

# GXA-09 Built-in Rechargeable Battery

## A&D Company, Limited

The built-in rechargeable battery unit (GXA-09) can be installed to GX-A series and GF-A series electronic balances manufactured by A&D. If this unit is installed to a balance, the balance can be used while the battery is charging in location with unstable AC power supply or it can be used using charged battery in location where AC power is not available.

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### 1. Part Names

#### Rear Side of Balance

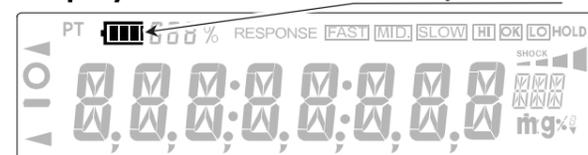
Built-in rechargeable battery

AC adapter jack

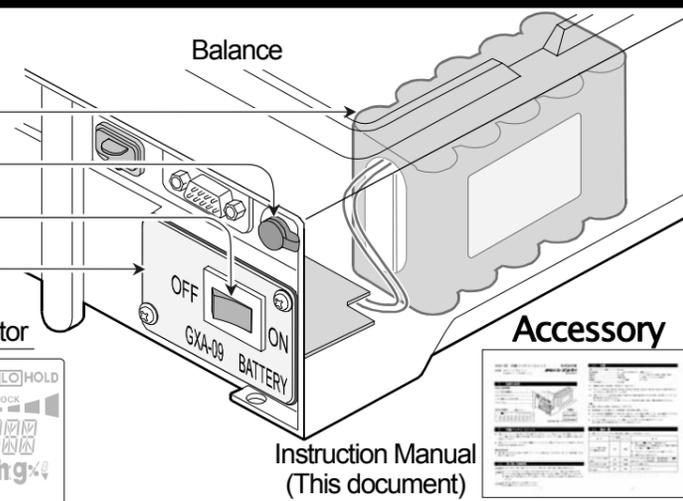
Battery power switch (ON/OFF)

Battery panel

#### Display of Balance



Battery indicator



### 2. Precautions

- ⚠ DANGER**
  - Do not place the device in fire, heat it, or disassemble it. It may build up heat, explode, leak or catch fire. Follow local regulations when disposing of a used battery.
- ⚠ WARNING**
  - Do not remove the battery panel and battery from the balance. It could short and build up heat or catch fire.
  - Over-charging or over-discharging the battery may result in heat buildup, generation of gases or leaking.
  - When charging the battery, use the AC adapter provided with the balance. Using an AC adapter other than the one provided may cause heat buildup and could cause a fire.
- ⚠ CAUTION**
  - Keep the unit out of the reach of children.
  - Do not drop or apply shock to the unit.

### 3. Installation Method

- This unit consists of a rechargeable battery and battery panel (with electric board), and it has been installed inside the balance prior to delivery.
- If you want to install the built-in rechargeable battery unit (GXA-09) to a balance that was not equipped with this unit, contact your local A&D dealer.

### 4. Specifications

- Unit mass ..... Approximately 0.4 kg
- Operating temperature range .... +5 to +40 °C (+41 to +104 °F), 85 % RH or less ( No condensation)
- Charging time ..... Approximately 10 hours
- Charging method ..... Constant current charge ( Automatic stop)
- Battery type ..... Nickel-metal hydride battery (Ni-MH)
- Operation time ..... Approximately 14 hours (When the unit is used continuously, operating time of the battery may differ according to the operating conditions.)

\*1: The following options cannot be installed to the same balance at the same time. GXA-03, GXA-04, GXA-06, GXA-08, GXA-09, GXA-11, GXA-23, GXA-24, GXA-25, GXA-26 (Includes options scheduled for release.)

#### Cautions

- Number of hours of continuous operation depends on operating conditions.
- The battery may self-discharge if it is left unused for a long period of time. Charge the battery after a long period of non-use.
- The balance still consumes power after the display is turned off using the **ON/OFF** key on the front panel. To turn the power off completely, disconnect the AC adapter from the balance and turn OFF the battery power switch on the battery panel.
- Every time the battery power switch is turned ON while the AC adapter is connected to the balance, the battery will start charging. Charging the battery repeatedly before it is completely discharged will shorten the battery life.
- When the battery unit has failed, **Error BAt** is displayed. Contact your local dealer because the battery unit needs to repair.

### 5. Battery Condition And Operation

- The following list describes operations and responses concerning the battery unit and balance. Refer to the following pages for details.

Operation	Battery power switch	AC adapter	Description
Charging the battery. Refer to 5.1. on the next page.	ON	Connected	<ul style="list-style-type: none"> <li>The battery indicator  blinks and charging starts. When fully charged, charging stops automatically and the battery indicator  lights.</li> <li>The balance can be used while charging the battery.</li> <li>If the battery is charged, the balance can be used without the AC adapter.</li> </ul>
Using the balance powered by the battery. Refer to 5.2. on the next page.	ON	Not connected	<ul style="list-style-type: none"> <li>The power is supplied from the battery to the balance, and remaining level is monitored with the battery indicator . Refer to "4. Specifications" for the operating time of the battery.</li> <li>Charge the battery after it is completely discharged whenever possible.</li> </ul>
Using the balance powered by the AC adapter. Refer to 5.3. on the next page.	OFF	Connected	The battery is not charged.
Turning off the balance completely. Refer to 5.4. on the next page.	OFF	Not connected	The battery power is not consumed.

Continued on opposite side.

## 5.1. Charging the Battery

- The procedure for charging the battery using the AC adapter is described here.
- The balance can be used while charging the battery.

### Cautions

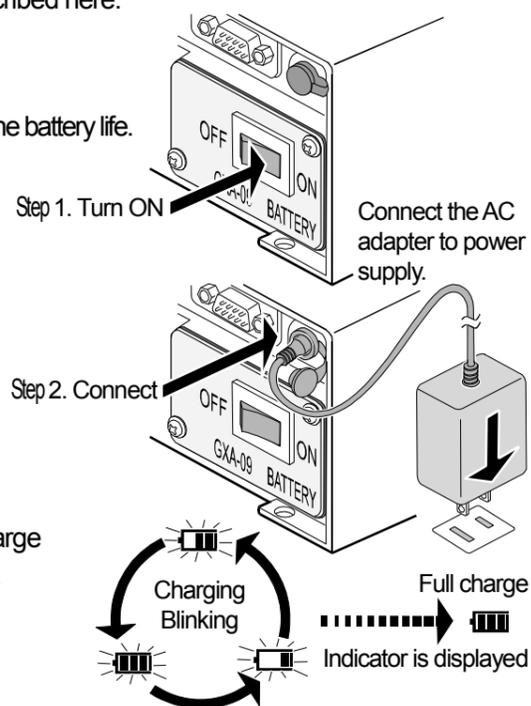
- Charging the battery is charged before complete discharge will shorten the battery life.
- When you start to charge the battery, make sure the full battery indicator  is displayed.

### Procedure

Step 1. Make sure that the battery is completely discharged before recharging. When the battery power switch on the battery panel is turned to ON with the AC adapter disconnected, make sure that the balance either displays **Low Volt** (low battery) or does not work at all.

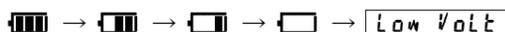
Step 2. Connect the AC adapter to the balance. The unit will begin to charge the full battery. The battery indicator  blinks while charging.

Step 3. Charging the battery takes approximately 10 hours (from 0% charge to full charge). Make sure to charge the battery until the full battery indicator  is displayed.



Information A depleted battery generally tends to have shorter charging time and reduced capacity.

## 5.2. Using the Balance Powered by the Battery

- The procedure for operating the balance using a charged battery is described here.
- Remaining battery can be checked using battery indicator while battery is supplying power to the balance.  
Battery indicator 

### Procedure

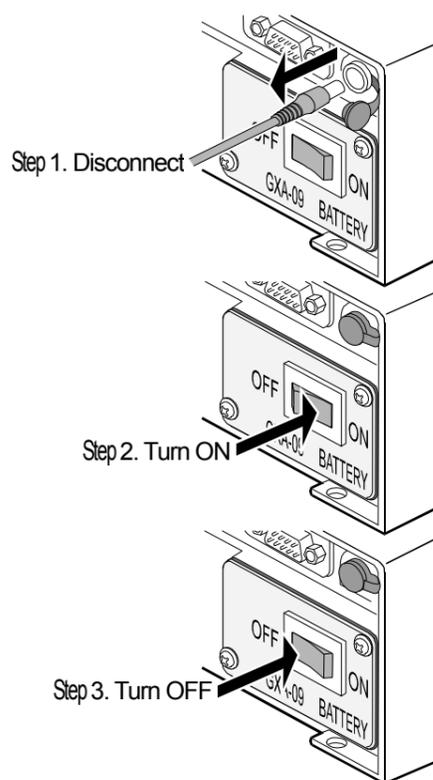
Step 1. After the battery is charged completely, disconnect the AC adapter from the balance.

Step 2. When the battery power switch is turned to ON, power is supplied to the balance.

Step 3. When the battery is low, the balance displays **Low Volt** or does not work at all.

**Turn OFF the battery power switch on the battery panel to protect the battery.**

Stop operating the balance and charge the battery.



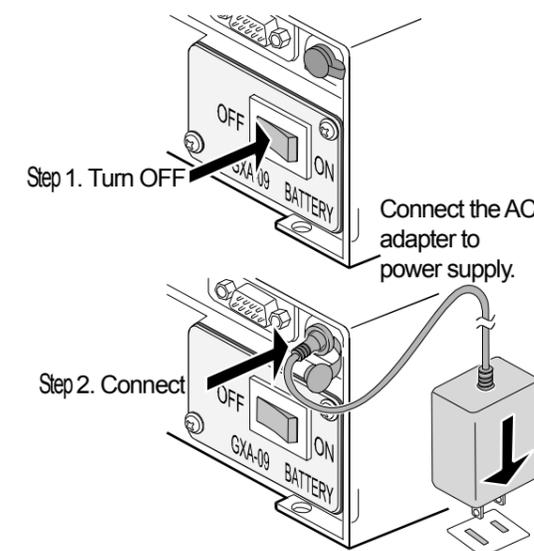
## 5.3. Using the Balance Powered by the AC Adapter

- The procedure for operating the balance using the AC adapter is described here. (The state not to be charged to battery)
  - The balance can be used powered by the AC adapter even if the battery is depleted.
  - When the balance is used powered by the AC adapter, the battery power is not used and charging is not performed.

### Procedure

Step 1. Turn OFF the battery power switch on the battery panel.

Step 2. Connect the AC adapter to the balance. The balance is powered by the AC adapter only.



## 5.4. Turning off the Balance Completely

- The procedure turning off the balance and not consuming battery power is described here.

### Procedure

Step 1. Disconnect the AC adapter from the balance.

Step 2. Turn OFF the battery power switch. This way, power supply from the battery is stopped and battery power is not consumed.

