

ORIGINAL INSTRUCTIONS - according to Directive 2006/42/EC, Annex I, 1.7.4.1

CX30C
Mini Excavator

OPERATOR'S MANUAL

Part number 51698712
1st edition English
January 2020



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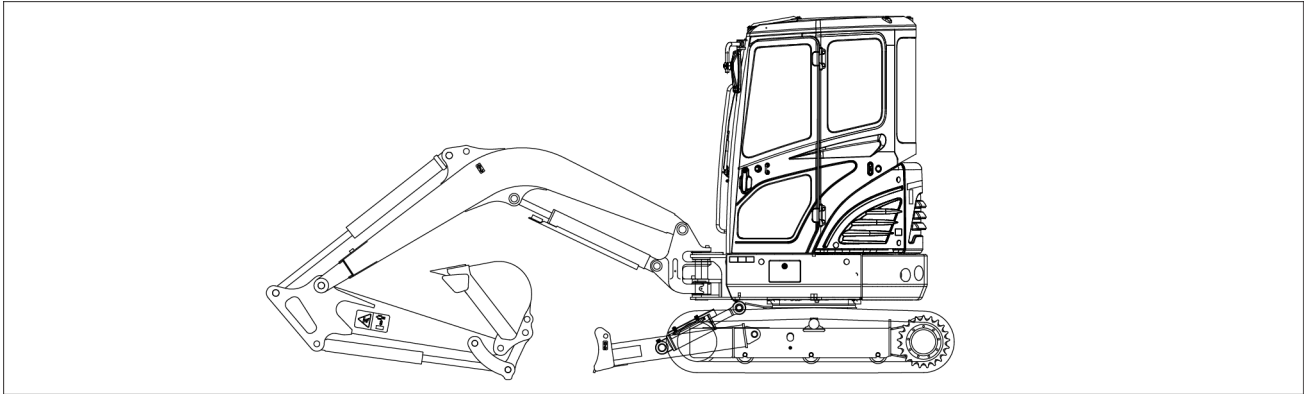


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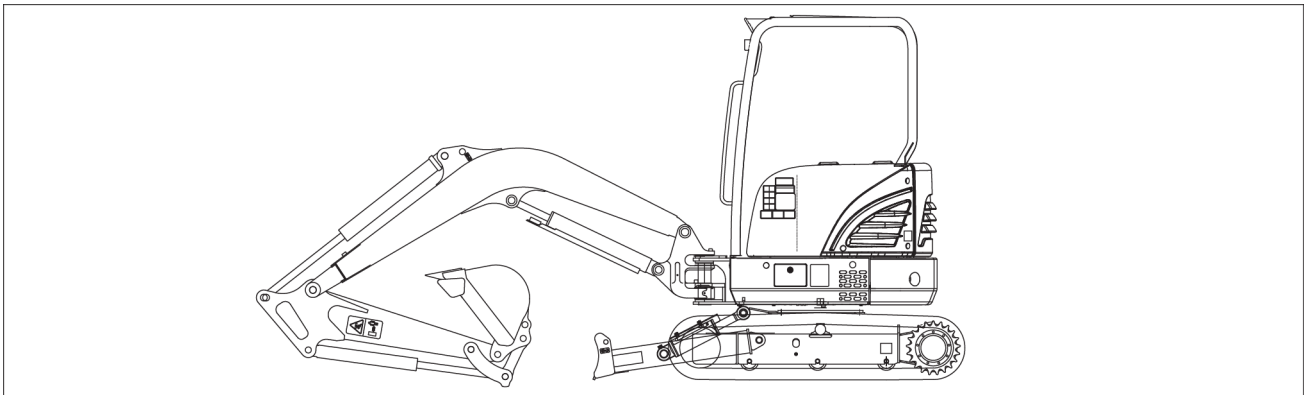
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Product identification

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 cab/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.



SMIL16MEX0363EA 1
Cab version



SMIL16MEX0629EA 2
Canopy version

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

2 - SAFETY INFORMATION

Signal word definitions


Personal safety





This is the safety alert symbol. It is used to alert you to potential personal injury hazards. Obey all safety messages that follow this symbol to avoid possible death or injury.

Throughout this manual you will find the signal words DANGER, WARNING, and CAUTION followed by special instructions. These precautions are intended for the personal safety of you and those working with you.

Read and understand all the safety messages in this manual before you operate or service the machine.

 DANGER indicates a hazardous situation that, if not avoided, will result in death or serious injury.

 WARNING indicates a hazardous situation that, if not avoided, could result in death or serious injury.

 CAUTION indicates a hazardous situation that, if not avoided, could result in minor or moderate injury.

FAILURE TO FOLLOW DANGER, WARNING, AND CAUTION MESSAGES COULD RESULT IN DEATH OR SERIOUS INJURY.

Machine safety

NOTICE: Notice indicates a situation that, if not avoided, could result in machine or property damage.

Throughout this manual you will find the signal word Notice followed by special instructions to prevent machine or property damage. The word Notice is used to address practices not related to personal safety.

Information

NOTE: Note indicates additional information that clarifies steps, procedures, or other information in this manual.

Throughout this manual you will find the word Note followed by additional information about a step, procedure, or other information in the manual. The word Note is not intended to address personal safety or property damage.

Ecology and environment

Soil, air, and water quality is important for all industries and life in general. When legislation does not yet rule the treatment of some of the substances that advanced technology requires, sound judgment should govern the use and disposal of products of a chemical and petrochemical nature.

Familiarize yourself with the relative legislation applicable to your country, and make sure that you understand this legislation. Where no legislation exists, obtain information from suppliers of oils, filters, batteries, fuels, anti-freeze, cleaning agents, etc., with regard to the effect of these substances on man and nature and how to safely store, use, and dispose of these substances. Your CASE CONSTRUCTION dealer can also provide assistance.

Helpful hints

- Avoid the use of cans or other inappropriate pressurized fuel delivery systems to fill tanks. Such delivery systems may cause considerable spillage.
- In general, avoid skin contact with all fuels, oils, acids, solvents, etc. Most of these products contain substances that may be harmful to your health.
- Modern oils contain additives. Do not burn contaminated fuels and or waste oils in ordinary heating systems.
- Avoid spillage when you drain fluids such as used engine coolant mixtures, engine oil, hydraulic fluid, brake fluid, etc. Do not mix drained brake fluids or fuels with lubricants. Store all drained fluids safely until you can dispose of the fluids in a proper way that complies with all local legislation and available resources.
- Do not allow coolant mixtures to get into the soil. Collect and dispose of coolant mixtures properly.
- Do not open the air-conditioning system yourself. It contains gases that should not be released into the atmosphere. Your CASE CONSTRUCTION dealer or air-conditioning specialist has a special extractor for this purpose and can recharge the system properly.
- Repair any leaks or defects in the engine cooling system or hydraulic system immediately.
- Do not increase the pressure in a pressurized circuit as this may lead to a component failure.

Battery recycling

Batteries and electric accumulators contain several substances that can have a harmful effect on the environment if the batteries are not properly recycled after use. Improper disposal of batteries can contaminate the soil, groundwater, and waterways. CASE CONSTRUCTION strongly recommends that you return all used batteries to a CASE CONSTRUCTION dealer, who will dispose of the used batteries or recycle the used batteries properly. In some countries, this is a legal requirement.



NHIL14GEN0038AA 1

Mandatory battery recycling

NOTE: The following requirements are mandatory in Brazil.

Batteries are made of lead plates and a sulfuric acid solution. Because batteries contain heavy metals such as lead, CONAMA Resolution 401/2008 requires you to return all used batteries to the battery dealer when you replace any batteries. Do not dispose of batteries in your household garbage.

Points of sale are obliged to:

- Accept the return of your used batteries
- Store the returned batteries in a suitable location
- Send the returned batteries to the battery manufacturer for recycling

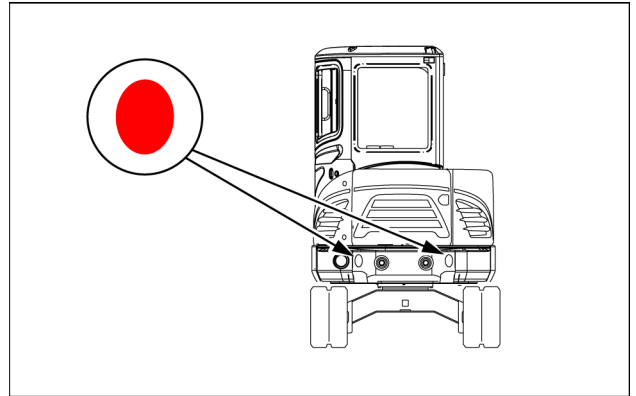
(1) Reflecting sign

Location: the two reflecting signs are located in the rear side of the machine, on the counterweight.

Quantity: 2

Part number: 97MJ-04021

The reflecting sign increases the night-time visibility.



SMIL19MEX0709AA 3

(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.

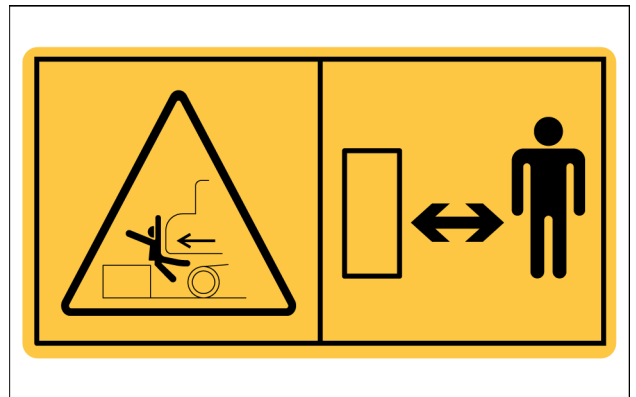
D0123A

Location: this sign is located on the counterweight.

Quantity: 2

Part number: 91Q6-07011

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



SMIL19MEX0710AA 4

(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.

W0097A

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

Quantity: 1

Part number: 91MJ-07111

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



SMIL19MEX0748AA 5

(19) Service instructions

Cab location: this sign is located on the left-hand side in the cab.

Canopy location: this sign is located near the operator's seat.

Quantity: 1

Part number: 97MK-10731

This sign describes the service locations and the service intervals.

SERVICE INSTRUCTION

NO.	DESCRIPTION	SERVICE INTERVALS (HOURS)											UNIT		
		10	50	100	200	400	600	750	1000	1500	2000	3000		4000	
1	HYDRAULIC OIL	▲													1
2	RADIATOR COOLANT	▲													1
3	WATER SEPARATOR	▲													1
4	FAN BELT TIGHTEN/DAMAGE	▲													1
5	ATTACHMENT PINS	▲													1
6	FLUKEET TIRAGE BRIDGE PINS	▲													1
7	BOOM SWING CYLINDER	▲													2
8	SWING BEARING	▲													1
9	SWING GEAR SPRING	▲													2
10	TRACK TENSION	▲													2
11	FUEL TANK WATER SEDIMENT	▲													1
12	FUEL FILTER WATER SEPARATOR	▲													1
13	BATTERY (VOLTAGEL)	▲													1
14	ENGINE OIL	▲													1
15	ENGINE OIL FILTER	▲													1
16	FUEL FILTER ELEMENT	▲													1
17	RADIATOR OIL COOLER (EFU)	▲													2
18	AIR CLEANER ELEMENT	▲													1
19	PILOT LINE FILTER	▲													2
20	HYDRAULIC OIL RETURN FILTER	▲													2
21	TRAVEL RESTRICTION LEAD ROPE	▲													2
22	HYDRAULIC OIL SUCTION STRAINER	▲													2
23	VALVE CLEARANCE	▲													6
24	FUEL INJECTION NOZZLE PRESSURE	▲													3
25	FUEL INJECTION TIMING	▲													1
26	FUEL INJECTION PUMP	▲													1

1. SERVICE INTERVALS ARE BASED ON THE HOURMETER READING.
 2. THE SERVICE INTERVAL ON THIS SIGN CANNOT BE FIT FOR YOUR WORK CONDITION.
 3. BE SURE OF ENGINE STOP WHEN REPAIRING.
 4. ALWAYS OPEN THE CAP OR BURN FLUIDS WHILE HOT TEMPERATURE OF FLUID TO PREVENT BURNING TO YOUR SKIN.
 5. OPEN THE CAP SLOWLY TO RELIEVE PRESSURE.
 6. ALWAYS USE THE PROPERLY COVERED RETURN PANEL TO CLEAN.
 IN CASE OF DAMAGE OR MALFUNCTION DETECTED IN PANEL, REPLACE IT BY A NEW ONE.
 7. READ MAINTENANCE CHAPTER IN OPERATOR'S MANUAL FOR DETAILS.
 8. FOR FLUIDS (ENGINE OIL, GEAR OIL, HYDRAULIC OIL, COOLANT) PRECIPITATIONS AND QUANTITY REFER TO MAINTENANCE CHAPTER IN OPERATOR'S MANUAL FOR DETAILS.

SERVICE SYMBOLS:
 ▲ INITIALLY
 ● OIL LUBRICATE
 □ CHANGE/REPLACE
 ○ OILY
 ○ CHECK
 ● CLEAN
 ★ OILY
 ○ OIL LUBRICATE
 □ CHANGE/REPLACE

SMIL19MEX0835AA 26

(20) Noise level

Location: this sign is located on the cab/canopy.

Quantity: 1

Part number: 91N6-22040

The sign shows the value of the noise level in decibels outside the machine guaranteed by the manufacturer in accordance with the European directive **2000/14/EC**.

LWA
94 dB

SMIL16MEX0358AA 27

(21) Load handling (optional)

Cab location: this sign is located on the left-hand side of the cab.

Canopy location: this sign is located on the right-hand side of operator's compartment.

Quantity: 1

The load handling indicates the rated lift capacities that shall be considered at different distances from the swing axis.

30C

2.0m(6.6 ft) 2.5m(8.2 ft) 3.0m(9.8 ft) 3.5m(11.5 ft) 4.0m(13.1 ft)

250mm(10")

81 kg

30kg

SAE J11097, ISO 10567

48102605

SMIL19MEX0666AA 28

Seat belt

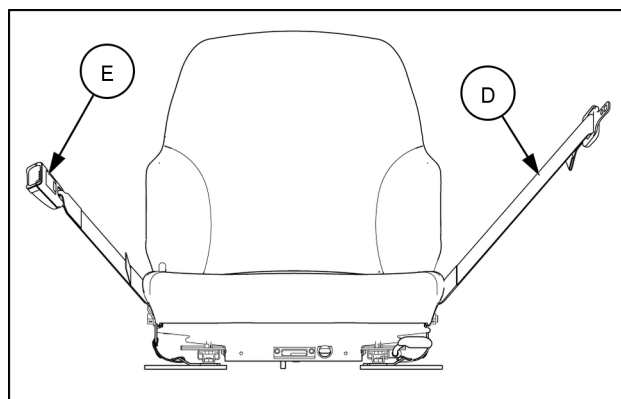
⚠ WARNING

Equipment failure could cause accident or injury!

Always fasten the seat belt securely before you operate the machine. Inspect seat belt parts for wear and damage. Replace any and all worn or damaged parts of the seat belt prior to operation.

Failure to comply could result in death or serious injury.

W0046C



SMIL18MEX0121AA 4

- Sit comfortably on the operator's seat.
- Pull out a long section of belt (**D**).
- Engage the belt in the fastening system (**E**).

NOTE: if the section of belt pulled out is not long enough, release it, so it rolls up and then pull it out again.

To release the seat belt press down the releasing lever of the fastening system (**E**).

NOTICE: the seat belt must be kept clean. Use only soap and water to clean the belt, do not use bleach or dyes.

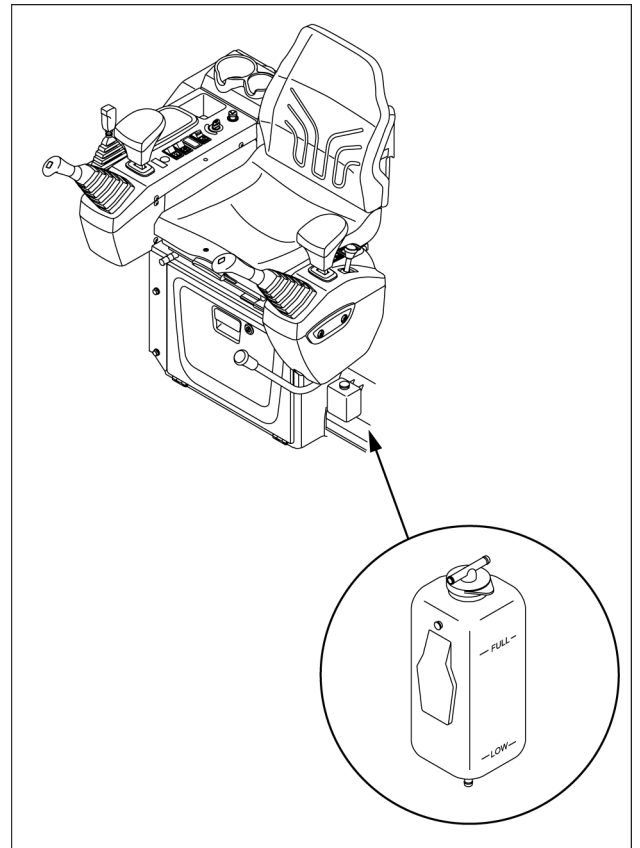
Windshield washer reservoir

This reservoir, located in the left-hand side of the cab, is equipped with an electric pump which is operated from the wiper and washer switch.

NOTICE: never operate the windshield washer control when the reservoir is empty. This could cause damage to the electric pump.

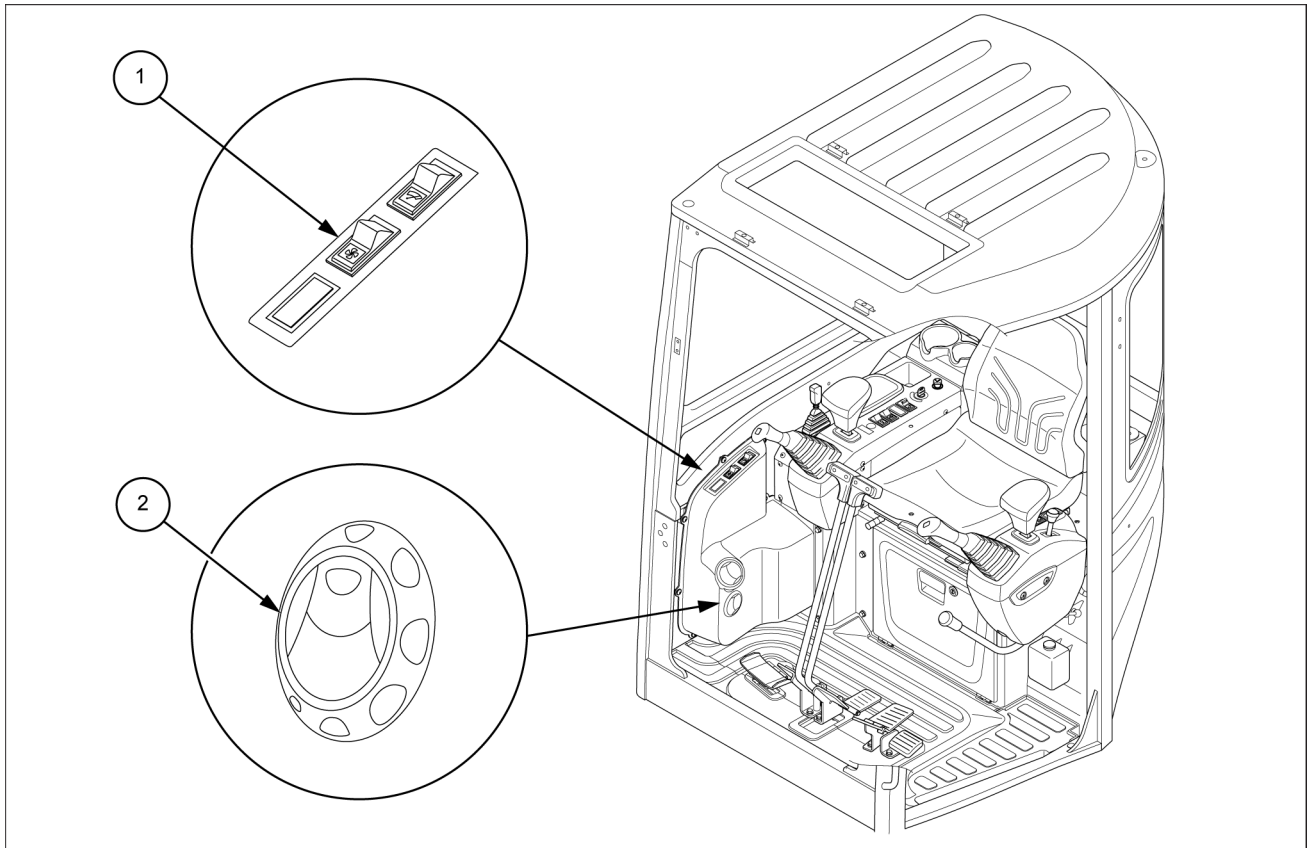
Remove the cap to add windshield washing fluid.

NOTICE: in cold weather, add anti-freeze to the windshield washer water.



SMIL19MEX0779BA 1

Ventilation and heating



SMIL19MEX0793FB 1

The switch **(1)** activates two different speeds of ventilation.
The first step activates the low fan speed of ventilation.
The second step activates the high fan speed of ventilation.

The outlet control louvers **(2)** allows the operator to control the direction of air.
The outlet control louvers can be closed or open.

(6) Pre-set scan (SCAN) / Best Station Memory (BSM) button

Pre-set scan (SCAN).

Press the SCAN button **(A)** momentarily to scan the 6 pre-set station stored the memories on each band (AM/FM).

The unit will stop at each pre-set station (the pre-set number on the LCD screen will flash during pre-set scan operation) and remain on the selected frequency.

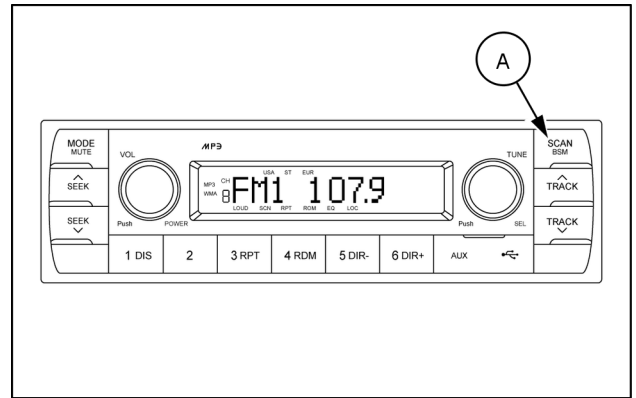
Press the SCAN button **(A)** momentarily again to remain on the station currently being heard.

Best station memory (BSM)

Press the BSM button **(A)** for longer than **2 s** to activate the BSM tuning feature which will automatically scan and enter each station into memory.

If you have already set the pre-set memories to your favorite stations, activating the BSM tuning feature will erase those stations and enter the new ones.

This BSM feature is most useful when traveling in a new area where you are not familiar with the local stations.



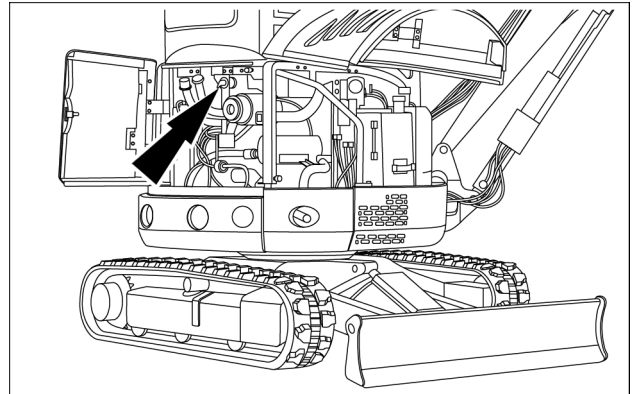
SMIL17MEX2806AA 8

Battery disconnect switch

The battery disconnect switch is located in the engine compartment. Open the engine access door to access to the battery disconnect switch.

The battery disconnect switch allows to cut off any power supply in the electrical system of the machine.

NOTE: when the switch is turned to OFF position, all electrical circuits are cut off and the stations stored on the radio presets and the time set for the clock will be cleared.



SMIL16MEX0435AA 1

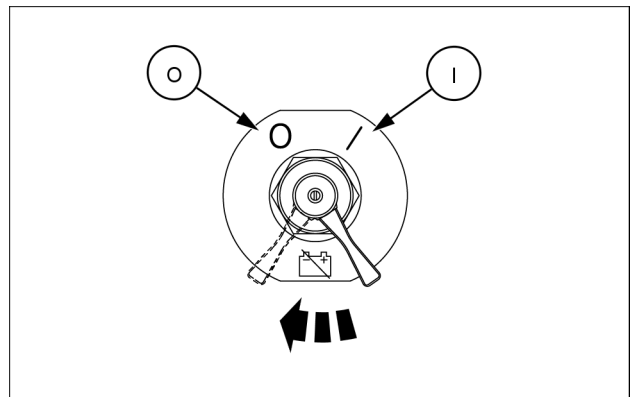
Place the battery disconnect switch in the **(I)** position during normal operation.

Place the battery disconnect switch in the **(O)** position only during the following operations:

- Battery removal
- Electrical system connector removal
- Electrical system service
- Long-term storage
- As required for inspections and repairs
- Welding

NOTICE: never turn the battery disconnect switch to **(O)** position with the engine running. This could damage the electrical system.

NOTICE: never turn the battery disconnect switch to **(O)** position within **3 min** after the starter key is turned off. The machine control system and the engine control system will be damaged.



SMIL16MEX0410AA 2

Operating the machine

▲ WARNING

Misuse hazard!

Follow the operating instructions in this chapter. Any other practice that has not received the prior approval of the manufacturer is considered to be strictly forbidden.

Failure to comply could result in death or serious injury.

W0281A

▲ WARNING

Hazard to bystanders!

Always know the location of all workers in your area. Warn them before you start working on the machine. Always keep all unauthorized bystanders clear of the area.

Failure to comply could result in death or serious injury.

W0176A

- Before you operate the machine, take notice of the job site ground conditions and characteristics. Take notice of the local climate.
- Inspect the job site for potential risks before operating the machine. Holes on working site, obstructions and hazardous materials such as debris are subject to cause serious accident.
- Pay attention to location of pipes and cables before commencing work. Electric cables, gas pipes, water pipes and underground installations may cause serious injury. If the work takes place adjacent to high voltage power lines make sure to check the following work range:
Less than **57000 V**: **4 m (13.1 ft)**
57000 V or more: **5 m (16.4 ft)**
- Sit on the operator's seat, adjust it so as to be able to easily reach the console, and then fasten the seat belt.
- Check that the cab door is tightly secured at position of open or close.
- Sound the horn to warn other workers in the proximity of the machine.
- Start up the engine.
- Check all the indicator lights and gauges are operating properly.
- Push the safety lock lever forward.

NOTICE: *perform the following operations to avoid damage to the machine.*

- Do not use weight of the machine as an impact force for excavation.
- Do not use traveling force of the machine for excavation.
- Avoid abrupt change of swing direction when swinging the upper structure.
- Never hit or push objects with side of the bucket. Do not sweep ground with the bucket to level rubbles.
- Open and close the bucket for several times to loosen soil and mud when soil and mud are tightly packed in the bucket.
- After work, remove mud from the machine and clean it.

Stopping the unit

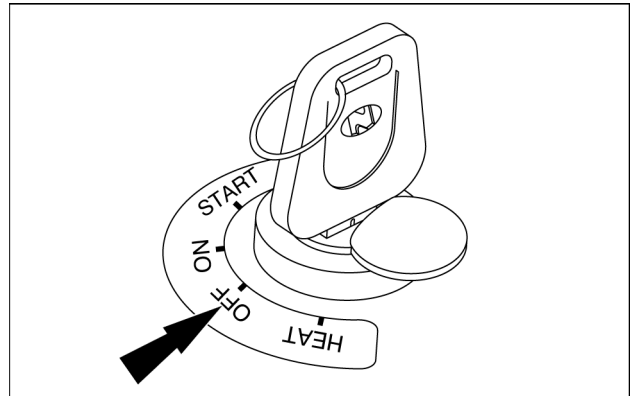
Stopping the engine

1. Lower the attachment until it is resting on the ground.
2. Set the safety lever backward (LOCK position).
3. Set the engine speed lever to low idle position and let the engine run for about **5 min.**

NOTICE: run the engine in idling for about **5 min.** Stopping the engine immediately after operating may cause a failure such as the engine seizing. Stop the engine after the engine temperature has dropped.

NOTICE: make sure to run the engine in idling status before completely stopping it except for emergency.

4. Turn the starter key to the OFF position.
5. Remove the starter key to prevent other people using the machine.

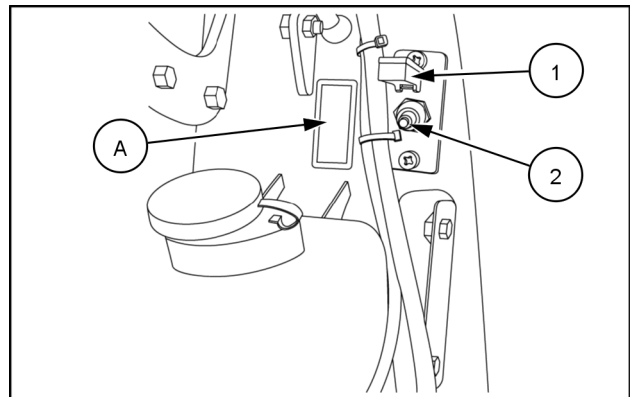


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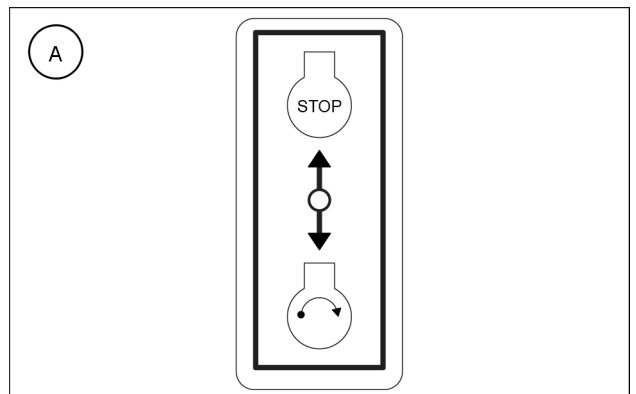
Emergency stop of the engine

Only in case of emergency the engine can be stopped by operating the switch (1) located on the left-hand side of the cab, next to the windshield washer reservoir.

1. Lift up the red toggle (1).
2. Operate the switch (2) upwards.



SMIL16MEX0912AA 2



SMIL16MEX0644AA 3

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5 - TRANSPORT OPERATIONS

Road transport

Loading the machine onto a transport trailer

⚠ WARNING

Improper operation or service of this machine can result in an accident.
Assign a supervisor to direct worksite operations. Agree on all safety measures, procedures, and suitable hand signals.
Failure to comply could result in death or serious injury.

W0287A

⚠ WARNING

Transport hazard!
The machine can slip or fall from a ramp or trailer. Make sure the ramp and trailer are not slippery. Remove all oil, grease, ice, etc. Move the machine on or off the trailer with machine centered on the trailer or ramp.
Failure to comply could result in death or serious injury.

W0152A

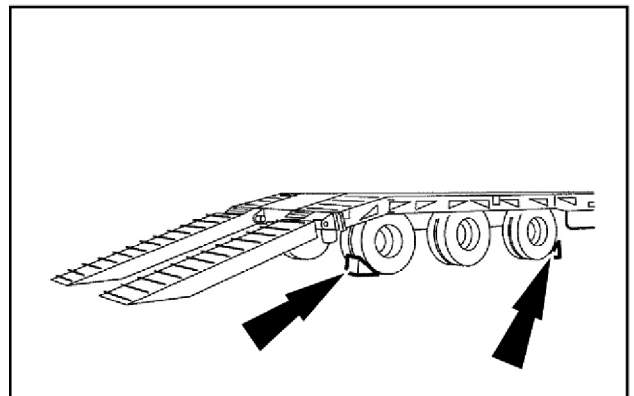
Make sure to check the total weight, length, width and height of the machine to be transported. Refer to Chapter 8.

Make sure to use a trailer with a rated capacity and dimensions sufficient to transport the machine. If a rear loading type trailer is used for road transport, make sure that ramps are available to climb onto the trailer bed. Use ramps which have sufficient width, length, thickness and strength. The ramp slope should be **15°** or less.

Investigate beforehand the conditions of the road to be traveled, weight and size limits, and special local traffic regulations. Obtain any permits required from proper government agencies for machine transportation.

Trailer setup

1. Position the trailer on firm and level ground.
2. Put blocks to the tires of the trailer to prevent trailer from moving.
3. If a rear loading type trailer is used for road transport, prepare the loading ramps. If the ramps are included in the trailer frame, lower them to the ground. If the ramps are external to the trailer, match them to the rear edge of the trailer avoiding any bump between trailer bed and external ramps.



SMIL13CEX2717AB 1

Machine setup

1. Clean the machine undercarriage and tracks to prevent mud or debris from skidding during transport.
2. Select the low travel speed.
3. Lock the boom swing pedal.
4. Fully raise the dozer blade.

Attachment

- Check that the cylinders are not leaking oil.
- Check the condition of all lines.
- Check the condition of the bucket teeth.

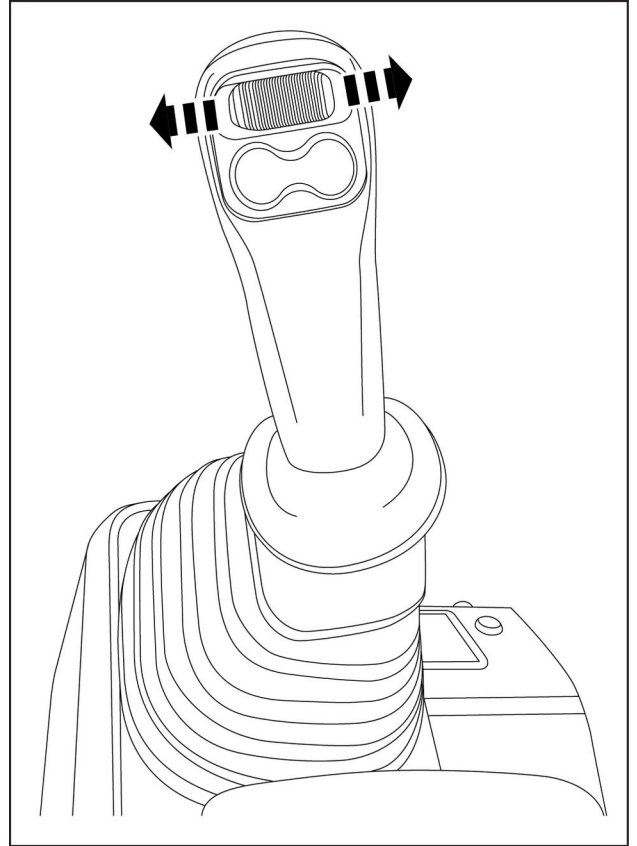
After starting the engine

- Did the engine start correctly? Are the exhaust fumes normal? Any strange noises?
- Check for abnormal noise on the hydraulic components.
- Check the components for signs of leaking oil or water.
- Check the audible alarm devices, working lights and windshield wipers.
- Check that all circuits (travel, swing and tool) are functioning correctly.

NOTICE: *if the slightest defect is found, repair it immediately before using the machine or consult your CASE CONSTRUCTION Dealer.*

5. If the machine is equipped with the proportional switch on the right-hand control lever, slide it to left-hand and right-hand three times approximately to release the pressure.

NOTE: *this procedure does not completely release the pressure, so when operate on the hydraulic system, loosen the connections slowly and do not stand in the direction where the oil drains out.*

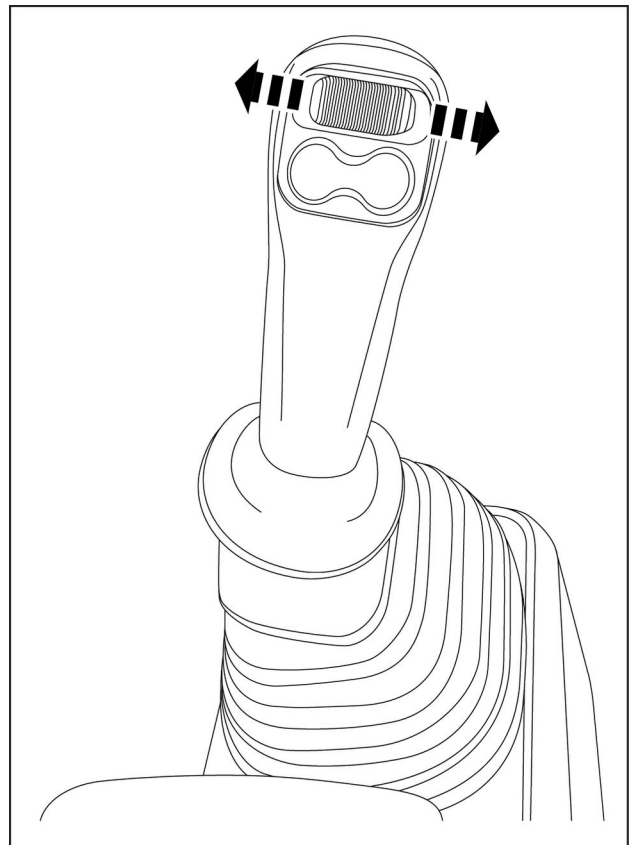


SMIL19MEX0128BA 7

For the second auxiliary circuit proceed as follows:

6. If the machine is equipped with the proportional switch on the left-hand control lever, slide it to left-hand and right-hand three times approximately to release the pressure.

NOTE: *this procedure does not completely release the pressure, so when operate on the hydraulic system, loosen the connections slowly and do not stand in the direction where the oil drains out.*



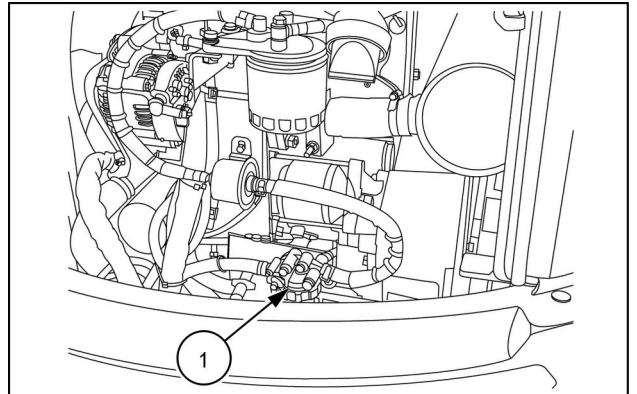
SMIL19MEX0129BA 8

Fuel filter water separator

Drain water and sediment from the fuel filter water separator every **10 h** or every day.

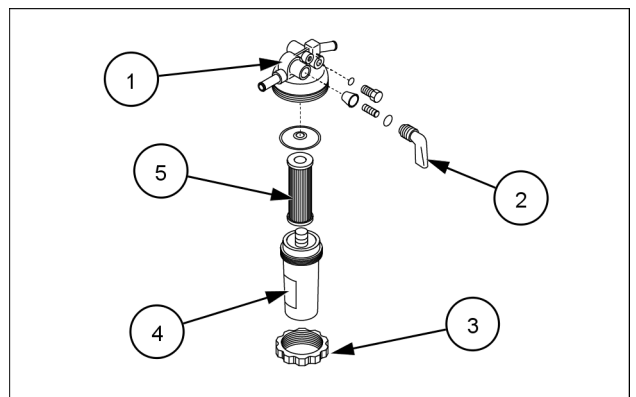
Clean the filter element of the fuel filter water separator every **100 h**.

1. Open the engine door and place a container with a capacity of **2 L (0.5 US gal)** under the fuel filter water separator **(1)**.



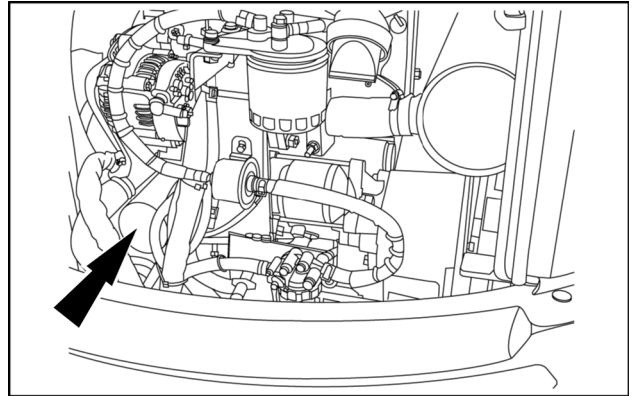
SMIL16MEX0925AA 1

2. Close the fuel cock **(2)** of the fuel filter water separator **(1)**.
3. Loosen the retaining ring **(3)** and remove the cup **(4)** from the fuel filter water separator **(1)**.
4. Remove the filter element **(5)**, clean and replace if necessary.
5. Empty the cup **(4)** and rinse the inside with kerosene.
6. Reassemble the fuel filter water separator **(1)** and tighten the retaining ring **(3)**.

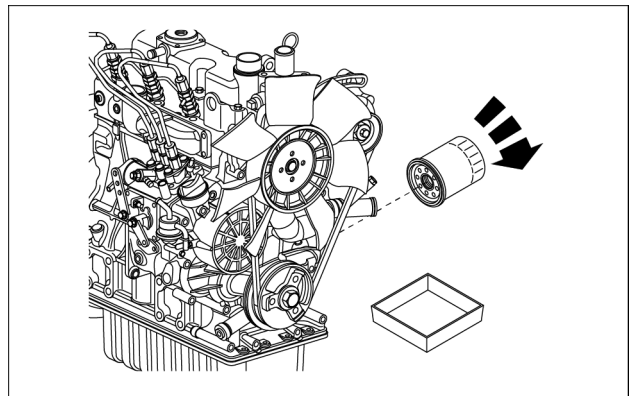


SMIL16MEX0039AA 2

7. Clean the area around the engine oil filter and remove it with the specific tool provided with the machine.

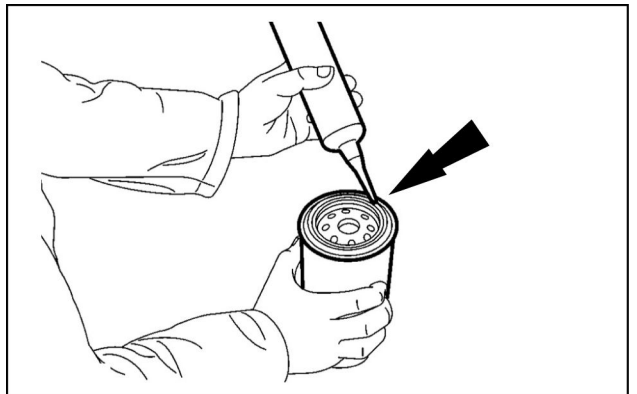


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SMIL16MEX0426AA 4

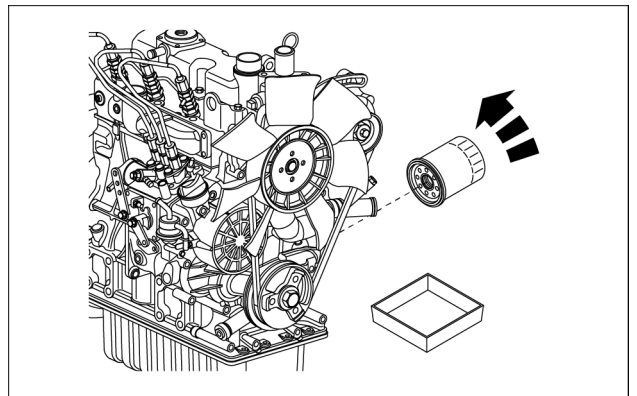
8. Apply an oil film finely to the seal of a new filter.



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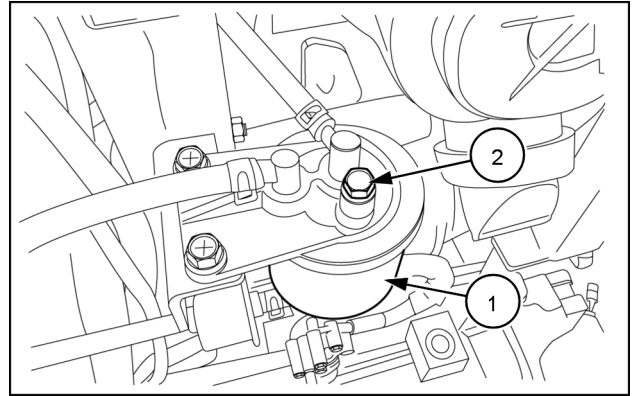
9. Attach a new filter. Turn the filter until the seal touches the filter head, and then tighten it further a half turn by hand.

NOTE: do not use a filter wrench for tightening the filter. Overtightening can damage the filter and its seal.



SMIL16MEX0426AA 6

4. Remove the fuel filter **(1)** with the specific wrench.
5. Apply a thin film of fuel to the surface of the new fuel filter gasket before tighten it.
6. Install a new filter element.
7. Loosen the air vent plug **(2)** to let the air out. Start engine and check for fuel leakage.
8. Bleed the fuel system. Refer to page **6-14**.



SMIL19MEX0669AA 2

Every 1500 hours

Injection nozzle

Check the injection nozzle pressure every **1500 h**.

NOTICE: to check the injection nozzle pressure refer to your **CASE CONSTRUCTION** dealer.

Every 2000 hours

Air cleaner

CAUTION

Flying debris!

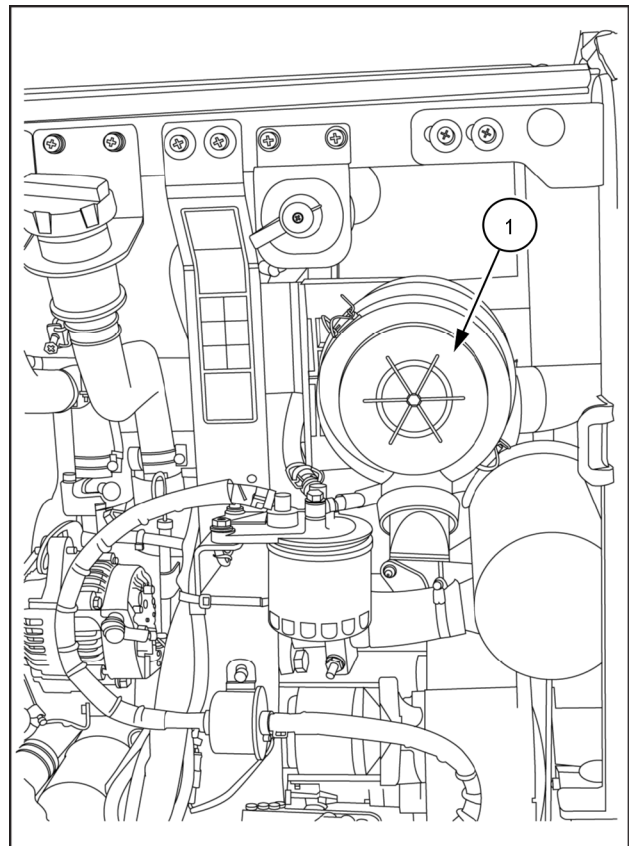
Compressed air can propel dirt, rust, etc. into the air. Wear eye and face protection when using compressed air.

Failure to comply could result in minor or moderate injury.

C0049A

Replace the air cleaner every **2000 h**.

1. Open the engine access door to access to the air cleaner (1).



SMIL16MEX0926BA 1

Every 5000 hours

Hydraulic oil

⚠ 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

⚠ WARNING

Escaping fluid!

Hydraulic fluid or diesel fuel leaking under pressure can penetrate the skin and cause infection or other injury. To prevent personal injury: Relieve all pressure before disconnecting fluid lines or performing work on the hydraulic system. Before applying pressure, make sure all connections are tight and all components are in good condition. Never use your hand to check for suspected leaks under pressure. Use a piece of cardboard or wood for this purpose. If injured by leaking fluid, see your doctor immediately.

Failure to comply could result in death or serious injury.

W0178A

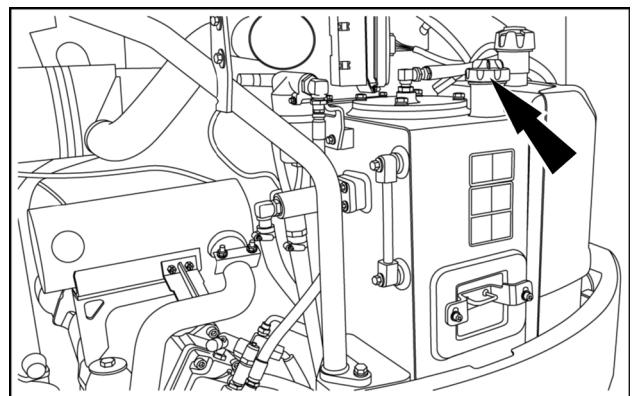
Replace the hydraulic oil every **5000 h**

Fluid: **CASE AKCELA HYDRAULIC LL 46**

Quantity: **27 L (7.1 US gal)**

NOTICE: when using the hydraulic breaker, reduce the interval of the hydraulic oil replacement to **1000 h**.

1. Release all the pressure in the hydraulic tank. Refer to page **6-10**.
2. Lower the bucket on the ground pulling the arm and bucket cylinder to the maximum cylinder extension.
3. Open the side hood and loosen the filling cap.

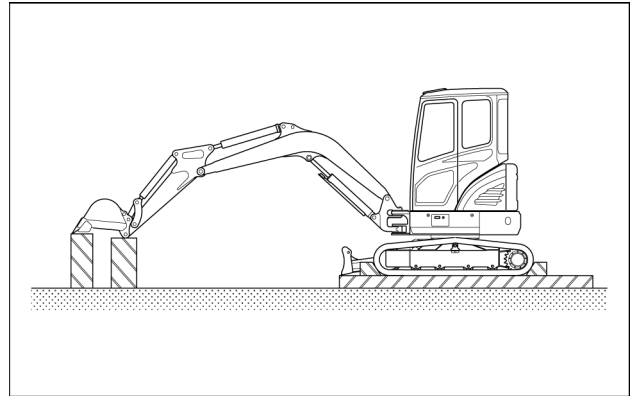


SMIL16MEX0928AA 1

Storage

Preparing for storage

- The following procedure applies when the machine is to be stored for a month or more. Store the machine on flat, level ground, inside a building or, if not possible, outside and covered with a tarpaulin. Before storing the machine, carry out the following operations:



SMIL19MEX0727AA 1

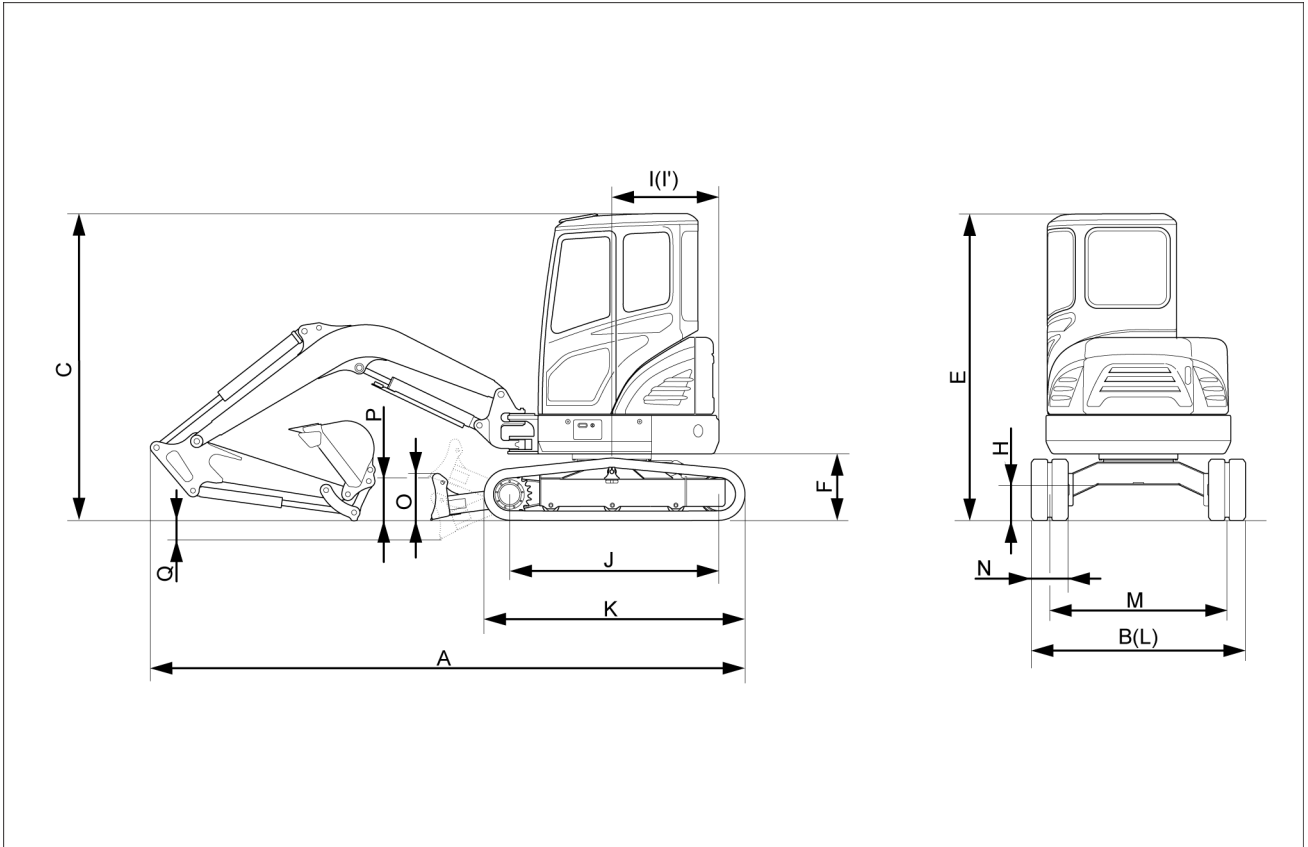
1. Clean the machine.
2. Make sure that the machine has no damaged or missing parts. Replace them if necessary.
3. Retract the cylinder rods as far as possible and lower the boom until the attachment is resting on the ground. Lower the dozer blade to the ground.
4. Grease the machine thoroughly. The exposed surfaces of the cylinder rods should be greased or covered with a protective film. Consult your CASE CONSTRUCTION Dealer.

NOTE: when the machine resumes service, the film will disappear automatically.

5. While the engine is still warm, drain the oil sump, replace the oil filter and fill with specified oil. Check the oil level and add more if necessary.
6. Clean or replace the air filter element.
7. Check the level of coolant solution. If the machine is within **100 h** of the next scheduled coolant change, change the coolant now.
8. Remove the battery, clean the battery housing, and check that there is no adhesion of battery fluid. Store the battery safely in a cool and dry place where temperature is **0 °C (32 °F)** or more. Alternatively, cut-off the cable from the negative (-) terminal of the battery, or turn the battery disconnect switch to the OFF position.
9. Plug the air cleaner inlet and the exhaust pipe.
10. Remove the starter key, put the decal "NO OPERATION" on the console, and set the safety lock lever to rearward position (LOCK position).
11. Lock the engine door, and the cab door.
12. Prevent dust and moisture by keeping the machine dry. Store the machine setting wood on the ground.

Dimensions

Cab version



SMIL16MEX0048FA 1

(A) Overall length	4180 mm (164.6 in)
(B) Overall width, with 300.0 mm (11.8 in) shoe	1550 mm (61.0 in)
(C) Overall height	2500 mm (98.4 in)
(E) Overall height of cab	2500 mm (98.4 in)
(F) Ground clearance of counterweight	540 mm (21.3 in)
(H) Minimum ground clearance	290 mm (11.4 in)
(I) Rear-end distance	775 mm (30.5 in)
(I') Rear-end swing radius	775 mm (30.5 in)
(J) Distance between tumblers	1550 mm (61.0 in)
(K) Undercarriage length	1970 mm (77.6 in)
(L) Undercarriage width	1500 mm (59.1 in)
(M) Track gauge	1250 mm (49.2 in)
(N) Track shoe width, standard	300 mm (11.8 in)
(O) Height of blade	300 mm (11.8 in)
(P) Ground clearance of blade up	350 mm (13.8 in)
(Q) Depth of blade down	370 mm (14.6 in)

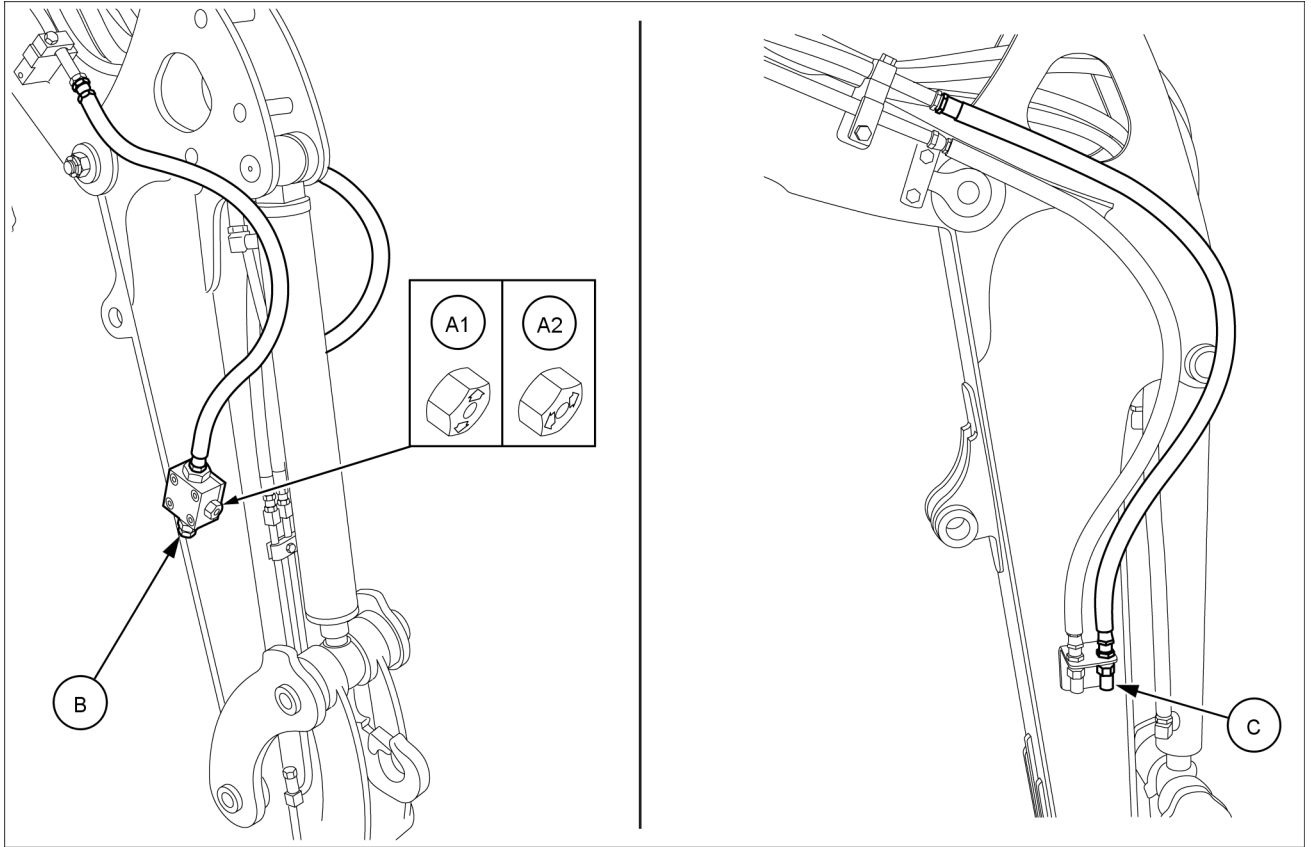
Boom length: **2.030 m (79.921 in)**

Arm length: **1.120 m (44.094 in)**

With boom swing post

Hydraulic connections

The two stop valves are located on each side of the arm to allow proper and safe connection of the attachment hydraulic lines to the first auxiliary hydraulic circuit.



SMIL17MEX2841FA 3

Open (A1) / Close (A2) tool of the stop valve	19 mm wrench
Hydraulic connection (B)	G 3/8" male port with cap
Hydraulic connection (C)	Quick coupling fitting
Delivery pressure	Left-hand hose
Discharge pressure	Right-hand hose

NOTICE: Always keep each connecting hose on the same side of the arm. Never cross-over the connecting hoses between the two sides of the arm.

Operational settings

The flow rate/pressure characteristic of the first auxiliary hydraulic circuit is set by means the engine power applied.

The first auxiliary specifications for breaker are set from factory:

maximum flow rate (P2+P3)	46 L/min (12.2 US gpm)
maximum operating pressure (P3)	175 bar (2537.5 psi)

Quick coupling system - Klac type

⚠ WARNING

Crushing hazard!

Never put your hands inside the quick coupler mechanism. Turn off the engine and wait for all movement to stop.

Failure to comply could result in death or serious injury.

W1542A

⚠ 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

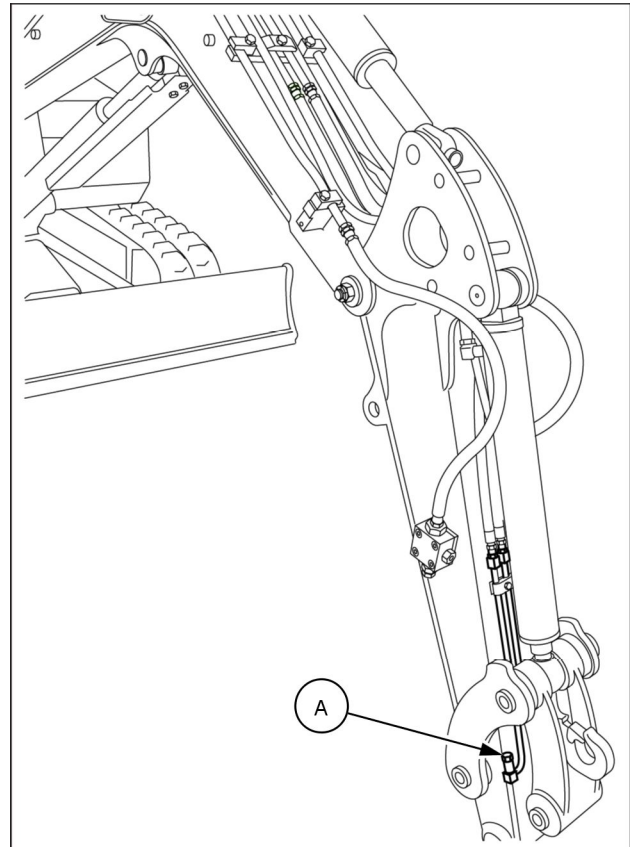
NOTICE: the quick coupler extends the length of the arm. Make sure to check the operating range of the coupled attachment in order to avoid risk of striking the cab or the machine frame.

NOTICE: never operate with a quick coupled hydraulic breaker for an extended period of time, in order to reduce the risk of premature wear, failures or breakage of the quick coupler. Never use the breaker as a lever, as this subjects the quick coupler cylinder to stress.

NOTICE: be sure to read and understand the Operator's Manual of the quick coupler to proper installation, usage and maintenance.

Quick coupling hydraulic circuit and connections

The machine can provide a quick coupling hydraulic circuit. The two rigid pipes located both on the top of the arm allow to install properly and safely the hoses to connect the hydraulic attachment to the quick coupling hydraulic circuit.



SML17MEX2804BA 1

Hydraulic connections (A)	ORFS ISO 843406-9/16-18UNF 2A
Delivery and discharge pressure	Left-hand hose

Load handling

⚠ WARNING

Crushing hazard!

During load handling operations, it is very important to adhere strictly to the instructions given in this manual and local legislation.

Failure to comply could result in death or serious injury.

W0257A

⚠ WARNING

Improper operation or service of this machine can result in an accident.

When lifting a load the machine must be equipped with:

- safety valves,
- an overload indicator,
- a load fixing point,
- a load handling chart corresponding to the type of machine and to its attachment.

Failure to comply could result in death or serious injury.

W1168A

NOTICE: *the machine has been specifically designed to perform digging/loading works. If you handle suspended loads with this machine, you must equip the machine with the appropriate optional equipment including safety valves, load handling eye, load lifting table, and an overhead warning alarm. Make sure to handle suspended loads following strictly all current Regulations regarding this application, as well as the rules described in the SAFETY INFORMATION chapter.*

NOTICE: *make provision for lifting devices that comply with current Regulations for lifting applications. Make sure that the lifting devices (hooks, chains etc.) are in perfect conditions without any sign of excessive wear. Make sure to use self-locking hooks in order to avoid unintended opening during lift operation. The lifting devices can be used exclusively for the lifting of parts not anchored to the ground. Never use them for towing operations, uprooting or tearing apart.*

NOTICE: *a suspended load can swing freely, and it can thus hit persons or the cab of the machine. Make sure that all bystanders are moved away from the field of action of the machine, and make sure to handle the load slowly. If the load starts to swing during the handling, lower it slowly to the ground and sling it in a way that avoid unintended swinging as much as possible.*

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