



Stand-on Floor Scale

USER MANUAL

MS4910

(DP3700 indicator)



Please keep the instruction manual at hand all the time for future reference.

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EXPLANATION OF TEXT/SYMBOLS ON DEVICE LABEL/PACKAGING .

Text/Symbol	Meaning
	Caution, consult accompanying documents before use
	Separate collection for waste of electrical and electronic equipment, in accordance with Directive 2002/96/EC. Do not dispose of device with everyday waste
	Name and address of device manufacturer, and year/country of manufacture
	Carefully read user manual before installation and usage, and follow instructions for use.
	Medical electrical device, Type B applied part
REF	Device catalogue number / model number
EC REP	Name and address of authorized representative in the European Union
MD	Device is a medical device. Text indicates device category type
LOT	Manufacturer's batch or lot number for device
SN	Device's serial number
UDI	Device's Unique Device Identifier
e	Value in mass units (verified models only). This is the difference between two consecutive display values, used to classify and verify a scale



Device conforms to 93/42/EEC as amended by 2007/47/EC Medical Device Directive. Four digit number refers to Notified Body.



Device complies with EC directives (verified models only)

M: Conformity label in compliance with Directive 2014/31/EU for non-automatic weighing instruments

20: Year in which conformity verification was performed and the CE label was applied. (ex: 20=2020)

0122: Identifier for metrology Notified Body



Device is a Class III scale in compliance with Directive 2014/31/EU (verified models only)



Name and address of entity importing device (if applicable)



Name and address of entity responsible for translating Information For Use (if applicable)

CON.

Event counter confirming how many times device has been calibrated (if applicable)

PREFACE .

Thank you for choosing CHARDER MEDICAL product. All features of this product were designed to state of the art and are optimized for simple and straightforward use. If you have any queries or experience any problems not addressed in the operating instructions, please contact your CHARDER MEDICAL service partner, or visit us on the Internet at www.chardermedical.com

GENERAL INFORMATION .

We strongly recommend you use the scales on flat and hard surface. Any soft surface, like carpet will cause inaccuracy.

INTENDED USE .

This scale is intended for use to determine the weight of patients, supported by professional personnel and in rooms intended for carrying out healthcare. The weighing value can be read after a stable weighing value has been obtained. Before use, the scale must be checked by an authorised person to ensure it's in a suitable condition.

SAFETY INSTRUCTION .



Before putting the device into use, please read with care the information given in the Operating Instructions. They contain important instructions for installation, proper use and maintenance of the device.

The manufacturer shall not be liable for damages arising out of failure to heed the following instructions:

- These batteries should be kept away from small children. If swallowed, promptly seek medical assistance.
- Expected Service Life: 5 years
- When using electrical components under increased safety requirements, always comply with the appropriate regulations.
- Improper installation will render the warranty null and void.
- Ensure the voltage marked on the power supply unit matches your main power supply.
- This device is designed for use indoors.
- Observe the permissible ambient temperatures for use
- The device meets the requirements for electromagnetic compatibility. Do not exceed the maximum values specified in the applicable standards.

If you have any question, contact your local CHARDER MEDICAL service partner.

ENVIRONMENTAL .

- All batteries contain toxic compounds; disposal of batteries should be delegated to a competent organisation, complying with the deposit of Poisonous Waste Regulation 1972.
- Please do not incinerate batteries.
- The optimum operating temperature for the scale is 5°C to +35°C; although it will operate at higher and lower temperatures the scales battery life will be adversely effected.

CLEANING .

- We would recommend using alcohol based wipes or similar when cleaning the scales.
- Please do not use large amounts of water when cleaning the scales as this will cause damage to the scales electronics, you should also refrain from using corrosive liquids or high pressure washers.
- Always disconnect the scales from the mains power supply before cleaning.

MAINTENANCE .

The scale does not require any routine maintenance. However, we recommend checking the scale's accuracy at regular intervals. The regularity of these checks is dependent on the level of use and the state of the scale. If any inaccuracies occur, please contact your local dealer or CHARDER MEDICAL service partner.

WEIGHING OPERATION .

Before reading detailed instructions on how to use all the weighing functions that are built into your scale, please read the following important guidelines:

- Always be sure that the display shows `Zero` before use, if it does not then please press the ZERO key.
- The device is designed to detect when a stable weight is achieved, the indicator will `bleep` twice to indicate a stable weight value, your reading should be taken at this point.

WARRANTY-LIABILITY .

- If a fault or defect is present on receipt of the unit which is within CHARDER MEDICAL's scope of responsibility, CHARDER shall have the right to either repair the fault or supply a replacement unit. Replaced parts shall be the property of CHARDER. Should the fault repairs or replacement delivery not be successful, the statutory provisions shall be valid. The period of warranty shall be two years, beginning on the date of purchase. Please retain your receipt as proof of purchase. Should your scale require servicing, please contact your dealer or CHARDER MEDICAL Customer Service.
- No responsibility shall be accepted for damage caused through any of the following reasons: Unsuitable or improper storage or use, incorrect installation or commissioning by the owner or third parties, natural wear, changes or modifications, incorrect or negligent handling, overuse, chemical, electrochemical or electrical interference or humidity, unless this is attributable to negligence on the part of CHARDER MEDICAL.

- If operating, climatic or any other influences lead to a major change in conditions or material quality, the treaty for perfect unit
- functioning shall be rendered null and void. If CHARDER provides and individual warranty, this means that the unit supplied will be free of faults for the length of the warranty period.

DISPOSING OF THE SCALE .

- This product is not to be treated as regular household waste, but should be handed in to an electrical/electronic equipment recycling centre.
- You can obtain further details from your local council, your municipal waste disposal company or the firm which you purchased the product.

EMC GUIDANCE AND MANUFACTURER'S DECLARATION .

Guidance and manufacturer's declaration-electromagnetic emissions		
The MEDICAL SCALE MS4910 is intended for use in the electromagnetic environment specified below. The customer or the user of the MEDICAL SCALE MS4910 should assure that it is used in such an environment.		
Emission test	Compliance	Electromagnetic environment-guidance
RF emissions CISPR 11	Group 1	The MEDICAL SCALE MS4910 uses RF energy only for its internal function. Therefore, its RF emissions are very low and are not likely to cause any interference in nearby electronic equipment. The MEDICAL SCALE MS4910 is suitable for use in all establishments, including domestic establishments and those directly connected to the public low-voltage power supply network that supplies buildings used for domestic purposes.
RF emissions CISPR 11	Class B	
Harmonic emissions IEC 61000-3-2	Class A	
Voltage fluctuations /flicker emissions IEC 61000-3-3	Compliance	

Guidance and manufacturer's declaration-electromagnetic immunity

The MEDICAL SCALE MS4910 is intended for use in the electromagnetic environment specified below.

The customer or the user of the MEDICAL SCALE MS4910 should assure that it is used in such an environment.

Immunity test	IEC 60601 test level	Compliance level	Electromagnetic environment-guidance
Electrostatic discharge(ESD) IEC 61000-4-2	± 8 kV contact ± 2 kV, ± 4 kV, ± 8 kV, ± 15 kV air	± 6 kV contact ± 8 kV air	Floors should be wood, concrete or ceramic tile. If floors are covered with synthetic material, the relative humidity should be at least 30%
Electrical fast transient/burst IEC 61000-4-4	± 2 kV for power supply lines + 1kV for input/output lines	± 2 kV for power supply lines Not applicable	Mains power quality should be that of a typical commercial or hospital environment.
Surge IEC 61000-4-5	± 1 kV line(s) to line(s) ± 2 kV line(s) to earth	± 1 kV differential mode Not applicable	Mains power quality should be that of a typical commercial or hospital environment.
Voltage Dips, short interruptions and voltage variations on power supply input lines IEC 61000-4-11	0% UT for 0,5 cycle 0% UT for 1 cycle 70% UT(30% dip in UT) for 25 cycles 0% UT for 5 s	<5% UT(>95% dip in UT) for 0,5 cycle 40% UT(60% dip in UT) for 5 cycles 70% UT(30% dip in UT) for 25 cycles <5% UT(>95% dip in UT) for 5 s	Mains power quality should be that of a typical commercial or hospital environment. If the user of the MEDICAL SCALE MS4910 requires continued operation during power mains interruptions, it is recommended that

			the MEDICAL SCALE MS4910 be powered from an uninterruptible power supply or a battery.
Power frequency(50/60 Hz) magnetic field IEC 61000-4-8	30 A/m	3 A/m	The MEDICAL SCALE MS4910 power frequency magnetic fields should be at levels characteristic of a typical location in a typical commercial or hospital environment.
NOTE UT is the a.c. mains voltage prior to application of the test level.			

Guidance and manufacturer's declaration-electromagnetic immunity			
The MEDICAL SCALE MS4910 is intended for use in the electromagnetic environment specified below. The customer or the user of the MEDICAL SCALE MS4910 should assure that is used in such and environment.			
Immunity test	IEC 60601 test level	Compliance level	Electromagnetic environment-guidance

Conducted RF IEC 61000-4-6	3 Vrms 150 KHz to 80 MHz 6 V in ISM bands between 0,15 MHz and 80 MHz 80 % AM at 1 kHz	3 Vrms	Portable and mobile RF communications equipment should be used no closer to any part of the MEDICAL SCALE MS4910 including cables, than the recommended separation distance calculated from the equation applicable to the frequency of the transmitter. Recommended separation distance: $d = 1,2 \sqrt{P}$ $d = 1,2 \sqrt{P}$ 80MHz to 800 MHz $d = 2,3 \sqrt{P}$ 800MHz to 2,7 GHz Where P is the maximum output power rating of the transmitter in watts (W) according to the transmitter manufacturer and d is the recommended separation distance in metres (m). Field strengths from fixed RF transmitters, as determined by an electromagnetic site survey^a, should be less than the compliance level in each frequency range^b. Interference may occur in the vicinity of equipment marked with the following symbol:
Radiated RF IEC 61000-4-3		3 V/m	

	3 V/m 80MHz to 2,7 GHz		
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NOTE1 At 80 MHz and 800 MHz, the higher frequency range applies.

NOTE2 These guidelines may not apply in all situations.

Electromagnetic propagation is affected by absorption and reflection from structures, objects and people.

- a Field strengths from fixed transmitters, such as base stations for radio (cellular/cordless) telephones and land mobile radios, amateur radio, AM and FM radio broadcast and TV broadcast cannot be predicted theoretically with accuracy. To assess the electromagnetic environment due to fixed RF transmitters, an electromagnetic site survey should be considered. If the measured field strength in the location in which the MEDICAL SCALE MS4910 is used exceeds the applicable RF compliance level above, the MEDICAL SCALE MS4910 should be observed to verify normal operation. If abnormal performance is observed, additional measures may be necessary, such as re-orienting or relocating the MEDICAL SCALE MS4910.
- b Over the frequency range 150 kHz to 80 MHz, field strengths should be less than 3 V/m.

Recommended separation distance between portable and mobile RF communications equipment and the MEDICAL SCALE

The MEDICAL SCALE MS4910 is intended for use in an electromagnetic environment in which radiated RF disturbances are controlled. The customer or the user of the MEDICAL SCALE MS4910 can help prevent electromagnetic interference by maintaining a minimum distance between portable and mobile RF communications equipment (transmitters) and the MEDICAL SCALE MS4910 as recommended below, according to the maximum output power of the communications equipment.

Rated maximum output power of transmitter W	Separation distance according to frequency of transmitter m		
	150 kHz to 80 MHz $d = 1,2\sqrt{P}$	80 MHz to 800 MHz $d = 1,2\sqrt{P}$	800 MHz to 2,7 GHz $d = 2,3\sqrt{P}$
0,01	0,12	0,12	0,23
0,1	0,38	0,38	0,73
1	1,2	1,2	2,3
10	3,8	3,8	7,3
100	12	12	23

For transmitters rated at a maximum output power not listed above, the recommended separation distance d in metres (m) can be estimated using the equation applicable to the frequency of the transmitter, where p is the maximum output power rating of the transmitter in watts (W) according to the transmitter manufacturer.

NOTE1 At 80 MHz and 800 MHz, the separation distance for the higher frequency range applies.

NOTE2 These guidelines may not apply in all situations.

Electromagnetic propagation is affected by absorption and reflection from structures, objects and people.

SPECIFICATION .

Model	MS 4910 (DP3700 indicator)
Capacity	300 kg
Graduation	100 g
Weight Unit	kg
Operating Temp. and Humidity	5°C - 35°C 15% - 85% RH
LCD Display	1.0 inch LCD display with 5 and 1/2 digits
Dimension for slim column	360(W) x 520(D) x 1020(H) mm
Dimension for column with wheel castor	360(W) x 440(D) x 1100(H) mm Column only: 850 mm
Key Functions	ON/OFF, ZERO, PRINT, BMI, HOLD, PRE-TARE, TARE , CLEAR, ENTER, 0~9 , M1-5
Power Supply	6-AA size batteries 12V AC Adaptor Rechargeable battery pack (optional).
Standard Accessories	User manual x 1; RS232 cable x 1
Options	Thermo printer TP2100
	HM201M manual height rod
	HM200D digital height rod (LCD display)
	HM201D digital height rod (without LCD)

STANDARD ACCESSORIES .

No.	Accessories	Item	Spec.	Qty.
1		RS232 cable	WR-8159	1
2		MS4910 user manual		1
3		Screw	M6*20	4
		Screw (Optional: for wheel version)	M4*20	4

PANEL .



KEY FUNCTION .

Key	Description
ON/OFF	Turn ON/OFF the scale
PRINT	Data transmission via interface(Print-out the results)
BMI	To determine Body Mass Index
HOLD	To determine stable weighing value in case of unstable weight.
ZERO	To reset the display to 0.0kg display / Zero the scale ($\pm 2\%$ of full capacity)

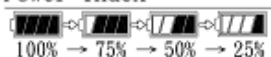
M1-5	To store 5 pre-tare values (Approval Model).
PRE-TARE	Pre-tare function for subtraction of a known container weight or any other object before weighing process.
TARE	Tare allows the user to zero the instrument to cancel the weight of a container/ clothes from the reading of the instrument, thus giving the true weight of the product/ person being tested, while weighing.
CLEAR	To clear the wrong entry while entering digits.
ENTER	To confirm the performing functions.
0-9	Entering digits

LCD SYMBOL DESCRIPTION .

Unit Mark (kg)

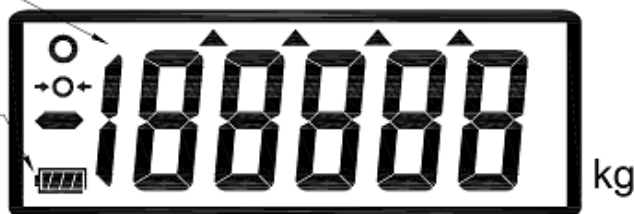
Indicates that the weight is shown in pounds

Power Index



○ POWER

PRE- TARE HOLD NET WEIGHT



Unit of height (cm)

Indicates that the height is shown in centimeters

BMI

Body Mass Index is a height to weight ratio, and is calculated by the following formula



DEFINITIONS .

Stable symbol: To indicate that the weight is stable.

Minor weight: Weight under zero.

Zero symbols: Weight is at zero point.

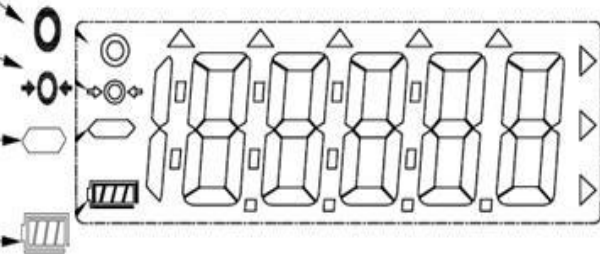
Low battery: Battery need to charge or replaced.

Stable Symbol

Zero Symbols

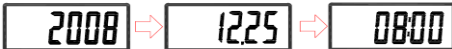
Minor Weight

Low Battery



TIME SETTING .

Long press HOLD key for 3 seconds to enter the TIME SETTING mode, beginning with the top row, with the flashing digit. Press HOLD key after successful change to move to next step. EX: To input Dec 25, 2008, 8:00am.

	Enter year using keys from 0~9. Press HOLD key after successful entry to move to next.
	Enter date. Ex: 12/25 enter "12.25" Press HOLD key after successful entry to move to next.
	Enter time.
	Display Format YYYY→MM.DD→TT:SS

USING SCALE .

- Switch on the scale using  key. The diagnostic scale self-check is performed and the software version is displayed.
- The „**0,00 kg**” weight displays on the screen, now the scale is ready for weighing.

Note: If „**0,00 kg**” won't display on the screen, press

 key to zero the scale,  can be used any time to zero the scale.

- ◆ Place a person in the middle of the scale. Wait until the scale stabilizes and stable sign (o) shows on the screen

Direction:

If a person is heavier than the scale capacity, the display will show the „Err” prompt (= overload).

USING HOLD FUNCTION .

MS 4910 is provided with the integrated hold function to determine the average weight. It enables people to be weighed accurately although they are not still on the scale platform.

Note: *Determining average weight is not possible incase of big fluctuation between weight.*

- Switch 'ON' the scale using **[ON/OFF]** key. The diagnostic self-check will be performed and after that „**0.0 kg**” will display on the screen with 'stable' and 'zero sign'.
- Move the object/ person on the scale platform..
- Press the **[HOLD]** key. The 'HOLD' will display on the screen with blinking triangle and after few seconds the average of fluctuating weight will display on the screen and will lock on the display.
- To release the locked weight on display simply press the **[HOLD]** key again and the display will return to normal mode automatically.

[HOLD] key function can be activated before or after putting the weight on the tread platform. But in case of weighing unstable person it is recommended to press **[HOLD]** key after the person moves on the tread platform.

USING BMI FEATURE .

1. In normal mode, press BMI key to enter into BMI mode.
2. The display will show last height and the extreme left digit of figure will blink.
3. Enter the height using (0~9) number keys. (ex:170cm)
4. Proceed to weigh as normal. The instrument will show the weight, height, and BMI value.
5. At this stage, the weight and height can be changed, and the MS 4910 will automatically calculate the BMI value according to the changed weight and height.
6. HOLD feature can also be used if the weight is unstable.
7. Press BMI button to return normal weighing mode.

Body Mass Index Categories

Classification of weight for adults over 18 years on the basis of Body Mass Index according to WHO, 2000 EK IV and WHO 2004 (WHO - World Health Organization).

Category	BMI (kg/m ²)	Risk of diseases accompanying overweight
Underweight	< 18.5	low
Normal weight	18.5 – 24.9	average
Overweight	≥ 25.0	
Preobesity	25.0 – 29.9	slightly increased
I degree of obesity	30.0 – 34.9	increased
II degree of obesity	35.0 – 39.9	high
III degree of obesity	≥ 40	very high

USING TARE FUNCTION .

Tare allows the user to zero the instrument to cancel the weight of a container/ clothes from the reading of the instrument, thus giving the true weight of the product/ person being tested.

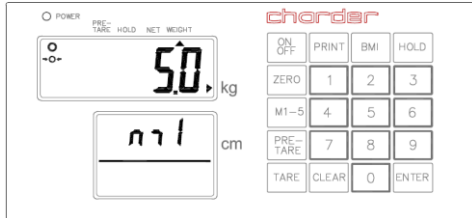
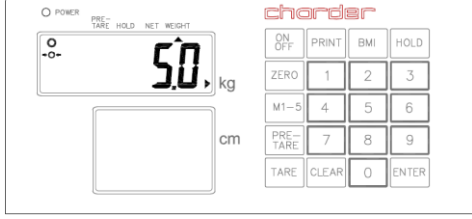
- Place the object need to be tare on the tread platform.
- Press "TARE" key after the weight stabilizes and stable sign displays. The display will become zero.
- Place the object need to be weighed (without removing the tare object)

To delete the saved tare value, remove the tare object from the tread platform and press "TARE" key.

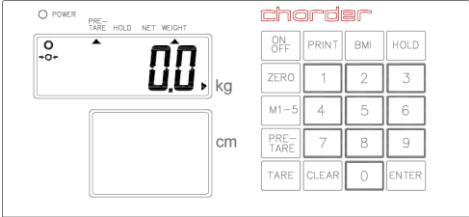
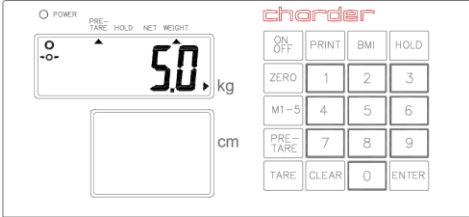
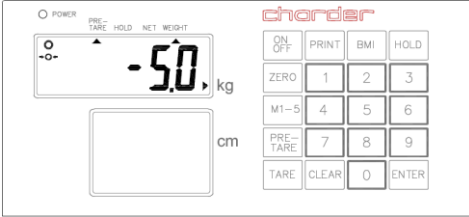
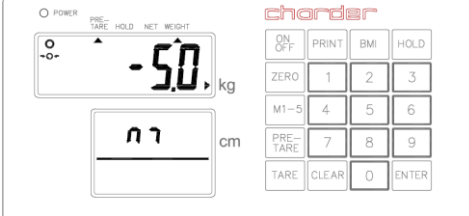
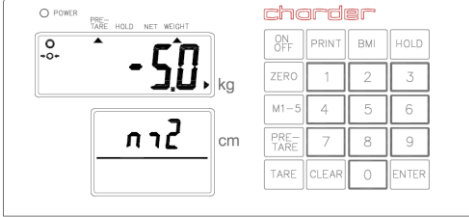
STORING AND RE-CALLING PRE-TARE WEIGHT .

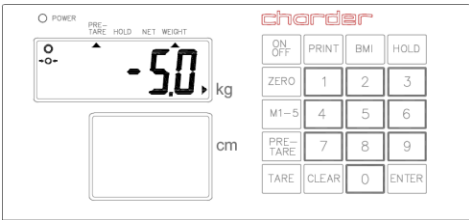
MS 4910 can store 5 sets of pre-tare values, and there are two methods to store pre-tare value – *Using Dead Weight or Enter weight using 0~9 keys*:

A. Using Dead Weight:

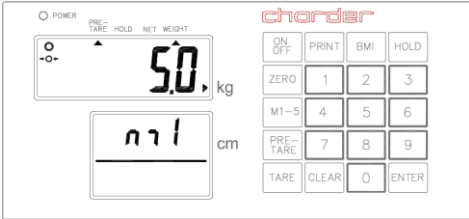
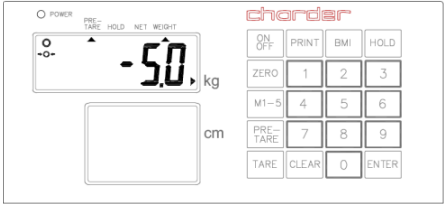
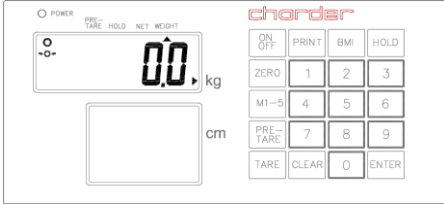
DESCRIPTION	EXAMPLE
Press M1-5 key after loading the weight on the platform; the display shows blinking m sign.	 The diagram shows the Chordar MS 4910 scale interface. The main display shows '50.00' kg. The secondary display shows a blinking 'm' sign. The keypad includes keys for ON/OFF, PRINT, BMI, HOLD, ZERO, 1-3, M1-5, PRE-TARE, TARE, CLEAR, 0, and ENTER.
Press numeral key 1 ~ 5 to assign the position to pre-tare weight.	 The diagram shows the Chordar MS 4910 scale interface. The main display shows '50.00' kg. The secondary display shows 'm1'. The keypad includes keys for ON/OFF, PRINT, BMI, HOLD, ZERO, 1-3, M1-5, PRE-TARE, TARE, CLEAR, 0, and ENTER.
Press ENTER key to store pre-tare weight; the instrument will make beep sound.	 The diagram shows the Chordar MS 4910 scale interface. The main display shows '50.00' kg. The secondary display is empty. The keypad includes keys for ON/OFF, PRINT, BMI, HOLD, ZERO, 1-3, M1-5, PRE-TARE, TARE, CLEAR, 0, and ENTER.

B. Enter Weight Using 0~9 Keys:

DESCRIPTION	EXAMPLE
Press PRE-TARE key, and the extreme left digit will blink.	
Enter pre-tare weight using 0~9 keys. For example- 5kg.	
Press ENTER key to confirm the pre-tare weight; the display will show the minus sign on left of the pre-tare weight value.	
Press M1-5 key; the blinking m sign will appear on the display.	
Press numeral key 1 ~ 5 to assign the position to pre-tare weight.	

Press ENTER key to store pre-tare weight; the instrument will make beep sound.	
---	---

C. RECALL PRE-TARE VALUE

DESCRIPTION	EXAMPLE
Long press PRE-TARE key for 3 seconds; the display will show pre-tare value-m1 firstly. The pre-tare value will blink.	
Press numeral key 1 ~ 5 to choose pre-tare value	
Press ENTER key to confirm the pre-tare weight; the instrument will automatically perform tare function.	
Press PRE-TARE key to return to Normal Mode.	

SET UP YOUR DEVICE .

Switch ON the scale and long press [ZERO] key for 3 seconds, first "SETUP" and then "A.OFF" will display successively.

AUTO-OFF TIME SETUP

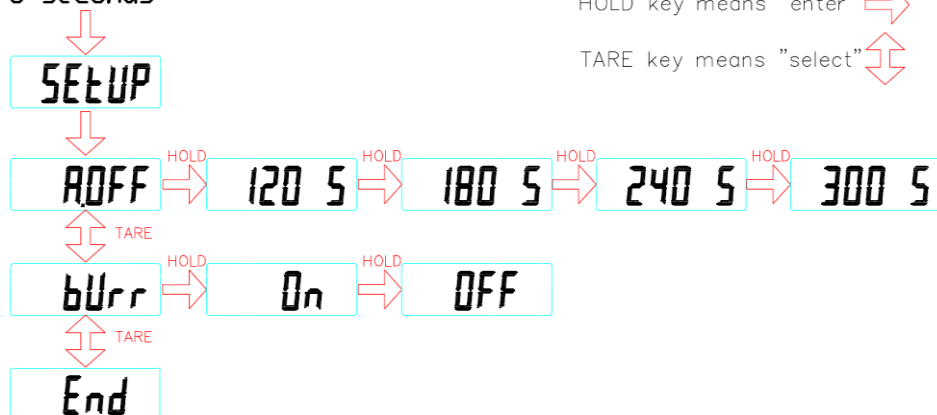
This enables operator to select the auto turn OFF time of the device.

BUZZER ON/OFF SETUP

This enables operator to select beep sound ON/OFF.

-
- Auto off time: 120 sec/180 sec/240 sec/300 sec/off
 - Buzzer: On/Off
-

Press ZERO key
3 seconds



*Please Press 'TARE' key to confirm the setting. If you want to select 240 as auto off time, press 'TARE' key when 240 displays on the screen.

** To apply the changes proceed till END displays on the screen.

PRINTING FUNCTION .

Weight, BMI and Height results can be printed for records using RS232 interface cable (included in accessory kit).

After weighing and calculating BMI simply press **PRINT** key to print out the results.

The format presented below is the standard format of results print-out and cannot be changed.

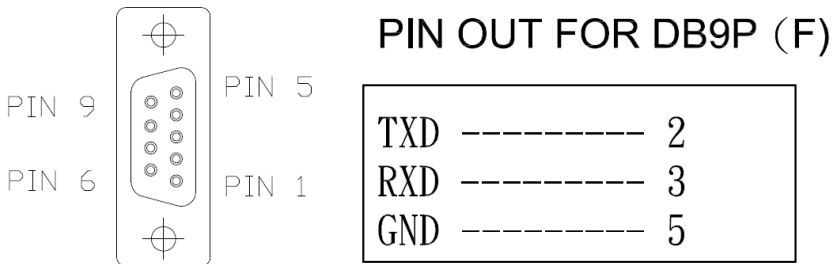
GROSS 60.00kg	WEIGHT
TARE 30.00kg	WEIGHT
NET 30.00kg	WEIGHT
PATIENT 100.0cm	HEIGHT

Parameters of RS232 interface

Set parameters of the scale interface on the connected device. It is not possible to change the scale parameters.

- Baud rate: 9600 bps
- Parity check: None
- Data length: 8 bits
- Stop bit: 1 bit
- Handshake: RTS/CTS
- Data code: ASCII

RS232 Pin out



Connecting with PC

1. Start Hyper Terminal

Start Hyper Terminal program from clicking

Start Menu → Programs → Accessories → Communication → Hyper Terminal.

2. New Connection Description

Give new connection a name then click OK.

3. Select Your COM Port

Click Connect to select your COM port. Usually there's only one option for select. Then click OK.

4. Port Settings

Click Bits per second to set up rate at 9600, Data bits at 8, Parity at None, Stop bits at 1 and Flow control at Hardware. Then click OK to complete your setting.

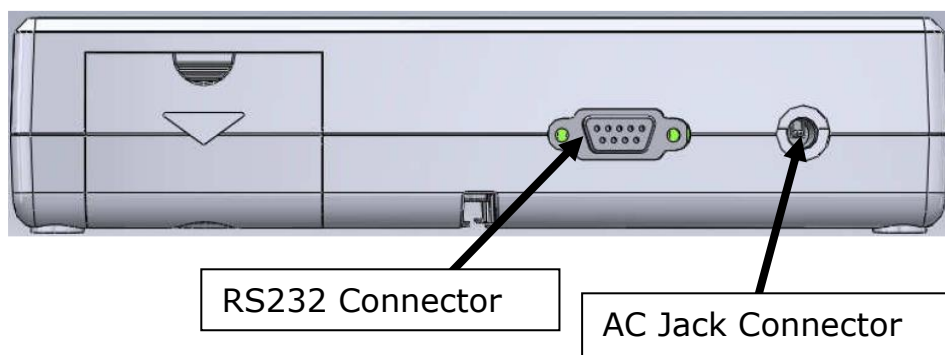
5. Output Data

When the patient has been weighed and BMI calculated, simply press the PRINT key to output data from scale to PC or an Optional Printer.

INSTRUCTION FOR CHARGING AND CONNECTING .

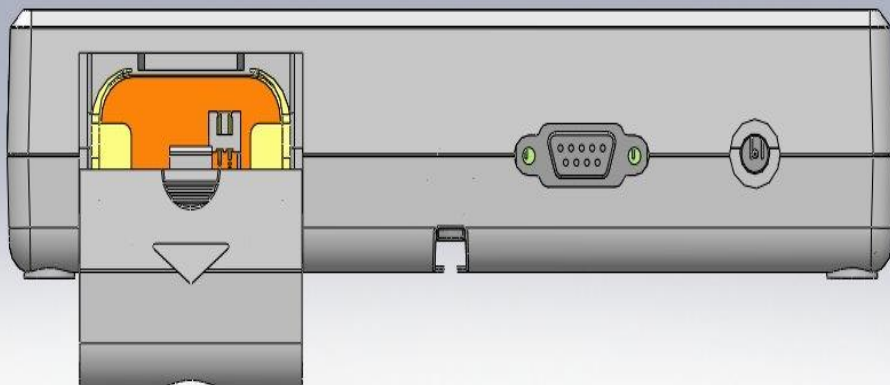
If **Lo** prompt displays on the LCD, please charge the scale with MS 4910 exclusive adaptor or replace the batteries.

Locate adaptor plug on the right side of indicator.



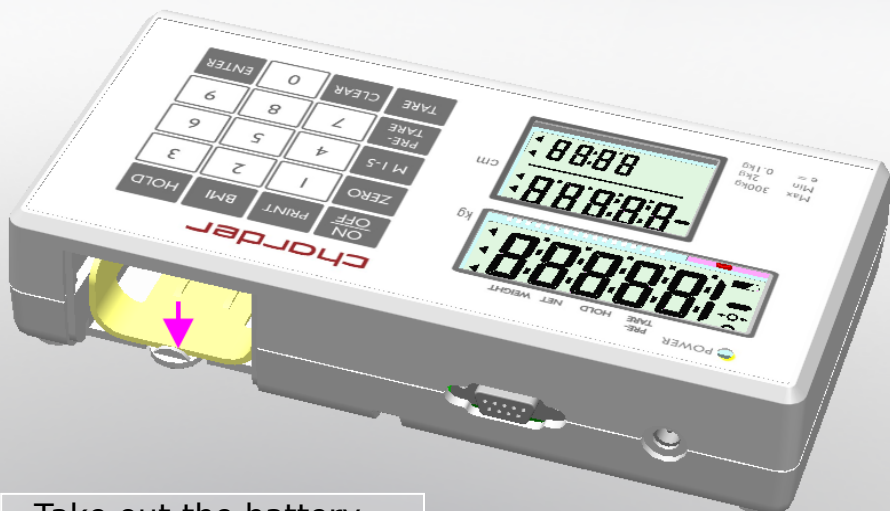
INSTRUCTION FOR REPLACING BATTERIES.

1.



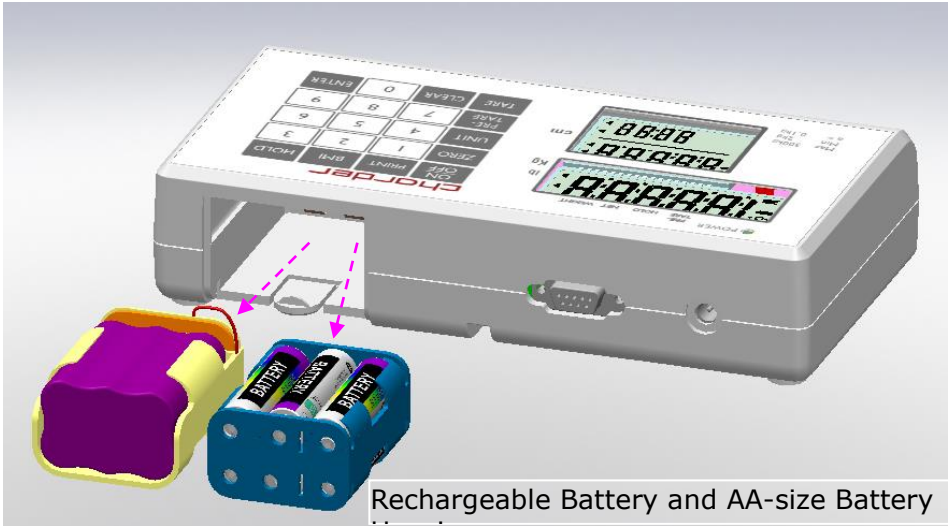
Open the battery housing cover

2.

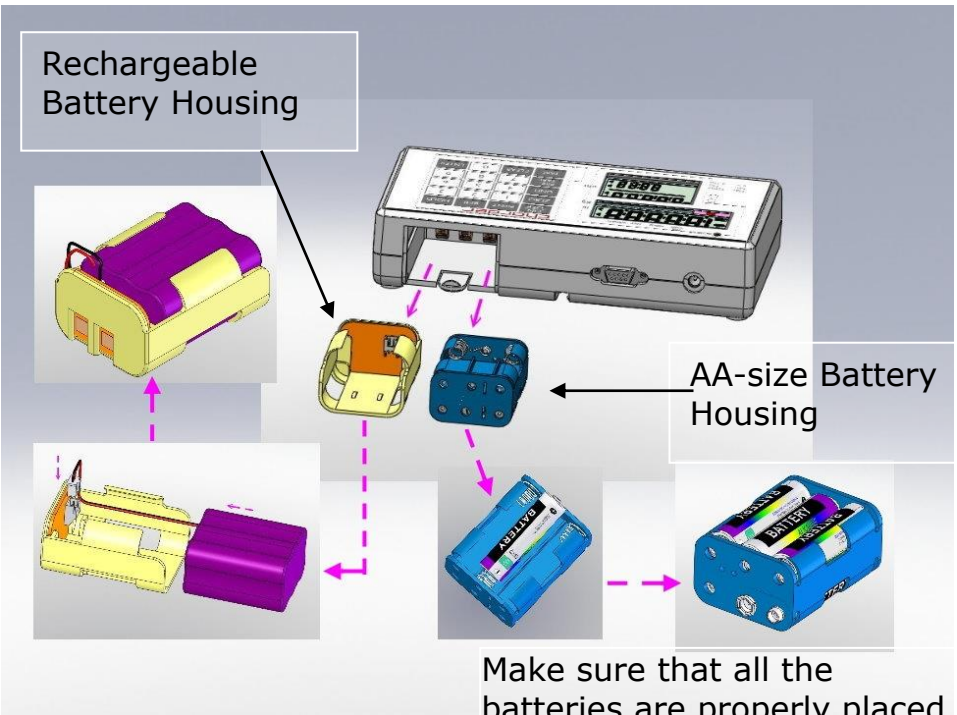


Take out the battery

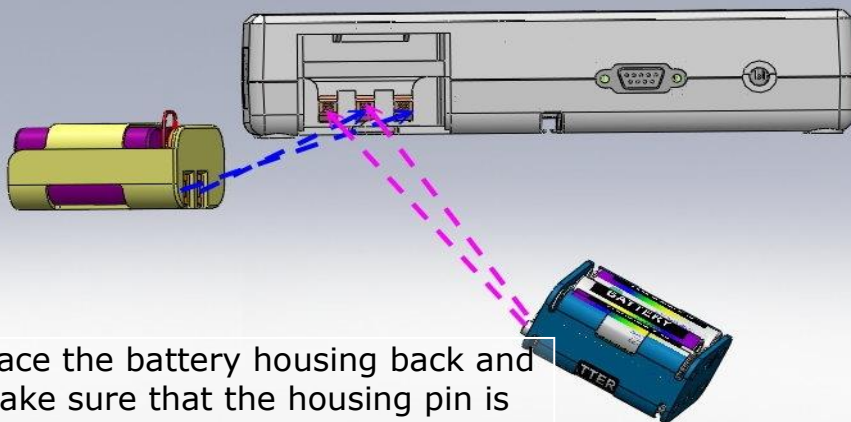
3.



4.

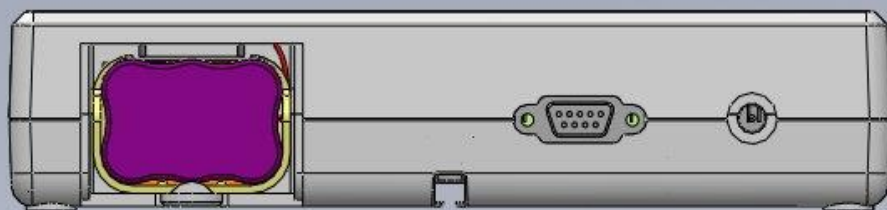


5.



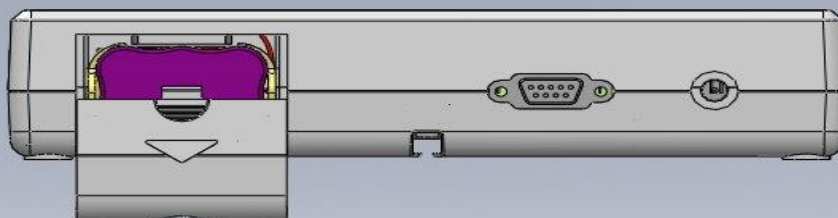
Place the battery housing back and make sure that the housing pin is connecting to the right point

6.



Place the housing back

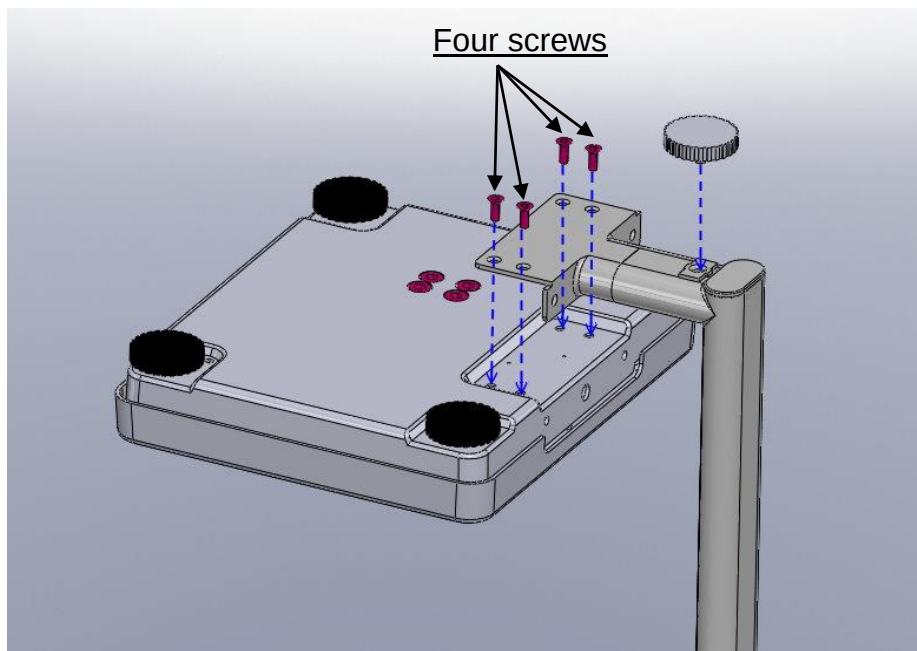
7.



Close the battery housing

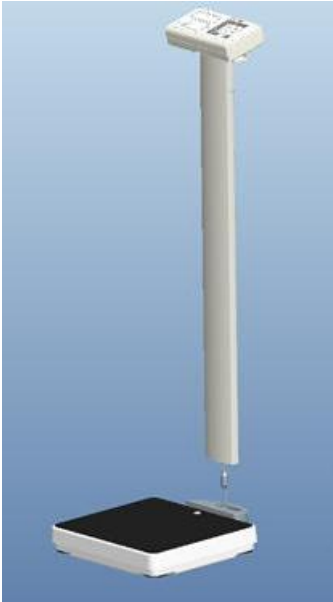
SCALE ASSEMBLING .

Tighten four screws at the bottom of base.
Assembly is complete.

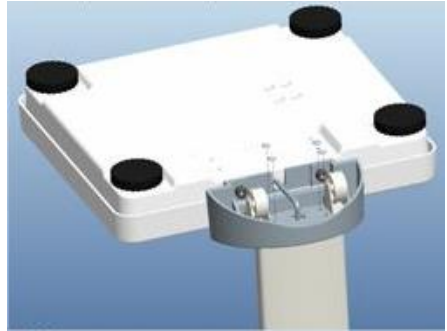


ASSEMBLY FOR COLUMN WITH CASTOR WHEELS .

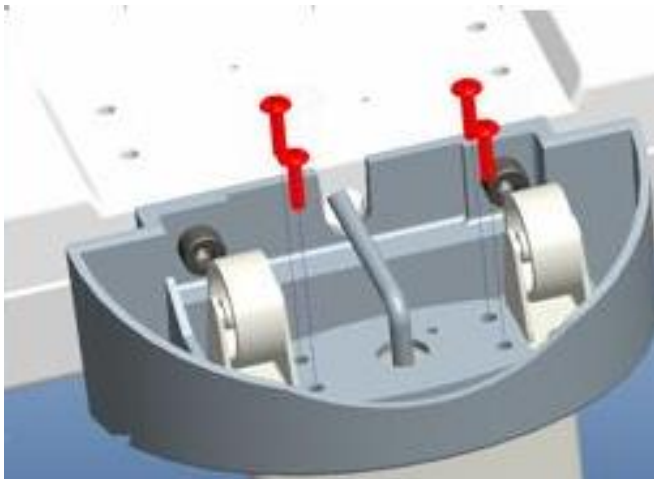
Step 1. Assembling column with base.



Step 2. Connecting wire between column and base first

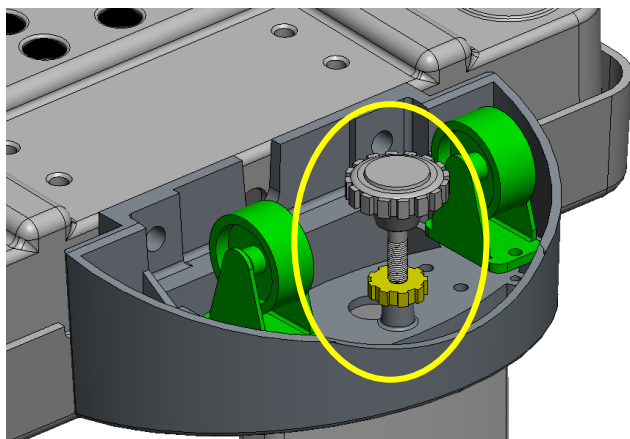


Step 3. Tightening four screws at the bottom of base. Assembly is complete.

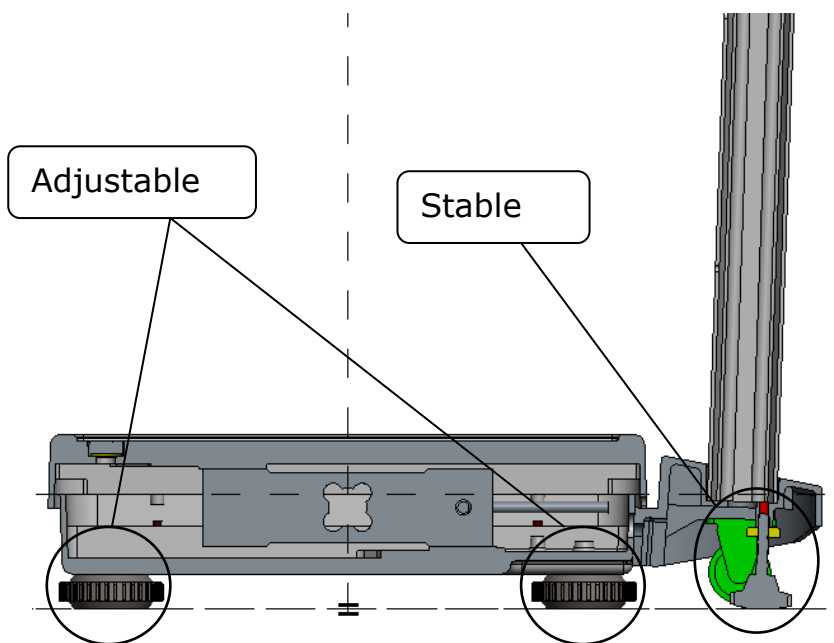


READ ME!! FOR MS4910 WITH CASTOR WHEELS .

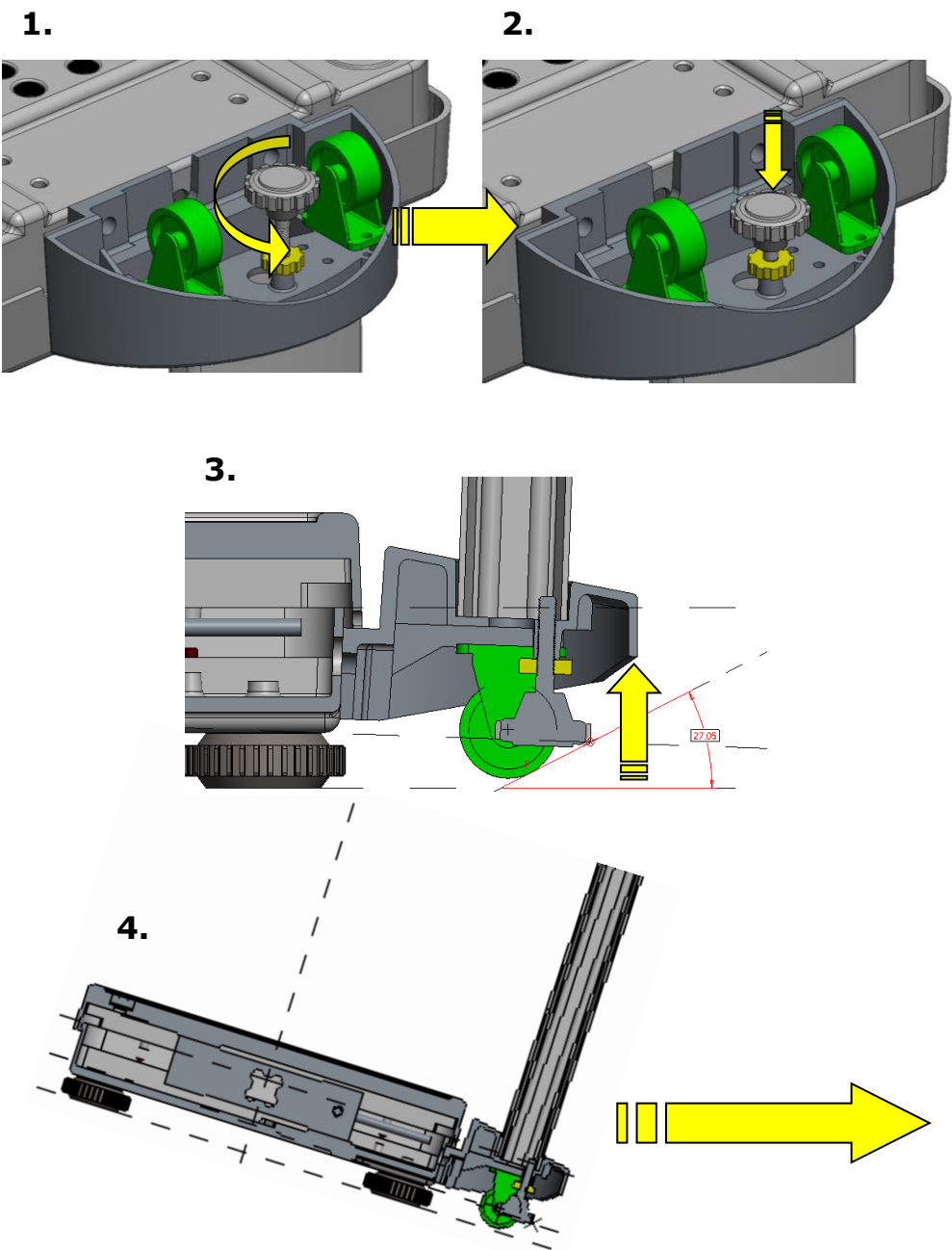
Please assemble stable feet after fixing column to the base.



Please make sure four adjustable feet and stable feet are on the ground at same level before put device into use.



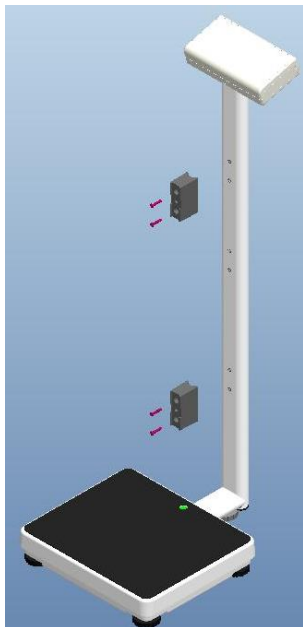
Adjust stable feet before moving the device



ASSEMBLING MS4910 WITH HM201M/201D/210D HEIGHT ROD .

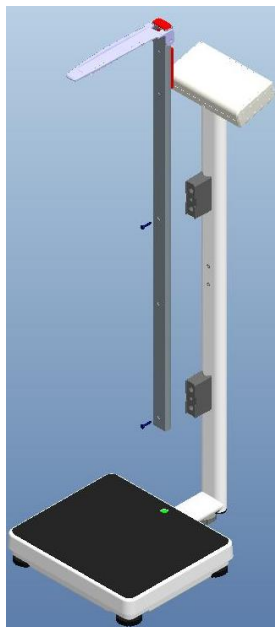
*Fixing two blocks with four flat-head screws

STEP 1.

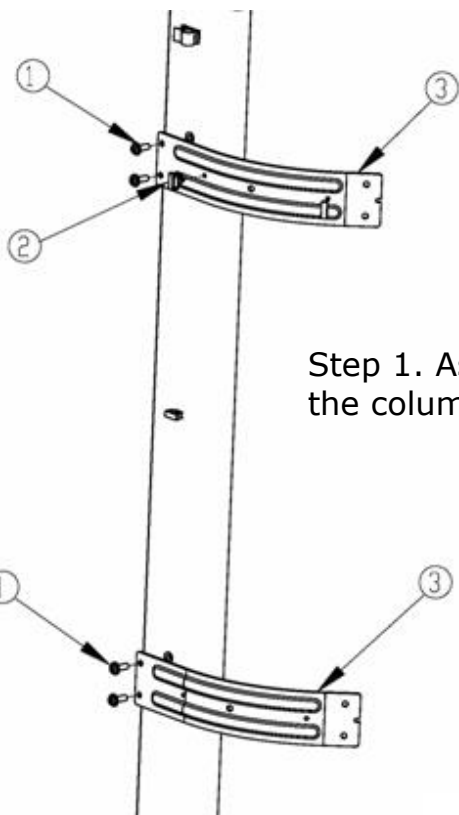


*Fixing height rod on the block with two flat-head screws.

STEP 2



ASSEMBLING HEIGHT ROD ON WIDE COLUMN.

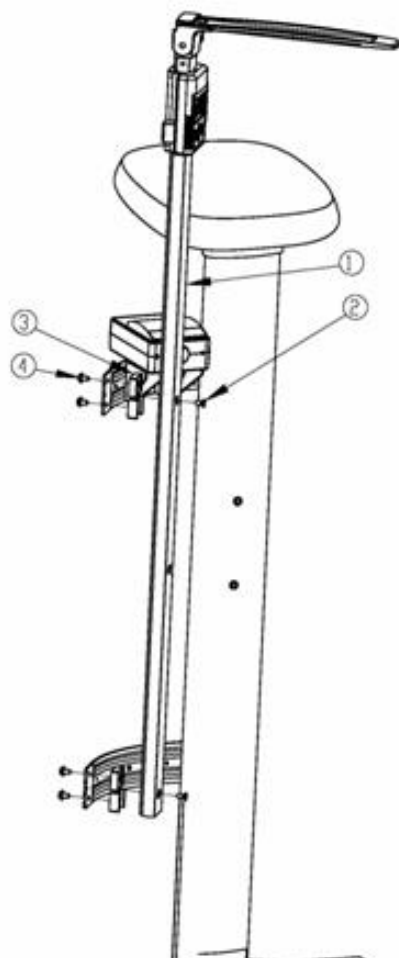


Step 1. Assemble two brackets on the column

Item	Name	Quantity
1	M5x0.8x11 round head screw	4
2	Relief Bushing	2
3	Bracket for HM-200D	2

* Photo of display for reference only. Please refer to the actual product.

HM201M is mechanical height rod which has same assembly procedure with HM200D/201D.

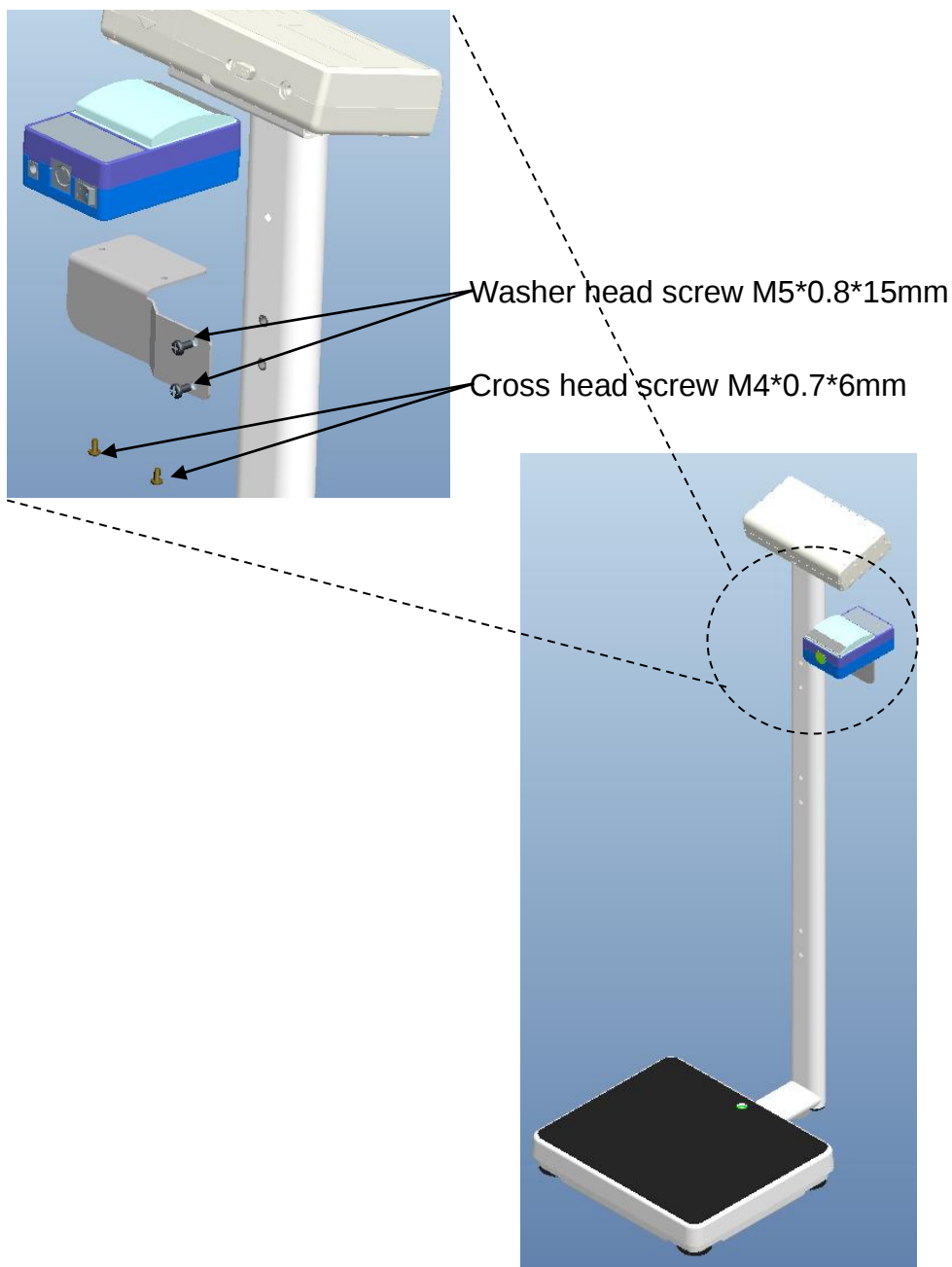


Step 2.
Fix HM200D/201D/201M on the bracket and tighten the screw.

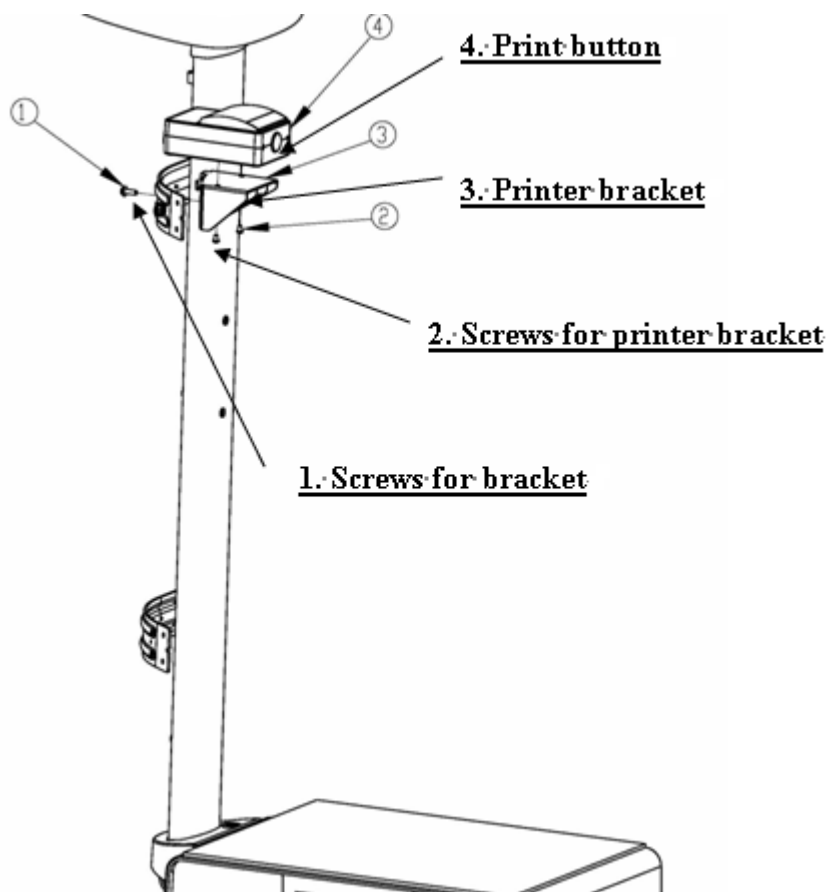
Item	Name	Quantity
1	HM201M/HM201D/HM200D	1
2	M5x10L flat head screw	2
3	Fixing block	2
4	M5x0.8x11	4

* Photo of display for reference only. Please refer to the actual product.

ASSEMBLING TP21XX SERIES THERMO PRINTER .

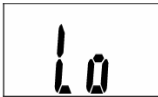
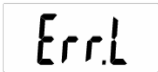


ASSEMBLING TP21XX SERIES THERMO PRINTER ON SCALE WITH CASTOR WHEELS .



Item	Parts	Qty
1	M5*15L head screw	1
2	Screws for printer bracket	2
3	Printer bracket	1

ERROR MESSAGE .

ERROR MESSAGE	REASON	ACTION
	Low Battery: This warning shows that the voltage of battery is too low to use	Please replace a new battery or plug the AC adaptor for operation.
	Overload: The total load exceeds the maximum capacity of scale	Please reduce the loading and try again.
	Counting error (too high): Indicates that the signal from the load cell/s is too height	This error is normally caused by a serious fault on the scales such as a faulty load cell or wiring. Please contact the local service representative.
	Counting error (too low): Indicates that the signal from the load cell/s is too low	This error is normally caused by a serious fault on the scales such as a faulty load cell or wiring. Please contact the local service representative.
	Zero count over calibration zero range +10% while power on	Please re-calibrate the instrument.
	Zero count under calibration zero range -10% while power on	Please re-calibrate the instrument.
	EEPROM Error: Indicates that there is a fault with the scales software	This error is normally caused by a serious fault on the scales such as a faulty load cell or wiring. Please contact the local service representative.

TROUBLESHOOTING .

Troubleshooting for defective modes:

Original purchaser can enjoy the benefits under the effective Warranty against functional defects in material and workmanship subject to the terms and conditions listed in the yearly Warranty Program & Return Policy. Our warranty service program includes the following:

1. Technician repair service under warranty or at a service maintenance charge depending on the workmanship for the defective functionality or cause of damage covered by the warranty.
2. Parts replacement from the manufacturing factory under the warranty or at a certain cost for the replaced parts plus the workmanship charge if not covered under the warranty.

Before you contact our Authorized Dealer in your country for technician repair service, please read through the following section carefully:

Self-checking Tips:

Some functional defects can be identified and maintained by users as listed below:

1. Power-on failure

- Check if the main power adaptor has not plugged onto the scale properly
- Check if the battery power is running low - Replace with new batteries

2.Indicator showing “0000” ZERO SPAN out of range

- Incorrect weighing result - Avoid damages by external environment force such as free-drop to the ground, collision by external objects, etc.
- Proper re-calibration procedure required to correct the setting of weighing accuracy.
- Interference due to RF disturbance, ground vibration... etc.
- Unstable platform feet adjustments according to bubble level indication
- Incorrect position or other external objects within weighing area
- The weighing-scale is not put in a solid & firm ground area, such as carpet floor or lawn.

3. Connection failure for data transmission to PC or printer

- Wrong connection wires or faulty wires for transmission between the digital indicator & load cells.
- Wrong indicator models
- Wrong internal wiring or wire broken

In case of the following defective mode occurs, it is suggested to contact your nearest Authorized Dealer for further technician service & repair:

1、POWER switch-on failure：

- Push-button faulty
- Short circuit wires - Wire broken
- Safety fuse burnt out
- Wire connection problem
- Main power adaptor faulty – Parts Replacement

2. LCD display faulty

- Possible hardware defects include: Uneven brightness in the LCD display screen & texts color blurred, smeared rainbow screen, incorrect decimal display
- LCD PIN broken or short circuit
- PCB cooper foil broken & loosed welding
- Unable to save or read data – IC or transistor faulty, internal parts broken.
- LCD showing “ERRL” after switch on - Load cell damaged
- Overload may cause the weigh to malfunction.
- Software system crash
- Resonator faulty
- Load cells with faulty grinding standard.
- Key buttons failure - Front key panel damaged or disconnected

3. Buzzer malfunction

- Wrong welding of PVC wire
- Key buttons & control panel damaged or disconnected.

[illegible]

[illegible]

Notes

[illegible]

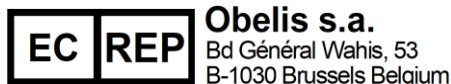
Manufacturer's Declaration of Conformity.

This product has been manufactured in accordance with the harmonized European standards, following the provisions of the below stated directives:

	93/42/EEC as amended by 2007/47/EC Medical Device Directive
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Please see separate document showing on sticker of device for above CE marking.

Authorized EU Representative:



Manufactured by:



Charder Electronic Co., Ltd.
No.103, Guozhong Rd., Dali Dist.,
Taichung City, 41262 Taiwan