Correct Maintenance and Inspection Procedures

Learn how to service your machine correctly. Follow the correct maintenance and inspection procedures shown in this manual.



SA-005

Inspect machine daily before starting.

- Check controls and instruments.
- Check coolant, fuel and oil levels.
- Check for leaks, kinked, frayed or damaged hoses and lines.
- Walk around machine checking general appearance, noise, heat, etc.
- Check for loose or missing parts.

If there is any problem with your machine, repair it before operating or contact your authorized dealer.

IMPORTANT:

- **Use only recommended fuel and lubricants.**
- **Be sure to use only genuine Kawasaki parts. Failure to do so may result in serious injury or death and/or machine breakdown.**
- **Failure to use recommended fuel, lubricants, and genuine Kawasaki parts will result in loss of Kawasaki product warranty.**
- **Never adjust engine governor or hydraulic system relief valve.**
- **Protect electrical parts from water and steam.**
- **Never spray high pressure water or steam to the transmission oil filler port and vicinity of the axle air breather.**
- **Never disassemble electrical components such as main controller, sensors, etc.**
- **Never adjust parts of engine fuel system or hydraulic equipment.**
- **Using bad quality fuel, drainage agent, fuel additives, gasoline, kerosene or alcohol refueled or mixed with specified fuel may deteriorate performance of fuel filters and cause sliding problem at lubricated contacts in the injector. It also affects the engine parts, leading to malfunction.**
- **Use Kawasaki genuine high performance filter.**

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Troubleshooting

If any abnormality is found on the machine, immediately take action to solve it. Find out the cause of the abnormality to prevent the recurrence of malfunction.
If the cause of malfunction is unknown or for inquiry on solution item with mark "*" on the list below, consult the nearest authorized dealer.
Do NOT attempt to adjust or disassemble hydraulics, electrical and electronic parts.

Engine

Consult the nearest authorized dealer for the engine troubleshooting.

Engine Auxiliaries

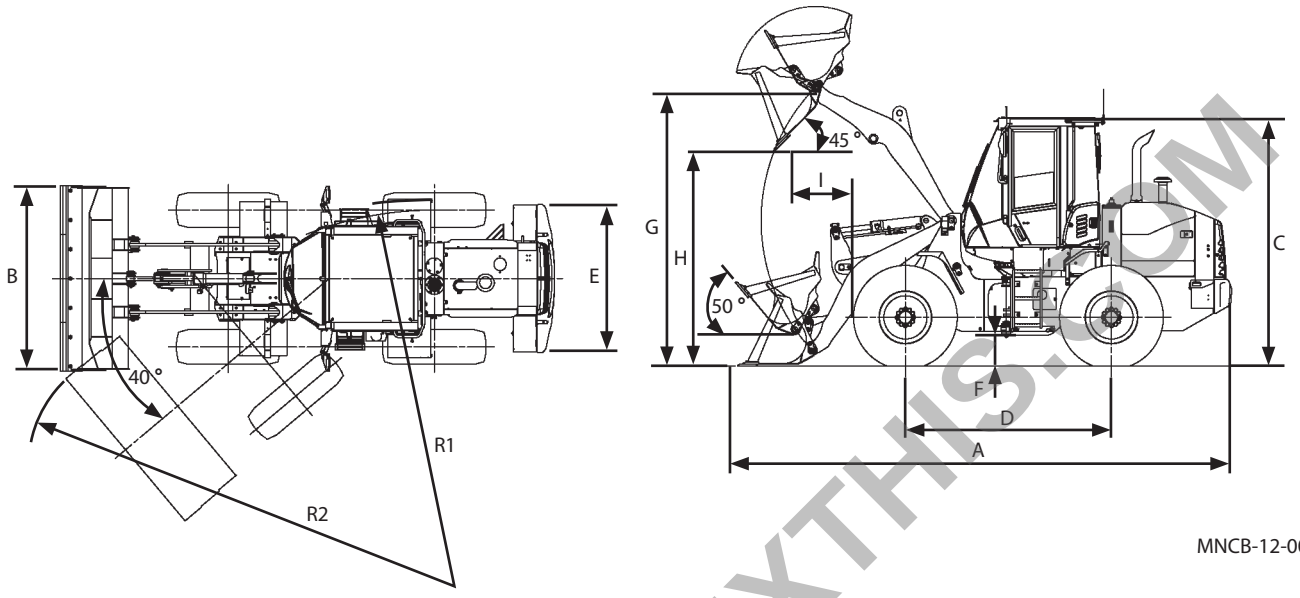
Symptom	Cause	Solution
Batteries will not charge.	Broken battery separator	Replace
	Faulty regulator	* Adjust, Replace
	Faulty ground line	* Repair
	Faulty alternator	* Repair, Replace
Batteries discharge quickly after being charged.	Shorted cable	* Repair, Replace
	Shorted battery separator	* Repair, Replace
	Increased sediment in battery	* Replace
Coolant temperature is too high.	Low coolant level	Refill
	Abnormal fan rotation	* Repair, Adjust
	Damaged rubber hose	* Replace
	Faulty thermostat	* Replace
	Faulty coolant temperature gauge	* Replace
	Faulty radiator cap seal	Replace
	Radiator fin plugged	Clean

* Consult the nearest authorized dealer.

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Specifications



MNCB-12-001

Model	-	60Z7
Bucket Capacity: heaped	m^3 (Y^3)	*1.5 (1.96)
Operating Weight	kg (lb)	8120 (1790)
Tipping Load (Straight)	kg (lb)	5310 (11707)
Engine		DEUTZ TCD 36
A: Overall Length	mm (in)	6420 (253)
B: Overall Width (Bucket)	mm (in)	2450 (96.5)
C: Overall Height	mm (in)	3210 (126.4)
D: Wheel Base	mm (in)	2725 (107.3)
E: Tread	mm (in)	1820 (71.7)
F: Ground Clearance	mm (in)	370 (14.6)
G: Bucket Hinge Height	mm (in)	3560 (140.2)
H: Dumping Clearance (45 °)	mm (in)	2705 (106.5)
I: Dumping Reach (45 °)	mm (in)	1010 (39.8)
R1: Minimum Rotation Radius	mm (in)	4690 (184.6)
R2: Minimum Rotation Radius	mm (in)	5430 (213.8)
Travel Speed Forward/Reverse	km/h (mph)	34.5 (21.4)/34.5 (21.4)
Transmission Speeds (F/R)	-	2/2
Articulation Angle (Left/Right) deg	(°)	40
Tire Size	-	17.5-25-12PR

NOTE: • ** BOC (Bolt-On Cutting Edge)*

• *These specifications are subject to change without notice.*

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Recognize Safety Information

- These are the **SAFETY ALERT SYMBOLS**.
  - When you see these symbols on your machine or in this manual, be alert to the potential for personal injury.
  - Follow recommended precautions and safe operating practices.



SA-688

Understand Signal Words

- On machine safety signs, signal words designating the degree or level of hazard - DANGER, WARNING, or CAUTION - are used with the safety alert symbol.
  - **DANGER** indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.
  - **WARNING** indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.
  - **CAUTION** indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury.
  - **DANGER or WARNING safety signs** signs are located near specific hazards. General precautions are listed on **CAUTION safety signs**.
  - Some safety signs do not use any of the designated signal words above after the safety alert symbol are occasionally used on this machine.
- To avoid confusing machine protection with personal safety messages, a signal word **IMPORTANT** indicates a situation which, if not avoided, could result in damage to the machine.
- ***NOTE*** indicates an additional explanation for an element of information.



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Avoid Power Lines

Serious injury or death can result from contact with electric lines.

Never move any part of the machine or load closer to any electric line than 3 m (10 ft) plus twice the line insulator length.



SA-455

Precautions for Operation

- If the front attachment or any part of the machine comes in contact with an overhead obstacle, both the machine and the overhead obstacle may become damaged, and personal injury may result.

  - Take care to avoid coming in contact with overhead obstacles with the bucket or arm during operation.

Precautions for Lightning

- Lightning may strike the machine.

  If lightning comes close, immediately stop the operation, and take the following action.
  - When you are around the machine or operating cab-less machine, evacuate to a safe place far away from the machine.
  - When you are in the cab, stay in the cab until lightning has passed and safety is secured. Close the cab doors and windows. Lower the bucket to the ground, and stop the engine. Put your hands on your lap to avoid contact with any metal surfaces. Never go out of the cab.

  If lightning strikes the machine or near the machine, check all of the machine safety devices for any failure after lightning has passed and safety is secured. If any trouble is found, operate the machine only after repairing it.

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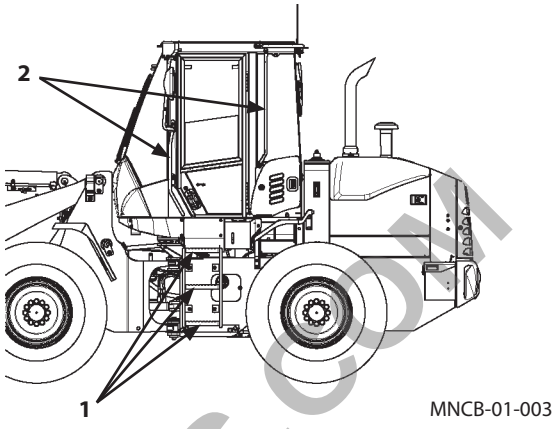
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Getting ON/OFF the Machine

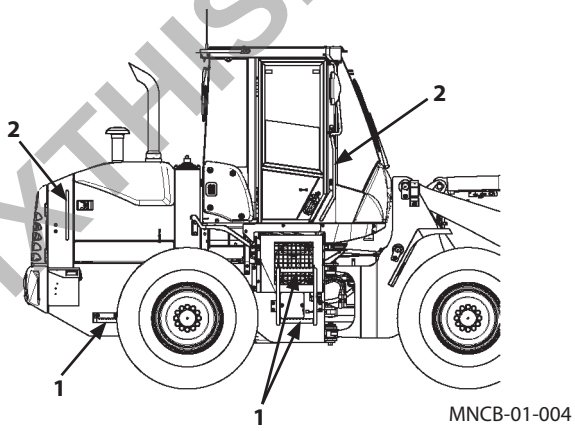
Foot holds (1) and handrails (2) are provided in and around the machine.
These are used to get on and off the cab safely as well as to do inspection and maintenance of the machine safely.
Never jump on or off the machine as it is very dangerous.

WARNING:

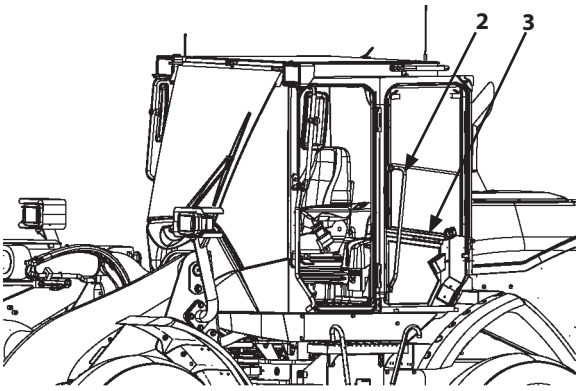
- **Never attach a wire on the foot holds (1) or handrails (2) to lift the cab or main body or while transporting the machine on a truck or trailer as it is dangerous.**
- **The door handle (3) is not a handrail. Do not hold the door handle (3) as a handrail when getting on and off the machine.**
- **Do not hold the steering wheel, forward/reverse lever or control levers when getting on and off the machine.**



MNCB-01-003



MNCB-01-004



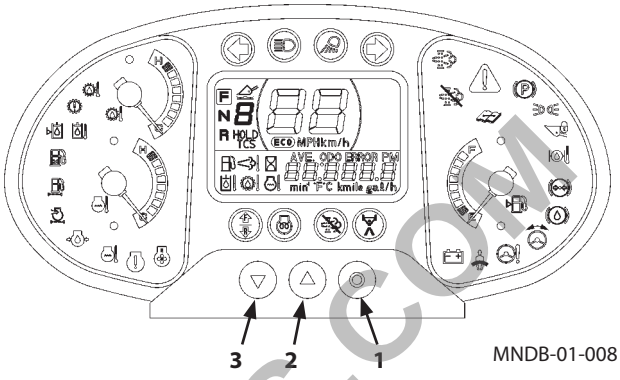
Inside of Left Door
MNDF-01-005

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Engine Oil Change Interval Hour Meter

Oil change intervals can be reset to "500.0", "250.0", or "200.0". The interval set when the machine was shipped from the factory is "500.0".

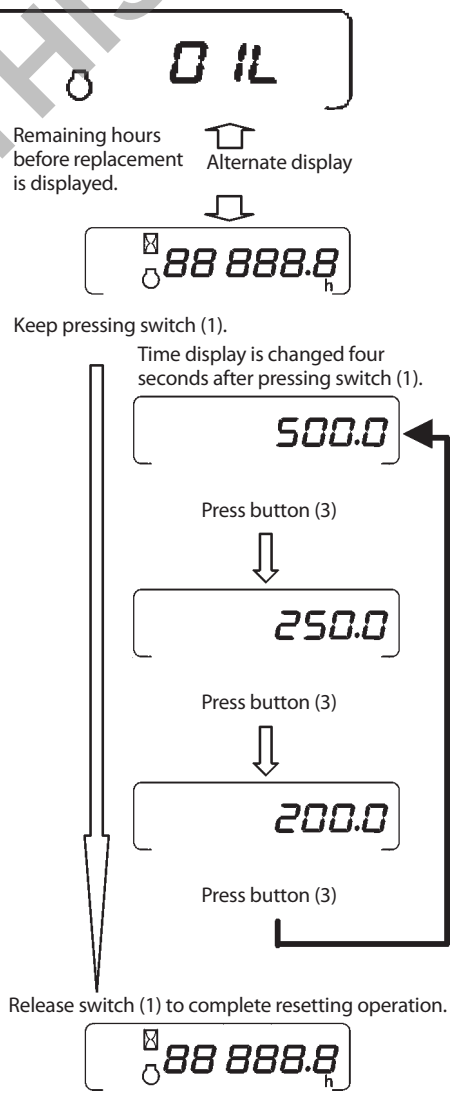


MNDB-01-008

While displaying the change interval hours, keep pressing switch (1).

NOTE: When switch (1) is released, time resetting is completed. Keep pressing switch (1) until the desired resetting time is displayed.

Time display is changed four seconds after pressing switch (1). While keeping switch (1) pressed, press switch (3). Each time switch (3) is pressed, the displayed hours will change in the order of "500.0 → 250.0 → 200.0". When the desired time is displayed, release switch (1) to complete resetting operation.



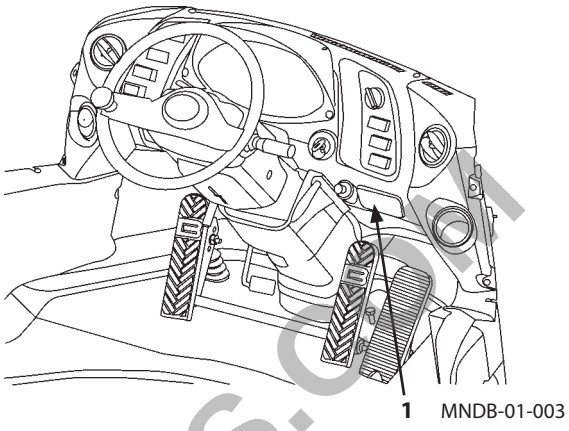
MNDB-01-048

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Ash Tray

WARNING: Take precautions against fires.
Use ash tray (1) when smoking in the cab.



MNDB-01-003

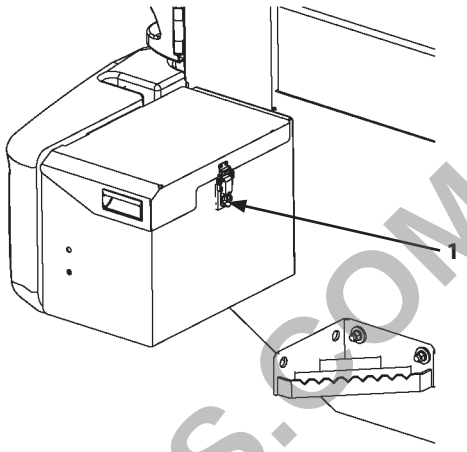
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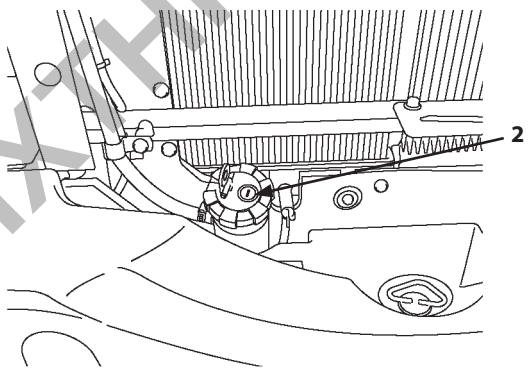
Vandal-Resistant Devices

A lock key can be installed to battery cover (1).

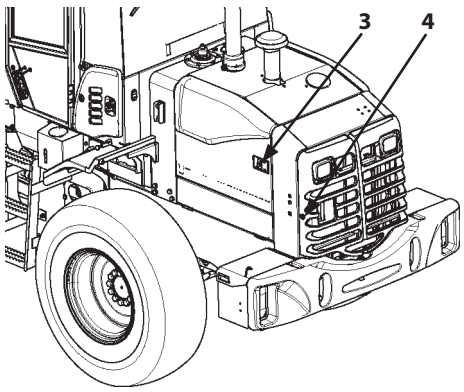
Fuel tank cap (2), side covers (3), rear grille (4), and air conditioner fresh air filter (5) can be locked with the keys.



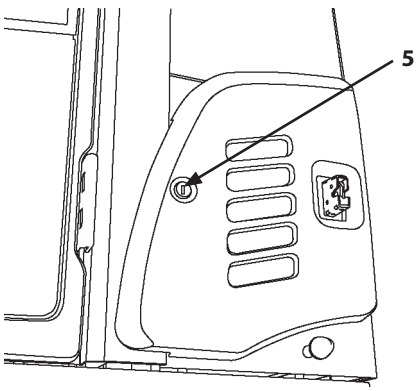
M4FJ-01-030



M4FJ-01-024



MNCB-01-019



MNEC-01-055

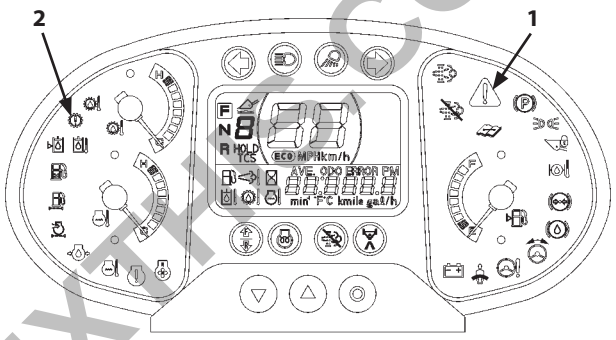
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Precautions for Driving Speeds

CAUTION: Descend the machine on a steep slope with the shift switch in the slow drive gear range while depressing the brake pedal (normal brake) if necessary as well as applying engine brake sufficiently. Traveling for a long time without reducing the speed will create the causes of various machine troubles.

When the machine travels faster than the speed set at each speed gear range, service indicator (1) and the HST warning indicator (2) flash, the buzzer sounds. When the indicator flashes and the buzzer sounds, release the accelerator pedal in order to reduce the speed.



MNDB-01-008

Speed Control Function

This controls the speed in order to prevent from overrunning (faster than the warning setting speed).

Travel Speed	Warning Setting Speed	Service Indicator (1) HST Warning Indicator (2)	Buzzer
Low Speed (L)	Approx. 15km/h (9.3 mph)	Flashing	Intermittent
High Speed (H)	Approx. 38km/h (23.6 mph)	↑	↑

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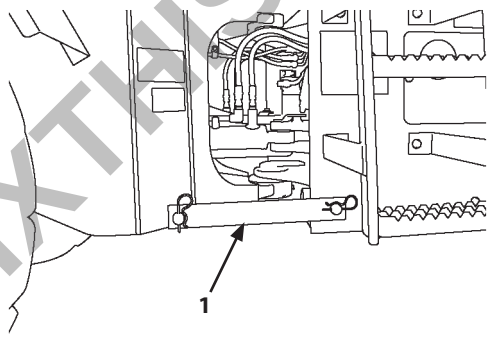
Loading / Unloading on Trailer

WARNING:

- **Never steer while driving up or down a ramp as it is extremely dangerous and may cause the machine to turnover. Never attempt to steer the machine on a ramp. If the travel direction must be changed on a slope, move back the machine to the flat ground. Then, after changing the travel direction, begin to drive again.**
- **Select low speed (L).**

Loading

1. Load the machine so that the centerline of the machine aligns with the centerline of the trailer flatbed.
2. Slowly drive the machine on the ramp.
3. Lower the bucket onto the trailer deck.
4. Stop the engine.
5. Operate the control lever several strokes to relieve pressure in the cylinders.
6. Press LOCK (🔒) side of the control lever lock switch.
7. Remove the key from the key switch.
8. Securely close the windows and cab door to protect the cab from rain. Place a cover over the exhaust outlet.
9. Install the articulation lock bar (1) to prevent the machine from articulating.



M4FJ-01-018

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Recommended Axle Oil

Kind of Oil	Gear Oil
Application	Axle & Wet Disc Brake
	Change Interval: 2000 hours
Manufacturer	-20 to 45 °C (-4 to 113 °F)
Hitachi	High Gear Oil
ExxonMobil	Mobilube HD 80W-90
	MOBILTRANS HD-50
Valvoline	Drive Train Transmission Oil SAE 50

NOTE:

- *The machine shipped from factory is filled with gear oil with gray background.*
- *If other oil listed above is used, you may hear abnormal noise, which may lead to damage on the machine.*
- *Top treatment with an Anti-Chatter additive may be necessary to prevent or eliminate service brake application noise.*
- *For extremely low ambient temperatures, lower viscosity or synthetic oils may be required.*

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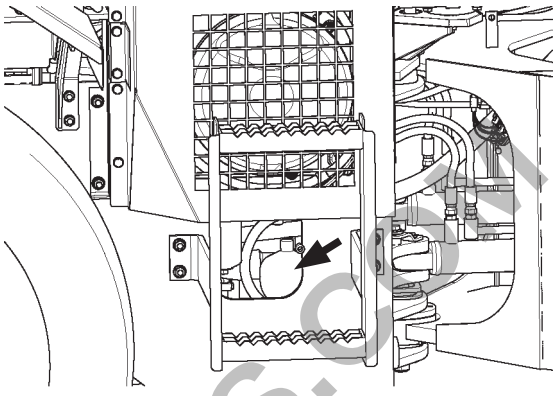
7 **Check Pilot Circuit Accumulator Function, Gas Leakage, Looseness, and Damage (Option)**

--- every 2000 hours

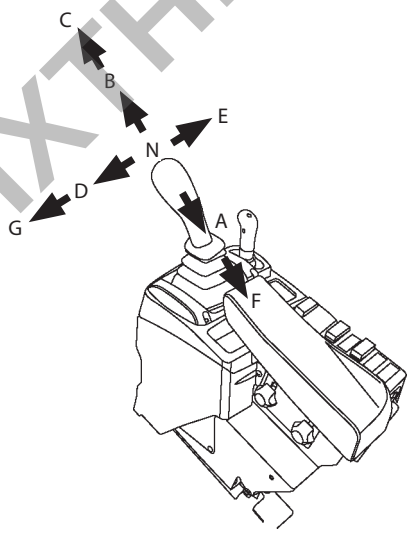
WARNING:

- **Allow only qualified personnel to handle the accumulator.**
- **High-pressure nitrogen gas is enclosed in the accumulator. Caution is required to prevent fires from occurring.**
- **Never strike the accumulator. Keep the accumulator away from sparks and/or flames.**
- **Do not directly heat the accumulator. Do not weld the accumulator housing.**
- **Be sure to release pressure before starting to work on the pipe lines.**

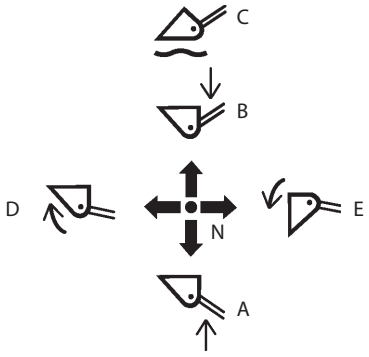
1. Park the machine following the same procedures as described on page 7-7 for preparation of inspection/ maintenance work.
2. Raise the lift arm at the maximum height, and then set the lift arm control lever in the Neutral (N) position.
3. Turn the key switch OFF to stop the engine.
4. Turn the key switch ON but do NOT start the engine.
5. Confirm the safety around the machine.
6. Place the control lever to FLOAT position (C) and lower the bucket 1 m (40 in) off the ground within 2 minutes after stopping the engine.
7. Place the control lever to the LOWER position (B) and lower the bucket on the ground.
8. Ensure the lift arm does not stop halfway. If the lift arm stops halfway, the accumulator function may be deteriorated. Consult your authorized dealer for check and repair.



MNCB-07-007



MNDF-01-021



M4GB-01-074

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5 **Check Electrical Harnesses and Fuses**
--- every 50 hours

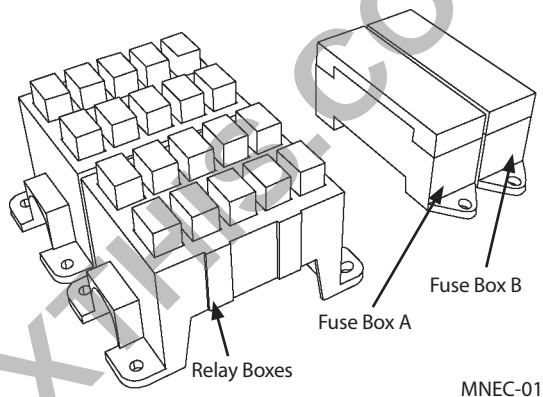
CAUTION: If dirt or dust is adhered on the wirings or relays, it may cause fire on the machine.

Check the electrical harness and terminals of the batteries, starter motor, and alternator for loose connection and/or short circuit (broken shield). Remove dirt or dust if necessary.
If any burned mark or an abnormal smell is noticed on a harness, consult your nearest authorized dealer.

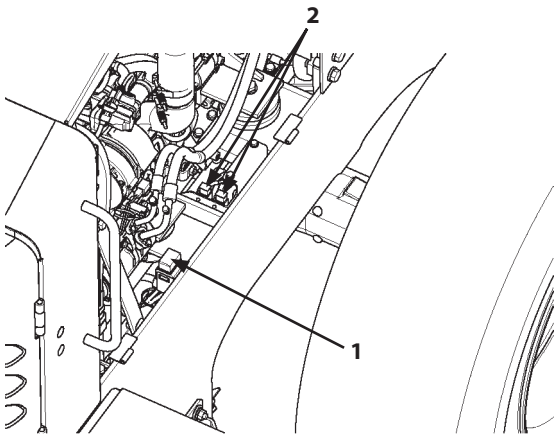
Replace Fuse:

1. If any electrical equipment becomes inoperable, first check the fuses in the fuse boxes (A, B) located in the right console (behind the front control lever) in the operator's station.
2. One each spare fuse for respective fuse capacities is provided in the fuse boxes (A, B).
3. Finally, check slow blow fuses (1) (2) located on the left side of the base machine.

   1- 100A x2
   2- 65A x2



MNEC-01-047



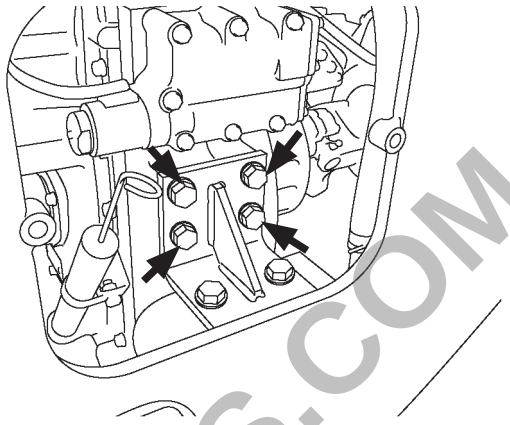
MNCB-07-015

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7. Transmission mounting bolt: Cushion rubber

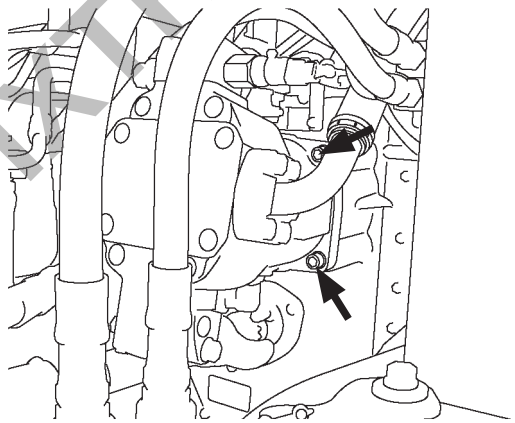
Bolt dia. mm (in)	16 (0.6)
Quantity	8
Wrench size	24 mm (0.94 in)
Tightening torque	176~225 N·m (18~23 kgf·m, 130~166 lbf·ft)



M4FJ-07-018

8. HST motor mounting bolt

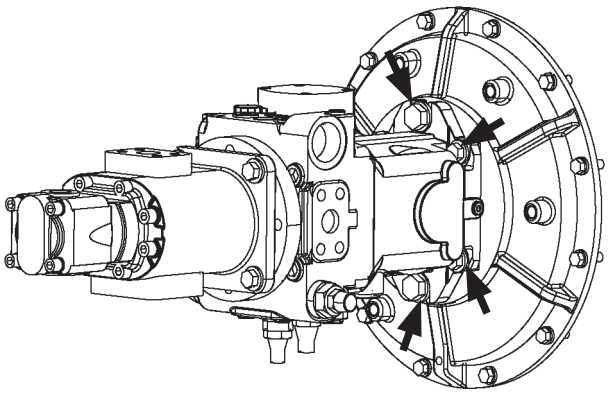
Bolt dia. mm (in)	16 (0.6)
Quantity	4
Wrench size	-
Tightening torque	210 N·m (21 kgf·m, 155 lbf·ft)



M4FJ-07-019

9. HST pump mounting bolt

Bolt dia. mm (in)	16 (0.6)	12 (0.5)
Quantity	2	4
Wrench size	24 mm (0.94 in)	19 mm (0.75 in)
Tightening torque	210 N·m (21 kgf·m, 155 lbf·ft)	90 N·m (9.1 kgf·m, 66 lbf·ft)



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