Installation Manual

Oxygen Sensor

For Dual Incu *i*, Incu *i*, V-2200 and V-2100G

• **Items contained in the package**

1. Oxygen sensor 2
2. Oxygen sensor holder (for V-2200/V-2100G) 2
3. Installation Manual 1

• **How to install the oxygen sensors**

[Dual Incu *i*, Incu *i*]

(1) Remove the oxygen sensor cap from the sensor module.
(2) When the oxygen sensors are seated in the sensor module, take them out from the module.
(3) Attach the new sensors to the module by fitting each sensor properly in the corresponding holder in the module.
(4) Attach the oxygen sensor cap and put back the sensor module to its former position in the hood. Connect the plug of the sensor module to the main body and calibrate the sensors.

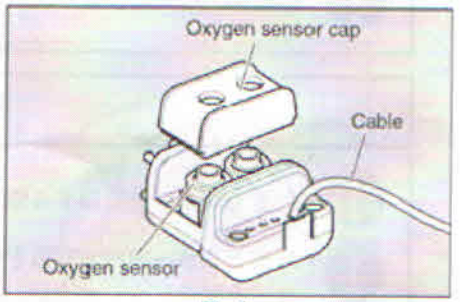


Fig.1

* The unit counts the number of hours that pass after the oxygen sensors are replaced. When the time comes to replace the sensors, a message appears on the screen to remind the user. The counter must be reset after the oxygen sensors are replaced. Otherwise, the message will remain on. Be sure to contact your local Atom representative if you have replaced the oxygen sensors yourself.

* The Oxygen sensor holders should be disposed of in accordance with applicable laws and regulations.

[V-2200, V-2100G]

1. Assembling the oxygen sensor <Fig.2>

(1) Fix the oxygen sensor by screwing it into the oxygen sensor holder supplied with the oxygen sensor.

2. Installing the oxygen sensor to the module <Fig.3>

(1) Turn the oxygen sensor cover of the sensor module counter-clockwise and remove it from sensor module.
(2) Connect the connector from the sensor module to the oxygen sensor.
(3) Insert the oxygen sensor to which the connector is connected into the oxygen sensor mount of the sensor module. Turn the oxygen sensor clockwise to l securely.

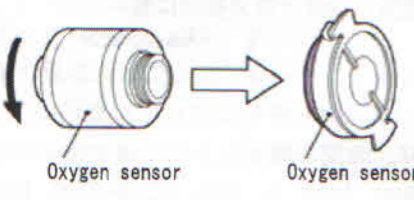


Fig. 2

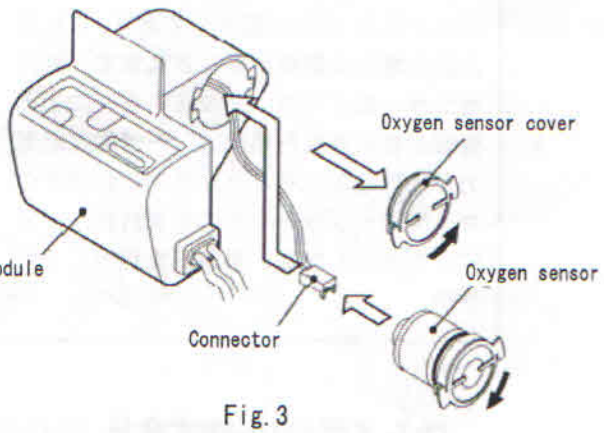


Fig. 3

⚠ WARNING

- As part of daily inspection, check the oxygen sensor for any sign of deterioration or liquid leakage. If any cracks should be found on the external surface, replace it immediately with a new one.
- The oxygen sensor is a sealed device containing a potassium hydroxide electrolyte. The electrolyte may leak out if the sensor should be damaged when dropped, etc. If the electrolyte should touch your skin or clothes, wash it away with copious amounts of water. If it should get in your eye, wash your eye immediately with copious amounts of water and consult the doctor.
- Dispose of a used oxygen sensor in accordance with the appropriate disposal procedure.

⚠ CAUTION

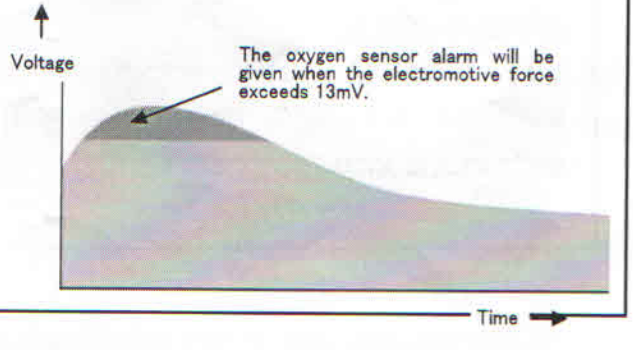
- Replace the two oxygen sensors at the same time.
- If an oxygen sensor alarm remains on, the oxygen sensors may be defective. Replace the old oxygen sensors with new ones.
- Leave the oxygen sensor in the atmosphere for more than one hour after taking it out of its package. The sensor output is not stable immediately after the sensor is taken out of its package and an oxygen sensor alarm may occur.
- Avoid direct sunlight and high temperature when storing the oxygen sensor.
- The life span of the oxygen sensor varies depending on the ambient conditions under which it is used. It is recommended to replace an oxygen sensor when more than one year has passed since it was taken out of its package.
- Avoid mechanical shocks to the oxygen sensors when replacing them.

If the oxygen sensor alarm should be given after the oxygen sensors have been replaced, expose the sensors to the air for at least one hour and then recalibrate them.

The oxygen sensor is designed to react chemically and generate an electric current when exposed to the air. Once the package of the oxygen sensor is opened and the oxygen sensor is brought into contact with the oxygen contained in the air, an electric current starts to flow. Notice that the initial electromotive force increases sharply as soon as the package is opened and then decreases gradually over time.

The upper limit of the electromotive force of the oxygen sensor for the Dual Incu *i* , Incu *i* , Atom Infant Incubator Models V-2100G and V-2200 is set at 13 mV. The oxygen sensor alarm will be given if the electromotive force should exceed this limit.

When the oxygen sensor alarm is given due to a calibration error after the oxygen sensors have been replaced, the electromotive force may have exceeded the upper limit temporarily. Expose the oxygen sensors to the ambient air for at least one hour and then recalibrate them.



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