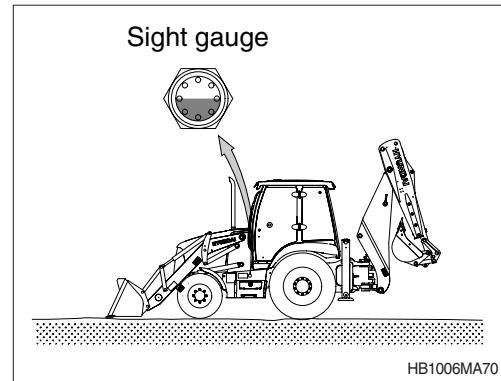


13. HYDRAULIC SYSTEM

1) HYDRAULIC OIL CHECK

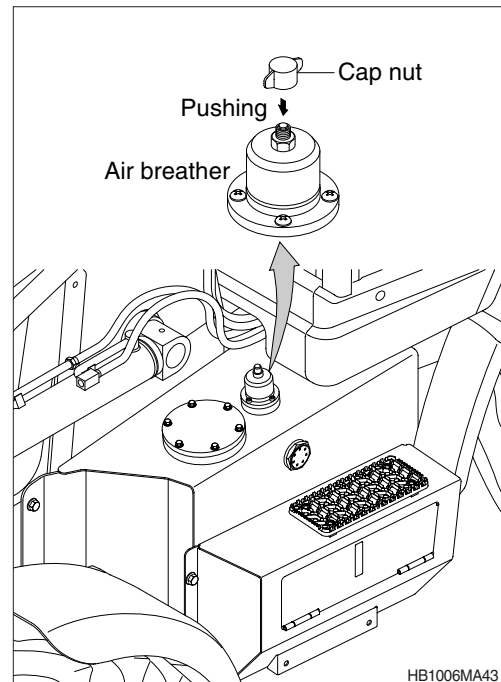
- (1) Lower the bucket on the ground at a flat location as in the illustration.
Stop the engine and then leave for about 5 minutes.
 - (2) Check the oil level at the sight gauge. The sight gauge is located on the left side of the hydraulic oil tank.
 - (3) The sight gauge should indicate the middle position.
- ※ Add hydraulic oil, If necessary.



2) FILLING HYDRAULIC OIL

▲ Escaping fluid under pressure can penetrate the skin causing serious injury.

- (1) Stop the engine to the position of level check.
- (2) Rotate the cap nut counter-clockwise by hand and push the rod to release the air pressure.
- (3) Remove the breather on the top of oil tank and fill the oil to the specified level.
- (4) Start engine after filling and operate the work equipment several times.
- (5) Check the oil level at the level check position after engine stops.

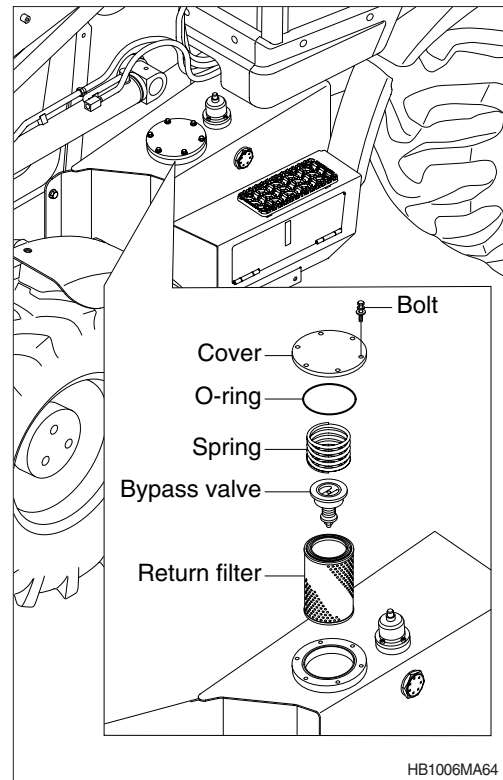


3) CHANGING RETURN FILTER ELEMENT

Clean and replace the return filter in the following manner.

- ▲ Rotate the cap nut counter-clockwise by hand and push the rod to release the air pressure.
- ▲ Escaping fluid under pressure can penetrate the skin causing serious injury.

- (1) Remove the cover.
- (2) Remove spring, by-pass valve and return filter from the tank.
- (3) Replace element with new one and assemble spring and by-pass valve after cleaning.
- (4) Install the cover on the tank.
 - Tightening torque : $6.9 \pm 1.4 \text{ kgf} \cdot \text{m}$
($50 \pm 10 \text{ lbf} \cdot \text{ft}$)

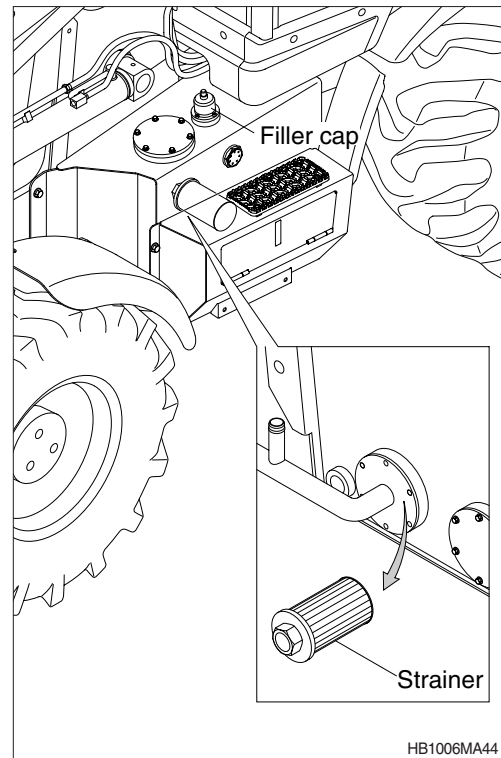


4) CHANGING THE SUCTION STRAINER

▲ Rotate the cap nut counter-clockwise by hand and push the rod to release the air pressure.

▲ Escaping fluid under pressure can penetrate the skin causing serious injury.

- (1) Park the machine on level ground, lower the attachments to the ground. Apply the park brake, put the FNR lever in neutral and stop the engine. Block both sides of all four wheels. Stop the engine. Remove the starter key.
- (2) Remove hydraulic tank filler cap.
- (3) Place a container beneath the hydraulic tank the catch the oil, remove drain plug and drain the hydraulic tank. Make sure the container is large enough to hold the tank contents.
- (4) Fit a new strainer.
- (5) Reconnect suction hose.
- (6) Refit drain plug.
- (7) Refill hydraulic tank, fit and tighten the filler cap.



5) REPLACE OF PILOT LINE FILTER

- (1) Loosen the nut positioned on the filter body.
- (2) Pull out the filter element and clean filter housing.
- (3) Install the new element and tighten using specified torque.

