



PSTW10
Patient Lift Scale
Operating Manual

ATTENTION

Before using this Medical Device read this manual. If you are unable to understand, contact your equipment provider for technical support before attempting to use this product.

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SAFETY GUIDE

Taking care to properly use the scale will extend its life, which includes but is not limited to:

Rotating the load during use, rather than the scale.

Check clips, pins, and screws regularly. Inspect the shackle and hook prior to each use.

Do NOT go over the scale's capacity. Doing so may damage loadcell and void the warranty.

Do NOT leave loads hanging on the scale longer than is necessary. This will keep the scale's accuracy sharp and extends its lifetime.

Do NOT use the scale under thunder or rain.

Do NOT Place the scale directly on the ground. Instead place the scale on a shelf in a dry and well ventilated room.

Do NOT attempt to repair the scale yourself. Contact your local representative for repairs.

FEATURES

This scale is the result of sound mechanical design with a proven record. With its utilization of advanced electronics it provides a robust feature set that is accurate, adaptable, and straightforward to use.

Functions: Unit conversion, auto power-off, battery inspection, resolution switch and more.

Top quality: Strictly in accordance with OIML R76, European CE directives, and Chinese GB/T11883-2202 national standards.

Durable Safety: High firm hook, aluminum-casting case, shackle, dedicated weighing loadcell for safe installation.

Reliable: High quality integrated circuit provides reliable performance and long-lasting stability.

Broad Use Cases: Scale of choice in many fields and industries such as storage, textiles, and metallurgy.

SPECIFICATIONS

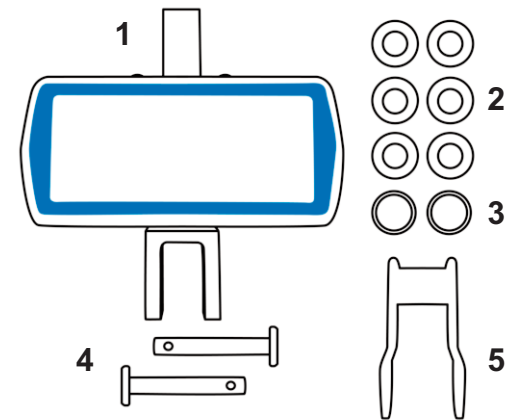
Accuracy	Chinese GB/T 11883-2002 CIII eqv. OIML R76
Tare Range	100% F.S.
Zero Range	4% F.S.
Stable Time	≤10 seconds
Safety Load	120% F.S.
Overload	100% F.S. + 9e
Ultimate Load	400% F.S.
Battery	4*AA 1.5V batteries
Battery Life	≥65hour (tested by dedicated batteries, backlight level 3, always lit)
Display	43mm HTN LCD with backlight
Op. Temp.	-10°C ~ +40°C
Op. Humidity	20°C ≤90%

CAPACITY

Model	Max Cap.	Min Cap.	Res.	Division
PSTW10	300kg	2kg	0.1kg	3,000

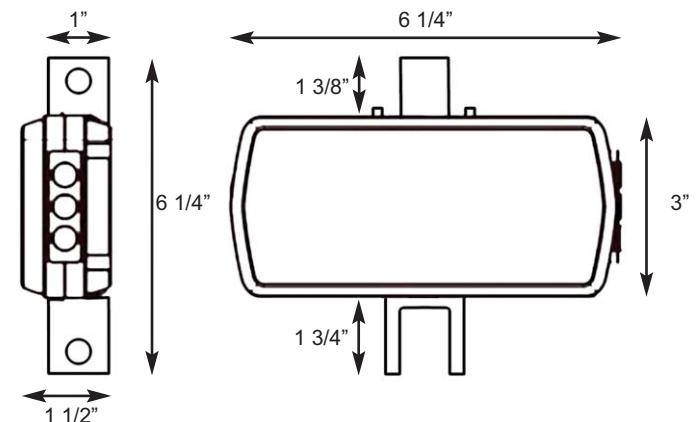
COMPONENTS OF THE PACKAGE

1. High resolution scale crane
2. 3 sets of Phillips Pan Head Screws with Washers
3. 2 PCs of Key rings
4. 2 PCs of Pin Locks
5. Optional Adaptor

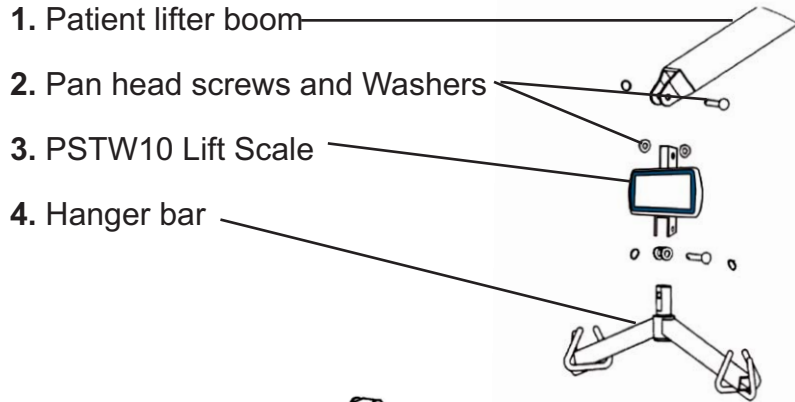


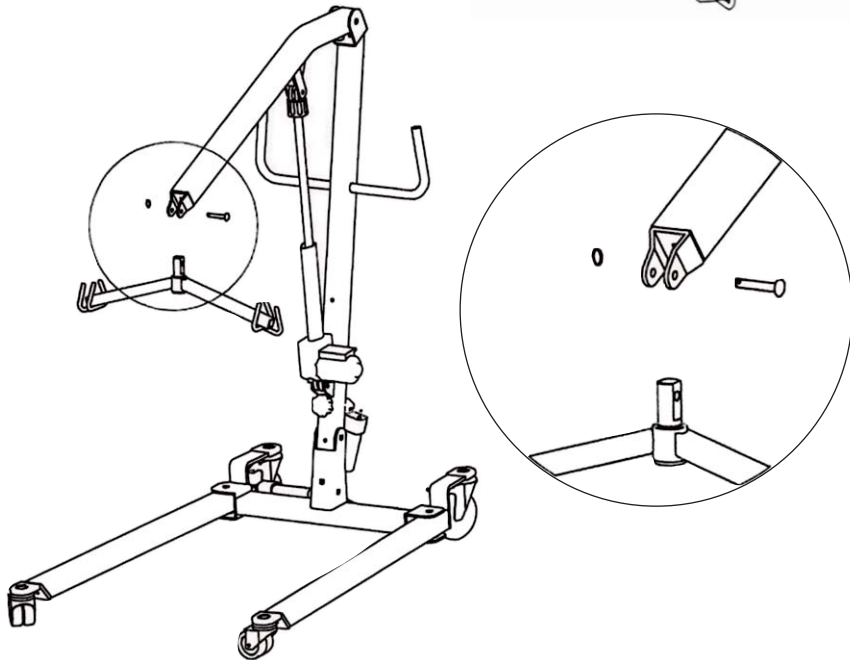
Net Weight: 1kg

DIMENSIONS AND INSTALLATION



INSTALLATION

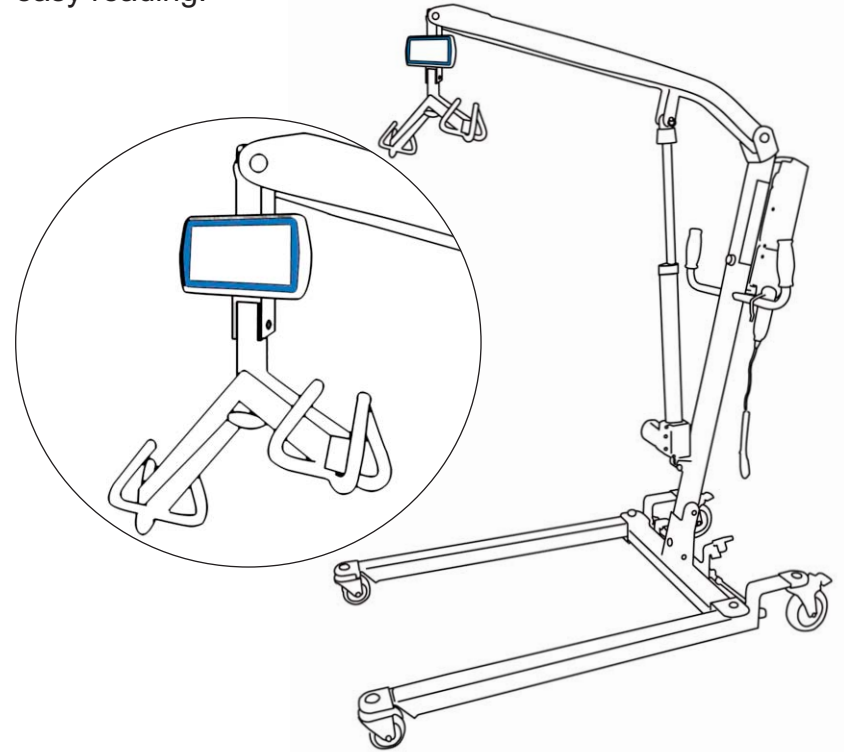
1. Patient lifter boom
 2. Pan head screws and Washers
 3. PSTW10 Lift Scale
 4. Hanger bar
- 



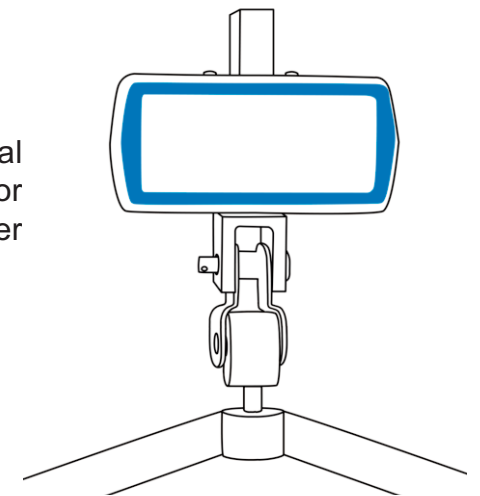
A. Remove the hanger bar from the lifter boom (pictured above).

B. Insert the top plate of the digital scale into the lifter boom. Then secure the scale with the lifter's bolt and the clear washers.

C. Insert the hanger bar onto the bottom of the mounting bracket and secure it with a clevis pin, black washers, and a split ring. The screen of the scale faces the front of the lift for easy reading.






D. Attaching the optional hanger bar adaptor allows for an extra wide type hanger top.



DISPLAY AND KEYS

Scale Keys

Key	Name	Function
	On/Off	Short pressing: Cancel & return to weighing mode Long pressing: Power-on / Power-off
	Tare	Short pressing: Tare in/out; Increase digit or change options Long pressing: Zero; Move digit
	Hold	Short pressing: Lock/unlock; Confirm & next Long pressing: Unit Switch; Input / cancel decimal point













Indicators

LED	Name	Note
STB	Stable	shown when weight is stable
ZERO	Zero	shown when weight is at zero
TARE	Tared	shown when scale is tared
HOLD	Hold	shown when scale is locked
LB	lb	shown when unit is lb
KG	kg	shown when unit is kg
UN	UN	shown when unit is User Unit

Message




Message	Stand for	Note
.....		Detect weight
SETUP	SETUP	User Setup Menu
bAt99	BATtery	Battery life percentage
End	END	Save and exit
oFF	OFF	Power off
ouEr	OVERload	Overloading
Err	ERRor	Invalid operation
ACC	ACCumulate	Accumulate
dEL	DELeTe	Delete data
CLr	CLeaR	Clear all data

Remote Keys



Key	Name	Function
	Zero	Same as short pressing 
	Tare	Same as long pressing 
	Hold	Lock or unlock; confirm and enter next
	Acc.	Accumulate weight
	Del.	Delete last weight Clear all weight together with  Left scroll flashing digit in user input status
	F1	View accumulated weight; input digit
	F2	Unit Switch
	Off	Long press to power off Return to weighing mode
	2nd	2nd function

OPERATIONS





Power On/Off

- ✓ Press  for 1 sec. to power-on scale. Scale perform initialization and power-on test, **88888** shows twice, then max.capacity shows, battery life percentage **bAt99** shows, weight detection **•••••** shows and then auto zero.
- ↪ For information about Auto-Zero, refer to Scale Configuration in Technical Manual.
- ✓ Press  or  for 1 sec to power-off scale. Battery life percentage **bAt99** shows, off message **off** shows, and then cut off power.
- ↪ When the 4 batteries voltage is lower than 3.75V, scale will auto power-off itself. Please replace the dead batteries with new ones.



Zero

- ✓ Press  or  for 1 sec. to zero. **zero** shows.
- ⓘ If load is in motion, or tared, or out of Manual-Zero Range, **Err** shows.
- ↪ For information about Manual-Zero Range, refer to Scale Configuration in Technical Manual.



Tare In/ Out

- ✓ In gross mode, press  or  to tare in. **tARE** shows.
- ⓘ If load is in motion, or negative, or out of Tare Range, **Err** shows.
- ✓ In net mode, by pressing  or  to tare out. **tARE** disappears.



Lock/ Unlock

- ✓ Press  to lock the screen; **HOLD** shows.
- ✓ Press  to unlock the screen; **HOLD** disappears.






Accumulate

- ✓ Press to  accumulate current weight.
-  **ACC** shows, indicating weight is accumulated. Scale uses displayed weight, so gross or net weight is added into the same accumulator.
- ⓘ If load is in motion, or negative, or does not return to zero before, **Err** shows.







Enter User Setup

- ✓ Press  and  together to enter User Setup menu. **SETUP** will show.









Auto-Off Timing

- ✓ Press  or  to enter Auto-Off timing menu. **off--** shows.
- ✓ Press  or  or  to change timing value.
- ↗ Auto off timing can be set to **0** (disabled), **5** (5 mins), **10** (10 mins), **15** (15 mins), **30** (30 mins), and **60** (60 mins).
AUTO-OFF IS DISABLED BY DEFAULT.
- ↗ Enabling auto-off maximizes scale's battery life by starting a countdown timer when there is no action or load has stabilized.




Backlight Brightness

- ✓ Press  or  to enter Backlight Brightness. **br -** shows.
- ✓ Press  or  or  to change **off** Brightness value.
- ↗ Backlight Brightness can be set to: (disabled), **1** (dim), **2** (normal), **3** (bright).
-  Dim backlight brightness saves battery consumption dramatically.



Idle Mode Timing

- ✓ Press  or  to enter Idle Mode Timing; **idl--** will show.
- ✓ Press  or  or  to changing timing values.
- ↗ Idle mode timing can be set to **0** (disabled), **5** (5 sec), **10** (10 sec), **15** (15 sec), **30** (30 sec), and **60** (60 sec).
Idle timing mode is 30 seconds by default.
-  Scale automatically enters idle mode when there is no action or the load is stable to conserve battery power. Any key press or movement in the load will cause the scale to wake up from idle mode.
- ✓ Press  or  to exit the User Setup menu.



Clear All Weight

- ✓ Press  first and then press  to clear all accumulated weight.
-  **Clr** shows, indicating all weight is cleared.





Delete Last Weight

- ✓ Press  to delete last accumulated weight.
-  **dEL** shows, indicating last accumulated weight is deleted. Delete function only deletes the last weight.
- ⓘ If last accumulated weight has been deleted, **Err** shows.

Unit Switch


- ✓ Press  to switch unit in between kg, lb, and User Unit.
-  When unit is kg, **KG** shows. When unit is lb, **LB** shows. When unit is User unit, **UN** shows.

View

- ✓ Press  to enter View mode.
-  Display flashes accumulated weight.
- ✓ Press  to view high 5-digit or low 5-digit.
- ✓ Press  to exit View mode.

TROUBLE SHOOTING & BATTERY MAINTENANCE

If the following solutions do not solve your issue, please contact your local representative.

Symptom	Possible Cause	Suggested Solution
Not power-on after  is pressed	Discharged/ defective battery	Check battery and replace
	Defective on/off key	Press firmly and keep pressing for 2 seconds
	Defective power cable	Open front panel, check power cable
Backlight flashes	Defective mainboard	Contact dealership
	Discharged battery	Replace battery
No action taken after key pressed	Scale is disturbed	Re-plug power cable
	Defective key	Contact dealership
Weight reading not stable	Load in motion	Keep load stable
	Weak Anit-motor	Change anti-motion level
	Damped loadcell or mainboard	Dry loadcell or mainboard
	Defective mainboard	Contact dealership

Weight reading not zero when loading	Discharged battery	Replace battery
	Load-cell stressed too long	Hang scale in storage
	Loadcell drifts	Contact dealership
Large error in weight reading	Scale not zeroed before applying load	Manual Zero scale before loading
	Wrong unit	Switch to correct unit
	Scale requires calibration	Calibrate scale

BATTERY MAINTENANCE

* To maximize battery life, please note the following battery maintenance guide.

This scale is powered by 4 AA 1.5V batteries.

Battery house can be opened by screwing off 2 screws.

Depending on backlight brightness and idle mode setting, normally, battery works over 65 hours.

In order to conserve battery life, enable Auto-Off and Idle Mode, dim backlight brightness.

To obtain maximum service life, battery should be stored between -20°C (-4°F) and +50°C (122°F). Stored batteries should be recharged or replace every three months.

When 4 batteries voltage is lower than 3.75V, scale will auto power-off itself. Please replace the dead batteries with new ones.

LIMITED WARRANTY

The warranty below has been drafted to comply with Federal Law applicable to products manufactured after July 4, 1975. This warranty is extended only to the original purchaser/consumer (or dealer non-consumer who does not buy for resale).

Tuffcare® warrants that its patient lift will be free from defective workmanship and materials for a period of three (3) years following the date of original manufacture with the following exceptions: All welds are warranted for the life of the lift. **Electronics on the patient lift and scales** are warranted for one (1) year. The warranty period commences on the original manufacture date. If within such warranty period any such product proven to Tuffcare® satisfaction to be defective, such product will be repaired or replaced at Tuffcare® option.

Tuffcare® sole obligation and your exclusive remedy under this warranty shall be limited to such repair and/or replacement. This warranty does not include any labor charges incurred in replacement parts installation. Freight charges to the factory are at the expense of the consumer or seller. Return freight charges will be prepaid by Tuffcare®. For warranty service, please contact the authorized dealer from whom you purchased your Tuffcare® products. In the event that you do not receive satisfactory warranty service, please write directly to: Tuffcare®: 4977 La Palma Ave, Anaheim, California, 92807.

DO NOT RETURN PRODUCTS WITHOUT PRIOR AUTHORIZATION.

LIMITATIONS AND EXCLUSIONS: The foregoing warranty shall not apply to products subjected to negligence, abuse, misuse, improper operation, improper maintenance, improper storage or damages beyond Tuffcare® control. The evaluation will be solely determined by Tuffcare®. The warranty shall not apply to problems arising from normal wear, or failure to follow instructions, or if parts are not manufactured by Tuffcare®, or do not comply with original equipment specifications that are added to Tuffcare® product.

THE FOREGOING WARRANTY IS EXCLUSIVE AND IN LIEU OF ALL OTHER WARRANTIES, INCLUDING BUT NOT LIMITED TO THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE AND SHALL NOT EXTEND BEYOND THE DURATION OF THE EXPRESS WARRANTY PROVIDED HEREIN. TUFFCARE® SHALL NOT BE LIABLE FOR ANY CONSEQUENTIAL OR INCIDENTAL DAMAGES WHATSOEVER.

This warranty gives you specific rights and you may also have other legal rights which vary from state to state. Some states do not allow the exclusion or limitations of incidental or consequential damage, or limitation on how long an implied warranty