



- K. MEMORY B button: Click the button, the Head and Foot actuator will start up and keep running until arriving to the Memory B position preset by user. Running can be stopped by clicking any button.

The blue LEDs for backlight are on as long as any button is pressed. IF all buttons are released the LEDs will automatically turn off three seconds later.

The blue LED for power is always on as long as the power on.

**The below positions can be changed or set by the end user.**

**The Zero gravity position;**

**The Memory A position;**

**The Memory B position;**

**The procedure to set these special positions is below:**



**Step 1: Click the FLAT button to flat the bed;**

**Step 2: Adjust the Head and Foot position to a desired position by pressing the button HEAD\_ UP or HEAD\_ DOWN or FOOT\_ UP or FOOT\_ DOWN;**



**Step 3: Press and hold the TIMER/ ALL OFF button for 3sec, backlight LED start flashing;**



**Step 4: Release the TIMER/ ALL OFF button then click one of ZG or MEMORY A or MEMORY B button before LED stop flashing. Then the Flashing stops immediately to indicate the corresponding operating has completed successfully.**

**ALL of the Zero gravity position and the Memory A position and the Memory A**

**position can be restored to default sets by pressing and holding the TIMER/ ALL OFF button for approximate six seconds until the backlight LEDs finally stop flashing from first flashing.**





- L. FLASHLIGHT button: Click the button, the Flashlight on the remote control will turn on if it is being off or turn off if it is being on. If the Flashlight is turning on as the button pressed, it will keep on as long as the button pressed. When the button is released, the Flashlight will still keep on for several seconds then turn off with the backlight turning off together.



- M. UNDERLIGHT button: Click the button, the Under-light under the bed will turn on if it is being off or turn off if it is being on. If the Under-light is turning on as the button pressed, it will keep on for 5 minutes then turn off automatically if the button isn't pressed again.



- N. INTENSITY Message INTENSITY INCREASEMENT button:  
Click the button the vibrating intensity will raise up one level, total 3 levels.



- O. INTENSITY Message INTENSITY DECREASEMENT button:  
Click the button the vibrating intensity will lower down one level, total 3 levels.

The number of level represents the vibrating intensity. More big number of the level, more strongly vibrating it is. The strongest vibrating is level 3, and the weakest is level 1.

Implement adjustment of the vibrating intensity is the way known as "PWM". Different duty cycle of PWM makes different intensity. The value of the duty cycle corresponding to the level is below:

Duty cycle	Level
20%	1
35%	2
50%	3



- P. SPEED Message SPEED INCREASEMENT button:  
If the vibrating has started up, click the button, the vibrating speed will raise up one level, total 4 levels.




Q.  Message SPEED DECREASEMENT button:


If the vibrating has started up, click the button, the vibrating speed will lower down one level, total 4 levels.


The "Speed" essentially represents the vibrating mode. The mode in speed level 0~2 is that the motor vibrates at intervals and the mode in speed level 3 does continuously. The intervals and the corresponding level are below:

ON time	OFF time	Level
500mS	500mS	0
350mS	350mS	1
200mS	200mS	2
Continuous		3

Note: ON time-----On vibrating  
OFF time-----Stop vibrating


PS: If the vibrator has stopped, press any one of the four buttons of   


, the vibrator will start up in the intensity of level one and in the previous speed.


R.  Message time button:

Press the button and released to stop all moves (including the actuators and vibrator) and change circularly the vibrating time of the vibrator by one level once, total 3 levels.

The time means that vibrating keeps on for this period then automatically stops if no any button related to vibrating is pressed again. The time and the LED indication are below:

10MIN  
 This LED flash a time, the vibrating time is 10minutes;

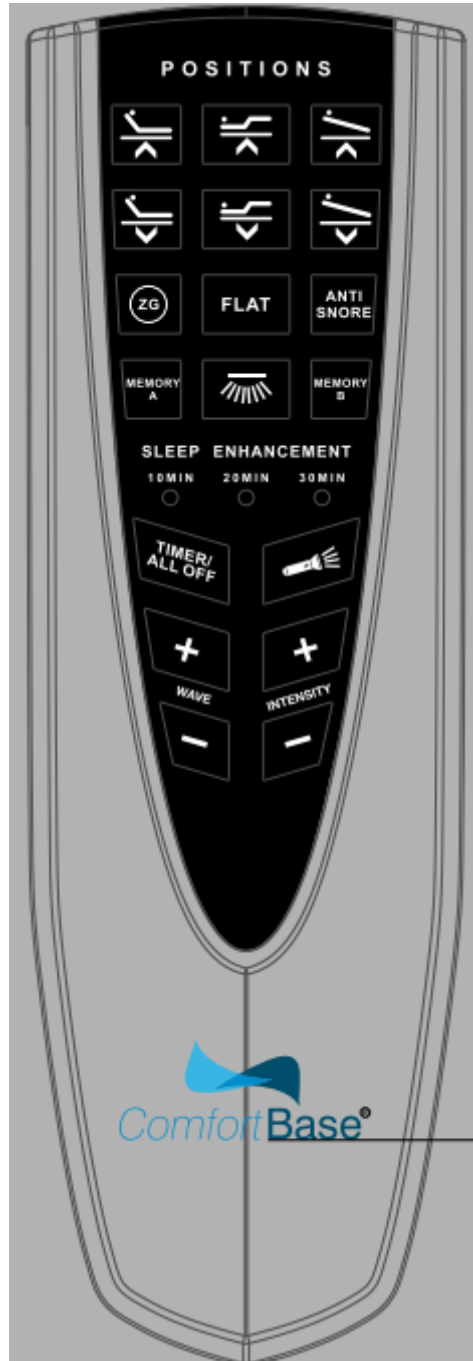
20MIN  
 This LED flash a time, the vibrating time is 20minutes;

30MIN  
 This LED flash a time, the vibrating time is 30minutes;


10min,20min,30min LED

Operating Manual of Remote Control system


3、 Interface of the remote control





2、 Button description


- A.  HEAD UP button: Press and hold the button, the Head actuator will go up. Stop when released.




B.  HEAD DN button: Press and hold the button, the Head actuator will go down. Stop when released.


C.  FOOT UP button: Press and hold the button, the Foot actuator will go up. Stop when released.


D.  FOOT DN button: Press and hold the button, the Foot actuator will go down. Stop when released.

E.  LIFT UP button: Press and hold the button, the Lift actuator will simultaneously go up. Stop when released.

F.  LIFT DN button: Press and hold the button, the Lift actuator will simultaneously go down. Stop when released.

If press simultaneously the both buttons of LIFT UP and LIFT DN and hold, the Lift actuator will simultaneously go down until arriving to the low limit switch.

G.  ZERO GRAVITY button: Click the button, first the LIFT actuator goes to the low limited switch, then the Head and Foot actuator will start up simultaneously and keep running until arriving to the zero gravity position. Running can be stopped by clicking any button.

H.  ANTI SNORE button: Click the button, first the LIFT actuator goes to the low limited switch, then the Head and Foot actuator will start up simultaneously. The Foot actuator goes to the low limited switch and the Head actuator goes to the middle limited switch. Running can be stopped by clicking any button.



- I. **FLAT button:** Click the button, first the LIFT actuator goes to the low limited switch, then the Head and Foot actuator will start up simultaneously and keep running until arriving to the FLAT position. Running can be stopped by clicking any button.



- J. **MEMORY A button:** Click the button, first the LIFT actuator goes to the Memory A position, then the Head and Foot actuator will start up simultaneously and keep running until arriving to the Memory A position. Running can be stopped by clicking any button.



- K. **MEMORY B button:** Click the button, first the LIFT actuator goes to the Memory B position, then the Head and Foot actuator will start up simultaneously and keep running until arriving to the Memory B position. Running can be stopped by clicking any button.

The blue LEDs for backlight are on as long as any button is pressed. IF all buttons are released the LEDs will automatically turn off three seconds later.

The blue LED for power is always on as long as the power on.

**The below positions can be reset by the end user.**

**The Zero gravity position (only both Head and Foot can be reset, but not for the Lift);**

**The Memory A position;**





**The Memory B position;**

**The procedure to set these special positions is below:**


**Step 1:** Click the  button to flat the bed;


**Step 2:** Adjust the Lift and Head and Foot position to a desired position by pressing the corresponding button;


**Step 3:** Press and hold the  button for 3sec, backlight LED start flashing;


**Step 4:** Release the  button then click one of  or  or  button before LED stop flashing. Then the Flashing stops immediately to indicate the corresponding operating has completed successfully.


**ALL of the Zero gravity position and the Memory A position and the Memory B**

position can be rest to default by pressing and holding the  button for approximate six seconds until the backlight LEDs finally stop flashing from first flashing.

L.  FLASHLIGHT button: Click the button, the Flashlight on the remote control will turn on if it is being off or turn off if it is being on. If the Flashlight is turning on as the button pressed, it will keep on as long as the button pressed. When the button is released, the Flashlight will still keep on for several seconds then turn off with the backlight turning off together.

M.  UNDERLIGHT button: Click the button, the Under-light under the bed will turn on if it is being off or turn off if it is being on. If the Under-light is turning on as the button pressed, it will keep on for 5 minutes then turn off automatically if the button isn't pressed again.


N.  Message INTENSITY INCREASEMENT button:  
Click the button the vibrating intensity will raise up one level, total 3 levels.

O.  Message INTENSITY DECREASEMENT button:  
Click the button the vibrating intensity will lower down one level, total 3 levels.

The number of level represents the vibrating intensity. More big number of the level, more strongly vibrating it is. The strongest vibrating is level 3, and the weakest is level 1.

Implement adjustment of the vibrating intensity is the way known as "PWM". Different duty cycle of PWM makes different intensity. The value of the duty cycle corresponding to the level is below:

Duty cycle	Level
20%	1
35%	2
50%	3

P.  Message SPEED INCREASEMENT button:  
If the vibrating has started up, click the button, the vibrating speed will raise up one

level, total 4 levels.




Q.  Message SPEED DECREASEMENT button:

If the vibrating has started up, click the button, the vibrating speed will lower down one level, total 4 levels.


The "Speed" essentially represents the vibrating mode. The mode in speed level 0~2 is that the motor vibrates at intervals and the mode in speed level 3 does continuously. The intervals and the corresponding level are below:

ON time	OFF time	Level
500mS	500mS	0
350mS	350mS	1
200mS	200mS	2
Continuous		3

Note: ON time-----On vibrating  
OFF time-----Stop vibrating


PS: If the vibrator has stopped, press any one of the four buttons of   


, the vibrator will start up in the intensity of level one and in the previous speed.


R.  Message time button:

Press the button and released to stop all moves (including the actuators and vibrator) and change circularly the vibrating time of the vibrator by one level once, total 3 levels.

The time means that vibrating keeps on for this period then automatically stops if no any button related to vibrating is pressed again. The time and the LED indication are below:

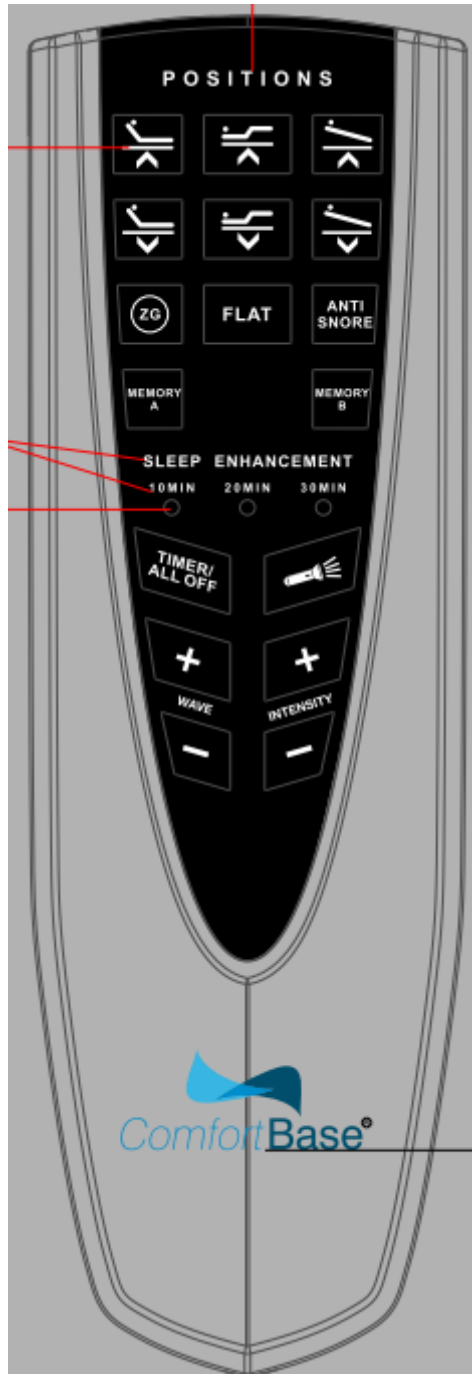
10MIN  
 This LED flash a time, the vibrating time is 10minutes;

20MIN  
 This LED flash a time, the vibrating time is 20minutes;


30MIN  
 This LED flash a time, the vibrating time is 30minutes;


Operating Manual of Remote Control system


4、 Interface of the remote control





2、 Button description


- A.  HEAD UP button: Press and hold the button, the Head actuator will go up. Stop when released.

B.  HEAD DN button: Press and hold the button, the Head actuator will go down. Stop when released.


C.  FOOT UP button: Press and hold the button, the Foot actuator will go up. Stop when released.


D.  FOOT DN button: Press and hold the button, the Foot actuator will go down. Stop when released.

E.  LIFT UP button: Press and hold the button, the Lift actuator will simultaneously go up. Stop when released.

F.  LIFT DN button: Press and hold the button, the Lift actuator will simultaneously go down. Stop when released.

If press simultaneously the both buttons of LIFT UP and LIFT DN and hold, the Lift actuator will simultaneously go down until arriving to the low limit switch.

G.  ZERO GRAVITY button: Click the button, first the LIFT actuator goes to the low limited switch, then the Head and Foot actuator will start up simultaneously and keep running until arriving to the zero gravity position. Running can be stopped by clicking any button.

H.  ANTI SNORE button: Click the button, first the LIFT actuator goes to the low limited switch, then the Head and Foot actuator will start up simultaneously. The Foot actuator goes to the low limited switch and the Head actuator goes to the middle limited switch. Running can be stopped by clicking any button.



- I. **FLAT button:** Click the button, first the LIFT actuator goes to the low limited switch, then the Head and Foot actuator will start up **simultaneously** and keep running until arriving to the FLAT position. Running can be stopped by clicking any button.



- J. **MEMORY A button:** Click the button, first the LIFT actuator goes to the Memory A position, then the Head and Foot actuator will start up simultaneously and keep running until arriving to the Memory A position. Running can be stopped by clicking any button.



- K. **MEMORY B button:** Click the button, first the LIFT actuator goes to the Memory B position, then the Head and Foot actuator will start up simultaneously and keep running until arriving to the Memory B position. Running can be stopped by clicking any button.

The blue LEDs for backlight are on as long as any button is pressed. IF all buttons are released the LEDs will automatically turn off three seconds later.

The blue LED for power is always on as long as the power on.

**The below positions can be reset by the end user.**

**The Zero gravity position (only both Head and Foot can be reset, but not for the Lift);**

**The Memory A position;**





**The Memory B position;**

**The procedure to set these special positions is below:**


**Step 1: Click the  button to flat the bed;**


**Step 2: Adjust the Lift and Head and Foot position to a desired position by pressing the corresponding button;**


**Step 3: Press and hold the  button for 3sec, backlight LED start flashing;**


**Step 4: Release the  button then click one of  or  or  button before LED stop flashing. Then the Flashing stops immediately to indicate the corresponding operating has completed successfully.**

ALL of the Zero gravity position and the Memory A position and the Memory B

position can be rest to default by pressing and holding the  button for approximate six seconds until the backlight LEDs finally stop flashing from first flashing.

L.  FLASHLIGHT button: Click the button, the Flashlight on the remote control will turn on if it is being off or turn off if it is being on. If the Flashlight is turning on as the button pressed, it will keep on as long as the button pressed. When the button is released, the Flashlight will still keep on for several seconds then turn off with the backlight turning off together.


M.  Message INTENSITY ICREASEMENT button:  
Click the button the vibrating intensity will raise up one level, total 3 levels.

N.  Message INTENSITY DECREASEMENT button:  
Click the button the vibrating intensity will lower down one level, total 3 levels.

The number of level represents the vibrating intensity. More big number of the level, more strongly vibrating it is. The strongest vibrating is level 3, and the weakest is level 1.

Implement adjustment of the vibrating intensity is the way known as "PWM". Different duty cycle of PWM makes different intensity. The value of the duty cycle corresponding to the level is below:

Duty cycle	Level
20%	1
35%	2
50%	3

O.  Message SPEED INCREASEMENT button:

If the vibrating has started up, click the button, the vibrating speed will raise up one level, total 4 levels.






P.  Message SPEED DECREASEMENT button:

If the vibrating has started up, click the button, the vibrating speed will lower down one level, total 4 levels.


The "Speed" essentially represents the vibrating mode. The mode in speed level 0~2 is that the motor vibrates at intervals and the mode in speed level 3 does continuously. The intervals and the corresponding level are below:

ON time	OFF time	Level
500mS	500mS	0
350mS	350mS	1
200mS	200mS	2
Continuous		3

Note: ON time-----On vibrating  
OFF time-----Stop vibrating


PS: If the vibrator has stopped, press any one of the four buttons of   


 , the vibrator will start up in the intensity of level one and in the previous speed.


Q.  Message time button:

Press the button and released to stop all moves (including the actuators and vibrator) and change circularly the vibrating time of the vibrator by one level once, total 3 levels.

The time means that vibrating keeps on for this period then automatically stops if no any button related to vibrating is pressed again. The time and the LED indication are below:

10MIN  This LED flash a time, the vibrating time is 10minutes;

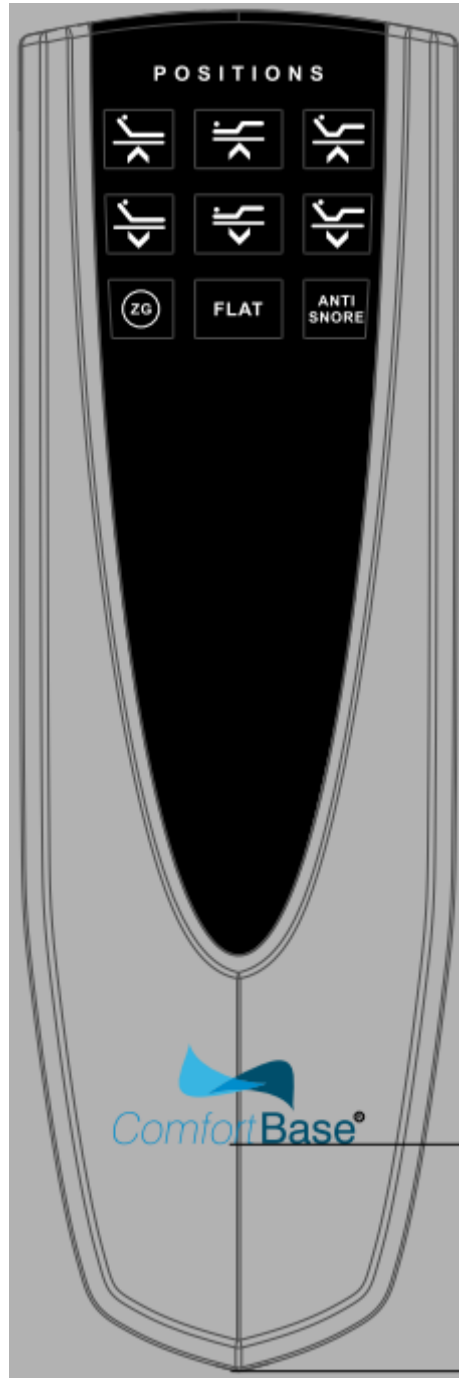
20MIN  This LED flash a time, the vibrating time is 20minutes;

30MIN  This LED flash a time, the vibrating time is 30minutes;


10min,20min,30min LED。









Operating Manual of Remote Control system

5、 Interface of the remote control



2、 Button description

- A.  HEAD UP button: Press and hold the button, the Head actuator will go up. Stop when released.

- B.  HEAD DN button: Press and hold the button, the Head actuator will go down. Stop when released.
- C.  FOOT UP button: Press and hold the button, the Foot actuator will go up. Stop when released.
- D.  FOOT DN button: Press and hold the button, the Foot actuator will go down. Stop when released.
- E.  HEAD & FOOT UP button: Press and hold the button, the Head and Foot actuator will simultaneously go up. Stop when released.
- F.  HEAD & FOOT DN button: Press and hold the button, the Head and Foot actuator will simultaneously go down. Stop when released.
- G.  ZERO GRAVITY button: Click the button, the Head and Foot actuator will start up and keep running until arriving to the zero gravity position. Running can be stopped by clicking any button.
- H.  ANTI SNORE button: Click the button, the Head and Foot actuator will start up and keep running until arriving to the ANTI SNORE position. Running can be stopped by clicking any button.
- I.  FLAT button: Click the button, the Head and Foot actuator will start up and keep running until arriving to the FLAT position. Running can be stopped by clicking any button.



The blue LEDs for backlight are on as long as any button is pressed. IF all buttons are released the LEDs will automatically turn off three seconds later.



The Zero gravity position can be changed or set by the end user.

The procedure to set the Zero gravity positions is below:

Step 1: Click the  button to flat the bed;

Step 2: Adjust the Head and Foot position to a desired position by pressing the button HEAD\_UP or HEAD\_DOWN or FOOT\_UP or FOOT\_DOWN;

Step 3: Press and hold the  button and the  button simultaneously for 3sec, backlight LED start flashing;

Step 4: Release the  button and the  button simultaneously then click one button before LED stop flashing. Then the Flashing stops immediately to indicate the corresponding operating has completed successfully.

The Zero gravity position can be restored to default set by pressing and holding the  button and the  button simultaneously for approximate six seconds until the backlight LEDs finally stop flashing from first flashing.

### Wireless pairing operation

Step1: Push the DIP Switch on the remote control to a certain position (different from the position on the other remote controls paired with the near other control boxes. ) and put in the batteries.

Step2: Power on the control box.

Step3: Press and hold the pairing Tact Switch on the control box with the pairing LED turning on until the pairing LED on the control box turns off ; then release the Tact Switch and the pairing Led begins flashing that indicates the control box is pending to pair.

Step4: Press and hold simultaneously the Head-Up button and the Foot-Up button on the remote control until backlight LED flashing. Release the two buttons and the backlight LED continue flashing and search the control box pending to pair where the pairing Led is flashing, once both the backlight on the remote control and the pairing Led on the control stop flashing, the pairing operating is completed. To test if the pairing successfully, press the Head-up or Head-down or Foot-up or Foot-down button, as so on, related to the actuators , if the click sound from the relays in the control box can be heard that means it is successful. Otherwise, repeat the all above steps.

It is strongly recommended that the near control boxes, for example, in a same house, should be configured differently. Each control box must be paired with the different remote control where the DIP-Switch position is deferent. Doesn't pair both control boxes with the same remote control or the different one but in which the DIP-switch position is same.

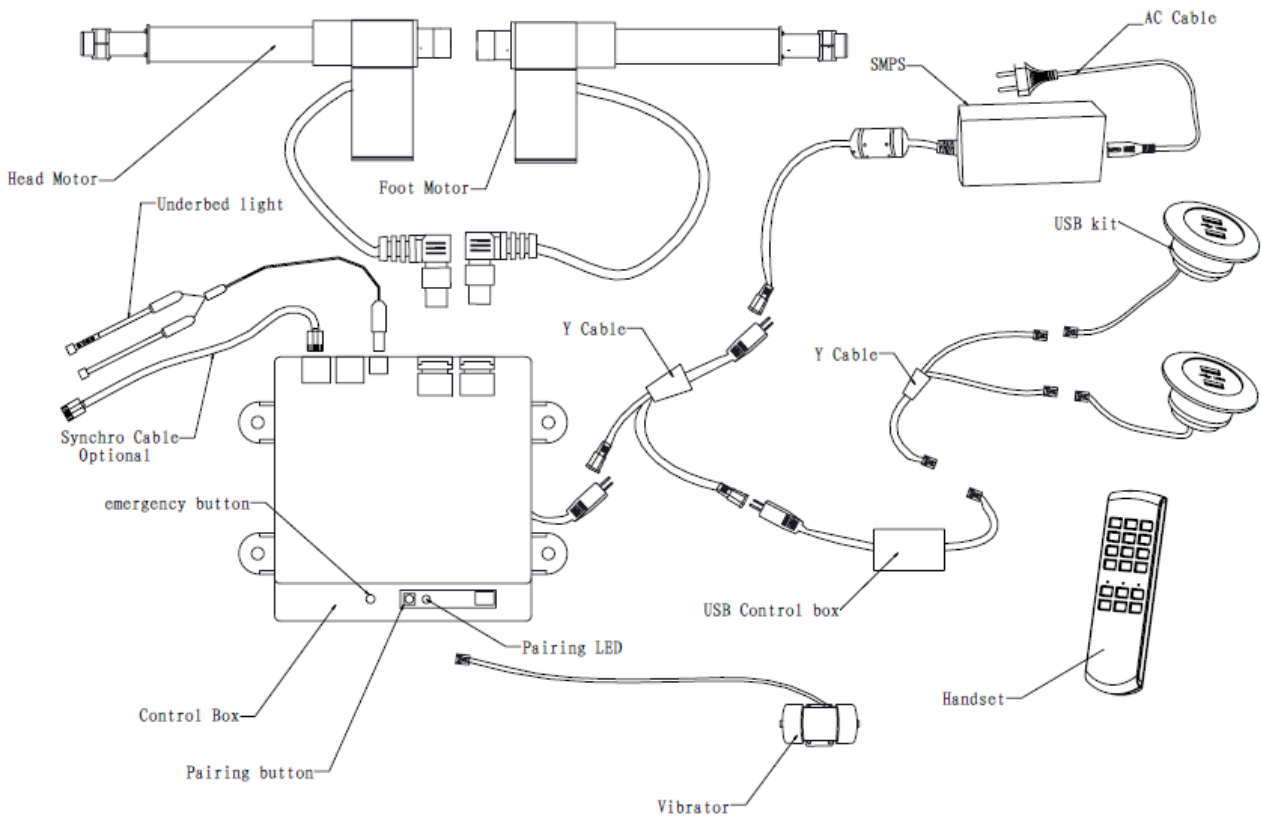
### Configuring for synch

Connect the two control boxes with the cable as below, the two control systems can work synchronously.

It is important that the two control boxes expected to work synchronously must be still configured differently to pair with the different remote control with different DIP-Switch position. Doesn't pair both control boxes with the same remote control or the different one but in which the DIP-switch position is same.



Connect to the Control Box



The control box is designed for using the SMPS of 29VDC/ around 2A as the power. It is necessary to use the SMPS provided by us when normal operation.

In the case of the AC power utility failure, the batteries for backup of 18VDC can be used as the power. It is only for flatting the bed plate without load if the batteries used as the power and each one of the batteries must be new with 9V voltage. You can press and hold the emergency button on the body of the control box to flat the bed. The movement sequence is that the Foot actuator goes down until arrives to the limit the Head one goes down. If release the button, all movement will stop immediately including the massage motors.

It isn't also strongly recommended to start the massage motors when the battery box used as power.

### FCC STATEMENT

1. This device complies with Part 15 of the FCC Rules and Industry Canada licence-exempt RSS standard(s) . 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.
2. Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

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.

### INDUSTRY CANADA NOTICE

This equipment complies with IC radiation exposure limits set forth for an uncontrolled environment. The device can be used in portable exposure conditions without Rf restrictions.

#### Avis d'Industrie Canada

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. Cet appareil numérique ne dépasse pas les Rèlements sur l'interférence radio par un appareil numérique de classe B stipulées dans les Règlement sur l'interférence radio d'industrie Canada.
2. Les changements ou modifications de cette unité non expressément approuvés par la partie responsable de la conformité pourraient annuler l'autorité de l'utilisateur à utiliser l'équipement.