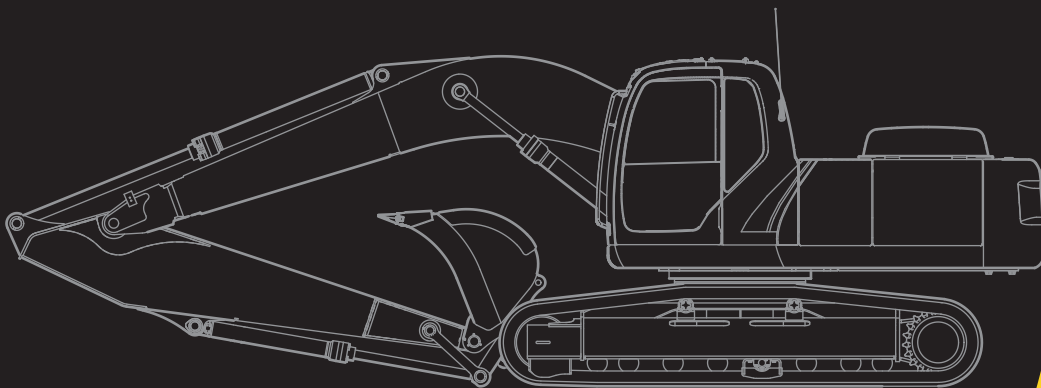


OPERATOR'S MANUAL

E265B

E305B

Crawler Excavators ROPS Tier III



Print no. 84267901

1st Edition

English 03/10 ORIGINAL INSTRUCTIONS



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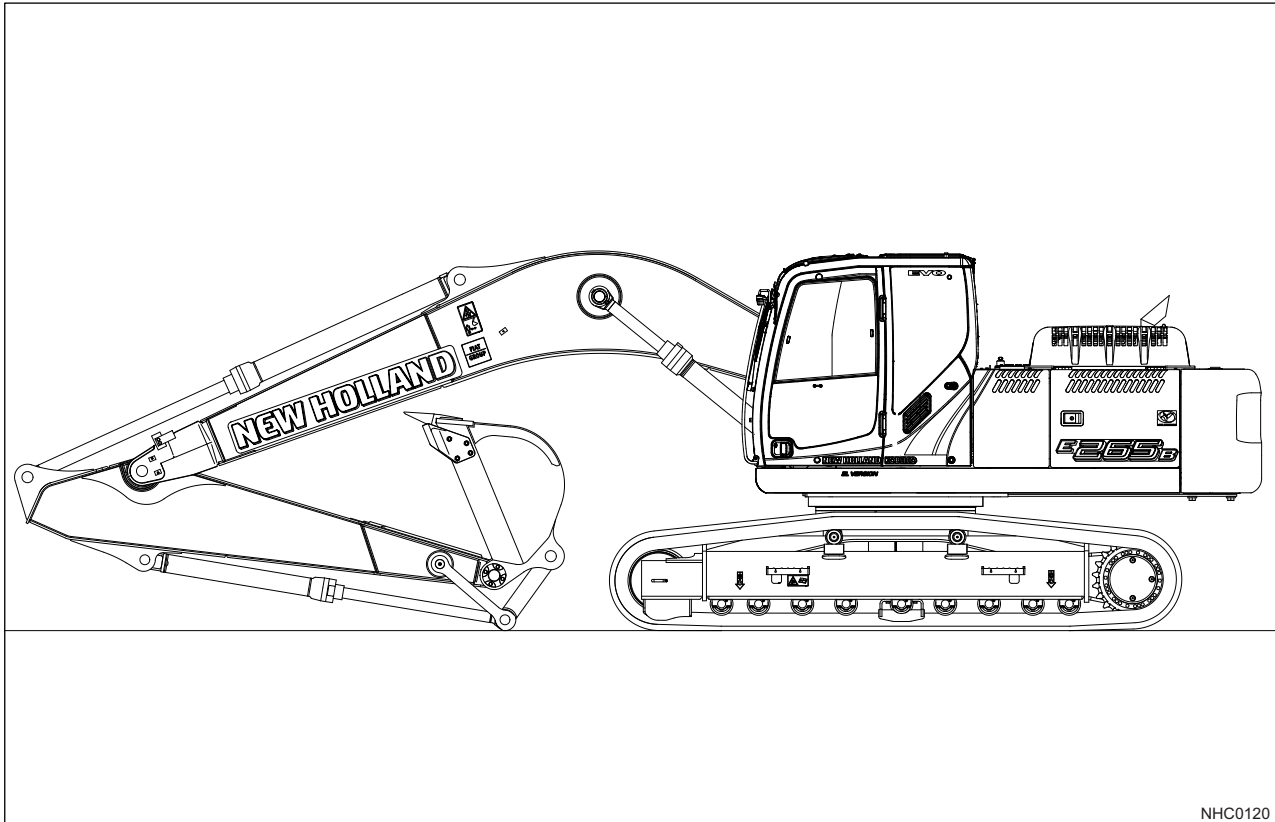


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INTRODUCTION

The E265B / E305B excavator is a hydraulically operated machine. It consists of an undercarriage fitted with tracks and a swing bearing which supports the upper frame. The upper frame supports the attachment, the engine, the hydraulic components, the cab, the fuel tank and the counterweight. When the operator activates the controls (pedals/levers), the hydraulic pumps, operated by the engine, sucks the oil from the tank, sending it to the control valve which sends the oil to perform the request operation. A cooling system maintains the hydraulic oil at normal operating temperature.



INTENDED USE



WARNING

Do not use the excavator for operations which are foreign to its specifications and not included in this manual in order to prevent serious injury to persons or damage to the machine. The manufacturer/dealer is not responsible for damage caused by improper use.

The excavator has been designed to carry out digging and earth moving operations through the use of a bucket. Operations that involve the use of hydraulic hammers or crushers are also possible. Other operations, such as moving suspended loads, are only possible if the specific variant approved by the manufacturer is present.

Using the excavator and its equipment for different operations, such as, for example, towing, transporting and lifting people, is considered inappropriate and is prohibited.

Always lock all moving components or parts of the machine that must be lifted for maintenance purposes using adequate external means as required by local and national regulations. Do not allow anyone to pass or stay near or below a raised attachment. If you are not absolutely sure about your safety, do not stay or walk under a raised attachment.

Do not place head, body, limbs, hands, feet or fingers near articulated cutting edges deprived of the necessary guards, unless they are suitably and safely locked.

Never lubricate, repair or adjust the machine with the engine running, except when this is specifically required by the Operation and Maintenance Instruction Manual.

Do not wear loose clothing, jewellery near rotating parts.

When service or maintenance require access to areas that cannot be reached from the ground, use a ladder or step platform conforming to local or national regulations to reach the working area. If such means are not available, use machine grab rails and steps. Always perform all service or maintenance work with the greatest care and attention.

Shop and/or field service platforms or ladders should be manufactured and maintained in accordance with local or national safety regulations in force.

Disconnect batteries and label all controls to warn that service work is in progress, according to local and national safety regulation requirements.

Block the machine and all attachments to be raised according to local and national safety regulation requirements.

Do not check or fill fuel tanks or install batteries near burning or smoking materials and open flames due to the presence of flammable vapours.

The fuel filler pipe nozzle must be constantly kept in contact with the filler neck and this even before fuel starts flowing in. Keep this contact from the beginning to the end of the fuelling operation to avoid possible generation of sparks due to static electricity.

Use a truck or trailer to haul a failed machine. Should it be necessary to tow it, provide for suitable danger signals as required by the local norms and regulations and observe recommendations given in the Operation and Maintenance Instruction Manual. Load/unload the machine on firm level ground providing safe support to the wheels of the truck or trailer. Use strong access ramps, with adequate height and angle. Keep the trailer flatbed free of mud, oil or slippery materials. Tie the machine securely to the trailer and block carriages and upperstructure.

Never align holes or slots using your fingers; always use appropriate aligning tools.

Remove all sharp edges and burrs from re-worked parts.

Use only approved and effectively grounded auxiliary power sources for heaters, battery chargers, pumps and similar equipment to reduce electrical shock hazard.

Lift and handle heavy components using hoisting devices of appropriate capacity. Ensure the parts are supported by appropriate straps and hooks.

Use lifting eyes provided to this aim.

Pay attention to bystanders near the lifting area.

Never pour gasoline or diesel fuel into open containers. Never use gasoline, solvents or other flammable fluids to clean parts. Use proprietary certified non-flammable, non-toxic solvents only.

When using compressed air to clean parts, wear safety glasses with side shields. Limit pressure to max. 2 bars, in accordance with local and national safety regulations in force.

Do not run the engine of this machine in closed buildings without proper forced ventilation capable to remove toxic exhaust gases concentrating in the air.

Do not smoke, nor allow open flames or sparks nearby while refuelling the unit or handling highly flammable materials.

Do not use open flames as light sources to look for leaks or inspect anywhere on the machine.

Make sure that all mechanical tools provided are in good condition at all times. Never use tools with mushroomed or damaged heads. Always wear eye protections with side shields.

Move with extreme care when working under, on or near the machine or its attachments.

In case of attachment tests during which the engine should be kept running, a qualified operator must sit in the driver's seat at all times while the mechanic is at work.

Keep hands and clothes far off moving parts.

Stop the engine and move the safety lever to the lock position before starting adjusting or repairing an assembly.

Do not carry out any work on the attachment without prior authorisation. Observe maintenance and repair procedures.

In case of field service, move the machine to level ground and block it. If work on an incline cannot be avoided, securely block the machine and its attachments. Move the machine to level ground as soon as possible.

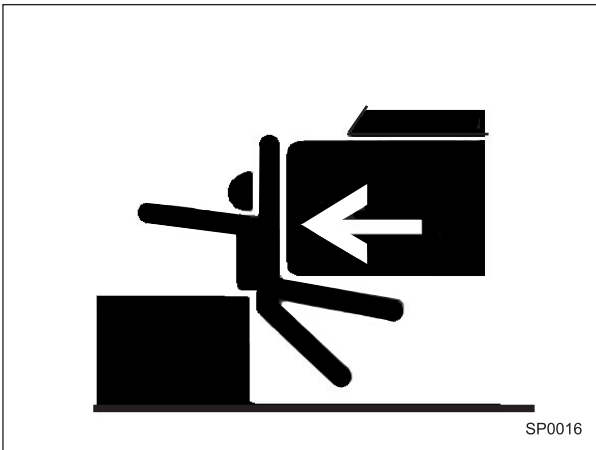
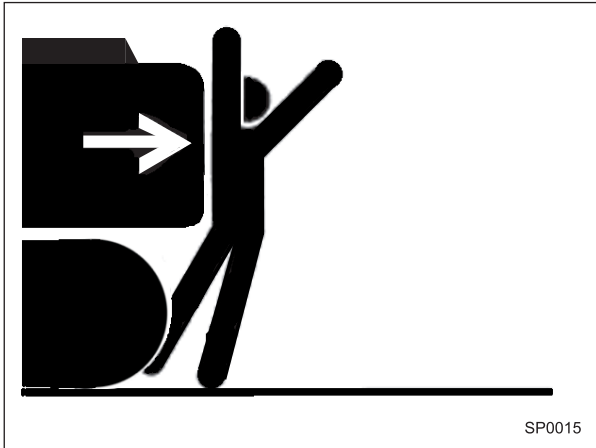
Do not twist chains and cables. Never use a twisted chain or cable for lifting or pulling. Always wear safety gloves to handle chains or cables.

Be sure chains and cables are firmly fastened and that the anchor point is strong enough to withstand the expected load.

Keep all bystanders clear of the anchor point, cables or chains. **Do not pull or tow unless the opera-**

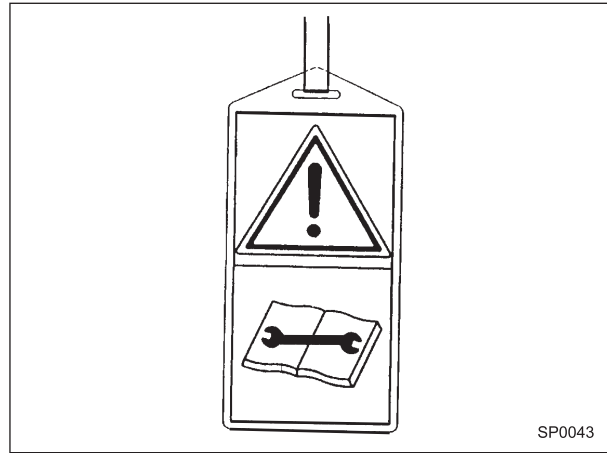
AVOID INJURY FROM BACK-OVER AND SWING ACCIDENTS

- If any person is present near the machine when backing or swinging the upperstructure, the machine may hit or run over that person, resulting in serious injury or death.
- To avoid back-over and swing accidents:
 - Always look around **BEFORE YOU BACK UP AND SWING THE MACHINE. BE SURE THAT ALL BYSTANDERS ARE CLEAR.**
 - **ALWAYS BE ALERT FOR BYSTANDERS MOVING INTO THE WORK AREA. USE THE HORN OR OTHER SIGNAL TO WARN BYSTANDERS BEFORE MOVING MACHINE.**
 - **USE A SIGNAL PERSON WHEN BACKING UP IF YOUR VIEW IS OBSTRUCTED. ALWAYS KEEP THE SIGNAL PERSON IN VIEW.**
 - Use hand signals, which conform to your local regulations, when work conditions require a signal person.
 - No machine motions shall be made unless signals are clearly understood by both signalman and operator.
 - Learn the meanings of all flags, signs, and markings used on the job and confirm with the person in charge of signalling.
 - Always make sure that rear mirrors are clean and correctly adjusted.
 - Dust, heavy rain, fog, etc., can reduce visibility. As visibility decreases, reduce speed and use proper lighting.



WARN OTHERS OF SERVICE WORK

- Unexpected machine movement can cause serious injury.
 - Before performing any work on the machine, attach a maintenance in progress tag (see also **SAFETY PLATES** in this Chapter) . This tag can be applied o the left-hand control lever, safety lever or cab door.



SP0043

SUPPORT MACHINE PROPERLY

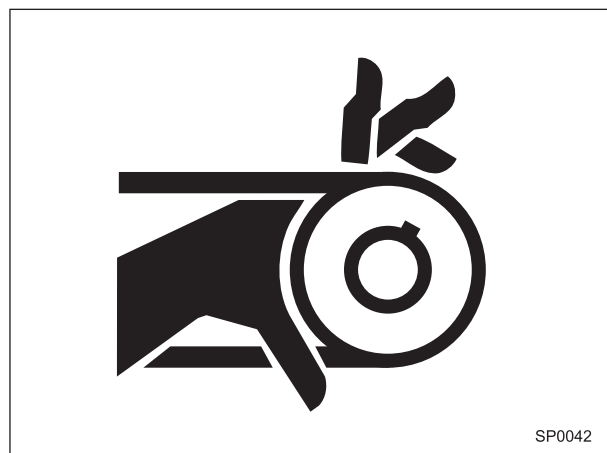
- Never attempt to work on the machine without securing the machine first.
 - Always lower the attachment or tool to the ground before working on the machine.
 - If you must work on a lifted machine or attachment, securely support the machine or attachment.
 - Do not support the machine on cinder blocks, bollow tires, or props that may crumble under continuous load.
 - Do not work under a machine that is supported solely by a jack.



SP0040

STOP THE ENGINE PRIOR TO PERFORMING MAINTENANCE OPERATIONS

- DO NOT perform any maintenance operation with the engine running. Trapping by moving parts could cause serious injuries. Stop the engine and wait that it cools-off prior to performing maintenance operations. In case it is indispensable to perform maintenance operations with the engine running, have a person co-operating with you sitting in the operator's seat, to cut-off the engine immediately in case of necessity.



SP0042

WELDING REPAIR INTERVENTIONS

- Welding repair interventions must be performed only by a certified welder with sufficient experience. Also, appropriate safety rules must be implemented by all the personnel involved in the operations. The duration through time of the welding depends upon the quality and the accuracy with which the operation is performed.
 - Identify first all the fracture points and the zones in which welding is required.
 - Clean accurately the zones involved.
 - Remove all paint and inspect the parts with penetrating liquid or a magnetic particle tester.
 - Move the starter switch into position "**OFF**" and wait for 4 seconds to cut-off electricity from the system.
 - Disconnect the negative terminal (-) from the battery.
 - Connect the ground cable of the welder at least 1 m from the component to be welded.
 - Make sure that the ground cable is NOT connected to a seal or bearing and that there are no seals or bearings between the ground cable and the part to be welded.
 - Avoid welding pieces at low temperature i. e. below 16 °C. If necessary, warm-up the part involved prior to welding it.
 - Remove paints from all surfaces prior to warming-up or welding. Painted surfaces, when warmed-up or when welded, can generate toxic fumes.
 - Use appropriate masks or protective glasses.
 - Wear gloves and adequate clothing to protect the skin.

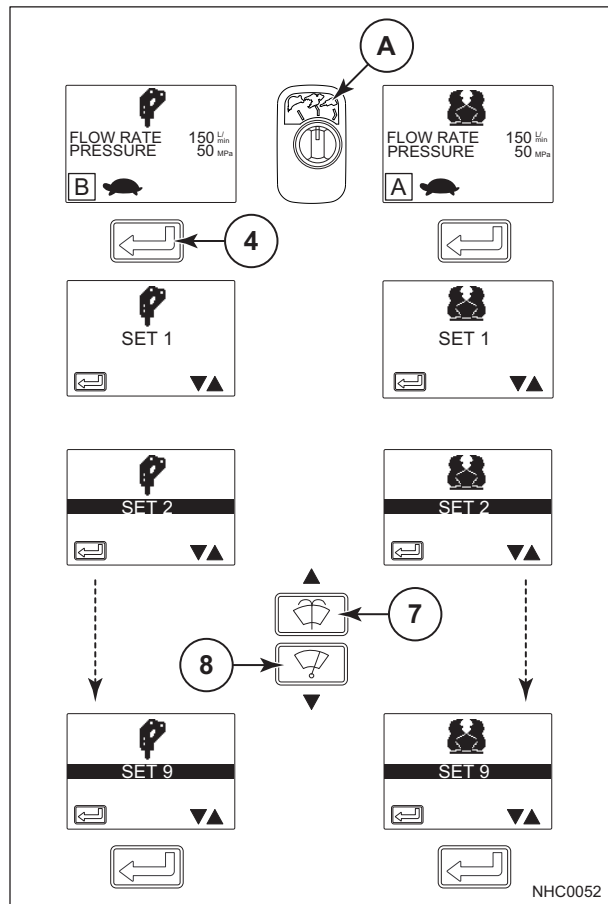


4- Breaker/crusher flow rate

Depending upon the type of breaker or crusher mounted, it is possible to select one of the nine pre-set flow rate/pressure settings.

To select one of the nine settings, proceed as follows:

- Turn the starter key into position "ON". The display shows the main screen.
- Rotate the "Attachment Mode" switch (A) to "Crusher" or "Breaker" position.
- Press "Select" button (4) to enter the selection menu of the pre-set flow rate values.
- Select the setting using windshield washer button (7) or wiper button (8).
- Confirm the setting by pressing "Select" button (4).



NHC0052

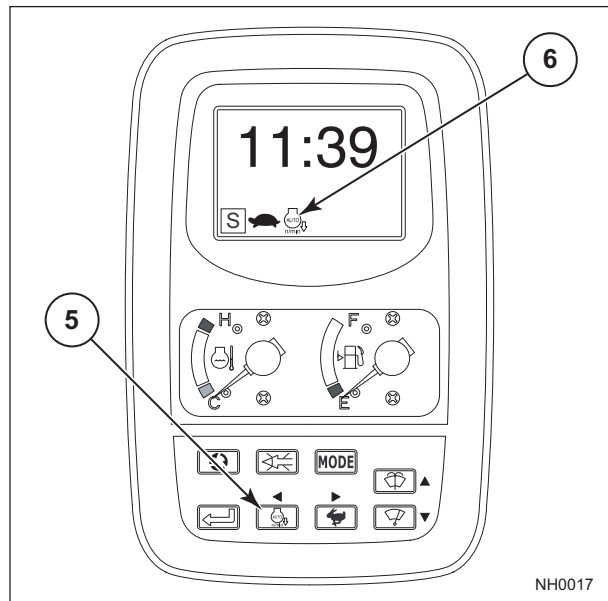
Auto-Idle button



With the engine running, press Auto-Idle button (5) to bring the engine to the pre-set automatic idle speed, providing a reduction of the noise and fuel consumption. This speed is achieved after about 5 seconds, providing that no control levers are actuated. The activation of the Auto-Idle function is indicated on the monitor by the relevant indicator light (6) coming ON.

NOTE: when a control lever is actuated or the Auto-Idle function is deactivated, the engine speed returns to the speed established by the position of the engine speed throttle.

To deactivate the Auto-Idle function, press again button (5). The relevant indicator light (6) goes OFF.



NH0017

Parking brake release switch



WARNING

The release operation of the swing parking brake must be done exclusively following a malfunction of the brake release system.

Switch (1) releases the swing parking brake, in case it does not occur normally during the swing and arm retracting operations. To release the parking brake, operate as follows:

Remove panel (2) from its seat.

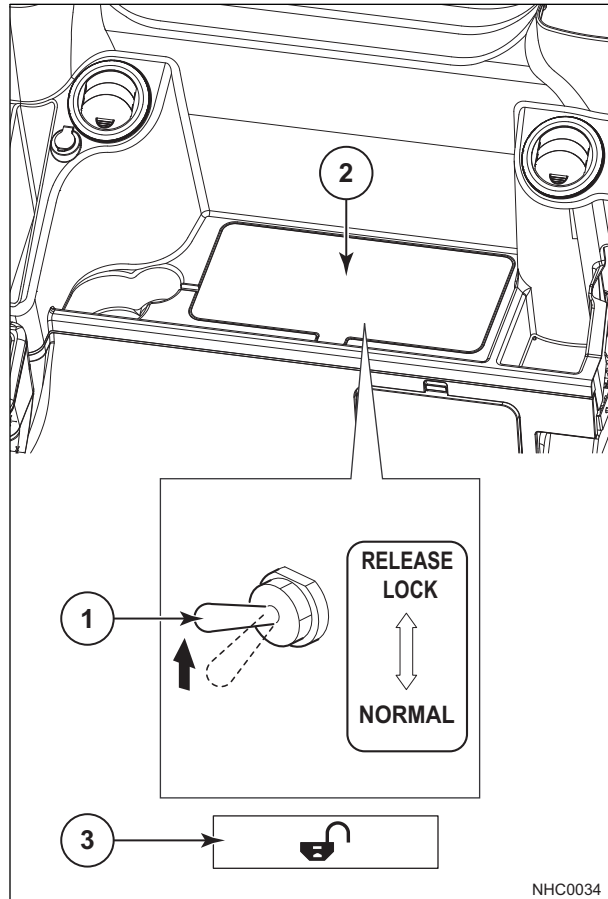
Release the parking brake moving switch (1) into "RELEASE LOCK" position. The monitor shows the relevant icon (3) and the alarm buzzer is activated.

Thus, it is possible to swing the turret by actuating the relevant control lever. Then, contact the dealer.



WARNING

Never operate with the swing parking brake released. This mode must be used only to move the machine into safe conditions.



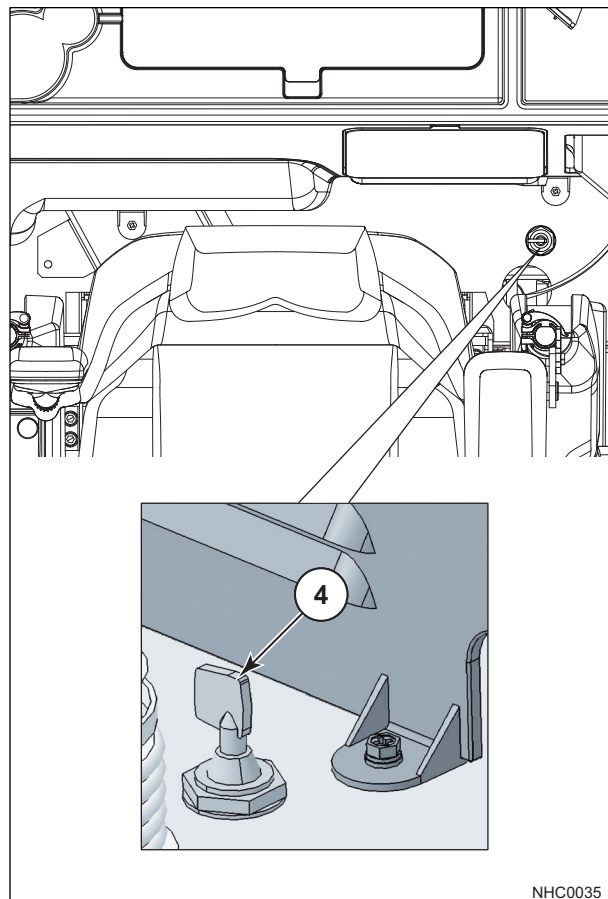
Hydraulic anti theft (upon request)

The hydraulic anti theft neutralises all the controls, preventing any movement of the machine.

To deactivate the hydraulic anti theft proceed as follows:

- Insert key (4) and turn it clockwise 90°.

NOTE: when the hydraulic anti theft is inactive, it is not possible to extract key (4).



FRONT WINDSCREENS AND WINDOWS

Sliding the front windscreen open/closed

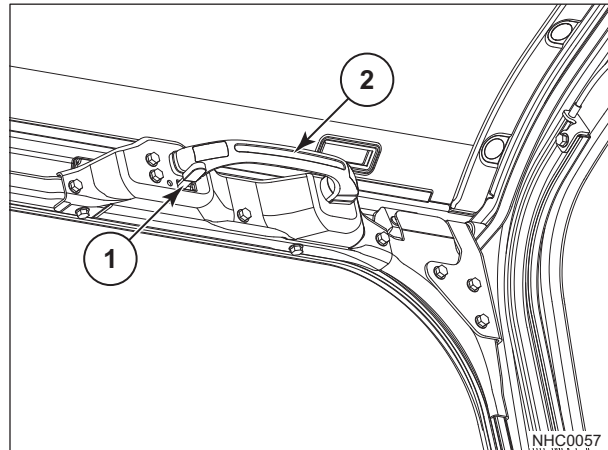
To open the front windshield, proceed as follows:

- Move lever (1) of the locking device downward.
- Using handles (2), slide the windshield in the relevant guides made on the cab frame to stroke-end.



CAUTION

Always make sure that the windshield is locked. Also, once the windshield is locked, device is actuated, deactivating the wiper control.



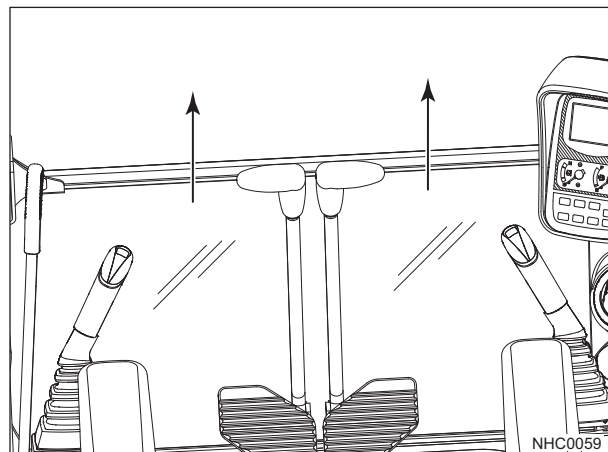
To close the front windshield, proceed as follows:

- Unlock the windshield moving lever (1) upward.
- Lift slightly the windshield and slide it using handles (2) along the guides made on the cab frame to stroke-end.

Removing/repositioning the front and rear windshields

NOTE: to remove the lower windshield it is necessary to open the front windshield.

Slide the lower windshield upward and remove it, ensuring that it is stored in the appropriate compartment over the rear panels.



| INSPECTIONS PRIOR TO STARTING THE ENGINE | | | | |
|--|---------|-----------|-------|-------|
| ITEM TO BE CHECKED | Replace | Lubricate | Clean | Check |
| Engine oil | | | | |
| Engine cooling system | | | | |
| Hydraulic system oil | | | | |
| Fuel tank | | | | |
| Windscreen washer tank | | | | |
| Fuel pre-filter | | | | |
| Adjusting the operator's seat | | | | |
| Adjusting the rear mirrors | | | | |

ENGINE OIL

Visual inspection and topping-up



DANGER

Do not run machine engine in confined spaces without proper ventilation and/or suitable system capable to remove harmful exhaust gases.



WARNING

Always ensure that the engine hood, once in the open position, is securely locked by means of the locking rod: danger of personal injury.



CAUTION

You are reminded that the engine and the oil can reach high operating temperatures, thus it is essential, while performing this operation with engine still hot, to wear safety clothing and devices to prevent burns.

IMPORTANT:

- *prior to checking the engine oil level, check that the machine is positioned on a flat surface;*
- *always check the engine oil level prior to starting the engine;*
- *if the engine oil level check is done at the end of the work shift, wait at least 30 minutes from the cutting-off of the engine before proceeding with the check.*

STARTING THE ENGINE USING BOOSTER BATTERIES



WARNING

Explosive gas is produced while batteries are in use or being charged. Keep open flames and/or sparks away from the battery charging area. Charge the batteries in a well ventilated place. Park the machine on a dry firm, surface. Do not park on metal surfaces. Take care to make correct connections: never connect a positive terminal (+) to a negative terminal (-).

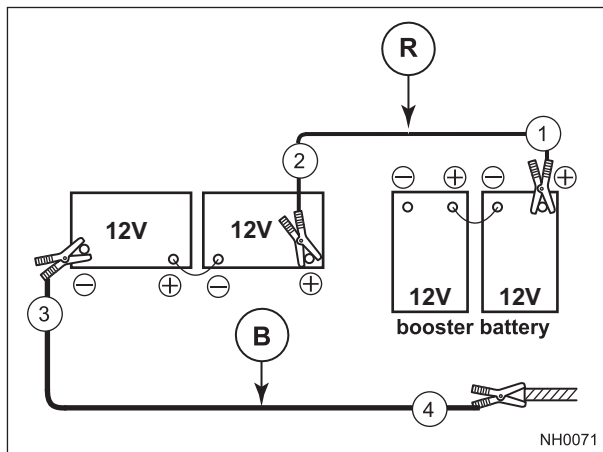
IMPORTANT: the machine electrical system is 24 V with negative (-) ground. Use only booster batteries with same voltage. Use supply cables and terminals of appropriate dimensions for the characteristics of the batteries.

Connecting booster batteries

Make sure that the starting key is in position **OFF** before connecting the supply cable.

Proceed in the following order:

- connect one terminal of the red cable (**R**) to the positive (+) pole of machine batteries and the other terminal of same cable to the positive (+) pole of booster batteries.
- connect one terminal of the black cable (**B**) to the negative (-) pole of booster batteries and the other terminal of same cable to ground (machine frame).
- start the engine.



Disconnecting booster batteries

Proceed in the following order:

- disconnect the black cable (**B**) terminal from ground (machine frame), then disconnect the other terminal of same cable from the negative (-) pole of booster batteries.
- disconnect the red cable (**R**) terminal from the positive (+) pole of booster batteries, then disconnect the other terminal of same cable from the positive (+) pole of machine batteries.

Connecting sequence of the supply cables:

1 - 2 - 3 - 4

Disconnecting sequence of the supply cables:

4 - 3 - 2 - 1

Actuating the positioner (Triple Articulation Version)



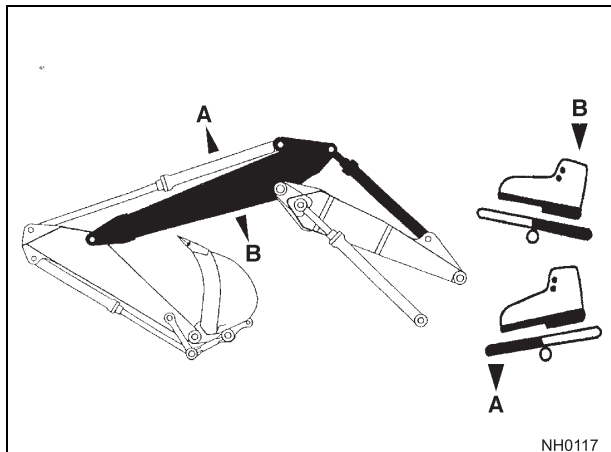
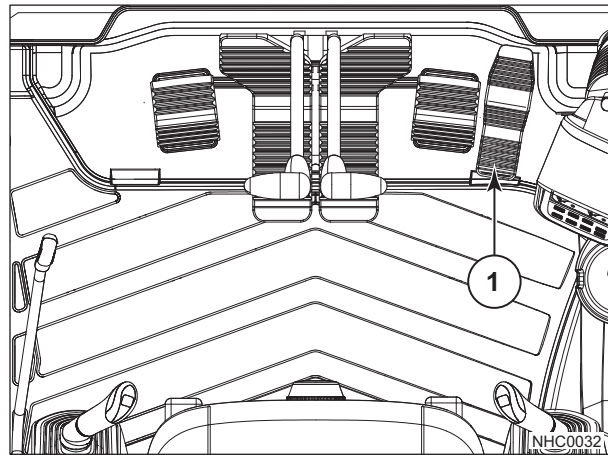
WARNING

Pay the utmost attention when operating the attachment near the cab. In particular configurations or with special equipment, the attachment could reach and hit the cab. Move the attachment at a safe distance from the cab to prevent damages or personal injuries.

The positioner is actuated when pressing control pedal (1) with the right foot.

The speed of the movement of the positioner is determined by the stroke of the pedal.

1. When pressing with the tip of the right foot FORWARD, the positioner is extended.
2. When pressing with the heel of the right foot BACKWARD, the positioner is retracted.
3. When the pedal is released, it returns automatically into neutral position and the positioner stops moving.



SWINGING THE TURRET



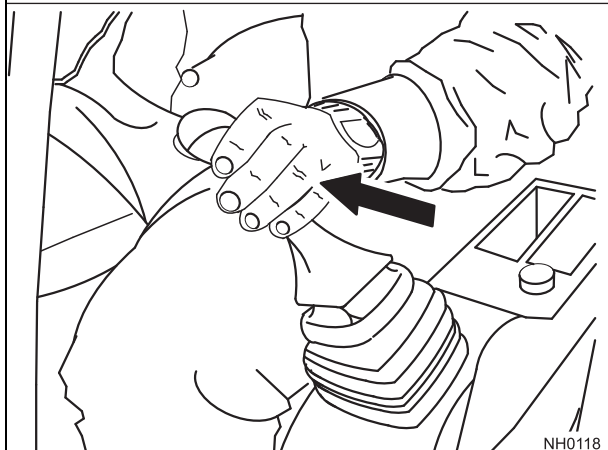
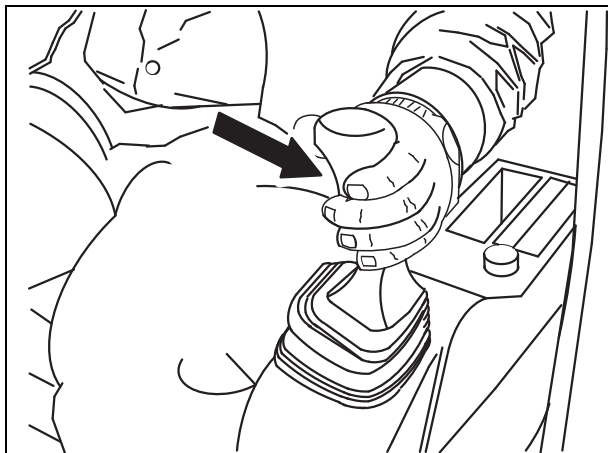
WARNING

Make sure that the work area is free from obstacles and bystanders prior to start swinging the turret. Sound the horn prior to starting the swinging.

The turret swings when the left control lever is moved rightward or leftward.

The swinging speed is determined by the stroke of the lever.

1. When moving the left control lever leftward, the turret swings leftward.
2. When moving the left control lever rightward, the turret swings rightward.
3. When returning the left control lever centrally (neutral position) the turret stops swinging.



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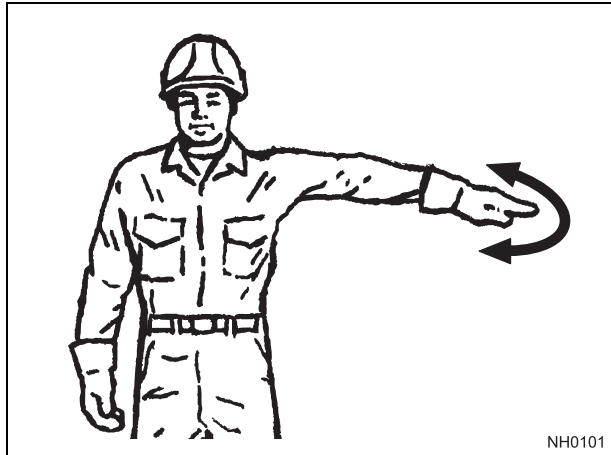


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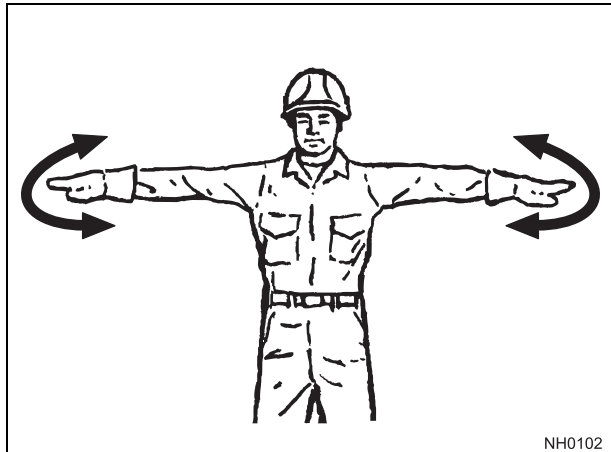
U. Stop

Face machine operator, raise left arm out horizontally from shoulder with hand open and facing down, move arm in a horizontal motion back and forth.



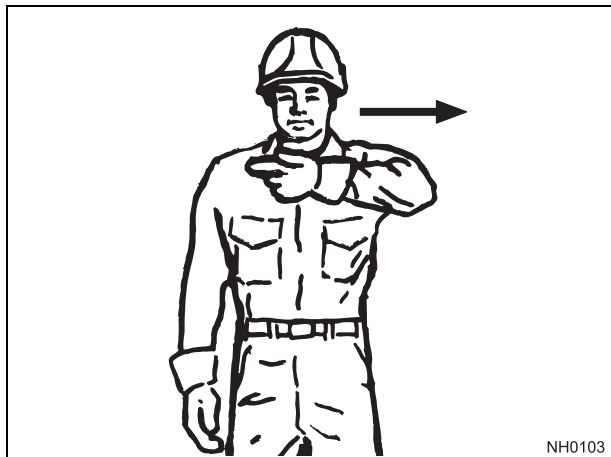
V. Emergency stop

Face machine operator, raise both arms out horizontally from shoulders with hands open and facing down, move arms in a horizontal motion back and forth.



W. Stop engine

Face machine operator, right arm at side, draw left thumb or index finger across throat.



Loosening the track



WARNING

Do not loosen the valve (1) quickly or too much as grease pressure inside the cylinder might dangerously eject it off its seat.

Loosen the valve with care, keeping the body parts and face away from the valve (1).

Never loosen the grease fitting (2).

IMPORTANT: remove any matter such as mud or gravel possibly stuck between sprockets and track links before loosening.

- To loosen the track chain, turn slowly valve (1) anticlockwise.

Wrench used: 19 mm

Then, the grease shall start getting out the base of the valve.

- 1 to 1.5 turns of the valve (1) are sufficient to loosen the track.

NOTE: if grease does not come out evenly, slowly rotate the raised track.

- When proper track sag is obtained, turn valve (1) clockwise and tighten.

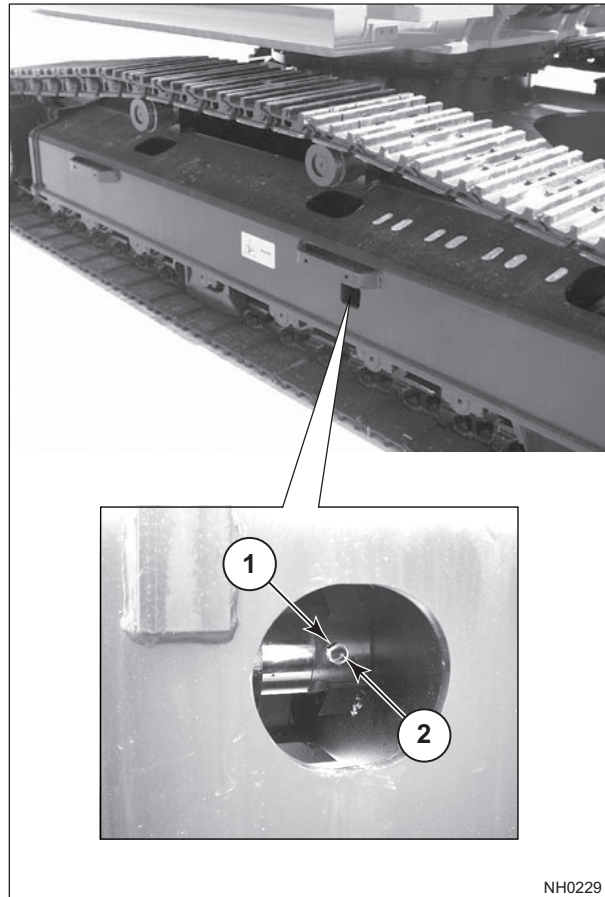
Tightening the track



WARNING

It is abnormal if the track remains tight after turning valve (1) anticlockwise or if the track is still loose after charging grease through the grease fitting (2). In such cases **NEVER ATTEMPT TO DISASSEMBLE** the track or the track adjuster due to dangerous high-pressure grease inside the track adjuster. Contact your Dealer immediately.

- To tighten the track, inject grease from a grease gun into fitting (2) until sag is within specification.

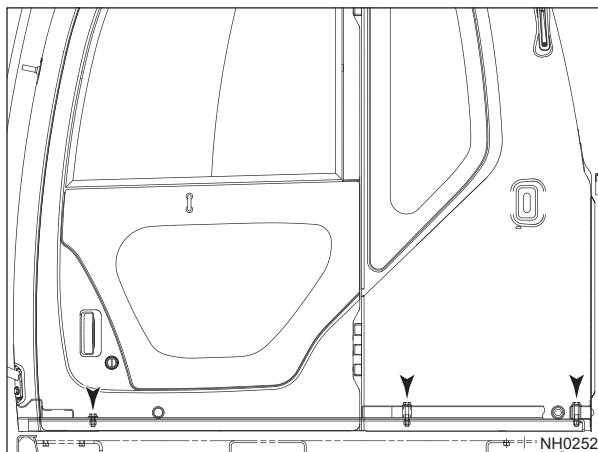


NH0229

Cab mounting bolts

- Check cab mounting bolts torque as follows:

- Bolt: M12
- Torque: 80 ± 8 Nm
- Bush: 19 mm

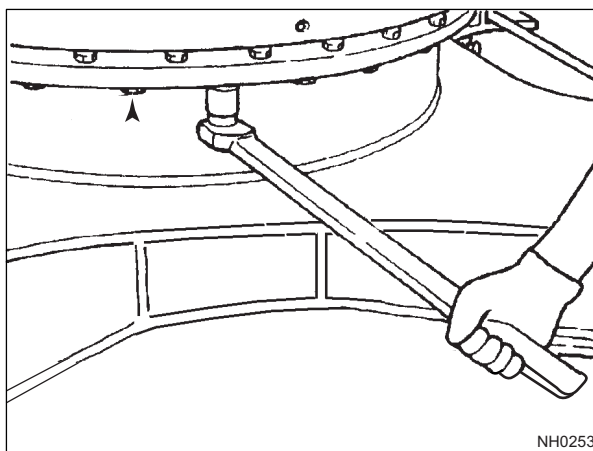


Swing bearing retaining bolts

- Check torque of the swing bearing to carriage bolts (**A**) and swing bearing to upperstructure bolts (**B**) as follows:

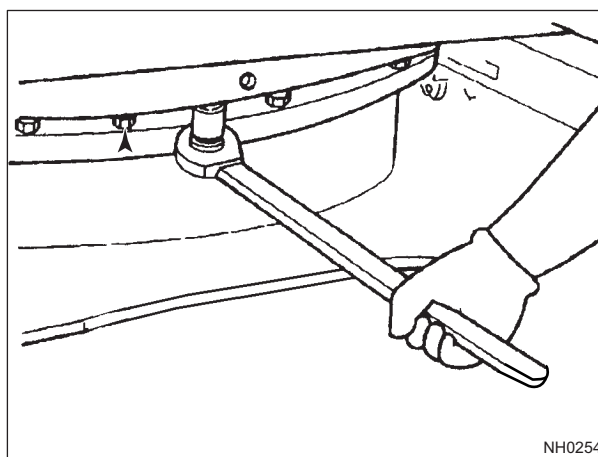
Swing bearing to carriage bolts:

- Bolt: M20
- Torque: 570 ± 30 Nm
- Bush: 30 mm



Swing bearing to upperstructure bolts:

- Bolt: M20
- Torque: 392 ± 39 Nm
- Bush: 30 mm



ENGINE OIL COALESCENT FILTERS

Replacement

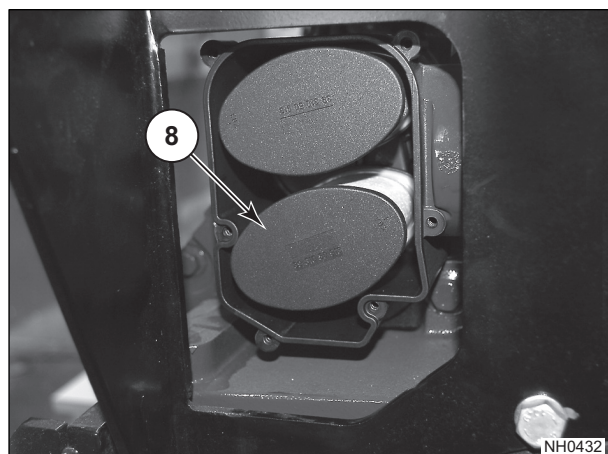
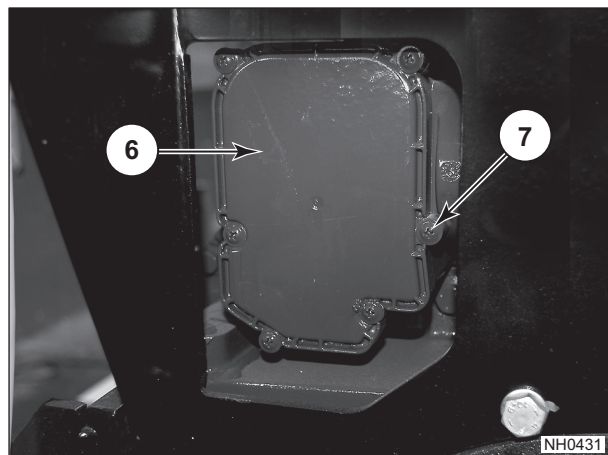
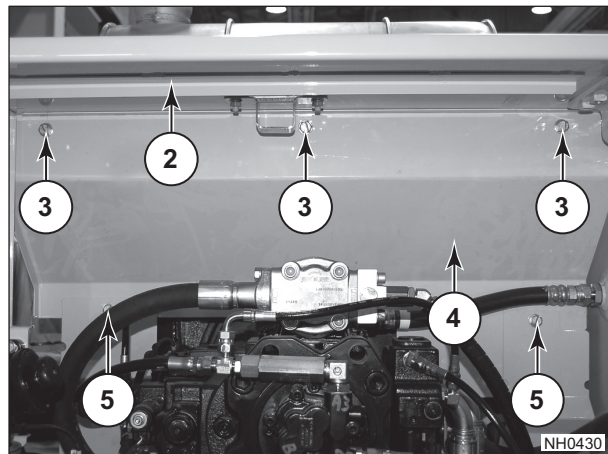
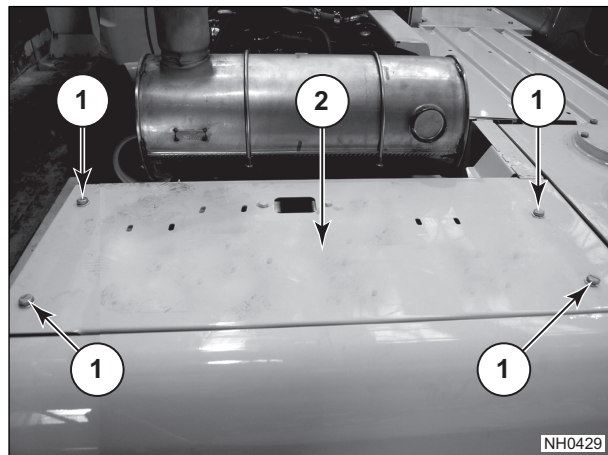


WARNING

Shut off the engine and let it cool down prior to replacing the filters.

Should the replacement be necessary with engine still hot, be sure to wear proper safety equipment. Danger of severe burns.

- Open the engine hood and lock it in open position.
 - Loosen the upper four M12 screws (1) of cover (2) using a 19 mm wrench.
 - Open the pump compartment and lock it in open position.
 - Remove cover (2) by loosening the inner three M12 screws (3) using a 19 mm wrench.
 - Remove cover (4) by loosening the two M12 screws (5) using a 19 mm wrench.
 - Remove the coalescent filters cover (6) by loosening the six screws (7).
 - Extract filters (8) and replace them with new ones.
 - Extract seal from cover (6) and replace it with new one.
 - Reinstall cover (6) and tighten the six screws (7).
 - Reinstall cover (4) and cover (2) by tightening the relevant M12 screws.
- Torque: 80 Nm.



AFTER 2000 OPERATING HOURS

| ITEM TO BE CHECKED | Replace | Lubricate | Clean | Check |
|-----------------------------------|---------|-----------|-------|-------|
| Travel side reduction units | | | | |
| Swing reduction unit | | | | |
| Engine cooling system | | | | |
| Swing gear | | | | |
| Pilot system hydraulic oil filter | | | | |
| (*) Biodegradable hydraulic oil | | | | |

(*) Upon request

TRAVEL SIDE REDUCTION UNITS

Oil replacement



WARNING

You are reminded that the travel reduction units and their oil can reach, during operation, high temperatures, thus it is indispensable to protect body and limbs with appropriate clothing, glasses and protections, since there is a danger of burns and personal injuries.

Loosen slowly the threaded plugs for the inspection of the oil level in the reduction units. This is to allow a slow bleeding of the pressure created inside the final drives.

When changing the oil, stand in a out-of-line position with respect to the side of the reduction units and always wear protective glasses.

The operation for the alignment of the reduction units filling and level check plugs, described here below, must be made with an assistant on the ground. However, this assistant must always stand away from the field of action of the machine.

Never perform maintenance or inspection operations on the circuits of the travel motors on gradients. They are strongly pressurised due to the effect of the weight of the machine.

- Park the machine on a level surface.
The reduction units should be positioned as to have the plugs (1), (2) as shown.
Observance of this position is essential to proper servicing.
- After positioning the reduction unit for either discharge or filling, set the machine controls as follows:

- Rest the bucket to the ground.
- Deactivate the Auto-Idle function, turn the engine speed throttle fully anticlockwise, stop the engine, extract the starter key and place the safety lever in (**LOCK**) position.

AFTER 3000 OPERATING HOURS

| ITEM TO BE CHECKED | Replace | Lubricate | Clean | Check |
|--------------------|---------|-----------|-------|-------|
| Engine valves (*) | | | | |

ENGINE VALVES

Valve check and adjustment



WARNING

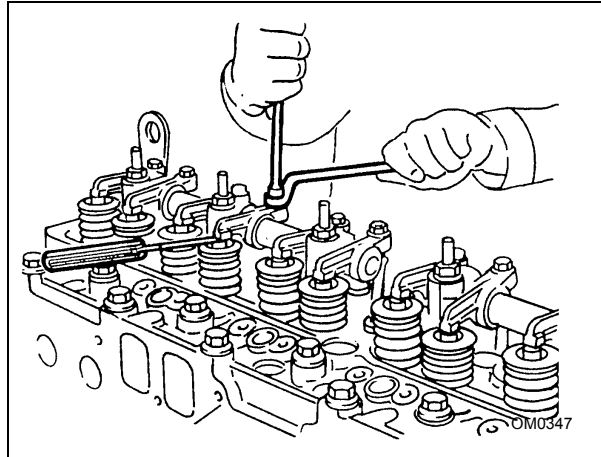
Always ensure that engine hood is correctly locked in the open position. Danger of personal injuries.



CAUTION

The engine reaches high working temperatures. Therefore, it is necessary to let the machine cool down prior to carrying out this operation.

IMPORTANT: contact your authorised Dealer to perform this service.

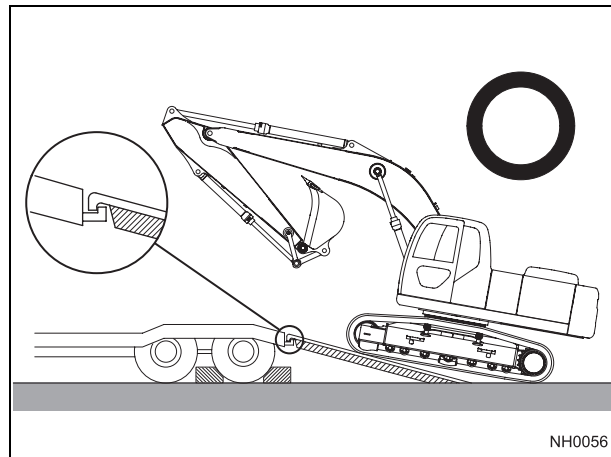
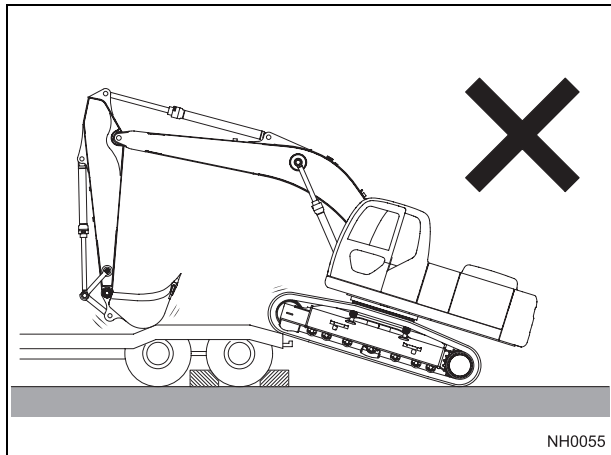


- Valve clearance is as follows:
 - Intake: 0.25 ± 0.05 mm
 - Discharge: 0.50 ± 0.05 mm

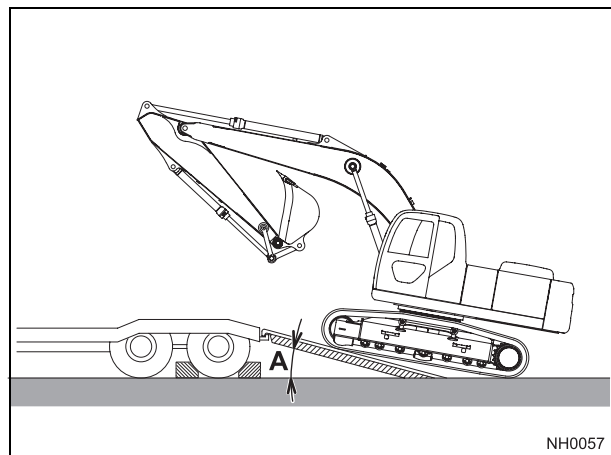
LOADING/UNLOADING THE MACHINE

**WARNING**

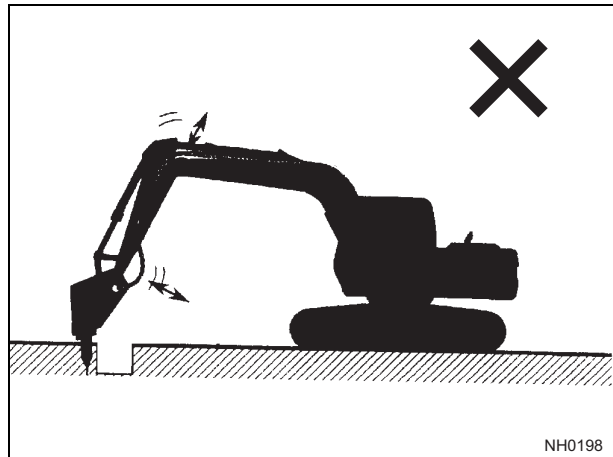
- **Ensure that any person near the working site is outside the machine operating range before starting the machine or operating the attachment.**
- **The machine loading and unloading work should be carried out on the firm and level ground.**
- **Use ramps which have sufficient width, length, thickness and strength.**
- **Slow speed travelling is necessary to load and unload the machine.**
- **It is hazardous to use the attachment for loading and unloading the machine. Do not use the attachment for loading and unloading.**
- **Use only the travelling controls when the machine is on the ramp.**
- **Be prepared for a change in the machine position as the machine travels up or down the ramp. The machine may rock forward or rearward as the machine centre of gravity changes when travelling on the ramp or on the border between the track/trailer and the ramp.**
- **Turn AUTO-IDLE switch off surely. The operation with the AUTO-IDLE switched on may cause sudden engine speed change.**
- **Remove mud, etc. from the tracks of machine surely to prevent skidding. And remove water, snow, grease oil, etc. surely.**
- **Do not change the course on the ramps to prevent rolling over. Return to ground or trailer's bed once and change the travelling direction.**

**In Cases where Making Use of ramps****Loading**

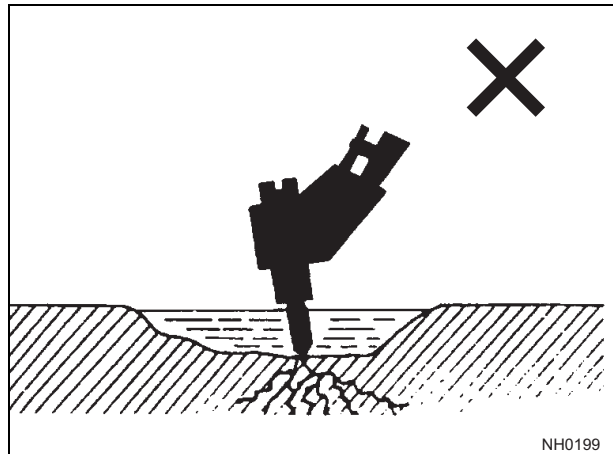
- Load machine from firm and level ground.
- Do not fail to put blocks to the tire of trailer to prevent machine from moving.
- The width and height of the loading area (earthen bank or loading platform ramp) must be high enough to match the trailer and wide enough to match the width of the machine and trailer, or wider.
- Make sure the machine position is aligned to ramps, and travel slowly with the dozer (if equipped), raised position. The arm and boom held at angle shown in the figure, and the dozer equipped and attachment lowered as much as possible but do not interfere with trailer bed. And travel slowly.
The ramp slope (A) should be 15° or less



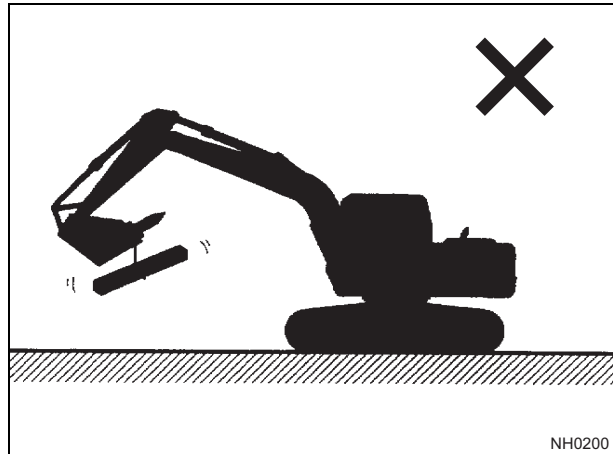
4. Stop working if hydraulic hoses look abnormally bent.
Contact your authorised Dealer.



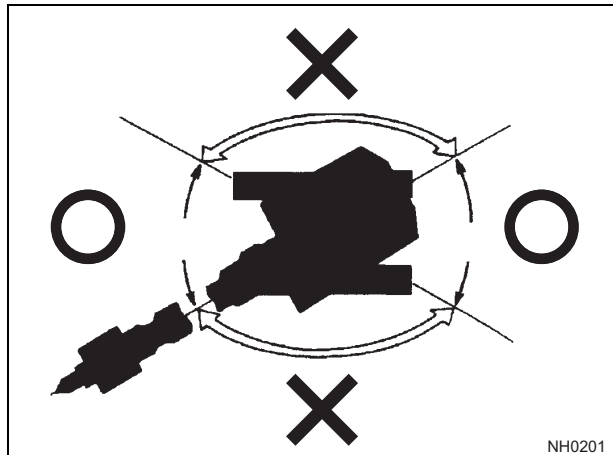
5. Do not operate the hydraulic breaker in water. Doing so will cause rust and seal damage, resulting in damage to the hydraulic system components.



6. Do not use the hydraulic breaker to move objects. The excavator might overturn and/or the hydraulic breaker may be damaged.



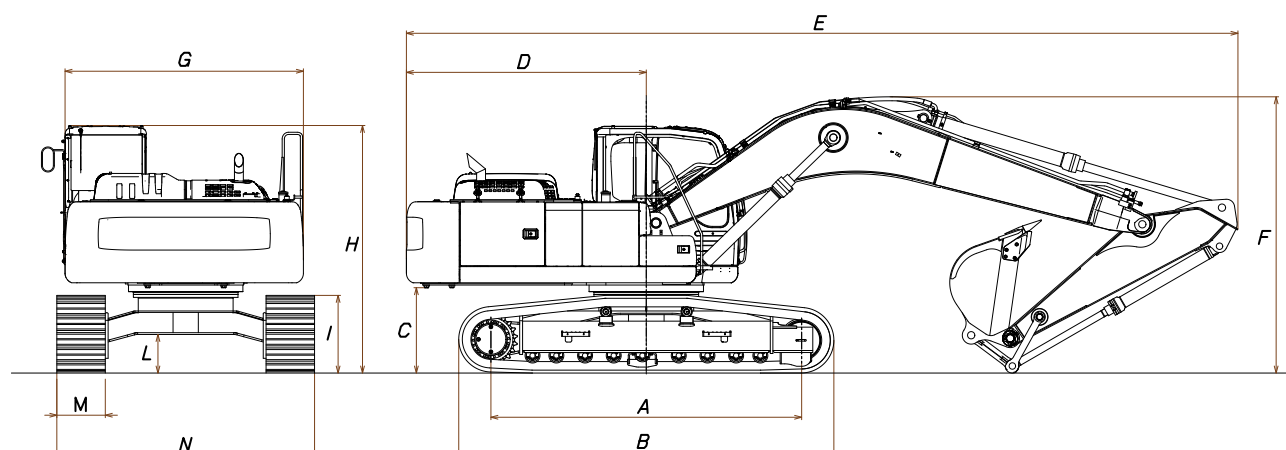
7. Do not operate the breaker to the side of the machine. The machine may become unstable and undercarriage component life may be reduced.



NOTES:

TRANSPORTING DIMENSIONS E305B

(Monoblock Version)



NHC0126

| VERSIONS | A | B | C | D | E | F | G | H | I | L |
|----------------|------|------|------|------|-----------|----------|------|------|------|-----|
| E305BEL | 3996 | 4867 | 1173 | 2969 | (1) 10566 | (1) 3571 | 2950 | 3181 | 1040 | 526 |
| | | | | | (2) 10390 | (2) 3482 | | | | |
| | | | | | (3) 10271 | (3) 3198 | | | | |
| | | | | | (4) 10284 | (4) 3253 | | | | |
| E305BLC | 3996 | 4867 | 1173 | 2969 | (1) 10566 | (1) 3571 | 2950 | 3181 | 1040 | 526 |
| | | | | | (2) 10390 | (2) 3482 | | | | |
| | | | | | (3) 10271 | (3) 3198 | | | | |
| | | | | | (4) 10284 | (4) 3253 | | | | |

Arm:

(dimensions in mm)

- (1) 2100 mm
- (2) 2400 mm
- (3) 3100 mm
- (3) 3750 mm

| | | E305BEL | | | | E305BLC | | | | |
|---------------------------|-------------------------|----------------|-------|-------|-------|----------------|-------|-------|-------|-------|
| M | Track shoe width | (mm) | 600 | 700 | 800 | 900 | 600 | 700 | 800 | 900 |
| N | Gauge | (mm) | 2990 | 3090 | 3190 | 3290 | 3190 | 3290 | 3390 | 3490 |
| Working weight (*) | | (kg) | 29590 | 29922 | 30256 | 30589 | 29680 | 30012 | 30346 | 30678 |
| Spec. ground pres. | | (bar) | 0.66 | 0.57 | 0.51 | 0.45 | 0.66 | 0.57 | 0.51 | 0.46 |

(*) With arm 3100 mm and bucket 1.1 m³

FUSES - RELAY

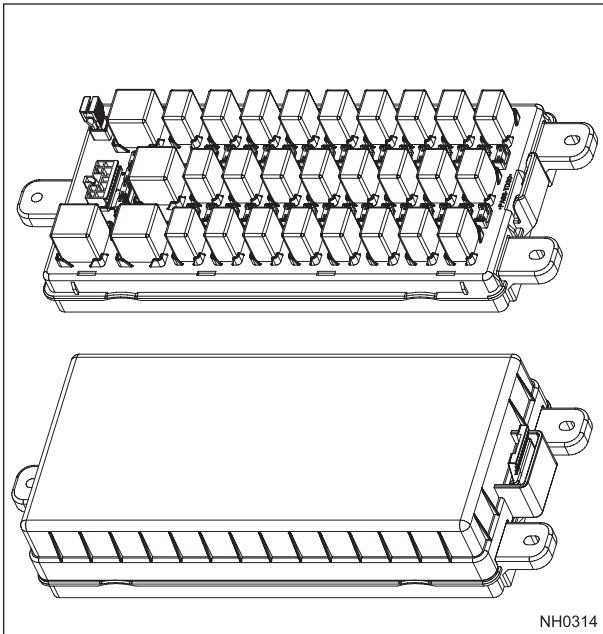
To reach the fuse box-relay, move the operator's seat fully forward, lower the backrest and remove protection (1).

A decal indicating the capacity and the location of the fuses and the locations of the relays is located on the cover of the fuse-relay box cover.

Also, there are high Amperage fuses located in the radiator compartment inside the protection box.



NH0312



NH0314



| | | | | | | | | | |
|-------------------------|---------------------------|------------------------|----------------|---------------------|---------------------|-----------------------|-------------------|-----------|----------|
| WINDOW WASHER MOTOR RLY | CAB WORKING LIGHT RLY1 | CAB WORKING LIGHT RLY2 | ALTERNATOR RLY | AUTO IDLE STOP RLY2 | AUTO IDLE STOP RLY1 | ENG. BREAKER STOP RLY | HORN RLY | OPT RLY11 | OPT RLY2 |
| DOWN LOAD CONNECTOR | WIPER MOTOR REVERSING RLY | EXTRA BUSINESS LIGHT | WORK LIGHT | SAFETY RLY | LEVER LOCK RLY | NIBBLER OPEN RLY | NIBBLER CLOSE RLY | OPT RLY3 | OPT RLY4 |
| PREVENT SPARK RLY | WIPER MOTOR OPT 4 | OPT 4 | OPT 1 | OPT 2 | OPT 3 | OPT 4 | OPT 5 | OPT 6 | OPT 7 |
| | OPT 8 | OPT 9 | OPT 10 | OPT 11 | OPT 12 | OPT 13 | OPT 14 | OPT 15 | OPT 16 |

CAUTION: USE DESIGNATED FUSE AND RELAY ONLY.

NH0309

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