	Department: Respiratory Services	Date Originated: June 2009 Date Reviewed/Revised: February 2013
PROCEDURE	Topic: <u>Neonatal</u> – Babylog VN500 Ventilator Cleaning and Circuit Change (Respiratory Therapy) Number: B-00-12-12093	Related Links:

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APPLICABLE SITES:

St. Paul's Hospital

EQUIPMENT:

- Disposable infant ventilator circuit (heated inspiratory limb) with humidifier chamber
- Temperature probe
- Exhalation assembly
- Flow sensor element and housing

NOTE: All components of the circuit can be found in the NICU clean supply room **except** the temperature probe which must be obtained from ICU.

PROCEDURE:

1. Remove ventilator from the bedside and place in the dirty utility room.
2. Using personal protective equipment as appropriate, remove the flow sensor from the circuit, place in a plastic bag and seal the bag - **Do not remove the flow sensor from the housing.**

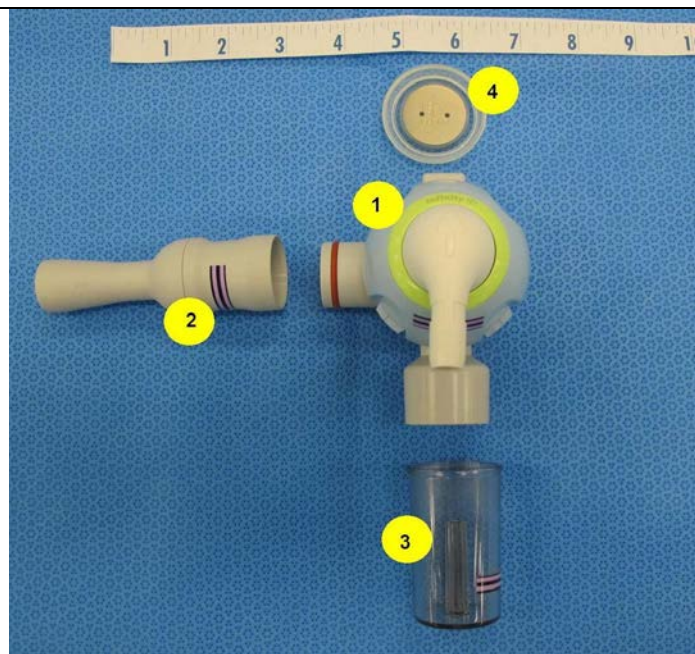


NOTE: Extra flow sensors are located in the NICU clean supply room and a standby one is attached to the side of the VN500 ventilator.

3. Remove the temperature probe and place in a sealed plastic bag.
4. Remove the disposable circuit with humidifier and discard.
5. Remove the exhalation assembly from the ventilator.

REMOVAL OF EXHALATION BLOCK ASSEMBLY:

- a. Lift the light blue cover by the lower edge upwards.
- b. Turn the locking ring as far as possible to the left and pull the entire assembly out towards you.
- c. Place exhalation assembly in a sealed plastic bag – **DO NOT DISMANTLE PIECES.**



NOTE: A spare exhalation assembly and additional diaphragms are kept in the NICU supply bin along with the flow sensors.

6. Remove contaminated gloves and wash hands.
7. Don clean gloves and surface wipe the ventilator using CAVI-wipes, including high-pressure hoses and power cords.
8. Rinse off any remaining film with a clean damp cloth.
9. Move ventilator to the clean equipment area and gather new circuit components.
10. Open the packaging of the required circuit components.
11. Attach the clean exhalation assembly to the Babylog ventilator.
12. Connect the various components needed to complete the circuit for the Babylog ventilator. Place the flow sensor into the circuit.
13. Ensure all connections are tight and there are no visible leaks in the system.
14. Perform the **Babylog VN500 Device Check, Breathing Circuit Check and Flow Sensor Calibration Procedure** as per RTD5306. The Breathing Circuit Check and Flow Sensor Calibration procedure should be repeated prior to placing the patient on the ventilator.
15. Hand deliver the flow sensor, exhalation assembly and temperature probe to Medical Device Reprocessing Department (MDRD) on level 1 Providence Building. They will then page the ER therapist when the items are reprocessed and ready to be picked up. Return the clean items back to the storage bin in the NICU clean supply room.