

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:

 2460	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:



Obelis s.a.

Bd Général Wahis, 53
B-1030 Brussels
Belgium

Manufactured by:

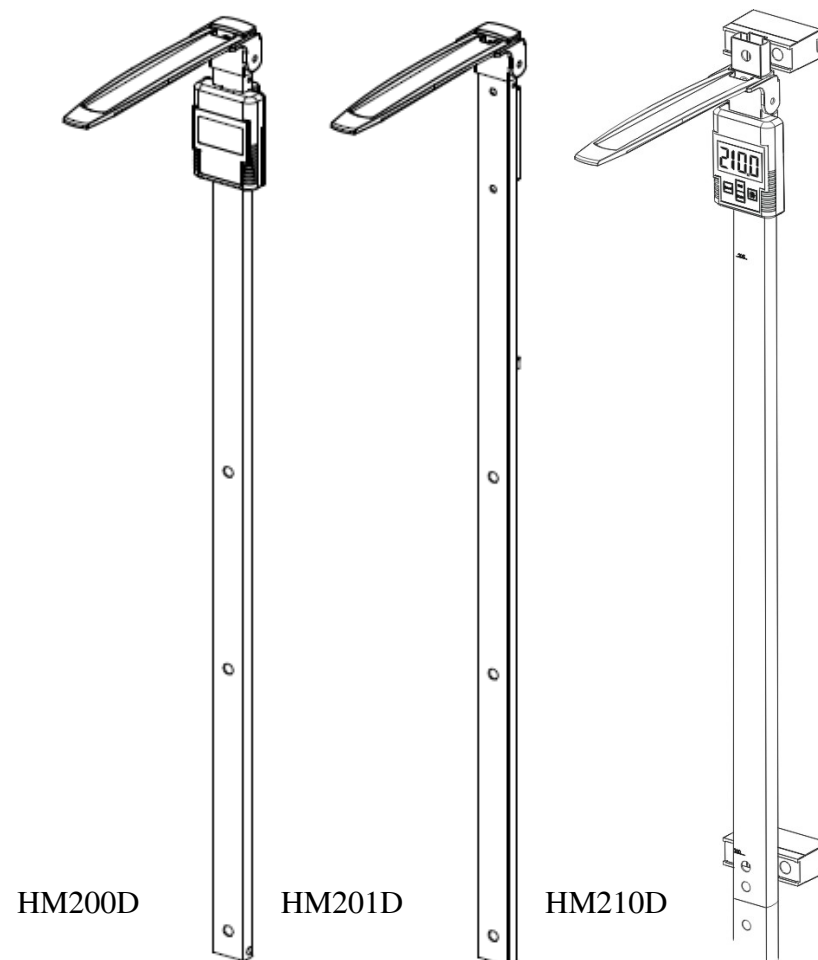


Charder Electronic Co., Ltd.

No.103, Guozhong Rd., Dali Dist.,
Taichung City 412, Taiwan (R.O.C.)

CD-IN-1047 [8040N]

charder®



HM 200/201/210D Height Measurement USER MANUAL

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

TABLE OF CONTENTS

PREFACE.....	2
SAFETY INSTRUCTION	2
CLEANING.....	3
INTENDED USE.....	3
MAINTENANCE	3
SAFETY INSTRUCTIONS	3
WARRANTY.....	4
Explanation of Graphic Symbols	5
SPECIFICATION	6
KEY FUNCTIONS	7
PRODUCT INTRODUCTION	8
INSTALLATION INSTRUCTIONS	10
USING HM 200/201/210D	17
CALIBRATING HEIGHT ROD	21
BATTERY INSTALLATION	23

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

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:

- ♦ 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 mains 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.
- ♦ After using the height rod in a certain period of time or using the top rod sliding up and down about 5,000 times during measuring, it might cause sliding off automatically. We suggest changing to a new height rod based on frequencies of use

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

CLEANING

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

INTENDED USE

This scale is used to determine weight of patients who are supported by professional personnel in rooms intended for carrying out health care. The weighing value can be read off after a stable weighing value has been obtained. Before any use, the scale must be checked for correct condition by the authorized person.

MAINTENANCE

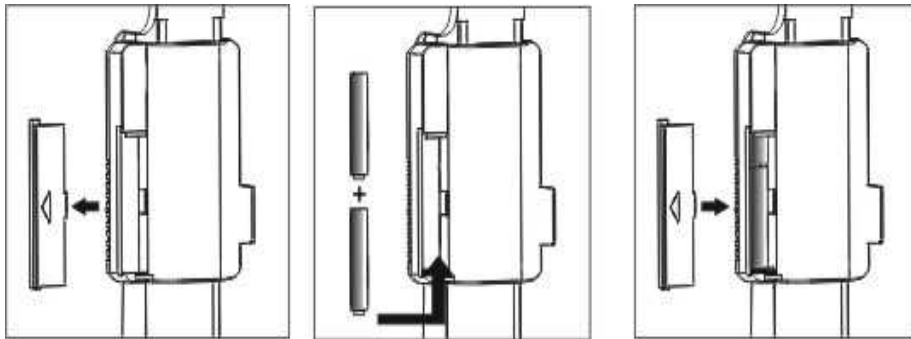
The devices do not require any routine maintenance. However, we recommend checking the accuracy at regular intervals. The regularity of these checks is dependent on the level of use. If any inaccuracies occur, please contact your local dealer or CHARDER MEDICAL service partner.

SAFETY INSTRUCTIONS

Before using the new measuring rod, please take time to read the following safety instructions:

- ♦ Follow the operating instructions.
- ♦ Attach the measuring rod only to Charder column scale.
- ♦ Use the assembly material supplied.
- ♦ When assembling, ensure that screws are tight and that the rod has been assembled correctly
- ♦ (See chapter “Assembly instructions”).
- ♦ Fold the measuring head piece after height has been taken to avoid risk of injury.

BATTERY INSTALLATION



- Remove the battery cover at the rear of indicator.
- Install 2-AAA size batteries.
- Put the battery cover back.

Note: HM 201D don't need batteries to operate; it starts working as it is connected with DP3400 or DP37xx indicator. DP 2701 indicator doesn't support HM 201D.

Warning: If the height rod is not in use for long time, take out the batteries and store them separately, in case of any leakage from battery would damage the measuring rod.

Note: When the new batteries have been installed, it is recommended to reset the height rod using reset key.

WARRANTY

A two-year warranty from date of delivery applies to defects attributable to poor materials or workmanship. All moveable parts batteries, cables, mains units, rechargeable batteries etc.- are excluded. Defects, which come under warranty, will be made good for the customer at no charge on production of the receipt. No further claims can be entertained. The costs of transport in both directions will be borne by the customer should the equipment be located anywhere other than the customer's premises. In the event of transport damage, claims under warranty can be honored only if the complete original packaging was used for any transport and the scale secured and attached in that packaging just as it was when originally packed. All the packaging should therefore be retained.

A claim under warranty will not be honored if the equipment is opened by persons not expressly authorized by Charder to do so.

We would ask our customers abroad to contact their local sales agent in the event of a warranty matter.

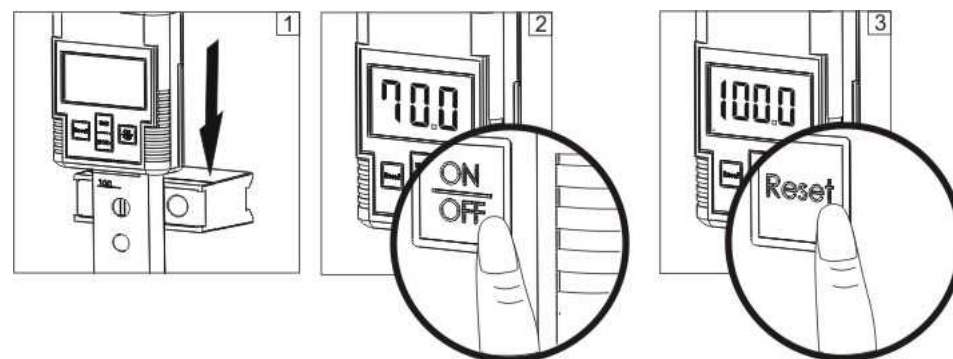
PLEASE VISIT WWW.CHARDERMEDICAL.COM FOR MORE INFORMATION.

Explanation of Graphic Symbols

SN-21300100	Designation of the serial number of every device. (Number as an example)
	"Please note the accompanying documents" or "Observe operating instructions"
 Charder Electronic Co. Ltd No.103 Guozhong Rd, Dali Dist, Taichung City 412, Taiwan (R.O.C)	Identification of manufacturer of medical product including address.
	"Type BF applied part"
	Dispose of old appliances separately from your household waste. This product must be disposed of at a communal collection point.
	Carefully read this operation manual before setup and commissioning, even if you are already familiar with Marsden products.

- Connect HM 201D with indicator (Picture-1)
- Turn ON the scale by pressing ON/OFF key (Picture-2).
- Press BMI key to check current height.
- Sliding the measuring rod downward completely (Picture-3).
- If the height display is not '120cm', press Reset button to calibrate the height. It will be '120cm' (Picture-3).

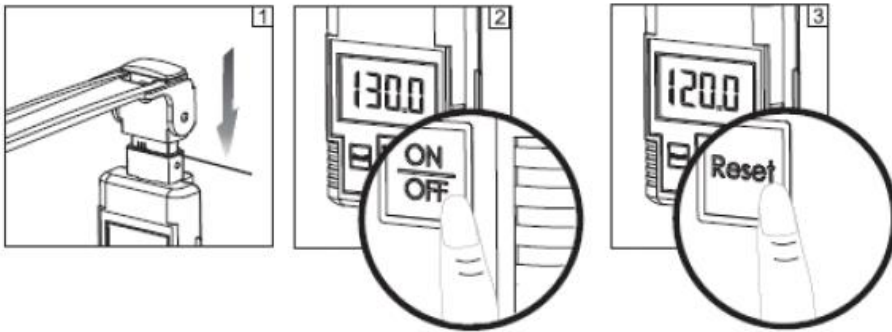
3. HM 210D



- Sliding height indicator downward to the end of measuring rod (Picture- 1).
- Turn ON HM 210D by pressing ON/OFF key (Picture-2).
- If the height display is not '100cm', press Reset button to calibrate the height. It will be '100cm' (Picture-3).

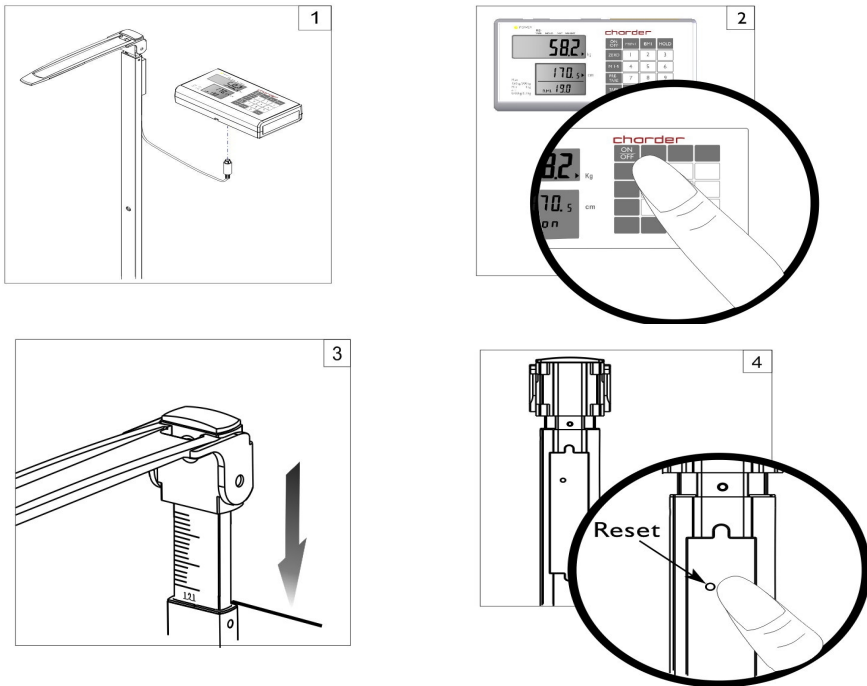
CALIBRATING HEIGHT ROD

1. HM 200D



- Sliding the measuring rod downward completely (Picture-1)
- Turn ON HM 200D using ON/OFF key (Picture-2).
- If the height display is not on '120cm', press Reset button to calibrate the height. It will be '120cm'(Picture-3).

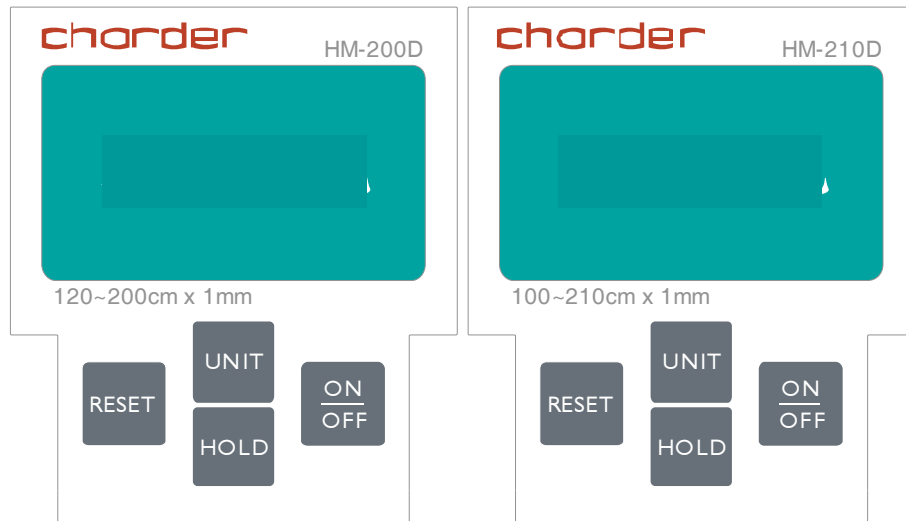
2. HM 201D



SPECIFICATION

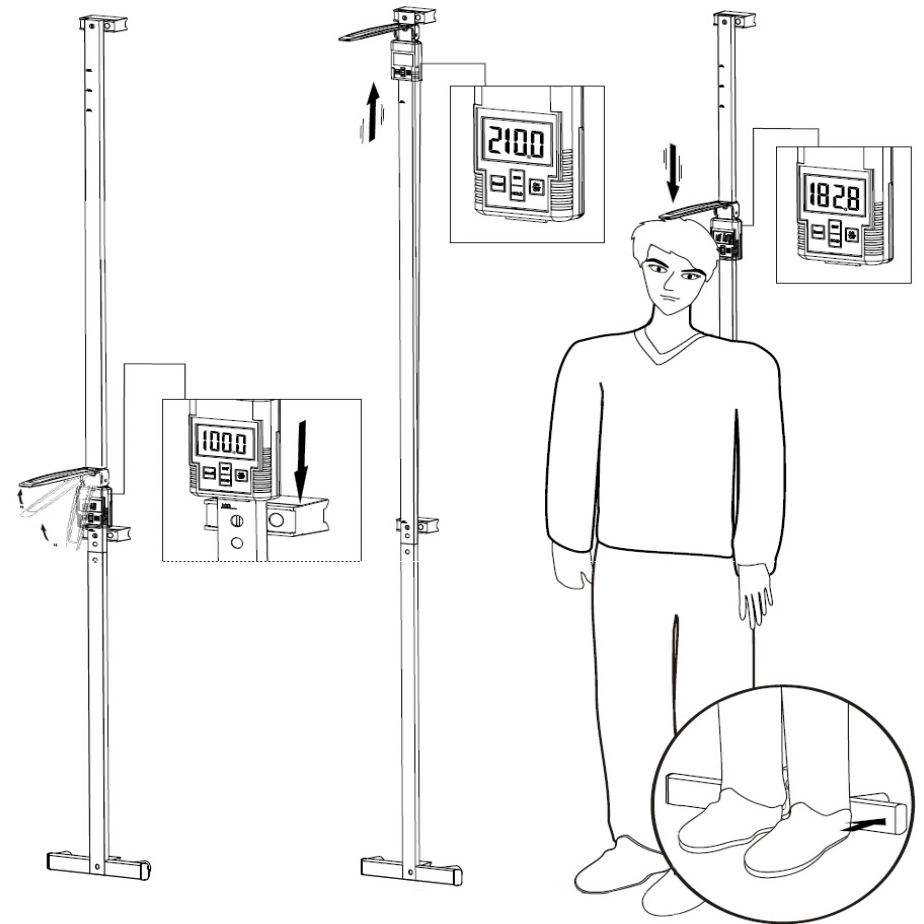
Model	HM 200D	HM 201D	HM 210D
Type	Scale mounted digital height rod		Wall mounted digital height rod
Keys	Hold, Reset, Unit	Reset Button	Hold, Reset, Unit
Measurement range	120~200cm	120~200cm (Digital measuring range)	100-210cm
		60~120cm (Mechanical measuring range)	
Graduations	1mm		
Accuracy	±1.5mm		
Dimensions	40x30x1780mm		70x80x2100mm
Weight	0.85kg		1.25kg
Power Supply	2 * AAA-size batteries	From Indicator	2 * AAA-size batteries
Temperature range	5℃ up to 35℃		

KEY FUNCTIONS



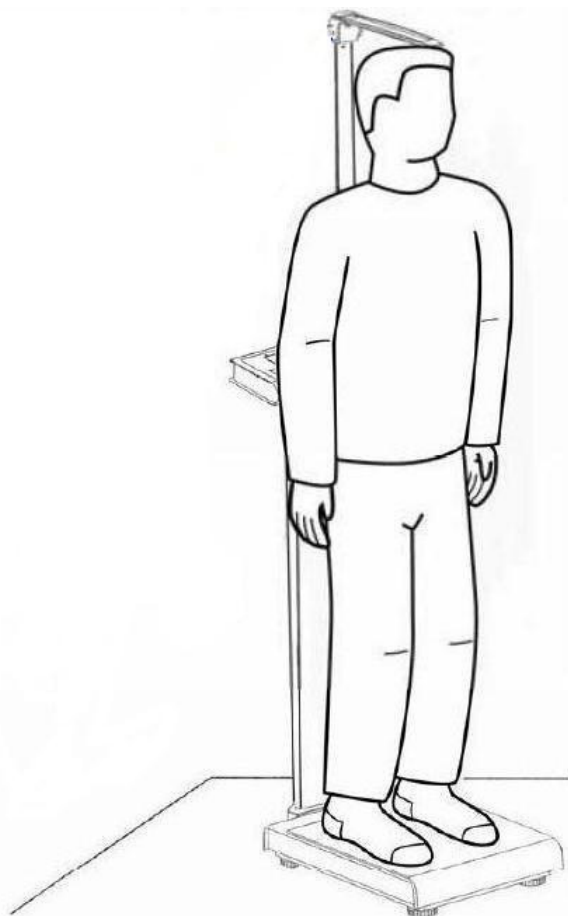
KEYS	DESCRIPTION
ON/OFF	Press to switch on and off.
UNIT	To select the measurement unit between cm, ft/inch and inch.
HOLD	To enable value store function during measuring. Current height value of user will be stored and displayed. Press again to disable the function.
RESET	To calibrate the measurement.

3. HM 210D



- Sliding up the measuring rod upward.
- Sliding down the head piece until slightly touches head.
- When the head piece touches the head of the person, display will show the exact height of the person.
- To lock the height on the display by pressing HOLD key.
- Press HOLD key again to disable the HOLD function.

2. HM 201D



- Sliding the measuring rod upward.
- Sliding down the head piece until slightly touches head.
- When the head piece touches the head of the person, display will transfer height data to the scale.
- You can use BMI functions of scale to recall and calculate BMI , weight and height.

***Connecting USB wire to the scale will enable height transfer function. You can calculate BMI with height and weight taken by height rod and scale.

PRODUCT INTRODUCTION

HM 200D

HM 200D is a digital height rod to be mounted on the Charder Scale with measuring range from (120~200cm). HM 200D have LCD display for convenient, accurate and quick height measurement. It can be connected with the scale indicator to transfer the height measurements directly, therefore while calculating BMI the users don't need to enter the height. Simply step on the weighing platform and as the weight stabilizes adjust the head piece to measure the height, the scale will display the height and BMI results.



HM 201D

HM 201D is a digital height rod to be mounted on the Charder Scale with measuring range of (120~200cm), HM 201D don't have LCD display, instead it automatically transfers the height measurement to weighing scale, therefore while calculating BMI the user don't need to enter the height. Simply step on the weighing platform and as the weight stabilizes adjust the head piece to measure the height, the scale will display the height and BMI results.

It can also be used as mechanical height measurement rod. For mechanical measurement range starts from (60~200cm) making it an ideal measurement rod for measuring height of children and adults as well.



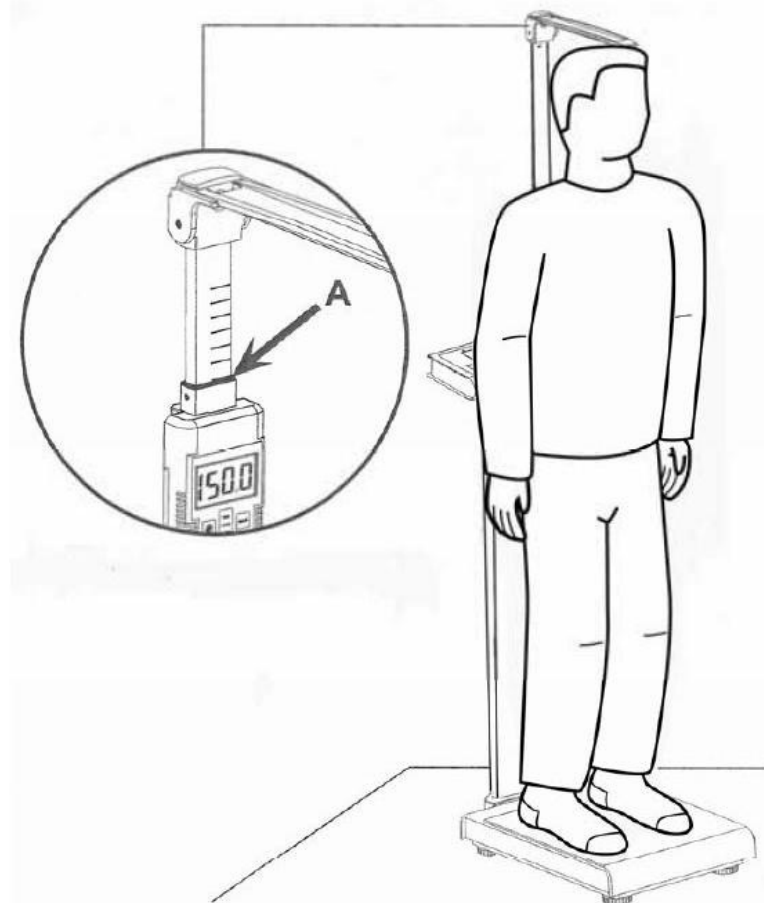
HM 210D

HM 210D is a digital height rod to be mounted on the wall with measuring range from 100~210cm. HM 210D have LCD display for convenient, accurate and quick height measurement. Its hold function makes it possible for female nursing staff to measure a taller person. Simply adjust the head piece and make it touch the head of the person and then press the hold key. After this ask the person to move away from the measurement rod and pull the head piece down. The height result will remain on the display.

For Detailed BMI procedure, please refer to any of 'Charder's' weighing scale user manual.



1. HM 200D

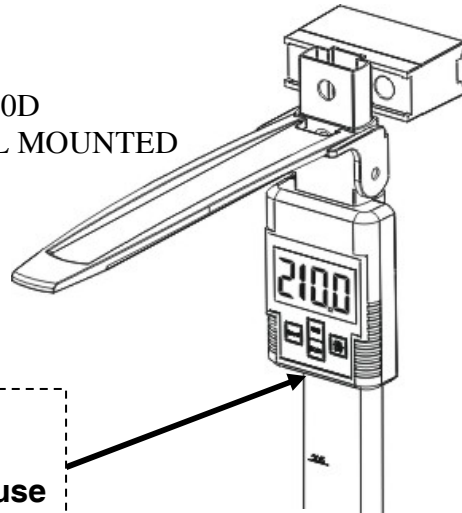


- Sliding up the measuring rod upward.
- Sliding down the head piece until slightly touches head.
- When the head piece touches the head of the person, display will show the exact height of the person.
- To lock the height on the display, press HOLD key.
- Press HOLD key again to disable the Hold function.

***Connecting USB wire to the scale will enable height transfer function. You can calculate BMI with height and weight taken by height rod and scale.

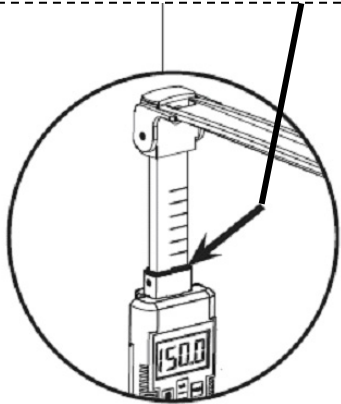
USING HM 200/201/210D

HM210D
WALL MOUNTED

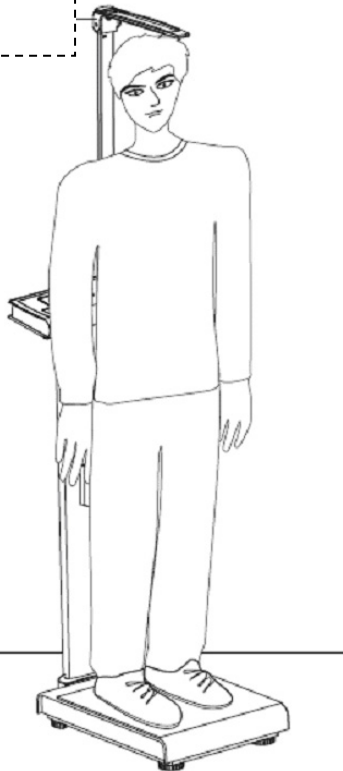


Read The Height Here!!!

For people who wants to use it as mechanical height rod.



HM200D
SCALE MOUNTED

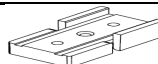


INSTALLATION INSTRUCTIONS

HM200D / HM201D standard accessories

No.	Accessories	Item	Spec.	Qty.
1		Supported black Block	WH-8026	2
2		Flat head screw	M5*0.8*10	2
3		Cross head screw	M5*30	4

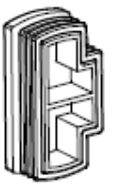
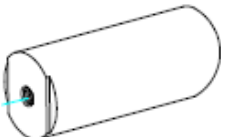
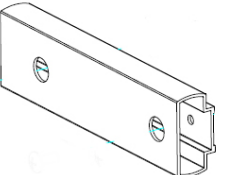
HM200D / HM201D/ HM201M standard accessories for scale with castors

No.	Accessories	Item	Spec.	Qty.
1		Bracket for height rod	SS-5721	2
2		Fixing block for height rod	ST-3331	2
3		Screw	M5*11	8
4		Relief Bushing	M5*30	2
5		Flat head screw	M5*10	2

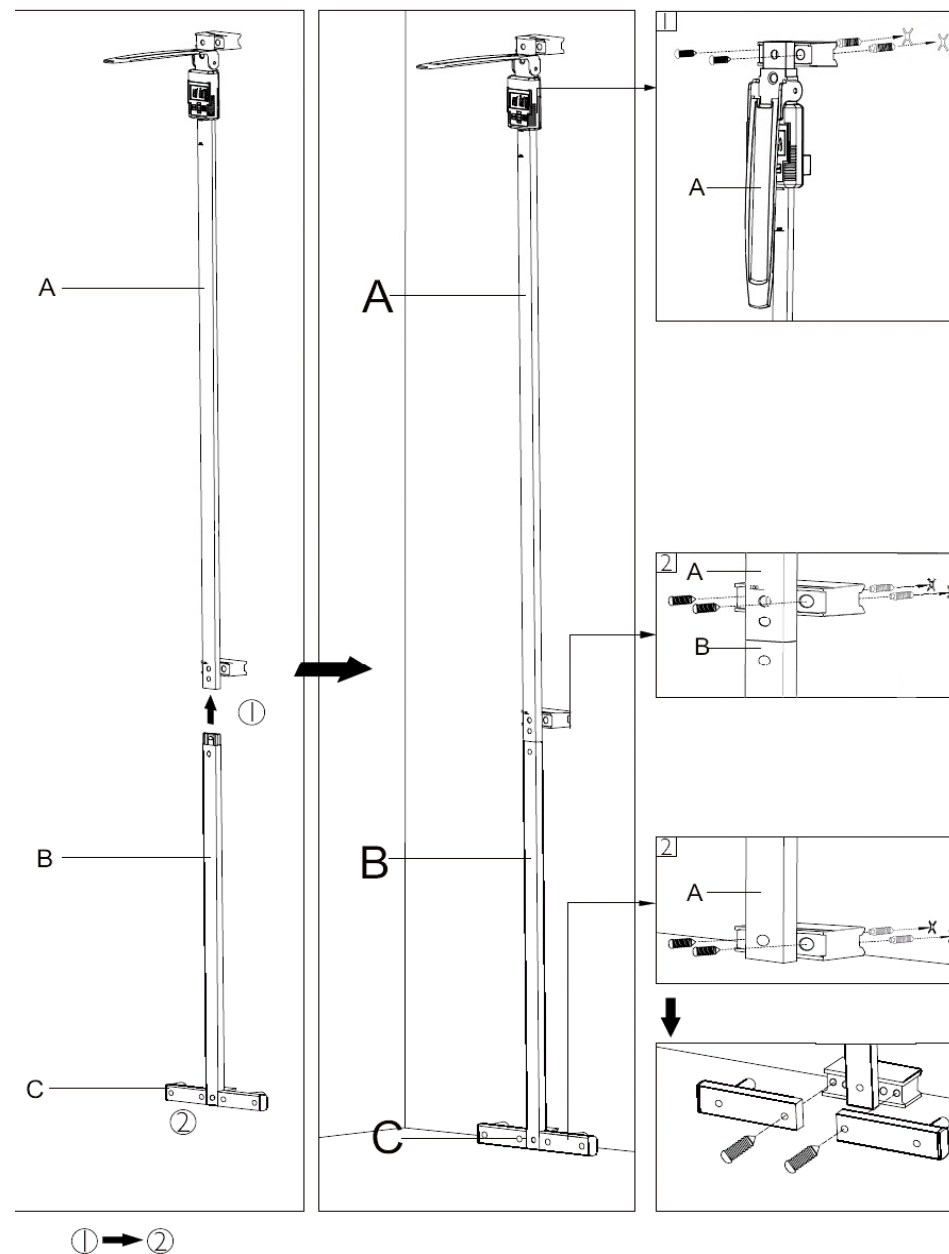
HM210D standard accessories (wall mount parts)

No.	Accessories	Item	Spec.	Qty.
1		Supported Block	WH-8026	3
2		Washer head screw	M5*0.8*11	3
3		Self tapping screw	M4*30	6
4		Plastic anchor	1"(white)	6

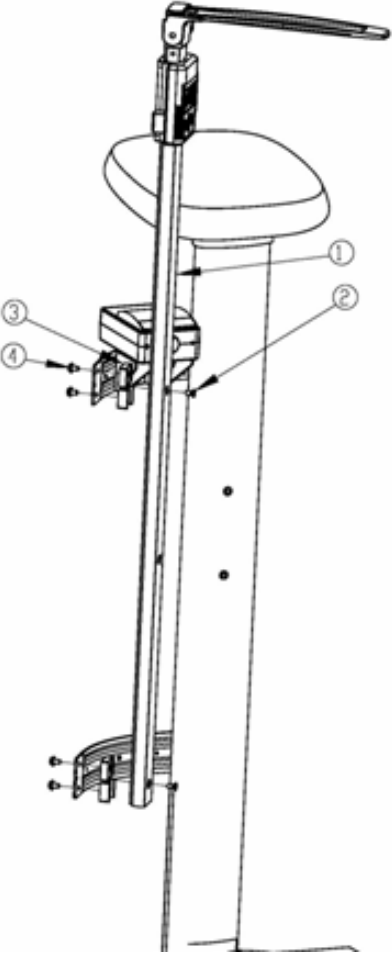
HM210D standard accessories (Heel plate parts)

No.	Accessories	Item	Spec.	Qty.
1		Plastic plug	SW-8069	3
2		Rubber tub	SS-8152	2
3		Heel plate	SS-8149	2
4		Self tapping screw	4*12	4

ASSEMBLY OF HM 210D



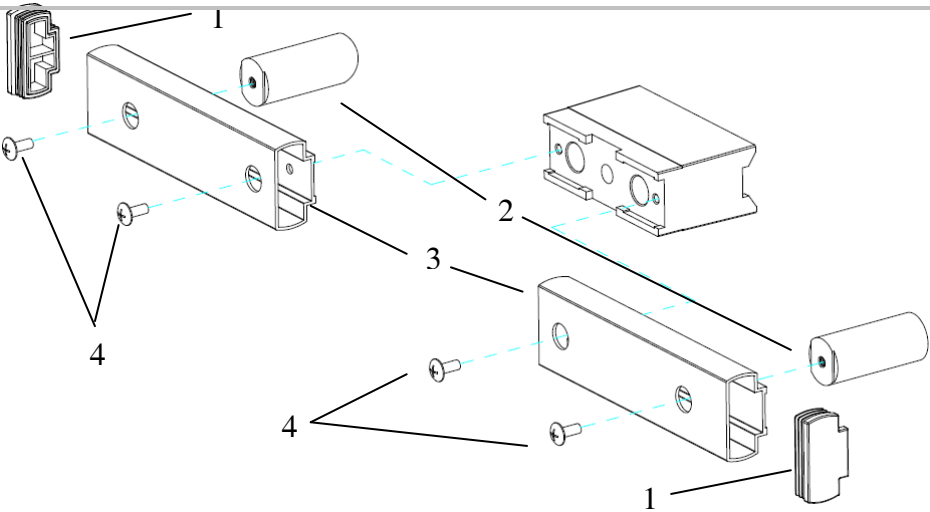
HM201M is mechanical height rod which has same assembly procedure with HM200D/201D.



HM200D/201D

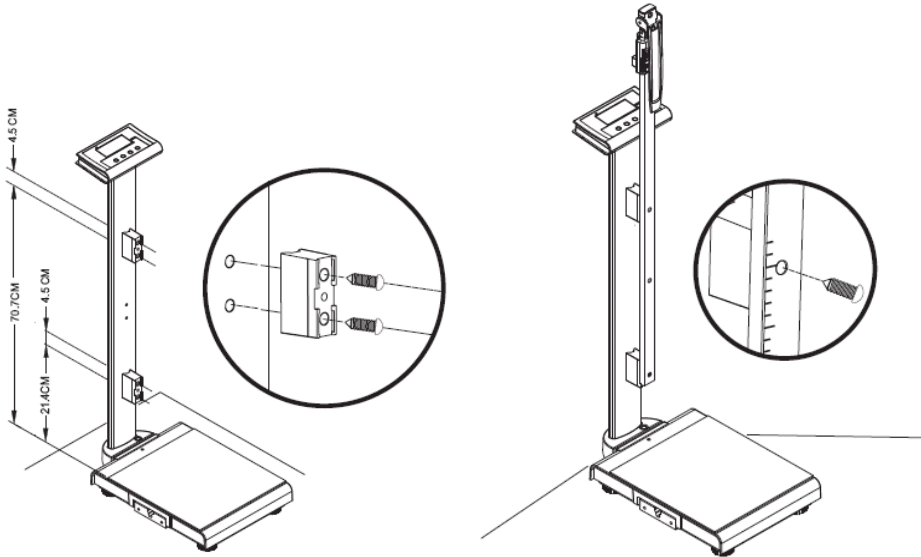
Step 2.
Fix HM200D/ 201D/ 201M on
the bracket and tight the screw

Item	Name	Quantity
1	HM200D/ 201D/ 201M	1
2	M5x10L Flat head screw	2
3	Fixing block for height rod	2
4	M5x11L screw	4



ASSEMBLY OF HM 200D & HM201D

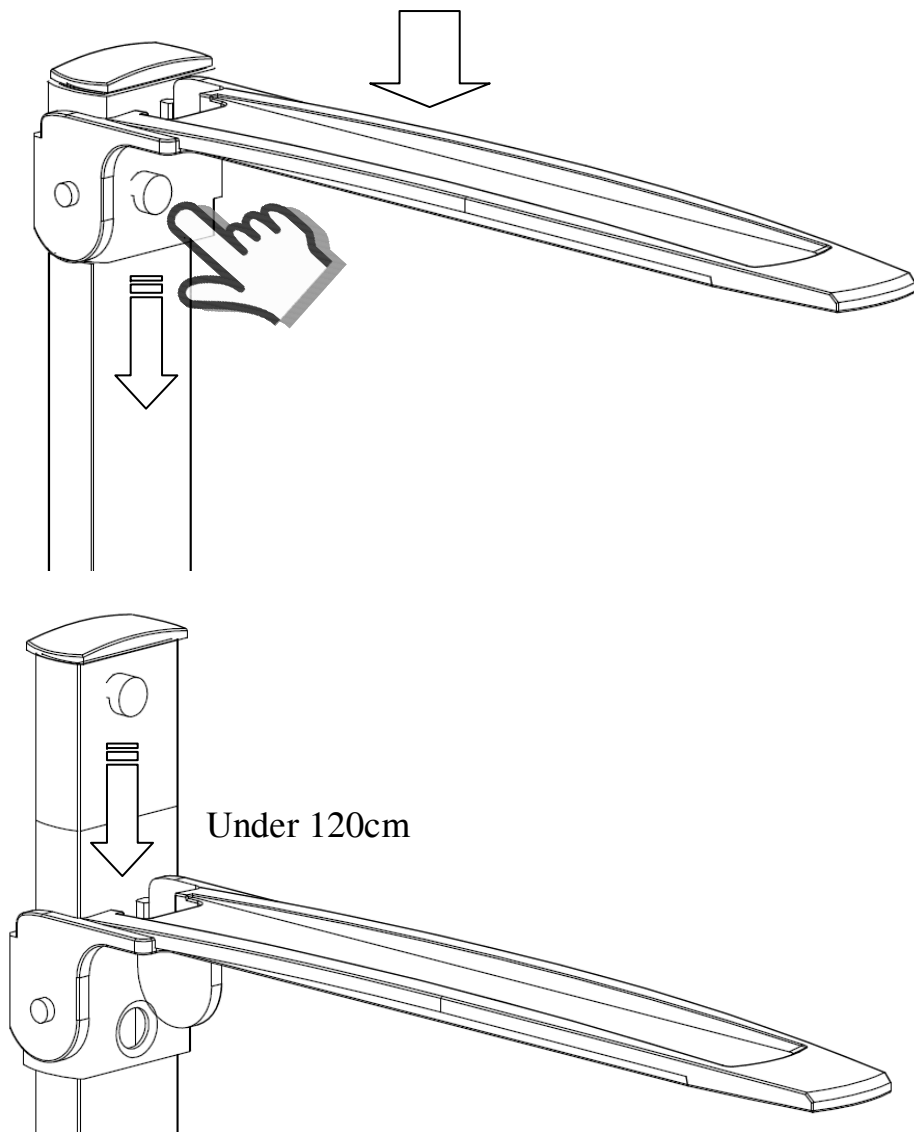
- Fixing the bracket on the column of the scale using the screws provided with the height rod.



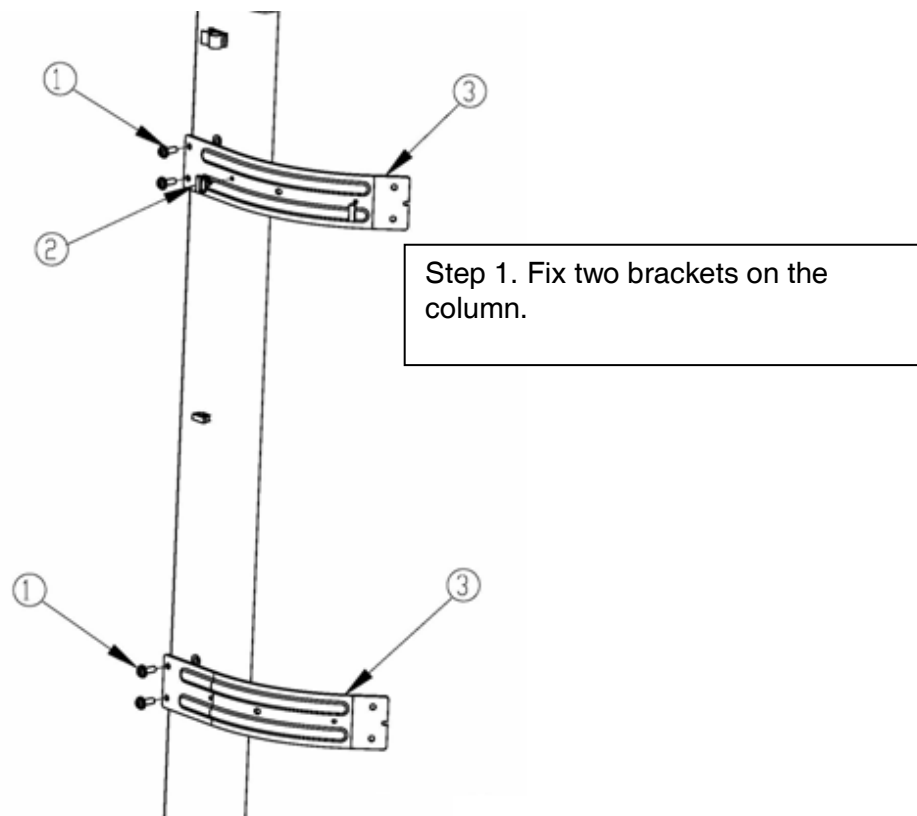
*Fix the bracket installation by step

*Screw the height rod on the bracket.

For measure height lower than 120 cm
Please use HM 201D as a mechanical scale and press buckle as shown in the picture below and slide the head piece down.



Assemble HM200D/201D/201M on the scale with wheel castors.



Item	Name	Quantity
1	M5x11L screw	4
2	Relief Bushing	2
3	Bracket for height rod	2

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