

# **WATO EX-55Pro/65Pro Anesthesia Machine**

## **Service Manual**

# 6 Device Maintenance

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## WARNING

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- When it comes to test and maintain the equipment, make sure that the patient is disconnected from the equipment.
  - The equipment may have been used on patients carrying infectious diseases. Before testing or maintaining the equipment, wear sterile rubber gloves to reduce the risk of being infected.
  - When the equipment to be maintained contains blood or other secretion, clean, disinfect and sterilize the equipment by strictly
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## 6.1 Maintenance Overview

Physical check, disposables replacement, and performance check shall be conducted at regular intervals according to the periods listed in the following table. The factory will bear no liability if some parts are damaged or lost because the disposables are not replaced within the suggested period.

## 6.2 Maintenance Period

Maintenance Operation	After Each Maintenance	Every 12 Months
Preoperative check: 1. Check the Mechanical Ventilation Mode 2. Breathing System Leak Test in Mechanical Ventilation Mode 3. Breathing System Leak Test in Manual Ventilation Mode 4. Check the Sensor Zero Point 5. Check the Flow Sensor Accuracy 6. Check the Pressure Sensor Accuracy 7. Check the Electronic Flowmeter Accuracy		●
System check		●
Disposables replacement		●
Battery maintenance and replacement		
Function test after maintenance		●
Test before operation	●	●

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## 6.3 System Check

1. Ensure that the device is intact.
2. Ensure that the breathing system and absorbent canister are well connected.
3. Ensure that the vaporizer is filled with a defined amount of anesthetic agent.
4. Confirm the test list before additional operations.
5. Confirm the additional standby cylinder wrench.
6. Ensure that the AGSS transfer hose is not damaged. Drain the water build-up.
7. Ensure that the AC power cable is not damaged.

## 6.4 Maintenance Package Parts

To ensure the long-term reliability and stability of the anesthesia machine, periodical maintenance of the equipment and replacement of its parts must be performed by authorized service personnel. For details about parts replacement, refer to **9 Repair and Disassembly**. Periodical parts replacement can be carried out every year. To distinguish the clients' requirements, there are three kinds of one-year service packages: one-year maintenance package, one-year expansion package, and one-year complete package. Make records of the parts that have been replaced before the periodical replacement.

### NOTE

- These schedules are the minimum frequency based on typical usage of 2000 hours per year. You should service the equipment more frequently if you use it more than the typical yearly usage.
- To avoid equipment damage or personal injury, replace the parts which need to be replaced periodically even if they are not worn or damaged when the due date arrives.

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### 6.4.1 One-year Replaceable Parts

One-year replaceable parts vary depending on patient circuit configuration. Non-circuit part and circuit part are described separately. For non-circuit part, because it is the same part for different machine confirmations, there is no difference in the list of replaceable parts. For circuit part, it differs subject to machine configuration.

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**The code of one-year service packages:**

115-034694-00 one-year maintenance package (0625/Pre-pak)  
115-034696-00 one-year expansion package (0625/Pre-pak)  
115-034698-00 one-year complete package (0625/Pre-pak)  
115-021121-00 one-year maintenance package (0616/0625)  
115-021122-00 one-year expansion package (0616/0625)  
115-021123-00 one-year complete package (0616/0625)

S/N	P/N	Description	Qty	Usage	Note
1	082-000711-00	O-ring 10X1.8, viton, A70	1	Airway pressure gauge	
2	M6M-010031---	O-ring 27X1.5, silicone, A50, red	2	Valve cover	
3	M6M-010033---	O-ring 20X1.5, silicone, A50, red	2	Valve body	
4	115-001366-00	Flow sensor assembly	1	Breathing circuit	one-year complete package
5	0611-10-45654	Sensor Oxygen MedicelMOX-2	1	Breathing circuit	one-year complete package
6	M6M-010038---	O-ring 23.47X2.95, silicone, A50, red	1	Water collection cup	
7	040-000358-00	Bellows, neoprene, 8 folds	1	Bellows dome assembly	one-year expansion package or one-year complete package
8	M6M-010071---	O-ring 20.29X2.62, silicone, A50, red	1	Top cover 2 assembly	
9	0601-20-69771	PoP-off valve rubber pad (Die MR69771)	1	PoP-off valve rubber pad	
10	049-000243-00	Bellows sealing cushion	1	Bellows dome assembly	
11	0601-20-78840	BYPASS large sealing cushion (Die MR78840)	1	BYPASS large sealing cushion	

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12	0601-20-78842	Sodalime canister sealing part (Die MR78842)	1	Bypass lower part assembly	
13	049-000154-00	Outlet sealing cushion (0601)	1	Bypass lower part assembly	
14	082-000162-00	O-ring 14.00X2.65, silicone, A50, black	4	Vaporizer support rack	
15	M6M-010063---	O-ring 4.7X1.8, viton, A50, black	4	Pressure sampling port	
16	M6M-010058---	O-ring 16X2, viton, A50, black	4	Drive gas connector(2) Without stop bag arm (2)	
16	082-000673-00	O-ring 15.54X2.62, viton, A70	2	With stop bag arm (2)	
17	M6M-010051---	O-ring 18X2.5, viton, A50, brown	1	Sodalime canister support rack	
18	M6M-010006---	O-ring 8.5X2.0, viton, black	2	Fresh gas/ ACGO	

Note: The sealing rings in the above table are not suitable for Pre-pak circuit.

