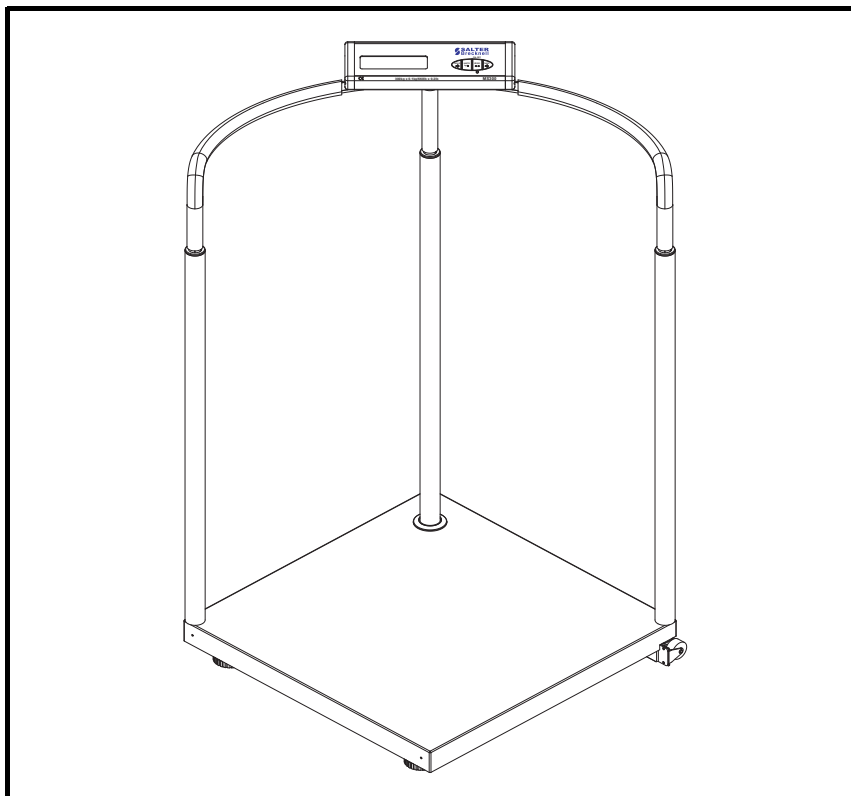


MS300 Platform Scale



User Instructions

ENGLISH

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Declaration of Conformity

Manufacturer	Salter Brecknell
Type	MS300

corresponds to the requirements of the following EC directives:

EMC Directive	EMC 89/336/EEC
Low Voltage Directive	LVD 73/23/EEC

The applicable harmonized standards are:	EN60950, EN50081-1, EN50082-1
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A copy of the original signed declaration for this instrument is available from:

Salter Brecknell Weighing, P.O. Box 9533, Smethwick, West Midlands, B66 2TE

Electromagnetic Compatibility Statement for North America

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a residential installation. This equipment generates, uses and can radiate radio frequency energy and if not installed and used in accordance with the instructions manual, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one of the following measures:

Reorient or relocate the receiving antenna.

Increase the separation between the equipment and receiver.

Connect the equipment to an outlet on a circuit different from that to which the receiver is connected.

Consult the dealer or an experienced radio / TV technician for help.

Safety

Warnings

Safe installation



Take care when lifting and transporting heavy objects.

Do not overload the machine. Take care not to exceed the weighing capacity of the machine.

Pluggable equipment must be installed near an easily accessible socket outlet. Permanently connected equipment must have a readily accessible disconnect device incorporated in the fixed wiring.

For your protection all mains (110V or 230V) equipment used out of doors or in wet or damp conditions should be supplied from a correctly fused source and protected by an approved RCD to BS7071 or BS7288 or BS4293.

The mains lead must be connected to a supply outlet with a **protective earth contact**. The electrical supply at the socket outlet must provide overcurrent protection of an appropriate rating.

IF IN DOUBT SEEK ADVICE FROM A QUALIFIED ELECTRICIAN.

Safe use



To avoid the possibility of electric shock or damage to the machine, always switch off the machine and isolate from the power supply before carrying out any routine maintenance.

Cleaning the machine

CAUTION: Harsh abrasives, solvents, scouring cleaners and alkaline cleaning solutions, such as washing soda, should not be used especially on the display windows. Under no circumstances should you attempt to wipe the inside of the machine.

The outside of standard products may be wiped down with a clean cloth moistened with water containing a small amount of washing up liquid or disinfectant

EMC compliance

The following warning may be applicable to your machine.



WARNING:This is a class A product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.

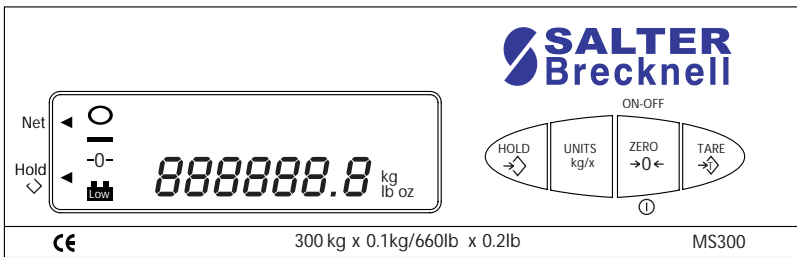
1 About your machine

1.1 Description

The MS 300 is a self contained portable platform scale with a remote display. The platform is constructed of mild steel; it has four adjustable feet for levelling. For best results, always install the platform on a hard, flat, level surface.

A stainless steel platform version is available

1.2 Display



	Stable	net	weight
	Minus		Hold weight
	Centre of zero	lb	weighing mode
	Low battery	kg	weighing mode

1.3 Key functions



Zero/ON/OFF key. Switches the scale on or off.
Zero the value.



Tare key. Applies a tare value



Units key

Selects weighing units



Hold key

Retains average weight display.

1.4 Error codes

Err Overload

ErrL Below zero

ErrE E E prom error




Low battery warning

1.5 Specification

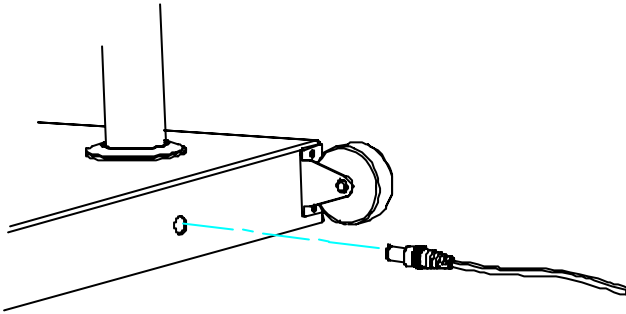
Capacity/resolution	300kg x 0.1kg 660lb x 0.2lb
Display	Height 25mm 7 segment LCD
Operating temperature	5° C to 35° C
Weight	25kg
Dimensions	
Platform	550mm x 550mm x 940mm
Display head	270mm x 90mm x 45mm
Power supply	6 x 1.2V metal hydride rechargeable batteries
Recharge adaptor	120V AC/15V DC

1.6 Power supply

The indicator head contains six metal hydride re-chargeable batteries. The low battery indicator  is displayed when the battery power is insufficient to power the scale.

Recharging the batteries

Insert the AC re-charger adapter into the socket on the base to recharge the batteries.



Recharging time is approximately 14 hours.

Fully charged batteries should give approximately eight hours of continuous use.

CAUTION: Always connect the AC adaptor to the indicator head before connecting to the mains power supply.

Disconnect from the mains power supply before disconnecting the adaptor from the indicator head.


AC adaptor


The Input 120VAC Output 15VDC 300mA recharge adaptor supplied with the MS300 provided




2 Weighing

For best results, always weigh on a hard flat and level surface. The platform has four adjustable feet for leveling.

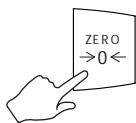
Press  to switch on the scale. The display will show *8888* then go to weighing mode. If the display does not show

0.0 or *0* press 

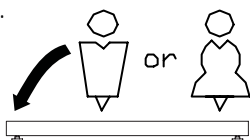
Zero Full Capacity 2%

To switch off the scale, press and hold 

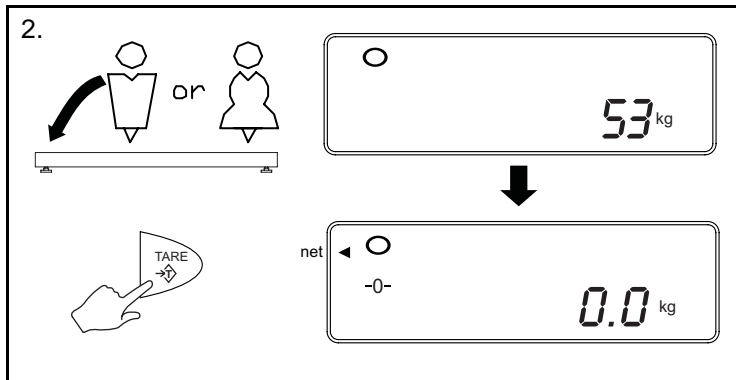
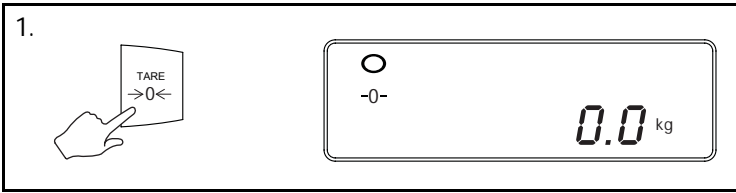
1. If necessary, zero the scale.




2.



Using tares

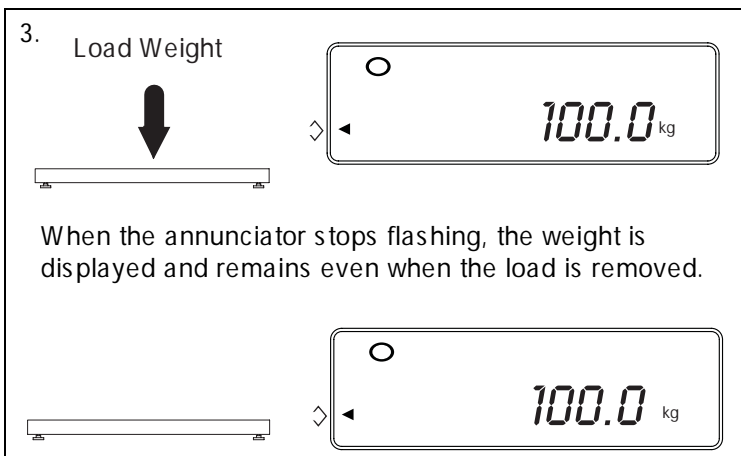
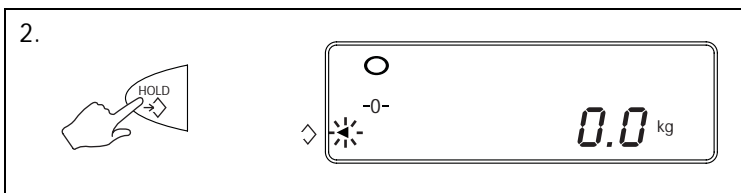
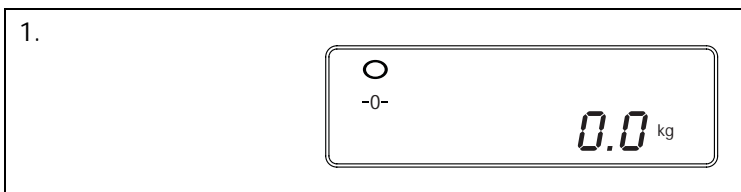


Weighing units

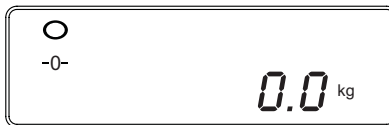
Press  to toggle between kg, lb, oz.

2.1 Hold function

This function enables you to weigh oversized objects that may obscure the display. The system calculates an average weight reading and displays this weight value. This makes the hold function ideal for weighing individuals that may be moving around on the platform.



4. To cancel the hold:



3 Setup mode

3.1 Function setup

In setup mode you can configure the following functions:

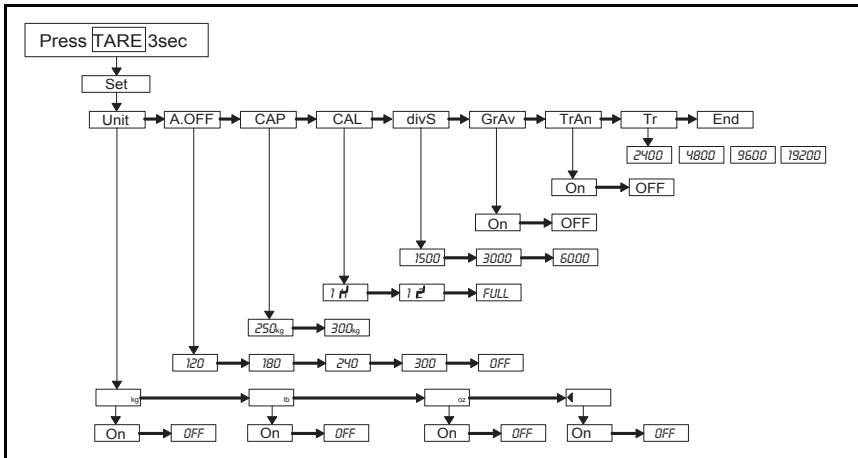
- weighing unit
- auto shut-off (Battery mode)
- calibration weight

Auto shut-off switches off the scale if no activity is sensed during the period set. The time values are in seconds. To disable auto shut-off, select *OFF*.

Calibration weight allows you to select full load, 0.5 load or 0.25 load of the machine capacity for calibration. The table lists the actual weight value you should use.





Weighing units	Full load	1/2 load	1/4 load
kg	200 kg	100 kg	50 kg
lb	500 lb	200 lb	100 lb

Calibration weights





Setup menu

Navigating the setup menu

1. Press and hold  till display shows "Set".
(a approximately three seconds).
2. Release,  display shows "Unit".
3. Press  to move across to the option or value you require.
4. Press  to select an option and save.

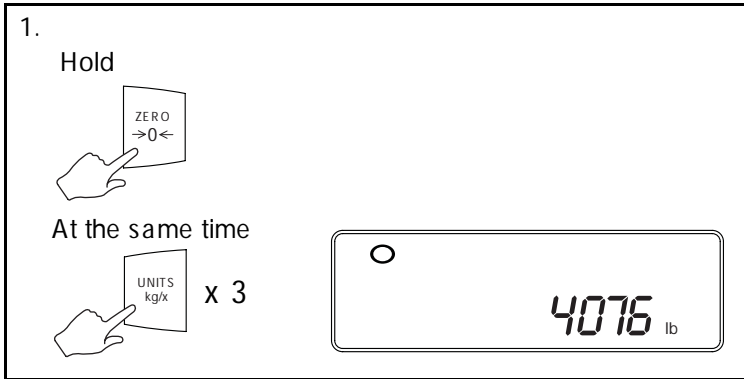
To exit the setup menu and save your changes:

Press  unit you see End.

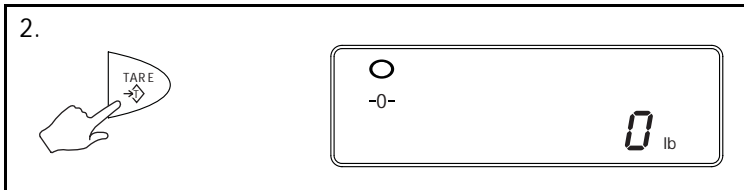
Press  to save your changes and return to weighing mode.

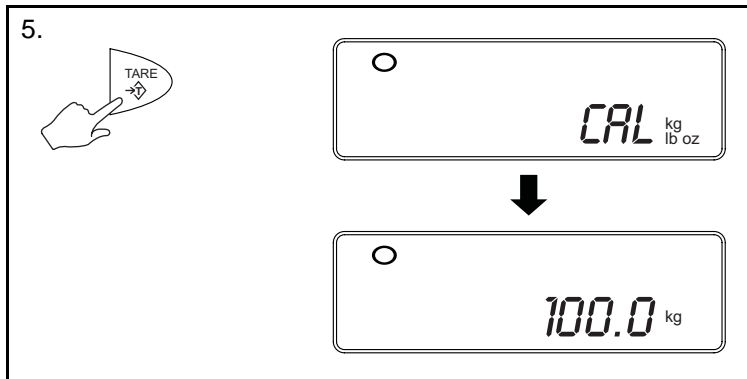
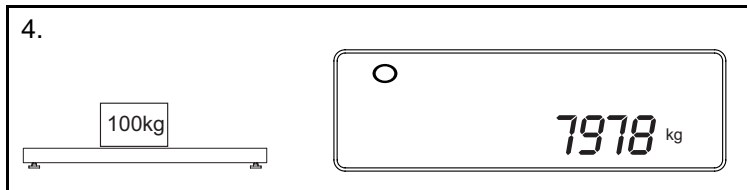
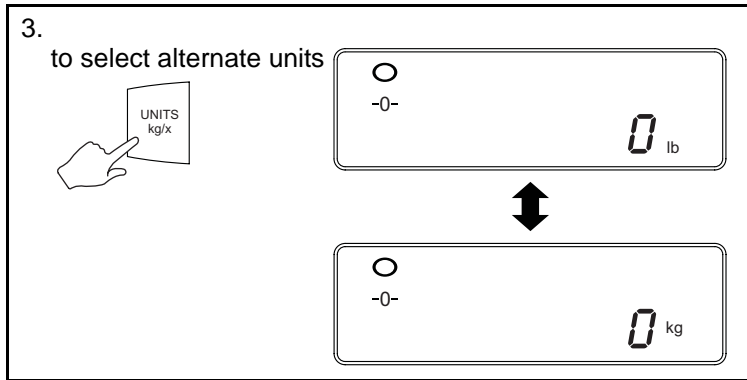
3.2 Calibration

1. In steep mode, select the "CAL" option and then select whether you want to use $1/2$, full or $1/4$ load for calibration (See Calibration weights on page 11). The example shown in these instructions uses kg weight unit and $1/2$ load. Save your selection and then switch off the scale.



Display shows zero count value.





4.0 RS-232 Communications protocol

Type : EIA-RS -232C

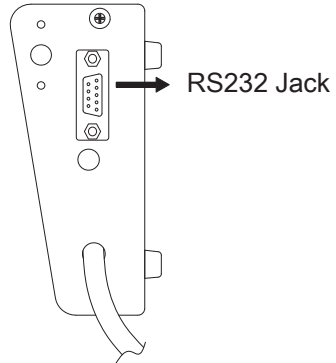
RS-232 Half-duplex Asynchronous Transmission interface

Baud rate : 2400/4800/9600/19200

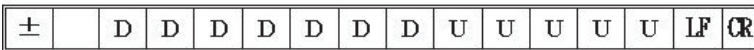
Data Bits : 8

Parity : N

Stop bits : 1



Data Transmission Format :



D : Weight

U: Weight unit

Format of Date Communication : 16 Byte, blank communication < 20H>
 <STX> <Status><+/-><D><D><D><D><D><D><D><D><U><U><U><U><U>

Description of Date Communication :

1. STX : Start of Transmission = 02H
2. +/-: +=(2BH) = Positive Weight, -=(2DH) = Negate Weight
3. DDDDDDD : Value of Weight, 7ASCII Code
4. UUUUU : Weight Units (kg , lb , oz , St) , 5 ASCII Code
5. LF : 07
6. CR : 0D
7. EXT : Stop of Transmission = 03H

For instance :

Err : Transmit 16 Byte <Status>="<STX><X>,<E><r><r><20H><20H>.... <ETX>
 100.02kg :
 <STX><P><+><+><20H><1><0><0><.><2><20H><20H><20H><K><g><ETX>

5.0 Assembly Procedure for the MS300

1. Screw the four adjustable feet into the holes located on the bottom of the platform.
See figure 1.

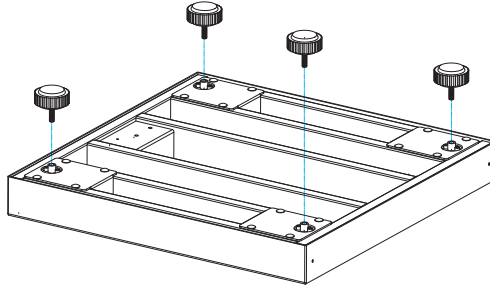


Figure 1

2. Screw two vertical stainless steel support rods into the platform opposite each other. See figure 2.

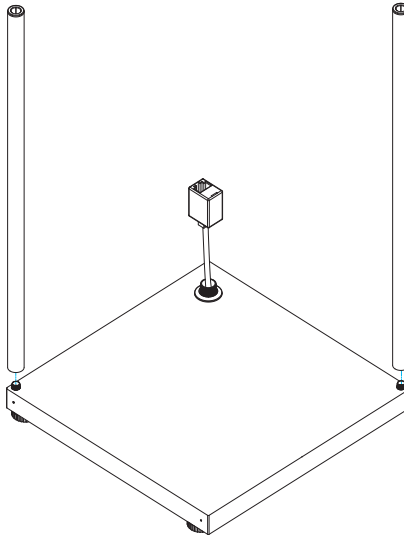


Figure 2

3. Insert the male plug from the indicator into the remaining stainless steel support rod making sure the male plug exits out the opposite end of the support rod
See figure 3.

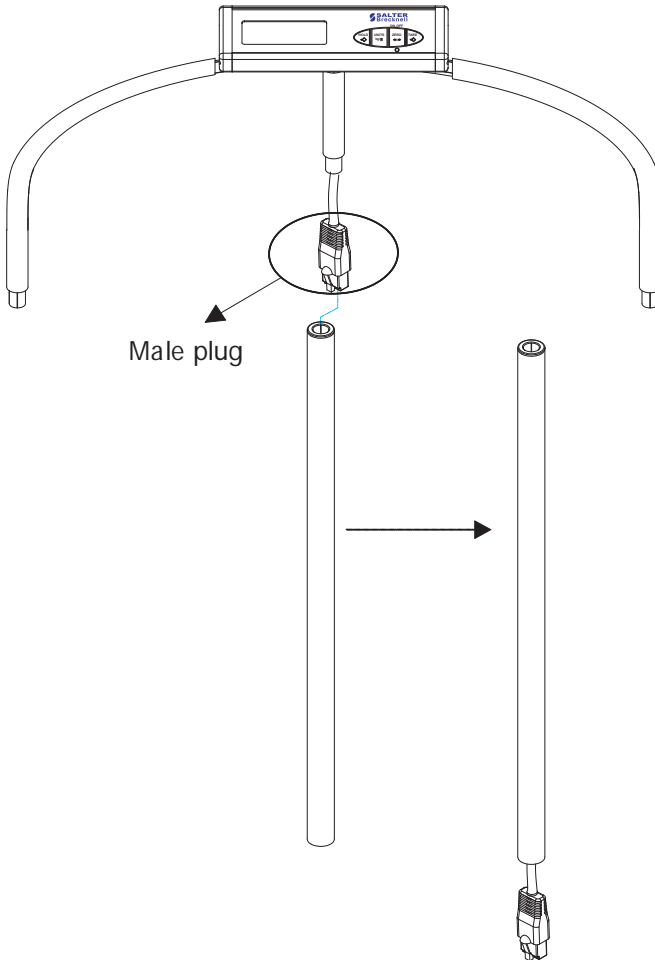


Figure 3

4. Connect the male plug with the female connector. See figure 4. □
5. Insert the last vertical stainless steel support rod into the center □ mounting hole on the platform. See figure 4. □

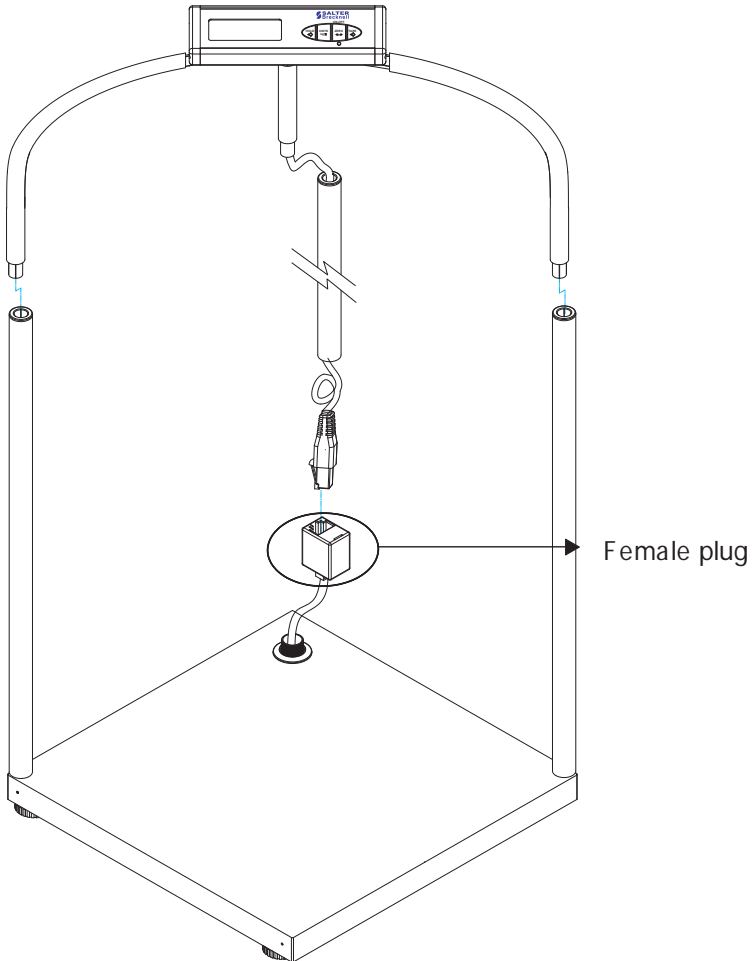


Figure 4

6. With the horizontal handrail positioned above the three support rods, insert the middle post of the hand rail into the middle support rod. □
See figure 4 and 5. □
7. Insert the ends of the handrail into outer support posts. See figure 5. □
Assembly is now complete.

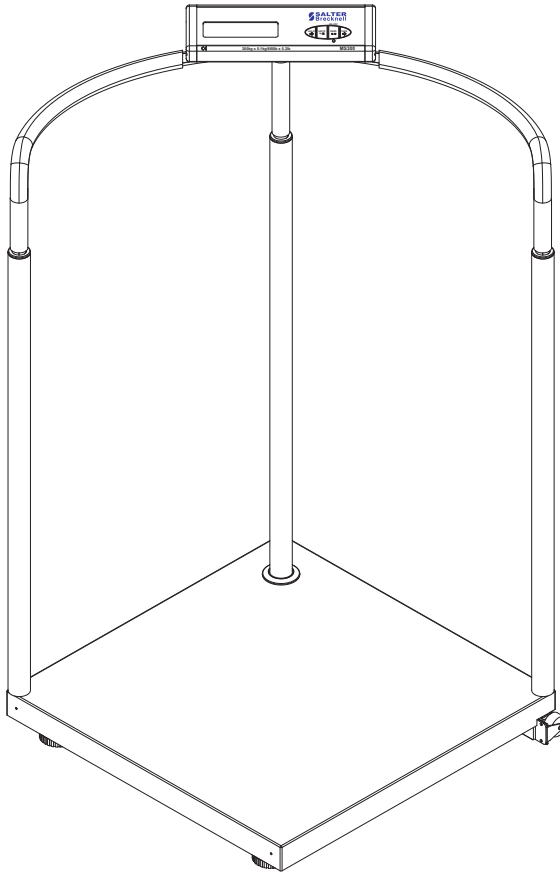


Figure 5

5.1 Moving the Scale □

1. Tilt the scale back onto the wheels far enough for the four □ adjustable feet to be suspended. See figure 6. □
2. Pull the scale to the desired location. □
3. Tilt the scale back up onto its adjustable feet. □

Note : Only use the wheels for moving the scale short distances.

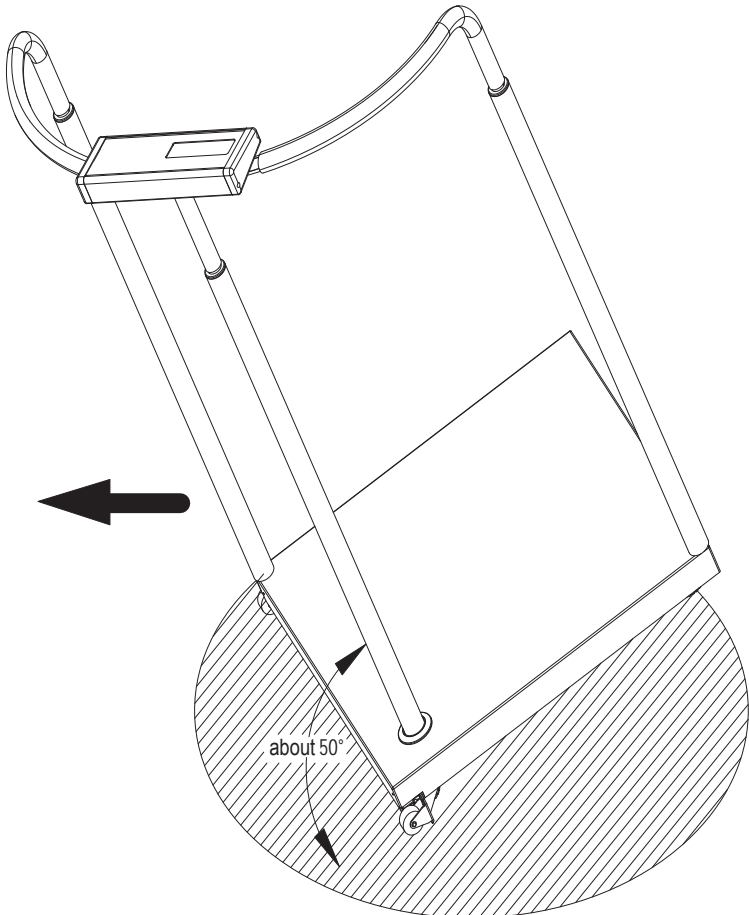
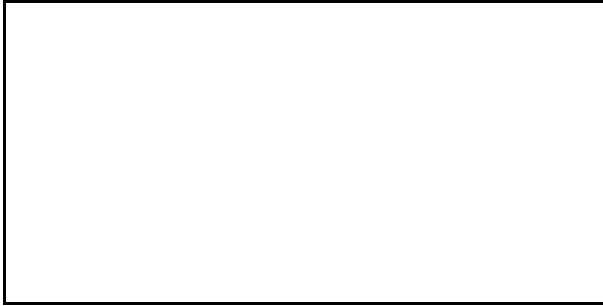


Figure 6



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