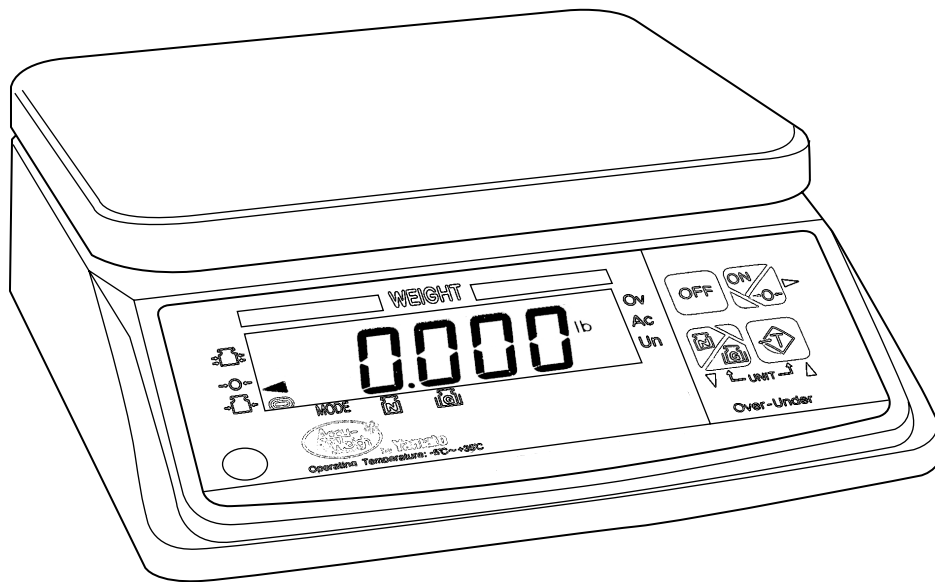


PPC-101

Operation Manual



Yamato

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SAFETY INSTRUCTIONS

Before using the scale, carefully read, understand, and follow the "Safety Instructions" described in this manual. Observe the advice given in the "Operations" section to ensure proper operation. Keep this operation manual handy for reference.

- 1) This scale is **not** an explosion-proof model. Do not use the scale in an atmosphere containing flammable gases or explosive fumes. A fire or an explosion can result.
- 2) Do not operate the scale if there is smoke or a burned smell coming from the scale. Remove the batteries or unplug the AC adaptor immediately. After making sure that there is no danger, consult your dealer. **Never try to repair the scale by yourself.**
- 3) Never step on or sit on the scale. Not only will the scale be damaged, but you may also be injured.
- 4) Place the item to be weighed in the center of the platform. Items placed on the edge of the platform may fall off and cause injury.
- 5) When weighing a heavy, large or unbalanced item, make sure the item is stable on the platform, otherwise, an accident may occur.
- 6) When carrying or moving the scale, be sure to hold it by the bottom of the base with both hands. If you hold it by the platform, the platform or the platform support may become detached causing the scale to fall. This will damage the scale. The platform is designed for easy removal and clean-up.
- 7) Do not insert your finger into the gap or holes in the scale. You may be injured.
- 8) The PPC-101 uses a liquid crystal display. If the LCD breaks and the liquid leaks from the LCD, do not touch it with your fingers. The liquid is toxic if ingested. Be especially careful around small children.

To prevent damage to the scale

- 1) Do not push the indicator or keys with sharp objects. They may break or puncture the switch membrane panel.
- 2) Use the specified power supply and choose a suitable environment. If you do not, the weight readings may be inaccurate and the scale may be damaged.
- 3) As the scale is a sensitive weighing instrument, avoid physical shocks. If you drop something on the scale, step on the platform, or drop it, the scale may be damaged and lose accuracy.
- 4) If the scale becomes dirty, wipe it with a soft cloth. For stubborn stains, apply a little neutral detergent and then wipe the scale with a dry cloth. Do not use thinner, benzene, hot water, or chemical agents, all of which can cause deformation, discoloration, or deterioration of the scale.
- 5) Never remove the case. The fine adjustment section may be damaged and you may be injured by sharp edges on the internal parts.
- 6) Do not place the scale upside down except when replacing the batteries.
- 7) When the low battery indicator appears, replace all six of the batteries. When installing the batteries, install them according to the polarity markings in the case (+, -). If the scale will not be used for a long period, remove the batteries.

To keep the scale working efficiently

- 1) Place the scale on a flat stable surface that will support the scale and the load.
- 2) Do not place the scale in an area exposed to direct sunlight or to wind currents from an air conditioner, otherwise, the weights will not be accurate.
- 3) Do not place the scale near machines that create vibrations or electromagnetic disturbance, such as microwave ovens, portable phones, or large motors. This will affect the accuracy.
- 4) The operating temperature range is from -10°C to +40°C (14°F to 104°F). Do not subject the scale to sudden temperature changes; allow the scale to adjust to the new temperature before use.
- 5) This scale is not waterproof or dustproof. Do not expose the scale to splashing water. Do not install the scale in an extremely humid or dusty environment.
- 6) If the scale is sealed, do not break the seal. If you break the seal, the scale will not be considered legal for trade. In this case, contact your dealer.
- 7) Do not disassemble or modify the scale, you will void the warranty. Modified scales will not be legal for trade.

NAME AND FUNCTION OF PARTS

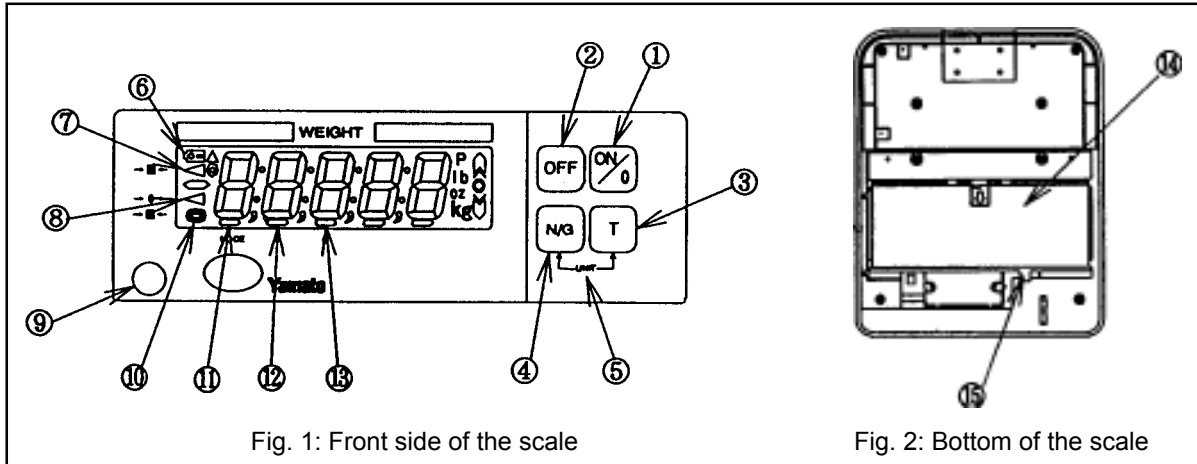


Fig. 1: Front side of the scale

Fig. 2: Bottom of the scale

- | | | |
|-----|----------------------------|--|
| 1) | ON/ZERO Key | Turns the power on, and zeroes the display. |
| 2) | OFF Key | Turns the power off. |
| 3) | TARE Key | Tares off the weight on the scale platform. |
| 4) | NET / GROSS Key | Toggles between gross and net weights. |
| 5) | Unit selection | Press both keys simultaneously to toggle between pound and kilogram indications. |
| 6) | LOW BATTERY Indicator | Time to replace batteries. |
| 7) | CENTER ZERO Indicator | Indicates display is zeroed. |
| 8) | TARE Indicator | Indicates tare function is being used. |
| 9) | Spirit level device | Used to level scale. |
| 10) | STABLE Indicator | Indicates that weight on the scale is stabilized. |
| 11) | MODE Indicator | Indicates scale is in setup mode and weighing is not allowed. |
| 12) | NET WEIGHT Indicator | Shows scale is in net mode. |
| 13) | GROSS WEIGHT Indicator | Shows scale is in gross mode. |
| 14) | Battery Cover | |
| 15) | Outlet of AC adaptor cable | |

SPECIFICATIONS

Weighing system:	Strain-gauge load cell
Platform:	220 X 190 (mm), stainless steel
Weight display:	Single face display
Type:	7 segments LCD
Character size, etc.:	12 (W) X 23 (H) mm, 4 digits
Optional equipment:	AC adaptor, Batteries, Analog limit meter
Power supply:	9V DC (The scale requires six "D" size batteries.) or AC input (When using the AC adaptor)
Consumption:	0.2 W (Max.)
Battery life:	1000 hours of continuous use (When using alkaline batteries)
Operating temperature:	-10°C to 40°C (14°F to 104°F)

DIRECTIONS FOR USE

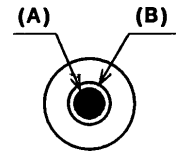
Installing batteries or AC adaptor

Remove the stainless steel platform. Gently and carefully turn the scale upside down. Gently press on the hollow in the battery cover, with your finger and slide the cover towards the front of the scale. After the battery cover is unlocked, lift and remove the cover. Install the batteries according to the polarity markings. If you reverse the polarities of the batteries, the scale will be damaged. Replace the battery cover by aligning the tabs of the cover with the case and sliding the cover closed.


Use only the AC adaptor specified for use with the scale. Using the wrong adaptor can damage the scale. Remove battery cover. Remove batteries, if installed. Insert the adaptor plug securely into the jack on the side of the battery case. Lead the wire out through the hole in the case. Replace the battery cover.

Leveling the Scale


Place the scale on a flat and leveled surface when it is operated. If the scale is not leveled, the weights may not be accurate. You can check whether the scale is leveled by using a bubble level device positioned on the lower left of the front surface of the scale.




Turning the scale on and off

Confirm that nothing is on the platform, press the  key. The display will briefly flash all the segments of the digits (all eights) and all indicators will flash. After approx. 5 seconds, the scale will then automatically set to zero.




Press the  key. The display will go off. Under battery operation, the power will be shut off automatically (AutoOff function) after about 15 minutes of non-use, even if you don't press the OFF key.

Check the battery level



Turn the scale on and push the  key while the display is flashing. The remaining battery life will be displayed. The more "0" you see, the more the life there is left in the batteries. After showing the remaining life in the batteries, the scale will go to weighing mode.











Zero the display

When turning on the power, the scale will zero automatically. If a value is displayed when the platform is empty, push the  key to zero the display. The permissible zeroing range after turning on the power is approximately $\pm 1.9\%$ of the scale capacity.

Switching between LB and KG

To switch between LB and KG, press and hold the  key and press the  key.

Setting Over/Under Indicator


- 1) Press and hold the  key and push the  key. (Yellow Corners)
 - 2) Press the  key to select the digit you want to change. The underscore will advance to the right.
 - 3) Press the up and down arrows to select the desired value.
 - 4) Repeat steps 2 and 3 until all digits are set.
 - 5) Press and hold the  key and push the  key (Yellow Corners). This sets the lower limit and moves to upper limit.
 - 6) Press the  key to select the digit you want to change.
 - 7) Press the up and down arrows to select the desired value.
 - 8) Repeat steps 6 and 7 until all digits are set.
 - 9) Press and hold the  key and push the  key (Yellow Corners). This sets the upper limit and returns you to weighing mode.
- ** See page 8 for optional Analog Meter operation.





Weighing

GROSS Weighing





With no load on the scale, the display reading zero, and the CENTER ZERO and STABLE indicators lit, place the item(s) to be weighed on the scale. The weight displayed will be GROSS weight.

NET Weighing (with Semi-Automatic Tare)

With no load on the scale and the CENTER ZERO and STABLE indicators lit, place an empty container on the scale and press the  key. The weight of the empty container will be deducted automatically and the display will read zero.








Place the item(s) to be weighed in the container. The NET WEIGHT Indicator  will light and the weight displayed will be the NET weight. To display the GROSS weight, press the  key. The GROSS WEIGHT Indicator will light and the weight displayed will be the GROSS weight. Press the  key again to return to the NET weight. To return to GROSS weighing mode, remove all items from the scale and press the  key.

Batching










With no load on the scale and the CENTER ZERO and STABLE indicators lit, place an empty container on the scale and press the  key. The weight of the empty container will be deducted automatically and the display will read zero. Place the first item in the container until the desired weight is reached. Press the  key. The display will return to zero and the TARE indicator will light. Place the second item in the container until the desired weight is reached. Press the  key again. Repeat the steps with any additional items. When the weighing of all items is complete, remove everything from the platform and press the  key. The display will return to zero and the CENTER ZERO and STABLE indicators will light. Remember that you can only tare off items up to the capacity of the scale.

Optional Analog Meter

Calibrating Meter










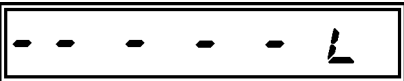


- 1) Press and hold  key 2-3 seconds. Display will read "ADJ" for adjust.
- 2) Use the  and  key to move the indicator to the bottom of the Under range.
- 3) Press the  key. Indicator will move to the Over range.
- 4) Use the  and  key to move the indicator to the top of the Over range.
- 5) Press the  key to lock in calibration and to return to weighing mode.

Setting Analog Meter

- 1) Press and hold the  key for 2-3 seconds. Display will change.
- 2) Press the  key to select the digit you want to set. Underscore will move to the right.
- 3) Press the  and  keys to set the desired value.
- 4) Repeat steps 2 and 3 until the entire number is set.
- 5) Press the  key to set the Lower limit and move to the Upper limit.
- 6) Press the  key to select the digit you want to set.
- 7) Press the  and  keys to set the desired value.
- 8) Repeat steps 6 and 7 until the entire number is set.
- 9) Press the  key to set the Upper limit and return to the weighing mode.
This sets Memory A. To set B and C, start by holding the corresponding key in step 1.

WARNING AND ERROR INDICATION

The scale can check various functions automatically by itself. When a problem is detected, the following messages will be displayed. If you take the steps described below but the problem is not fixed, the scale needs to be serviced by a qualified scale technician.

<p>1) The batteries are running low. When the batteries are running low, this indicator will come on. Replace all of the batteries with new ones.</p>	
<p>2) The batteries are low. When the batteries are too low, this indicator will be displayed and you cannot use the scale until you replace the batteries.</p>	
<p>3) The weight out of range. If the item is 6 or more divisions heavier than the scale's capacity this message will be displayed.</p> <p>When the weighed value is 6 or more divisions (increments) below zero, this message will be displayed. It is usually displayed when the platform is removed.</p>	 
<p>4) Initial error on startup When the initial weight is heavier than the permissible zeroing range and the  key is pressed, this message will be displayed. Remove whatever is on the platform and press the  key again.</p> <p>When the initial weight is lighter than the permissive zeroing range and the  key is pressed, this message will be displayed. Install the platform or remove any objects under the platform, and press the  key again.</p>	 
<p>5) The weighing sensor error When the weight detecting section has a problem, this message will be displayed. Turn off the power. Then turn the power on again.</p>	
<p>6) The electronic circuitry error When the electronic circuit has a problem, this message may be displayed. Turn off the power. Then turn the power on again.</p>	
<p>7) The electromagnetic disturbance error This Indicator is occasionally displayed due to strong static electricity and/or electro-magnetic disturbance, but it is not a failure. Turn off the power. Then turn the power on again.</p>	