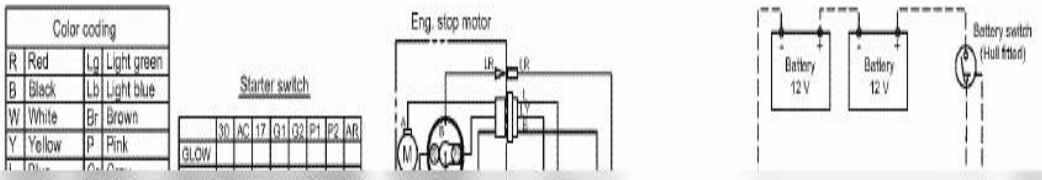
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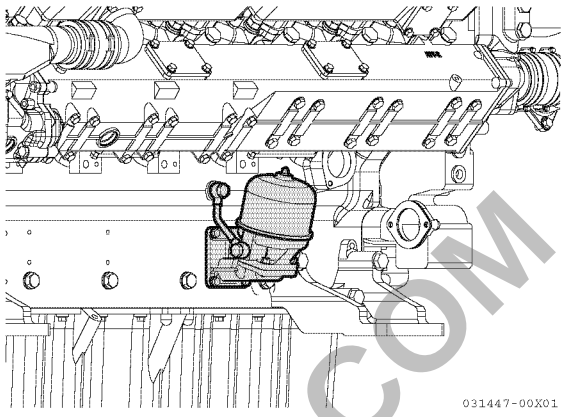
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■ Cleaning of lubricating oil bypass filter

The lubricating oil system is equipped with a lubricating oil bypass filter.



NOTICE

Stop the engine before cleaning the bypass filter.
Do not disassemble while the engine is running.

Disassembly and cleaning

Service period	1st time	50 h
	2nd time and after	Every 250 hours

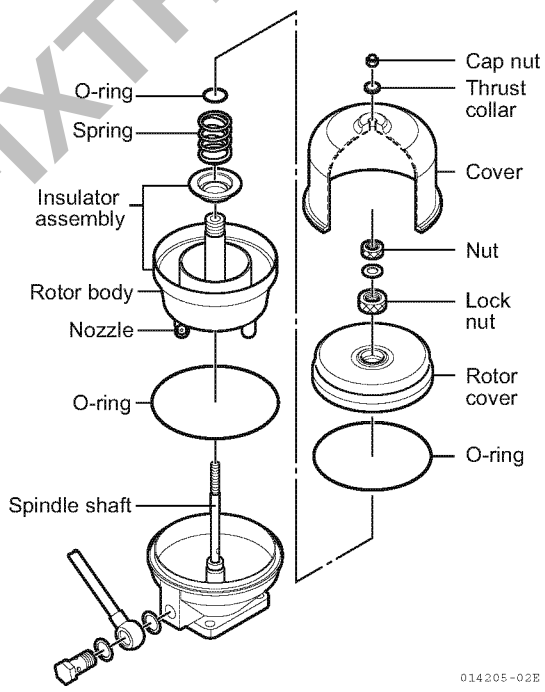
● Disassembly

Disassemble and clean the lubricating oil bypass filter according to the following procedures.

1. Loosen the cap nut and then remove the cover.
2. Loosen the nut and remove the rotor body.
3. Loosen the lock nut and remove the rotor cover, then remove the insulator and spring.
4. Remove sludge inside the rotor with a spatula.

NOTICE

Completely remove sludge. Otherwise, residual sludge may cause an unbalance in rotation, resulting in damage to the bearing of the spindle shaft.



5. Check for clogging of the nozzle and clean the nozzle with a brass wire brush.
6. Check each part. If any damage or excessive wear is found, replace the new part.

● Assembly

Assemble the filter in the sequence reverse to disassembly while observing the following precautions.

1. Install the insulator spring into the rotor body and cover the rotor body with the rotor cover.

NOTICE

Ensure that the rotor and rotor cover fit well. When the fitting is not aligned, the rotor becomes unbalanced and it may damage the equipment.

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TROUBLESHOOTING AND COUNTERMEASURES

There are many causes for abnormalities and defects, and they often play together.
Pay attention to changes in the operating performance, and refer to the maintenance records, servicing dates and history of part replacement. Locate the cause early and take the proper countermeasures.

- **Starting failure**
  - **Flywheel does not turn**
  - **Flywheel turns, but ignition does not occur**
- **Rotational speed drops spontaneously**
- **Lubricating oil pressure drops below the specified pressure**
- **Coolant temperature is too high**
- **Engine stops suddenly**
- **Exhaust temperatures of all the cylinders is too high**
- **Bad color of exhaust gas**
- **Unusual sounds (e.g. knocking) occur during operation**

NOTICE

- Although some failures can be solved by the user, others can not. For failures that require disassembly for repair and servicing or those that are not covered in this chapter, consult your YANMAR dealer or distributor.
- If you decide after inspection that you can continue using the engine, return to port at a slow speed.
  At port, do or request the necessary repairs by consult your YANMAR dealer or distributor.
  If you cannot make a decision yourself, consult your YANMAR dealer or distributor.
- Do not operate the engine if the alarm devices are not working properly. Doing so may lead to a severe accident in case of a failure because you will not receive any alarm notifications.

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Filling lubricating oil

■ Filling the engine lubricating oil

Keeping the correct oil level is important.
Obey the following procedures when you fill the engine lubricating oil.

1. Remove the oil filler cap.
2. Fill the recommended oil to the upper level mark on the dipstick while checking the level with the



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PERIODIC MAINTENANCE

- Periodical maintenance is an important factor in keeping the engine in the best condition. Perform periodic maintenance depending on the operating hours as described in the following maintenance time schedule.
- When the parts are disassembled for checking and/or servicing, reassemble them properly.
- Please contact a YANMAR dealer or distributor if you need assistance in inspecting your engine or replacing parts.
- Consult with your YANMAR dealer or distributor about scheduling the engine overhaul.

Periodic Maintenance Schedule

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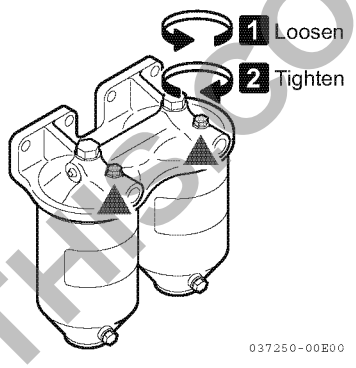
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Bleeding the fuel oil system

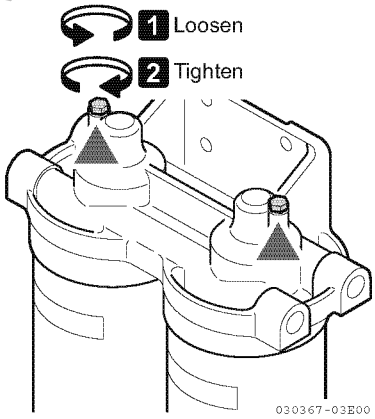
If air enters the fuel system, the fuel injection pump does not work correctly.
Bleed air in the fuel system and obey the following procedure when you fill fuel oil to the fuel tank for the first time, perform maintenance (such as replacing the fuel filter) of the fuel system, after the fuel oil has run out, and when there is a failure at startup.

1. Check the fuel oil level in the fuel tank and open the fuel cock (or valve).

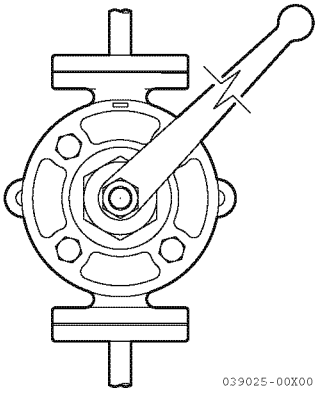
2. Loosen the air vent plug on the top of the water separator (option).
   When fuel oil without air bubbles comes out of the air vent plug hole, tighten the air vent plug.



3. Loosen the air vent plug on the top of the fuel filter.



4. Open the stop valve on the inlet/outlet of the fuel priming pump (wing pump). Operate the pump and send the fuel oil.



5. When fuel oil without air bubbles comes out of the air vent plug hole, tighten the air vent plug.

6. After the air bleeding, close the stop valve on the inlet/outlet of the fuel priming pump.

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Piping Diagram of Major Engine Parts

Fuel oil system

The fuel oil flows from the tank through the water separator (option), fuel feed pump, fuel filter, fuel injection pump and fuel injection pipes into the fuel injection valve.
Leak fuel from the injection valve and the injection pump flows back to the fuel tank.



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