

CP-ONE PLUS

Setting Manual

Ver. 1.0



CP-ONE PLUS SETTING MANUAL

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CP-ONE PLUS SETTING MANUAL

In this manual, we explain settings that operation manual doesn't cover.

■The following procedure needs to be done when you replaced a **main control pcb** on the unit.

32. Select Language
3. Initialize the handpiece memory.
4. Set the instrument holders.
5. Set the model of the micromotor to be used.
6. Set the model of the electric scaler to be used.
7. Set the assistant holders (Vacuum, Saliva ejector)
8. Set 6way syringe on the assistant holder
18. Choose the foot controller type
19. Set the foot controller pedal limit
20. Set the right side slide limit of the foot controller
21. Set left side slide limit of the foot controller
34. Set the optional legrest heater. (Optional)
- ~~35. Set optional flow control valve. (For domestic)~~
36. Set the optional electric spittoon. (Optional)
37. Set optional LED light. (Optional)

■The following procedure needs to be done when you replaced an **interface control pcb** on the unit.

3. Initialize the handpiece memory.
4. Set the instrument holders.
5. Set the model of the micromotor to be used.
6. Set the model of the electric scaler to be used.

■The following procedure needs to be done when you replaced a **foot controller** on the unit.

18. Choose the foot controller type
19. Set the foot controller pedal limit
20. Set the right side slide limit of the foot controller
21. Set the left side slide limit of the foot controller

0. Get into setting mode

[How to get into Setting Mode]

1. Turn off the main switch
2. Turn on the main switch while keep pressing the two switches (leftmost and rightmost switches) among four switches on the control panel until displayed shows as SET.

*It is possible to shift to the SET mode even if it begins to push when displayed as **Belmont**.

1. Initial settings (CH01 / UN01)

- Initial settings for chair

SET>CHAIR>CHAIR DEFAULT

Press the [○] SW to start

- Initial settings for unit

SET>UNIT/OTHER>UNIT DEFAULT

Keep pressing the STORE SW to start

The initialized function is as follows.

→HVE/SE SET.
→HVE/SE DELAY T.
→BOWL FLASH TIME
→DIS. BRIGHTNESS

→D. LIGHT ON L/H
→D. LIGHT MODE
→D. LIGHT C TIME
→EXTRA SW SET

→SPRAY TIMING
→MM COOLANT AIR
→TURBINE START
→W. ■■■ SET

→HP LIGHT SET
→LIGHT OFF TIME
→CUP BOWL LINK

→CLEAN FILTER
→ASST. 6WAY SET.

→W: ■ ■ SET
→W: ■ SET
→SPRAY AIR SET

2. Adding, removing or changing active instrument holder

When you have added, or removed, or change the positions of active instrument holders, do the following settings to reflect changes. (Refer to 3~6 for the setting procedure)

- 1) Initialize the handpiece memory.
- 2) Set the instrument holders. (At this point, the holder is set as air circuit.)
- 3) Set the model of the micromotor to be used.
- 4) Set the model of the electric scaler to be used.

Instruments will not operate normally when settings are incomplete, or settings were wrong.

If you don't initialize the memory, wrong information could be displayed.

*** If you skip procedure 3 & 4, instruments will be set as an air circuit.**

3. Initialize the Handpiece memory (HP01)

Initialization of each Handpiece holder

SET>HP>HP MEMORY RESET

- Press store switch without pick up any Handpiece → Reset all handpiece memory
- Press store switch with pick up each handpiece → Reset handpiece memory as pick up.

4. Set the instrument holders (HP02)

Up to six holders (include syringe and scaler) can be installed. Do this programming with Instruments installed. If any holder is NOT set to be used, it becomes "inactive" holder.

* Since sensing of a holder is required when using 6WAY syringe, it is necessary to install a sensor board in a holder. Also setup is required as a handpiece holder to be used.

【Setting】 SET>HP>DR. HOLDER SET

1. Pick up the handpiece from the holders where you are going to use as active holders (Include 6way syringe) and confirm the number of holder on the control panel. If three or fewer handpieces are to be used, put a dummy handpiece in the holder being not used.)
2. Depressing the [STORE] switch on control panel to memorized. The display is returns to the previous screen automatically.

* As for the holder set up at this time, sensing of a holder becomes effective, and it recognizes an air circuit.

5. Set the model of the micromotor to be used (HP03)

【Setting】 SET>HP>E. MOTOR SET.

1. Pick up the micromotor from handpiece holder and confirm the number of holder on the control panel.
2. Select the model of the micromotor by pressing [-], [+] switches. The model name will be displayed.
3. Depress the [Store] switch on the control panel. The number of the holder that was programmed and the display is returns to the previous screen automatically.
4. When you use two micromotors, repeat procedures 1 to 3 once again.

* When you have two motors, be sure to set model of motor one at a time.

Make sure that procedure [4. Set the instrument holder] has been done before performing this setup.

6. Set the model of the electric scaler to be used (HP04)

【Setting】 SET>HP>SCALER SET.

1. Pick up the scaler from handpiece holder and confirm the number of holder on the control panel.
2. Select the model of the scaler by pressing [-], [+] switches. The model name will be displayed.

3. Depress the [Store] switch on the control panel. The number of the holder that was programmed and the display is returns to the previous screen automatically.

Make sure that procedure 4. [Set the instrument holder] has been done before performing this setup.

7. Set the assistant holders (Vacuum, Saliva ejector) (HP05)

【Setting】 SET>HP>HVE/SE SET.

1. Pick up the vacuum handpiece and saliva ejector handpiece together from assistant holder and confirm the number of holder on the control panel.
2. Depress the [Store] switch on the control panel. The number of the holder that was programmed and the display is returns to the previous screen automatically.

8. Set the 6way syringe on the assistant holder (HP06)

【Setting】 SET>HP>ASST. 6WAY SET.

1. Pick up the 6way syringe from assistant holder and confirm the number of holder on the control panel.
2. Depress the [Store] switch on the control panel. The number of the holder that was programmed and the display is returns to the previous screen automatically.

9. Set the lighting timing of the light pack. (HP07)

Default : HOLDER

【Setting】 SET>HP>HP LIGHT SET

1. Select the timing of lighting by pressing [-], [+] switches.
2. Depressing the [STORE] switch on control panel to memorized. The display is returns to the previous screen automatically.
 - HOLDER (Holder mode) : The light turns on when the instrument is taken from the holder.
 - FOOTCON (Foot control mode) : The light turns on when the instrument is taken from holder and pressed the foot controller.

10. Set the delay time at Light off (Foot control mode only) (HP08)

Default : 5.0 sec.

Set the delay time at light off of Handpiece light after turning off the foot controller when selected the timing of lighting as FOOTCON.

【Setting】 SET>HP>LIGHT OFF TIMING

1. Set the delay time by pressing [+], [-] switches. (0.0 sec to 5.0 sec with the interval of 0.5 sec.)
2. Depressing the [STORE] switch on control panel to memorized. The display is returns to the previous screen Automatically.

11. Set the spray timing (HP09)

Default : 0.0 sec.

Set delay time of spray air and spray water after turning on the foot controller for every handpieces.

【Setting】 SET>HP>SPRAY TIMING

1. Pick up a Handpiece from the holder and confirm the number of holder on the control panel.
2. Set the delay time by pressing [+], [-] switches. (0.0 sec to 2.0 sec with the interval of 0.1 sec.)
3. Depressing the [STORE] switch on control panel to memorized. The display is returns to the previous screen Automatically.

12. Set the coolant air volume of the micromotor (HP10)

Default : 99

【Setting】 SET>HP>MM COOLANT AIR

1. Pick up a micromotor from holder and confirm the number of holder on the control panel.
2. Select the volume of coolant air by pressing [+], [-] switches. (Low 00 ~ 99 High)

3. Depressing the [STORE] switch on control panel to memorized. The display is returns to the previous screen Automatically.

* When you have two or three motors, be able to set the coolant air volume to each micromotor.

13. Set the rotation start point of the air turbine (HP11) Default : 0.0 sec.

【Setting】 **SET>HP>TURBINE START**

1. Pick up an air turbine from holder and confirm the number of holder on the control panel.
2. Select the number of rotation start point by pressing [+],[-] switches. (Quick 00 ~ 10 Slow)
3. Depressing the [STORE] switch on control panel to memorized. The display is returns to the previous screen Automatically.

* When you have two or three motors, be able to set the rotation start point to each turbine.

14. Set the water volume of high spray (3rd bar graph) (HP12) Default : 99

【Setting】 **SET>HP>W: ■■■ SET**

1. Pick up a Handpiece from the holder and confirm the number of holder on the control panel.
2. Select the number of water volume by pressing [+],[-] switches (Low 00 ~ 99 High)
3. Depressing the [STORE] switch on control panel to memorized. The display is returns to the previous screen Automatically.

* Be able to set the water volume to each handpiece. It not recommended to changing the 3rd step from 99 for safety.

15. Set the water volume of mid spray (2nd bar graph) (HP13) Default : M-45, T-45, S-50

【Setting】 **SET>HP>W: ■■ SET**

1. Pick up a Handpiece from the holder and confirm the number of holder on the control panel.
2. Select the number of water volume by pressing [+],[-] switches (Low 00 ~ 99 High)
3. Depressing the [STORE] switch on control panel to memorized. The display is returns to the previous screen Automatically.

* Be able to set the water volume to each handpiece.

16. Set the water volume of low spray (1st bar graph) (HP14) Default : M-40, T40, S-40

【Setting】 **SET>HP>W: ■ SET**

1. Pick up a Handpiece from the holder and confirm the number of holder on the control panel.
2. Select the number of water volume by pressing [+],[-] switches (Low 00 ~ 99 High)
3. Depressing the [STORE] switch on control panel to memorized. The display is returns to the previous screen Automatically.

* Be able to set the water volume to each handpiece.

17. Set the spray air volume (HP15) Default : M-75, T-75, S-75

【Setting】 **SET>HP>SPRAY AIR SET**

1. Pick up a Handpiece from the holder and confirm the number of holder on the control panel.
2. Select the number of water volume by pressing [+],[-] switches (Low 00 ~ 99 High)
3. Depressing the [STORE] switch on control panel to memorized. The display is returns to the previous screen Automatically.

* Be able to set to each Handpiece.

18. Choose the foot controller type (FC01)

【Setting】 **SET>FOOTCON>FOOTCON TYPE**

1. Choose foot controller type by pressing [+],[-] switches.
2. Depressing the [STORE] switch on control panel to memorized. The display is returns to the previous screen Automatically.

* The type of foot controller will be display as (**NewFTC**, NewRFC, Fine, SE)

19. Set the foot controller pedal limit (FC02)

【Setting】 **SET>FOOTCON>PEDAL LIMIT**

1. Confirm displayed value is between [10 – 1A] while foot controller is not depressed. (*1: see hex number list)
2. Depress foot controller to the limit. Check the displayed value is more than [AA]. (*2: see hex number list)
3. While depressing foot controller to its limit, depress and hold the store switch to save the setting.

Display will automatically return to the previous screen.

<Caution>

If the value is out of 10-1A range while a foot controller is not depressed, or if the value is less than AA when the foot controller is depressed to its limit, adjust the pedal limit by turning the volume switch on PC board.

1. Turn the volume switch, adjust the value within 10 – 1A.
2. Depress foot controller to the limit, make sure the value is more than AA.

20. Set the right side slide limit of the foot controller (FC03)

【Setting】 **SET>FOOTCON>SLIDE LIMIT R.**

1. Confirm displayed value is between [E8 – F2] while sliding a foot controller pedal to right side limit. (*3: see hex number list)
2. Depress and hold the store switch to save the setting. Display will automatically return to the previous screen.

<Caution>

If the value is out of E8 – F2 range while sliding a foot controller pedal to right side limit, adjust the slide limit by turning the volume switch on PC board.

1. Turn the volume switch, adjust the value within E8 – F2 while sliding a foot controller pedal to right side limit.

21. Set the left side slide limit of the foot controller (FC04)

【Setting】 **SET>FOOTCON>SLIDE LIMIT L.**

1. Confirm displayed value is between [15 – 56] while sliding a foot controller pedal to left side limit. (*4: see hex number list)
2. Depress and hold the store switch to save the setting. Display will automatically return to the previous screen.

22. Set the function of the foot controller switch (FC05)

N/A

23. Set the delay time of the HVE and SE (UN02)

Default : 4 sec.

【Setting】 **SET>UNIT/OTHER>HVE/SE DELAY T.**

1. Set the delay time by pressing [+],[–] switches.(2.0 sec. to 15 sec.) 出荷時の設定時間 4 秒
2. Depress and hold the store switch to save the setting. Display will automatically return to the previous screen.

24. Set the duration time of the bowl flush (UN03)

Default : 6 sec.

【Setting】 **SET>UNIT/OTHER>BOWL FLUSH TIME**

1. Set the duration time by pressing [+],[–] switches.(0.0 sec. to 15 sec.)
2. Depress and hold the store switch to save the setting. Display will automatically return to the previous screen.

25. Select cancellation switch for programmed chair movement (UN04)

N/A

26. Set brightness of OEL display (organic light emitting display) (UN05)

Default : 6

【Setting】 **SET>UNIT/OTHER>DISP. BRIGHTNESS**

1. Set brightness of OEL display by pressing [+],[–] switches (Dark 1 ~ 8 Bright)

2. Depress and hold the store switch to save the setting. Display will automatically return to the previous screen.

27. Set initial intensity (High/Low)of the dental light (UN06)	Default : Low
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【Setting】 **SET>UNIT/OTHER>D. LIGHT ON L/H**

1. Set initial intensity (High or Low) of dental light by pressing [+],[-] switches.
2. Depress and hold the store switch to save the setting. Display will automatically return to the previous screen.

28. Enable/Disable turning on composite mode (UN07)	Default : Mode1
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【Setting】 **SET>UNIT/OTHER>D. LIGHT MODE**

1. Select Mode1 or Mode2 by pressing [+],[-] switches.
2. Depress and hold the store switch to save the setting. Display will automatically return to the previous screen.

MODE1: When light was at composite mode and turned off by using Dr. Table switch, Light will start at regular intensity when turned on by Dr. Table switch. (Priority for H/L)

MODE2: When light was at composite mode and turned off by using Dr. Table switch, Light will start at composite mode when turned on by Dr. Table switch. (Priority for composite)

29. Set the reaction time to composite mode of the dental light (UN08)	Default : 2.0 sec.
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Set the reaction time to composite mode of dental light when depress the dental light switch or hold your hand to touch less switch.

【Setting】 **SET>UNIT/OTHER>D. LIGHT C_TIME**

1. Select the reaction time by pressing [+],[-] switches. (0.5 sec, 1.0 sec, 1.5 sec, 2.0 sec)
2. Depress and hold the store switch to save the setting. Display will automatically return to the previous screen.

30. Assign a function to the extra switch (#) on the assistant holder (UN09)	Default : NOTHING
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【Setting】 **SET>UNIT/OTHER>EXTRA SW SET**

1. Assign a function by pressing [+],[-] switches.
2. Depress and hold the store switch to save the setting. Display will automatically return to the previous screen.

NOTHING : No function

BELL : Extra output ON/OFF

SPRAY : Spray ON/OFF

HEATER : Leg rest heater ON/OFF

2SPEED : Select chair movement speed (Flow control valve type Chair only) N/A

AUTO BOWL : Electric Bowl movement (Out/In)

31. Alert to change water clean filter On/Off (UN10)

N/A (for domestic)

32. Select Language (UN11)	Default : JP
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【Setting】 **SET>UNIT/OTHER>LANGUAGE**

1. Select the language by pressing [+],[-] switches.(EN:English, FR:French, JP:Japanese)
2. Depress and hold the store switch to save the setting. Display will automatically return to the previous screen.

33. Setting of the cup filler (with weight sensor) (UN12)
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【Setting】 **SET>UNIT/OTHER>CUP FILLER SET** (A beep sound is generated as pi, pi, pi)

1. Press [○] switch without setting a cup on the cup table. (The beep sound changes to pipi, pipi)
2. Set an empty cup on the cup table and press [○]switch. (The beep sound changes to pipipi,pipipi)
3. Press the cupfiller switch to feed water and press [○]switch to determine the feed quantity.
4. Depress and hold the store switch to save the setting. Display will automatically return to the previous screen.

34. Set the optional legrest heater (OP01)

【Setting】 SET>OPTION SET UP>LEG HEATER

1. Select ON or OFF by pressing [+],[-] switches.
 2. Depress and hold the store switch to save the setting. Display will automatically return to the previous screen.
- * When turn ON, the heater switch (icon) is displayed on the main screen and be able to operate ON/FF on the main screen.

35. Set the optional flow control valve (OP02)

N/A (for domestic)

36. Set the optional electric spittoon (OP03)

【Setting】 SET>OPTION SET UP>AUTO BOWL

1. Select ON or OFF by pressing [+],[-] switch.
 2. Depress and hold the store switch to save the setting. Display will automatically return to the previous screen.
- * When turn ON, the spittoon switch (icon) is displayed on the main screen and be able to operate IN/OUT of electric spittoon on the main screen.

37. Set the optional LED dental light (OP04)

【Setting】 SET>OPTION SET UP>LED LIGHT

1. Select ON or OFF by pressing [+],[-] switches.
2. Depress and hold the store switch to save the setting. Display will automatically return to the previous screen.

38. Set up limit of the dental chair (CH02)

【Setting】 SET>CHAIR>UP LIMIT

1. Move the chair to desired upper limit position by manual UP switch.
 2. Depress and hold the store switch to save the setting. Display will automatically return to the previous screen.
- * The numerical value displayed is what evaluated the voltage value of the potentiometer.
* The value is displayed on a main screen. It is evaluated the voltage value of the potentiometer.

39. Set down limit of the dental chair (CH03)

【Setting】 SET>CHAIR>DOWN LIMIT

1. Move the chair to desired down limit position by manual down switch.
 2. Depress and hold the store switch to save the setting. Display will automatically return to the previous screen.
- * The value is displayed on a main screen. It is evaluated the voltage value of the potentiometer.

40. Set backrest forward limit position of the chair (CH04)

【Setting】 SET>CHAIR>B. F LIMIT

1. Move the backrest to desired forward limit position by manual switch.
 2. Depress and hold the store switch to save the setting. Display will automatically return to the previous screen.
- * The value is displayed on a main screen. It is evaluated the voltage value of the potentiometer.

41. Set backrest recline limit of the chair (CH05)

【Setting】 SET>CHAIR>B. R LIMIT

1. Move the backrest to desired lay flat limit position by manual switch.
 2. Depress and hold the store switch to save the setting. Display will automatically return to the previous screen.
- * The value is displayed on a main screen. It is evaluated the voltage value of the potentiometer.

42. Set legrest up limit position of the chair (CH06)

【Setting】 SET>CHAIR>LEG. UP LIMIT

1. Move the legrest to desired up limit position by [P1],[P0] switch.

2. Depress and hold the store switch to save the setting. Display will automatically return to the previous screen.

* The value is displayed on a main screen. It is evaluated the voltage value of the potentiometer.

43 Set legrest down limit of the chair (CH07)

【Setting】 **SET>CHAIR>LEG. DOWN LIMIT**

1. Move the legrest to desired down limit position by [P0],[P1] switch.

2. Depress and hold the store switch to save the setting. Display will automatically return to the previous screen.

* The value is displayed on a main screen. It is evaluated the voltage value of the potentiometer.

44. Set chair up limit to avoid interference with bowl (CH08)

【Setting】 **SET>CHAIR>UP LIMIT BOWL**

1. Set the chair up limit position by manual switch to avoid interference with bowl.

2. Depress and hold the store switch to save the setting. Display will automatically return to the previous screen.

* The value is displayed on a main screen. It is evaluated the voltage value of the potentiometer.

45. Set auto stop range (CH13)

【Setting】 **SET>CHAIR>AUTO STOP RANGE**

1. Press [○] switch to start automatic adjustment of stop range. (Be careful because the chair will move automatically)

(Recommended: Setting the chair while applying a load similar to the actual load (about 60kg))

2. When finished setting, the chair moves to AR position automatically.

46. Set the function of the LP switch (LPorP3) (CH14)

Default : LP

LP switch should be used as normal preset switch (P3) or the LP switch.

【Setting】 **SET>CHAIR>LP OR P3**

1. Select LP or P3 by pressing [+],[-] switch. (LP for last position, P3 for preset 3)

2. Depress and hold the store switch to save the setting. Display will automatically return to the previous screen.

47. Set the legrest movement at the time of the LP position (CH15)

Default : INTERLOCK

Set the legrest movement during a LP (last position) operation.

【Setting】 **SET>CHAIR>LP:LEG**

1. Select NON INTERLOCK or INTERLOCK by pressing [+],[-] switch.

2. Depress and hold the store switch to save the setting. Display will automatically return to the previous screen.

48. Set the electric bowl movement at the time of the LP position (CH16)

Default : INTERLOCK

Set the electric bowl movement during a LP (last position) operation.

【Setting】 **SET>CHAIR>LP:BOWL**

1. Select NON INTERLOCK or INTERLOCK by pressing [+],[-] switch.

2. Depress and hold the store switch to save the setting. Display will automatically return to the previous screen.

49. Set auto return function of the headrest (CH17)

Default : ON

Set auto return function of headrest when press the AR switch after the end of AR operation.

【Setting】 **SET>CHAIR>A/R:HEADREST**

1. Select ON or OFF by pressing [+],[-] switch.

2. Depress and hold the store switch to save the setting. Display will automatically return to the previous screen.

50. Set linkage function with the dental light (CH18) Default : AUTO

Auto movement of the chair should link to the ON or OFF switch of the dental light.

【Setting】 **SET>CHAIR>AUTO D. LIGHT**

1. Select AUTO or OFF by pressing [+],[-] switch. (AUTO:LINK, OFF:UNLINK)
2. Depress and hold the store switch to save the setting. Display will automatically return to the previous screen.

51. Set the slow slide valve (CH21) Default : ON

Select ON or OFF for slow movement of stop motion.

【Setting】 **SET>CHAIR>SLOW SLIDE SV.**

1. Select ON or OFF by pressing [+],[-] switch
2. Depress and hold the store switch to save the setting. Display will automatically return to the previous screen.

Check Mode

In check mode, you can check the current status of the PCB setting

1. View version information (CK01)

【Checking】 **SET>CHECK MODE>VERSION INFO.**

1. Check the program version of each PCB.

Main control PCB:[MAIN], Handpiece control PCB:[HP], Interface control PCB:[I/F], Assistant control PCB:[ASST], Chair control PCB:[CH], LED light control PCB:[LED]

2. View the HP number of the Dr.Table (Check the sensing of the holder) (CK02)

【Checking】 **SET>CHECK MODE>Dr. HP SENSOR**

1. Pick up the Handpiece from holder and confirm the number of holder on the control panel. Check the sensor of a Handpiece holder is operating normally.
2. Returns to the previous screen by pressing the [<<] switch.

3. View the HP number of assistant table (Check the sensing of the holder) (CK03)

【Checking】 **SET>CHECK MODE>ASS. HP SENSOR**

1. Pick up the Handpiece from holder and confirm the number of holder on the control panel. Check the sensor of a Handpiece holder is operating normally.
2. Returns to the previous screen by pressing the [<<] switch.

4. View the name of each switch of Dr. table and assistant table (CK04)

【Checking】 **SET>CHECK MODE>Dr. ASS. SW CHECK**

1. Enter to this mode, all LED of a control panel will light up.
2. Press each switch of control panel, the contents of switch are displayed on a control panel.

5. View set values of the foot controller (CK05)

【Checking】 SET>CHECK MODE>FOOT. CON CHECK

1. Confirm the setting value of foot controller. (Only for NewFTC: New type foot controller)
 When not depress the foot controller : Between [10 - 1A]
 When depress the foot controller : More than [AA]
 When slide a pedal to counterclockwise : [E8 - F2]
 When slide a pedal to clockwise : [15 - 56]

6. View operation of the dental light (CK06)

【Checking】 SET>CHECK MODE>D. LIGHT CHECK

1. Conform the operation for the sensor switch, the intensity switch of the dental light.

7. View the dip switch settings of the LED dental light (CK07)

【Checking】 SET>CHECK MODE>LED LIGHT DIP SW

1. Confirm the dip switch position on the LED light control PCB. (SW1 to SW8)

8. View counters, usage records (CK08)

【Checking】 SET>CHECK MODE>MULTIPLICATION

00	HP1 _ number of use	2D	Headrest up switch _ number of use
01	HP2 _ number of use	2E	Headrest down switch _ number of use
02	HP3 _ number of use	2F	Headrest backward switch _ number of use
03	HP4 _ number of use	30	Headrest forward switch _ number of use
04	HP5 _ number of use	31	Manual/Headrest switch _ number of use
05	HP6 _ number of use	HP_1	HP1 _ running time
18	Cup filler _ number of use	HP_2	HP2 _ running time
19	Bowl flush _ number of use	HP_3	HP3 _ running time
1A	Electric bowl _ number of use	HP_4	HP4 _ running time
1B	Doctor Number SW _ number of use	HP_5	HP5 _ running time
22	Dental light LOW mode _ number of use	HP_6	HP6 _ running time
23	Dental light HIGH mode _ number of use		
24	Dental light composite mode _ number of use		
25	Up switch _ number of use		
26	Down switch _ number of use		
27	Backrest lay flat switch _ number of use		
28	Backrest up tilt _ number of use		
29	P1 switch _ number of use		
2A	P2 switch _ number of use		
2B	AR switch _ number of use		
2C	LP switch _ number of use		

Refer the following hexadecimal number when set the pedal limit as section number 19,20,21.

Hexadecimal Number

00	01	02	03	04	05	06	07	08	09	0A	0B	0C	0D	0E	0F
10	11	12	13	14	15	16	17	18	19	1A	1B	1C	1D	1E	1F
20	21	22	23	24	25	26	27	28	29	2A	2B	2C	2D	2E	2F
30	31	32	33	34	35	36	37	38	39	3A	3B	3C	3D	3E	3F
40	41	42	43	44	45	46	47	48	49	4A	4B	4C	4D	4E	4F
50	51	52	53	54	55	56	57	58	59	5A	5B	5C	5D	5E	5F
60	61	62	63	64	65	66	67	68	69	6A	6B	6C	6D	6E	6F
70	71	72	73	74	75	76	77	78	79	7A	7B	7C	7D	7E	7F
80	81	82	83	84	85	86	87	88	89	8A	8B	8C	8D	8E	8F
90	91	92	93	94	95	96	97	98	99	9A	9B	9C	9D	9E	9F
A0	A1	A2	A3	A4	A5	A6	A7	A8	A9	AA	AB	AC	AD	AE	AF
B0	B1	B2	B3	B4	B5	B6	B7	B8	B9	BA	BB	BC	BD	BE	BF
C0	C1	C2	C3	C4	C5	C6	C7	C8	C9	CA	CB	CC	CD	CE	CF
D0	D1	D2	D3	D4	D5	D6	D7	D8	D9	DA	DB	DC	DD	DE	DF
E0	E1	E2	E3	E4	E5	E6	E7	E8	E9	EA	EB	EC	ED	EE	EF
F0	F1	F2	F3	F4	F5	F6	F7	F8	F9	FA	FB	FC	FD	FE	FF

*1 Foot controller is not depressed. [10 – 1A]

10	11	12	13	14	15	16	17	18	19	1A
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*2 Pedal position B is depressed. More than [AA]

										AA	AB	AC	AD	AE	AF
B0	B1	B2	B3	B4	B5	B6	B7	B8	B9	BA	BB	BC	BD	BE	BF
C0	C1	C2	C3	C4	C5	C6	C7	C8	C9	CA	CB	CC	CD	CE	CF
D0	D1	D2	D3	D4	D5	D6	D7	D8	D9	DA	DB	DC	DD	DE	DF
E0	E1	E2	E3	E4	E5	E6	E7	E8	E9	EA	EB	EC	ED	EE	EF
F0	F1	F2	F3	F4	F5	F6	F7	F8	F9	FA	FB	FC	FD	FE	FF

*3 Sliding a pedal to counterclockwise limit. [E8 - F2]

								E8	E9	EA	EB	EC	ED	EE	EF
F0	F1	F2													

*4 Sliding a pedal to clockwise limit. [15 - 56]

					15	16	17	18	19	1A	1B	1C	1D	1E	1F
20	21	22	23	24	25	26	27	28	29	2A	2B	2C	2D	2E	2F
30	31	32	33	34	35	36	37	38	39	3A	3B	3C	3D	3E	3F
40	41	42	43	44	45	46	47	48	49	4A	4B	4C	4D	4E	4F
50	51	52	53	54	55	56									