Power Cable/Fuse Replacement

This document describes how to change the power cord and fuse on a SmartBits chassis when using the Power Cable/Fuse Kit that is shipped with the chassis.

The Power Cable/Fuse Kit contains the power cable and fuses that should be used for international operation (other than U.S.A.) in a SmartBits chassis, in compliance with safety requirements. Each SmartBits chassis is shipped with the default U.S.A. fuses installed.

Fuse Amperage Information

Table 1 lists the fuse amperage specified for each SmartBits chassis.

<table>
<thead>
<tr>
<th>Chassis</th>
<th>Fuse Amperage U.S.A.</th>
<th>Fuse Amperage International</th>
</tr>
</thead>
<tbody>
<tr>
<td>SmartBits 200</td>
<td>2 Amp.</td>
<td>1 Amp.</td>
</tr>
<tr>
<td>SmartBits 10</td>
<td>3.15 Amp.</td>
<td>2 Amp.</td>
</tr>
<tr>
<td>SmartBits 2000</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SmartBits 600</td>
<td>2 Amp.</td>
<td>1 Amp.</td>
</tr>
<tr>
<td>SmartBits 6000B</td>
<td>10 Amp.</td>
<td>5 Amp.</td>
</tr>
</tbody>
</table>
Chassis Fuse Location

The power supply inlet switch is the main disconnect device and is located on the rear of each SmartBits chassis. It houses the power switch, fuse holder, and a universal 3-wire instrument power cord jack. The power supply connector in each SmartBits chassis has a universal input that accepts 120/240 VAC and requires no selection or adjustment.

**Warning:** To comply with safety regulations, always make sure that the chassis is powered off and disconnected when removing or inserting fuses. *Figure 1* shows the location of the power supply inlet switch on each SmartBits chassis.

*Figure 1.* Location of Power Supply Inlet Switch

Types of Power Supply Inlet Switches

There are two types of power supply inlet switches used in the SmartBits chassis. One type is used with the SMB-10, SMB-200, SMB-2000, and SMB-600 chassis and is described on page 3. The other type is used in the SMB-6000B and is described on page 4.

The fuse holder is located within the power supply inlet switch (see *Figure 2*). Use a small, flat-head screwdriver to open the fuse holder for each switch.

*Figure 2.* Fuse Holder Location on the Power Supply Inlet Switches
Installing a Chassis Fuse

The installation of a SmartBits chassis fuse varies based on the chassis model. Refer to the appropriate procedure below to install the fuse for your SmartBits chassis model.

**SMB-10, SMB-200, SMB-2000, and SMB-600 Power Supply Inlet Switch**

To remove or change a fuse:

1. If your chassis is operating, power down the chassis and disconnect the power supply cable from its power source.
2. Insert the screwdriver in the fuse holder assembly slot shown in Figure 3 and pry the fuse holder open.
3. Slide the fuse holder assembly out of the power supply inlet switch.
4. Locate the fuse that is attached to the bottom of the fuse holder assembly shown in Figure 4.

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**Figure 3.** Fuse Holder Assembly Slot Location on the Power Supply Inlet Switch (SMB-10/200/2000/600)

**Figure 4.** Fuse Holder Assembly Removed from the Power Supply Inlet Switch
5  Remove the fuse and replace it with the international fuse provided in the Power Cable/Fuse Kit.

6  Replace the fuse holder assembly by sliding it back into the power supply inlet switch until it snaps into its proper position.

7  Connect the new international power supply cable provided in the Power Cable/Fuse Kit.

**Note:** In the fuse holder assembly, there is a small compartment that slides open (see *Figure 5*). This is used to hold a spare fuse. To open the compartment, use a pointed instrument (such as a pencil) and push the compartment out from either end.

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**SMB-6000B Power Supply Inlet Switch**

**To remove or change a fuse:**

1  If your chassis is operating, power down the chassis and disconnect the power supply cable from its power source.

2  Insert the screwdriver in the cover slot as shown in *Figure 6* and pry open the cover.

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*Figure 5.* Spare Fuse Compartment in the Fuse Holder Assembly

*Figure 6.* Fuse Holder Assembly Cover Slot Location on a Power Supply Inlet Switch (SMB-6000B)
3 Use the screwdriver again and place it in the slot at the top of the red fuse holder assembly (*Figure 7*), then pry the assembly out.

![Figure 7. Fuse Holder Assembly Slot Location (SMB-6000B)](image)

4 Slide the fuse holder assembly out of the power supply inlet switch.

5 Locate the fuse that is attached to the side of the fuse holder (*Figure 8*).

![Figure 8. Fuse Location in the Fuse Holder Assembly](image)

6 Remove the fuse and replace it with the international fuse provided in the Power Cable/Fuse Kit.

7 Replace the fuse holder assembly by sliding it back into the power supply inlet switch until it snaps into its proper position.

8 Close the cover of the switch until it snaps shut.

9 Connect your new international power supply cable provided in the Power Cable/Fuse Kit.