EVOS™ Onstage Incubator O_2 Sensor Replacement Kit

Catalog Number AMEP4947

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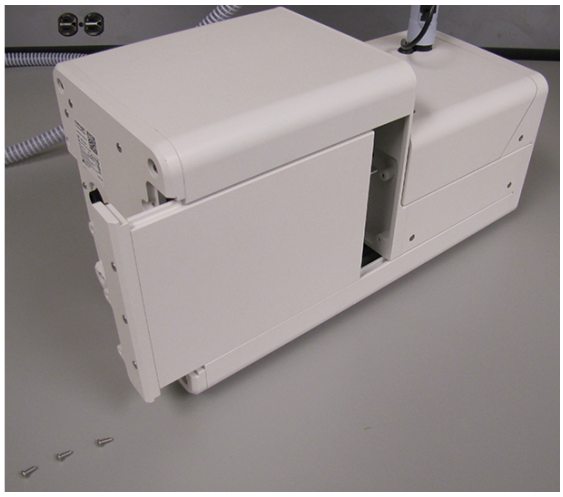
Note: For safety and biohazard guidelines, see the "Safety" appendix in the *EVOS™ M7000 Imaging System User Guide* (Pub. No. MAN0018326) or the *EVOS™ M5000 Imaging System User Guide* (Pub. No. MAN0017563). Read the Safety Data Sheets (SDSs) and follow the handling instructions. Wear appropriate protective eyewear, clothing, and gloves.

Kit contents

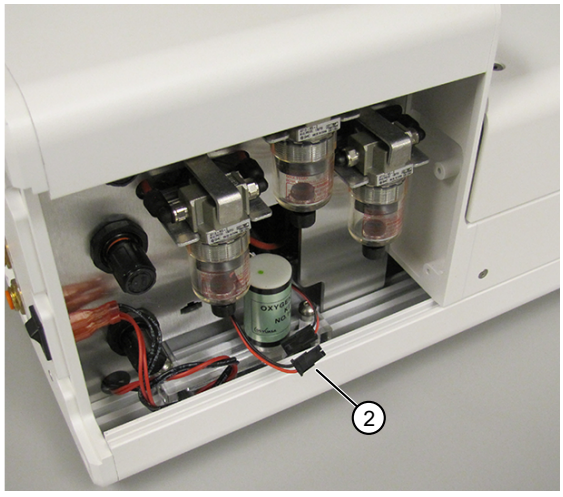
- O_2 sensor
- O-ring
- 2-mm Allen wrench
- Instructions

Replace the O_2 sensor

1. Power off the EVOS™ Onstage Incubator, then unplug the power cord, the USB cable, and the 6-pin sensor data cable from the control unit of the incubator.
2. Turn off the regulators on the gas tanks, then detach the gas lines from the control unit.
3. Use the 2-mm Allen key to remove the 3 button head screws, then slide out the side panel.



4. Unplug the O_2 sensor's connector (①: plugged, ②: unplugged).



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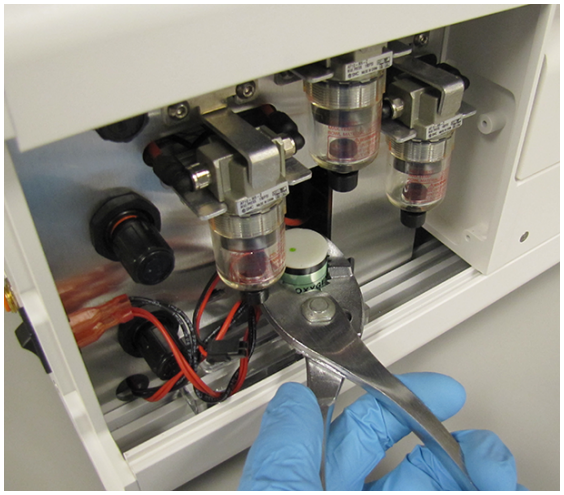
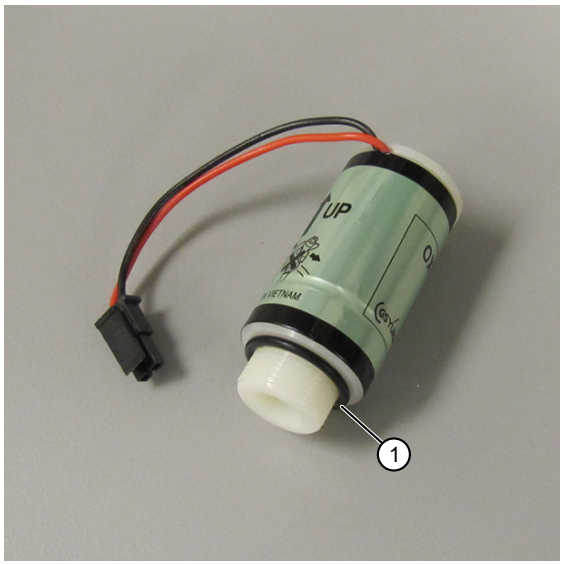
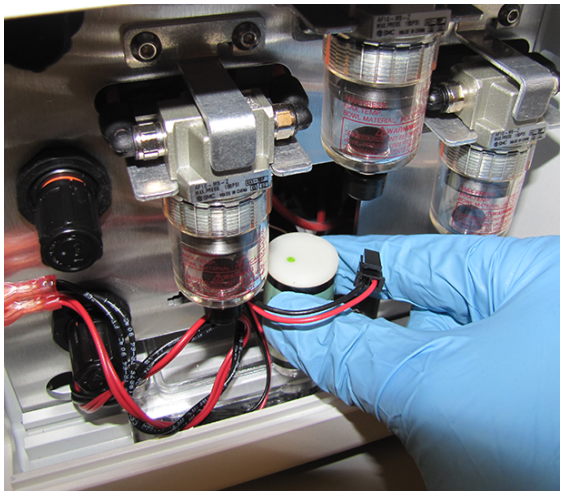
5. Unscrew the O_2 sensor.
Note: You might need to use pliers (not included in the kit) to overcome the initial friction. If using pliers, do not apply excessive pressure to prevent damage to the sensor.



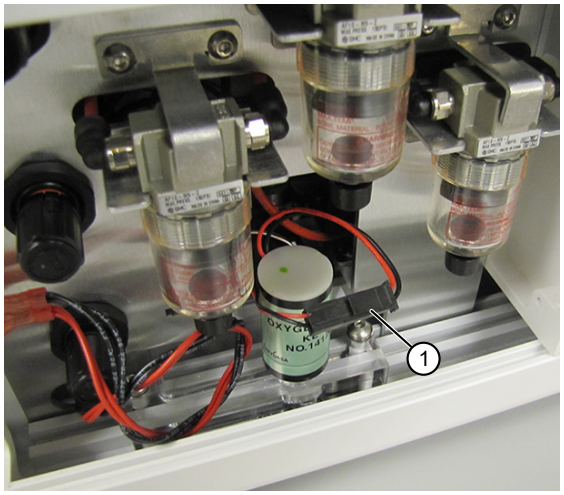
6. Verify that the O-ring (1) is installed on the new O_2 sensor. If not, install the O-ring as shown in the image.



7. Screw in the new O_2 sensor until the O-ring is compressed between the clear manifold block and the O_2 sensor.



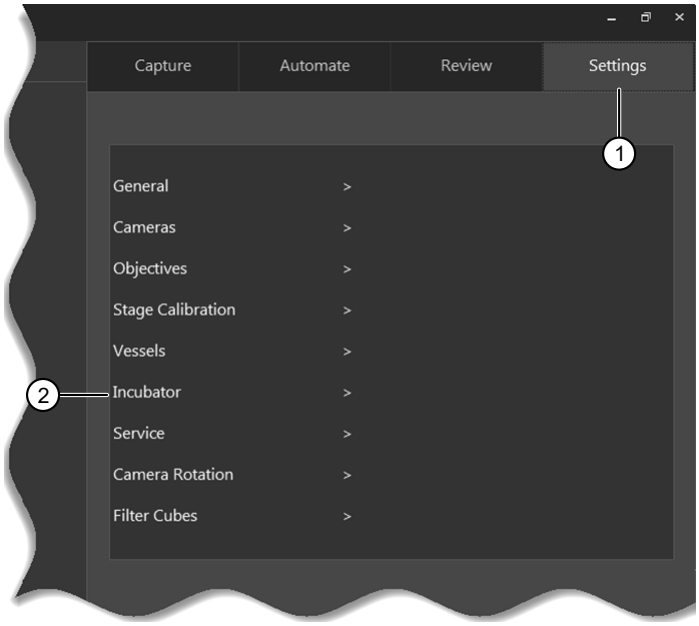
8. Plug in the O_2 sensor's connector ①.



9. Install the side panel and secure it with the 3 button head screws.
10. Calibrate the new O_2 sensor.

Calibrate the O_2 sensor (EVOS™ M7000 Imaging System)

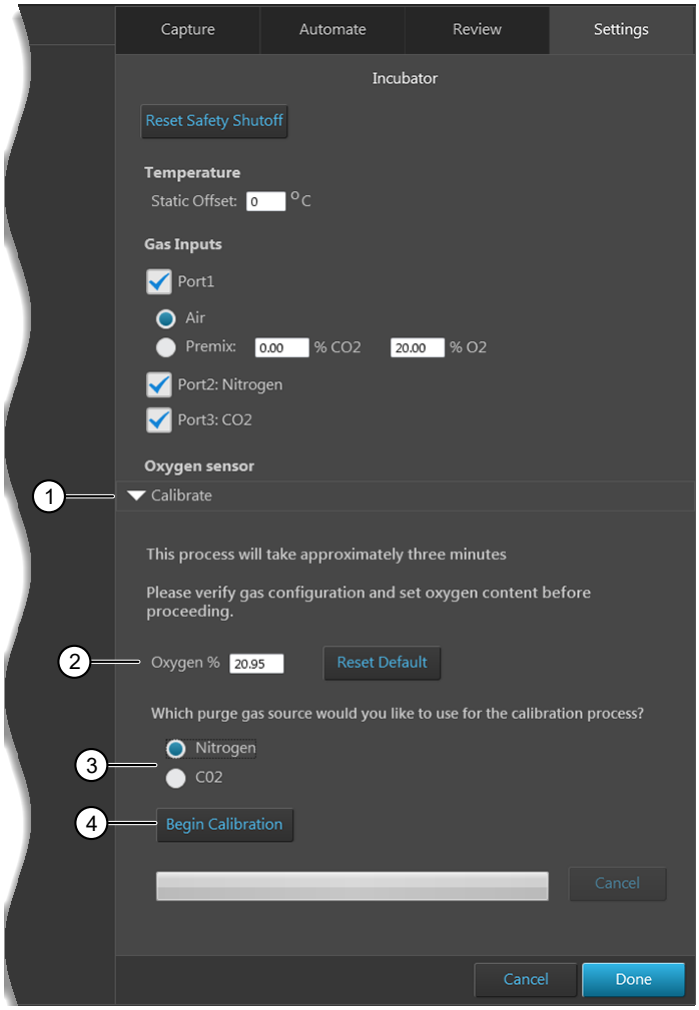
1. Plug the power cord into the power input jack on the control unit and the wall outlet.
2. Connect the control unit and the computer with the USB cable, then plug the 6-pin sensor data cable from the environmental chamber into the appropriate input jack on the control unit.
3. Re-attach the gas lines (Air and Nitrogen or CO_2) via the PTC (push-to-click) connectors to the control unit, then turn on the valves on the gas tanks and regulators.
4. First turn on the EVOS™ Onstage Incubator, then power on the EVOS™ M7000 Imaging System.
5. Start the EVOS™ M7000 Software, navigate to the **Settings** tab ① in the upper right of the screen, then open the **Incubator** menu ②.



① Settings tab

② Incubator menu

6. Open the **Oxygen sensor** ▸ **Calibrate** controls ① from inside the **Incubator** window.

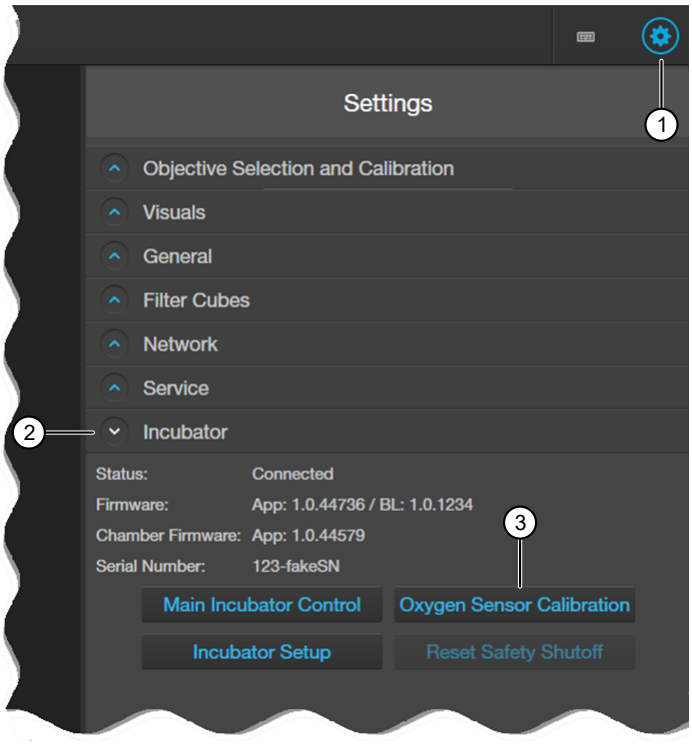


① Calibrate controls
② Oxygen %
③ Purge gas selection
④ Begin Calibration button

7. Set the **Oxygen %** ② to the oxygen content of the air used by the system.
   Note: The default value for **Oxygen %** is 20.95% for normal compressed air.
8. Select the purge gas to use: **Nitrogen** or **CO_2** ③.
9. Press **Begin Calibration** ④ to start the calibration routine.
   The calibration process takes approximately three minutes to complete. When complete, the system displays the **"Calibration was successful."** message next to the **Begin Calibration** button.
   If there was an error during calibration, the system displays the **"Calibration error, please check if gas is connected."** message.
10. In case of a calibration error, verify that the gas is connected, the gas valves and regulators are on, and the correct gas was selected as the purge gas, then repeat the calibration routine.
    Note: If the calibration error persists, contact Technical Support.
11. Press **Done** when finished.

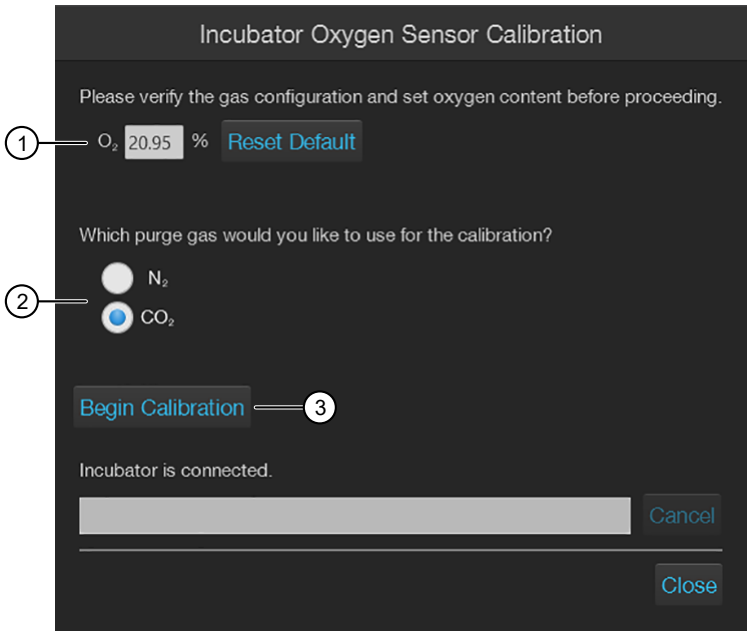
Calibrate the O_2 sensor (EVOS™ M5000 Imaging System)

1. Plug the power cord into the power input jack on the control unit and the wall outlet.
2. Connect the control unit and the computer with the USB cable, then plug the 6-pin sensor data cable from the environmental chamber into the appropriate input jack on the control unit.
3. Re-attach the gas lines (Air and Nitrogen or CO_2) via the PTC (push-to-click) connectors to the control unit, then turn on the valves on the gas tanks and regulators.
4. First turn on the EVOS™ Onstage Incubator, then power on the EVOS™ M5000 Imaging System.
5. Start the EVOS™ M5000 Software, click the **Settings** button ① in the upper right of the screen, then click to open the **Incubator** menu ②.



① Settings button
② Incubator menu
③ Oxygen Sensor Calibration button

6. Click **Oxygen Sensor Calibration** ③ in the **Incubator** menu to open the **Incubator Oxygen Sensor Calibration** window.



① Oxygen %
② Purge gas selection
③ Begin Calibration button

7. Set the **O_2 %** ① to the oxygen content of the air used by the system.
   Note: The default value for **O_2 %** is 20.95% for normal compressed air.
8. Select the purge gas to use: **Nitrogen** or **CO_2** ②.

9. Click **Begin Calibration** (3) to start the calibration routine.
   The calibration process takes approximately three minutes to complete. When complete, the system displays the **"Calibration was successful."** message under the **Begin Calibration** button.
   If there was an error during calibration, the system displays the **"Calibration error, please check if gas is connected."** message.
10. In case of a calibration error, verify that the gas is connected, the gas valves and regulators are on, and the correct gas was selected as the purge gas, then repeat the calibration routine.
    Note: If the calibration error persists, contact Technical Support.
11. When finished, click **Close** to close the calibration window, then click **Done** to go back to the main instrument screen.

Limited product warranty

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For descriptions of symbols on product labels or product documents, go to thermofisher.com/symbols-definition.

Revision history: Pub. No. MAN0025857

Revision	Date	Description
A.0	02 November 2021	New document

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