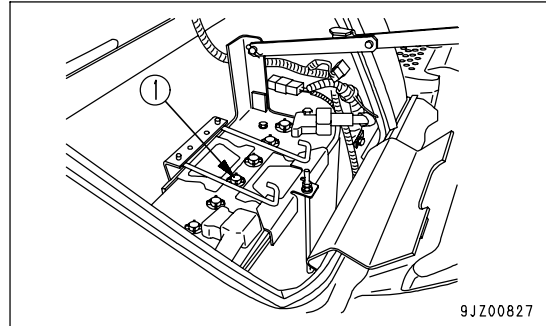


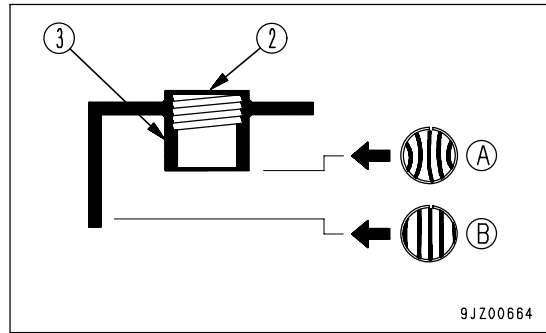
When It is Impossible to Check Electrolyte Level from Side of Battery

If it is impossible to check the electrolyte level from the side of the battery, or there is no display of the UPPER LEVEL line on the side of the battery, check as follows.

1. Open the engine rear cover and cooling cover. For details, see "COOLING COVER (PAGE 3-27)".
2. Remove cap (1) at the top of the battery, look through the water filler port (2), and check the electrolyte surface. If the electrolyte does not reach the sleeve (3), add distilled water so that the level reaches the bottom of the sleeve (UPPER LEVEL line) without fail.
 - (A) Suitable level: Electrolyte level is up to bottom of sleeve, so surface tension causes electrolyte surface to bulge and poles appear bent.
 - (B) Low: Electrolyte level is not up to bottom of sleeve, so poles appear straight and not bent.
3. After adding distilled water, tighten cap (1) securely.

**REMARK**

If water is added to above the bottom tip of the sleeve, use a pipette to remove electrolyte. Neutralize the removed electrolyte with sodium bicarbonate, then flush it away with a large amount of water. If necessary, contact your Komatsu distributor or your battery maker.

**When It is Possible to Use Indicator to Check Electrolyte Level**

If it is possible to use an indicator to check the electrolyte level, follow the instructions given.

CLEAN WATER SEPARATOR ELEMENT

**WARNING**

Do not bring any fire or flame close.

- Prepare a filter wrench
 - Prepare a container to catch the fuel that is drained.
1. Open the engine rear cover and cooling cover. For details, see "COOLING COVER (PAGE 3-27)".
 2. Set handle (1) of the water separator to CLOSED position (A).
 3. Loosen drain plug (2) and drain the accumulated water into a container until red ring (3) reaches the bottom. Then tighten plug (2).
 4. Use a filter wrench to loosen ring (4), take out element cup (5), then remove element (6).
Be careful not to lose red ring (3) inside the cup.
 5. Wash the inside of cup (5) and element (6) with diesel fuel or flushing oil.
 6. After washing, install element (6).
 7. Insert red ring (3) in element cup (5), fill with fuel, then install to the filter holder and tighten ring (4).
Tightening torque: 14.7 to 19.6 Nm (1.5 to 2.0 kgm , 10.8 to 14.5 lbft)
 8. Set handle (1) of the water separator to OPEN position (B).
 9. After washing the water separator, bleed the air.
For details of the procedure for bleeding the air, see "Air Bleeding (PAGE 4-55)".

