

**Ambient NOx monitor  
APNA-370**

**Maintenance Manual [eng]**

CODE:GZ0000051255I

# Preface

This manual describes the operation of the Ambient NOx monitor, APNA-370.

Be sure to read this manual before using the product to ensure proper and safe operation of the product. Also safely store the manual so it is readily available whenever necessary.

This is original instructions.

Product specifications and appearance, as well as the contents of this manual are subject to change without notice.

## Warranty and responsibility

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HORIBA, Ltd. warrants that the Product shall be free from defects in material and workmanship and agrees to repair or replace free of charge, at option of HORIBA, Ltd., any malfunctioned or damaged Product attributable to responsibility of HORIBA, Ltd. for a period of one (1) year from the delivery unless otherwise agreed with a written agreement. In any one of the following cases, none of the warranties set forth herein shall be extended;

- Any malfunction or damage attributable to improper operation
- Any malfunction attributable to repair or modification by any person not authorized by HORIBA, Ltd.
- Any malfunction or damage attributable to the use in an environment not specified in this manual
- Any malfunction or damage attributable to violation of the instructions in this manual or operations in the manner not specified in this manual
- Any malfunction or damage attributable to any accidental force including natural disasters such as storms, heavy rain, storm surge, earthquake, lightning, floods, land subsidence, fires, tsunamis, volcanic eruptions.
- Any malfunction or damage attributable to dropping this product
- Any deterioration in appearance attributable to corrosion, rust, and so on
- Replacement of consumables

HORIBA, LTD. SHALL NOT BE LIABLE FOR ANY DAMAGES RESULTING FROM THE USE OF THIS PRODUCT OR INABILITY TO MAKE USE OF THIS PRODUCT, INCLUDING ANY INCORRECTNESS OR INCOMPLETENESS OF DATA, LOSS OF PROFITS OR OPPORTUNITY IN BUSINESS.

## Trademarks

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Company names and brand names are either registered trademarks or trademarks of the respective companies. (R), (TM) symbols may be omitted in this manual.

# Regulations

## EU and UK regulations

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### ■ Conformable standards

This equipment conforms to the following standards:



EMC: EN 61326-1  
Class B, Industrial electromagnetic environment  
Safety: EN 61010-1  
RoHS: EN IEC 63000  
9. Monitoring and control instruments including industrial monitoring and control instruments



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RoHS: BS EN IEC 63000  
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### ■ Installation environment

This product is designed for the following environment.

- Overvoltage category II
- Pollution degree 2

### ■ Information on disposal of electrical and electronic equipment and disposal of batteries and accumulators

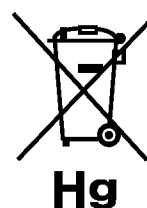
The crossed out wheeled bin symbol with underbar shown on the product or accompanying documents indicates the product requires appropriate treatment, collection and recycle for waste electrical and electronic equipment (WEEE) under the Directive 2012/19/EU, and/or waste batteries and accumulators under the Directive 2006/66/EC in the European Union.

The symbol might be put with one of the chemical symbols below. In this case, it satisfies the requirements of the Directive 2006/66/EC for the object chemical.

This product should not be disposed of as unsorted household waste.

Your correct disposal of WEEE, waste batteries and accumulators will contribute to reducing wasteful consumption of natural resources, and protecting human health and the environment from potential negative effects caused by hazardous substance in products.

Contact your supplier for information on applicable disposal methods.



## FCC rules

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Any changes or modifications not expressly approved by the party responsible for compliance shall void the user's authority to operate the equipment.

### ■ Warning

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications.

Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

## Korea certification

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### ■ B급 기기 (가정용 방송통신기자재)

이 기기는 가정용(B 급) 전자파적합기기로서 주로 가정에서 사용하는 것을 목적으로 하며, 모든 지역에서 사용할 수 있습니다.

# For Your Safety

## Hazard classification and warning symbols

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Warning messages are described in the following manner. Read the messages and follow the instructions carefully.

### ● Hazard classification

 **DANGER**

This indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury. This is to be limited to the most extreme situations.

 **WARNING**

This indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.

 **CAUTION**

This indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury. It may also be used to alert against unsafe practices.

### ● Warning symbols



Description of what should be done, or what should be followed



Description of what should never be done, or what is prohibited

## Safety precautions

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This section provides precautions for using the product safely and correctly and to prevent injury and damage. The terms of DANGER, WARNING, and CAUTION indicate the degree of imminency and hazardous situation. Read the precautions carefully as it contains important safety messages.



### DANGER



#### High voltage

Care should be taken when handling the lamp.

The lighting circuit of the lamp is high-voltage. There is a danger of electric shock, or electrocution at worst.



### WARNING



#### Fire

- For your safety, make sure to unplug the power plug from the electrical outlet when not in use.
- Clear dust on the power plug periodically (a few times a year).

If the power cable is left plugging into the electrical outlet for a long period of time, electrical tracking may occur due to dust and moisture, and it may result in an ignition or a fire.



#### Fire or electric shock

- Do not bundle the power cable during use.
- Do not damage the power cable nor apply an excessive load to it, such as bending and stretching it repeatedly, putting a heavy thing on it.
- If it can not be plugged into an electrical outlet firmly, stop use of the power cable.

It may result in overheating, a fire, an electrical shock, or breakdown.



DO NOT look directly at lighted lamp.

It may damage your eyes.

# Product Handling Information

## Operational precautions

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Use of the product in a manner not specified by the manufacturer may impair the protection provided by the product. And it may also reduce product performance.

Exercise the following precautions:

- Make sure to use the provided power cable to power this product.
- This instruction manual describes how to replace APNA-370 consumable parts.  
The instrument inside is hot or high-voltage partly. Before opening the cover, make sure to plug off the main power cable and wait 1 hour or longer until the inside cools down.  
For the safety, the works described in this book should be operated only by the service engineers who have the knowledge and skills necessary for APNA-370 maintenance.

## Contact for maintenance

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Manufacturer: HORIBA, Ltd.  
2 Miyanohigashi, Kisshoin Minami-ku, Kyoto 601-8510 Japan

## Disposal of the product

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The lamp in this product contains 15 mg of mercury.  
When disposing of the product, follow the related laws and/or regulations of your country.

# Manual Information

## Description in this manual

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**Note**

This interprets the necessary points for correct operation and notifies the important points for handling the product.

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**Reference**

This indicates the part where to refer for information.

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**Tip**

This indicates reference information.

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# 1 List of Consumables and Replacement Parts

The following table shows the consumable and replacement parts of APNA-370.

## Note

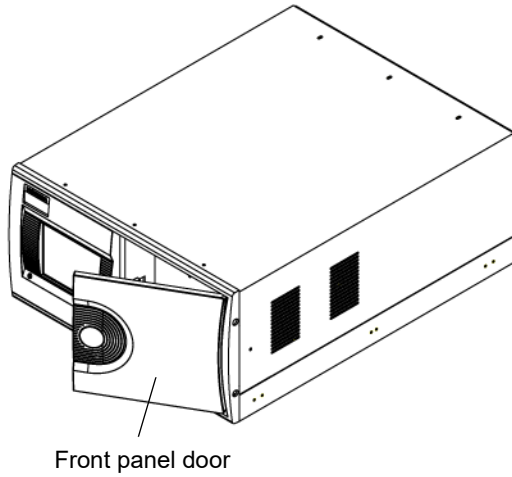
- The replacement periods shown below are given as recommended and do not assure any performance. The replacement periods of consumables may become shorter depending upon the installation environment and operating conditions.
- In order to maintain the accuracy, it is recommended that periodical maintenance and checks be performed when consumables are replaced. For information on maintenance and checks, etc., contact us.
- Consumable or replacement parts no longer required should be disposed of as industrial waste.
- Perform zero and span calibration after parts replacement.

No.	Name	Specification	Qty.	Part No.	Replacement period	Refer to...
1	Filter element	PA-10L 54 mm in diameter × (t) 0.5 mm 24 pieces per package	1	3200043947	2 weeks	page 5
2	O-ring	JISB2401 G70 (FKM Teflon-coated)	1	3200043785	1 year	page 5
3	Filter packing	FKM	1	3200044273	1 year	page 5
4	Diaphragm assembly	EPDM for GS and GD series, vacuum	2	3200602390	1 year	page 7
5	DO unit	For deozone	1	3200043513	1 year	page 9
6	UV lamp unit	(ozonizer unit)	1	3014038054	1 year	page 10
7	UV liner	263 × 145 × 0.8 (t) mm, PTFE	1	3200044415	1 year	page 10
8	Dehumidifier unit	For APNA-370	1	3200044461	1 year	page 12
9	Catalyst tube	For NOx converter	1	3014056464	1 year	page 13
10	Air filter	0.3 μm	1	3200044257	1 year	page 14
11	Scrubber	BAA-050 (activated alumina)	1	3014061530	1 year	page 15
12	Silica gel	Containing 500 g	1	3200044017	1 year	page 16
13	Pump unit	GD-6EH-10A	1	3200597519	2 years	page 18
		GD-6EH-23A	1	3200597543	2 years	
14	Solenoid valve	WTA-2K-MFF-1	3	3014035610	3 years	page 19
15	LCD unit	For APXX	1	3014035613	3 years	---
16	Battery	CR2032	1	3200043671	3 years	page 20

\* Contact us for LCD unit replacement.

## 2 Preparations

1. Open the front panel door and turn OFF the power switch.



When the front panel door is open

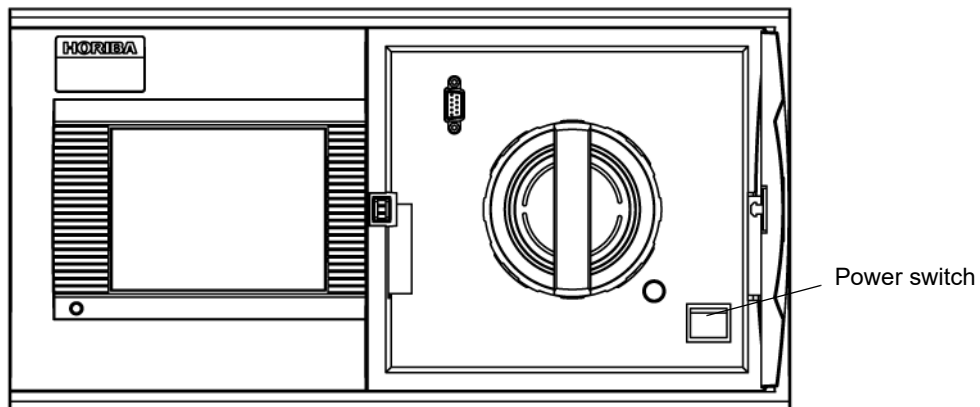


Fig. 1 Front panel

2. Unplug the power cable from the rear panel.

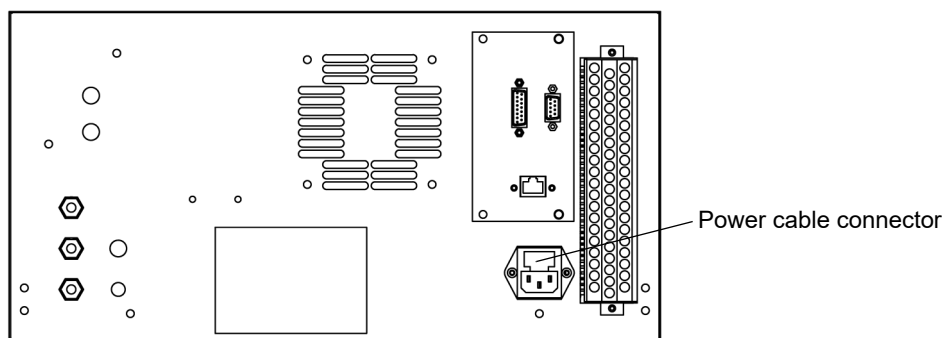
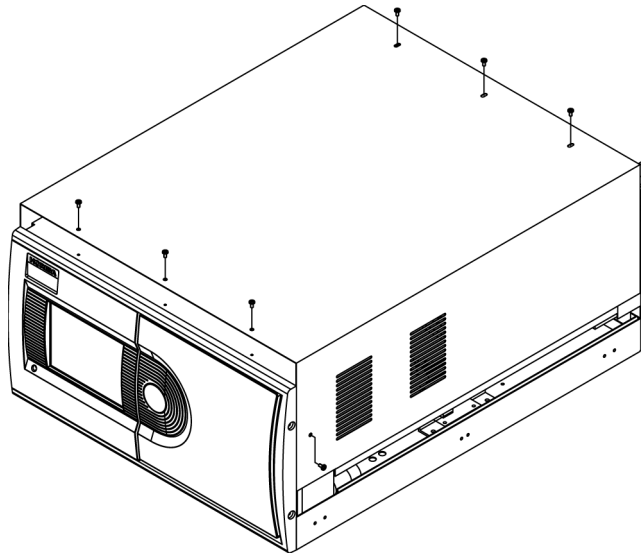


Fig. 2 Rear panel

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3. Wait 1 hour or longer until the instrument cools down.
  4. Remove the 8 screws (M3) on the cover (shown below) and open the cover.



**Fig. 3 Removing the cover**

### 3 Component Arrangement

The following figure shows the component arrangement of APNA-370.

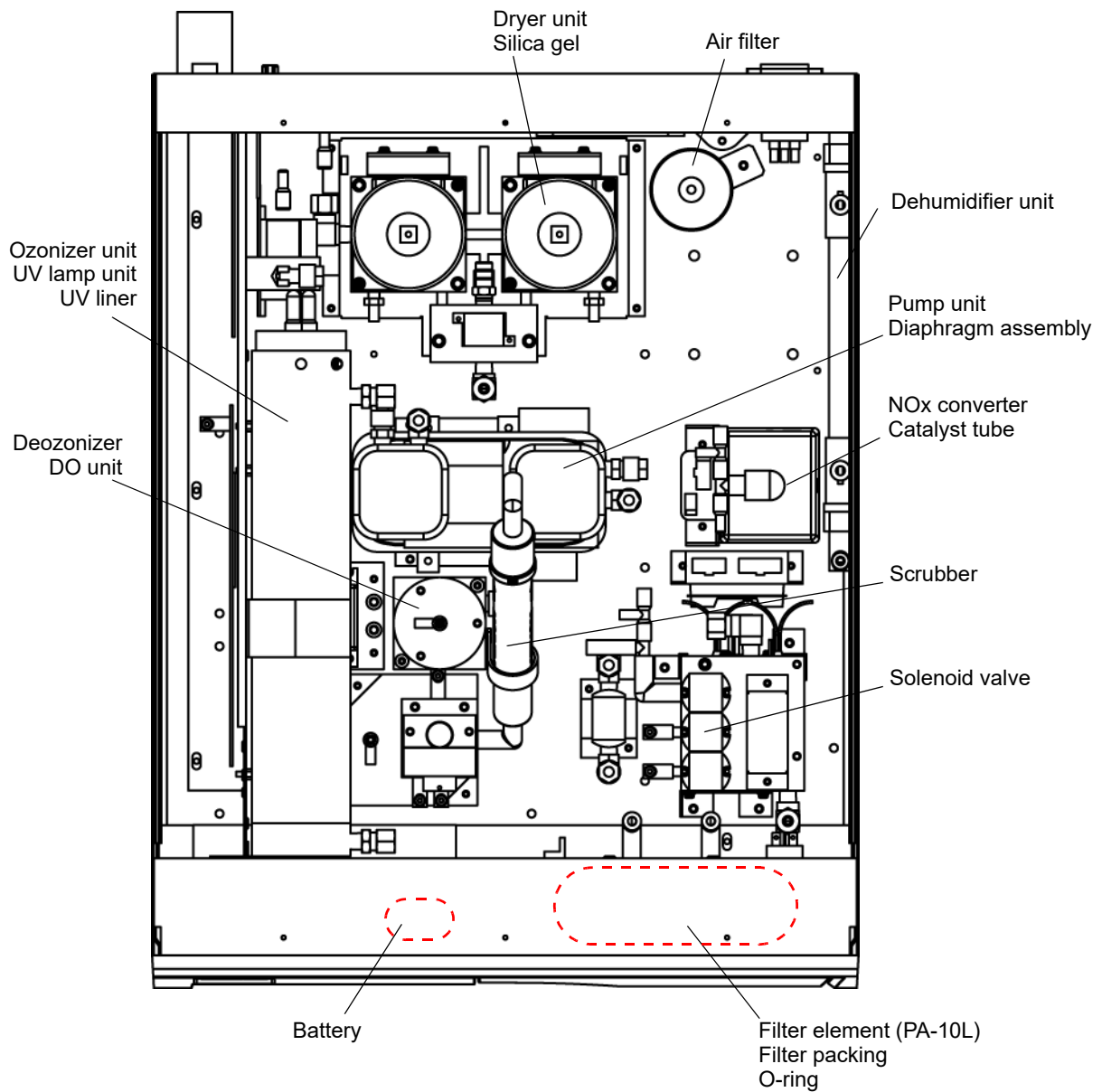


Fig. 4 Component arrangement

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## 4 Parts Replacement

### 4.1 Filter element (PA-10L), filter packing, O-ring

The filter element (PA-10L) is used to purify sample gas and protect the analyzer.

If the filter element is used over a long period, the flow rate of the sample decreases.

And the filter packing or O-ring will be deteriorated with time, and it may cause troubles, such as insufficient sample flow rates.

We recommend that you replace the filter element (PA-10L), filter packing and O-ring periodically. This procedure is the same as mentioned in the APNA-370 operation manual.

#### Recommended frequency of maintenance

- Filter element:  
Approximately every 2 weeks (depending upon the sample conditions)
- Filter packing, O-ring:  
Approximately every 1 year (depending upon the sample conditions)

#### Procedure

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**Note**

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Before doing the procedure below, make sure to power OFF the instrument referring to " 2 Preparations " (page 2).

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1. Push the PUSH-marked area on the front panel door to open the door.

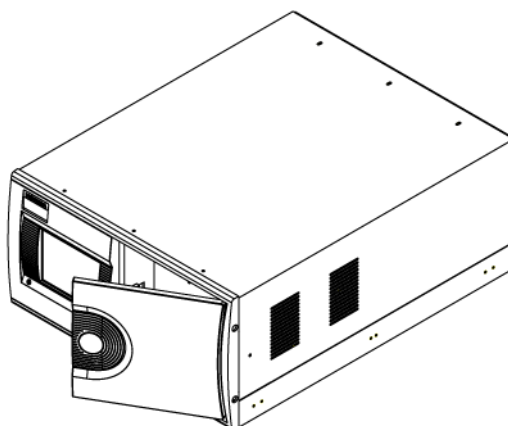
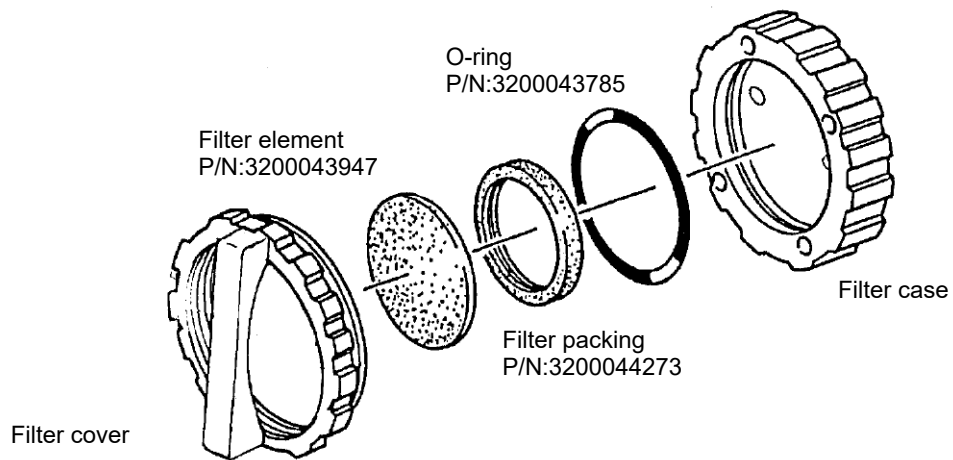
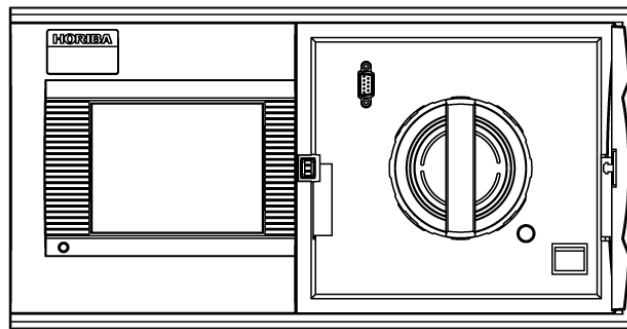


Fig. 5 Front panel door

2. Turn the filter cover leftward and then pull it out.
3. Remove the filter packing.

Front panel (with the door opened)



**Fig. 6 Exploded view of filter element**

- 4. Replace the filter element, filter packing, or O-ring with new ones, and then put them back together.**
- 5. Turn the filter cover rightward to install it.**
- 6. Close the front panel door.**



## 4.2 Diaphragm assembly

The diaphragm or valve will be deteriorated with time, and it may cause troubles, such as insufficient flow rates.

We recommend that you replace the diaphragm and valve periodically.

### Recommended frequency of maintenance

Approximately every 1 year (depending upon the sample conditions)

### Procedure

#### Note

The surface of the pump is very hot.

Before doing the procedure below, make sure to power OFF the instrument referring to " 2 Preparations " (page 2) and wait until the pump cools down.

1. Remove the 4 fixing screws on the each pump head.
2. Remove the diaphragm with the special wrench provided with the diaphragm assembly.

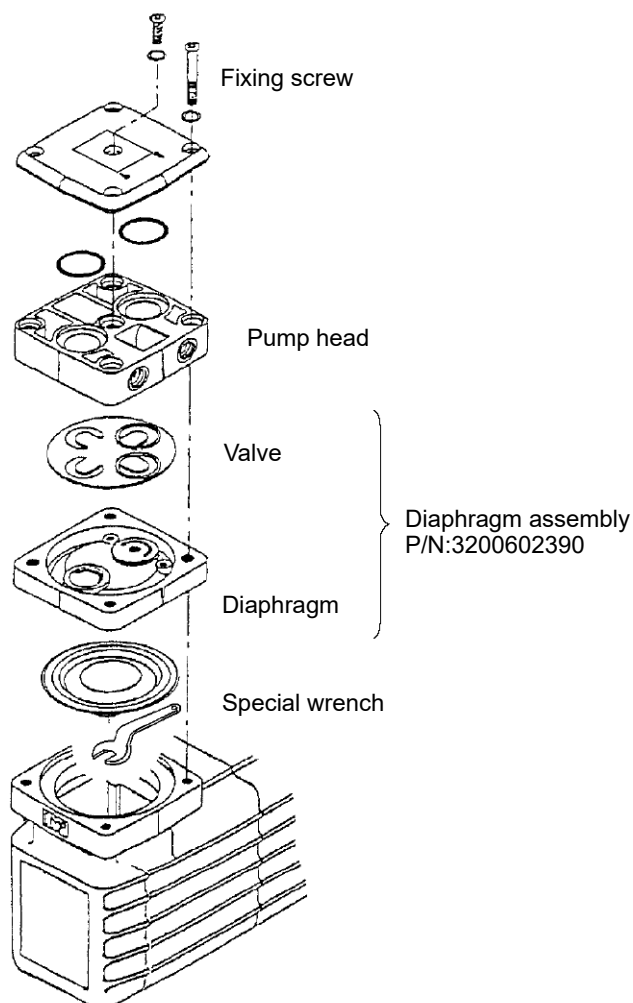


Fig. 7 Diaphragm

3. Replace the valve with new one.
4. Mount a new diaphragm and valve, and use the special wrench to fix it.

**Note**

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Fix the diaphragm assembly securely, or it may cause the pump to malfunction.

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5. Making sure that the directions of the valve and pump head are correct, put them back together.

## 4.3 DO unit

The built-in deozone is used to convert ozone, included in exhaust gas after measurement, into harmless gases.

The catalyst in the deozone will be deteriorated with time, and it may cause toxic ozone to be discharged. And the continued use of deteriorated catalyst hastens deterioration of the pump.

Replace the DO unit for the deozone, which includes a packing, filter element, and DO catalyst, periodically.

### Recommended frequency of maintenance

Approximately every 1 year (depending upon the sample conditions)

#### Note

If the installation location is in a traffic-congested area or tunnel, make the frequency of maintenance shorter because a catalyst may deteriorate quickly.

### Procedure

#### Note

Before doing the procedure below, make sure to power OFF the instrument referring to " 2 Preparations " (page 2).

1. Unscrew the 3 fixing screws on the top of the deozone to remove the lid.
2. Remove the DO unit (packing, filter element, DO catalyst).

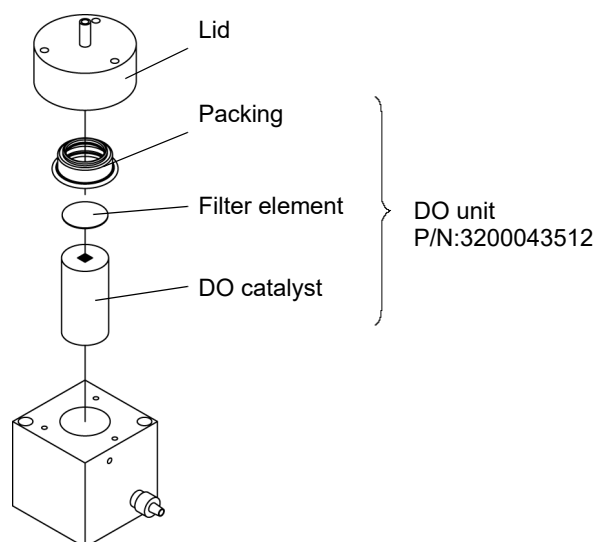


Fig. 8 Deozone

3. Attach a new DO unit (packing, filter element, DO catalyst).
4. Put the lid back on and tighten the 3 fixing screws.

## 4.4 UV lamp unit, UV liner

The built-in ozonizer is used to generate ozone gas.

The brightness of the UV lamp in the ozonizer will decrease with time, and it may cause ozone generation to be insufficient to meet demand.

We recommend that you replace the UV lamp unit and UV liner periodically.



### DANGER



#### High voltage

Care should be taken when handling the lamp.

The lighting circuit of the lamp is high-voltage. There is a danger of electric shock, or electrocution at worst.



### WARNING



DO NOT look directly at lighted lamp.

It may damage your eyes.

### Recommended frequency of maintenance

Approximately every 1 year (depending upon the sample conditions)

### Procedure

#### Note

Before doing the procedure below, make sure to power OFF the instrument referring to " 2 Preparations " (page 2).

1. Remove the ozonizer piping and UV lamp connector.
2. Unscrew the screw on the fixing plate of the ozonizer and the screw that fixes the ozonizer.
3. Unscrew the screw A, which fixes the UV lamp, and pull out the UV lamp slowly from the ozonizer.
4. Remove the UV liner and O-ring from the ozonizer body inside.

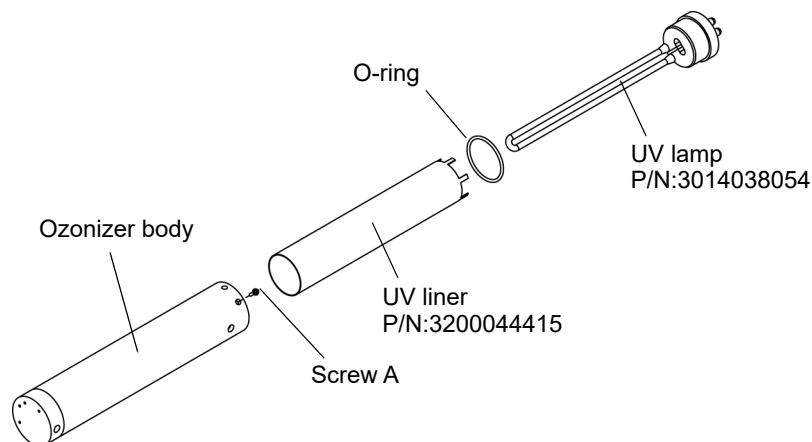


Fig. 9 UV unit

5. Insert a new UV liner into the ozonizer body making sure that the direction is correct.

- 
6. If something is stuck in the O-ring groove, remove it with a clean, dry, and soft cloth. You can use put a drop of alcohol on the cloth to remove a persistent dirt.
  7. Attach a new O-ring on the ozonizer inside.
  8. Insert a new UV lamp and fix it with screw A.
  9. Reassemble the ozonizer unit and reconnect the piping and connector in the reverse procedure.

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**Note**

- Tighten the joints firmly.
  - The lamp contains mercury. Take care not to damage the lamp and release the internal mercury.
-

## 4.5 Dehumidifier unit

The built-in dehumidifier is used to remove water from sample gas. The unit will be deteriorated with time, and it may cause measurement errors. We recommend that you replace the dehumidifier unit periodically.

### Recommended frequency of maintenance

Approximately every 1 year (depending upon the sample conditions)

### Procedure

#### Note

Before doing the procedure below, make sure to power OFF the instrument referring to " 2 Preparations " (page 2).

1. Remove the piping (4 joints) from the dehumidifier unit.
2. Remove the joints on the both ends of the unit (see below).
3. The dehumidifier unit is fixed with O-rings. Pull out the unit and replace it with a new one.

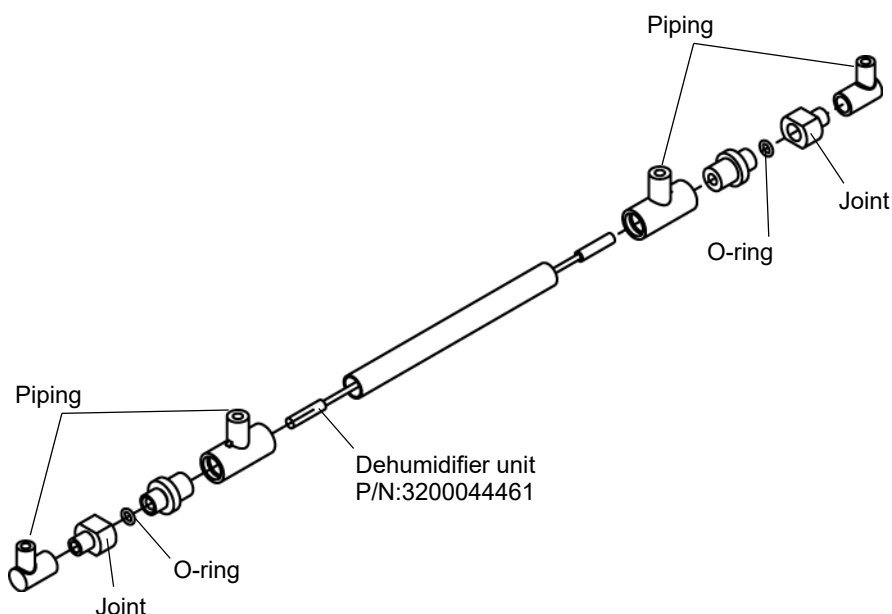


Fig. 10 Dehumidifier unit

4. Reassemble the dehumidifier and reconnect the piping in the reverse procedure.

#### Note

The dehumidifier is a flexible tube. Do not twist or strain it too tightly, or it may be damaged.

## 4.6 Catalyst tube

The performance of the catalyst in the NO<sub>x</sub> converter will degrade with time, and it may reduce converter efficiency to cause the NO<sub>2</sub> readings to be lower than actual values. We recommend that you replace the Catalyst tube periodically.

### Recommended frequency of maintenance

Approximately every 1 year (depending upon the sample conditions)

### Procedure

#### Note

The surface and inside of the catalyst unit in the NO<sub>x</sub> converter are hot. Before doing the procedure below, make sure to power OFF the instrument referring to " 2 Preparations " (page 2) and wait until APNA-370 cools down.

1. Remove the wiring connector from the NO<sub>x</sub> converter, and release the hose clamps to remove the upper and lower rubber joints.
2. Unscrew the fixing screw of the catalyst unit.
3. Release the screw fixing the catalyst tube.

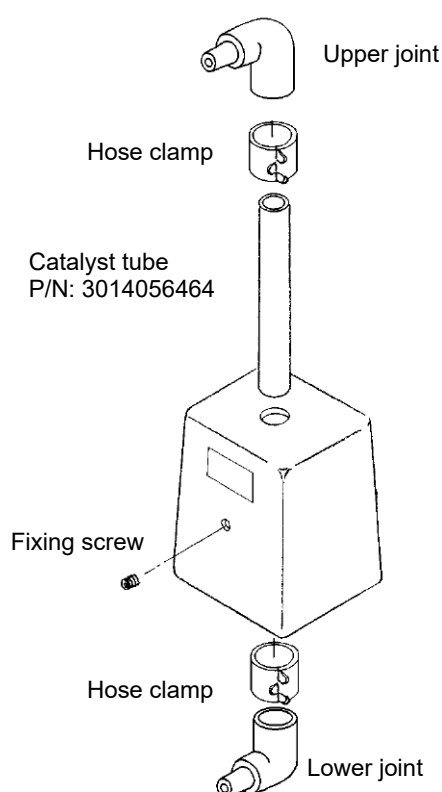


Fig. 11 NO<sub>x</sub> converter

4. Pull out the catalyst tube, and replace it with a new one.
5. Tighten the fixing screw to fix the catalyst unit tightly.
6. Reassemble the NO<sub>x</sub> converter, and attach the upper and lower rubber joints, and connect the wiring connector in the reverse procedure.

## 4.7 Air filter

The air filter is used to purify gas for ozonization, and protect the analyzer.

If the air filter is used over a long period, clogging of the filter will reduce pump performance or dryer unit efficiency and it may cause APNA-370 to malfunction at worst.

We recommend that you replace the air filter periodically.

### Recommended frequency of maintenance

Approximately every 1 year (depending upon the sample conditions)

### Procedure

#### Note

Before doing the procedure below, make sure to power OFF the instrument referring to " 2 Preparations " (page 2).

1. Remove the piping.
2. Unscrew the screw fixing the air filter, and remove the air filter.

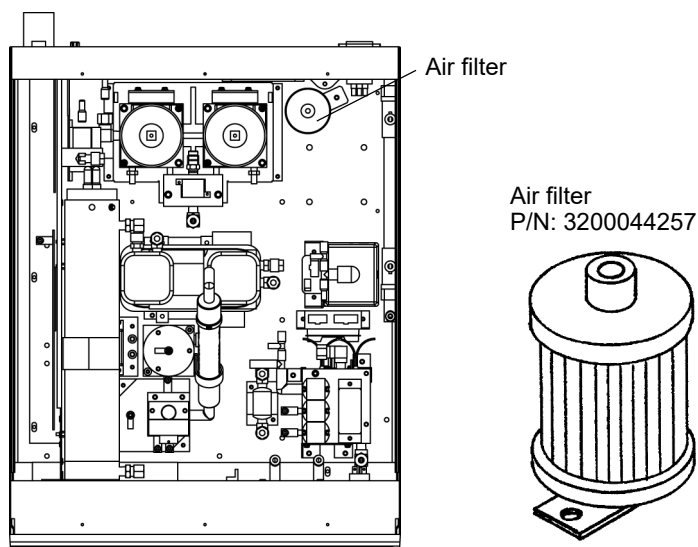


Fig. 12 Air filter

3. Mount a new air filter in the reverse procedure.



## 4.8 Scrubber

The built-up scrubber is used to protect the pump by removing impurities from exhaust gas, and to create purge gas for dehumidifier unit.

If the scrubber is used over a long period, the performance will degrade and it may cause interference to measurement to increase.

We recommend that you replace the scrubber periodically.

### Recommended frequency of maintenance

Approximately every 1 year (depending upon the sample conditions)

### Procedure

#### Note

Before doing the procedure below, make sure to power OFF the instrument referring to " 2 Preparations " (page 2).

1. Remove the upper and lower joints of the scrubber.
2. Unscrew the screw fixing the scrubber.

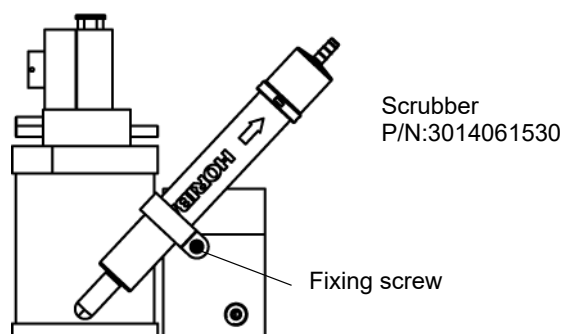


Fig. 13 Scrubber

3. Replace the scrubber with a new one making sure that the direction is correct.
4. Reassemble the scrubber and reconnect the piping in the reverse procedure.

## 4.9 Silica gel

If the dryer unit is used over a long period, the dehumidification performance of the silica gel in the dryer unit will degrade and it may ozone generation to change and interference to measurement to increase.

We recommend that you replace the silica gel periodically.

### Recommended frequency of maintenance

Approximately every 1 year (depending upon the sample conditions)

### Procedure

**Note**

The surface of the dryer unit is hot.

Before doing the procedure below, make sure to power OFF the instrument referring to " 2 Preparations " (page 2) and wait until the dryer unit cools down.

1. Release the 2 screws of the dryer unit and remove the silica gel container from the base.

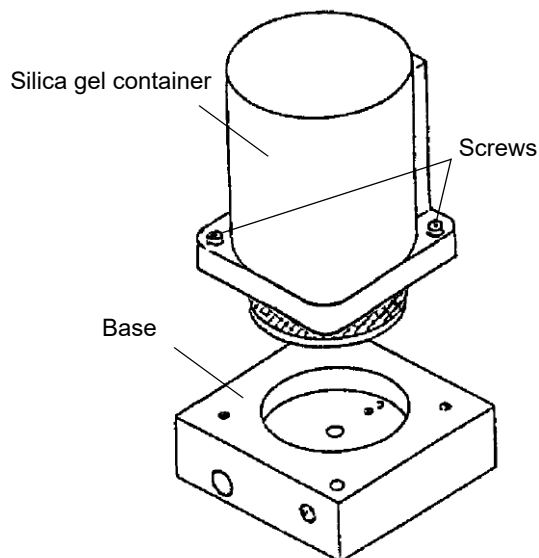


Fig. 14 Silica gel container

2. Turn the container upside down, and then remove the large filter, large packing, small packing, and small filter.

3. Replace the silica gel inside the container with new one.  
Pour silica gel into the outer container up to the highest projecting part, and into the inner container up to 1 or 2 mm lower than the top (see below).

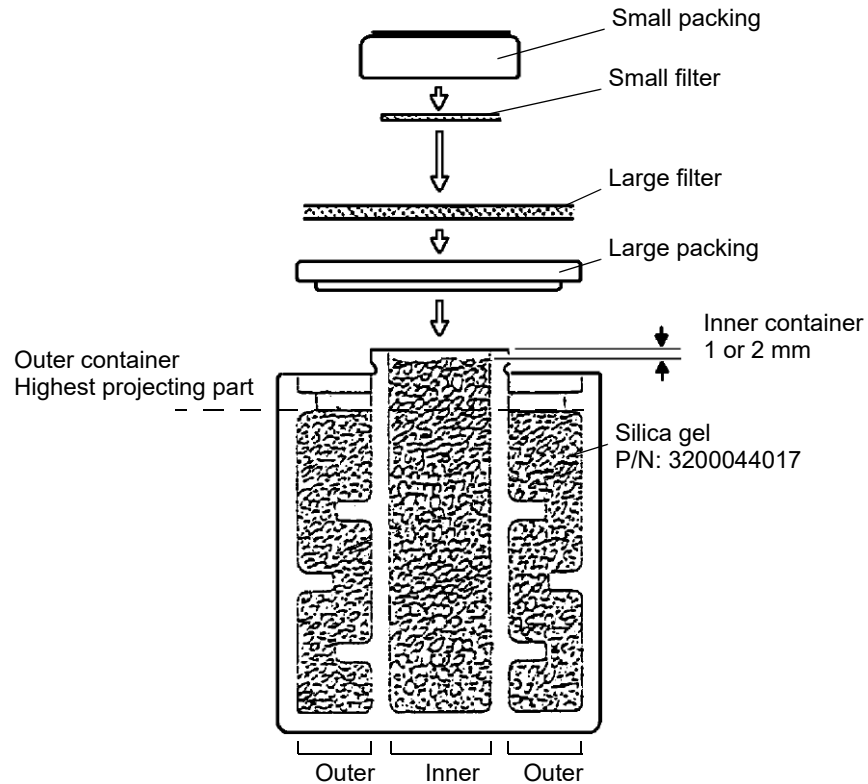


Fig. 15 Silica gel container (cross-sectional view)

4. Insert the large filter into the large packing, and cover the outer container with them securely.
5. Insert the small filter into the small packing, and cover the inner container with them securely.
6. Fix the silica gel container to the base.

## 4.10 Pump unit

The pumps will be deteriorated with time, and it may change sample flow rates. We recommend that you replace the pumps periodically.

### Recommended frequency of maintenance

Approximately every 2 years (depending upon the sample conditions)

### Procedure

#### Note

The surface of the pump is very hot.

Before doing the procedure below, make sure to power OFF the instrument referring to " 2 Preparations " (page 2) and wait until the pump cools down.

1. Disconnect the power connector of the pump.
2. Remove the joints attached to the pump.
3. Unscrew the 4 screws fixing the pump, and remove the pump.
4. Turn the upper part (A) of a new pump unit at a right angle, as shown below, and check the position marks (B) on the upper and lower parts of the pump head. If the direction is correct, the position marks meet each other.

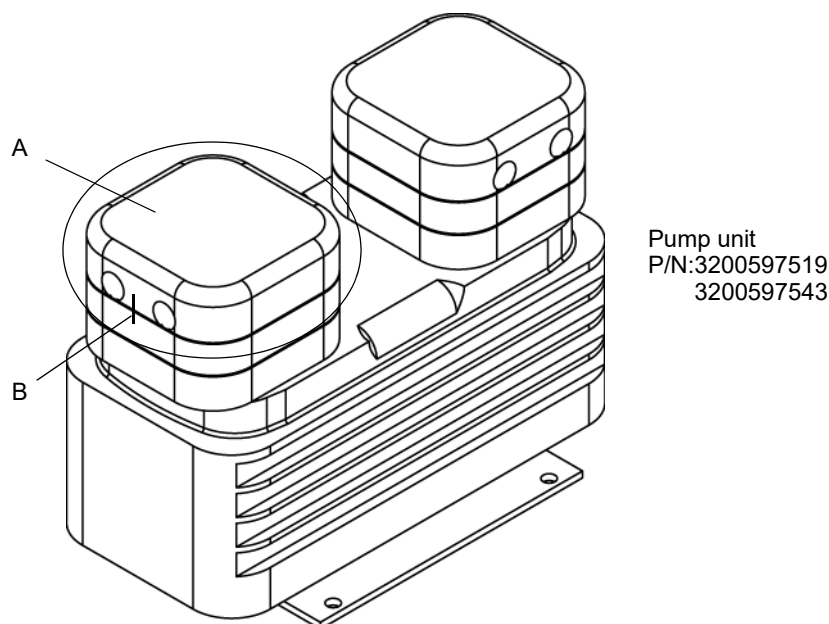


Fig. 16 Pump unit

5. Mount a new pump unit in the reverse procedure.

#### Note

When connecting the joints, make sure to use sealing tapes to wind them.

## 4.11 Solenoid valve

The built-in solenoid valves are used to switch gas lines to be introduced to the detector. The solenoid valves will be deteriorated with time, and it may cause serious troubles affecting measured values, such as insufficient airtight, or malfunction.

We recommend that you replace the solenoid valves periodically.

### Recommended frequency of maintenance

Approximately every 3 years (depending upon the sample conditions)

### Procedure

#### Note

Before doing the procedure below, make sure to power OFF the instrument referring to " 2 Preparations " (page 2).

1. There are 3 solenoid valves on the detector block. Disconnect the connector of the solenoid valve to be replaced.
2. Unscrew the fixing screw of the solenoid valve and remove the valve.

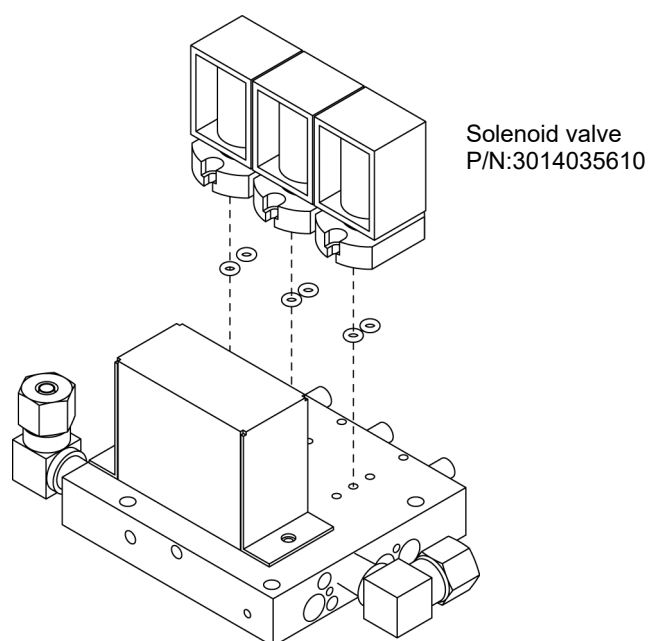


Fig. 17 Solenoid valves

3. Mount a new valve and O-rings on the block, making sure that the valve direction is correct.

## 4.12 Battery

The battery for clock/memory backup will be deteriorated with time, and the voltage will be lowered.

### Recommended frequency of maintenance

Approximately every 3 years (depending upon the installation conditions) or when the BATT alarm occurs

### Procedure

#### Note

Before doing the procedure below, make sure to power OFF the instrument referring to " 2 Preparations " (page 2).

1. The battery is attached on the printed board that is located on the front panel inside (see below). Replace the battery with a new one.

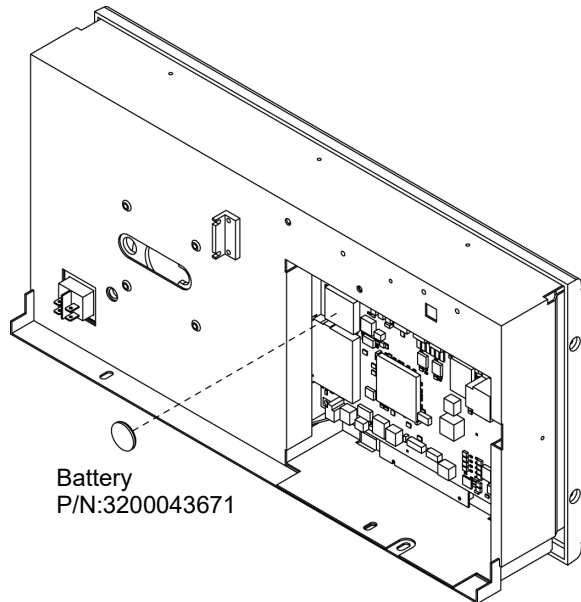


Fig. 18 Battery

2. After powering ON the instrument, adjust the internal clock (see " 5.2 Readjusting the internal clock " (page 22)).

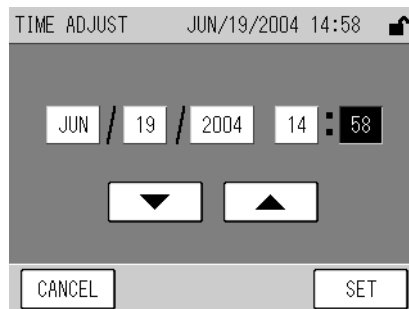


Fig. 19 TIME ADJUST screen

## 5 Operations after Part Replacement

### 5.1 Resetting the maintenance status

To use the maintenance status as an indication for the next replacement, reset the operation hours for the replaced parts on the MAINTENANCE STATUS screen.

1. After powering ON the instrument, press the [MAINTENANCE STATUS] button on the MENU/MAINTENANCE screen. The MAINTENANCE STATUS screen will be displayed.

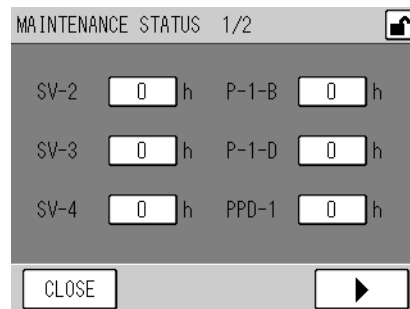


Fig. 20 MAINTENANCE STATUS screen

The operating hours of consumable parts are displayed.

For the symbols, see the flow sheet at the end of this document.

Use P-1-B for the pump itself and P-1-D for the pump diaphragm.

2. Press the button of the operating hour to be changed (reset). The MAINTENANCE STATUS screen for setting will be displayed.

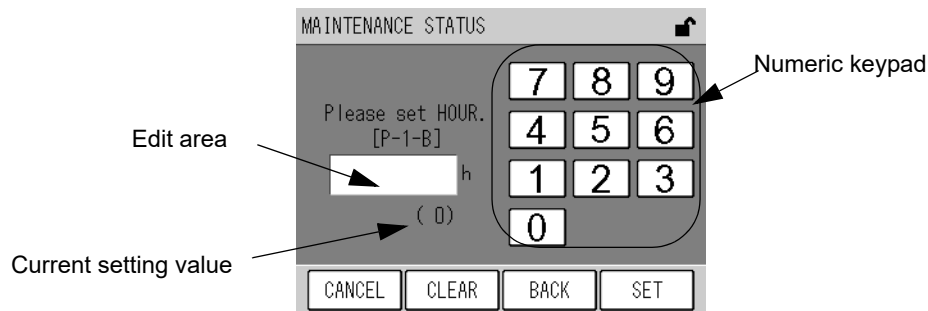


Fig. 21 MAINTENANCE STATUS screen for setting

Enter a value via the numeric keypad.

The keys allow you to perform the following operations.

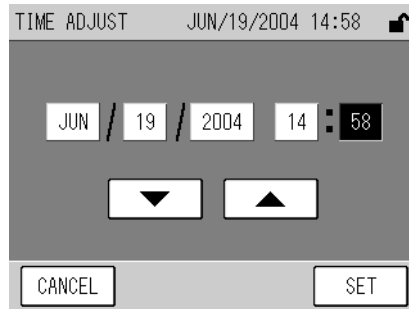
- [CANCEL]: Returns to the MAINTENANCE STATUS screen without changing the time.
- [CLEAR]: Deletes the value entered in the edit area.
- [BACK]: Deletes the just entered figure (1-digit).
- [SET]: Returns to the MAINTENANCE STATUS screen with the time changed.

3. Enter a desired value (0 for resetting) via the numeric keypad.
4. Press the [SET] key. The operating hours will be changed (reset) and the MAINTENANCE STATUS screen is displayed again.
5. Press the [CLOSE] key on the MAINTENANCE STATUS screen. The MENU/MAINTENANCE screen will be displayed again.

## 5.2 Readjusting the internal clock

Readjust the internal clock after battery replacement.

1. After powering ON the instrument, press the [TIME ADJUST] button on the MENU/SETTING screen. The TIME ADJUST screen will be displayed.



**Fig. 22 TIME ADJUST screen**

The current time setting is always displayed first, in a format of year, month, day, hour, and minute as respective buttons.

To change a value, press the corresponding button, and then press either of the following buttons to increase or decrease the value.

- [▲]: Increases the value.
- [▼]: Decreases the value.

The keys allow you to perform the following operations.

- [CANCEL]: Returns to the MENU/SETTING screen without changing the settings.
- [SET]: Returns to the MENU/SETTING screen with the settings changed.

2. Press a value button to be changed to select the item, and adjust the current time with the [▲] and [▼] buttons.
3. Press the [SET] key. The current time setting will be changed and the MENU/SETTING screen will be displayed again.

### Note

- If you press the [CANCEL] button before completing the setting, the time prior to the change will apply.
- The time cannot be set on a second basis. Pressing the [SET] key will automatically set the time to 00 second.
- If you change the time to any unrealistic date or time and press the [SET] key, the realistic date or time nearest to the set value will apply automatically.
- Pressing the [SET] key will delete the internal data (e.g., average) having the creation time later than the set time.



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## 6 Drawings

Flow sheet: V1024299B (GZ9100359973B)



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