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1. Calibration & Gravity Compensation

1.1. Calibration

When the power is off, press 0 while pressing 1.

When 'G-CAL' is displayed, and then press $\textcircled{\bigstar}$.

Then this calibration mode is started.

No.	TITLE	DISPLAY	KEYBOARD & DESCRIPTION				
1	How to enter	G-CAL					
2	Program version	F= 100	Move to a next step in automatic				
3	Maximum capacity	C RPR 5000	Initialized value Initialized value				
4	Minimum division	ں، b 2	(ka) (b) (c) (c) (c) (c) (c) (c) (c) (c				
5	Setting weight	5EE - F 5000	Thitialized value Thitialized value The numeric increase The scale increase / The save				
NB : 5	NB : Setting weight shall be within the range of 10 %~100 % of max. capacity						
6	Zero calibration	28ro	Unload the tray and press \overleftrightarrow				
7	Span calibration	LoRd	Load the weight which was set in step 5 and press \overleftrightarrow				
8	Finish	End	Unload the tray and press (\bigstar)				

1.2. Gravity compensation

When the power is off, press $\bigoplus_{n=1}^{\infty}$ while pressing $\frac{ka}{lb}$.

When 'G-CAL' is displayed, and then press $\frac{kg}{10}$ again.

Then this gravity compensation mode is started.

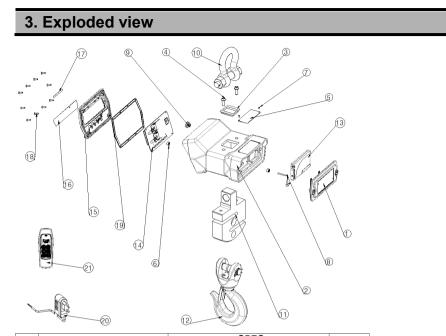
No.	TITLE	DISPLAY	KEYBOARD & DESCRIPTION		
1	How to enter	G-CAL			
2	Program version	F= 100	Move to a next step in automatic		
3	Calibration location	Бг Яц I 9799 (9.799m/s ²)	(1) Initialized value (1) numeric increase (1) scale increase / * save		
4	Using location.	Бг Яц2 9799 (9.799m/s ²)	(0) Initialized value (1) numeric increase (1) scale increase / * save		
5	Finish	End	Unload the tray and press $$		

1 If the $[r, R_u]$ value is same with $[r, R_u]$, it doesn't need to compensation set.

1.3. Check message

Code	Description		
Ch 03	The resolution is set to be exceeded the limit 1/50,000.		
	Check the resolution.		
	The balance weight for span calibration is lower than 10%, or greater		
<u>СК ОЧ</u>	than 100% of the maximum capacity of the scale.		
רט חו	The weight for span calibration should be within 10%~100% of the		
	maximum capacity of the scale.		
ርኑ በና	Load cell output is too small or large at span calibration.		
	Check the weight unit and load cell or calibrate with lower resolution.		

Step	Operation & Description
	How to enter the pairing mode
	1) CCB crane scale
	When the display is off, press ON/OFF key while pressing * key.
	When "E=4[] /"(Firmware version) is displayed, press KG/LB key.
	Then, "¬FSEŁ" is displayed.
	2) CRD-F wireless display
	Press the ON/OFF key to power on and immediately press KG/LB key
1	And press the KG/LB key again.
I	Then, "ϝϜϛϝϗ" is displayed.
	3) CRC-100 controller
	When the display is off, press ON/OFF key while pressing ENTER key
	When "E=[] /"(Firmware version) is displayed, press3 key.
	Then, "¬F5EŁ" is displayed.
	4) CRC-200 wireless dongle
	Press the SET KEY for the 5 seconds with the power on the
	connected. Then, the green light is blinking.
	Pairing
	When "rF5EL" is displayed at both products, if you press * key
2	CCB crane scale, pairing will finish.
2	A Please check "ξ _{nd} " message at both products.
	(CRC-200: green light will be turn on)
	If ending message is not appear, please repeat the pairing.



	NAME	SPEC				OITY
No		1ton	3ton	5ton	10ton	Q'TY
1	battery-cover assy					
2	body-tb_new-2	215	x220x13	5(5T)	10T	1
3	LC-COVER-5T	1T	3Т	5T	10T	1
4	Round Head Wrench Bolt		WBRH-N	110 x 25		2
5	SPEC-PLATE		95 :	x 40		1
6	code-stopper	M12 x 8				3
7	RIVET	BLIND 2.5				2
8	power-cable	¢2.5x400				1
9	code-stopper				1	
10	SHACKLE-5T	1T	3Т	5T	10T	1
11	LOADCELL	CSS1T	CSS3T	CSS5T	CSS10T	1
12	hook assy crosby	1T	3Т	5T	10T	1
13	BATTERY-PACK ASSY	CBP-100				1
14	CCB_PCB_LCD	CCB_PCB_LCD				1
15	FRONT PANEL	201x121x20				1
16	keypad_tbs	169x29				1
17	capa decal	64.5x6				1
18	screw	FH-M4x16				10
19	TCB GASKET	200x120x3.5				1

4. Firmware Update

- 1. Install the 'MPLABX'
- 2. Run 'MPLAB X IDE'
- 3. Connect the PICkit3 to PC
- 4. Connect as shown in the picture below.

Aligned the RED wire and arrow mark of PCB, and then combines them.



- 5. Select the HEX file (File Import Hex/ELF... (Prebuilt) File) <u>SEE ATTACHED VIDEO</u>
 - 1) Prebuilt Filename: Bring up the HEX file
 - 2) Family: 16-bit MCUs (PIC24)
 - 3) Device: PIC24FJ64GA306
 - 4) Supported Debug Header: None
 - 5) Hardware Tool: PICkit3
 - 6) After the above setting, click NEXT > NEXT > Finish.

- 6. Set the Project Properties (File Project Properties) SEE ATTACHED VIDEO
 - 1) Click PICkit3 in Categories
 - 2) Option categories: Memories to Program
 - 3) Preserve Program Memory: Select
 - 4) Preserve Program Memory Start (hex): 0x0800
 - 5) Preserve Program Memory End (hex): 0x1FFF
 - 6) After the above setting, click Apply.
 - 7) Option categories: Power
 - 8) Power target circuit from PICkit3: Select
 - 9) After the above setting, click Apply IPP OK.

7. Upgrade firmware SEE ATTACHED VIDEO

- 1) Click the Make and Program Device icon.
- 2) Confirm the complete message.