

14. TRANSMISSION

1) CHECK TRANSMISSION OIL LEVEL

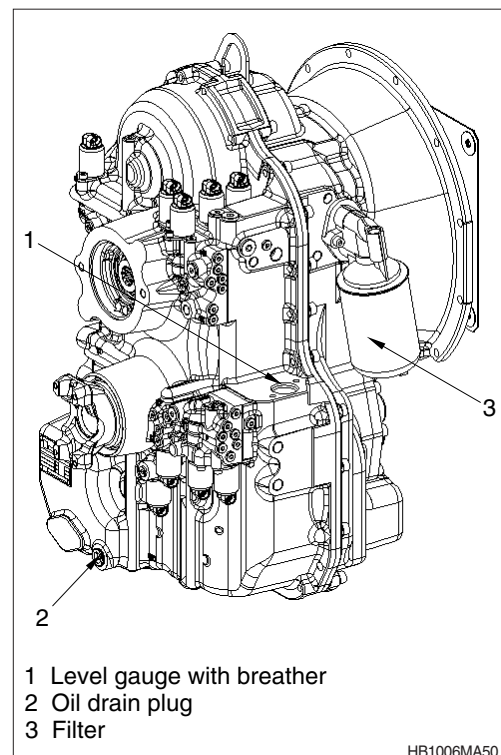
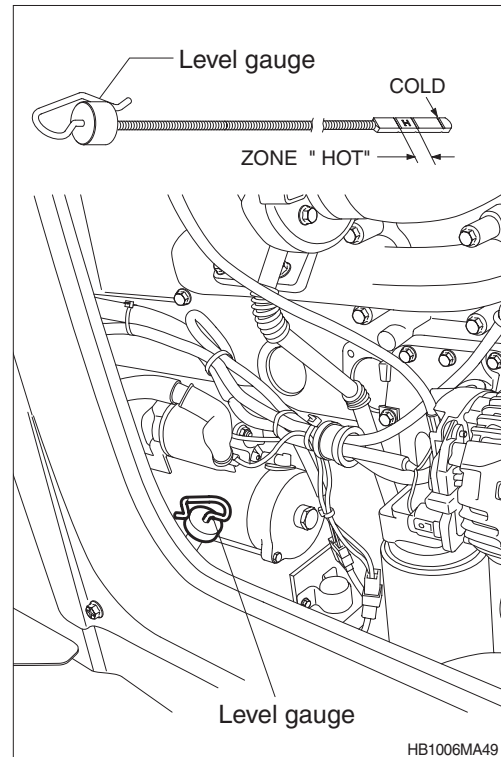
The oil level check must be carried out as follows;

- (1) Oil level check (weekly).
- (2) At horizontally standing machine.
- (3) Set the FNR lever in neutral position.
- (4) In cold start phase, the engine must be running about 2~3 minutes at idling speed, and the marking on the oil level gauge must then be lying above the cold start mark COLD.
- (5) At operating temperature of the transmission (about 80~90°C).
- (6) At engine idling speed.
- (7) Loosen oil level gauge, remove and clean it.
- (8) Insert oil level gauge slowly into the oil level tube until contact is obtained, and pull it out again.
- (9) On the oil level gauge, the oil level must be lying in the zone HOT.
- (10) Insert the oil level gauge again.

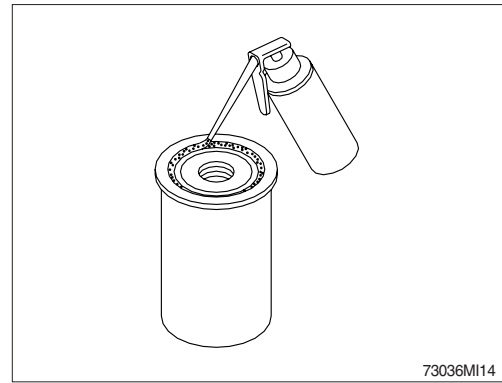
▲ When checking, press the parking brake switch and fix the front and rear frames with the safety lock bar.

2) REPLACEMENT OF TRANSMISSION OIL AND FILTER ELEMENT

- (1) Operate the machine for a few minutes in order to warm the transmission oil.
- (2) Move the machine to flat ground. Lower the bucket to the ground and slightly apply downward force.
- (3) Press the parking brake switch and stop the engine.
- (4) Open transmission air breather to relieve internal air pressure.
- (5) Remove the transmission drain plug. Allow the transmission oil to drain into a suitable container.



- (6) Remove the transmission oil filter cartridge.
Dispose of the used transmission oil filter cartridge properly.
- (7) Clean the filter cartridge mounting base.
Remove any part of the filter cartridge gasket that remains on the filter cartridge mounting base.
- (8) Apply a light coat of oil to the gasket of a new transmission oil filter cartridge.
- (9) Install the new transmission oil filter cartridge.
Screw the filter in until contacts with the sealing surface is obtained and tighten it now by hand about 1/3 to 1/2 turn.



- (10) Fill the oil through level gauge inlet and check if the oil is at the appropriate level.
- (11) The proper oil amount is 18 liters. (4.8 U.S. gallons)

- ▲ **As the machine is hot after operation wait until the temperature has dropped.**
- ▲ **It is imperative to pay attention to absolute cleanliness of oil and filter.**
Binding is in any case the marking on the oil level gauge.

