



HIGH-PRECISION ELECTRONIC CHARGING SCALE

TA101FA/TA101FB Instruction Manual



Thank you for purchasing the TASCO High-Precision Electronic Charging Scale. This instruction manual describes matters to be handled with care and how to handle the product so that the product can be used safely. Read this instruction manual thoroughly, understand it sufficiently and use the product safely. After reading, be sure to keep the manual handy for quick reference at any time.



ICHINEN **TASCO** CO.,LTD.

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Observe without fail

(For the sake of safe use)

Notes contained in this manual are classified as [⚠ **WARNING**] and [⚠ **CAUTION**]. Instructions given in the [⚠ **WARNING**] column summarize and refer to those that may result in a death or serious injury if they are neglected. However, instructions classified as [⚠ **CAUTION**] may also lead to serious consequences depending on the circumstance if neglected.




Observe all instructions without fail because they refer to important matters concerning safety.



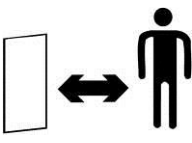
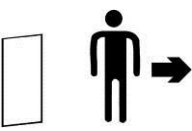




Pictorial symbols

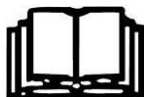
	This pictorial symbol refers to contents “ calling for attention ”.
	This pictorial symbol refers to “ prohibited ” contents never to be done.
	This pictorial symbol refers to contents to be executed by “ compulsion ”.

* Please note that some of the contents described herein may not apply to the product you have purchased.


● General instructions


<p>[⚠ WARNING] Do not operate the product under these circumstances.</p> <ol style="list-style-type: none">1. Having a difficulty in focusing on the task due to a fatigue, illness, influence of a drug or some other reason.2. Under the influence of alcohol.3. During a pregnancy.	
<p>[⚠ WARNING] Wear clothing suitable for the task.</p> <p>Put on safety shoes, a helmet, protective eyeglasses, protective clothes, etc. in performing a task.</p> <p>[If neglected]</p> <p>The operator may suffer an injury due to splashing of the refrigerant.</p>	
<p>[⚠ WARNING] Do not operate the product in a rain or when a thunder is heard.</p> <p>[If neglected]</p> <p>The operator may suffer an electric shock or injury.</p>	

<p>[! WARNING] Take actions against falling, such as wearing a tether, for working at a height.</p> <p>[If neglected] The operator may fall due to a reaction of the product, suffering a serious injury.</p>	
<p>[! WARNING] Pay attention to gases and ventilation for working in a closed area, such as inside a tank.</p> <p>[If neglected] The operator may suffer a suffocation or intoxication.</p>	
<p>[! WARNING] Do not allow other people to be around during a work.</p> <p>[If neglected] People may be hurt.</p>	
<p>[! WARNING] Do not leave the work site while operating.</p> <p>[If neglected] Personnel other than the worker may be injured.</p>	
<p>[! WARNING] Confirm that you are in a safe working environment.</p> <p>[If neglected] You may be injured.</p>	
<p>[! CAUTION] Install the equipment on a horizontal place.</p> <p>[If neglected] It may cause not only operational failure but also an accident of a cylinder falling.</p>	
<p>[! CAUTION] Always inspect the machine before and after a work.</p> <p>Ensure to inspect the machine before and after using it.</p> <p>[If neglected] The operator may suffer an injury due to an accident resulting from poor maintenance or a machine failure.</p>	
<p>[! CAUTION] Prohibition of modification of the machine and a use other than its intended purposes</p> <p>Do not modify the machine or use it for purposes other than those intended.</p> <p>[If neglected] The machine may fail or cause an accident, resulting in an injury of the operator.</p>	







<p>[! CAUTION] Read the instruction manual thoroughly.</p> <p>In order to prevent accidents, read the manual thoroughly and ensure instructions are fully understood before the operation.</p>	
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● **Instructions on electrical installations**



<p>[! WARNING] Install grounding without fail.</p> <p>Ensure to provide grounding securely. When the product is used as a scale, provide the cylinder with grounding.</p> <p>[If neglected] The operator may suffer an electric shock if the machine fails or a ground fault occurs.</p>	
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<p>[! CAUTION] Use the product at the designated voltage and frequency.</p> <p>[If neglected] An accident or injury may be caused due to damaged power source part.</p>	
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● **Instructions on transportation, installation and storage**

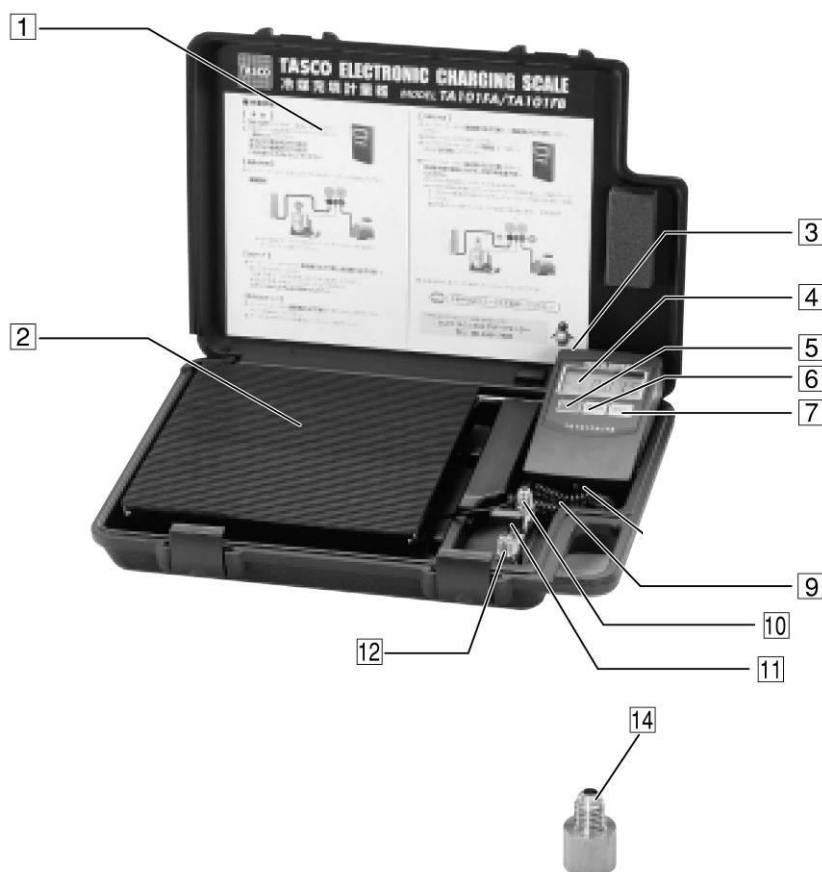
<p>[! WARNING] Keep the machine in a location where children and animals would not be present.</p> <p>[If neglected] Children or animals may suffer an injury by touching or moving the machine.</p>	
<p>[! WARNING] When transferring this equipment, do not pull the charging hose.</p> <p>[If neglected] The charging hose may be damaged causing an accident involving injury.</p>	
<p>[! CAUTION] When the equipment is out of use for a long time, pull off the AC adapter.</p> <p>[If neglected] Stumbling over the cord, etc. may cause injury.</p>	
<p>[! CAUTION] Avoid storing the product at a location abounding in greasy fumes, uneven temperature, humidity, dust, etc.</p> <p>[If neglected] Failure may be caused to the equipment.</p>	
<p>[! CAUTION] Beware of impact or falling.</p> <p>[If neglected] Failure may be caused to the equipment.</p>	
<p>[! CAUTION] Connect the charging hose firmly to its full extent.</p> <p>[If neglected] An accident may be caused thereby.</p>	

● **Instructions on equipment and operation**

<p>[! CAUTION] The cylinder shall be placed on the base plate gently.</p> <p>[If neglected] Failure may be caused to the equipment.</p>	
<p>[! CAUTION] Do not place anything which exceeds the weighing capacity.</p> <p>[If neglected] Failure may be caused to the equipment.</p>	

1. Part name

[Part name and function]



[1] Work procedure panel

[2] Base plate

[3] Battery cap (Back side)

[4] Digital display

[5] [ON/OFF] button

[6] [ZERO] button

[7] [LIGHT] button

[9] Curl cord

[10] IN Port (Only on TA101FB)

[11] Ball valve (Only on TA101FB)

[12] OUT Port (Only on TA101FB)

[14] 1/4" (Female) x 5/16" (Male) adapter (Only on TA101FB)

Operating procedure readily understandable on site.

Platform the cylinder is placed on. (Removable from the case)

Battery to be used is DC9V (006P) square type.

This displays mass.

This switches power ON/OFF.

This sets mass display at "zero".

If pressed while dark, display section is lit (sidelight). Light stays while button is pressed.

As cord extends, indicator can be pulled outside.

Hose from cylinder is connected here.

Distribution of refrigerant is closed or opened here. The flow rate of the refrigerant can be adjusted also by controlled squeezing. (Twisting toward OUT Port to open)

Hose leading to manifold and air conditioner is connected here.

Use this by installing on [10] or [12] port while performing R410A work, etc.

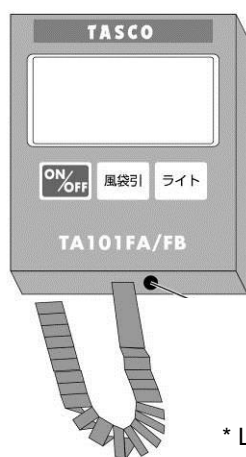
2. Product specifications [LED sidelight attached]

Item no.	TA101FA	TA101FB
Resolution/filling precision	5 g	
Weighing capacity	50 kg (applicable to 20 kg cylinders)	
Platform size	230(L) × 230(W) (mm)	
Power supply	Either of DC9V (006P battery)	
Operating temperature	+5→+40°C	
IN port	----	1/4 Flare (5/16 Flare adapter attached)
OUT port	----	1/4 Flare (5/16 Flare adapter attached)
Outer dimensions/Mass	395(L) × 285(W) × 65(D) (mm)• 3.9 kg (TA101FB)	
Attachments	----	R-410A adapter × 2
	DC9V (006P) square type battery	

3. Usage

[Setting]

- (1) Set DC9V battery (square type battery) or AC adapter (sold separately).




DC9V battery holder



The battery holder is located at the backside of the indicator.

Remove the cap and install the battery with ± conformed.

* Low battery

When the remaining battery level becomes low, the displayed value may become instable or a wrong value may be displayed. As soon as the indicator displays  mark, replace the battery with a new one.


②



Place gently.

1. Switch ON the power.

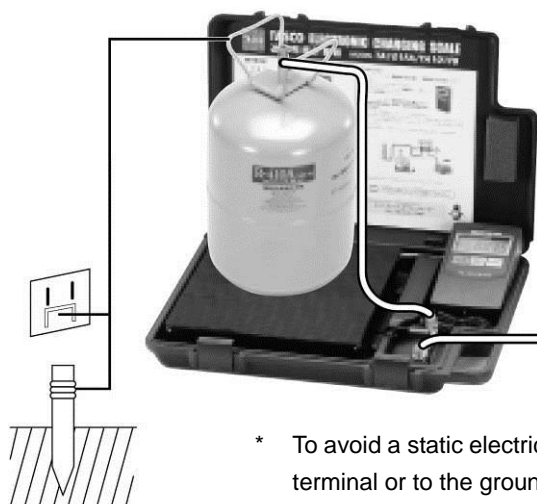


When the  button on the indicator is pressed, the digital screen is displayed. Press it again and the power will be switched OFF.

2. Place the cylinder on the base plate gently.



Placing the cylinder wildly may cause the load cell sensor located below the base plate to be damaged creating risk of failure.



3. Connect the hoses from the cylinder and the manifold with the port having attached valves respectively.
 - * In case of TA101FA, connect the cylinder directly with the manifold.

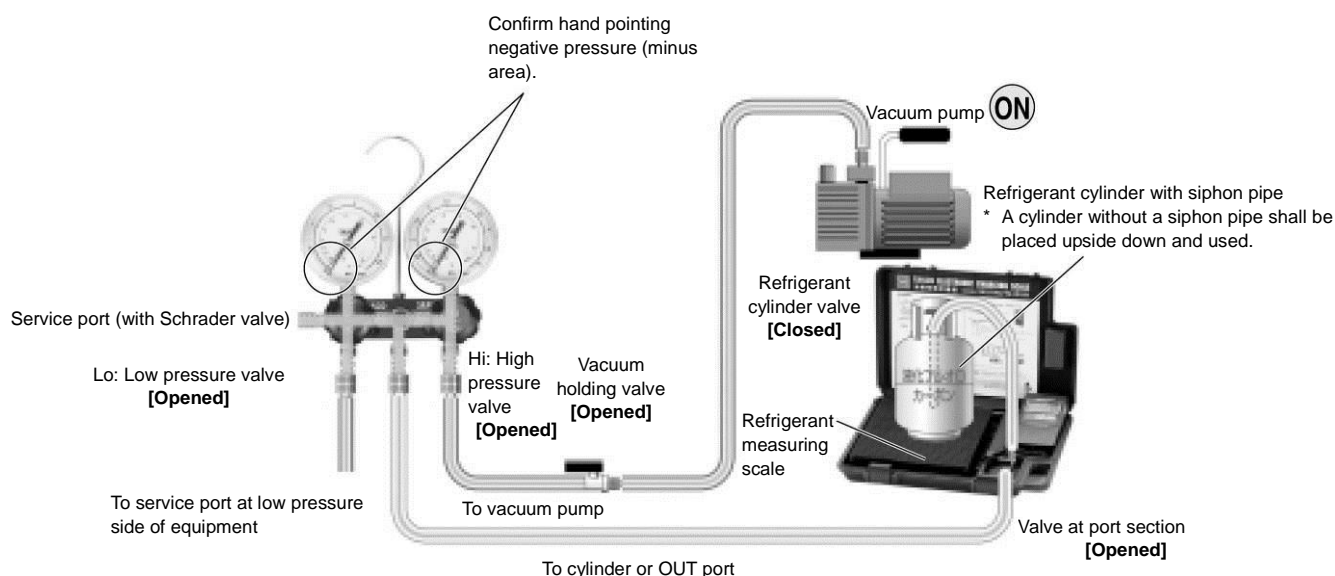
* To avoid a static electricity shock to hands, etc., provide an earthing from the cylinder to an earthing terminal or to the ground. (Earthing wires are not provided.)

(3) Starting operation

1) Vacuum drying

(Example)

Firstly connect the manifold with the hoses as illustrated and dry vacuum the charging hoses and the inside of the piping.



2) Airtight test

Hi: High pressure valve [Closed]	Vacuum holding valve [Closed]
Lo: Low pressure valve [Closed]	Refrigerant cylinder valve [Closed]
* Vacuum pump stopped	

Left unattended for 5-10 minutes

Confirm that the gauge hands do not return toward the zero side (no leakage).

Close the vacuum pump after closing Hi: High pressure valve and Vacuum holding valve.

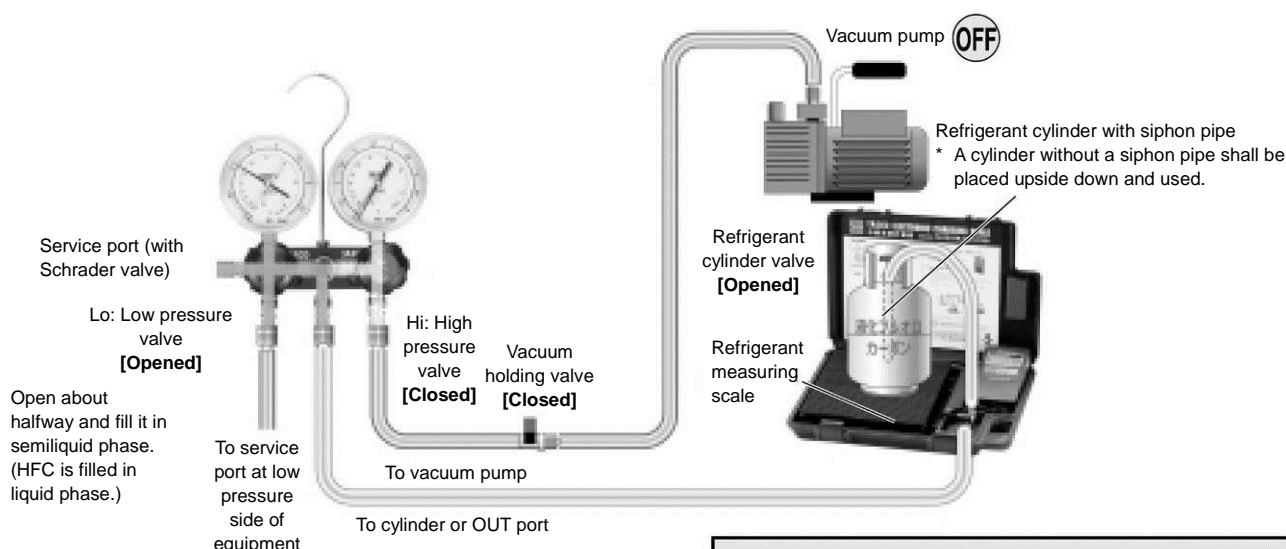
3) Refrigerant filling [Air-conditioning equipment] ⇒ [Cooling operation]

After opening the cylinder valve and the valve of the port section (only on TA101FB), make tare subtraction first.



If the central button of the indicator is pressed, the displayed weight will show "zero" and any quantity used for filling shall be shown in minus weight making it easier to understand.

Thereafter, open Lo: Low pressure valve of the manifold.



The R22 liquid refrigerant contained in the 1/4 charging hose from the manifold to the equipment service port shall be calculated as about 20 g/m (at 20°C).

(4) Work completion



When the minus value shown in the indicator has reached the specified quantity to be filled, close each valve and remove the charging hose.



To avoid overcharging at this time, start restraining the supply about 100 g short of the filling target and adjust the refrigerant flow rate.

4. Accessories

- (1) R410A adapter × 2 units (only on TA101FB)

1/4 Female flare × 5/16 adapter

If used for refrigerant R410A, install them at IN port [10] and OUT port [12] respectively. Installation can be performed by manual fastening.

- (2) DC9V (006P) square type battery

Set it at the indicator prior to use.

5. Repair

In the event any defect has been identified with the product, please contact the dealer from whom the product was purchased or the technical support center (TEL: +81-6-6584-7800).

No. _____

Warranty Certificate

Thank you for purchasing a TASCO product. In an event that the product fails under proper conditions of use within the warranty period, it shall be repaired without a cost to the customer according to the warranty terms described below.
Send a request with this certificate attached.

Terms of Warranty

Failures occurring within the warranty period shall be repaired free of charge unless they fall into any of the followings.

1. Failures caused by improper handling, use and storage not observing the instruction manual.
2. Failures caused by the application of abnormal mechanical impacts during the carriage and transportation after the purchase, such as dropping the product.
3. Failures caused by a modification, repair or disassembling done by persons other than the supplier and engineers commissioned by the supplier.
4. Failures caused by a fire, earthquake, flood, pollution and/or other acts of God.
5. Changes in the appearance, such as scratches.
6. Failures for which the supplier cannot be held liable.
7. Replacement and replenishment of consumables.
8. In an instance that this warranty certificate is not presented.

⊙ Cautions

- **Note that secondary damages are not warranted even if they are the result of the product failure.**
- If it has been determined that the case falls in one of the above after the supplier inspects the product condition, the cost of repair shall be charged.
- Ship the product to the supplier or the place of purchase by packing it in a way damages during the transportation can be avoided.

Product name	HIGH-PRECISION ELECTRONIC CHARGING SCALE
Model No.	TA101FA/TA101FB
Serial No.	
Warranty period	One year from the date of purchase (/ /)
Customer	Name:
	Address:
	Tel.:
Dealer	Name:
	Address:
	Tel.:

* Notes to the dealer: Ensure that all information is entered before handing this certificate to the customer.

⊙ Cautions

- Read the terms of warranty described above carefully.
- This warranty certificate is valid only in Japan.
- This warranty certificate shall not be reissued. Keep it securely.

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