

Intoximeters

World Leader in Breath Alcohol Testing for Over Sixty Years

POWER SOURCES FOR THE RBT IV MICROPROCESSOR/PRINTER

- 1) The RBT IV comes with a 12-volt rechargeable battery which provides portability for alcohol testing in the field. Most customers use this battery to power the RBT IV. A fully charged battery should power the RBT IV for at least fifty tests. The RBT IV system also comes with a 12-volt battery charger for use when the battery power becomes low. See the section below "**Recharging RBT IV Battery**".
- 2) An optional Power Adapter (part number 27-6710-00) may be purchased. This accessory converts wall current to power the RBT IV directly, bypassing the 12-volt battery. The adapter is plugged into a 120v wall outlet and connected to the RBT IV via the 12-volt jack on the side of the printer. It does not replenish the 12-volt rechargeable battery.
- 3) Another optional power source is a 12-volt cigarette lighter power cord (part number 27-6730-00) which plugs into a vehicle's cigarette lighter and runs directly off 12 volts. This power cord also plugs directly into the RBT IV via the 12-volt jack on the side of the printer and does not replenish the 12-volt rechargeable battery. Only the special Power Adapter or the 12-volt cigarette lighter power cord can be plugged directly into the RBT IV via this side port. **DO NOT PLUG THE BATTERY CHARGER INTO THE SIDE PORT ON THE PRINTER.**

Recharging the RBT IV Battery

The RBT IV will alert the user to a low battery condition by displaying "Battery Low" on the RBT IV display. You should not leave the battery uncharged after the low battery indicator appears, as this could lead to a shorter battery life. Another indication that the battery needs to be recharged is if the RBT IV is not able to print your alcohol test results.

- The 12-volt rechargeable battery is charged by connecting the **battery charger** to wall current and then to the charger jack imbedded in the foam of the case. It is the silver disk marked Battery Charger. Do not plug the battery charger into the jack on the side of the RBT IV as this could damage the internal electronics and may require a factory repair.
- The rechargeable battery should be connected to the battery charger for 8-10 hours to obtain a full charge. Leaving it plugged in overnight or over a weekend is acceptable; however, the battery charger is not an alternate power supply and it is not recommended that you leave it plugged in all the time or charge the battery too frequently. In some cases, this may cause premature damage to the 12-volt battery, reducing its ability to store a charge, although this is less likely with newer chargers and batteries. **Note: The 12-volt battery supplied by Intoximeters is protected by an internal thermal fuse to prevent possible overheating during the charging process.**
- The RBT IV may be used while the battery is being recharged.
- The 12-volt battery should be charged using **only** the battery charger supplied by Intoximeters.

As the battery ages, it will become less and less able to store a charge – this is normal. When you notice that your battery is not holding a charge, it is time to purchase a new battery. It should be noted that if you continue to use the battery it will eventually become so depleted that the instrument will not operate even if the battery charger is plugged in. When this happens you **must** purchase a new battery or one of the alternate power cables to use your RBT IV. A new battery can be ordered from Intoximeters by specifying part number 27-6800-00 on the order form.

Please note that sealed lead acid batteries are environmentally unfriendly and are considered hazardous waste. Do not dispose of old batteries in your regular trash. The following website can help you access local regulations. <http://www.epa.gov/epawaste/wyl/stateprograms.htm>

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The following information may be listed on the side of the battery:

Sealed Lead Acid Battery – 12V – 2.3Ah

1. Important safety considerations:

- Do not incinerate.
- Do not directly connect the negative and positive terminals.
- Do not use other than the specified battery charger.

2. To prevent deterioration or damage to the battery:

- Do not drop or subject to strong physical shock.
- Do not use to power equipment other than specified.
- Do not use below -10°C (15°F) or above $+40^{\circ}\text{C}$ (105°F).

3. To ensure long battery life:

- Do not discharge completely — the SLA battery must always be stored in a charged state.
- The SLA battery does not lend itself to fast charging—typical charge times are 8 to 10 hours.
- The SLA battery can be stored for up to two years but must be charged from time to time.
- A periodic topping charge, also referred to as ‘refreshing charge’, is required to prevent the open cell voltage from dropping below usable levels.