ORIGINAL INSTRUCTIONS

CX17C
Mini Excavator

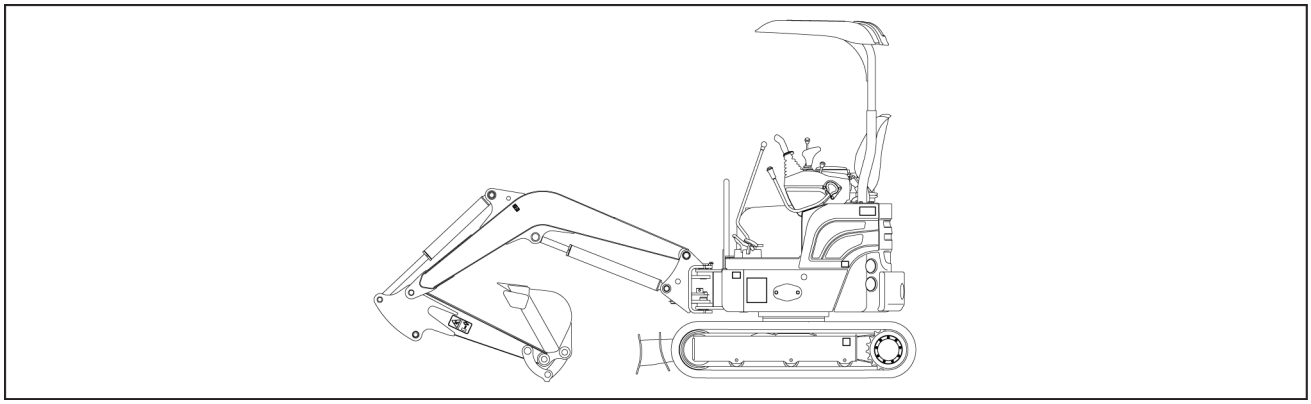
OPERATOR'S MANUAL

Part number 51680374
1st edition English
September 2019

CASE CONSTRUCTION

Product identification

Your machine is a hydraulic excavator. It consists of an undercarriage fitted with tracks and a swing bearing which supports the upper-structure frame. The upper-structure frame supports the attachment at the front end of the machine, plus the engine, hydraulics and the canopy. When the operator works the controls, the engine-driven pump delivers hydraulic fluid to the control valves. The control valves distribute the hydraulic fluid to the various cylinders and hydraulic motors employed. A cooling system maintains the hydraulic fluid at normal operating temperature.



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When ordering parts, obtaining information, or seeking assistance, always supply your CASE CONSTRUCTION Dealer with the type and Product Identification Number (PIN) of your machine or accessories.

Write the following in the spaces below:

- Machine Type
- Machine PIN
- Machine year of manufacture
- Serial numbers of hydraulic and mechanical components

B. As the engine owner, you should be aware, however, that KUBOTA may deny your warranty coverage if your engine or a part has failed due to abuse, vandalism, neglect, improper maintenance or unapproved modifications.

C. Your engine is designed to operate on Ultra Low Sulfur Diesel Fuel only. Use of any other fuel may result in your engine no longer operating in compliance with Federal or California's emissions requirements.

D. You are responsible for presenting your engine to the nearest dealer or service station authorized by KUBOTA when a problem exists. The warranty repairs should be completed in a reasonable amount of time, not to exceed 30 days.

E. If you have any questions regarding your warranty rights and responsibilities or the location of the nearest authorized dealer or distributor, you should contact:

KUBOTA ENGINE AMERICA CORPORATION, Service Department at 1-800-532-9808, kea_g.eewri@kubota.com or KUBOTA TRACTOR CORPORATION, National Service Department at 1-800-558-2682, KubotaEmissionsWarranty@kubota.com or KUBOTA CANADA LTD at (905) 294-7477.

COVERAGE

KUBOTA warrants to the initial purchaser and each subsequent purchaser that your engine will be designed, built and equipped, at the time of sale, to meet all applicable regulations. KUBOTA also warrants to the initial purchaser and each subsequent purchaser that your engine shall be free from defects in materials and workmanship which cause the engine to fail to conform to applicable regulations for the period mentioned above from the original date of sale.

KUBOTA shall remedy warranty defects at any authorized KUBOTA engine dealer or warranty station. Any authorized work done at an authorized dealer or warranty station shall be free of charge to the owner if such work determines that a warranted part is defective. Any KUBOTA approved or equivalent replacement part (including any KUBOTA approved aftermarket part) may be used for any warranty maintenance or repairs on emission related parts, and must be provided free of charge to the owner if the part is still under warranty.

KUBOTA is liable for damages to other engine components caused by the failure of a warranted part still under warranty. The use of replacement parts not equivalent to the original parts may impair the effectiveness of your engine emission control system. If such a replacement part is used in the repair or maintenance of your engine, and KUBOTA determines it is defective or causes a failure of a warranted part, your claim for repair of your engine may be denied.

Listed below are the parts covered by the Federal and California Emission Control Systems Warranty. Some parts listed below may require scheduled maintenance and are warranted up to the first scheduled replacement point for that part. The warranted parts are (if applicable):

the necessary steps to warn others not to attempt to operate the machine.

- Before tilting the seat back forward, it is mandatory to raise the armrests to avoid any accidental operation of the control levers.
- Never turn the key of the battery master switch to “O” (Off) position when engine is running. The electrical systems can be damaged.
- When the engine is stopped, always wait three minutes minimum before you place the key of the battery master switch in “O” (Off) position, otherwise the program of the machine controllers will not exit successfully.

⚠ Preventing risks caused by vibrations⚠

The machine's vibration affects the comfort and in some cases the health and safety of the operator. To reduce vibration risks to a minimum:

1. Make sure that the machine, the equipment, and the tool are suitable for the work to be carried out.
2. Make sure that the machine is in good condition and that servicing intervals are complied with.
3. Check the track tension adjustment and the play in equipment linkages.
4. Make sure that the operator's seat and adjustment controls are in good condition and then adjust the seat to suit the operator's size and weight.

During work:

1. Operate all controls gradually to ensure smooth machine operation.
2. Modify the machine's operation to suit the working conditions.
3. During travel, adjust the machine's speed, reducing it if necessary.
4. Make sure that the machine's operating radius is in good condition, and free of obstacles and holes.

⚠ Quick coupler (optional)⚠

- Never place the control switch in the unlocked position when the machine is working.
- Each time a bucket is installed on the quick coupler, close the bucket and raise the attachment so as to be able to make a visual check that the bucket pin is correctly engaged in the latching hook.
- The quick coupler modifies the working range of the machine. In certain attachment positions the tool may damage the machine. Always leave a safe distance between the quick coupler and the machine..
- Never carry out load handling using the front or rear anchoring points used to install the tool on the quick coupler.
- Never put your hands inside the quick coupler. Never attempt to adjust or repair the quick coupler if the engine is running.

⚠ Parking the machine⚠

When parking the machine, proceed as follows:

1. Position the machine on flat, level ground, away from soft ground, excavations, or poorly shored cavities.
2. Place the upper-structure and the attachment in line with the undercarriage, retract the attachment, and dig the bucket into the ground.
3. Lower the dozer blade (if equipped) until it rests on the ground.
4. Place the gate lock lever in central position before leaving the operator’s compartment.
5. Stop the engine and remove the ignition key.
6. Lock the cab door.
7. Make sure that the hoods and doors are properly latched.
8. Check that no part of the machine is encroaching on the highway. If this cannot be avoided, install the necessary regulation signaling equipment.

⚠ Maintenance and adjustments⚠

- Do not try to service this machine unless you have first read and understood the safety messages and instructions featuring in this manual.
- When carrying out service work always wear suitable attire. Avoid loose-fitting clothing.
- Release pressure completely in the hydraulic system before disconnecting the hydraulic lines. Hydraulic oil escaping under pressure can cause serious injury.
- Before doing maintenance work on the machine, shut down the engine and allow it to cool down. Otherwise, you could be burned.
- Before commencing any work on the machine, place a "Do not operate" tag on the right-hand control arm.
- Always wear eye protection when using a tool that might project metal particles. Use a hammer with a soft face, such as copper, for installing pins.

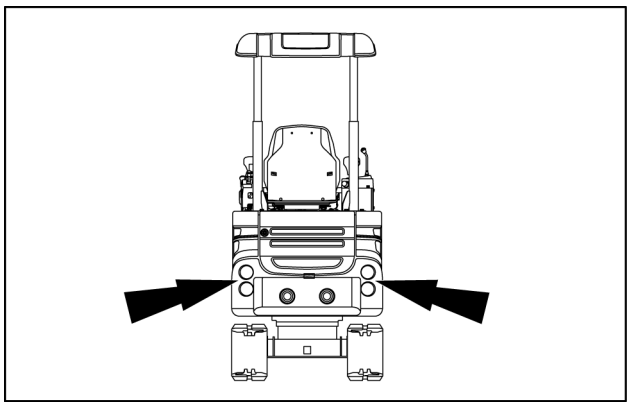
(1) Reflecting sign

Location: the reflecting signs are located in the rear side of the machine.

Quantity: 2

Part number: 48025083

The reflecting sign increases the night-time visibility.



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(2) Keep out of work range of upper structure

⚠ DANGER

Avoid injury!
Keep clear of the swing area. Ensure that any person near the working site is outside the swing area before you start or operate the machine. Sound the horn before you start or operate the machine.
Failure to comply will result in death or serious injury.

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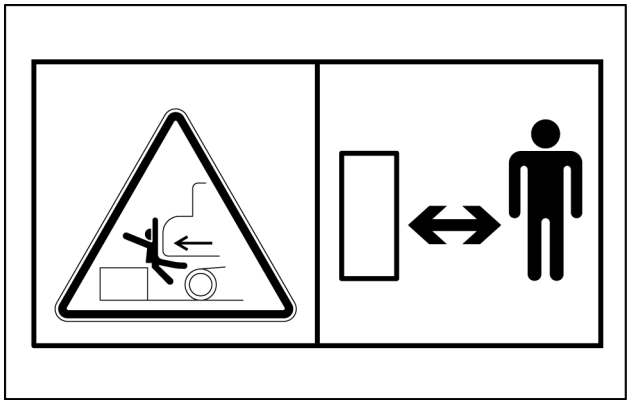

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Location: these signs are located on the both sides of the machine.

Quantity: 2

Part number: 48018117

This sign cautions the operator that entry into the work range of the upper structure is forbidden while the engine is running.

(3A) Engine access door support caution - Stop the engine

⚠ WARNING

Entanglement hazard!
Always stop the engine and engage the parking brake, unless otherwise instructed in this manual, before checking and/or adjusting any drive belt or chain.
Failure to comply could result in death or serious injury.

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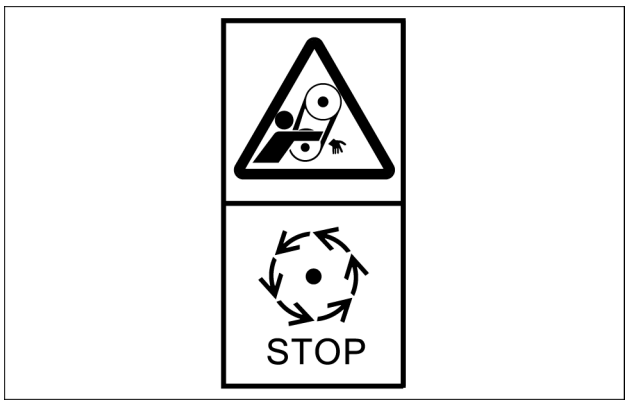

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Location: this sign is located on the engine access door support.

Quantity: 1

Part number: 48025076

This sign indicates that you should stop the engine before opening the access door.

(18) Accumulator

⚠ WARNING

Pressurized system!
Do not drop the accumulator. A charged accumulator contains nitrogen compressed to 31 bar (450 psi). If the charging valve breaks away from the accumulator, the escaping nitrogen will propel the accumulator at a dangerous rate of speed.
Failure to comply could result in death or serious injury.

W0957A

⚠ WARNING

Pressurized system!
Do not expose the accumulator to temperatures above 49 °C (120 °F). A charged accumulator contains nitrogen compressed to 31 bar (450 psi). High heat will cause the safety plug to blow out of the accumulator, and the escaping nitrogen will propel the accumulator at a dangerous rate of speed.
Failure to comply could result in death or serious injury.

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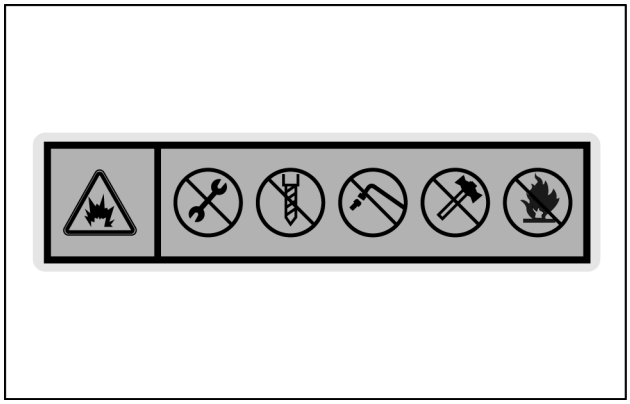

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Location: this sign is located on the accumulator of the solenoid valve.

Quantity: 1

Part number: 48019423

This sign warns that accumulator is filled with high pressure gas so that near-by fire activity or welding is prohibited.

Consult the CASE CONSTRUCTION Dealer for the service.

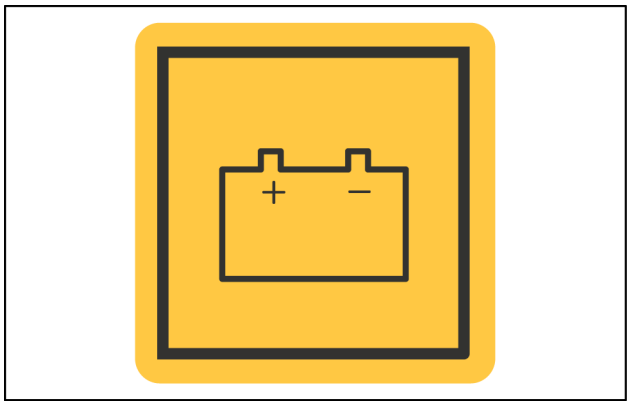
(19) Battery position

Location: this sign is located on the left-hand panel of the machine.

Quantity: 1

Part number: 48019084

This sign indicates the position of the battery.



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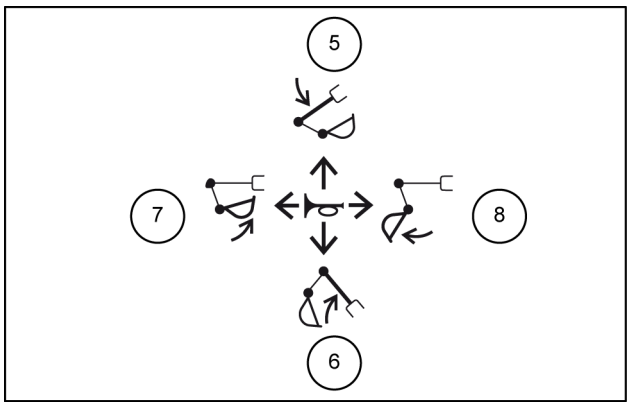
Right-hand control lever:

5. The boom lowers.
6. The boom raises.
7. The bucket retracts (filling).
8. The bucket extends (dumping).

NOTE: *the movement speed of the boom or of the bucket depends on the control lever tilt angle. In the intermediate position two movements can be obtained simultaneously.*



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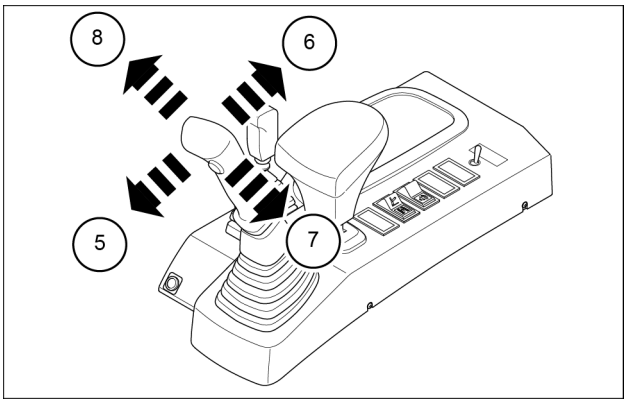

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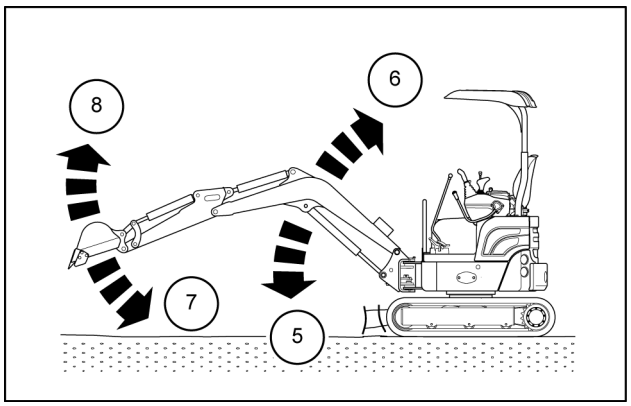


SMIL16MEX2316AB 6

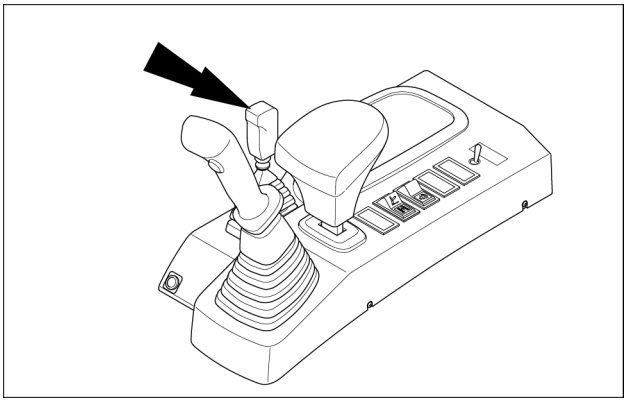
Dozer blade control lever

⚠ WARNING

Hazard to bystanders!
ALWAYS make sure the work area is clear of bystanders and domestic animals before starting this procedure. Know the full area of movement of the machine. Do not permit anyone to enter the area of movement during this procedure.
Failure to comply could result in death or serious injury.

W0245A

The dozer blade control lever is located on the right-hand console.
It can be used to operate the dozer blade or the track widening frame control selecting one of the two position of the switch **(1)** which enables the operator to operate the dozer blade or the crawler tracks widening.



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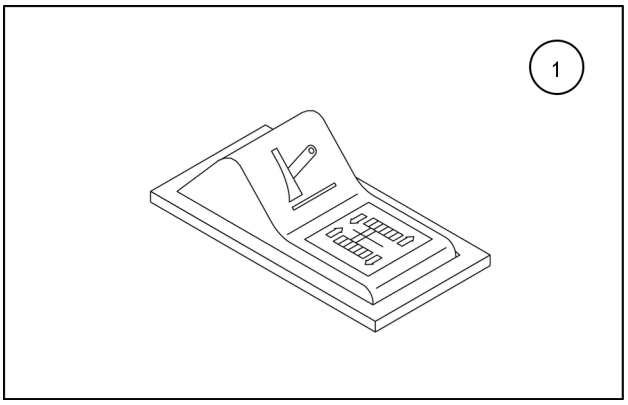

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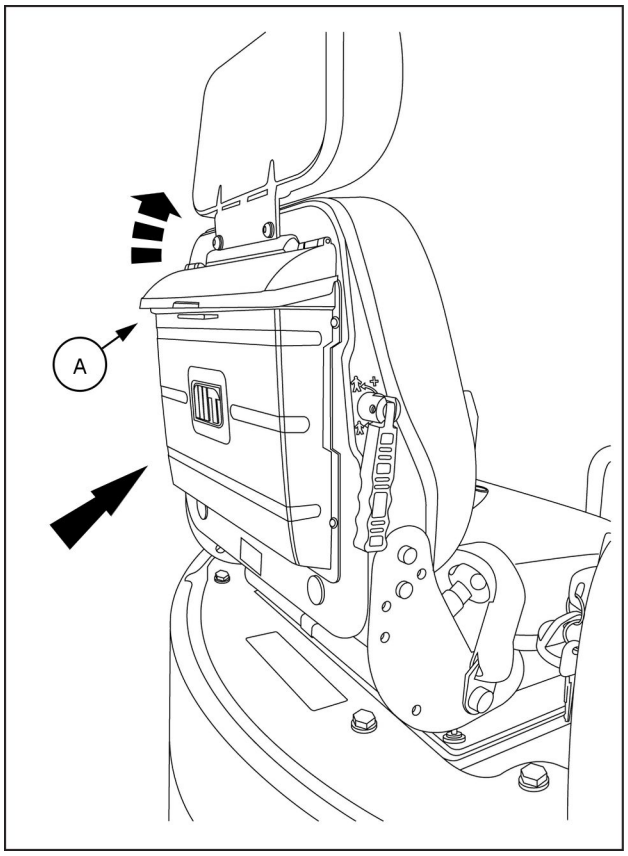
Rearward controls

Storage compartment

Located on the rear side of the operator's seat, this compartment is used to store various objects.

Simply raise the cover **(A)** to open the storage compartment.



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Bringing the machine up to operating temperature

Before starting operation, allow the main systems to warm up to their normal operating temperature.

NOTE: *the normal operating temperature for the hydraulic fluid is* ***50 – 80 °C*** *(****122 – 176 °F****).*

NOTICE: *do not operate the machine if the temperature of the hydraulic fluid is below* ***25 °C*** *(****77 °F****).*

The warm-up procedure is necessary for proper and safe machine usage. Proper warm-up allows for the best possible machine performance and fuel efficiency.

NOTICE: *the warm-up of the machine is mandatory when operating in severe winter climates.*

NOTICE: *the warm-up of the machine prevents wear and severe damages to the engine, to the fuel system, and to the hydraulic system.*

NOTICE: *the exhaust pipe becomes extremely hot while the engine is idling. Make sure that there is no flammable material such as plants, dried grass, paper waste, oil and old tires close to the exhaust pipe before starting warm-up procedure.*

NOTICE: *never cover the grids of the radiators with flammable materials.*

1. Start the engine and let it run for approximately **5 – 10 min** with no load.
2. Set the engine speed lever to mid-range speed.
3. Set the safety lock lever to UNLOCK position (frontward position).
4. Operate the bucket control lever for **5 min**.

   NOTICE: *do not operate any control lever except the bucket control lever.*
5. Set the engine speed lever to high speed.
6. Operate the bucket control lever and the arm lever for approximately **5 – 10 min** with no load.

   NOTICE: *operate only the bucket control lever and the arm control lever.*
7. Complete the warm-up procedure by operating the controls for all cylinders, travel, and swing for 3 to 4 times to circulate warmed hydraulic fluid into the whole circuit.

Check the following items after reaching normal operating temperature of the fluids:

- Exhaust gas is normal.
- No unusual noise or vibration.
- No leak of oil, fuel or water.
- No unusual noise when activating the hydraulic equipment.
- Inspection of the horn, buzzer, working light, and instrument cluster.
- Proper display of the engine coolant temperature gauge.
- Check the visibility from the view mirrors before operation. Adjust and clean up dirt as necessary.
- Check each operation (travel, front equipment, and swing).

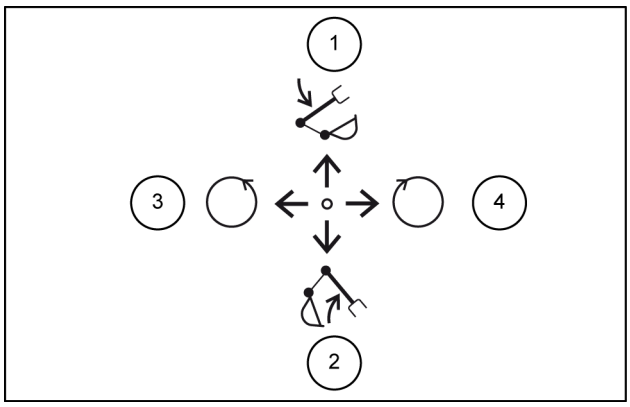
If any of the following occurs during the warm-up procedure, stop the engine immediately.

- Engine speed increases or decreases rapidly.
- Engine sound and exhaust gas color are abnormal.
- The display screen displays any message and warning sound beeps.

Pattern: SAE type

Left–hand control lever control function

1. Boom lowering
2. Boom raising
3. Swing left-hand
4. Swing right-hand



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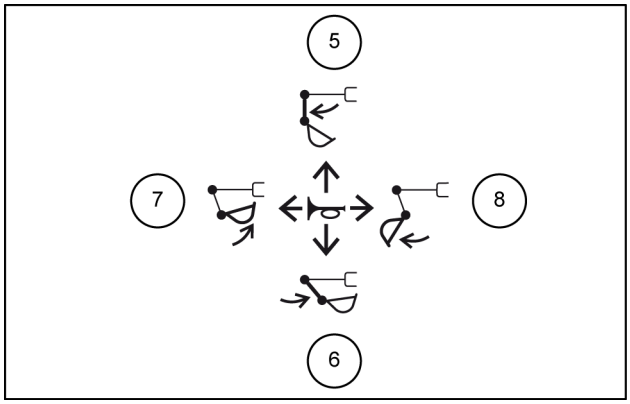
Right–hand control lever control function

5. Arm out
6. Arm in
7. Bucket in
8. Bucket out



SMIL16MEX3079AB 7

Precautions for travelling on slopes

When traveling on a sloping ground, the machine becomes unstable, unbalanced, and difficult to control. Therefore, the following operating prescriptions shall be strictly respected.

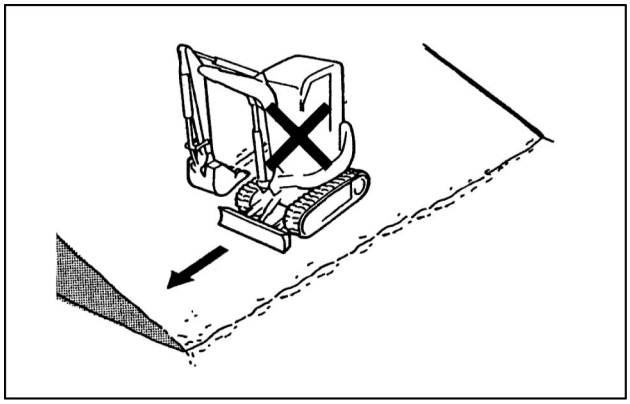
Always travel with the undercarriage oriented along the slope, never across. Never travel along a slope steeper than **20°**.

If going across a slope is needed to reach a specific work place, make sure to follow an alternative path that is made by traveling along the slope, as outlined in the pictures.

Always select the slow speed travel mode, and operate the travel controls in order not to suddenly increase or decrease the speed of the machine.

NOTICE: *never shift the travel mode to the fast speed range while traveling on slopes, as this suddenly increases the speed and makes the machine unstable and difficult to control.*

NOTICE: *when the hydraulic oil is not sufficiently warm, the machine may not be able to develop its full performance. Before traveling on a steep slope, make sure to carry out a complete preheat of the machine main systems.*



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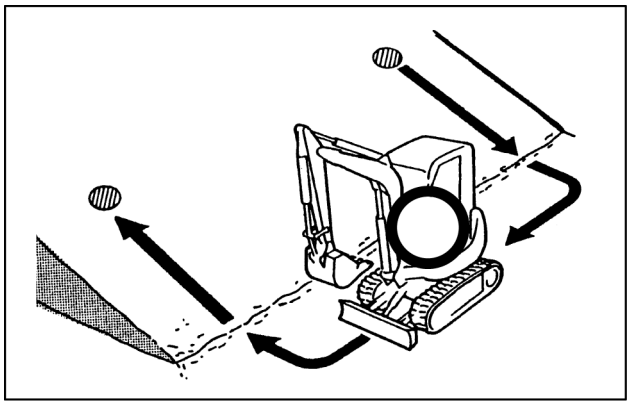

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Recovery transport

Towing the machine

⚠ WARNING

Misuse hazard!
Towing is a delicate maneuver that is always carried out at the risk of the user. The manufacturer's warranty does not apply to incidents or accidents that occur during towing. Where possible, carry out the repairs at the site.
Failure to comply could result in death or serious injury.

W0286A

⚠ WARNING

Hazard to bystanders!
The operator must be the only person on the machine when towing. Make sure that nobody else is on the machine or within its working range.
Failure to comply could result in death or serious injury.

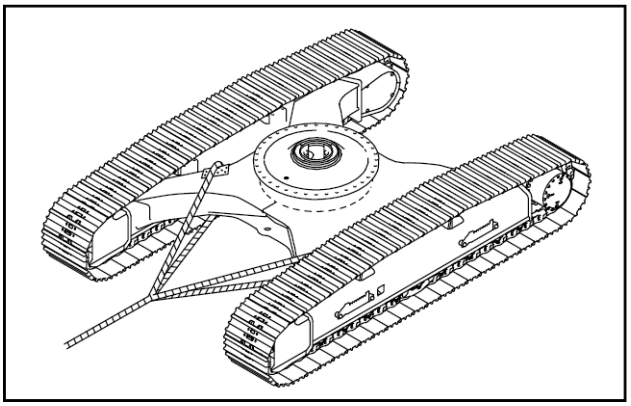
W0259A

As far as possible try to carry out repairs on spot or consult your CASE CONSTRUCTION Dealer.

NOTICE: *the machine must be towed very slowly, over a short distance and only if it is really unavoidable. Always tow the machine in alignment with the undercarriage.*

If the machine is stuck, it must be towed as follows:

1. Make sure that it can be towed without risk of further damage.
2. Make sure that the shackles, chains and tackle are in perfect condition and strong enough to move the load.
3. Attach the shackles, chains and tackle to the under-carriage taking care to protect any protruding angles.
4. Pull the machine without jerking, very slowly and in alignment with the undercarriage.



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Fuel

For Europe only: use only Ultra-Low Sulfur Diesel (S10) that meets **EN 590** specifications.

For North America only: use only No. 2-D Ultra-Low Sulfur Diesel (S15) that meets **ASTM D975** specifications.

Using other types of fuel may lead to stalled engine output or deterioration in fuel economy.

NOTICE: *the warranty shall be invalid if any serious defect is caused by usage of any other fuel. Using fuel other than recommended may cause damage to the fuel injection pump, injector, and other fuel supply system or the engine. CASE CONSTRUCTION may not be responsible to any of such damages.*

If the temperature drops below the fuel cloud point, output deficiency or engine start problems may occur due to wax crystals.

For North America only: during cold weather, lower than **-7 °C** (**19.4 °F**), it is temporarily acceptable to use a mixture of No. 1-D (S15) and No. 2-D (S15).

NOTICE: *if operating in severe winter climate, consult the fuel supplier or the CASE CONSTRUCTION dealer for specific diesel fuel to be used.*

The diesel fuel to be used on the machine shall:

- be free from dust particles, even minute ones.
- have the proper viscosity.
- have a high cetane number.
- present great fluidity at low temperatures.
- have low sulfur content.
- have very little residual carbon.

NOTICE: *never use a mix of diesel fuel and old engine oil. The fuel injection system and the exhaust after treatment system will be severely damaged.*

NOTICE: *consult the fuel supplier or the CASE CONSTRUCTION dealer regarding appropriate use of fuel additives.*

NOTICE: *in order to prevent condensation during cold weather, fill the fuel tank to full after completing the day's work.*

Fuel storage:

Long storage can lead to the accumulation of impurities and condensation in the fuel. Engine trouble can often be traced to the presence of water in the fuel. The storage tank must be placed outside and the temperature of the fuel should be kept as low as possible. Drain off water and impurities regularly.

Break-in period

Fuel filter

Replace the fuel filter after the first **250 h**.

To replace the fuel filter perform the operations described on page **6-47**.

Travel reduction gears

Replace the travel reduction gears oil after the first **250 h**.

To replace the travel reduction gears oil perform the operations described on page **6-54**.

Grease points (Bucket)

Lubricate the bucket linkage (arm-bucket connection and arm-bucket link connection) and the bucket cylinder pin (rod side) every **10 h** within the first **50 h**, then lubricate every **50 h**.

Lubricate the bucket cylinder pin (head side) every **10 h** within the first **100 h**, then lubricate every **250 h**.

To lubricate the bucket linkage and the bucket cylinder pin (rod side) refer to page **6-27**.

To lubricate the bucket cylinder pin (head side) refer to page **6-42**.

Grease points (Boom and arm)

Lubricate the boom connection pin, the boom cylinder pins, the arm cylinder pins, the arm connection pin, and the boom swing post every **10 h** within the first **100 h**.

To lubricate the boom connection pin, the boom cylinder pins, the arm cylinder pins, the arm connection pin, and the boom swing post refer to page **6-42**.

Grease points (Blade)

Grease the dozer blade cylinder (head and rod) and the lower frame connecting points with the dozer blade every **10 h** within the first **50 h**.

To grease the dozer blade cylinder (head and rod) and the lower frame connecting points with the dozer blade refer to page **6-28**.

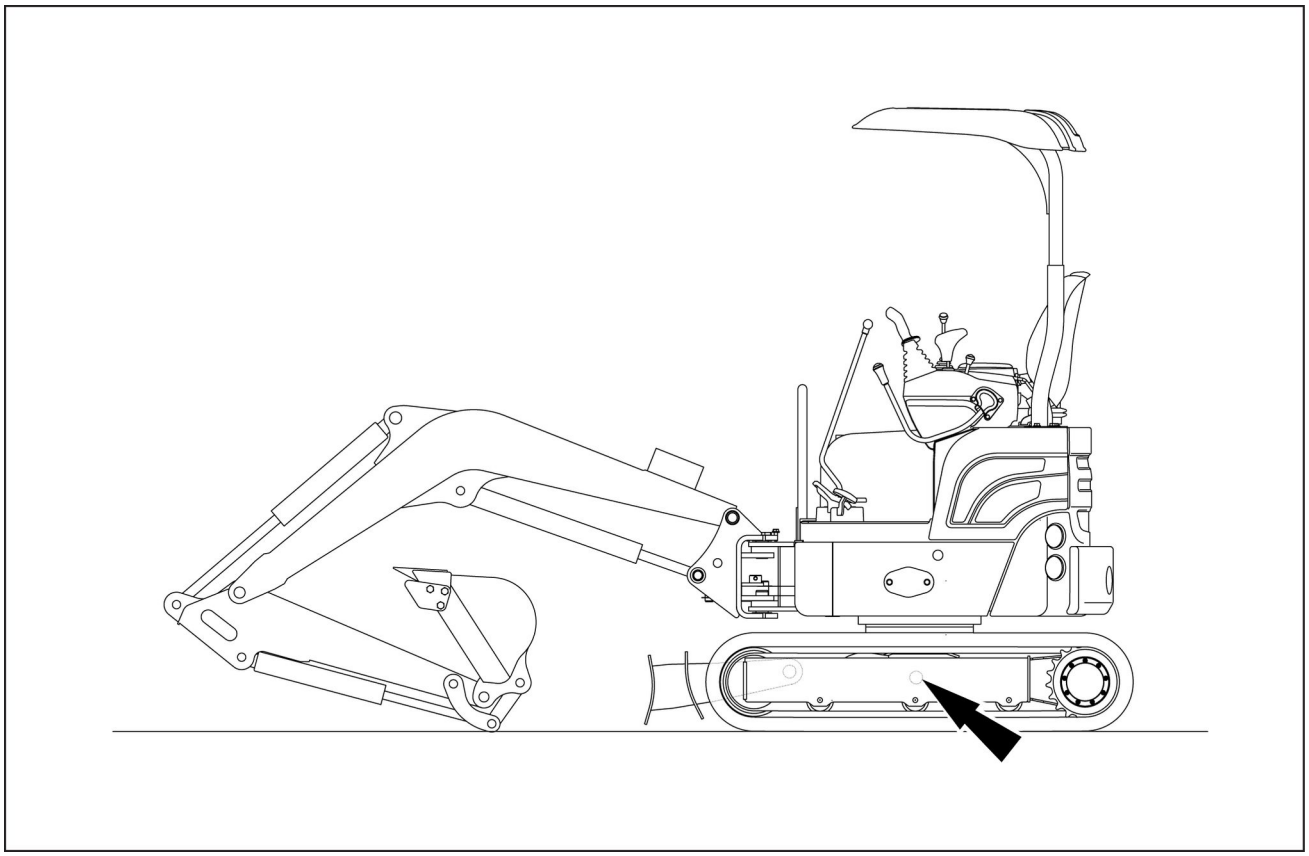
Grease points (Boom swing cylinder)

Grease the boom swing cylinder every **10 h** within the first **50 h**.

To grease the boom swing cylinder, refer to page **6-44**.

Grease points (Extension cylinder)

Grease the blade every **50 h** (after the break-in period).
Lubricant: **CASE AKCELA MOLY GREASE**



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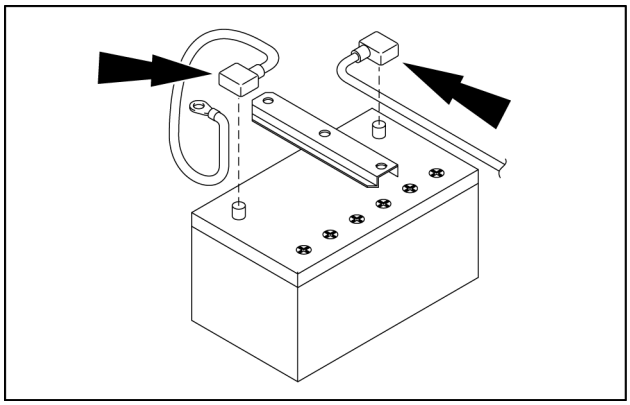
Extension cylinder pin: two grease fittings

NOTICE: *if you operate the machine in water or mud, you must lubricate the extension cylinder connection pins every* ***10 h****.*

Cleaning of the battery

1. Wash the terminal with hot water, and apply grease to the terminals after washing.



SMIL16MEX2521AB 2

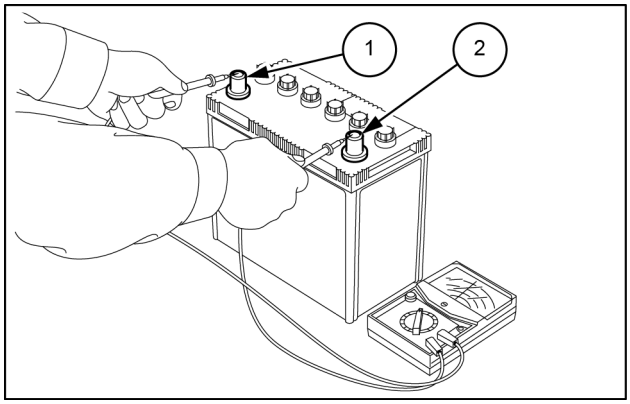
Battery voltage check

NOTICE: *if the machine is to be operated for a short time without battery (using a slave battery for starting), use additional current (lights) while engine is running and insulate terminal of battery. If this advice is disregarded, damage to alternator and regulator may result.*

1. Stop the engine.
2. Measure the voltage with a circuit tester between the battery terminals.
3. If the battery voltage is less than the factory specification, check the battery specific gravity and recharge the battery.
   Battery voltage: more than **12 V**

   (1) Positive terminal.

   (2) Negative terminal.



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Every 500 hours

Radiator and coolers

⚠ CAUTION

Flying debris!
Compressed air can propel dirt, rust, etc. into the air. Wear eye and face protection when using compressed air.
Failure to comply could result in minor or moderate injury.

C0049A

Clean the radiator every **500 h**

1. Stop the engine and remove the starter key.
2. Open the engine access door.
3. Visually inspect the radiator for clogged radiator fins.

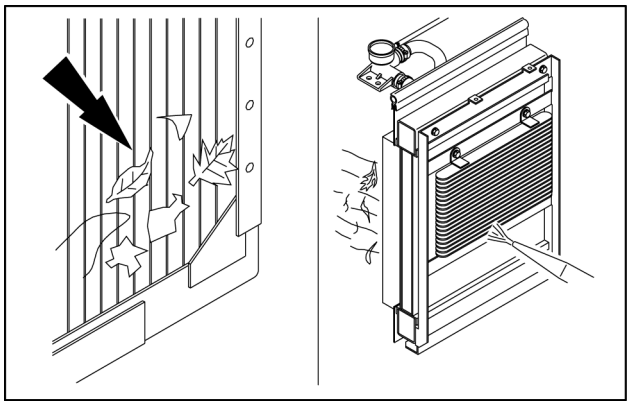
NOTICE: *overheat may occur if the radiator fin, or the oil cooler fin is clogged.*

NOTE: *after working in a dusty place, clean radiator more frequently.*

4. Use compressed air to blow away mud or dirt that have clogged the radiator fin. Blow the air in the opposite direction of the fan air flow.

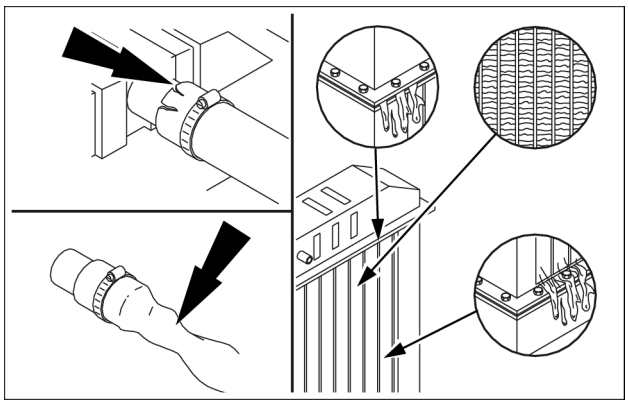
NOTICE: *in presence of greasy or oily dust, consult your CASE CONSTRUCTION dealer in order to carry out a special cleaning operation.*

NOTICE: *use compressed air pressure of maximum* ***550 kPa*** *(****79.8 psi****).*



SMIL16MEX2526AB 1

5. Visually inspect the radiator for bent or broken fins.
6. Visually inspect the radiator for core and gasket leaks.



SMIL16MEX0431AA 2

Hydraulic oil suction filter

⚠ WARNING

Burn hazard!
Before performing any service on the hydraulic system, you must allow it to cool. Hydraulic fluid temperature should not exceed 40 °C (104 °F).
Failure to comply could result in death or serious injury.

W0241A

⚠ WARNING

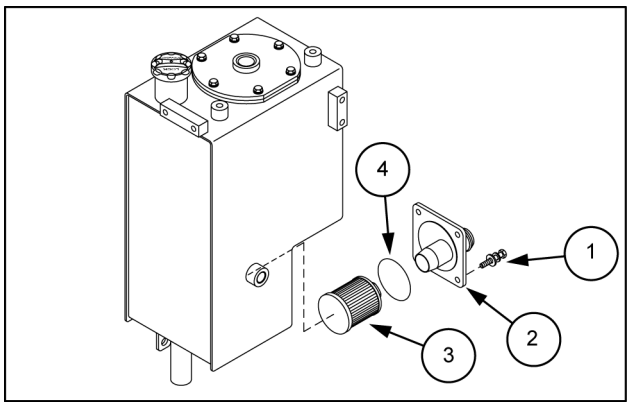
Pressurized system!
Never attempt to drain fluids or remove filters when the engine is running. Turn off the engine and relieve all pressure from pressurized systems before servicing the machine.
Failure to comply could result in death or serious injury.

W0905A

Clean the hydraulic oil suction filter every **2000 h**

NOTICE: *do not remove the hydraulic oil suction filter from the hydraulic tank before the hydraulic tank was empty.*

1. Clean the top of the hydraulic tank, and clean the cover of the inlet filter.
2. Remove the four bolts **(1)**, and the suction cover **(2)** from the hydraulic oil tank.
3. Remove the oil suction filter **(3)**, and clean it with a solvent.
4. Let it dry completely, and check for damage. If any damage is found on its surface, replace it with a new component.
5. Install a new O-ring **(4)**, and install the oil suction filter on the suction cover **(2)**. Lock the suction cover **(2)** with the four bolts **(1)**.
   Tighten the bolts **(1)** to **26.4 – 40.3 N·m** (**19.5 – 29.7 lb ft**).
6. Check the hydraulic fluid level, and add if necessary.



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Fuse and relay locations

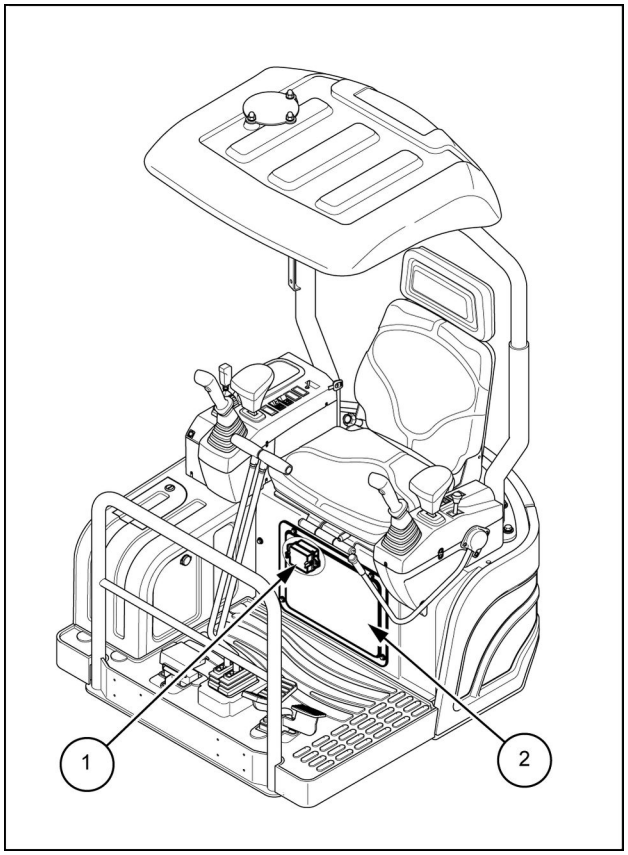
Fuses

To access the fuse box **(1)**, open the door **(2)** located below the operator's seat.
The fuse box cover indicates the function and amperage of each fuse.

NOTICE: *before changing fuses or relays, turn the starter key to the OFF position.*

NOTICE: *never replace a fuse with a fuse of a different amperage.*

NOTE: *use the provided fuse puller to remove and install the fuses.*



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8 - SPECIFICATIONS

Machine specifications

Engine

Model	Kubota D902
Type	4-cycle vertical overhead valve, diesel fuel
Cooling method	Water cooling
Number of cylinders and arrangement	3 cylinders, in-line
Firing order	1 - 2 - 3
Combustion chamber type	Swirl chamber type
Cylinder bore x stroke	**72 mm** (**2.83 in**) x **73.6 mm** (**2.90 in**)
Piston displacement	**898 cm³** (**54.8 in³**)
Compression ratio	24 : 1
Rated gross horse power (SAE J1995)	**12.1 kW** (**16.5 Hp**) at **2400 RPM**
Maximum torque at **1900 RPM**	**53.54 N·m** (**39.49 lb ft**)
Engine oil quantity	**3.7 L** (**1.0 US gal**)
Dry weight	**75 kg** (**165.3 lb**)
High idling speed	**2550 – 2650 RPM**
Low idling speed	**1400 – 1500 RPM**
Rated fuel consumption	208 g/Hp·hr at **2300 RPM** (279 g/kW·hr at **2300 RPM**)
Starting motor	**12 V**, **1.2 kW**
Alternator	**12 V**, **40 A**
Battery	1 x **12 V** x **45 A·h**

Main pump (P1 / P2)

Type	Variable displacement tandem axis piston pumps
Capacity	2 x **7.5 cm³/rev** (**0.5 in³/rev**)
Rated oil flow	2 x **18.8 L/min** (**5.0 US gpm**)
Rated speed	**2500 RPM**

Gear pump / Pilot pump (P3 / P4)

Type	Fixed displacement gear pump single stage
Capacity	**4.5 cm³/rev** (**0.3 in³/rev**) / **2.7 cm³/rev** (**0.2 in³/rev**)
Rated oil flow	**11.3 L/min** (**3.0 US gpm**) / **6.6 L/min** (**1.7 US gpm**)

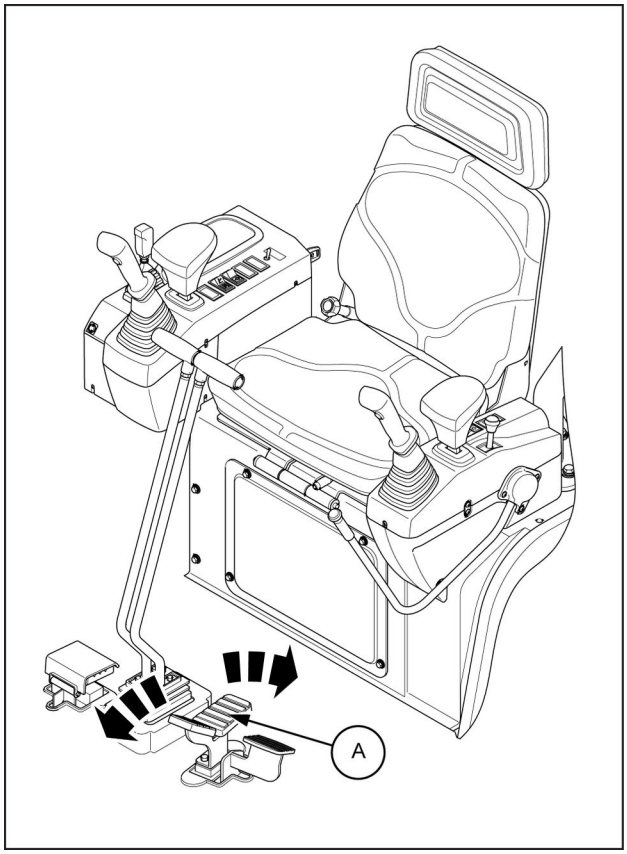
Main control valve

Type	Sectional, 9 spools (12 blocks)
Operating method	Hydraulic pilot system
Main relief valve pressure : P1, P2 / P3	**20595 – 16672 kPa** (**2987 – 2418 psi**)
Overload relief valve pressure	**22553 kPa** (**3271 psi**)

Operating controls

If the machine is equipped with the auxiliary pedal **(A)** proceed as follows:

- 1-way: press the front side of pedal to full stroke to operate a single-acting hydraulic attachment
- 2-way: press the front side and rear side of pedal to full stroke to operate a double-acting hydraulic attachment.



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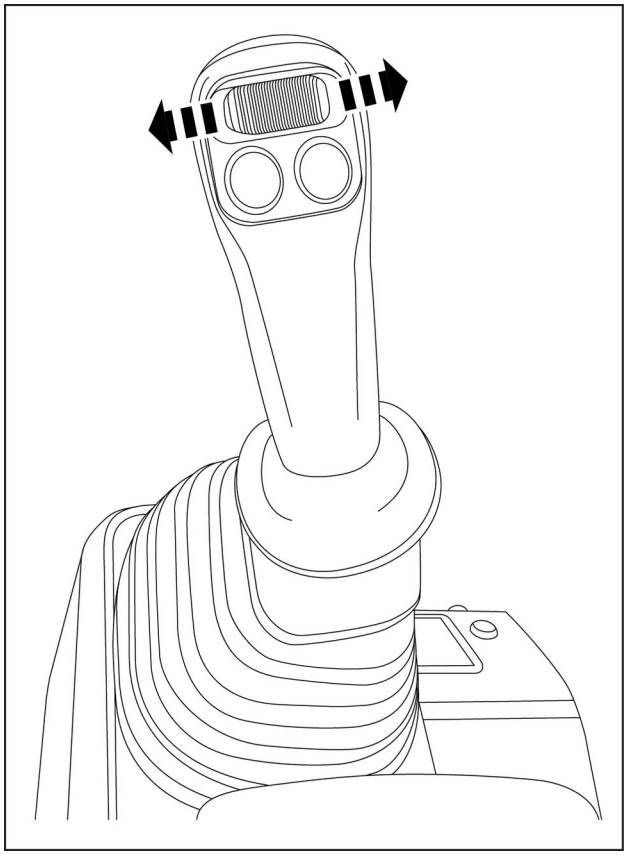
If the right-hand control lever is equipped with a proportional switch, proceed as follows:

- 1-way: slide to the left-hand side the switch to operate the single-acting hydraulic attachment.
- 2-way: slide the switch to the left-hand to “clamp” the double-acting hydraulic attachment; slide the switch to the right-hand to “release” the double-acting hydraulic attachment.



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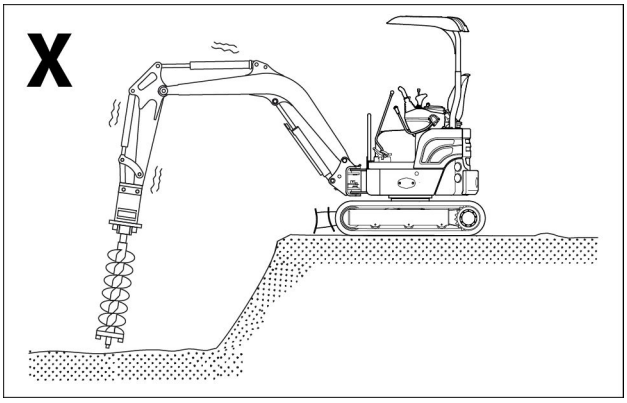
Precautions while operating the hydraulic auger

Avoid hitting objects with auger. The auger is heavier than the bucket and lowers faster. This may cause damages to the auger, attachment, and upper structure. Always lower the auger slowly until the bit point touches the ground to be drilled before starting auger operation.



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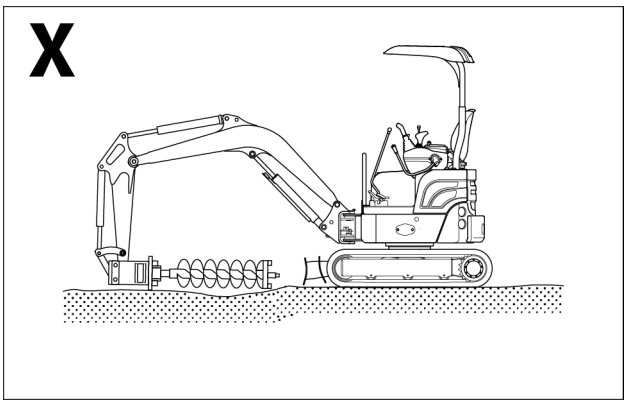
Do not use the hydraulic auger and/or swing function to push objects as damage to the attachment may result.



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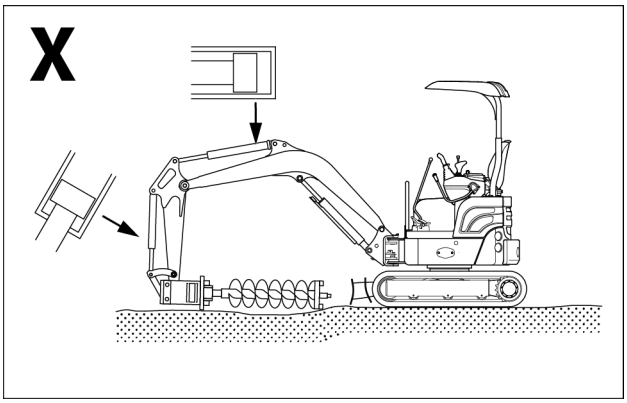
Do not operate the auger with the excavator cylinders fully extended or retracted to avoid attachment and/or cylinder damage.



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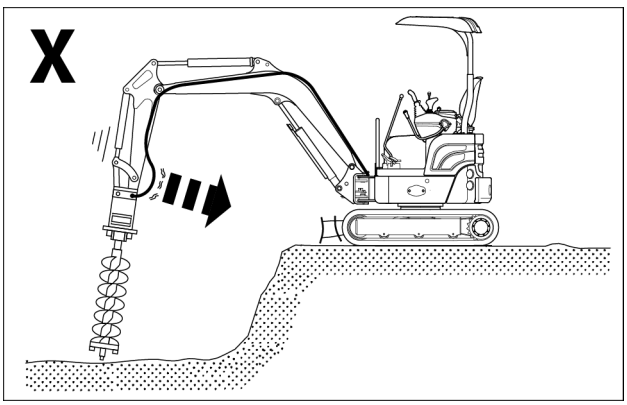
Stop working if hydraulic hoses look abnormally bent. Contact your authorized Dealer.



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Securing the quick coupling system

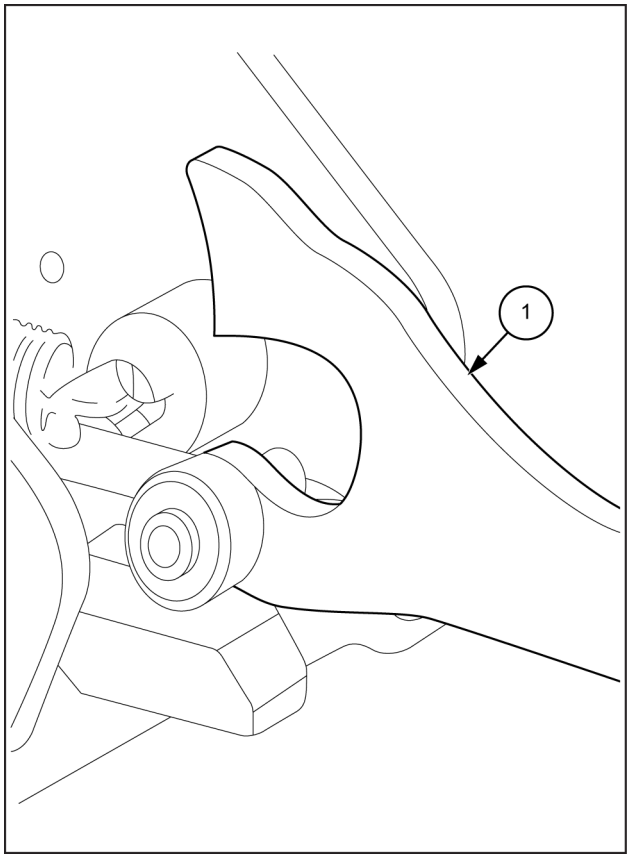
NOTICE: *The quick coupling system must be secured unless using another attachment. Be sure to retract the mobile plate of the quick coupling system.*

⚠ WARNING

Cutting hazard!
This operation could be dangerous.
Do not put your hands near the mobile plate.
If the mobile plate is not properly locked in the engaged position, the mobile plate could suddenly disengage.
Failure to comply could result in death or serious injury.

W1491A

1. Move the boom, arm, and bucket controls in order to position the quick coupling system **1 m** (**3.3 ft**) above the ground.
2. Position the release tool **(1)** on the locking plate as shown in the figure opposite.



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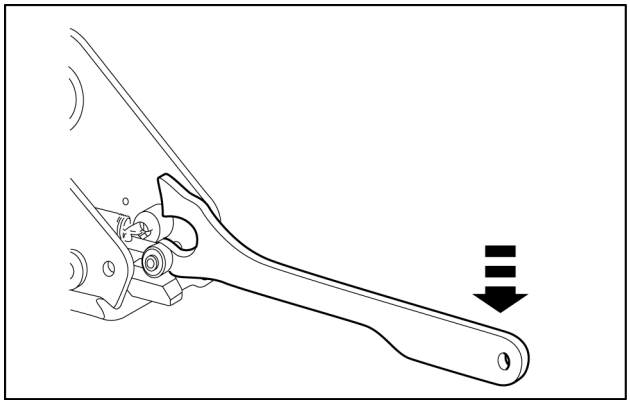
3. Push the release tool down to disengage the locking plate from the stop tab.



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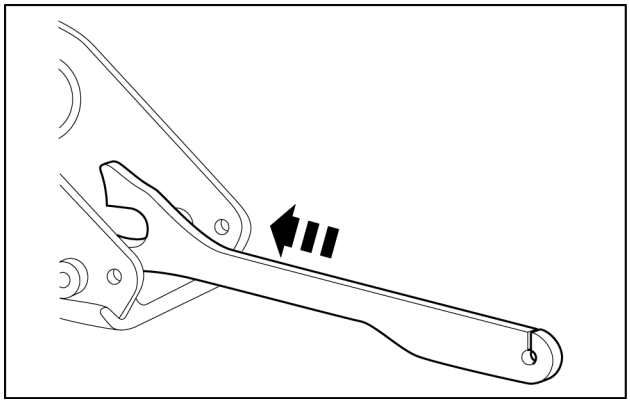
4. Move the locking plate toward the bucket latched position. The locking plate is secured when the springs are at rest.
5. Remove the release tool and put it in the machine compartment.



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