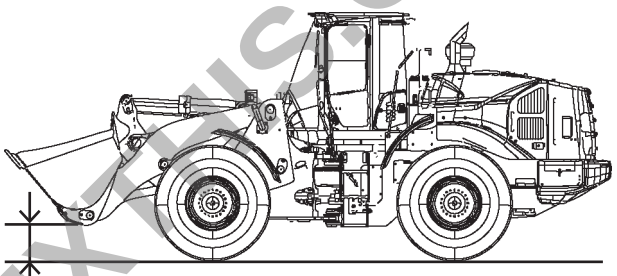
Driving the Machine

Correct operation will result in extending the service life of each part and component as well as saving fuel and oil. Always be sure to safely and efficiently operate the machine while paying attention to the following points.

IMPORTANT: The engine must be started and ready for driving correctly by referring to the previous section "OPERATING THE ENGINE".

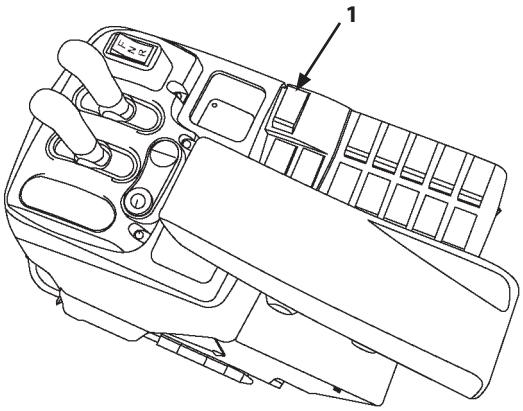
Precautions for starting to move

1. Perform a thorough walk-around inspection. Conduct correct start-up procedure.
2. After raising the lift arm, set the lift arms and bucket in the operating position.
3. Before driving on public roads, set the machine to the driving position as illustrated to the right. Be sure to press LOCK (🔒) side of control lever lock switch (1) so that the linkage will not move even if the control levers are accidentally moved.



MNEC-04-001

Position
A: 300 mm (1 ft)



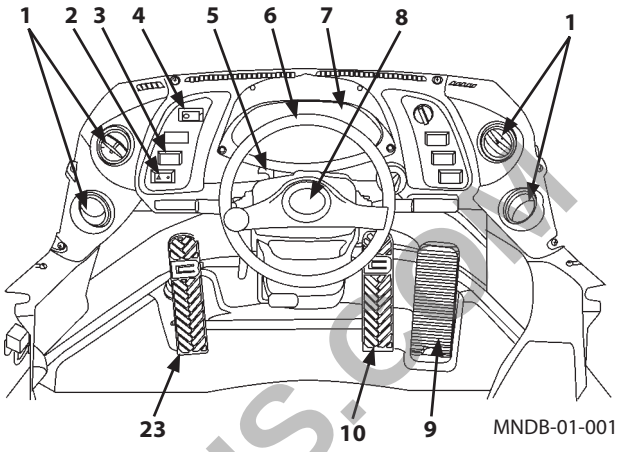
MNEC-07-001

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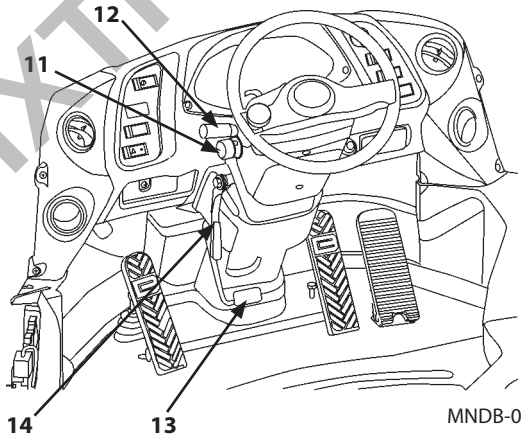
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Front Console

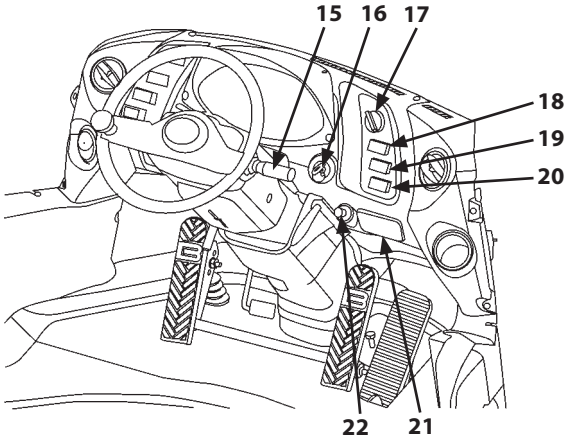
1- Air Conditioner Front Vent
2- Hazard Switch
3- Work Light Switch
4- Parking Brake Switch
5- Neutral Lever Lock (Forward/Reverse Lever)
6- Steering Wheel
7- Monitor Panel
8- Horn Switch
9- Accelerator Pedal
10- Brake Pedal
11- Front/Rear Window Wiper Switch
12- Forward/Reverse Lever/ Shift Switch
13- Steering Column Tilt Pedal
14- Tilt, Telescopic Lever
15- Turn Signal Lever/ Light Switch/ High-Low Beam Switch
16- Key Switch
17- Travel Mode Selector
18- Auto Idling Stop Switch
19- Declutch Position Switch
20- Shift Change Delay Mode Switch
21- Ash Tray
22- Cigar Lighter
23- Brake/Declutch Pedal



MNDB-01-001



MNDB-01-002



MNDB-01-003

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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 for repairs.

IMPORTANT:

- **Use only recommended fuel and lubricants.**
- **Be sure to use only genuine KCM parts. Failure to do so may result in serious injury or death and/or machine breakdown.**
- **Failure to use recommended fuel, lubricants, and genuine KCM parts will result in loss of KCM product warranty.**
- **Never adjust engine governor.**

  Never adjust 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.**

  Never adjust 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 surface problems between moving parts at lubricated contacts in the injector. It also affects the engine and leading to malfunction.**
- **Use KCM genuine high performance filter.**

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13 Tightening and Retightening Torque of Nuts and Bolts

--- every 2000 hours (50 hours at first time only)

Tighten or retighten nuts and bolts used on this machine in accordance with the torque values shown in the following table. Check nuts and bolts for looseness and missing daily before and after operation. If any loose or missing nuts and/or bolts are found , retighten or supply replacement parts. Check tightness after the first 50 hours then every 2000 hours. The nuts and bolts other than those shown in the table below shall be tightened in accordance with the torque values shown in the table on page 7-107.

No.	Locations	Bolt Diameter	Quantity	Wrench Size	Torque N·m (kgf·m, lbf·ft)
1	Front axle mounting bolt	24	8	36	785±150 (80±15, 580±110)
2	Rear axle support mounting bolt	24 (Nut)	8	36	890±170 (90±17, 655±125)
3	Wheel rim mounting bolt	24	60	36	890 (91, 655)
4	Propeller shaft mounting bolt *	12	20	17	143 (15, 105)
5	Propeller shaft support bearing mounting bolt	20	2	30	206 (21, 152)
6	Transmission mounting bolt: Bracket *	20	4	30	401 (41, 296)
7	Transmission mounting bolt: Cushion rubber	18	2	27	315 (32, 230)
8	Engine mounting bolt: Bracket *	12	10	19	110 (11, 81.2)
9	Engine mounting bolt: Cushion rubber	18	2	27	315 (32, 230)
10	Muffler mounting bolt	10	8	17	50 (5, 37)
11	Counterweight mounting bolt *	30	4	46	1510 (154, 1115)
12	Top center pin upper flange lock	16	7	24	205 (21, 152)
13	Bottom center pin lock	16	1	24	210 (21, 155)
14	Loader front pin lock	16	9	24	210 (21, 155)
		12	4	19	90 (9, 66)
15	Steering cylinder pin lock	12	4	19	90 (9, 66)

* Apply "LOCTITE® 262" to the threads.

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Troubleshooting

If any machine trouble has occurred, immediately repair it. Make certain the cause of the trouble and take necessary measures to prevent the reoccurrence of the same trouble. In case troubleshooting is difficult, or measures marked with * must be taken, consult the nearest authorized dealer. Never attempt to adjust, disassemble, or repair the hydraulic and/or electrical/electronic parts/components.

1. Engine

Consult the nearest authorized dealer for the engine troubleshooting.

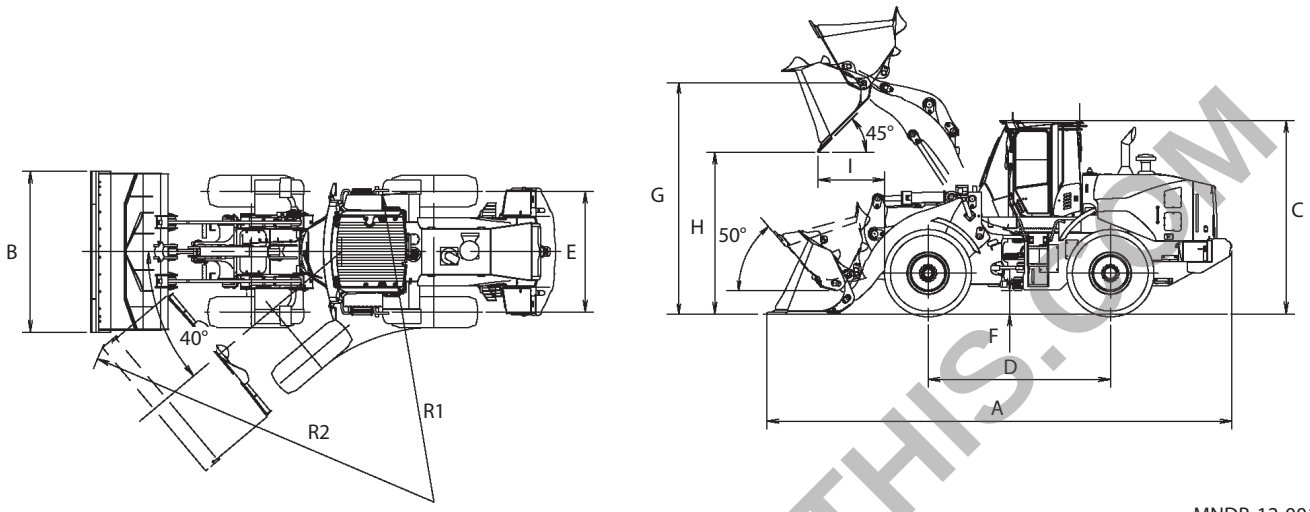
2. Engine Auxiliaries

Problem	Cause	Solution
Batteries will not charge.	Broken battery separator	Replace
	Faulty regulator	* Adjust and replace
	Faulty ground line	* Repair
	Faulty alternator	* Repair and replace
Batteries discharge quickly after being charged.	Shorted cable	* Repair and replace
	Shorted battery separator	* Repair and replace
	Increased sediment in battery	* Clean
Coolant temperature is too high.	Low coolant level	Add
	Abnormal fan operation	Adjust or repair
	Damaged rubber hose	* Replace
	Faulty thermostat	* Replace
	Faulty coolant temperature gauge	* Replace
	Cooling system passages dirty	Flush cooling system
	Radiator core or oil cooler core plugged	Clean radiator and oil cooler
	Radiator screen plugged	Clean screen

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Specifications



MNDB-12-001

NOTE: This illustration includes optional equipment.

(Optional equipment differs depending on the destination of the machine.)

Model	-	70Z7
Bucket Capacity: heaped	m^3	3.0
Operating Weight	kg	14180
Tipping Load (Full Turn)	kg	4480
Engine		CUMMINS QSB6.7
A: Overall Length	mm	7810
B: Overall Width (Bucket)	mm	2690
C: Overall Height	mm	3280
D: Wheel Base	mm	3100
E: Tread	mm	2050
F: Ground Clearance	mm	395
G: Bucket Hinge Height	mm	3920
H: Dumping Clearance (45 °)	mm	2760
I: Dumping Reach (45 °)	mm	1100
R1: Minimum Rotation Radius	mm	5300
R2: Minimum Rotation Radius	mm	6200
Travel Speed Forward/Reverse	km/h	38.5/26.5
Transmission Speeds (F/R)	-	5/3
Articulation Angle (Left/Right) deg	(°)	40
Tire Size	-	20.5-25-12PR (L2)

NOTE: • *LSC, Bolt-On Edges*

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

• *The value in [ ] shows the specification when the machine is equipped with additional counterweight.*

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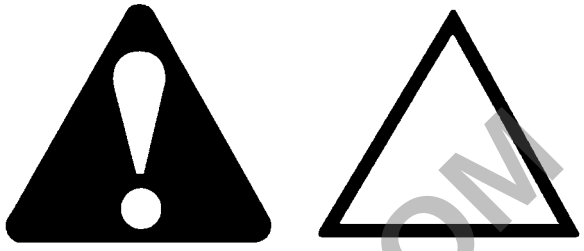
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Recognize Safety Information

- 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-2644

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** 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 has been 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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Prevent Battery Explosions

- Battery gas can explode.
  - Keep sparks, lighted matches, and flame away from the top of battery.
  - Never check battery charge by placing a metal object across the posts. Use a voltmeter or hydrometer.
  - Do not charge a frozen battery; it may explode. Warm the battery to 16 °C (60 °F) first.
  - Do not continue to use or charge the battery when electrolyte level is lower than specified. Explosion of the battery may result.
  - Loose terminals may produce sparks. Securely tighten all terminals.
  - Connect terminals to the correct electrical poles. Failure to do so may cause damage to the electrical parts or fire.
- Battery electrolyte is poisonous. If the battery should explode, battery electrolyte may be splashed into eyes, possibly resulting in blindness.
  - Be sure to wear eye protection when checking electrolyte specific gravity.



SA-032

Service Air Conditioning System Safely

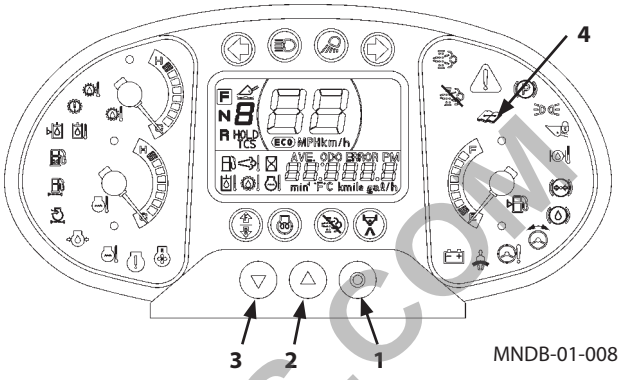
- If spilled onto skin, refrigerant may cause a cold contact burn.
  - Refer to the instructions described on the container for proper use when handling the refrigerant.
  - Use a recovery and recycling system to avoid leaking refrigerant into the atmosphere.
  - Never touch the refrigerant.



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MNDB-01-008

- Transmission Oil Hour Meter

Screen I and time screen J indicating the remaining hours up to transmission oil change are alternately displayed.
When the remaining hour reading becomes 0 hour, maintenance indicator (4) will light.
While displaying screen J, when monitor display selector (2) is pressed, the screen is returned to time screen B. When monitor display selector (3) is pressed, screen K of "Transmission oil filter hour meter" is displayed.
Refer to page 1-30 for the resetting of oil change and filter replacement intervals.

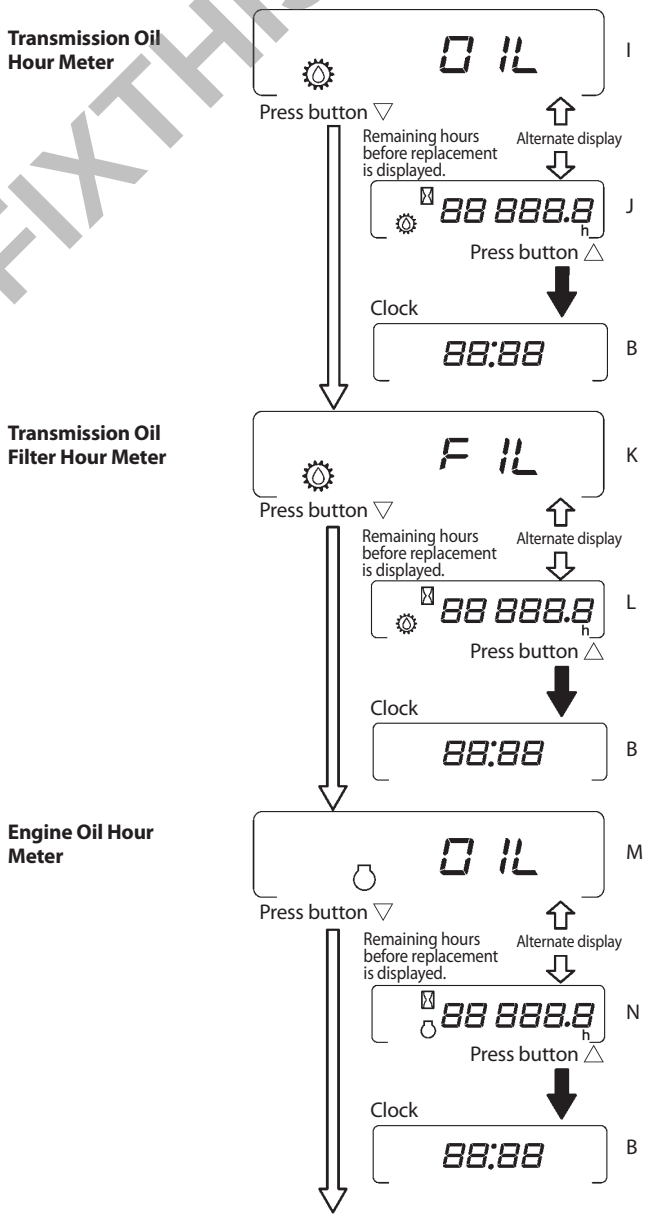
- Transmission Oil Filter Hour Meter

Screen K and time screen L indicating the remaining hours up to transmission oil filter replacement are alternately displayed.
When the remaining hour reading becomes 0 hour, maintenance indicator (4) will light.
While displaying screen L, when monitor display selector (2) is pressed, the screen is returned to time screen B. When monitor display selector (3) is pressed, screen M of "Engine oil hour meter" is displayed.
Refer to page 1-30 for the resetting of oil change and filter replacement intervals.

- Engine Oil Hour Meter

Screen M and time screen N indicating the remaining hours up to engine oil change are alternately displayed
When the remaining hour reading becomes 0 hour, maintenance indicator (4) will light.
While displaying screen N, when monitor display selector (2) is pressed, the screen is returned to time screen B. When monitor display selector (3) is pressed, screen N of "Engine oil filter hour meter" is displayed.
Refer to page 1-30 for the resetting of oil change and filter replacement intervals.

: When monitor display selector (△)(2) is pressed once:
: When monitor display selector (▽)(3) is pressed once:



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Ride Control Switch (Option)

WARNING:

- **To ensure safety, operate the ride control switch only after parking the machine with the bucket lowered to the ground.**
- **When operating the machine with the front attachment in the float position (scooping, grading, or snow removal), always turn the ride control switch OFF. Failure to do so may allow the front attachment to unexpectedly move up or down when the ride control system is activated.**
- **When operating the machine with the ride control ON, control the machine speed so as not to cause sudden impacts to the machine. Ride control accumulator will carry high pressure causing gas leakage.**

The ride control system dampens the vertical movement of the front attachment during operation so that comfortable machine ride quality is obtained. As stable drive operation is achieved, bucket load spill can be lessened.

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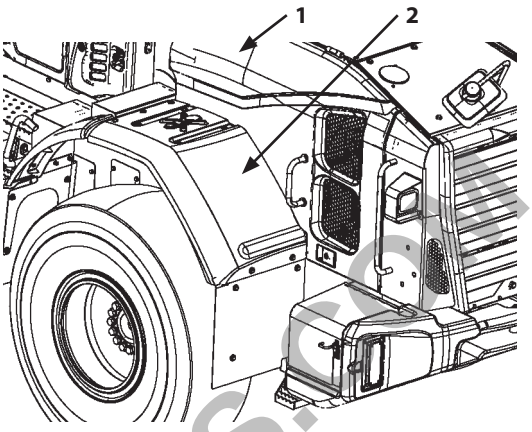
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Inspection/Maintenance Side Access Cover

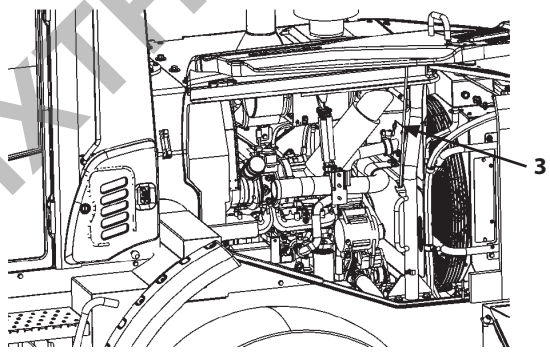
CAUTION:

- **Always close side covers (1) when moving and/or operating machine.**
- **Do not keep the side cover open on a slope or when a strong wind is blowing. Failure to do so may be dangerous because the side cover may unexpectedly move or close.**
- **Take care not to pinch fingers when opening/closing side cover (1).**
- **As the side cover flips up by itself, care should be taken not to be hit with the cover when opening it.**
- **Before checking around the engine, be sure to lock the cover in position with locking rod (3) provided inside the side cover.**
- **Never attempt to stand on fender (2) if side cover (1) is provided with fender (2).**
  If the gas struts become weak, replace them immediately.

NOTE: Lock the side cover in position with locking rod (3).



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MNDB-01-016

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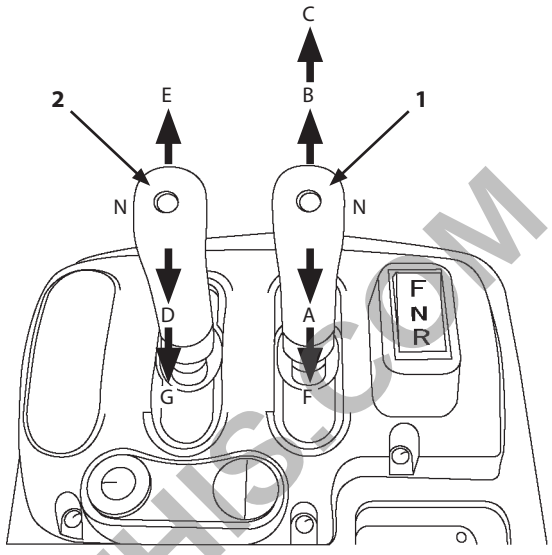
Loading Control Levers

Fingertip Control Type

The fingertrip control lever is used to operate the lift arm and/or bucket.

Lift Arm Control Lever (1)

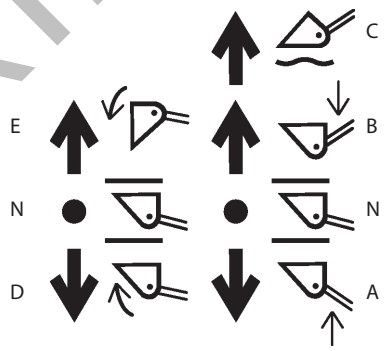
Lever Position	Lift Arm Operation
C	Float (Detent): The lift arm free falls and can be moved as loads are applied. The lever will stay in this position.
B	Lift Arm Lower
N	Hold: The lift arm is stopped and held in that position.
A	Lift Arm Raise
F	Detent: The lift arm is held in the raise position with the detent.



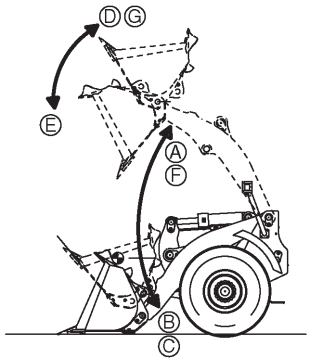
MNEC-03-003

Bucket Control Lever (2)

Lever Position	Bucket Operation
E	Bucket Dump: The bucket is tilted forward to dump the bucket.
N	Hold: The bucket is stopped and held in that position.
D	Bucket Tilt (or Roll Back): The bucket is tilted back; (also this is the transportation position.)
G	Detent: When the bucket control lever is moved from the bucket dump position to the bucket tilt position, the bucket control lever is held in this position with the detent.



M4GB-01-072



M4GB-01-073

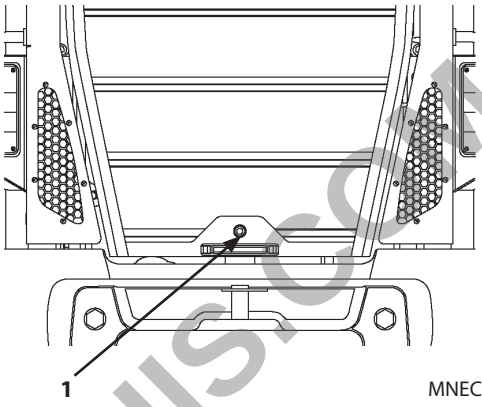
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Rear Grille

CAUTION:

- **Open or close rear grille (2) only after stopping the engine. Failure to do so may create a very dangerous situation as entanglement with the cooling fan may result.**
- **Before running the machine, always check that rear grille (2) is not open.**
- **Rear grille (2) may spring open. Take care not to be hit by the rear grille.**



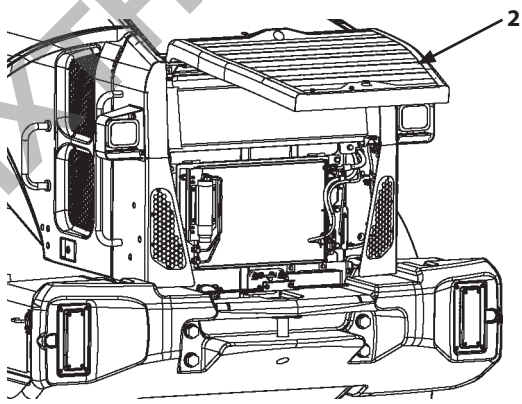
MNEC-01-510

Opening the rear grille

Push open/close button (1) laterally to open rear grille (2) upward. This provides access to the area under the grille allowing the fuel tank to be refilled and/or the cooling fan to be cleaned.

Closing the rear grille

While holding rear grille (2), slowly close rear grille (2) downward until a "click" sound is heard.



MNDB-01-017

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12 **Check Hoses and Lines**

--- every 10 hours (daily)

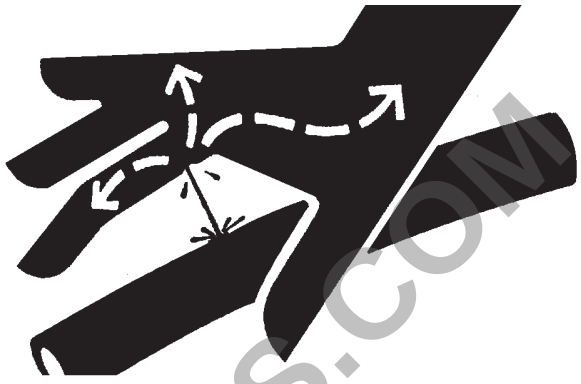
WARNING: High pressure fluid can penetrate the skin causing serious injury.

To avoid this hazard, search for leaks with a piece of cardboard.

Protect hands and body from high-pressure fluids.

If an accident occurs, immediately see a doctor familiar with this type of injury.

Any fluid injected into the skin must be surgically removed within a few hours or serious infection may result.



SA-031

WARNING: Hydraulic oil and lubricant leaks can lead to fire that may result in serious injury.

To avoid this hazard :

- **Park the machine on a solid, level surface.**

  Lower the bucket to the ground.

  Stop the engine. Remove key from the key switch. Push the control lever lock switch to the lock ( ) position.

- **Check for missing or loose clamps, kinked hoses, lines or hoses that rub against each other, damaged oil cooler, and loose oil cooler flange bolts, for leaks.**

  Check hoses, lines and oil cooler at the check points indicated below for leaks and other damage that may result in future leaks.

  If abnormalities are found, repair them, as shown in Tables 1-2.

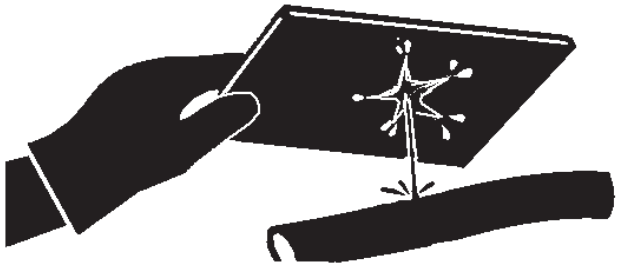
- **Tighten, repair or replace any missing, loose or damaged clamps, hoses, lines, oil cooler, and loose oil cooler flange bolts.**

  Do not bend or strike high-pressure lines.

  Never install bent or damaged hoses or lines.



SA-292



SA-044

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2 Check Air Conditioner
--- every 6 months

Check the air conditioner switch panel, air conditioner unit, and condenser mounting areas for any troubles, and check hoses for any damage.

NOTE: When the season to use the air conditioner comes close, check the air conditioner to get it ready to use at all times. When not required to use the air conditioner for a long period of time, operate the air conditioner in the cooling mode once a week to prevent lack of lubrication.

CAUTION: Avoid steam cleaning

Do not clean the compressor and receiver tank with steam. The high temperature will cause the refrigerant gas pressure to increase, possibly causing the hoses to break. This could injure personnel.

3 Check Air Conditioner Piping
--- every 6 months

IMPORTANT: If any leakage is found, repair or replace the corresponding pipes. Tighten the joint bolts to specification.

Check the piping for deformation and/or damage. If a pipe joint is contaminated with oil, refrigerant leakage may be suspected. Check for leakage using a refrigerant gas leak detector.

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