

FOREWORD

This manual contains a number of instructions and safety recommendations regarding driving, handling, lubrication, maintenance, inspection and adjustment of the wheel loader.

The manual is to promote safety maintenance and enhance machine performance.

Keep this manual handy and have all personnel read it periodically.

If you sell the machine, be sure to give this manual to the new owners.

This machine complies with EC directive "2006/42/EC".

1. **Read** and **understand** this manual before operating the machine.

This operator's manual may contain attachments and optional equipment that are not available in your area. Please consult your local Hyundai distributor for those items you require.

Improper operation and maintenance of this machine can be hazardous and could result in serious injury or death.

Some actions involved in operation and maintenance of the machine can cause a serious accident, if they are not done in a manner described in this manual.

The procedures and precautions given in this manual apply only to intended uses of the machine.

If you use your machine for any unintended uses that are not specifically prohibited, you must be sure that it is safe for you and others. In no event should you or others engage in prohibited uses of actions as described in this manual.

2. **Inspect** the jobsite and **follow** the safety recommendations in the **safety hints** section before operating the machine.

3. Use **genuine Hyundai spare parts** for the replacement of parts.

We expressly point out that Hyundai will not accept any responsibility for defects resulting from non-genuine parts or non workmanlike repair.

In such cases Hyundai cannot assume liability for any damage.

Continuing improvements in the design of this machine can lead to changes in detail which may not be reflected in this manual. Consult Hyundai or your Hyundai distributor for the latest available information for your machine or for questions regarding information in this manual.

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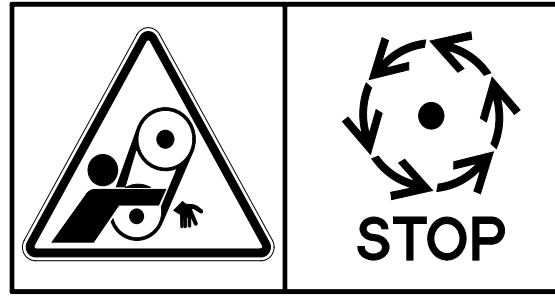
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19) SHEARING-ENGINE DOOR(Item 29)

This warning label is positioned on the left side of the engine side cover.

- ⚠ **Don't open the engine door during the engine's running.**

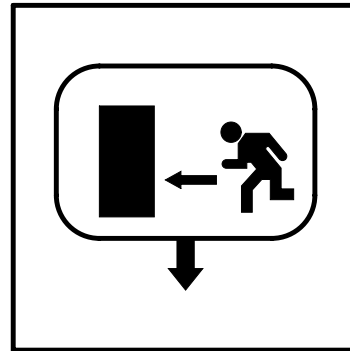


21070FW15

20) ALTERNATE EXIT(Item 30)

This warning label is positioned on the right side window of the cab.

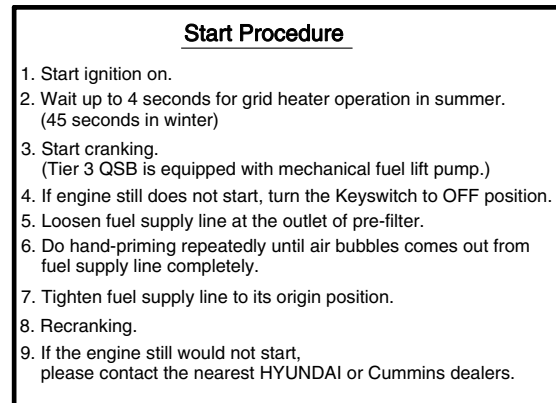
- ※ **The right door serves as an alternate exit.**



77070FW12

21) START PROCEDURE(Item 39)

This warning label is positioned on the right side window of the cab.

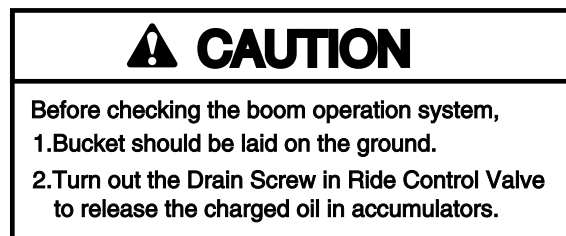


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22) RIDE CONTROL(Item 34)

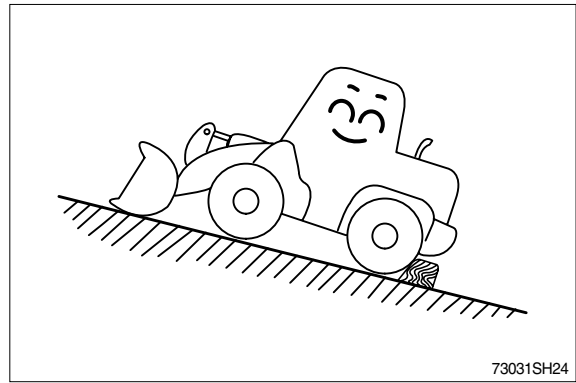
This warning label is positioned on the front frame.

- ※ **Before checking the boom operation system,**
 1. Bucket should be laid on the ground.
 2. Turn out the drain screw in ride control valve to release the charged oil in accumulators.

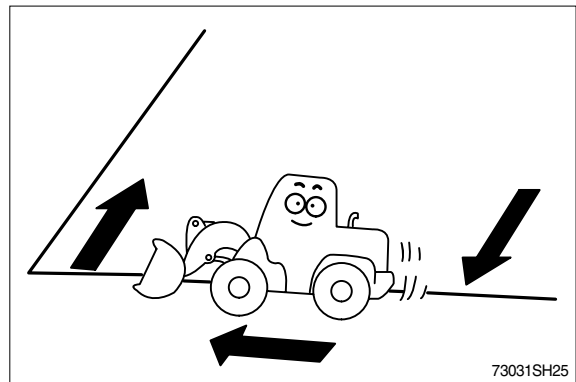


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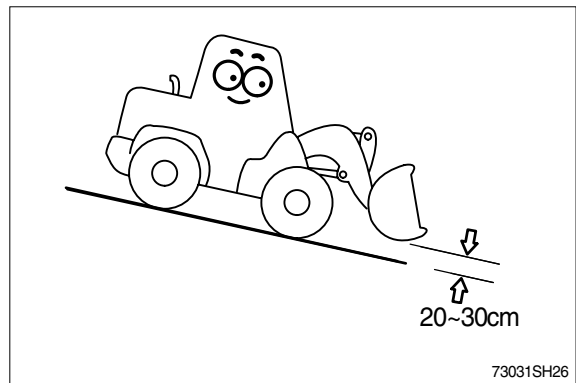
Avoid parking and stopping on a slope.
Lower the bucket to the ground and block the tire when parking.



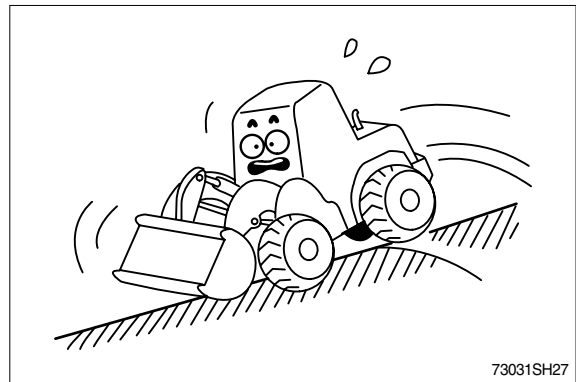
Avoid traveling in a cross direction on a slope as it can cause the danger of rolling over and sliding.



Traveling on the slope is dangerous.
Be sure to operate slowly when driving down a slope and maintain the bucket at a height of 20~30cm(1ft) above the ground so that it can be used as brake in an emergency.

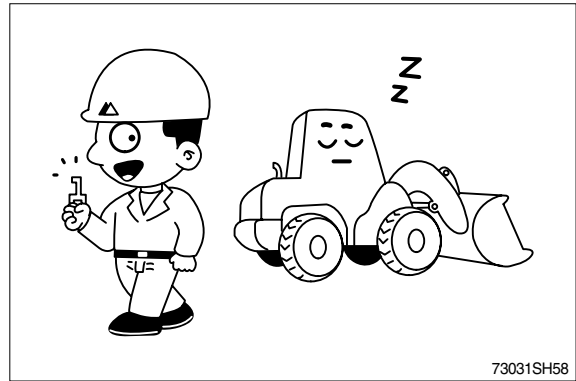


Steering of the machine while traveling on a slope is dangerous.
When an inevitable turning of direction is required, turn on the flat and solid ground.

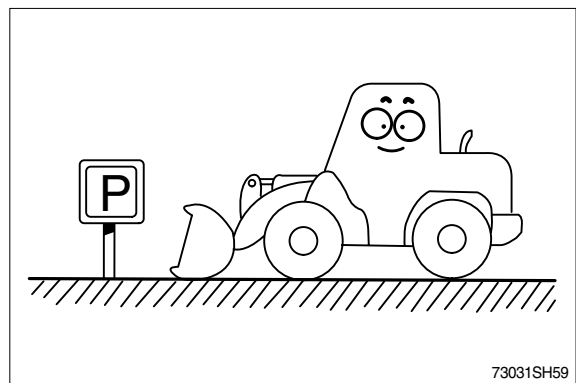


4. PARKING

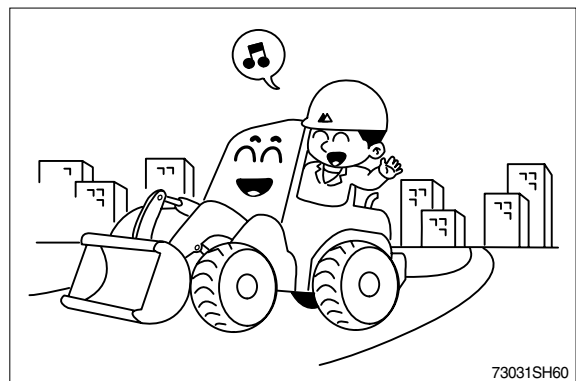
When leaving the machine lower the bucket to the ground completely and put the safety lever at parking position then remove the key. Lock the cab door.



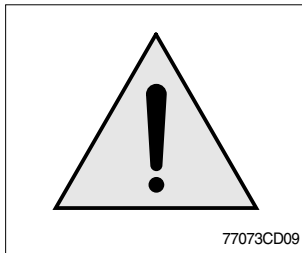
Park the machine in the flat and safe place.



Hope you can work easily and safely observing safety rules.
For safe operation, observe all safety rules.

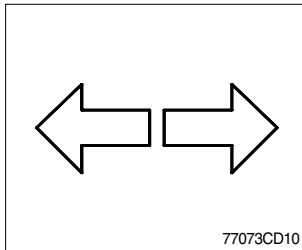


7) WARNING LAMP



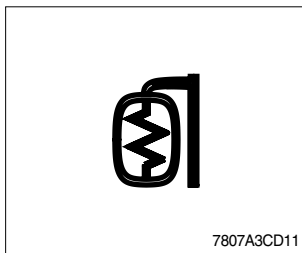
- (1) When all warning lamp or fault codes are being displayed, this warning lamp will flash.
- (2) When this warning lamp flashes, machine must be checked or serviced as soon as possible.

8) DIRECTION PILOT LAMP



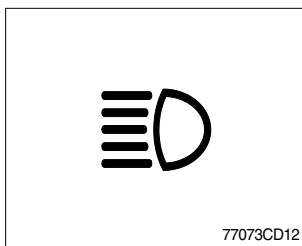
- (1) This lamp flashes when the signal indicator lever is moved.

9) MIRROR DEFROST PILOT LAMP (Option)



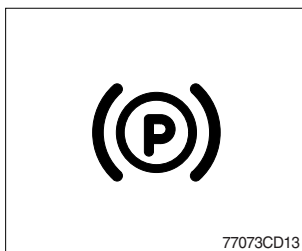
- (1) This lamp comes ON when mirror defrost switch is pressed.

10) HIGH BEAM PILOT LAMP



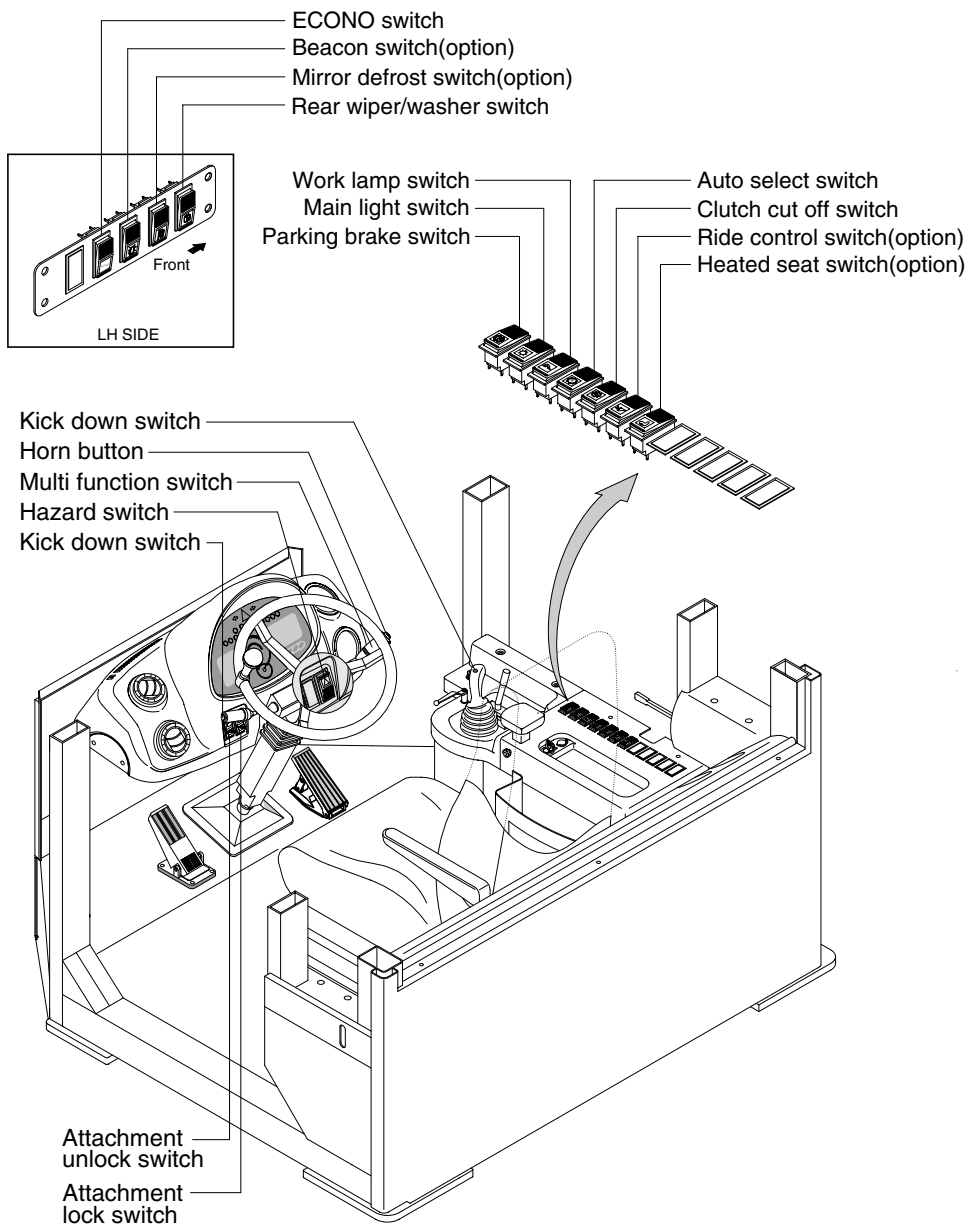
- (1) This lamp works when the illuminating direction is upward.
- (2) This lamp comes ON when the dimmer switch is operated, e.g., when passing another vehicle.

11) PARKING BRAKE WARNING LAMP



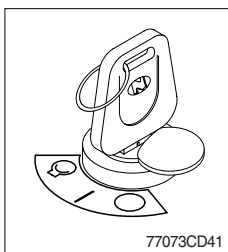
- (1) When the parking brake is actuated, the lamp lights ON.
※ Check the lamp is OFF before driving.

3. SWITCHES



7407A3CD03

1) STARTING SWITCH



(1) There are three positions, OFF, ON and START.

- ○ (OFF) : None of electrical circuits activate.
- | (ON) : All the systems of machine operate.
- Ⓚ (START) : Use when starting the engine.

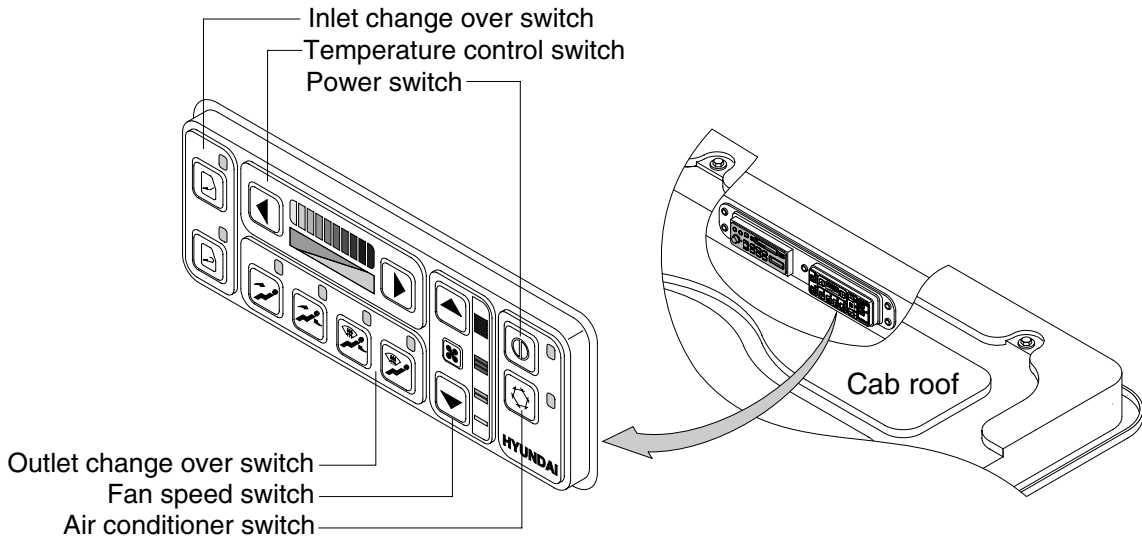
Release key immediately after starting.

※ If you turn ON the starting switch in cold weather, the fuel warmer is automatically operated to heat the fuel by sensing the coolant temperature. Start the engine in 1~2 minutes after turning ON the starting switch. More time may take according to ambient temperature.

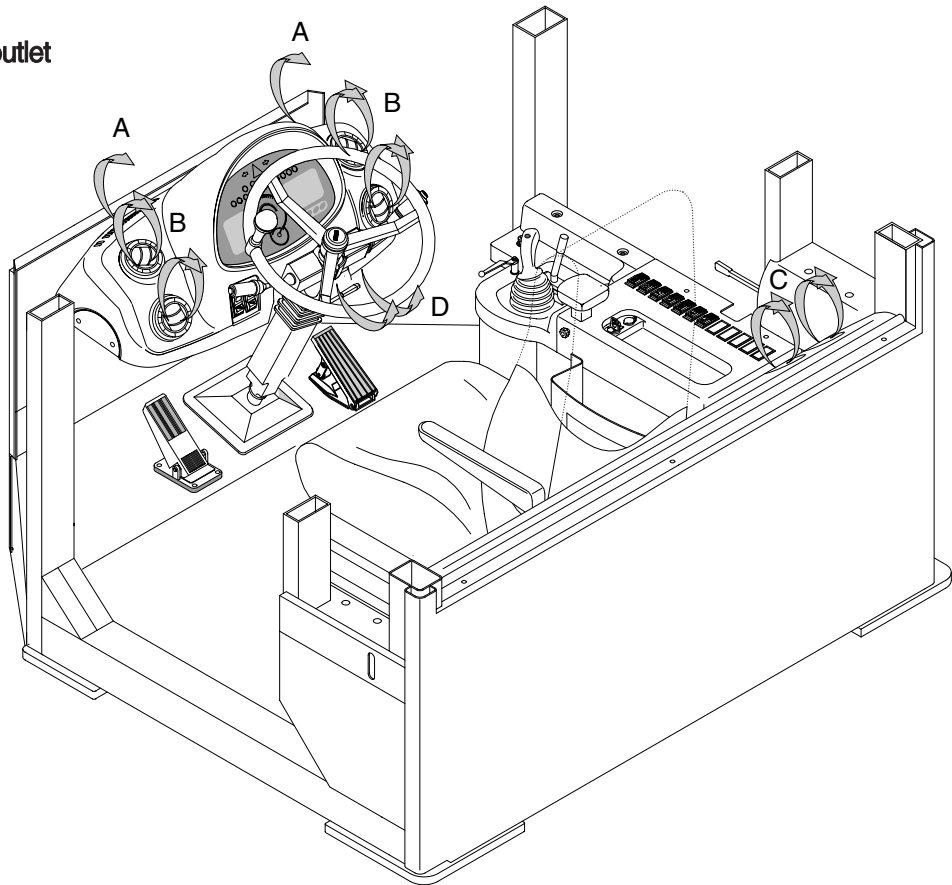
※ Key must be in the ON position with engine running maintain electrical and hydraulic function and prevent serious machine damage.

5. AIR CONDITIONER AND HEATER

Air conditioner and heater are equipped for pleasant operation against outside temperature and defrost on window glass.



• Location of air outlet



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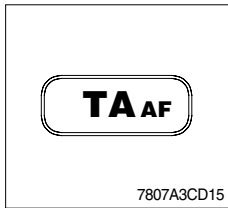
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■ RADIO DATA SYSTEM(RDS) ON FM



More and more stations broadcasts RDS informations in order to offer you many advantages including:

(1) Program service name(PS)


Allows the radio to display the name of the station instead of its frequency.

(2) Automatic returning(AF)

The set remains tuned to the current station by continually searching the best alternative frequency for best reception.

You can switch AF off.

- Activate/Deactivate AF

This set continuously search for other alternative frequencies for the tuned radio station and automatically selects the best frequency for reception. Long press  for more than 2 second to activate/deactivate AF.

(3) Alarm messages(PHY ALARM)


This set automatically receives emergency messages made by the broadcaster.

- During the messages the display shows 'ALARM' and the station-name alternately.

(4) Traffic announcements(TA)

You can activate the TA modes to give priority so as to hear traffic announcements related to these subjects(even if you play a cassettes/CD or mute the set).

- Activate/Deactivate TA


- Short press BAND to select an FM band.
- Press  to activate/deactivate TA.

- If you activate TA mode

- You will hear the traffic announcements when broadcast by station(even if you play a cassette/CD or mute the set).
- If the tuned station does not enable the reception of traffic announcements, the display shows 'NO TA'. The radio automatically searches and appropriate station.

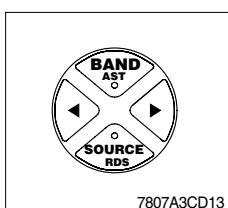
- Interrupting traffic announcement mode

If you do not wish to continue listening to a particular traffic announcement

- Short press  key to interrupt traffic announcement without switching off the mode
- The set will return to the previous operating mode.

※ You can switch off RDS features if not required.

- Long press RDS key to switch off RDS.
- All RDS related features e.g., TA, etc...will be deactivated when RDS is switch off.

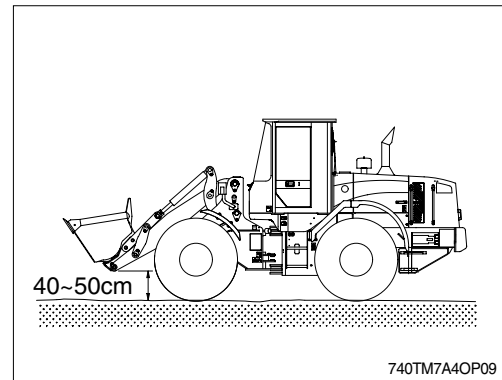


6. TRAVELING OF THE MACHINE

1) BASIC OPERATION

(1) Traveling posture

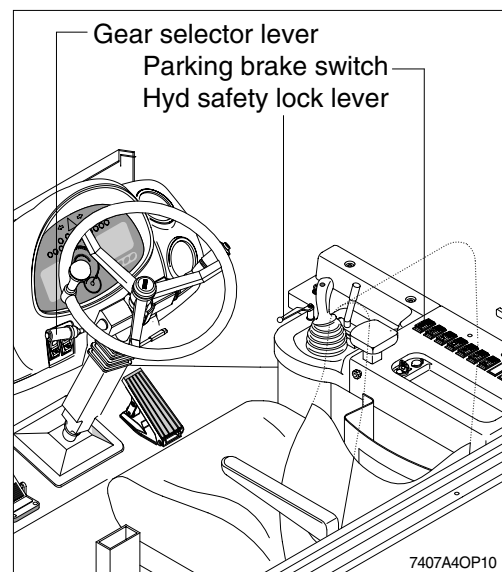
Lift the boom so that the bucket is placed 40~50cm above the ground.



(2) Traveling operation

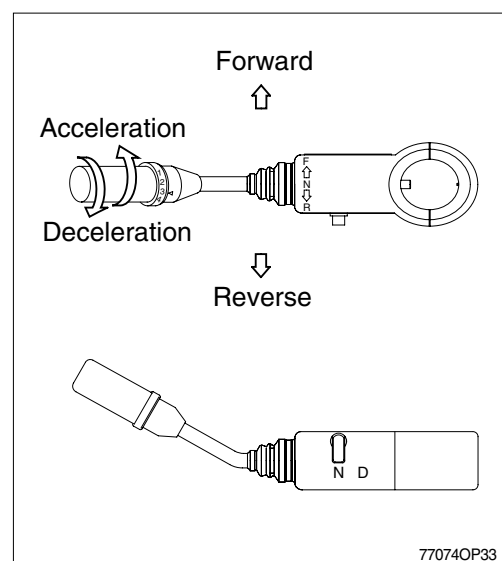
When warm-up operation is completed after the engine is started, move the machine according to the following procedure.

- ① Release the hydraulic safety lock lever.
- ② Release the parking brake.
- ③ Put the gear selector lever in the 1st stage of forward or backward direction and press gently the accelerator pedal to move the machine.



(3) Changing direction and speed

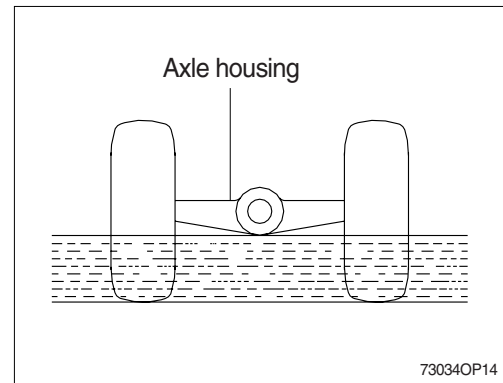
- ① The gear selector is designed for the mounting on the left side of the steering column.
- ② The positions(speeds) 1 to 4 are selected by a rotary motion, the driving direction Forward(F)-Neutral(N)-Reverse(R) by tilting the gear selector lever.
- ③ A neutral lock is installed as protection against inadvertent drive off.
 - **Position N** - Gear selector lever blocked in this position
 - **Position D** - Driving
- ④ When doing digging or dumping work, run the machine in the 1st or 2nd speed.



7) PRECAUTIONS DURING OPERATION

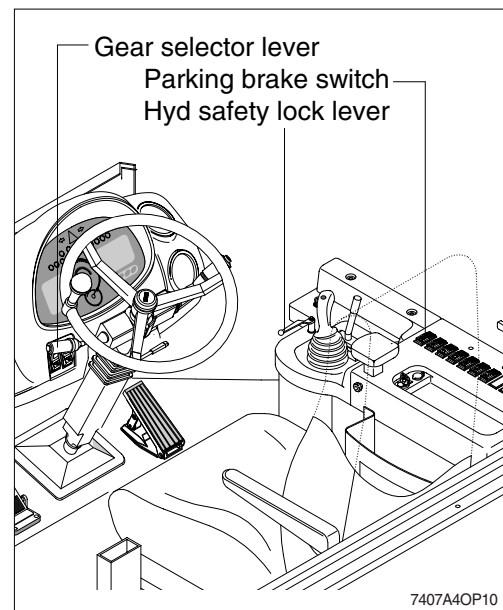
(1) Permissible water level

- ① Do not work in water or damp ground deeper than the permissible depth (Up to lower part of the axle housing).
- ② After the work is completed, grease parts which has been immersed in water.



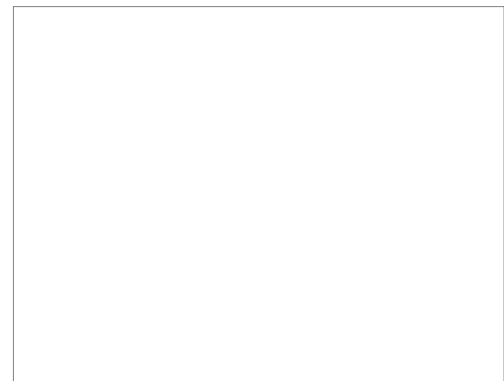
(2) When the brake does not operate

- ① If the machine does not stop even though the brake pedal is applied, use the parking brake.
- ※ **After using the parking brake as an emergency brake, ask Hyundai dealer to check complete brake system.**



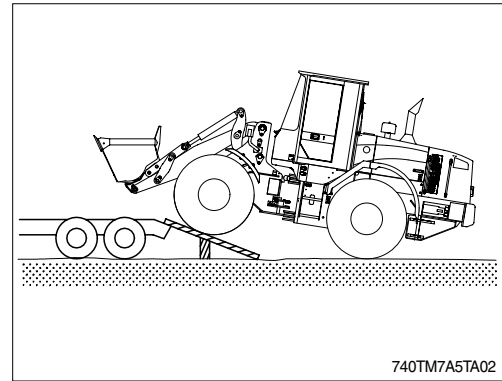
(3) Precautions when driving on a slope

- ① When turn on a slope, lower the work equipment to lower its center of gravity. Avoid turn on a slope if possible.

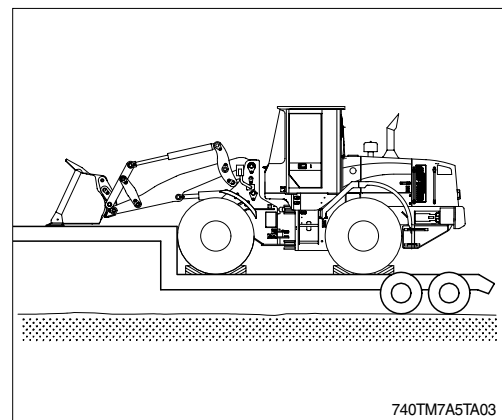


3. LOADING THE MACHINE

- 1) Load and unload the machine on a flat ground.
- 2) Use the gangplank with sufficient length, width, thickness and gradient.
- 3) Move slowly and carefully when the machine is on the gangplank.
Do not change the direction of the machine while it is on the gangplank.

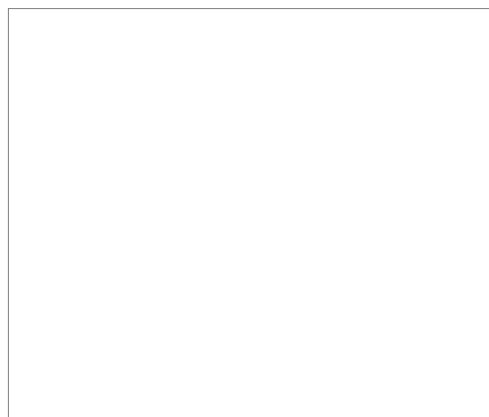


- 4) Do the following after loading the machine to the trailer.
 - (1) Lower the working equipment gently after the location is determined.
 - ※ Place rectangular timber under the bucket cylinder to prevent the damage of it during transportation.
 - ▲ Do not operate any other device when loading.
 - ▲ Balance the load.



5) PRECAUTION WHEN INSTALLING HYDRAULIC HOSES OR PIPES

- (1) Be particularly careful that the joint of hose, pipe and functioning item are not damaged.
Avoid contamination.
- (2) Assemble after cleaning the hose, pipe and joint of functioning item.
- (3) Use genuine parts.
- (4) Do not assemble the hose in the condition of twisted or sharp radius.
- (5) Keep the specified tighten torque.

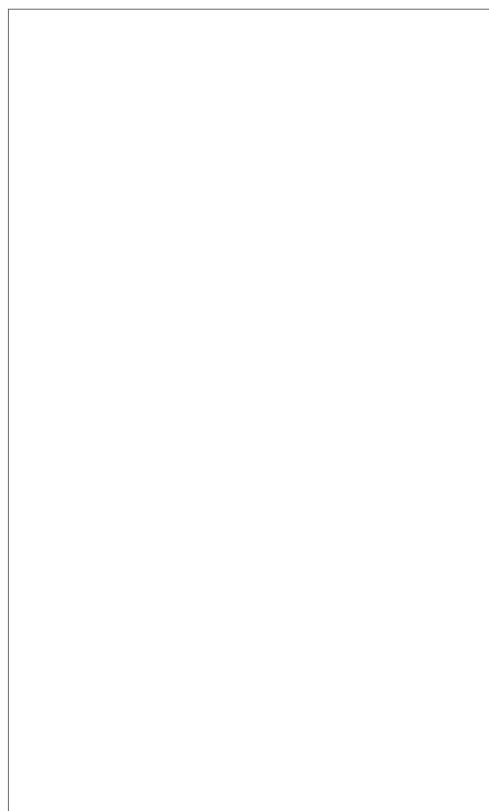


6) PERIODICAL REPLACEMENT OF SAFETY PARTS

- (1) These are the parts which the operator can not judge the remained lifetime of them by visual inspection.
- (2) Repair or replace if an abnormality of these parts is found even before the recommended replacement interval.

Periodical replacement of safety parts	Interval
Fuel hose(Engine-tank)	Every 2 years
Hose of steering system	
Packing, seal and O-ring of steering cylinder	
Hose of brake system	
Piston and packing of master cylinder	

- ※ **1. Replace the O-ring and gasket at the same time when replace the hose.**
- ※ **2. Replace clamp at the same time if the hose clamp is cracked when checking and replacing the hose.**



Service interval	Item No.	Description	Service action	Oil symbol	Capacity / (U.S. gal)	Service points No.
10 Hours or daily	1	Hydraulic oil level	Check, Add	HO	105(27.7)	1
	2	Engine oil level	Check, Add	EO	16(4.2)	1
	4	Radiator coolant level	Check, Add	C	35(9.2)	1
	5	Belt tension & damage	Check, Adjust			2
	19	Fuel pre-filter	Clean			1
50 Hours or weekly	6	Attachment pins	Lubricate	PGL		24
	7	Tire(Air)	Check, Add			4
	8	Drive shaft(Front, center)	Lubricate	PGL		2
	9	Steering cylinder pin	Lubricate	PGL		4
	10	Rear axle pivot	Lubricate	PGL		2
250 Hours	11	Wheel nuts	Check, Tight			48
	12	Fuel tank(Water, sediment)	Drain		228(60.2)	1
	13	Brake line filter(Strainer)	Check, Clean			1
	14	Battery(Voltage)	Check, Add			2
	16	Hydraulic tank air breather element	Replace			1
	26	air conditioner and heater outer filter	Check, Clean			1
500 Hours	2	Engine oil	Change	EO	16(4.2)	1
	3	Engine oil filter	Replace			1
	18	Fuel filter element	Replace			1
	19	Fuel pre-filter	Replace			1
	20	Radiator, oil cooler, charge air cooler	Clean			3
	27	Air cleaner element(Primary)	Clean			1
1000 Hours	15	Hydraulic oil return filter	Replace			1
	17	Pilot line filter element	Replace			1
	21	Center pivot pin	Lubricate	PGL		2
	22	Transmission oil	Change	EO	26(6.7)	1
	23	Transmission oil filter	Replace			1
	24	Axle oil(Front)	Change	GO	21.2(5.6)	3
	25	Axle oil(Rear)	Change	GO	21.2(5.6)	3
2000 Hours	1	Hydraulic oil	Change	HO	105(27.7)	1
	4	Radiator coolant	Change	C	35(9.2)	1
When required	26	Air conditioner and heater outer filter	Replace			1
		Air conditioner and heater inner filter	Clean, Replace			1
	27	Air cleaner element(Safety and primary)	Clean, Replace			2

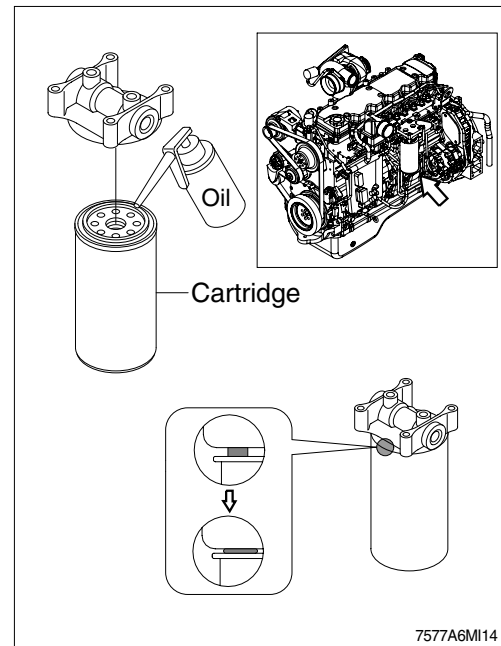
※ **Oil symbol**

Refer the recommended lubricants for specification.

- EO : Engine oil
- HO : Hydraulic oil
- GO : Gear oil
- PGL : Grease
- C : Coolant

12) REPLACEMENT OF FUEL FILTER

- (1) Clean around the filter head, remove the filter and clean the gasket surface.
 - Wrench size : 90~95mm(3.5~3.8in)
- (2) Replace the O-ring.
- (3) Apply engine oil on the gasket of filter when mounting, and tighten 3/4 to 1 turn more after the gasket touches the filter head.
- (4) Relieve the air after mounting.
 - ※ **Do not pre-fill an on-engine fuel filter with fuel. The system must be primed after the fuel filter is installed. Pre filling the fuel filter can result in debris entering the fuel system and damaging fuel system components.**
 - ※ **Check for fuel leakage after the engine starts.**
 - ※ **If air is in the fuel system, the engine will not start. Start engine after bleeding the air according to the method of bleeding air.**

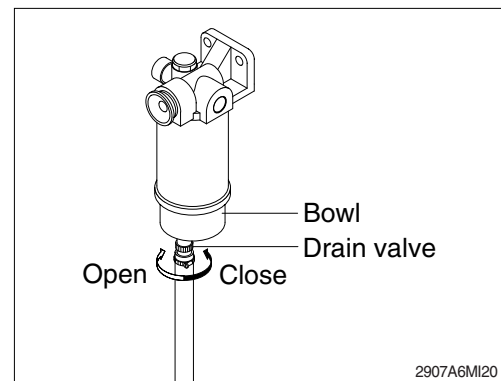


13) PREFILTER

- ※ **Inspect or drain the collection bowl of water daily and replace the element every 500hours.**

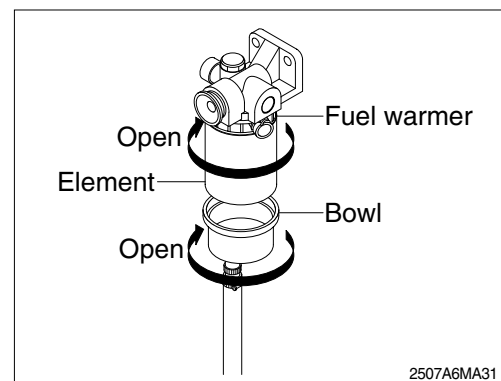
(1) Drain water

- ① Open bowl drain valve to evacuate water.
- ② Close drain valve.



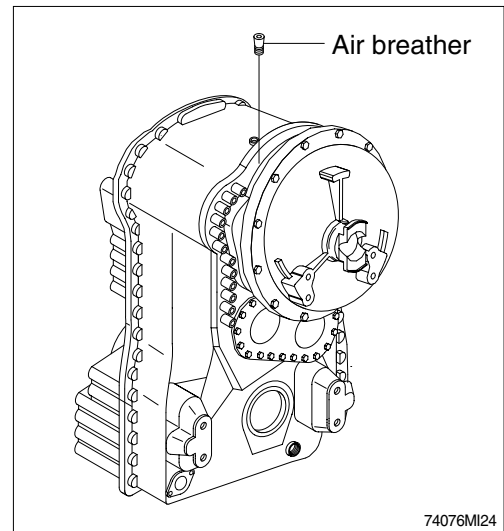
(2) Replace element

- ① Drain the unit of fuel. Follow "Drain water" instructions above.
- ② Remove element, fuel warmer and bowl from filter head.
- ※ **The bowl is reusable, do not damage or discard.**
- ③ Separate element from bowl. Clean bowl and seal gland.



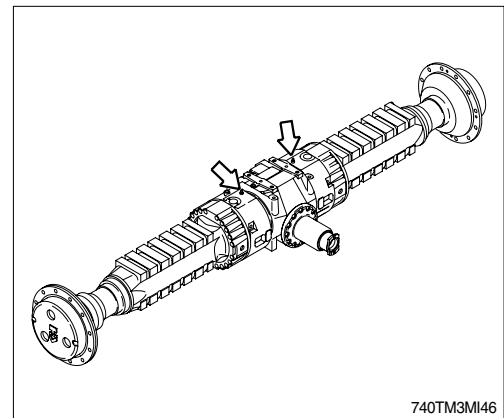
29) CLEANING TRANSMISSION AIR BREATHER

- (1) Remove dust or debris around the air breather.
- (2) Remove the air breather and wash it with cleaning oil.

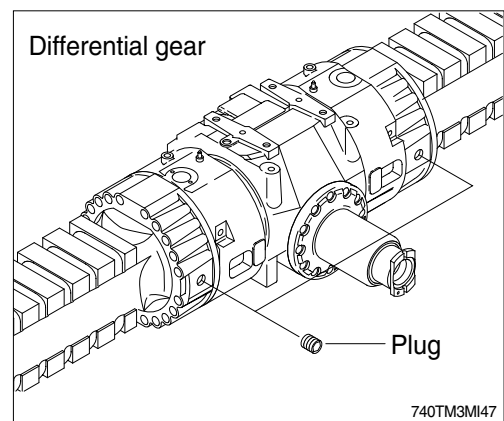


30) CHECK AND SUPPLYING AXLE OIL

- (1) Move the machine to flat ground.
- (2) Open the axle air breather to relieve internal air pressure.



- (3) Remove the plug and check the oil amount.
If the oil level is at the hole of the plug, it is normal.



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