L&K®

4-14 CB28 Control Box for dental chair

CB28 is a controlling system for dental chairs. Its multi-functional controlling board with stepless-memorizing feature will make users easy to proceed output and input instructions by their requirements. This makes CB28 ideal for the system of dental chairs.

Feature
- Control max. 2 actuators and controlling board (Rinse basin, water refilling, water heating, X-ray light, light for mouth)
- Multi-functional operating system with simplicity and convenience
- Mains voltage: 220V~240V / 100V~ 120V, 50/60 HZ
- High power, low electricity consumption, and low radiation provided by Built-in EI transformer
- Easy to change for external fuse
- Three-points memorizing function, positions for gargling, and the returning function
- Emergency safety lock
- Clear indicator light with warning sound
- Ambient temperature: +5℃ ~ + 40℃
- Duty cycle: Max.10% or 2 min. / 18 min. in continuous use
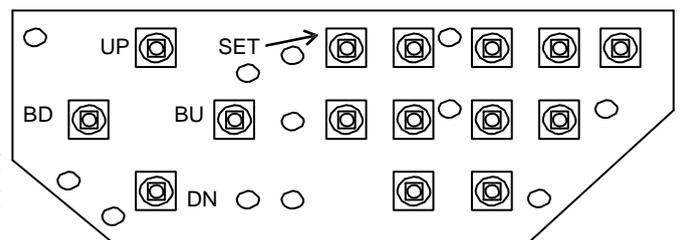- Protection class: IP54
- Color: Black

Option
- Protection class: IP66
- Customized requirement for the adjustment of input and output function
- Color: Gray White

Manual Guide
(1). Seat Movement control
1. Manual Control

Press‖UP‖: Seat upward;   Release ‒UP‖: Stop moving
Press ‒DN‖: Seat downward; Release ‒DN‖: Stop moving
Press ‒BU‖: Seat forward;   Release ‒BU‖: Stop moving
Press ‒BD‖: Seat backward; Release ‒BD‖: Stop moving

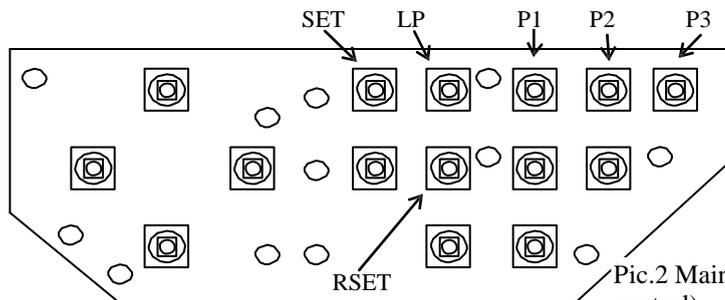Pic.1 Main Operating board (Manual Height and Tilting Control)

2. Foot Switch Control:
Functions from four buttons of foot switch are the same with main operating board above.

LINKAN ASIA CO.
12/09/01

(2).Memory positioning Control

Please finish setting up parameter first before proceeding automatic control. Please refer to each parameter setting.

Pic.2 Main operating board (Memory position control)

1. Pre-set memory button control.

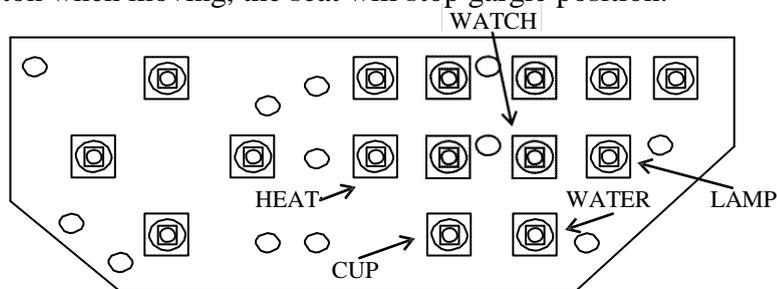Press one of the keys (P1 P2 P3) and the seat will move to pre-set position automatically.

2. Returning (Reset) button control

Press Reset button .The seat will move down to the lowest position and the seat back will move up to the highest position

3. Gargling position control

The back will move up to the highest position when pressing gargling button. If press once again when proceeding, the seat will stop moving. Then press once again, the seat back will return to original position. If press any position button when moving, the seat will stop gargle position.

Pic. 3 Main Operating board (Other functions control)

(3) Other Function

1. Gargling refill control

Press ─Cup‖ and it will refill and stop according to time setting.

2. Rinse basin control

Press ─Water‖ and it will rinse the basin and stop according to time setting.

3. Heating control

Press ─Heat‖ to begin to heat. The indicator light will start to flash and stop automatically when it reaches the temperature already set. The water will be heated once again if the water temperature be down. Press ─Heat‖ button again and it will stop heating and the indicator light will stop flashing.

4. X-Ray light control

Press ─Watch‖ and the X-Ray light will be turned on. Press it once again; the light will be turned off.

5. Control for Light for mouth

Press ─Lamp‖ to turn on the light for mouth. Press it once again; the light will be turned off.

Parameter setting

(1) Maximum seat position setting

1. Press Set button around twenty seconds and indicator light will be turned on and flash. Simultaneously, it will make buzzer sounds with long continuous sound.

2. Press ─UP‖ and ─BU‖ buttons separately to adjust the seat and seat back to the required position.

3. Press ─Set‖ button again, the flashing frequency of indicator light and buzzer sounds will become fast. In this time, it can start to proceed the setting of the lowest position to the seat.

LINKAN ASIA CO.
12/09/01

4. Press ─DN‖ and‖BD‖ buttons separately to adjust the seat and the seat back to the requirement position.

5. Press ─Set‖ button and save the memory setting, the indicator light will be turned off and out of setting condition.

(2) Pre-set memory button setting

1. Press ─Set‖ button around 2 seconds and the indicator light will be turned on. Then it will enter setting condition.

2. Manual control adjusts the seat to required position.

3. Choose the required memory position and press the button. It can memorize three points (P1, P2, P3)

4. Press ─Set‖ button and save the memory setting, the indicator light will be turned off and out of setting condition.
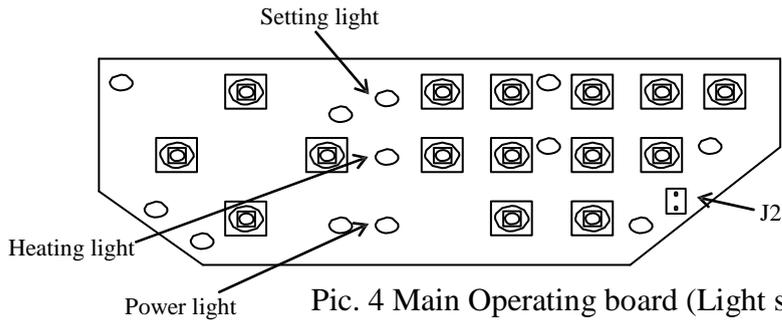
(3) Refilling time setting

1. Press ─Set‖ button around 2 seconds and the indicator light will be turned on and it can enter setting condition.

2. Press ─Cup‖ button to refill up water manually according to time setting.

3. Press ─Set‖ button once again and save the refilling setting. The indicator light will be turned off and out of setting condition.

(4) Rinsing basin time setting

1. Press ─Set‖ button around 2 seconds. The indicator light will be turned on and it enters the setting condition.

2. Start to select time of rinsing basin.

   (1) Press ─Water‖ once and the buzzer will make short sound once. It means time setting for rinsing basin is 30 minutes.

   (2)Press ─Water‖ twice and the buzzer will make short sound twice. It means time setting for rinsing basin is 60 minutes.

   (3) Press ─Water‖ three times and the buzzer will make short sound three times. It means time setting for rinsing basin is long period.

   (4) Press ─Water‖ four times and the buzzer will make short sound four times. It means time setting for rinsing basin is 12 seconds. This situation is usually applied in the testing experiments.

3. Every rinsing setting starts from 30 minutes.

4. Choose the rinsing time, then press ─Set‖ button once again and save the memory setting. The indicator light will be turned off and out of setting condition.

5. Recommend the rinsing time should depend on sounds from buzzers when setting time. This can avoid the wrong setting.

Caution

1. The main operating board has 3 lights from top to bottom: Setting indicator light with green color, heating indicator light with red color, power indicator light with green color. The secondary operating board has heating indicator light with red color and power indicator light with green color.

2. J2 connection on the main operating board is short circuit connection. It can be used in the emergency stop when all buttons are out of order.

3. CN2 connection on Foot Switch is emergency safety lock. When it is short circuit, the seat back and the seat just can move upward but not downward.
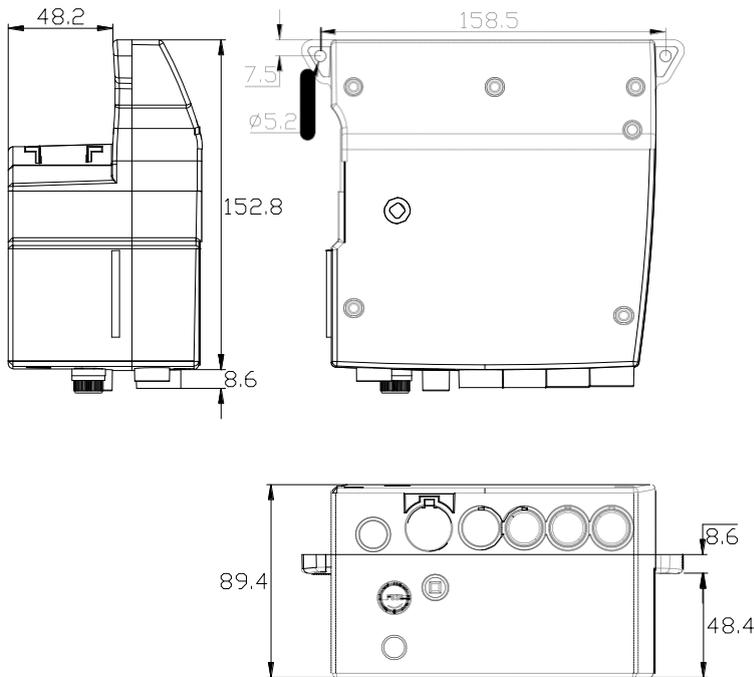
Setting light

Heating light

Power light

J2

Pic. 4 Main Operating board (Light signal & connection)

CB28 Ordering Example:

CB28 M1 － 120 － L － 1 1 1 C X X

— **Model Code**

— **Customer Code**

— **Nationality code**

— **Foot Switch**

    0：Two axes Foot Control Switch not required

    1：Foot Control Switch required

— **Secondary Operating Board**

    0：Secondary operating board not required

    1：Secondary operating board required.

— **Main Operating Board**   0：Main operating board not required

                          1：Main operating board required

— **Transformer**   L: for LA32（86VA）

                   H: for LA35（100VA）

                   N: No Transformer

— **Input Voltage**   120＝AC120V   220＝AC230V

— **Function Type**   M1：Memory Type   E1：Simple Type

— **Control Box Type   CB28-Standard**

(Plugs on CB28 are DIN Plug)

CB28 Outer Dimension:

48.2

158.5

7.5

Ø5.2

152.8

8.6

89.4

8.6

48.4

LINKAN ASIA CO.
12/09/01