CASE

PROFESSIONAL PARTNER

OPERATOR'S MANUAL

EXCAVATOR

CX290B

87364351 NA

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SAFETY AND DECALS

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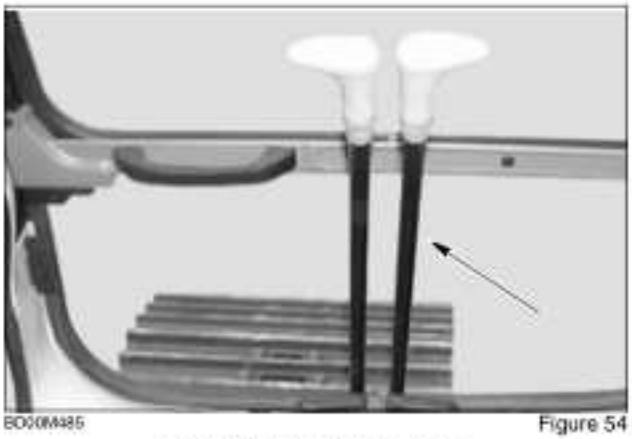
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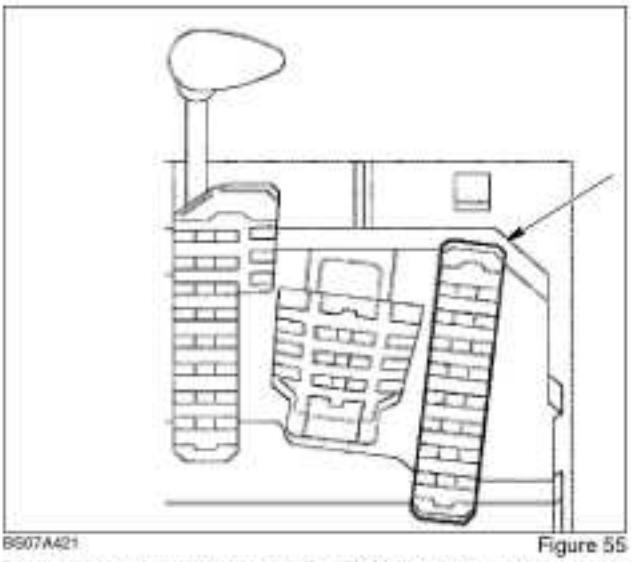
TRAVEL CONTROL LEVERS AND PEDALS



BD00M385 Figure 54

TRAVEL CONTROL LEVERS

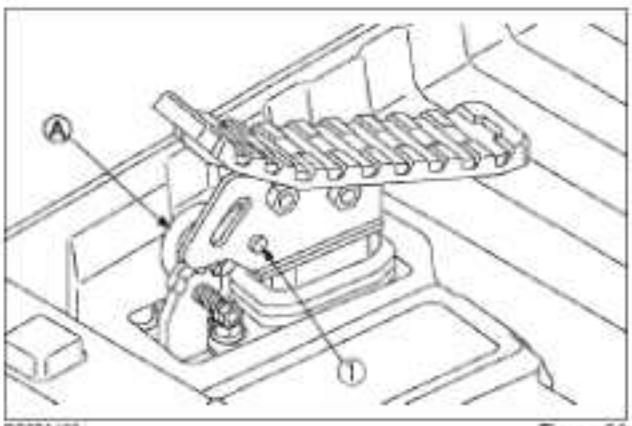
SINGLE PEDAL TRAVEL



BS07A421 Figure 55

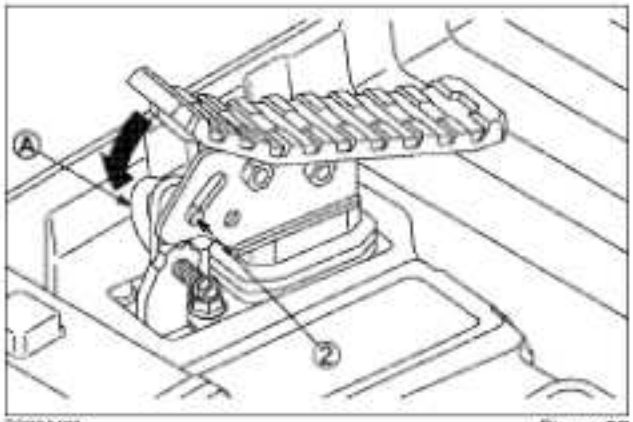
Push the top of the pedal for FORWARD travel. Push the bottom of the pedal for REVERSE. Both tracks will move at the same speed.

PEDAL OPERATION



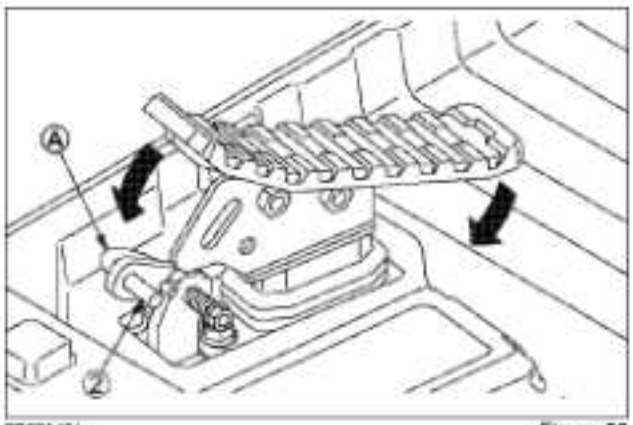
BS07A422 Figure 56

Put the pedal at the locking position (1) when it is not in operation.



BS07A423 Figure 57

If the pedal is placed in the half locked position, the pedal can be operated in one direction only. In the example the pedal is locked mechanically on the reverse side and only forward travel can be performed.



BS07A424 Figure 58

In the non locked position, the pedal can be operated in both directions, forward and reverse.

When switching pedal operation, pull the lock lever (A) to change operating position.

For machine travel, see "Machine Travel" in the "Operating Instructions" Section.

IMPORTANT: *Travel speed either forward or in reverse depends on the position of the travel speed selector. See "Systems display panel".*

IMPORTANT: *The movements of the machine are shown in the "Control functions" decal. See "Decals" in the "Safety/Decals/Hand Signal" Section. Make certain the decal and the movement patterns match by operating the machine in a level, unobstructed area clear of unauthorized personnel.*

Ask your CASE Dealer for advice on optional tools.

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500 HOUR MAINTENANCE

OIL CHANGE AND FILTER REPLACEMENT

Service Specifications

Oil Type . . . . . CASE AKCELA No. 1

Oil Capacity with filter . . . . . 40.2 Qts. (38 Liters)

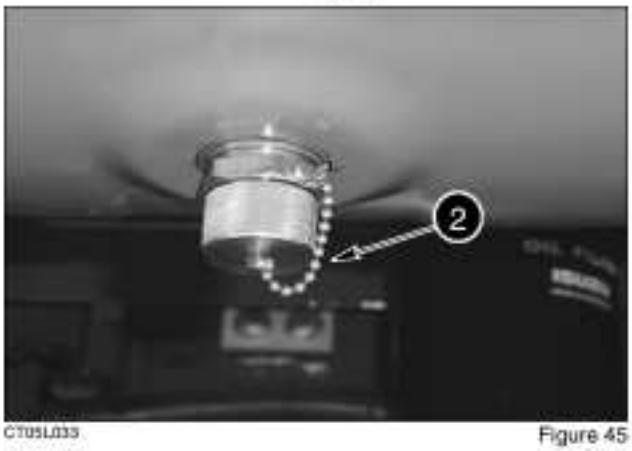
Change the engine oil more frequently than every 500 hours when the engine operating conditions are severe (frequent stopping and starting and high or low engine temperatures).

1. Park the machine on a flat, level area. Stop the engine, and remove the starter key. Oil will be easier to change if it is still warm (not hot). Before draining the oil, have a container that will hold the required oil quantity.



CD01N025 Figure 44

2. Remove the oil filter cap (1).



CT05L033 Figure 45

3. Remove the protective cap (2) from the engine housing drain.
4. Screw the end of the extension drain hose provided with the machine onto the engine check valve. Place the other end in a container of suitable capacity and allow the oil to drain.
5. Remove the extension drain hose and install the protective cap on the housing check valve. Return the extension drain hose to its storage compartment.



CT06M040 Figure 46

6. Clean the area around the filter (3) and remove it.



PH08025 Figure 47

7. To replace the filter, coat the seal of the new filter with a fine film of oil.
8. Install the new filter. Turn the filter until the seal comes into contact with the filter head, and turn an extra half turn by hand.

IMPORTANT: *Do not use a filter wrench to tighten the filter. Excessive tightening can damage the filter and their seals.*

9. Fill the engine with new engine oil. Install the oil filler cap.
10. Run the engine for a few minutes, and make certain there are no leaks. Check the oil level again, and add more oil if necessary.

IMPORTANT: *You must shorten the oil change interval if you use diesel fuel with a sulphur content of more than 0.5%.*

IMPORTANT: *Always wait fifteen minutes to allow the oil to return to the sump before checking the oil level.*

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5000 HOUR MAINTENANCE

Service Specifications

Reservoir capacity ..... 39 Gal. (147 Liters)
Total system capacity ..... 79 Gal. (300 Liters)
Type of oil ..... Case Hy-Tran Ultra® (MAT 3505)

REPLACING THE HYDRAULIC FLUID

1. Keep all non-authorized personnel clear of the area. Release all pressure in the hydraulic reservoir. See "Releasing pressure in the hydraulic system."



CT06K102 Figure 82

2. Remove the reservoir cover plate.
3. Using a pump, remove the fluid from the hydraulic reservoir. Have a container with a suitable capacity ready.



CT05M023 Figure 83

4. Remove the drain plug to remove the remaining fluid from the reservoir.
5. Replace the inlet filter and the return filter. See "Cleaning and replacement of the inlet filter" and "Return filter replacement".
6. Install the reservoir drain plug.
7. Put new hydraulic fluid into the reservoir. See "Filling the reservoir".
8. Install the reservoir cover plate and seal.

IMPORTANT: *Before you start the engine, it is very important that you bleed air from all the hydraulic components. See "Bleeding air from the hydraulic components".*

9. Start and run the engine with no load for approximately five minutes.
10. Move each control slowly several times to remove any air in the system.
11. Swing the upper structure evenly left to right two turns or more.
12. Place the machine in position, and then stop the engine.
13. Check the oil level in the hydraulic reservoir and add oil as required. Make sure there are no air bubbles in the hydraulic reservoir.

WARNING: *Before carrying out any service work on the hydraulic system it is necessary to allow it to cool (the temperature should not be more than 40° C (104° F). Failure to comply could result in injury or death.*

WARNING: *Hydraulic fluid or grease injected into your skin can cause severe injury or death. Keep your hands and body away from any pressurized leak. Use cardboard or paper to check for a leak. If fluid is injected into your skin, see a doctor immediately, and have the fluid removed. Failure to comply could result in injury or death.*

WARNING: *Before carrying out any service work on hydraulic filters or the hydraulic system, remove the hydraulic reservoir breather cap, and press the button on the breather to release all pressure in the system. Failure to observe these instructions can cause injury. See "Releasing pressure in the hydraulic system". Failure to comply could result in injury or death.*

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