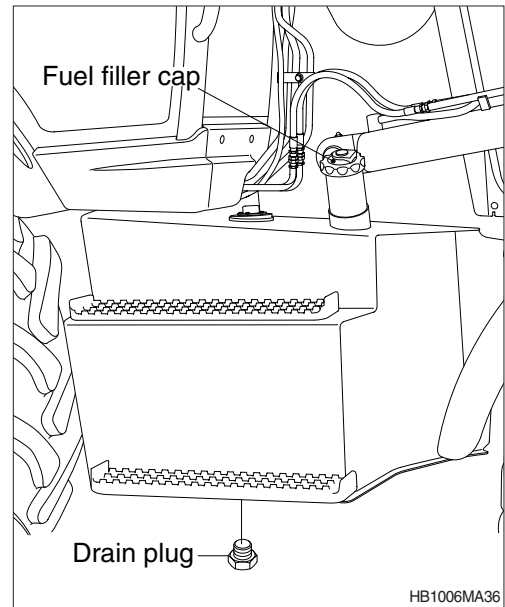


12. FUEL SYSTEM

1) FUEL TANK

- (1) Fill fuel fully when system the operation to minimize water condensation, and check it with fuel gauge before starting the machine.
 - (2) Drain the water and sediment in the fuel tank by opening the plug.
 - ※ Be sure to LOCK the cap of fuel tank.
 - ※ Remove the strainer of the fuel tank and clean it if contaminated.
- ▲ Stop the engine when refueling.**
All lights and flames shall be kept at a safe distance while refueling.

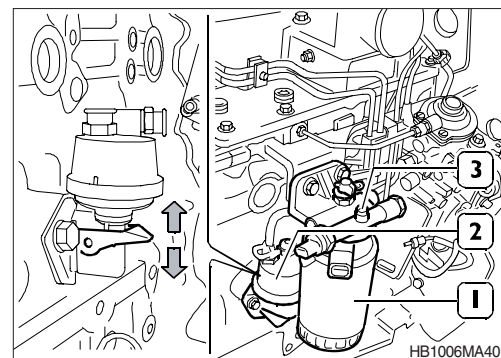
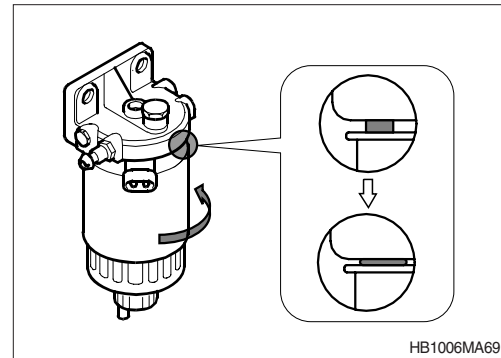


2) CHANGE FUEL FILTER AND BLEEDING THE FUEL SYSTEM

▲ Only proceed with the engine stopped and at a low temperature, so as to avoid the risk of burning.

Only use filters with a filtration level equivalent to the ones you are replacing.

- (1) Remove the filter (1) by unscrewing it.
 - (2) Check that the new filter has performance levels that satisfy the needs of the engine.
 - (3) Damp the new filter seal with diesel or engine oil.
 - (4) Hand screw the new filter into place until the seal gasket touches the support, then lock by a further 3/4 of a turn.
 - (5) Pay particular attention to the electrical fuel pre-heater (if available) and relevant electrical connection.
- ※ Do not fill up the new filter before it is fitted to the support, to avoid inserting harmful impurities into the injection system and circuit.
- ※ In case any operation has been executed on the components of the feed circuit, it is necessary to execute bleeding of air within the system.
- (6) Loosen the air bleed screw (3) on the fuel filter (1) and operate the bleed lever for the priming pump (2) repeatedly.
 - (7) Continue executing this operation until when fuel drains from the bleeder vent screw.
 - (8) Tighten the air bleed screw (3) to a torque (0.7~0.9 kgf · m).

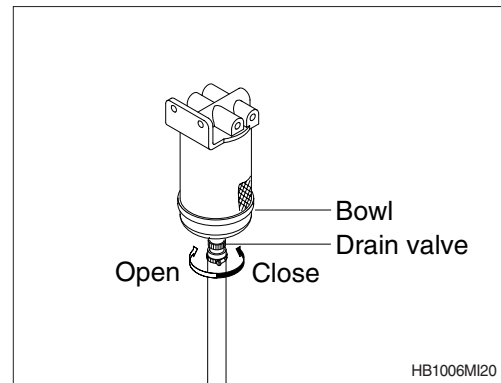


3) PREFILTER

※ Inspect or drain the collection bowl of water daily and replace the element every 600 hours.

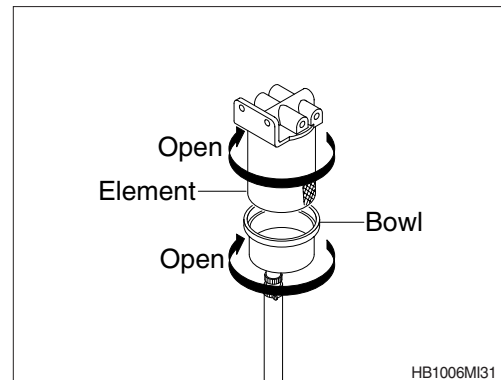
(1) Drain water

- ① Open bowl drain valve to evacuate water.
- ② Close drain valve.



(2) Replace element

- ① Drain the unit of fuel. Follow "Drain water" instructions above.
 - ② Remove element and bowl from filter head.
- ※ The bowl is reusable, do not damage or discard.
- ③ Separate element from bowl. Clean bowl and seal gland.



- ④ Lubricate new bowl seal with clean fuel or motor oil and place in bowl gland.
- ⑤ Attach bowl to new element firmly by hand.
- ⑥ Lubricate new element seal and place in element top gland.
- ⑦ Attach the element and bowl to the head.

