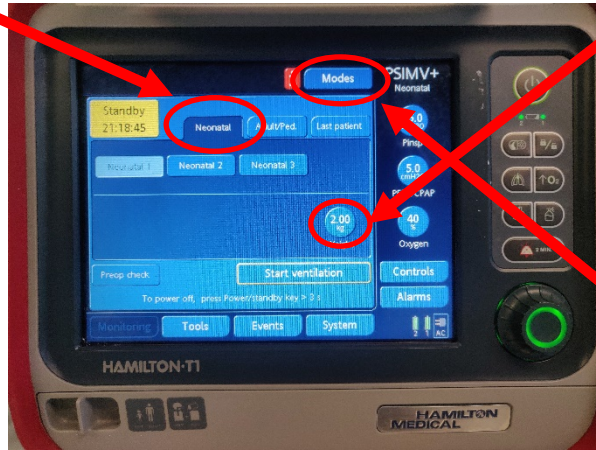# Hamilton t1: setup for child up to 30kg

1. Ensure small calibre neonatal tubing attached to ventilator and that flow tubing attached to correct terminals (see video)
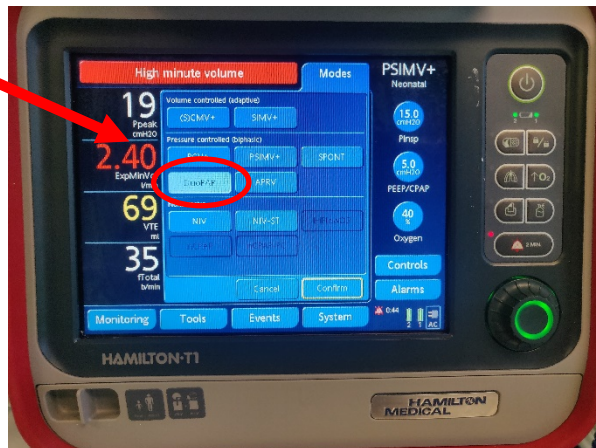
2. Select neonatal

3. Select weight of child

4. Select mode

5. Select DuoPAP

6. Select T high: 0.5s for baby, 0.75 s for child

7. Select rate: 20-25 for baby

8. Select PEEP (titrate accordingly. 5-10cmH2)

9. Select Fi02 appropriate for SpO2

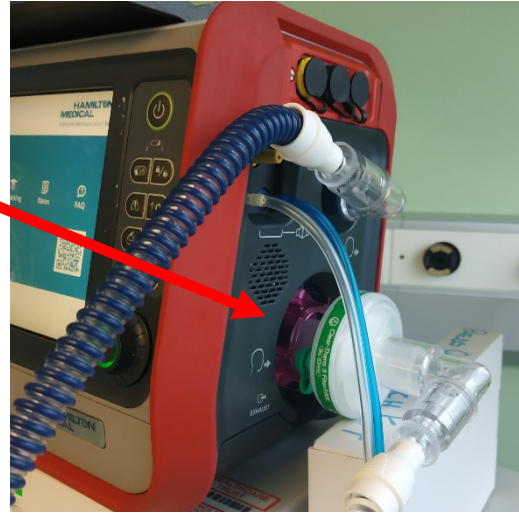10. Select confirm: ventilation will now commence

11. Important: Select alarms.
- Change pressure to 50 cmH2O (Vent will now deliver max 40cmH20 (10cm H20 under alarm limit)).
- Change Exp min vol to a reasonable level (vent won't deliver > 1.5 x alarm level).
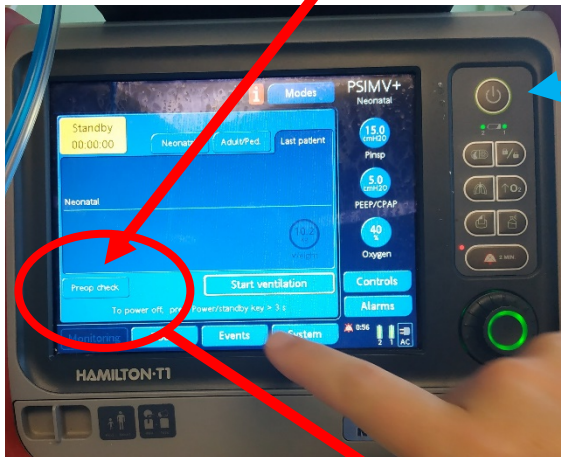- Change Vt to appropriate level (won't deliver >1.5x alarm level)

# Hamilton t1: setup for child up to 30kg
# Vent setup



Ensure adult HME connected to ventilator expiratory port

Complete pre vent checks (how to do is on the poster attached to the vent)



NOTE IF YOU WANT TO TURN VENT TO STANDBY PRESS POWER BUTTON ONCE, then standby on screen

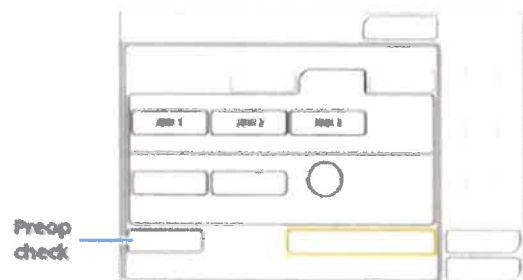Pressing in the circle opens this menu

# 3. Tests and calibrations
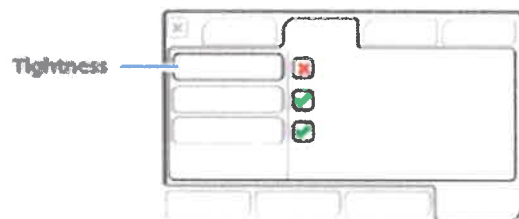
## 3.1 Performing the preoperational checks

1 Connect **ventilator** to AC or DC power and an oxygen supply.
2 Assemble the patient breathing circuit.
3 Turn on power.

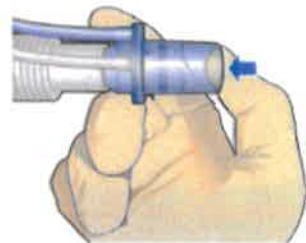The ventilator runs a self-test and displays the Standby window. Use only if ventilator passes all tests.

### Step one

1 Touch **Preop check** in the Standby **window**. The System > Tests & calib window is displayed.
2 Touch the **Tightness** button to perform the tightness test.

4 When prompted, block the patient **end** of the breathing circuit. Hold until prompted.

Pass ✔ or fail ✘ and date/time of completed test are displayed.

### Step two

1 Touch the **Flow Sensor** button to calibrate the flow sensor.
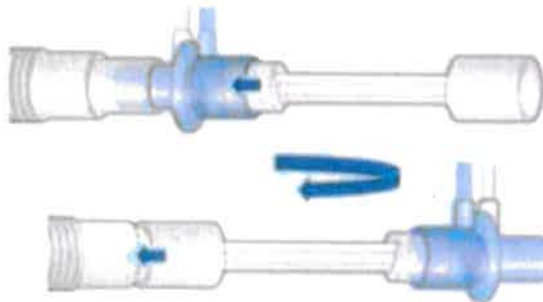
**To calibrate the Infant flow sensor**

1. Set the ventilator up as for normal ventilation, complete with breathing circuit and expiratory membrane and cover.

2. Make sure that the Neonatal patient group is selected, an infant flow sensor and neonatal expiratory valve are installed, and the calibration adapter is available.

3. In the System -> Tests & calib window, select Flow Sensor.

   If you have not already disconnected the patient, the text Disconnect patient is displayed.

4. Disconnect the patient now.



5. Follow the instructions displayed in the message line, attaching the adapter and turning the flow sensor around as indicated.



6. When prompted to turn the flow sensor again, turn the flow sensor back to its starting position, and remove the calibration adapter.

7. When calibration is complete, verify that there is a green check mark in the Flow Sensor checkbox.

8. If the calibration is successful, connect the patient, and touch the Start ventilation button in the Standby window to start ventilation.

**To calibrate an adult/pediatric flow sensor**

1. Set the ventilator up as for normal ventilation, complete with breathing circuit and flow sensor.

2. Activate **Flow Sensor** from the **Tests & calib** window (Figure 3-2).
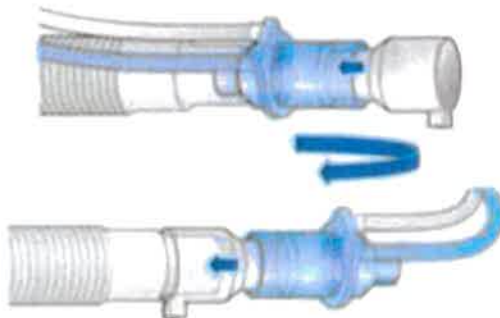
   If you have not already disconnected the patient, the message line displays **Disconnect patient**.

3. Disconnect the patient now.



4. Follow the instructions displayed in the message line, attaching the adapter when needed and turning the flow sensor around as indicated.

   If using the disposable flow sensor PN 281637, the additional adapter for **calibration** must be attached.



5. Follow the instructions displayed in the message line, turning the flow sensor back to its starting position when indicated.

6. When calibration is complete, verify that there is a green check mark in the **Flow Sensor** checkbox.