



On-board Battery BT-52QA

Thank you for purchasing the TOPCON On-board Battery BT-52QA. For the best performance of the instruments, please read these instructions carefully and keep them in a convenient location for future reference.


Display for safe use


In order to encourage the safe use of products and prevent any danger to the operator and others or damage to properties, important warnings are put on the products and inserted in the instruction manuals. We suggest that everyone understand the meaning of the following displays and icons before reading the "Safety Cautions" and text.

Display	Meaning
 WARNING	Ignoring or disregard of this display may lead to death or serious injury.
 CAUTION	Ignoring or disregard of this display may lead to personal injury or physical damage to the instrument.

- Injury refers to hurt, burn, electric shock, etc.
- Physical damage refers to extensive damage to buildings or equipment and furniture.

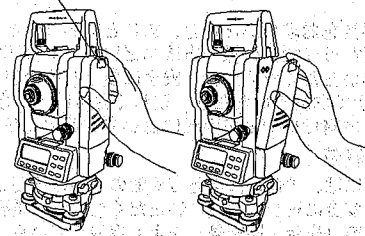
Safety Cautions

 WARNING
<ul style="list-style-type: none"> • There is a risk of fire, electric shock or physical harm if you attempt to disassemble or repair the instrument yourself. This is only to be carried out by TOPCON or an authorized dealer, only!
<ul style="list-style-type: none"> • High temperature may cause fire. Do not cover the charger while it is charging.
<ul style="list-style-type: none"> • Battery can cause outbreak of fire. Do not block up the vent of the battery.
<ul style="list-style-type: none"> • Risk of fire or electric shock. Do not use damaged power cable, plug and socket.
<ul style="list-style-type: none"> • Risk of fire or electric shock. Do not use a wet battery or charger.
<ul style="list-style-type: none"> • May ignite explosively. Never use an instrument near flammable gas, liquid matter, and do not use in a coal mine.
<ul style="list-style-type: none"> • Battery can cause explosion or injury. Do not dispose in fire or heat.
<ul style="list-style-type: none"> • Risk of fire or electric shock. Do not use any power voltage except the one given on manufacturers instructions.
<ul style="list-style-type: none"> • Battery can cause outbreak of fire. Do not use any other type of charger other than the one specified.
<ul style="list-style-type: none"> • The short circuit of a battery can cause a fire. Do not short circuit battery when storing it.

 CAUTION
Do not connect or disconnect equipment with wet hands, you are at risk of electric shocks if you do!
Do not allow skin or clothing to come into contact with acid from the batteries, if this does occur then wash off with copious amounts of water and seek medical advice.

EXCEPTIONS FROM RESPONSIBILITY
1)The user of this product is expected to follow all operating instructions and make periodic checks of the product's performance.
2)The manufacturer, or its representatives, assumes no responsibility for results of a faulty or intentional usage or misuse including any direct, indirect, consequential damage, and loss of profits.
3)The manufacturer, or its representatives, assumes no responsibility for consequential damage, and loss of profits by any disaster, (an earthquake, storms, floods etc.). A fire, accident, or an act of a third party and/or a usage any other usual conditions.
4)The manufacturer, or its representatives, assumes no responsibility for any damage, and loss of profits due to a change of data, loss of data, an interruption of business etc., caused by using the product or an unusable product.
5)The manufacturer, or its representatives, assumes no responsibility for any damage, and loss of profits caused by usage except for explained in the user manual.
6)The manufacturer, or its representatives, assumes no responsibility for damage caused by wrong movement, or action due to connecting with other products.

Lock lever



To remove

Push the lock lever downward and pull out the on-board battery.

To install

Place the base of the on-board battery into the main body; push the on-board battery toward the instrument side till the battery clicks into position.

Battery Charger

Supporting : BC-27, BC-27BR, BC-27CR, BC-27M

To charge the battery, refer to the instruction manual of the total station or the charger.

Note

- 1)Recharging should take place in a room with an ambient temperature range of +10°C to +40°C (+50°F to +104°F).
- 2)Exceeding the specified charging time may shorten the life of the battery and should be avoided if possible.
- 3)The battery source will discharge when stored and should be checked before using with instrument.
- 4)Be sure to charge a stored battery source every 3 or 4 months and store in a place at 30°C and below when it will not be used for a long period. If you allow the battery to be completely discharged, it will have an effect on the overall performance for proper charging in the future.
- 5)The charger may develop heat while charging; there is no problem of it. 6)If charging is done at high temperature, charging time of the battery may take longer.

SPECIFICATIONS

Output voltage	: DC7.2V
Capacity	: 2.7AH
Recharging time(at+20°C / +68°F)	: 1.8hours

Note : This battery does not contain mercury.