CX210N EXCAVATOR

Operator's Manual

Bur 6-34760na

CASE
CONSTRUCTION

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Chapter 2

SAFETY, DECALS, AND HAND SIGNALS

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TRAVEL CONTROL

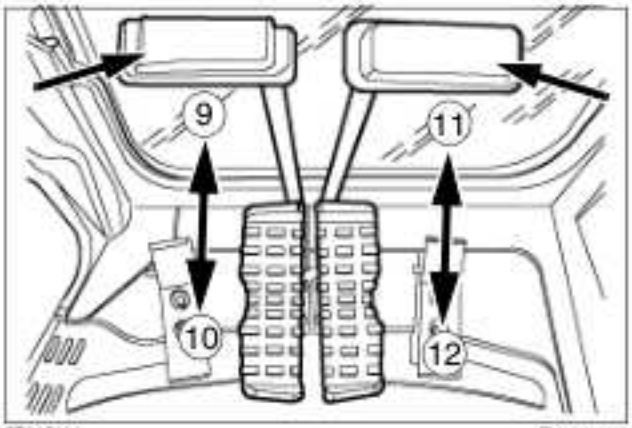
Travel control is done by using the levers or the pedals. To travel in a straight line, both levers have to be simultaneously operated, either forward or backward. Change of direction is done either by operating a single lever, or by operating simultaneously one lever forward and the other backward, so that the machine pivots on the spot. See Moving the machine in the Operating Instructions section.

IMPORTANT: *In the normal travel position, the operator's compartment is above the idler wheels and the travel reduction gears are to the rear of the upperstructure. If the upperstructure is turned 180 degrees in relation to the undercarriage, to move the machine forward, the levers have to be pulled towards yourself (i.e. in reverse) and vice-versa.*

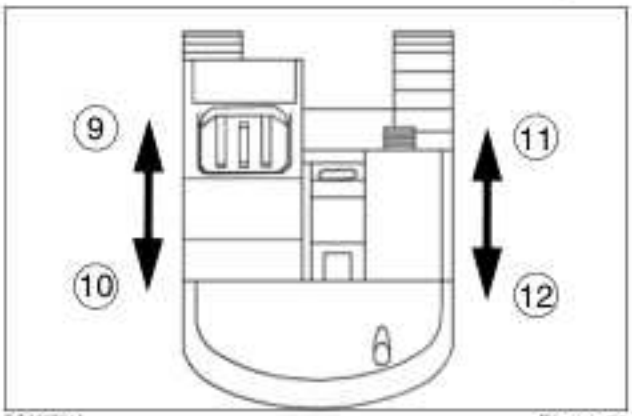
NOTE: *The forward or reverse travel speed depends on whether the high speed travel switch is used or not. See High speed travel switch.*

NOTE: *The movements of the machine are shown in the Control functions decal. See Decals.*

9. The left-hand track moves forward.
10. The left-hand track moves backward.
11. The right-hand track moves backward.
12. The right-hand track moves forward.



CT02C063 Figure 28

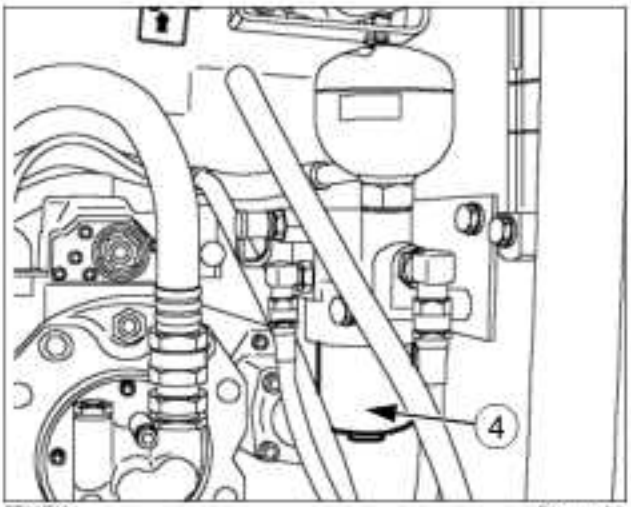


CS38M544 Figure 29

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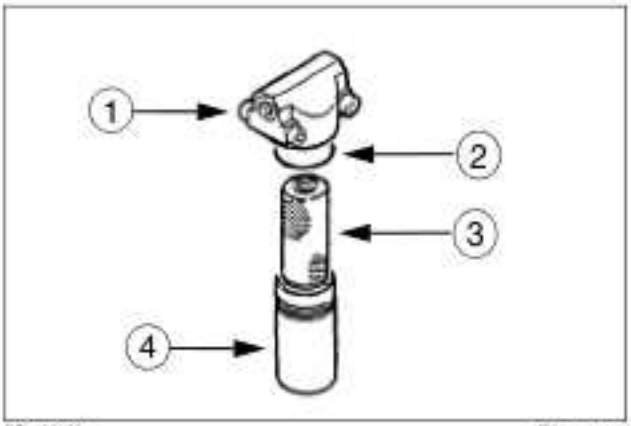
PILOT FILTER REPLACEMENT

To access the filter, open the right-hand rear side door.



CT02E126 Figure 51

1. Release all pressure in the hydraulic system. See Releasing Pressure in the Hydraulic System.
2. Use a wrench on the bottom of the filter body (4) to unscrew and remove it.
3. Remove the old filter (3) and O-ring (2).
4. Clean the filter body (4) in solvent and wipe dry with a cloth.
5. Coat the new filter (3) and the new O-ring (2) with clean hydraulic fluid and install the filter on the head (1).
6. Install the filter body (4) and tighten with a wrench. Do not overtighten.



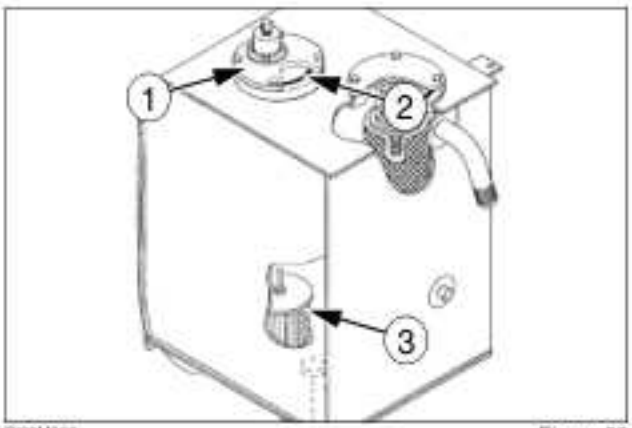
CS38M619 Figure 52

To access the filter, open the rear right-hand side door.

CLEANING AND REPLACEMENT OF THE INLET FILTER

1. Release all pressure in the hydraulic reservoir. See Releasing Pressure in the Hydraulic System.
2. Clean the top of the hydraulic reservoir and clean the inlet filter cover.
3. Remove the cover (1), O-ring (2) and spring on the top of the inlet filter rod assembly.
4. Remove the inlet filter (3) and clean with solvent. Dry it completely and check it for any damage. If there is any damage on the surface, replace it with a new one.
5. Install a new O-ring (2) and install the inlet filter (3), spring and rod assembly.
6. Install the cover (1).
7. Check the level of the hydraulic fluid and add more if necessary. See Filling the reservoir.

NOTE: *Install a new inlet filter every 5000 hours of operation or when the hydraulic fluid is replaced.*



C98M156 Figure 53

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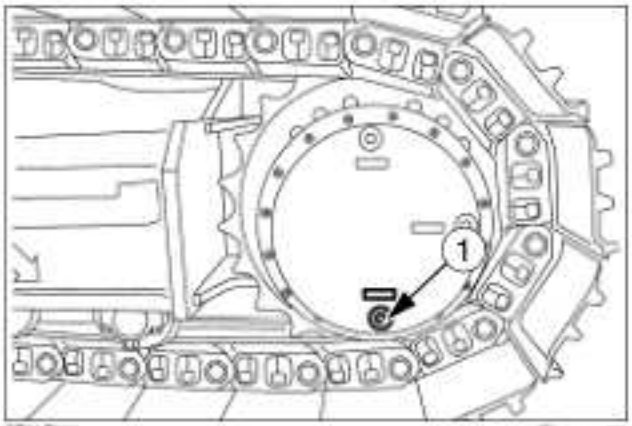
TRAVEL REDUCTION GEARS

SERVICE SPECIFICATIONS

Oil level check	Every 250 hours
Draining	Every 1000 hours (after the first 250 hours of operation)
Oil capacity	4.7 litres (1.25 gal)
Oil type	See Fluids and Lubricants

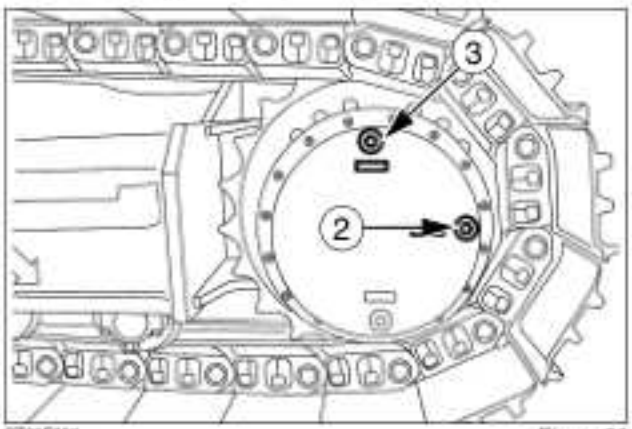
LEVEL

1. Park the machine on flat, horizontal ground.
2. Move the machine so that plug (1) is in the lowest possible position.



CT02F008 Figure 79

3. Stop the engine and remove the starter switch key.
4. Remove the plug (2) and check the oil level. The level must come up to the lower edge of the orifice. If required, remove the plug (3) then top up through this port (3) until oil comes up to the bottom edge of the port (2).

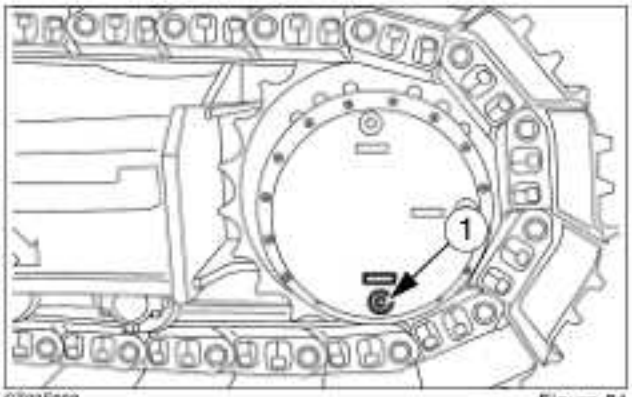


CT02F009 Figure 80

5. Install the plugs (2) and (3).
6. Repeat Steps 2 to 5 for the other travel reduction gear.Travel slowly with the machine and make sure there are no leaks.

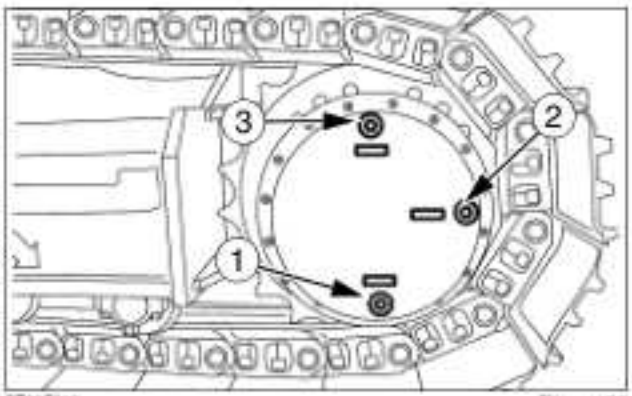
DRAINING AND REFILLING

1. Park the machine on flat, horizontal ground.
2. Move the machine so that plug (1) is in the lowest possible position.



CT02F008 Figure 81

3. Shut down the engine and remove the starter switch key.



CT02F010 Figure 82

4. Place a receptacle of a suitable capacity under the travel reduction gear and remove the three plugs (1), (2) and (3).
5. Allow the oil to drain.

   IMPORTANT: *Check the condition of the drained oil. If it contains metal filings or foreign matter, see your CASE Dealer.*
6. Install the plug (1), fill with oil through the port (3) until oil comes up to the bottom edge of port (2), then install the plugs (2) and (3).
7. Repeat Steps 2 to 6 for the other travel reduction gear. Travel slowly with the machine and make sure there are no leaks.

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