Notes, Cautions, Warnings

Note
This format emphasizes information of particular importance.

CAUTION
This format alerts the user to the possibility of a problem with the device associated with its use or misuse, such as device malfunction, device failure, damage to the device, or damage to other property.

For complementary informations consult chapter 2 of the HAMILTON-C2 Operator’s Manual.
1 Inventory, Tools

- HAMILTON-C2
  PN 160001

- High pressure oxygen connector
  (incl. nut & nipple connector)
  1 PN 160470 DISS or
  2 PN 160471 NIST

- Coaxials breathing Set
  PN 260086

- Inspiratory Filter
  PN 279204

- Flow Sensor, pediatric / adult, disposable
  PN 279331

- Filter Set (Additional)
  PN 160215

- Battery
  PN 369106

- Demonstration lung
  PN 151815

- Screwdriver T10
  PN 239615

- Powercord
  PN 355198 USA or
  PN 355199 GB or
  PN 355200 EU or
  PN 355308 CN

- Language Kit
  PN 160010 English or
  PN 160011 German or
  PN 160012 Spanish or
  PN 160013 French

- Security Clamp
  PN 361061
  PN 361097
  belongs to Powercord
  PN 355199
  PN 355198
  PN 355200
  PN 355308
2 Packaging

CAUTION
In case the HAMILTON-C2 must be shipped at a later stage to another destination, it is advisable to store the original packaging for later use to protect the equipment from transport damage.
3 Set Up
3.1 DISS / NIST

1: Remove the yellow cap

2: Insert the included NIST or DISS connector
3.2 Battery

**CAUTION**

For safety reasons, the HAMILTON-C2 switches automatically ON when powered. If the battery capacity is too low, the selftest during start up fails. Therefore switch OFF by pressing the ON/OFF button for 10 seconds and connect AC power cord of the HAMILTON-C2. Then start up again.

1: Open Battery door

2: Move the battery latch upwards
Set Up

3: Insert the battery, until the battery latch flaps down

4: Turn the lock in position

3.3 Power Cord

Connecting to AC power

Note

• To prevent unintentional disconnection of the power cord, make sure it is well seated into the ventilator’s socket and secured with the power cord retaining clip (Figure 2-10).
• The HAMILTON-C2 does not require protective earth grounding, because it is a class II device, as classified according to IEC 60601-1.
Connect the HAMILTON-C2 to an outlet that supplies ac power between 100 and 240 V, 50/60 Hz. Always check the reliability of the ac outlet. The AC power symbol in the bottom righthand corner of the screen is displayed with a frame around it.

1: Insert the power cord

2: Fix cable with the suitable security clamp

**CAUTION**
Load battery before first use for at least 4 hours.
3.4 First start-up

Starting the HAMILTON-C2 the first time, you will be asked to enter your local date and time by the alarm message “Realtime Clock Failure“. In order to avoid the alarm, start up the HAMILTON-C2 into service software and set your local date and time.
# 4 Testing & Acceptance

## Perform the HAMILTON-C2 Initial Install Report

<table>
<thead>
<tr>
<th>HAMILTON-C2 Initial Install Report</th>
</tr>
</thead>
<tbody>
<tr>
<td>Date in YYYY/MM/DD:</td>
</tr>
<tr>
<td>Name of person who performed installation:</td>
</tr>
<tr>
<td>Serial/unit number of Hamilton-C2:</td>
</tr>
<tr>
<td>Location of installation:</td>
</tr>
</tbody>
</table>

### Procedure:

<table>
<thead>
<tr>
<th>Do or observe...</th>
<th>Verify...</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mount DISS or NIST connector</td>
<td></td>
<td>For details see page 6 in the HAMILTON-C2 installation guide.</td>
</tr>
<tr>
<td>Install battery</td>
<td></td>
<td>For details see page 7 in the HAMILTON-C2 installation guide.</td>
</tr>
<tr>
<td>Connect ventilator to ac or dc power and oxygen supply. Assemble the patient breathing circuit.</td>
<td>Breathing circuit is assembled correctly.</td>
<td>See Figure 2.2 trough 2.5 of the HAMILTON-C2 Operator's Manual</td>
</tr>
<tr>
<td>Switch on power</td>
<td>When ventilator is switched on, buzzer sounds and the red alarm lamp flashes. After the self-test is passed the alarm lamp flashes again.</td>
<td>The buzzer sounds only brief in the beginning.</td>
</tr>
<tr>
<td>Choose language over the configuration setting.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Set date and time.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Make sure the ventilator is in standby, and select Preop check from the Patient setup window.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Open System -&gt; Tests &amp; calib window. Select and run the Tightness test, then the Flow Sensor calibration. Close window.</td>
<td>These tests pass.</td>
<td>For details on running these tests and calibrations, refer to Section 3.3.2 of the HAMILTON-C2 Operator's Manual</td>
</tr>
<tr>
<td>If necessary, run o2 cell calibration. Close window.</td>
<td>These tests pass.</td>
<td></td>
</tr>
<tr>
<td>Generate an alarm (for example, by disconnecting mains power).</td>
<td>Corresponding alarm message in message bar (for example, Loss of external power).</td>
<td>During standby, patient alarms are suppressed.</td>
</tr>
<tr>
<td>Resolve the alarm situation (for example, reconnect mains power).</td>
<td>Alarm is reset</td>
<td></td>
</tr>
</tbody>
</table>

### Corrective action:

If ventilator does not pass the preoperational check, have it serviced.

<table>
<thead>
<tr>
<th>Date and Signature:</th>
<th></th>
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## 5 Document History

<table>
<thead>
<tr>
<th>Revision</th>
<th>Date</th>
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<tr>
<td>00</td>
<td>September, 2008</td>
</tr>
<tr>
<td>01</td>
<td>September, 2009</td>
</tr>
<tr>
<td>02</td>
<td>May, 2010</td>
</tr>
<tr>
<td>03</td>
<td>January, 2014, new security clamp and powercord CN included</td>
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