

Kubota K008-3

Operating Instructions

Bucket Changing Instructions

Breakdown Advice



Dear customer

Thanks for hiring this Kubota K008-3 excavator from us. We hope you get on well.

To help things go smoothly we've put together this document, providing operational and safety advice, instruction on changing buckets and help with what to do if you encounter an issue during your hire.

If there's anything we can help with during your hire please contact us on 01235 814000 or info@didcotplant.co.uk.

Opening hours: Monday—Friday 7.30am to 5.00pm
& Saturday (Mar—Nov) 7.30am to Noon



Safety Features

Locking the control lever (newer machines)

If the control lever lock (1) is located in the upper position, the control lever functions are locked and out of service.

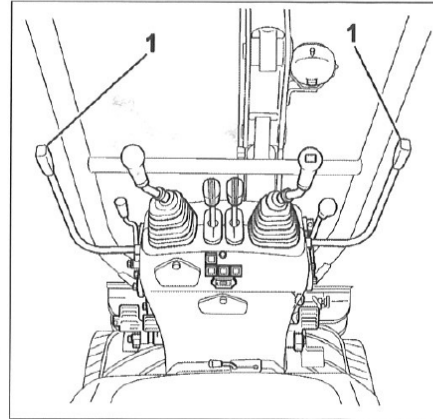


Make sure that all controls are in the neutral position and that the control levers are locked.



The hydraulic functions for driving, setting the track width, operating the dozer, swinging the boom and operating the auxiliary port are not locked by the control lever lock and can be activated.

- To release the control lever, place the control lever lock into the lower position.

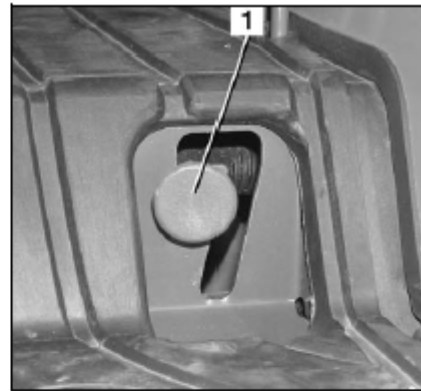


Locking the swivel frame

If the swivel frame lock (1) is in the bottom position, the swivel frame and the track frame are interlocked.



Prior to locking the swivel, frame the swivel frame and the track frame have to be aligned together in a parallel position.

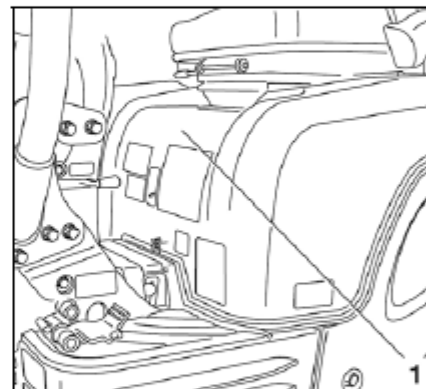


Manually stopping the engine

If the electrical system fails, the engine can be shut off manually.

To stop the engine:

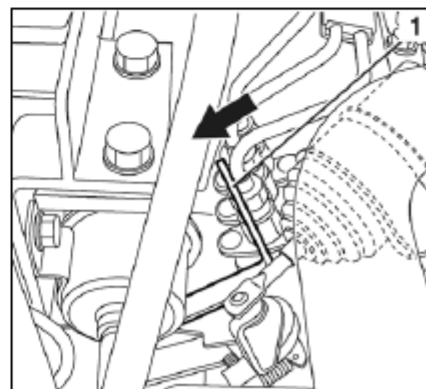
- Open the engine compartment cover (1) (Page 78).



- To stop the engine, push lever (1) in direction of arrow until the engine is stationary.



Caution! Do not touch the fan wheel → risk of injury.



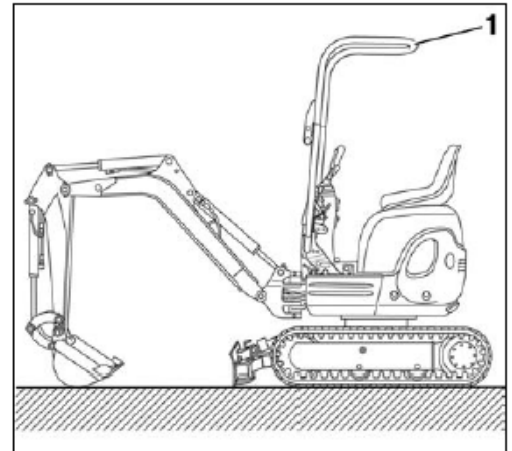
Safety Features

Roll-over safety bar

- If the roll-over safety bar (1) is in the swivelled upward position and if it is locked in this position, then the operator with tightly fastened seat belt is protected against crushing if the excavator tips over.



When operating the excavator, the roll-over safety bar must be in the swivelled upward, locked position (page 61).

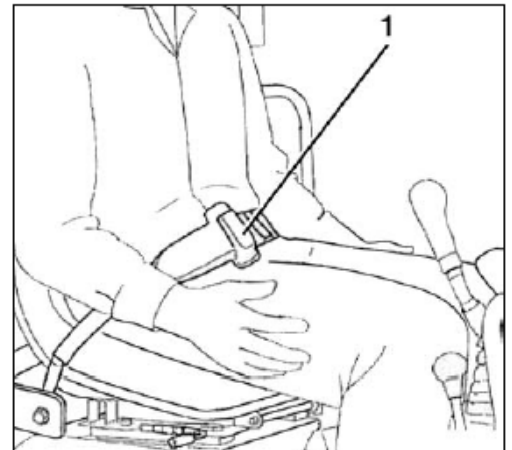


Seat belt

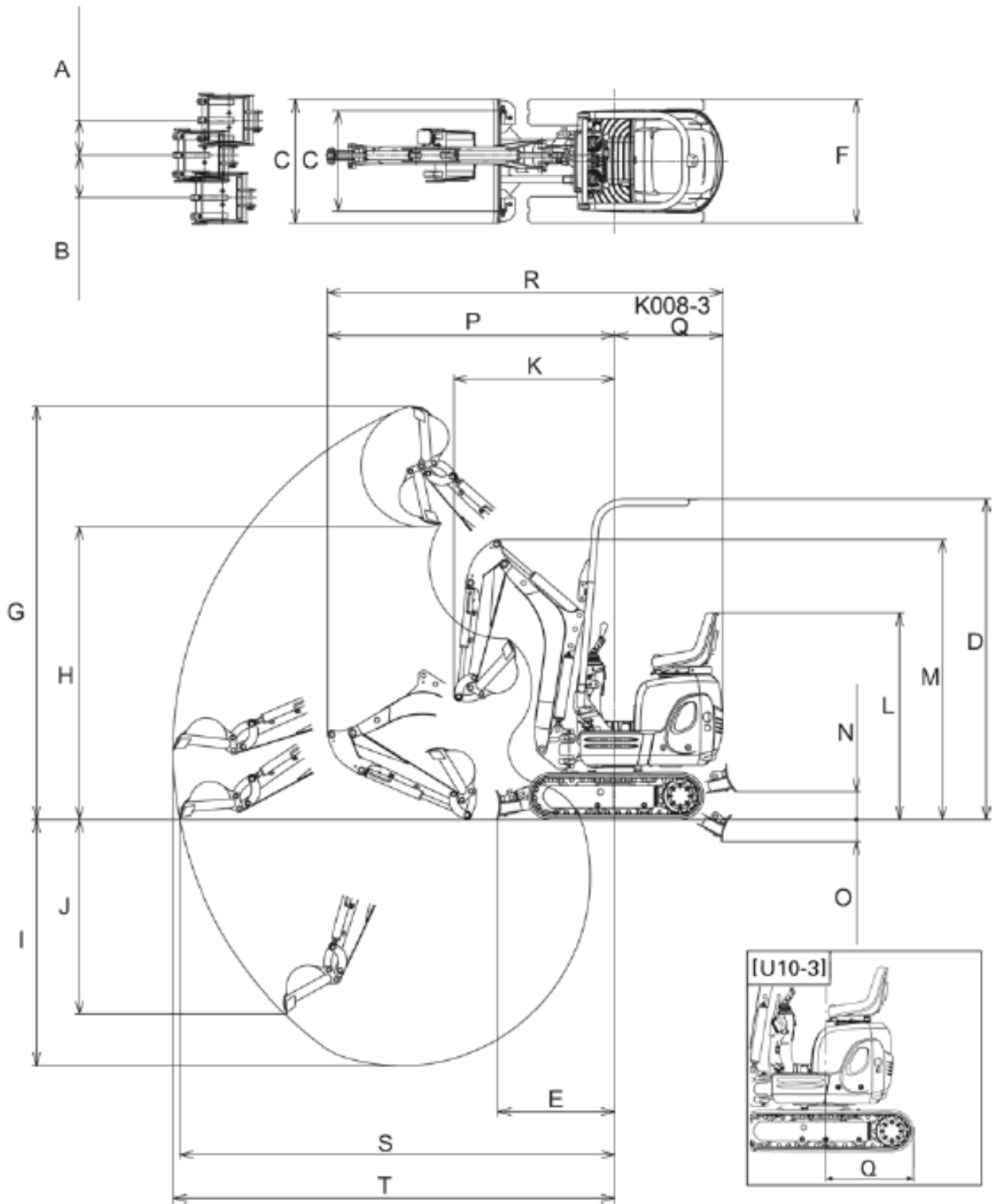
- If the operator with tightly fastened seat belt (1) is on the operator's seat, then he is protected against falling off and therefore against crushing or bruising in the event of a collision or tipping over of the excavator.



When operating the excavator with the roll-over safety bar swivelled upward and locked, wear the seat belt (page 55). When driving with the roll-over safety bar swivelled downward (e. g. driving through a low passageway), do not wear the seat belt.



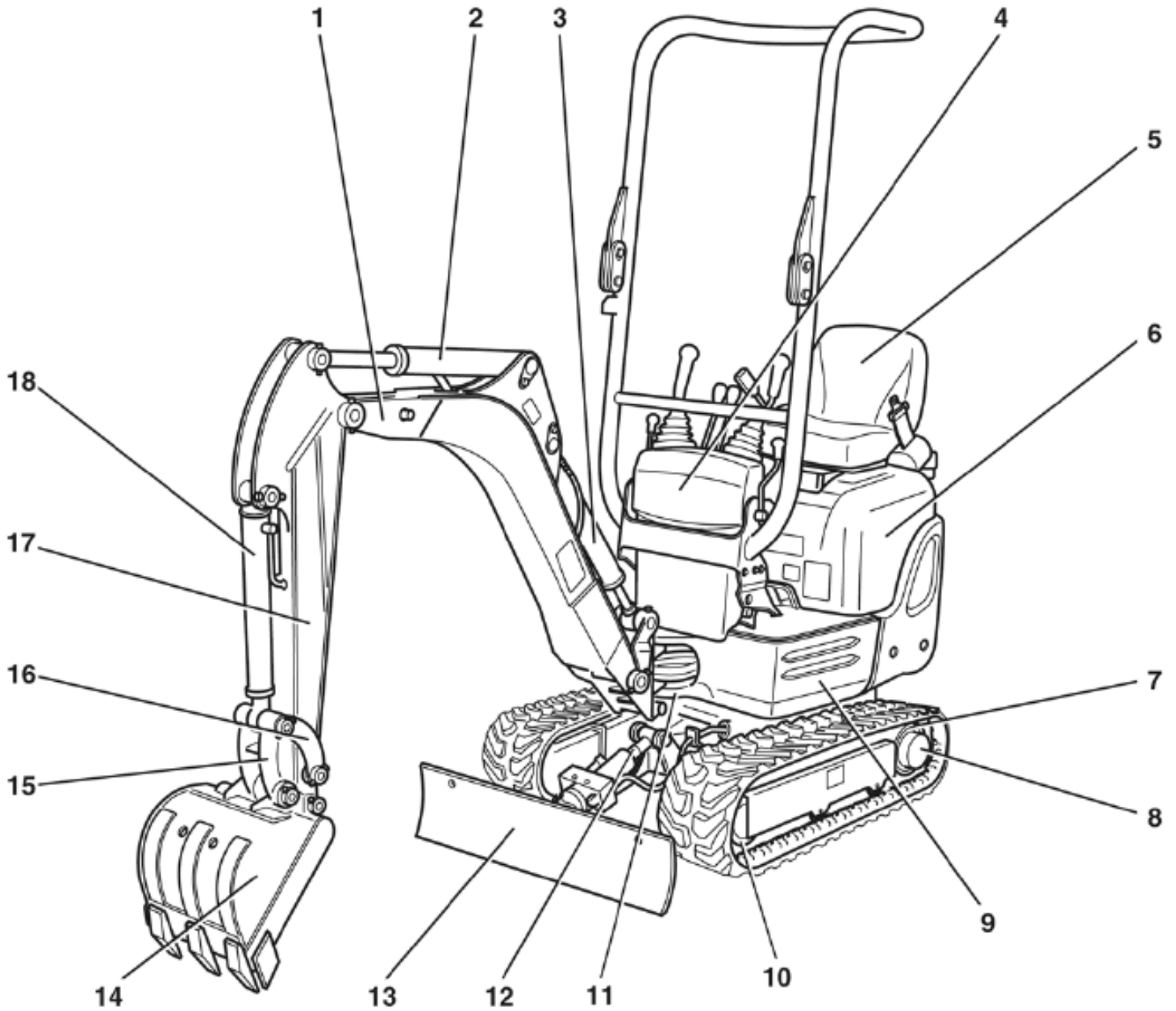
Dimensions



All dimensions in mm

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T
K008-3	245	300	700/ 860	2230	820	700/ 860	2870	2030	1720	1380	1120	1420	1940	200	180	2000	750	2750	3020	3070

Component Overview

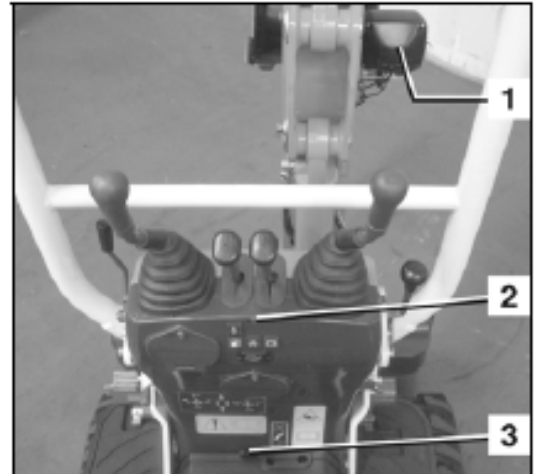


- | | |
|--------------------|----------------------------|
| 1. Boom | 10. Idler |
| 2. Arm cylinder | 11. Swing block |
| 3. Boom cylinder | 12. Dozer cylinder |
| 4. Control console | 13. Dozer blade |
| 5. Operator's seat | 14. Bucket |
| 6. Engine hood | 15. Bucket linkage 1 |
| 7. Drive sprocket | 16. Bucket linkage 2 and 3 |
| 8. Drive unit | 17. Arm |
| 9. Swivel frame | 18. Bucket cylinder |

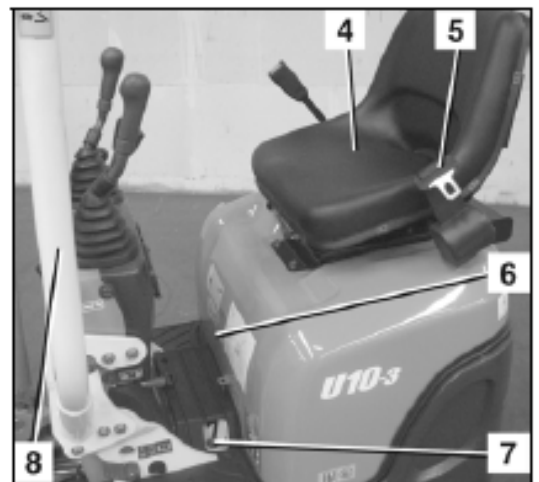
Operator's Place

The operator's place is located in the middle of the excavator. It includes the following control elements:

1. Working light
2. Control console
3. Selector lever for the dozer/extendable track width



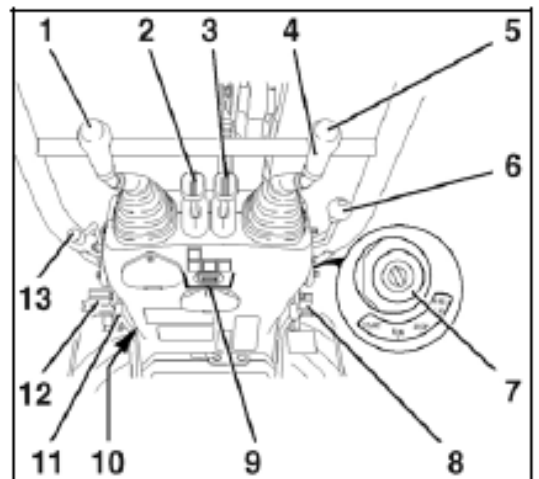
4. Operator's seat
5. Seat belt
6. Lever for the engine hood
7. Swivel frame lock
8. Roll-over safety bar



Control console

The control console (see figure) includes the following components:

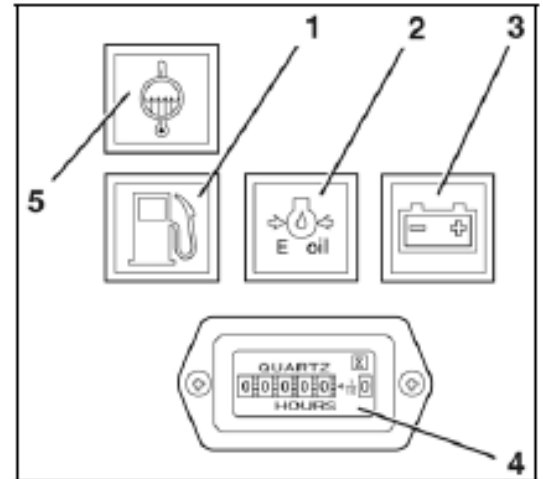
1. Left control lever
2. Left drive lever
3. Right drive lever
4. Right control lever
5. Horn switch
6. Dozer control lever
7. Starter switch
8. Boom swing pedal
9. Displays and indicators
10. Fast drive position pedal (only for U 10-3)
11. Control lever lock
12. Auxiliary port pedal
13. Throttle lever



Operator's Place

The control console contains the following displays and indicators:

1. Fuel level indicator
2. Engine oil pressure indicator
3. Charge lamp
4. Time meter
5. Coolant temperature indicator



Description of the components of the control console

1. Left control lever

The functions of the left control lever are described in the "Controls" section (page 38).

2./3. Left and right drive levers

The functions of the left and right drive lever are described in the "Controls" section (page 38).

4. Right control lever

The functions of the right control lever are described in the "Controls" section (page 38).

5. Horn switch

Depressing the horn switch activates the horn.

6. Dozer control lever

The functions of the dozer control lever are described in the "Controls" section (page 38).

7. Starter switch

The starter switch serves as the master switch for the entire machine and as switch for pre-glowing and starting the engine.

8. Boom swing pedal

This pedal is used to swing the boom right and left.

9. Displays and indicators

The functions of the displays and indicators are described in the "Displays and indicators" section (page 38).

10. Fast drive position pedal (only for U 10-3)

Pressing the pedal activates the fast drive position.

11. Control lever lock

The operation of the control lever lock is described in the "Controls" section (page 38).

12. Auxiliary port pedal

The auxiliary port pedal is used to operate an implement.

13. Throttle lever

The engine speed can be infinitely adjusted from idle to maximum engine speed using the throttle lever. To increase engine speed, pull back the throttle lever. To decrease engine speed, push forth the throttle lever.

Operator's Place

Displays and indicators - description

1. Fuel level indicator

The fuel level indicator lights up when there are only 2 L of fuel left in the fuel tank.

2. Engine oil pressure indicator

The indicator lights up when the starter switch is switched to the RUN position. It also lights up when the engine oil pressure drops considerably and upon stopping the engine.

3. Charge lamp

The indicator lights up when the starter switch is switched to the RUN position. The charge lamp goes off as soon as the engine has started.

4. Time meter

The time meter indicates in intervals of 0.1 hours (i.e. 6 minutes) the hours of operation of the machine.



The time meter even continues when the engine has stopped but the starter switch is still in the RUN position.

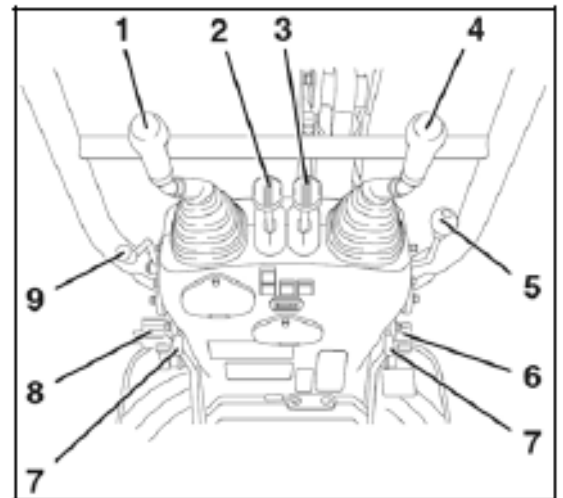
5. Coolant temperature indicator

The warning lamp lights up when the temperature of the coolant lies outside of the normal range.

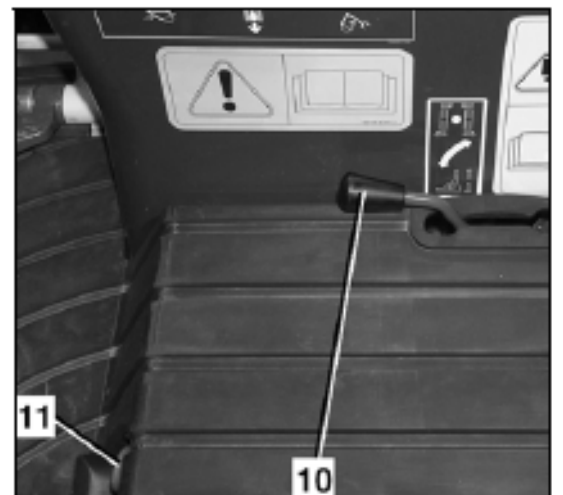
Controls

The controls include the following components:

1. Left control lever
2. Left drive lever
3. Right drive lever
4. Right control lever
5. Dozer control lever
6. Boom swing pedal
7. Control lever lock
8. Auxiliary port pedal
9. Throttle lever



10. Selector lever for the dozer/extendable track width
11. Swivel frame lock



Operator's Place

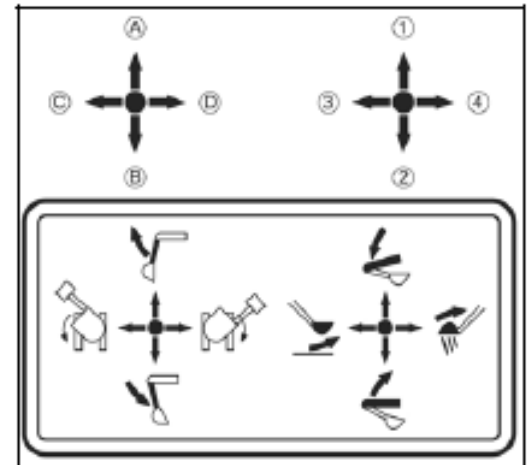
Description of the controls

1. Left control lever

The left control lever is used to swivel the swivel frame and move the arm. See the table below for details.

The figure shows, in connection with the following table, the functions of the left and right control levers.

Control levers		Movement
Right control lever	1	Lower boom
	2	Raise boom
	3	Bucket crowd
	4	Bucket dump
Left control lever	A	Arm dump
	B	Arm crowd
	C	Swivel frame to the left
	D	Swivel frame to the right



2./3. Left and right drive levers

With the drive levers the excavator can be driven forwards and backwards and also turned. The left drive lever controls the left track and the right drive lever controls the right track.

4. Right control lever

The right control lever is used to move the boom and the bucket. See the figure above illustrating the right control lever.

5. Dozer control lever

The dozer control lever is used to raise or lower the dozer blade. Pushing the lever forward lowers the dozer blade and pulling it back raises it.

6. Boom swing pedal

This pedal is used to swing the boom right and left.

7. Control lever lock

The control lever lock prevents the operator from inadvertently activating the control levers.

8. Auxiliary port pedal

The auxiliary port pedal is used to operate an implement.

9. Throttle lever

The engine speed can be infinitely adjusted from idle to maximum engine speed using the throttle lever. To increase engine speed, pull back the throttle lever. To decrease engine speed, push forth the throttle lever.

10. Selector lever for the dozer/extendable track width

With the selector lever in the extendable track width position, the dozer control lever can be used to adjust the track width. To reduce the track width, push the lever forward, to increase, pull the lever backward.

11. Swivel frame lock

Using the swivel frame lock you can interlock the swivel frame and the track frame.

Operation

Safety for children



Children are normally attracted to machines and their normal operation. If children are in the vicinity of the machine and are not at a suitable distance and in the field of vision of the operator, this can lead to serious accidents or even death of the children.

Always observe the following rules of conduct:

- Never assume that children will remain where you last saw them.
- Keep children far away from the working area and always under the supervision of other responsible adults.
- Be vigilant and switch the machine off when children enter the working area.
- Never let children drive with you on your machine, there is no safe place for passengers. Children could fall off the machine and be run over or affect the control of the machine.
- Children must never operate the machine, even under supervision of an adult.
- Never let children play on the machine or attachments.
- Be particularly careful when manoeuvring. Look behind and down below on the machine and ensure that there are no children in the manoeuvring area.
- Before leaving the machine, park it so that it cannot move. When leaving the machine (e.g. for breaks or at the end of work), stop the engine, remove the key and close the cab door, if present.

Guiding the operator

- If the operator's working and driving area is obscured, the operator must be supported by a guide.
- The guide must be capable of performing this kind of work.
- Before starting work, the guide and the operator must agree the necessary signals.
- The guide's position must be clearly visible by the operator.
- The operator must stop the excavator immediately if the eye contact to the guide is interrupted.
→ As a rule, either the excavator or the guide may move, never both at once!

Operation

Working in the vicinity of overhead power lines

When working with the excavator in the vicinity of overhead power lines and tram lines, a minimum distance as specified in the following table must be maintained between the excavator and its attachments and the power line.

Rated voltage [V]		Safe distance [m]
	up to 1 kV	1.0 m
over 1 kV	up to 110 kV	3.0 m
over 110 kV	up to 220 kV	4.0 m
over 220 kV	up to 380 kV or when rated voltage is unknown	5.0 m

If safe distances can not be maintained, the power lines must be switched off in coordination with their owner or provider and secured against making them live again.

When approaching overhead power lines, any possible movements of the excavator must be taken into consideration.

Unevenness of the ground or sloping the excavator can reduce the safe distance.

Wind can cause the overhead power lines to sway, thus reducing the safe distance.

In case of a power cross-over, leave the danger zone with the excavator, if possible, by taking suitable measures. If this is not possible, do not leave the operator's place, warn any approaching persons of the danger, and have the power switched off.

Working in the vicinity of underground power lines

Before starting with excavation work, the owner of the excavator or the person responsible for the work must check if there are any underground power lines in the proposed working area.

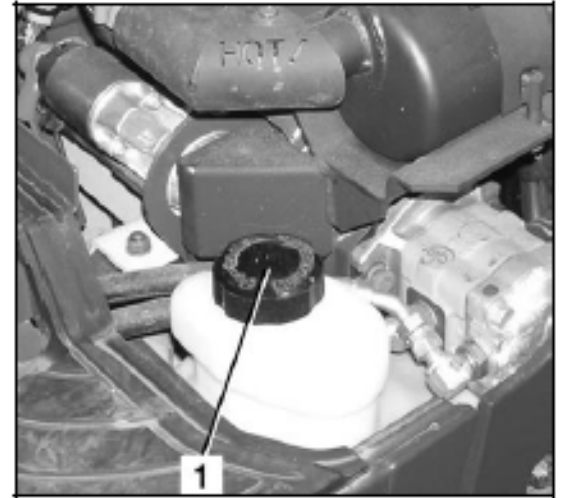
If there are underground power lines present, the position and routing of the power lines must be determined together with the owners or operators and the required safety measures must be determined.

If power lines are encountered or accidentally damaged, the operator must stop working immediately and inform the responsible person.

Operation

Checking the fuel level of the fuel tank

- Open the engine hood (page 78).
- Open the filler cap (1).
- Check the fuel level.
- If the fuel level is too low, refuel the excavator (page 76).
- Close the filler cap.



Setting up the workplace

When getting on and off the excavator, always make sure the control levers and the swivel frame are locked (page 21, 22).

Getting on the excavator

- Get on the excavator by using the crawler as a step.
- Check that the engine compartment cover is locked.
- Sit down on the operator's seat.

Adjusting the operator's seat



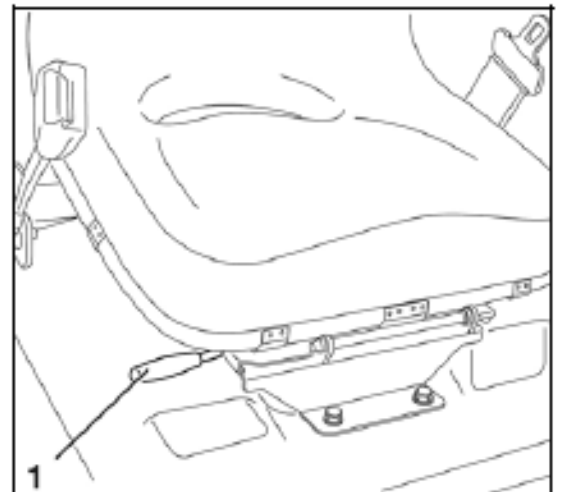
Adjust the operator's seat so that fatigue-free and comfortable working is possible. It should be possible to operate all controls safely.

Horizontal seat adjustment (seat stand-off)

Pull the horizontal seat adjustment lever (1) up and slide the seat to the desired position by moving it forward or back, then release the lever.



Check that the seat is locked into place.



Operation

Fastening the seat belt

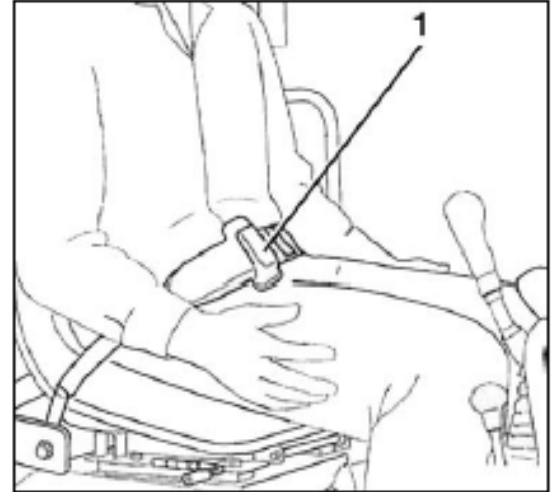


If the engine compartment cover is not locked, the operator's seat can tilt backwards. Before buckling up the seat belt, check that the engine compartment cover is locked.

- Fasten the seat belt (1).
- Be sure that the seat belt is tightly fastened.



Do not operate the excavator without the seat belt fastened.



Starting and stopping the engine



Make sure that there are no persons within the excavator's working area. It is essential to warn persons in the vicinity of the excavator by briefly honking the horn.



Make sure that all operational controls are in neutral position. Also make sure the control levers are locked.



Starting and stopping the excavator is only allowed when the operator is sitting on the operator's seat.

Starting the engine



When starting the excavator for the first time on a work day, carry out the pre-operational services (page 49).



Before starting the engine, make the necessary operator station adjustments (page 54).



If the engine does not start immediately, cease the starting procedure. Wait a short time before reattempting a start. If the engine does not start after several attempts, contact skilled personnel. If the battery is discharged, jump-start the excavator (page 74).



Do not use Start Pilot or similar substances as a starting aid.

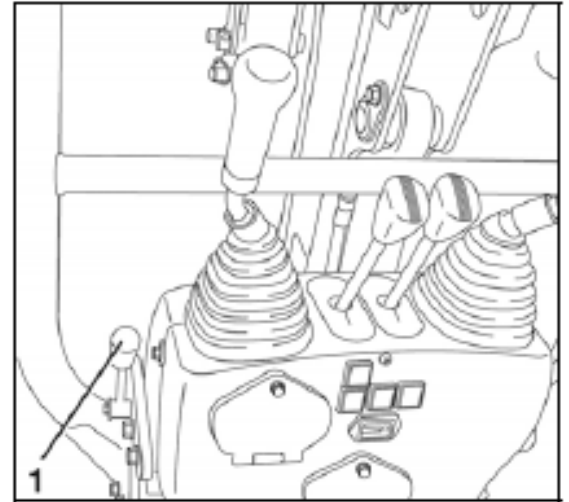
Operation

Under cold engine conditions:

- Set the throttle lever (1) between medium and maximum engine speed.

At engine operating temperature:

- Set the throttle lever (1) to idle speed.



- Insert the key into the starter switch (5) and turn it to the RUN position.



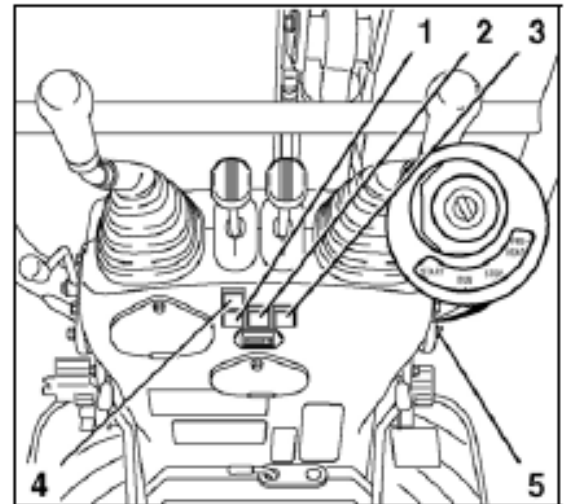
When switching the starter switch to the RUN position, the fuel level indicator (1) and the coolant temperature indicator (4) are tested for functionality. Both indicators will light up for three seconds.

If the fuel level indicator (1) lights up, there are only 2.0 L of fuel left. Refuel the excavator (page 76).

The engine oil pressure indicator (2) lights up and goes off after the engine has started.

The charge lamp (3) lights up and goes off after the engine has started.

The coolant temperature indicator (4) lights up and goes off after the engine has started.



Under cold engine conditions:

- Turn the starter switch to the PREHEAT position for 5 to 15 seconds, depending on the outside temperature.
- Turn the starter switch to the START position and release it as soon as the engine has started.

The switch will return automatically to the RUN position.



Some smoke is normal after starting the engine, even if it lasts a few seconds.

- Set the throttle lever to idle speed and warm up the engine for approx. 5 minutes.



Operate the engine at low speed until operating temperature is reached.

Operation

At engine operating temperature:

- Turn the starter switch to PREHEAT for approx. 5 seconds.
- Turn the starter switch to the START position and release it as soon as the engine has started.

The switch will return automatically to the RUN position.

Set the engine speed required for operation:

- Set the throttle lever to the desired speed.

Check the displays and indicators during operation (page 57).

Stopping the engine



If the engine is to be stopped to take the excavator out of operation, the services for placing the excavator out of operation (page 72) must be carried out.

- Set the throttle lever to idle speed.
- Turn the starter switch to the STOP position and remove the key.

Observation of the displays after starting and during operation

The operator must observe the indicators and displays after starting and during operation.



If the engine oil pressure indicator lights up during operation, immediately stop the engine and contact skilled personnel.



If the charge lamp lights up during operation, immediately stop the engine and contact skilled personnel.



If the fuel level indicator lights up, there are only 2 L of fuel left. Refuel the excavator (page 76).



If the coolant temperature indicator lights up during operation, park the machine at a safe location and allow the engine to idle. Turn off the engine after it has idled for about 5 min. and check the level of the coolant (page 50).

Also stop the engine immediately if

- the engine speed rises or drops suddenly,
- abnormal noises are heard,
- the excavating devices do not respond to the control lever as expected or
- the exhaust fumes are black or white. When the engine is still cold, white smoke for a short time is normal.

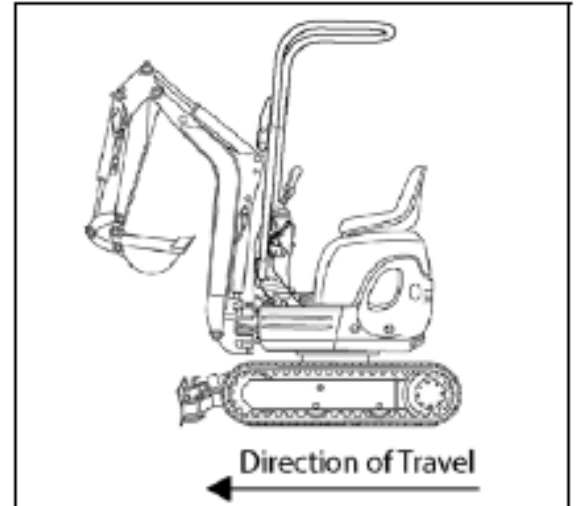
Operation

Driving the excavator

- Adhere to the general safety rules (page 12) and the safety rules for operation (page 46).
- Carry out pre-operational services (page 49).
- Start the engine (page 55).
- Check the displays and indicators (page 57).



Ensure that the boom and the dozer blade are in the direction of travel as shown in the figure.



When driving with the excavator, always observe the following safety instructions.

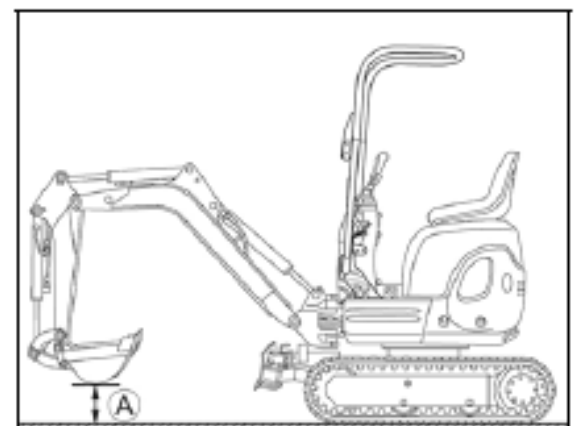
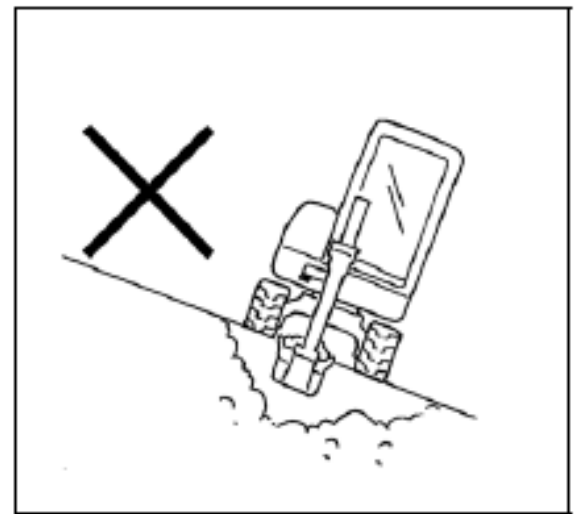
- Lock the swivel frame (page 22).

When working on slopes, observe the tilt of the excavator (see figure).

Max. lateral sway → 18 % resp. 10°

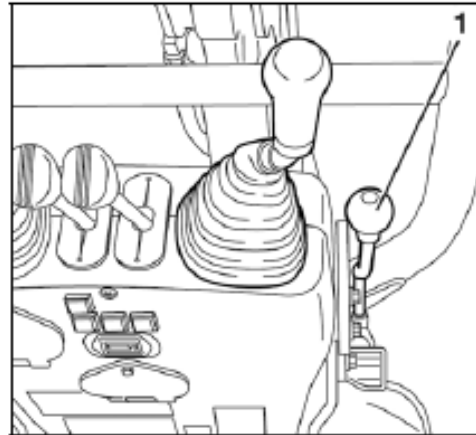
Climbing performance → 27 % resp. 15°

- Keep the bucket as low as possible when driving.
- Check the ground for stability, and verify if there are holes or other potential obstacles.
- Approach overhangs and edges of ditches carefully as they could cave in.
- Drive slowly downhill, do not allow the vehicle speed to increase uncontrollably.
- When driving, the bucket should be approx. 200 to 400 mm (A) above the ground (see figure).



Operation

- Raise the dozer blade to the top position by pulling the dozer control lever (1) back.
- Select an appropriate engine speed.



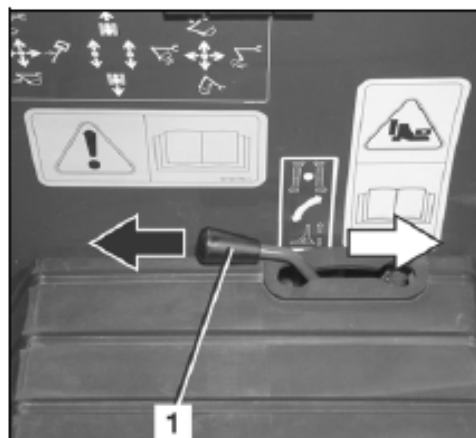
Adjusting the track width of the K008-3

For models with extendable track width, adjust the desired track width prior to operation. To do this:

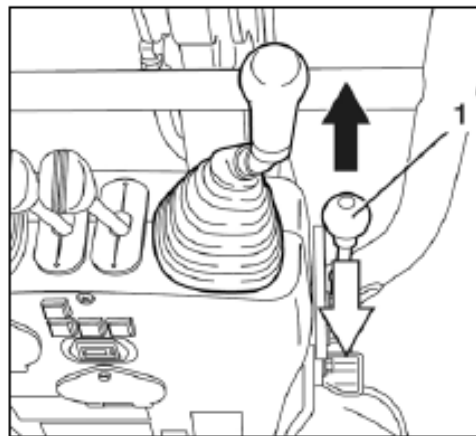
- Move the selector lever for the dozer/extendable track width (1) fully to the right (figure position →).



To change the track width, both track width cylinders need to be either fully extended (standard track width) or retracted (narrow track width).



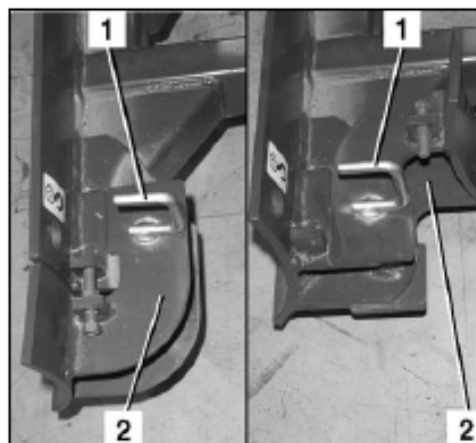
- Using the dozer control lever (1), adjust the desired track width.
- To decrease the track width from 860 to 700 mm, move the dozer control lever forward (figure position ↑).
- To increase the track width from 700 to 860 mm, move the dozer control lever backward (figure position ↓).
- After adjusting the track width, immediately move the selector lever for the dozer/extendable track width fully to the left (figure above, position ←).



Do not operate the excavator with the narrow track width (700 mm), risk of flipping. Always use the standard track width (860 mm) unless you pass through narrow places on a flat surface.

Changing the standard dozer blade width to narrow:

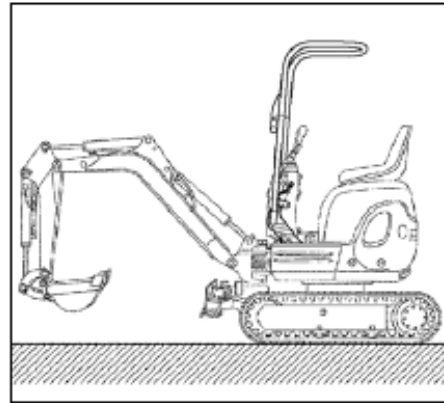
- Pull out the lock pin (1) and remove the dozer extension (2).
- Attach the dozer extension as shown in the figure, fit in the lock pin.
- Use the same procedure for the other side (left or right) as well as for the adjustment of the track width from narrow to standard.



Operation

Swivelling the roll-over safety bar upward and downward and locking it

- Position the front attachments as illustrated.
- Turn off the engine (page 57).



- Pull out the safety bolts (1 and 2).
- Pull out the locking bolts (3 and 4).
- Grasp the upper part (5) of the safety bar firmly with both hands at the highest point possible above the swivel joints.
- Slowly swivel the upper part of the safety bar downward.



Take care to assure that your hands are not crushed during the downward movement.



The excavator must not be operated when the safety bar has been swivelled downward. Always carry out work with the safety bar swivelled upward, unless you drive through a low passageway on a flat surface.

- Swivelling the roll-over safety bar upward is effected in reverse order.



Make sure that the roll-over safety bar in the swivelled upward position is locked by the locking bolts (previous figure/3 and 4) and secured by the safety bolts (previous figure/1 and 2).

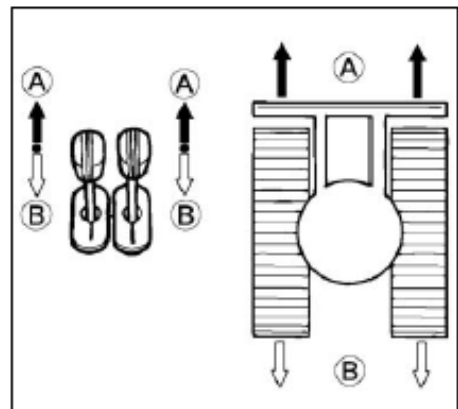
Driving

- Push both drive levers simultaneously forward to drive the excavator straight. Releasing the drive levers stops the excavator immediately.
To reverse the excavator, pull both drive levers back simultaneously.

- (A) Forward
(B) Reverse



If the dozer is not at the front, as shown in the figure, but at the rear, the operation of the drive levers is exactly opposite. Drive levers forward → the excavator drives backwards.

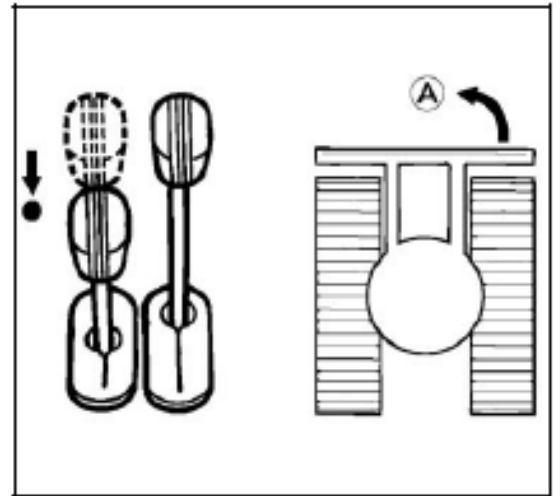


Operation

During driving

- Pull the left drive lever to neutral, leave the right drive lever pushed forward.

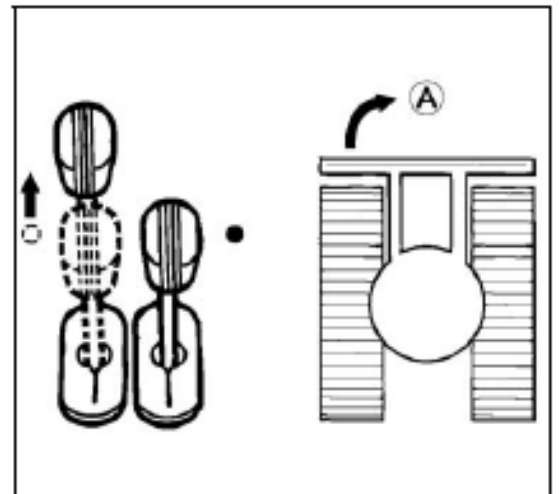
(A) The excavator makes a left turn.



From a standing position

- Leave the right drive lever in neutral, push the left drive lever forward. In this case, the turning radius is determined by the right track.

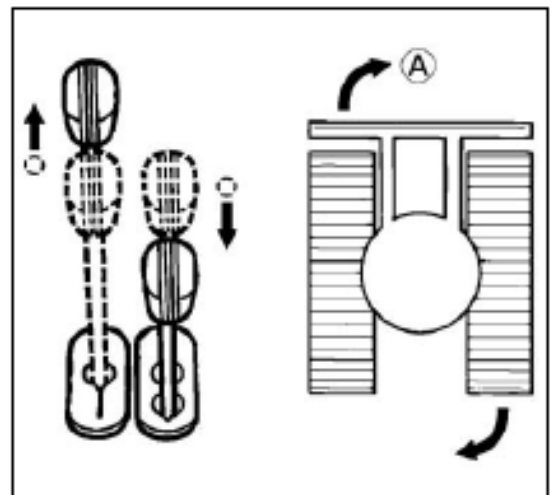
(A) The excavator makes a right turn.



Turning on the spot

- Move the drive levers in opposite directions. The tracks will turn in opposite directions. The centre of the vehicle is the turning axis.

(A) Turning on the spot to the right.



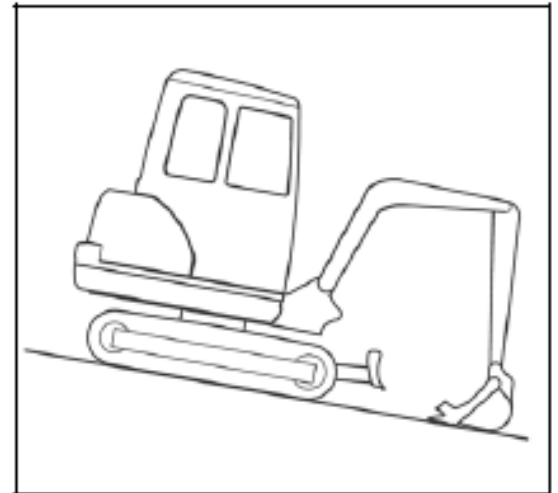
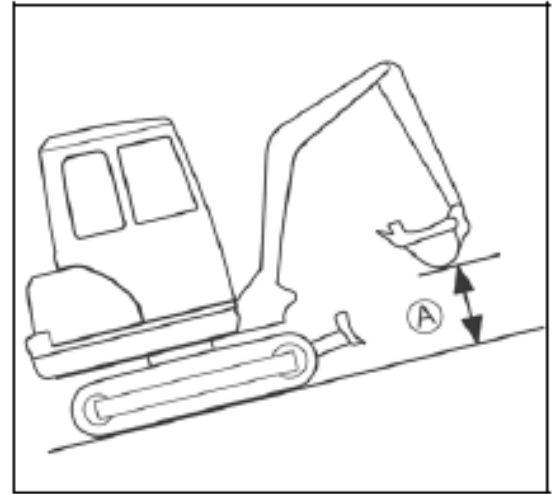
Operation

Driving uphill and downhill



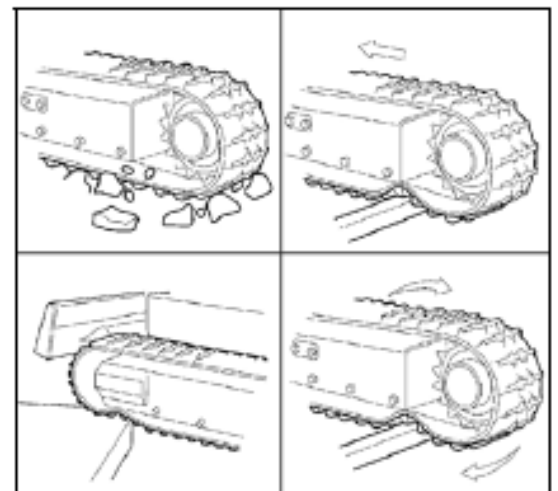
Exercise extreme caution and proceed slowly when driving up and down a slope.

- When driving on gradients, raise the bucket approx. 200 to 400 mm (A) above the ground (see figure).
- When driving on gradients, let the bucket slide over the ground if the terrain allows it.



Notes for rubber crawler operation

- Driving or turning on sharp objects or over steps causes excessive wear on the rubber crawlers and will lead to breaking of the rubber crawler or cause the crawler running surface and the steel inserts to be cut.
- Make sure that no foreign objects get stuck in the rubber crawler. Foreign objects lead to excessive crawler wear and can cause it to break.



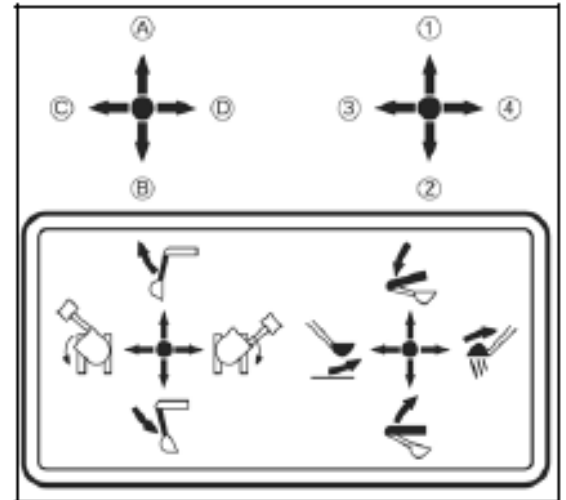
- Keep oil products away from the rubber crawlers.
- Remove any fuel or hydraulic oil spilled on the rubber crawlers.

Operation

Overview of control lever functions

The figure shows, in connection with the following table, the functions of the left and right control levers.

Control levers		Movement
Right control lever	1	Lower boom
	2	Raise boom
	3	Bucket crowd
	4	Bucket dump
Left control lever	A	Arm dump
	B	Arm crowd
	C	Swivel frame to the left
	D	Swivel frame to the right

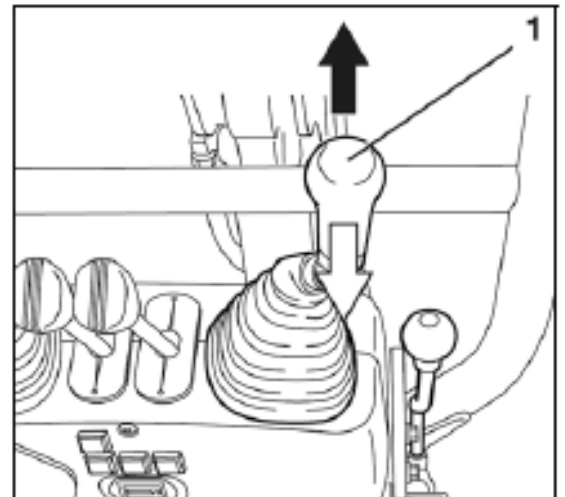


Operating the boom

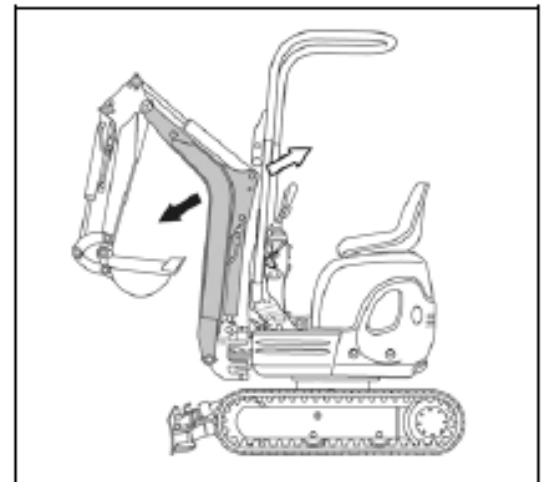
- To raise the boom, pull the right control lever back (figure position ↵).
- To lower the boom, push the right control lever forward (figure position ↴).



Watch the boom during lowering, so that the boom or the bucket teeth do not hit the dozer blade.



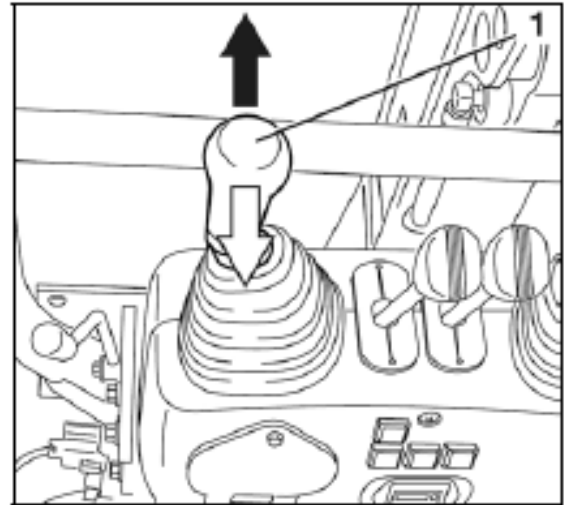
The boom moves as shown in the figure.



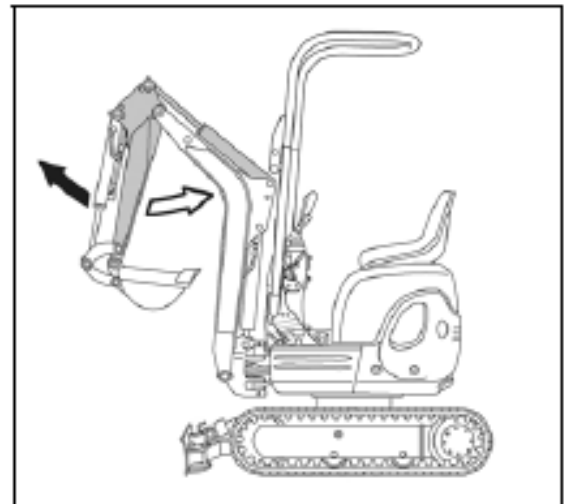
Operation

Operating the arm

- To dump the arm, push the left control lever (1) forward (figure ↑).
- To crowd the arm, pull the left control lever back (figure ↓).



The arm moves as shown in the figure.



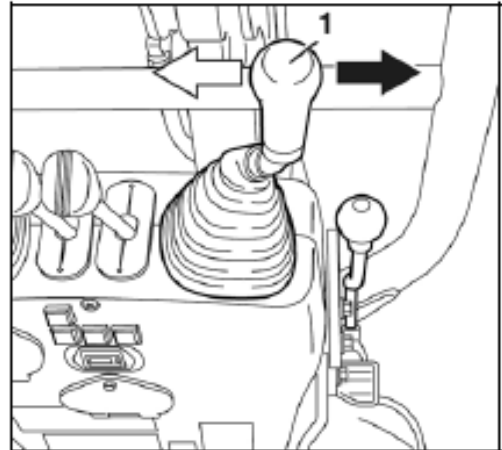
Operation

Operating the bucket

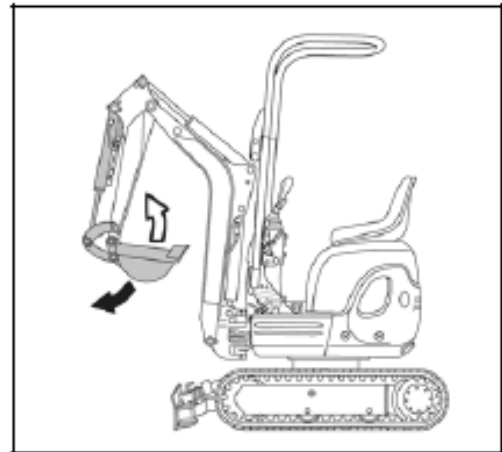
- To crowd (digging) the bucket, move the right control lever (1) to the left (figure position ←).
- To dump (empty) the bucket, move the right control lever to the right (figure →).



When crowding the bucket in, take care that the teeth do not hit the dozer blade.



The bucket moves as shown in the figure.



Swivelling the swivel frame

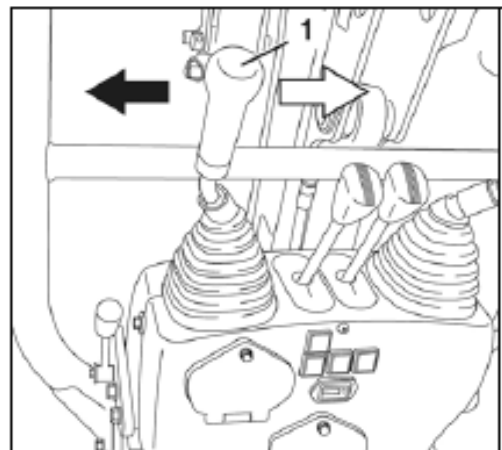


No person is allowed to stand in the swivel area during the movement.

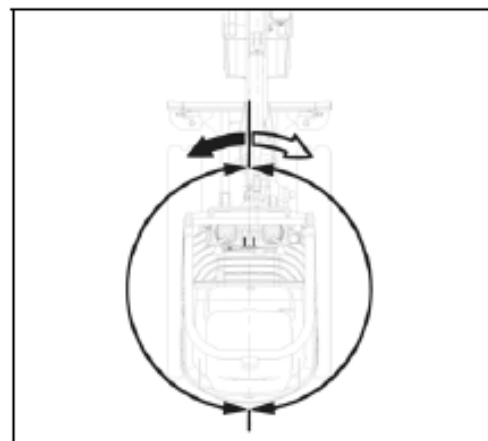


Swivel carefully to avoid any contact of the front attachments with adjacent objects.

- To turn anticlockwise, move the left control lever (1) to the left (figure ←).
- To turn clockwise, move the left control lever to the right (figure →).



The turning operation takes place as shown in the figure.



Operation

Swinging the boom



No person is allowed to stand in the swing area during the movement. Do not move the foot outside the front part of the boom swing pedal → risk of bruising.



Swing carefully to avoid any contact of the front attachments with adjacent objects.

- Tilt the boom swing pedal (figure below, position 1).

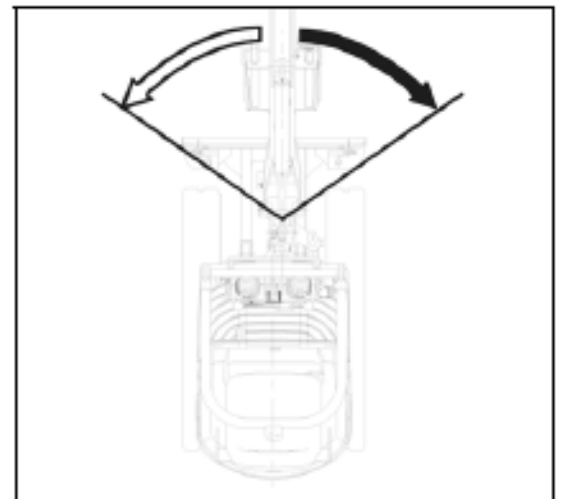


The auxiliary port pedal (figure below, position 1) can be secured against inadvertent operation by lowering its rear part. When the boom swing pedal is not in use tilt the rear part of the boom swing pedal forward.

- To swing clockwise, press the boom swing pedal downward onto the rear part (figure position ↓).
- To swing the boom to the left, press the boom swing pedal downward onto the front part (figure position ↓).



The figure details the swing movement.



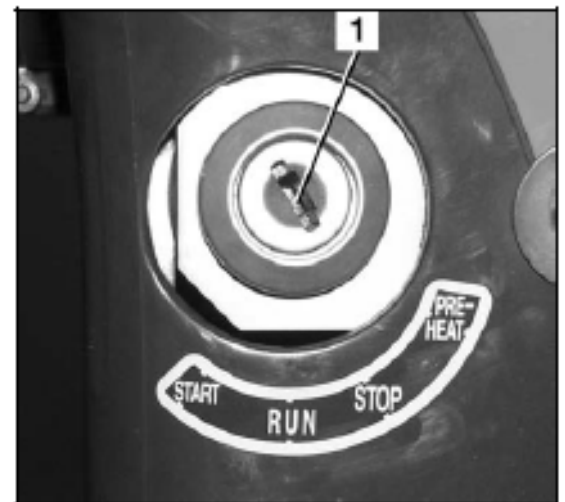
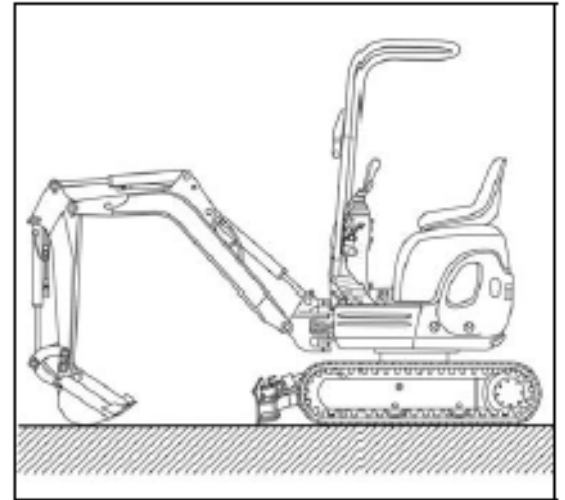
Operation

Placing out of operation



Park the excavator in such a way that it can not move and is secured against unauthorised use.

- Drive the excavator on level ground. The machine should be parked under a roof.
- All hydraulic cylinders have to be extended half way (see figure), the boom has to be in line with the excavator, the dozer has to be lowered to the ground and the extendable track width has to be set to standard track width.
- Lock the swivel frame and the control levers (page 21, 22).
- Reduce the engine speed to idle speed and let the engine run for approx. 5 minutes to let it cool down.
- Turn the starter switch (1) to the STOP position, remove the key. The key must remain with the operator.
- Unbuckle the seat belt.
- Check the excavator for external damage and for leaks. Any defects must be repaired before the next start.
- In case of a heavy accumulation of dirt in the area of the tracks and the hinges at the front attachments, clean the excavator (page 87).
- Refuel the excavator, if necessary (page 76).



Working light

- The starter switch is in the RUN position.
- Press the working light button (1). Both the working lights and the instrument lighting are turned on.
- Press the button again to switch off.



During work on public roads other road users must not be blinded.



Operation

Emergency stop functions

In an emergency, the engine can be stopped manually.

Manual engine stop

If the engine cannot be stopped with the key, it can be stopped manually.



You can only stop the engine with the starter switch when the speed lever is pushed back (idle speed).

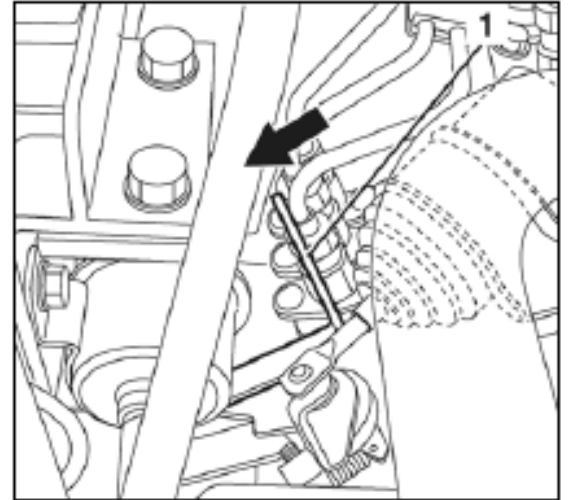
- Open the engine hood (page 78).
- To stop the engine, push lever (1) in direction of arrow until the engine is stationary.



Caution! Do not touch the fan wheel → risk of injury.

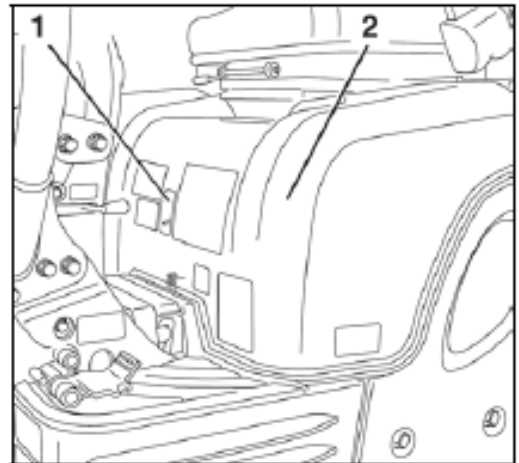


The excavator may only be taken back into operation after the malfunction has been eliminated.

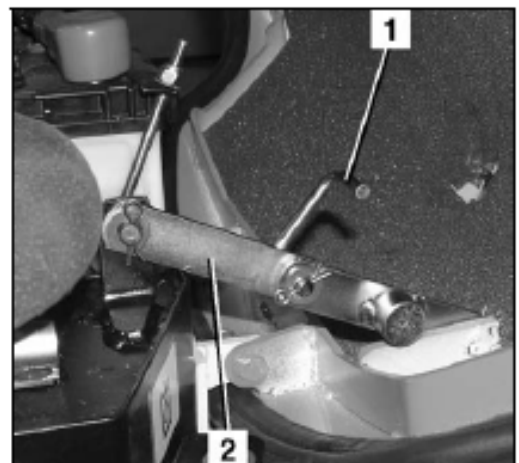


Opening and closing the engine hood

- Pull lever (1) up and tilt the engine hood (2) backward. The engine hood will stay in the open position because of the mounting.



- To close, pull up the lever (1) at the mounting (2), then flip the engine hood forward until it snaps in.



Operation

Refuelling the excavator



When refuelling the excavator, smoking, an open flame, or other sources of ignition are not allowed. The danger zone must be marked with signs. A fire extinguisher must be kept at hand in the danger zone.



Spilled fuel must be bound immediately with an oil binding agent. The contaminated oil binding agent must be disposed of in accordance with the applicable environmental regulations.



If no pumping station is available, the diesel fuel may only be stored in approved canisters.

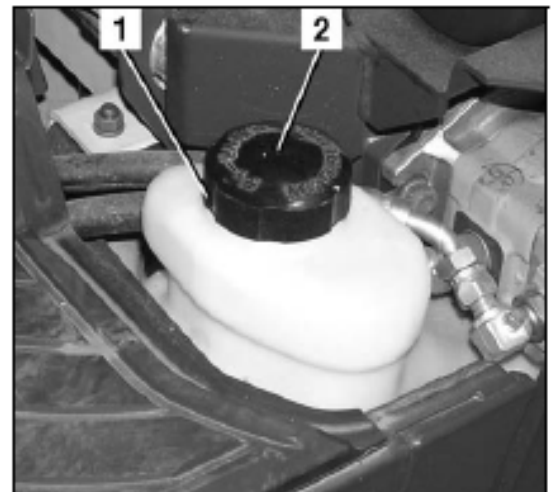


Refuel the excavator in time so that the fuel tank is not running empty. Air in the fuel system can damage the fuel injection pump.

- Stop the engine.
- Open the engine hood (page 78).
- Open the filler cap (1).
- Fill diesel fuel up to the base of the filler tube.
- Clean the air filter (2) inside the filler cap.



Mud at the air filter causes a depression inside the fuel reservoir.



- Close the filler cap and the engine hood.

Bleeding the fuel system



If the excavator fuel tank was run empty or the water separator was cleaned, the fuel system must be bled.

- To bleed the fuel system, move the starter switch to the RUN position. The electrical fuel pump will bleed the fuel system automatically within approx. 60 s.
- If the bleeding was insufficient, the engine will stop again. In this case repeat the procedure.

Changing Excavator Buckets



1. Rest the bucket lightly on level ground (to avoid putting pressure on the bucket pins)



2. Remove the two lynch pins



3. Push bucket pins out with large screwdriver (do not hit with hammer). If they don't slide easily reduce pressure from arm. Don't allow removed bucket pins to collect dirt or grit.



4. Lift boom up, away from bucket



5. Place new bucket under links



6. Lower boom to line up holes, making small adjustments as necessary



7. Slide bucket pin in by hand (it should slide in easily, no hammering) and fit lynch pin. (Note: some buckets have lynch pin locators on opposite side)



8. Lift bucket in the air



9. Lower rear link (crowd bucket) and line up bucket pin and link by hand



10. Slide bucket pin in, wiggling bucket if necessary and fit lynch pin

!!! IMPORTANT: injury risk - keep fingers out of holes !!!

Breakdown Advice

General Breakdowns

Should the excavator develop a problem of any kind please call us immediately (or during normal opening hours) on 01235 814000. We offer a full on-site breakdown service and are normally able to attend within 60 minutes.

Damage to Hydraulic Hoses

Damage to hydraulic hoses is the responsibility of the hirer, but we are pleased to attend site during normal working hours and make the necessary repairs (charging at cost).

If a hose needs replacing outside of normal working hours you are welcome to arrange the repair yourself, but strictly at your own cost. There are a number of 'Hose Doctors' that operate locally.