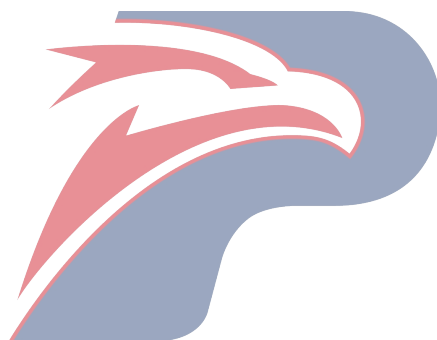
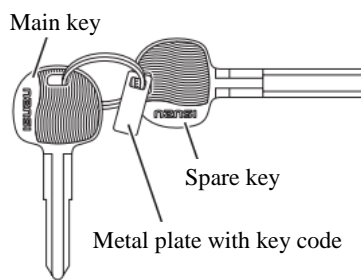


• Key	3-2
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**POWERSTAR**

## Key



Both sides of the key are identical, so you can insert the key in the ignition switch without worrying about which way you insert it.

The key code is indicated on a separate metal plate in order to prevent it from being acquired by an unauthorized person.

## Where Is the Key Used?

Where	For what
Ignition switch	Starting and stopping the engine
Front doors	Locking and unlocking the doors



### ADVICE

- Wipe off the key to remove any dirt or dust, etc. before using it.

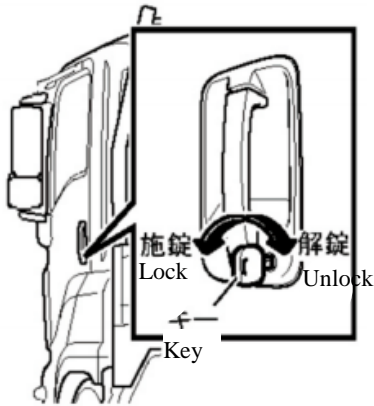


### NOTE

- To prevent theft, store the metal plate with key code in a safe place other than the vehicle.
- Should you lose the key, please give the key number to your Isuzu Supplier. The Isuzu Supplier will be able to duplicate your key.
- If you resell the vehicle, be sure to hand over the plate with key code to the new owner together with the vehicle.

## Locking and Unlocking the Front Doors

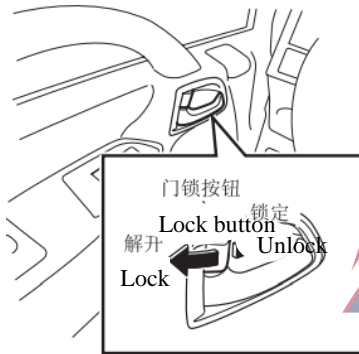
### Locking and Unlocking the Door from Outside Using the Key



Firmly insert the key.

Turn the key toward the rear of the vehicle to unlock the door and turn it toward the front of the vehicle to lock it.

"Lock" and "unlock" the door at the side of driver seat, including the door at the side of passenger seat (central lock).



### Locking and Unlocking the Door from Inside

Push the lock button forward to lock the door; pull the lock button backward to unlock it.

When operating the door lock button of driver seat, "Lock" and "unlock" the door at the side of passenger seat (central lock).

# POWERSTAR



### Locking the Door from Outside without Using the Key

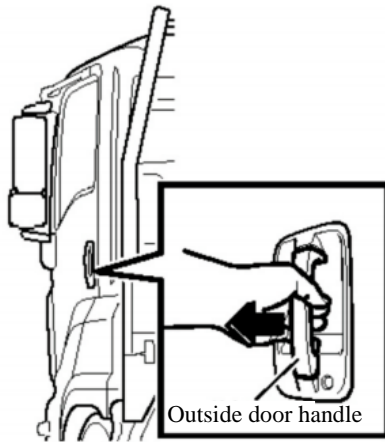
First, push the lock button on the inside door handle forward and then close the door while keeping the outside door handle raised.



#### ADVICE

- Before closing the door, be sure to check that you have the key with you.

## Opening and Closing the Front Doors

**Opening and Closing the Door from Outside**

To open the door, pull the outside door handle.

To close the door, push the outside door handle.

One window regulator

**Opening and Closing the Door from Inside**

To open the door, pull the inside door handle.

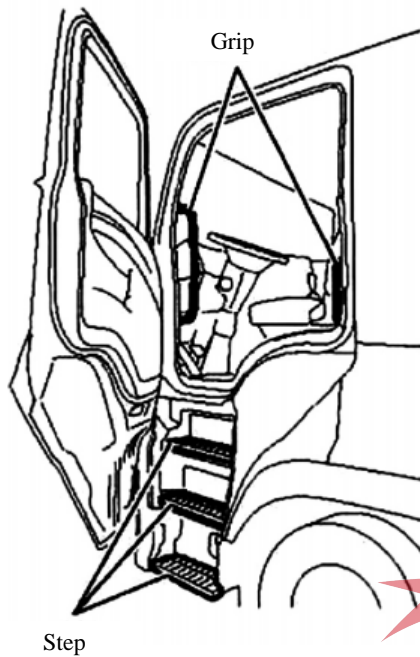
To close the door, pull the pull handle.

**ADVICE**

- When leaving the vehicle, be sure to stop the engine and lock the doors. Never leave the key in the vehicle.

POWERSTAR

## Getting In and Out of the Vehicle



Carefully check that the area around the vehicle is safe, hold the grip, and place your foot on the step when getting in or out of the vehicle.



## CAUTION

- When getting in or out of the vehicle, make sure you use the grip and step to always support yourself from at least 3 points. It is very dangerous to stand on the tire or wheel when getting in or out of the vehicle. Furthermore, do not try to jump in or out of the vehicle, as doing so could cause unexpected accidents or injuries.
- Getting in or out of the vehicle with oily or greasy hands or shoes could cause you to slip. Always thoroughly clean grease etc. from your hands and shoes before getting in or out of the vehicle.
- Rain and snow can cause the step to become very slippery. Therefore, always remove snow and ice from your shoes and the step, and be careful not to slip when getting in and out of the vehicle.
- Exercise caution when opening or closing doors, as strong winds or steep slopes may cause doors to open or close suddenly.




## ADVICE


- Do not hold parts other than the grip when getting in or out of the vehicle. Doing so may cause damage to the vehicle or injuries to yourself or others.

Electric Windows

When setting the ignition in "ON" position, the driver side and passenger side window can be opened/closed. After adjusting the ignition to the position "ACC" or "LOCK", the electric window can be operated after about 30s.

 **WARNING**

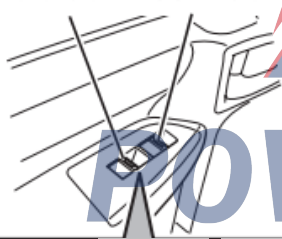
- Before closing the windows, make sure that there is no risk of a hand, head or anything else being trapped in the moving window. Failure to do so could result in serious injury. This is especially true when a child is with you.





 **NOTE**

- The safety system may stop operation when the window opened/closed operation under too powerful force. In this case, please turn off the switch, wait for several minutes and then confirm the operation is normal. If you can not operate the window, please stop operation and contact the "ISUZU supplier".

Window Switches on Driver's Door

Passenger side    Driver side



	OPEN	CLOSE
Passenger side		
Driver side		

**To Open the Driver's Window**

While lightly pressing the front end of "AUTO" switch, the window will open. Release your hand. And then the window stops at this position.

While forcibly pressing the front end of "AUTO" switch and then loosening your hand, the window will open completely and automatically. If you want to stop during the automatic opening of window, lightly press the front end of "AUTO" switch and then release it.

**To Close the Driver's Window**

When lightly uplifting the front end of "AUTO" switch, the window will be closed. Release your hand. And then the window stops at this position.

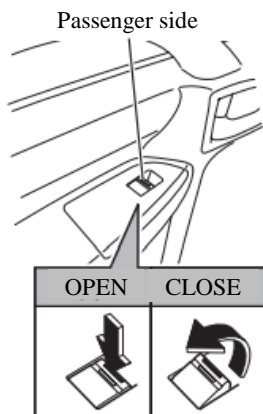
While forcibly uplifting the front end of "AUTO" switch and then loosening your hand, the window will close completely and automatically. If you want to stop during the automatic closing of window, lightly press the front end of "AUTO" switch and then release it.

**To open the passenger's window**

Press down the front end of the switch to open the window. Release your hand. And then the window stops at this position.

**To Close the Passenger's Window**

Raise the front end of the switch to close the window. Release your hand. And then the window stops at this position.

**Window Switches on Passenger's Door****Open**

Press down the front end of the switch to open the window. Release your hand. And then the window stops at this position.

**Close**

Raise the front end of the switch to close the window. Release your hand. And then the window stops at this position.

**CAUTION**

- Be sure to warn passengers, especially in the case of a child, not to let any part of the body become trapped or caught in a moving window.

# POWERSTAR

### Fuel Tank Filler Cap

#### WARNING

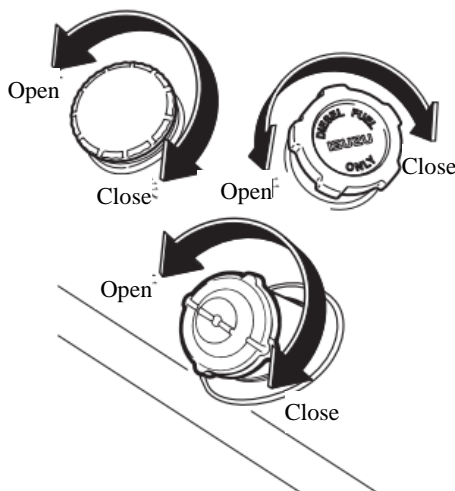
- Be sure to place the ignition switch in the "ACC" or "LOCK" position to shut down the engine before refueling the vehicle. Refueling while the engine is running could cause a fire in your vehicle.
- When refueling, never smoke or place any ignition source nearby. There is a risk of fire. After refueling, make sure that the fuel tank filler cap is tightly closed.

#### CAUTION

- The use of other fuels than ultralow sulfur diesel and low sulfur diesel may have an adverse effect on engine and tail gas purifier (urea SCR) and cause fault.
- Using diesel fuel other than low-sulfur diesel fuel could prevent the vehicle from complying with local legal requirements.
- Open the fuel tank filler cap slowly. If you open it quickly, fuel may spurt out.
- When refueling the vehicle, keep the nozzle pushed fully into the filler neck. Trying to add more fuel by pumping fuel with the nozzle partially withdrawn is dangerous because the auto-stop mechanism may not work, resulting in an overflow of fuel.

#### ADVICE

- The fuel must be ultralow sulfur diesel and low sulfur diesel.
- Be sure to use low-sulfur diesel fuel (containing sulfur of 50 ppm or lower). If you supply the vehicle with poor-quality fuel, water-removing additive or other additive, gasoline, kerosene or alcohol-based fuel, it could harm the fuel filter, prevent proper movement of fuel-lubricated parts in the injectors and adversely affect the engine and PM catalytic converter possibly resulting in a breakdown.



#### How to Open and Close the Fuel Tank Filler Cap

- ① Eliminate static from your body before opening the fuel tank filler cap.
- ② Slowly turn the cap counterclockwise to open it.
- ③ Refuel the tank.
- ④ Align the grooves on the cap and tank and turn the cap clockwise to close it.
- ⑤ Check that the cap is tightly closed.

#### WARNING

- If the fuel tank filler cap is not tightly closed, leaking fuel could start a fire while the engine is running.



## Urea Tank



## WARNING

- Never add other substances than the urea (AdBlue®) in urea tank. Please use and fill the Qingling assigned urea (AdBlue®) in the urea tank.

If other substances than the urea (AdBlue®) is filled, the fault of SCR system may be caused.



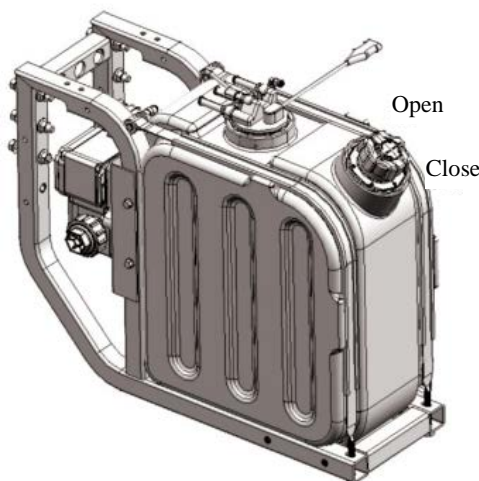
## ADVICE

- Please pay attention to the filling of urea (AdBlue®) and maintain water full. The engine will not start once the urea (AdBlue®) is used up.
- Never mix dirt in urea tank while uncovering the urea tank. The entry of any dirt will jam the urea filter, affect the quality of urea (AdBlue®) and cause the fault of urea SCR system.
- During running, the urea (AdBlue®) may leak from vent pipe. In addition, the frozen urea (AdBlue®) may damage the sensor or other components.
- The urea (AdBlue®) may rust the body or frame if it overflows to body or frame. Therefore, any overflowing urea (AdBlue®) shall be wiped and cleaned by clear water
- Never step or sit on the urea tank. This may cause the damage of urea tank, pipeline, sensor and other components.
- Never modify the exhaust pipe or muffler or move the position of urea tank. This may affect the tail gas purification performance. If the modification or movement is unavoidable, please contact the "ISUZU supplier".



## NOTE

- Normal urea (AdBlue®) is colorless, transparent, nontoxic and odorless.
- The urea (AdBlue®) will become white powder after dried. Any powdery urea shall be wiped from the filler port and cannot be filled into the urea tank.
- After the engine stops, sometimes you may hear the operation sound of urea tank or urea supply unit. This is normal because such sound shows that the urea (AdBlue®) is flowing back to the urea tank.
- It will take some time for the urea meter to set normal indicating after adding urea when engine running or ignition on the position "ON".



Filling method of urea (AdBlue®)

- ① When the ignition switch is placed at the position "LOCK", the engine will stop operation.
- ② Slightly loosen the urea tank cap, wipe the dirt or soil from cover and filler port.
- ③ Lightly open the tank cap.
- ④ Fill the urea to the line "F" according to the liquid level meter on the front face of urea tank.
- ⑤ Rotate the tank cap to confirm that it has closed the urea tank.
- ⑥ Confirm that the tank cap has been closed completely.

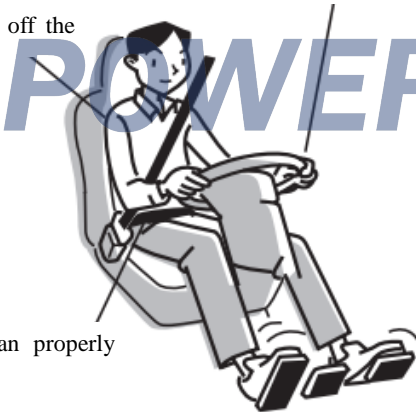
Urea tank capacity (reference value)
50L

Operation of Urea (AdBlue®)→ Refer to page 2-36  
 Whether to Use the Specified Urea (AdBlue®)→ Refer to page 2-36  
 Filling of Urea (AdBlue®)→ Refer to page 2-37

Seat

Make sure you don't need to move your shoulders off the

Make sure you can turn the steering wheel easily.



Make sure you can properly fasten the seatbelt.

The driver's seat must be adjusted so that when you sit well back in the seat, you can fully depress the pedals without moving your back from the seatback, and you can operate the steering wheel easily and freely. After making adjustments, check that the seat is completely locked.

A correctly adjusted seat for the proper driving position is fundamental to safe vehicle operation.

Make sure you can adequately press the pedals.

 WARNING

- Adjust the seat only before you start driving. Adjusting the seat while the vehicle is in motion must be avoided not only because the unlocked seat will move back and forth unstably, preventing you from taking the correct position, but might also cause you to lose control of the vehicle, possibly resulting in an accident.
- When the seat is adjusted, never place your hand adjacent to the seat underside or other movable places to prevent your finger or hand being nipped or damage.
- Never allow children to adjust their seats themselves; an adult should adjust the seat for occupants who are children. The accident may be caused if a child adjusts the seat by himself. After adjustment, please confirm that the seat has been firmly fixed without shaking. Otherwise the seat may get loose during running to cause accident. Also, the seat and its safety belt may not play their role.
- Driving with the seat excessively reclined could be very dangerous in the event of a collision or sudden stop. Raise the seatback, and apply the seat belt correctly while sitting straight in the seat.
- Do not place a cushion or similar object between your back and the seatback. Doing so not only affects the stability of your driving position but also prevents the seat belt from working effectively in the event of a collision.

Do not place any objects under the seat. If there are any objects under the seat, the seat could be locked in an improper position.

- Before making adjustments, check that the seat rails are free of anything that could obstruct the locking of the seat. Be careful that your hand or foot does not become trapped in the seat or rails when adjusting the seat.
- When adjusting the seat, be careful that the seat does not hit passengers or objects. Doing so could cause injury to passengers, or damage objects.

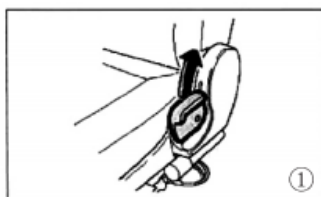


# POWERSTAR

## Driver's Seat

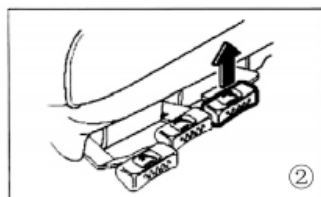
**General seat****① Reclining Adjustment**

To recline the seatback, raise the seatback tilt lever and gently lean back to the desired position. To move the seatback forward, lean forward with your back slightly clear of the seatback and raise the lever. After making adjustments, check that the seatback is fully locked.

**② Rear Tilt Adjustment of Cushion**

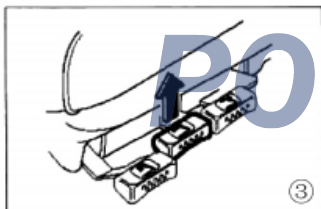
Pull up the handle, and exert an appropriate force to the rear end of the seat cushion down to adjust the height and inclination of the seat appropriately. After releasing the handle, the backrest can be locked.

※Except hard seats

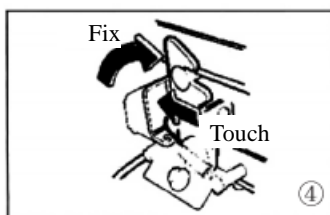
**③ Front Tilt Adjustment of Cushion**

Pull up the handle, and exert an appropriate force to the front end of the seat cushion down to adjust the height and inclination of the seat appropriately. After releasing the handle, the backrest can be locked.

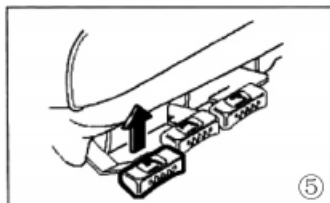
※Except hard seats

**④ Suspension Lock (Air Suspension Seat)**

Raise the handle to fix the suspension height at middle position. Please control the handle after leaving the seat.

**CAUTION**

- If controlling the handle while sitting on the seat, your hand or palm may be damaged.

**⑤ Seat Track**

Raise the handle and adjust the seat position back and forth.

## ※ Integrated seat



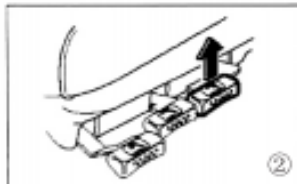
### ① Reclining Adjustment

To recline the seatback, raise the seatback tilt lever and gently lean back to the desired position. To move the seatback forward, lean forward with your back slightly clear of the seatback and raise the lever. After making adjustments, check that the seatback is fully locked.



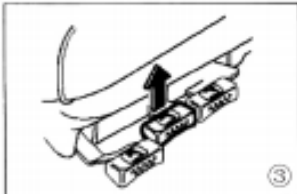
### ② Rear Tilt Adjustment of Cushion

Pull up the handle, and exert an appropriate force to the rear end of the seat cushion down to adjust the height and inclination of the seat appropriately. After releasing the handle, the backrest can be locked.



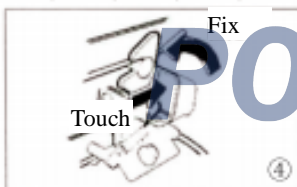
### ③ Front Tilt Adjustment of Cushion

Pull up the handle, and exert an appropriate force to the front end of the seat cushion down to adjust the height and inclination of the seat appropriately. After releasing the handle, the backrest can be locked.



### ④ Suspension Lock (Air Suspension Seat)

Raise the handle to fix the suspension height at middle position. Please control the handle after leaving the seat.



#### ⚠ CAUTION

- If controlling the handle while sitting on the seat, your hand or palm may be damaged.

### ⑤ Seat Track

Raise the handle and adjust the seat position back and forth.



### ⑥ Lumbar Support

Rotate the scale knob to enable that the seat can closely fit to your waist. This can relieve the driver from long-distance driving tiredly.



### Passenger's Seat ★



#### Reclining Adjustment

Raise the reclining lever to adjust the seatback angle.



#### CAUTION

- As with the driver, the passenger must also have a correctly fastened seat belt during driving, in case his/her body should undergo dangerously strong force from a collision or sudden braking.

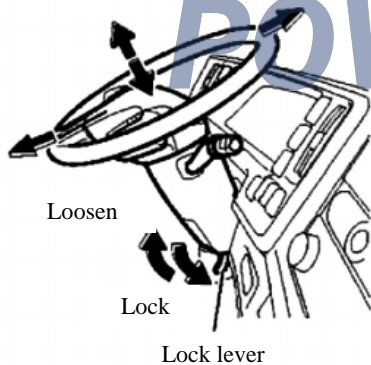
### Fully Adjustable Steering

The steering wheel is adjustable up and down as well as forward and backward.



#### WARNING

- After adjusting the steering wheel, try moving it up and down to make sure it is fully locked before you drive the vehicle.
- Adjust the steering wheel only when the vehicle is not in motion. Steering wheel adjustment on a moving vehicle is very dangerous, since a vertically moving steering wheel prevents the driver from properly controlling the vehicle.



#### Adjustment

- ① Lift the lock lever toward you to unlock the steering column.
- ② Sit in the correct driving position, and then move the steering wheel up and down, and forward and backward to select the optimum steering wheel position.
- ③ Firmly lock the steering wheel at the selected position by moving the lock lever to the lock position.

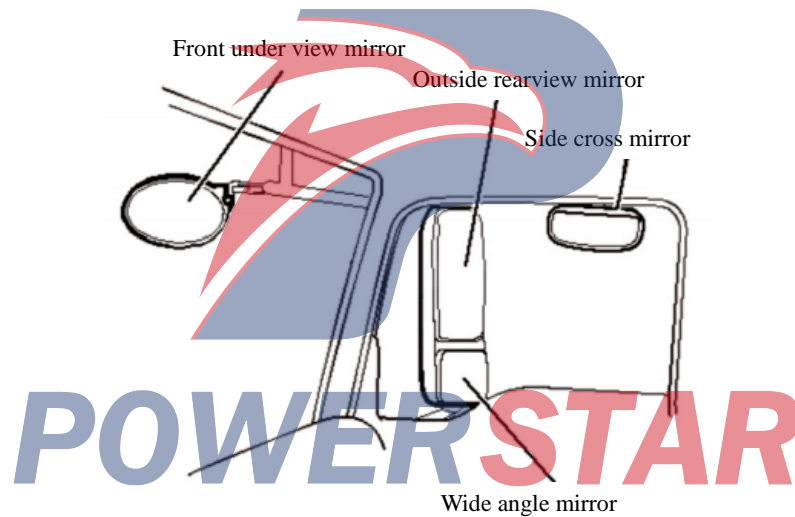
## Mirror

Sit in the correct driving position on the properly adjusted seat, and then check each mirror to ensure that it provides a proper view of the rear, the sides, the area just in front of the vehicle, and the area directly opposite to the driver's seat. Make adjustments if necessary and clean any dirty mirrors.

## Outside Mirror

### Door-mounted Mirrors

After properly adjusting your seat for proper driving position, adjust the mirrors indicated below so that they provide adequate views for checking the rear, the side and the areas just in front and immediately to the side of the vehicle by moving each of the mirrors.



**Outside Rearview Mirror**

Lateral-direction: Adjust the mirror so that you can see the vehicle's side including the cargo bed within the inner one-third of the mirror.

Vertical-direction: Adjust the mirror so that you see the rear bottom corner of the vehicle halfway up the height of the mirror.

**Wide-angle mirror**

Lateral-direction: Adjust the mirror so that you can see the vehicle's side within the inner one-fourth of the mirror.

Vertical-direction: Adjust the mirror so that you see the rear bottom corner of the vehicle halfway up the height of the mirror.

**Front underview mirror**

Adjust the mirror so that you see the bumper's right-hand edge at the center of the mirror and the windshield's right lower corner along the edge of the mirror.

**Side cross mirror**

Lateral-direction: Adjust the mirror so that you can see the cab's side in the mirror.

Vertical-direction: Adjust the mirror so that you see the cab within the upper one-fourth of the mirror.



- Adjust the mirrors when the vehicle is stationary, not while the vehicle is in motion.
- When checking the rear of the vehicle with mirrors, be careful that this does not distract your attention from the traffic ahead.
- Rearview mirrors may make the vehicle behind you appear farther away than it really is. Use these mirrors very carefully until you are able to correctly determine distances from the images.
- Keep the mirrors in mind when passing another vehicle on a narrow road, moving the vehicle into a garage or driving near pedestrians.
- Do not drive with the mirrors folded.



### Seat Belt



The protection provided by safety belts might be significantly reduced if they are not fastened properly; in certain cases, improperly fastened seat belts can even play a role in causing injury to the wearer. Seat belts must be worn not only by the driver but also by the passenger(s) before the vehicle starts moving.

You should be fully acquainted with the proper use of seat belts and important points to be respected as described below. Familiarizing yourself with the correct use of seat belts is essential for your safety.

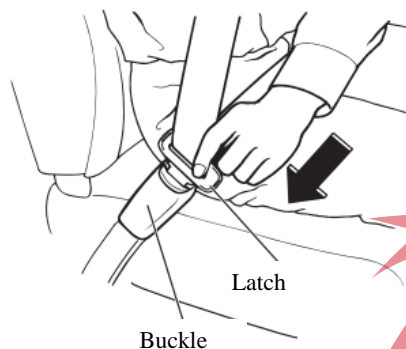
#### WARNING

- Seat belts must always be fastened **BEFORE** starting to drive.
- Seat belts provide full protection only when the driver and passenger(s) fasten them while sitting upright and fully back on the seat.
- Wearing a seat belt with the seatback **excessively reclined** could be very dangerous in a collision or sudden stop since the occupant may slide under the belt and be seriously injured. Seat belts work best only when the occupant is sitting **well back and straight up** in the seat.
- Be sure to insert the latch plate **into the buckle until a click is heard**. An incompletely inserted latch plate is dangerous in the event of a collision or sudden stop.
- Wear the seat belt as low as possible around the hips, not around the waist. A seat belt running over the waist would press the abdomen with a strong force and could increase the likelihood of injuries in a collision or sudden stop.
- Do not use a seat belt for a small child if the belt is on or very close to the child's neck or chin. Also, do not use a seat belt if it does not fit snugly over the child's hips because restraining the child under those conditions could be dangerous in the event of a collision or sudden stop. Instead, use an appropriate child restraint system available on the market. For further details, please contact your Isuzu Supplier.
- Use a child restraint system that fits the size of the infant or child. Install the system according to the manufacturer's instructions.
- Remove any twists in the seat belt before fastening it. A seat belt with twists will not provide full protection because it cannot disperse shocks efficiently in the event of a collision or sudden stop.
- Pregnant women or people suffering from chest or abdominal conditions should check with their doctor for specific recommendations about wearing seat belts.
- Do not use one seat belt for more than one person. If worn by more than one person, the seat belt would not work effectively in a collision or sudden stop.
- Have seat belts inspected and, if necessary, replaced by your Isuzu Supplier when the webbing becomes frayed or worn and/or when the buckle or other mechanical parts fail to work properly.
- If your vehicle has been involved in a collision, the seat belts worn at the time may have lost their original strength due to impact even if they appear intact. These seat belts must be inspected and, if necessary, replaced by your Isuzu Supplier.
- Be careful to keep the buckles and retractors free of dust and foreign matter.
- Wearing seat belts is a legal requirement in most countries. The driver is responsible not only for wearing a seat belt himself/herself but also for prompting all passengers to wear their seat belts. It is necessary, however, to check with a doctor about the appropriateness of a seat belt for a pregnant woman or a passenger with a chest/abdominal condition.

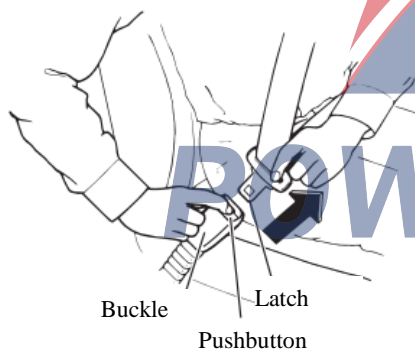
## ELR (Emergency Locking Retractor) Three-Point Seat Belts

**WARNING**

- The shoulder belt should be adequately positioned on your shoulder but should not touch your neck and/or face. The shoulder belt could harm you in a collision or sudden stop if it is in contact with your neck and/or face.

**To Fasten**

- ① Sit on the seat in the correct driving position.
- ② Pull out the seat belt holding the latch plate. After checking that there are no twists in the belt, insert the latch plate into the buckle until it clicks.
- ③ Position the lap belt so that it snugly fits as low as possible on the hips.

**To Unfasten**

Push the button on the buckle. As the belt automatically retracts, let it be taken up slowly by holding on to the latch plate until the belt is fully retracted.

**POWERSTAR**



## ADVICE

- While being automatically retracted, the seat belt could damage a nearby window or interior trim unless the latch plate is properly held. Hold the latch plate to ensure that the belt is taken up slowly.
- Before closing the door, check that the retracted seat belt is taut. A slack belt could become trapped in the door or seat rail.
- When the passenger's seat belt is fully taken up (or not pulled out), check that the stopper is holding the belt in a fully taut state.



## NOTE

- The three-point seat belts are provided with an emergency locking retractor (ELR) function. The safety belt of driver's seat is also provided with load limiter function.  
[ELR function]
- The ELR normally allows the seat belt to move in and out freely as the occupant moves. However, it locks the seat belt to restrain the occupant when a forward force resulting from a collision or sudden stop acts on the occupant.
- The ELR also locks the seat belt when the belt is pulled out quickly. If this happens, allow it to retract once and then pull it out slowly.



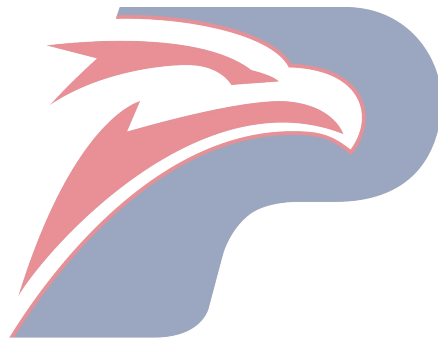
**POWERSTAR**

STARTING AND STOPPING THE ENGINE

4-3

INSTRUMENTS, WARNING LAMPS AND INDICATOR LAMPS

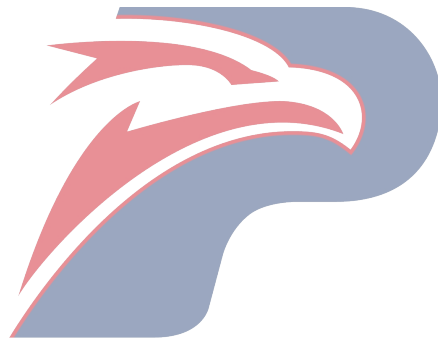
4-9



**POWERSTAR**

## STARTING AND STOPPING THE ENGINE

• Engine Starting Method	4-4
• Engine Stopping Method	4-6



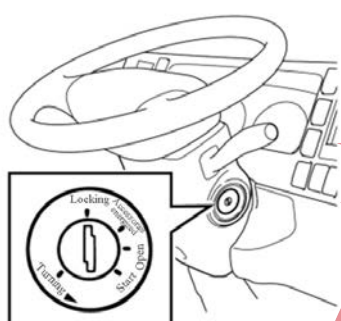
**POWERSTAR**

## Engine Starting Method

Make sure that the switches, including those for the windshield wiper, light control and air conditioner, are in the "OFF" position.

Turn the ignition switch to the "ON" position to check that the warning and indicator lights turn on normally and the fuel level is proper.

## Starting the Engine



### WARNING

- Do not keep the ignition switch in the "START" position for more than about 10 seconds. Operating the starter for too long might cause battery failure or might result in overheating and even a fire.

Ignition Switch → Refer to page 4-62



### ADVICE

- At low ambient temperatures, a cold engine may emit more smoke (white smoke) than usual.
- If the engine can't be started at once time, please return the ignition switch to the position "ACC", wait for 20~30s and restart the engine.
- If the engine still can't be started, please contact the ISUZU supplier.

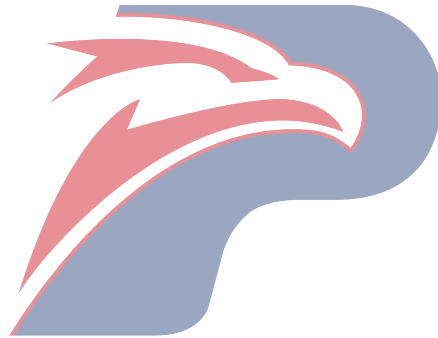
General condition or engine hot condition

- ① Ensure the ignition switch at the position "ON".
- ② Step down the clutch pedal to its limit.
- ③ Step down the brake pedal, turn on the ignition switch at the position "START" till the engine starts. Don't operate the ignition over 10s. If the engine can not start under 10s, turn off the ignition switch to the position "ACC", wait for 20~30s, and then restart the engine.
- ④ After the engine is started, recover the clutch pedal to its original position.



ADVICE

- Do not start the engine if the vehicle turns over in emergency or the vehicle is soaked in water in the case of flood. Otherwise, the internal fault may be caused. At this point, immediately contact ISUZU supplier.



**POWERSTAR**



**In cold days,**

- For the vehicles without preheater, please step down the clutch pedal and accelerator pedal to their limit and then start the engine.



- For QOS vehicle with preheater, please ensure the ignition switch at the position "ON". In the case of engine coolant temperature lower than 0°C, QOS indicator lamp will be lit for 1~15s. After the light is off, please step down the clutch pedal and accelerator pedal to their limit and then start the engine.



**ADVICE**

- In order to protect engine, never operate the engine at its maximum speed after startup. After the accelerator pedal is released, start the normal driving operation.

**Engine Stopping Method**



The engine will stop after the ignition switch is adjusted from "ON" to "ACC".



**WARNING**

- Never shut down the engine while a vehicle is moving. Otherwise the power steering gear will not operate and the steering wheel will be difficult to operate. Also, the brake will be disabled and the clutch pedal will become unhandy. This is very dangerous.

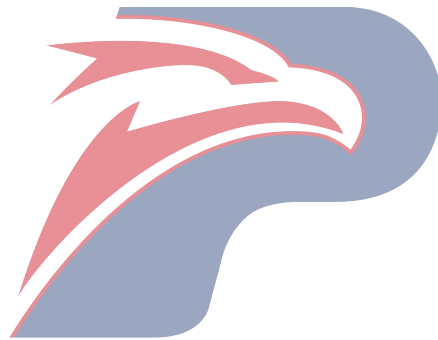


**CAUTION**

- The brake may freeze while driving in a cold region. Before stopping your vehicle, please lightly step the brake pedal for 5~6 times at a speed of 30km/h and then use the parking brake lever after the brake is unfrozen.

**ADVICE**

- Do not shut down the engine immediately after driving the vehicle. Otherwise, seizure or other failures may result. Before stopping the engine, run the engine at idle for approximately 3 minutes to cool it down after applying the parking brake and making sure of the following: The gearshift lever is in "N".
- To prevent the battery from going dead, turn the ignition switch to the "ACC" or "LOCK" position after stopping the engine. If you leave the vehicle for a long time, remove the key.



# POWERSTAR

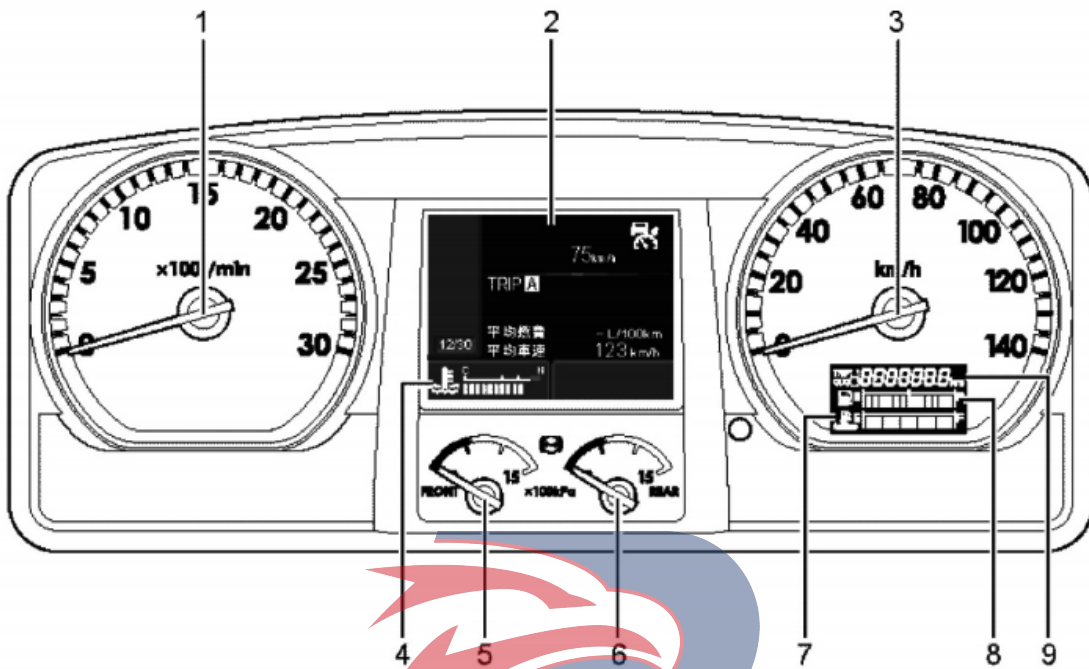
## INSTRUMENTS, WARNING LAMPS AND INDICATOR LAMPS

• How to Read the Instruments (Instruments Layout)	4-9
• Speedometer	4-10
• Odometer and trip meter	4-10
• Tachometer (Engine tachometer)	4-11
• Air Pressure Gauge	4-12
• Water temperature gauge	4-13
• Fuel gauge	4-14
• Urea scale	4-15
• Multifunctional display screen	4-16
• Warning lamp/ indicator lamp arrangement	4-37
• Alarm★	4-59
• DVR★	4-60



**POWERSTAR**

How to Read the Instruments (Instruments Layout)

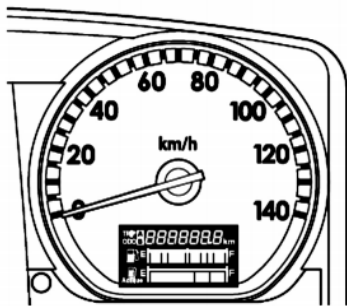


No.	Name	Page
1	Tachometer (Engine tachometer)	4-11
2	Multifunctional display screen	4-16
3	Speedometer	4-10
4	Water temperature gauge	4-13
5	Air pressure gauge (front)	4-12

No.	Name	Page
6	Air pressure gauge (rear)	4-12
7	Urea scale	4-15
8	Fuel gauge	4-14
9	Odometer, trip meter	4-10

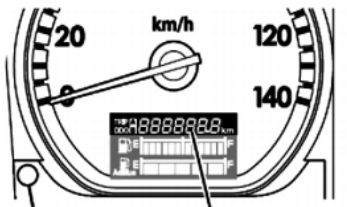
★ Denoting “configuration as per vehicle model” or “configuration as per order”

## Speedometer



Indicate the running speed at km/h.

## Odometer and Trip Meter



Select button

Odometer and trip meter  
indication zone

While short pressing (within 1s) the select button, it is allowed to switch among "ODO (odometer)", "TRIP (trip meter) A" and "TRIP (trip meter) B".

**Odometer (total running mileage)**

Indicate the total running mileage at km. Take no account if greater than 1999999km.

**Trip meter (interval odometer)**

Calculate a distance.

Respectively record "TRIPA" and "TRIPB". Expressed in km, calculate the mileage within 0~999999.9km. In the case of

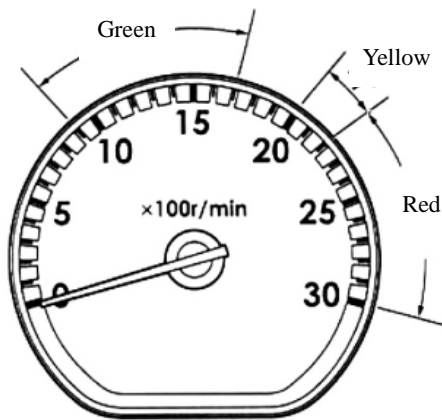
"TRIPA", while short pressing (within about 1s) the select button, "TRIPA" will return to 0. This operation can also reset "TRIPB" as 0.



## NOTE

- While adjusting "TRIPA" as 0, "TRIPB" will remain unchanged. Similarly, while adjusting "TRIPB" as 0, "TRIPA" will remain unchanged.
- If the destinations are two different places, adjust "TRIPA" as 0 before departure; when the first destination is reached, adjust "TRIPB" as 0. This is very convenient to respectively record the total running mileage and the distance between destination places.

## Tachometer (Engine Tachometer)



Indicate the engine revolutions per minute.

The green zone indicates a range for economical driving.

Do not drive your vehicle with the needle of the tachometer in the red zone.



## ADVICE

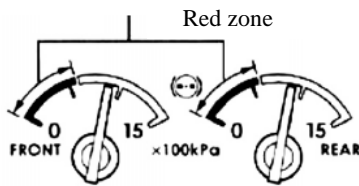
- Exercise extreme caution when shifting down on a steep downslope. The engine speed may easily exceed the critical speed, which can seriously damage the engine.



**POWERSTAR**

## Air Pressure Gauge

Brake barometer (front/rear)



This gauge indicates the pressure of the compressed air in the air tank.

If the needle enters the red zone, the air pressure warning lamp comes on and the warning buzzer sounds (To stop the buzzer, pull up the parking brake lever).

If the air pressure warning lamp comes on, immediately stop driving and engage the parking brake. Then, place the gearshift lever into "N". Then, run the engine at idle to increase air pressure. If air pressure will not increase, or there is a great difference between the readings of the two gauges, or it takes time for the needles to go up, contact the nearest Isuzu Supplier.

Checking the Air Pressure → Refer to page 7-94

Specified air pressure
900~930kPa
{9.2~9.5kgf/cm <sup>2</sup> }

Specified air pressure
930~1080kPa
{9.5~11.0kgf/cm <sup>2</sup> }

**WARNING**

- Do not drive your vehicle if the needles are in the red zone or the air pressure warning lamp is on. Brakes are then not fully functional, and it is dangerous to operate the vehicle.

Water Temperature Gauge



Alarm zone (red)

Show the engine coolant temperature of the engine. The red zone indicates the engine overheating. "Inadequate engine coolant", "overheating" or other words will be shown on multi-function display screen and the beep sound will be given. If the vehicle is driven reluctantly, the engine will burn out. Immediately park your vehicle at a safe place, maintain an engine speed slightly higher than idle speed to cool the engine, and then shut down the engine.

Insufficient engine coolant (during parking)



**Insufficient engine coolant**

Check the engine coolant for leakage and refill it when necessary. In order to prevent scalds, never open the auxiliary fuel tank cap at high temperature.

Overheating (when parking)



**Overheating**

After cold engine running, close the engine and check engine coolant. Do not open the auxiliary fuel tank cap at high temperature to prevent scald.



ADVICE

- If the needle goes up above the upper limit of the safety zone and enters the "H" zone while you are driving, the engine is likely to overheat. Immediately pull safely off the road out of the way of any traffic and take necessary actions to deal with engine overheating.
- If the needle nears the "H" zone but is still in the safety zone, this is not a problem. But, check the engine coolant level in the radiator sub-tank. Add engine coolant up as required.
- The engine can seize up if it is stopped immediately after driving. Take appropriate actions for engine overheating.

Check and Treatment during Overheating → refer to page 8-24

## Fuel Meter



Indicate the fuel level in fuel tank.

F: Full

E: Empty



## ADVICE

- When the fuel is used up, it is necessary to discharge air from fuel system.



## ADVICE

- Make a habit of filling up the fuel tank well before it approaches empty.
- After filling up the fuel tank, it takes a while for the fuel gauge needle to stabilize after the ignition switch is turned to the "ON" position.



## Refueling

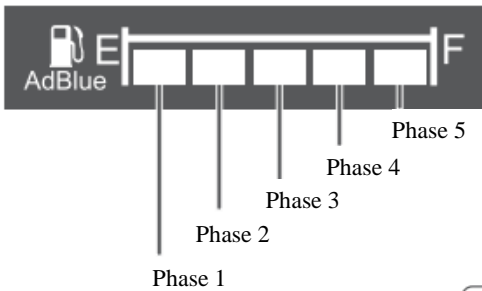
When there is **not** many fuel in fuel tank, the multi-function display screen will indicate "refueling".

When the Fuel Runs Out → Refer to page 8-13

# POWERSTAR



Urea Scale



Indicate the remaining quantity in urea tank. "F" shows full, "E" shows empty.

The remaining quantity of urea (AdBlue®) can be divided into five levels.



ADVICE

- After the urea (AdBlue®) is used up, the engine will not start. Please refill as soon as possible.

Urea tank capacity (reference value)
50L

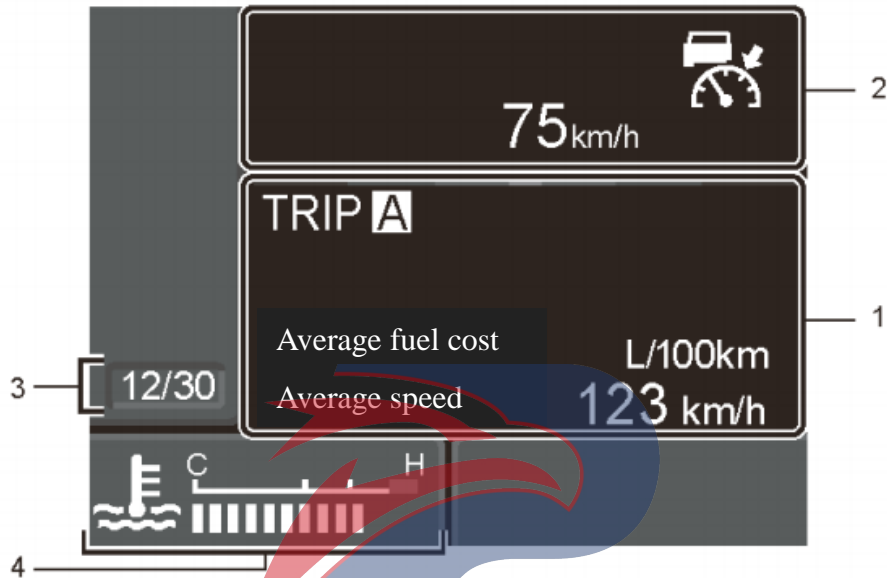
- Operation of urea (AdBlue®)→ Refer to page 2-36
- Whether to Use the Specified Urea (AdBlue®)→ Refer to page 2-36
- Filling of Urea (AdBlue®)→ Refer to page 2-37
- Urea Tank→Refer to page 3-9

**POWERSTAR**

## Multi-function Display Screen

The multi-function display will display the vehicle information when vehicles running, and can also set maintenance information, time date and check ECO operating condition.

MENU Interface→Refer to page 4-29



#### 1. Fuel consumption information and various warning and operating messages

Normally, it can indicate voltage, fuel consumption, time, date and other operating management information. In the case of any system fault or any equipment operation, it will give priority to the indication of warning and operating messages.



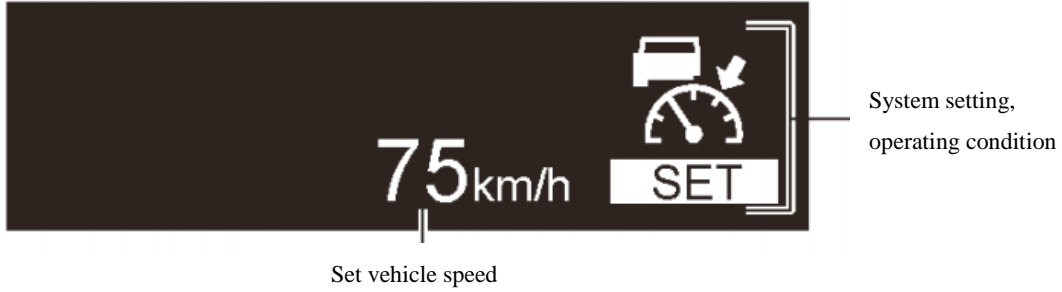
#### ADVICE


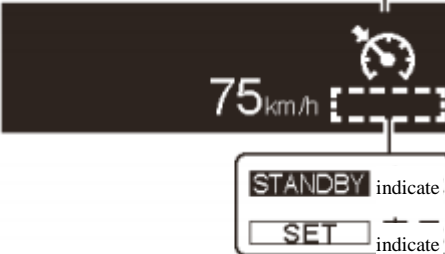
- During the warning and operating messages have been displayed, put on the "REOTT" key and return to the initial interface screen. If not, operating any switch or holding new warning item, multi display will screen on warning message.

2. Driving assistance message

Indicate the operating and supporting condition of driving assistance system in relation to automatic cruise and adjustable speed limiter.

Prompt image

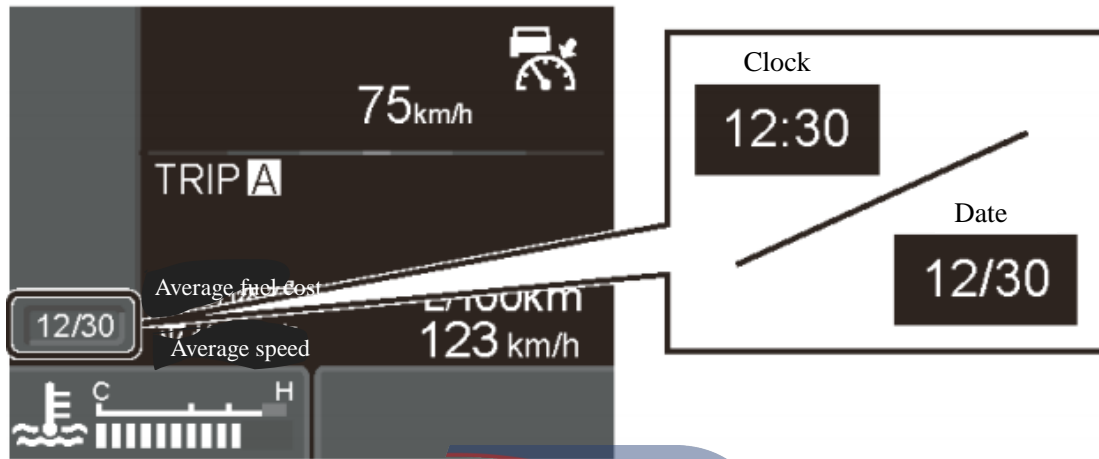


Driving assistance device	Image	Pages
Adjustable speed limiter	<p data-bbox="724 949 1106 976">Main image of adjustable speed limiter</p> 	4-88
Automatic cruise	<p data-bbox="903 1323 1214 1350">Main image of automatic cruise</p> 	4-82

### 3. Clock and date

Indicate the clock and date. On the menu, it is allowed to switch between clock and date, and change year, month, day, hour and minute.

MENU Interface→Refer to page 4-29



### 4. Water temperature gauge

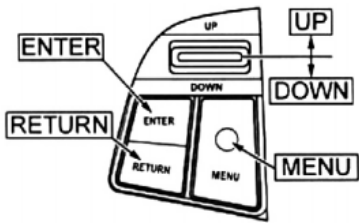


Show the engine coolant temperature.

Water Temperature Gauge→Refer to page 4-13

# POWERSTAR

Multi-function display screen switch



Located on the left of steering wheel, this switch is used to switch interface and select function.

Switch	Function
MENU	It is used to show the menu interface.
ENTER	It is used to confirm an option.
RETURN	It is used to back to the previous interface.
UP/DOWN	It is used to move pointer and adjust value.

General interface migration image

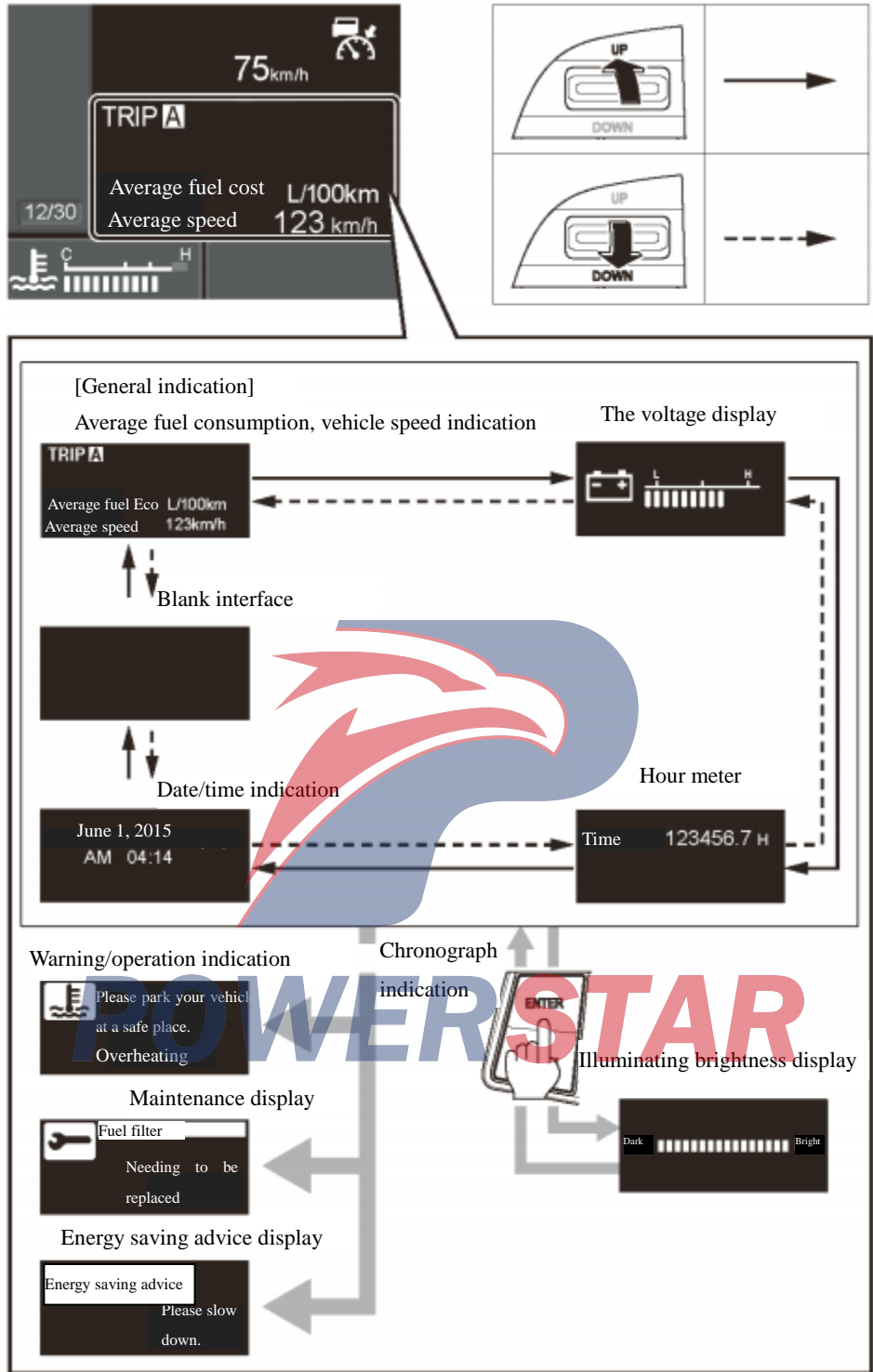
When the ignition switch is placed at "ON", it can indicate all information before engine shutdown. In the case of any system fault or any equipment operation, however, it will give priority to the indication of warning and operating messages.



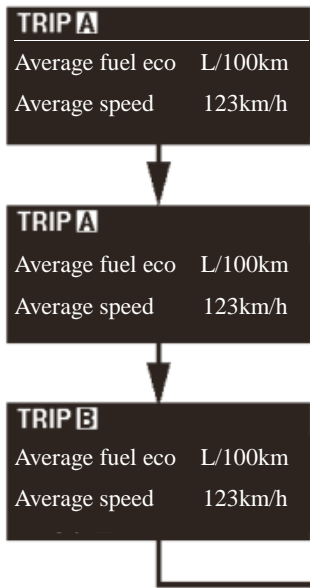
NOTE

- While pressing the key on multi-function display screen during the warning and operating messages, back to the MENU interface. Subsequently, back to the warning message interface again, if there is no On/Off operation or a new warning occurs within 1 minute.

**POWERSTAR**

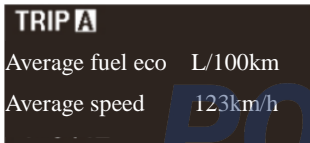
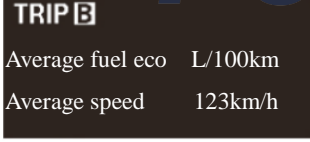


Average fuel economic, average vehicle speed message



Indicate the average fuel economic and average vehicle speed during running to urge the driver to save energy. While pressing the "UP" or "DOWN" key on multi-function display screen, it is allowed to view the average fuel economic and average vehicle speed. After switching between odometer and trip meter by means of linkage, it is allowed to view the relevant information. The multi-function display screen doesn't indicate the relevant information of odometer.

→ Quick press the select key.

Picture of multi-function display screen	Presentation content
	<p>This picture will occur when selecting "TRIP A" of trip meter. It is used to indicate the average fuel consumption and average vehicle speed in TRIP A area.</p>
	<p>This picture will occur when selecting "TRIP B" of trip meter. It is used to indicate the average fuel consumption and average vehicle speed in TRIP B area.</p>

**Resetting method of average fuel economic and average vehicle speed**

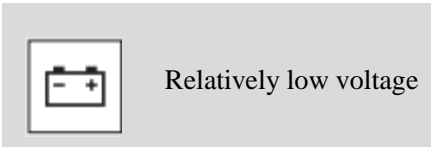
It is allowed to reset TRIP A and TRIP B by means of linkage.

Voltmeter



It is used to indicate the battery voltage. In the case of too low or too high voltage, the multi-function display screen will indicate the "abnormal voltage" message. The reason of abnormal voltage may be that the battery discharges excessively or the alternator is abnormal. please contact the ISUZU supplier.

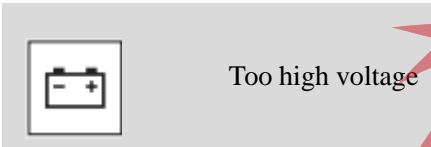
Voltage abnormally (relatively low voltage)



ADVICE

- In the case of engine start, the voltmeter-indicated scale may be in red zone. If the indicated scale returns to white zone after engine start, this shows that all is normal.

Voltage abnormally (too high voltage)



Hour meter



The hours of use of engine will be shown on multi-function display screen.

You can view the hour meter by using UP/DOWN button on the left of steering wheel. The figure on the left of decimal point shows hours while the figure on the right shows 1/10 of hours.

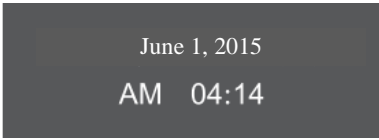
Even if the ignition switch is placed at the position "LOCK", you still can view the hour meter as long as you press the select key within 5 minutes.

ADVICE

- The hour meter cannot be reset.

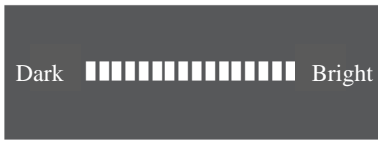


Calendar and time



Indicate the date (year, month and day) and week, including two time intervals, AM (forenoon) and PM (afternoon).

Illuminating brightness display



Generally, it is allowed to view the illuminating brightness while pressing "ENTER" key. This operation is used to adjust the brightness of multi-function display screen. While pressing "UP" key, the brightness will increase; while pressing "DOWN" key, the brightness will reduce. When the lighting switch is placed at "OFF", it is allowed to set any brightness of "☺" and "☹".



**POWERSTAR**

### Overview of warning and operating message









The warning lamp which is used to indicate each abnormal condition and the indicator light which is used to indicate equipment operation will precede over general indication information. When many information are indicated, they will be of alternative indication every 3s.























CAUTION

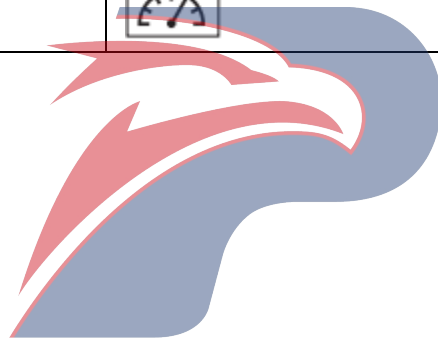
- When the vehicle has fault to effect safety, Multi Display will show red message. Immediately park your vehicle at a safe place for vehicle service.

### Warning and operation tips

Name	Display interface		Color	Page
	When parking	When driving		
Overheating	 <p><b>Overheating</b> After cold engine running, close the engine and check engine coolant. Do not open the auxiliary fuel tank cap at high temperature to prevent scald.</p>	 <p>Please park the vehicle at a safe place. <b>Overheating</b></p>	Red	4-45
Insufficient engine coolant	 <p><b>Insufficient engine coolant</b> Supplement engine coolant after confirming no engine coolant leakage. Do not open the auxiliary fuel tank cap at high temperature to avoid scald.</p>	 <p>Please park the vehicle at a safe place. <b>Insufficient engine coolant</b></p>	Red	4-44
Oil pressure abnormality	 <p><b>Oil pressure abnormality</b> Please check the oil level. If the oil level is normal and there is no leakage, please consult an Isuzu supplier.</p>	 <p>Please park the vehicle at a safe place. <b>Oil pressure abnormality</b></p>	Red	4-41
Charging abnormality	 <p><b>Charging abnormality</b> Please check the belt. There is a risk of battery run-down. Please consult an Isuzu supplier.</p>	 <p>Please park the vehicle at a safe place. <b>Charging abnormality</b></p>	Red	4-42









Name	Display interface		Color	Page
	When parking	When driving		
Fuel filter (drainage)	 <p><b>Fuel filter</b> Existence of moisture and deposits in the fuel filter. Please discharge water.</p>	 <p>Please park the vehicle at a safe place. <b>Fuel filter</b></p>	Red	4-43
Load limiting	 <p><b>Load limiting</b> The current oil temperature is high; in order to protect the engine, the output has been limited. When the oil temperature returns to normal, load limitation will be eliminated.</p>	 <p><b>Load limiting</b></p>	Amber	4-56
Voltage abnormality (relatively low voltage)	 <p><b>Low voltage</b></p>		Red	4-57
Voltage abnormality (too high voltage)	 <p><b>Too high voltage</b></p>		Red	4-57
Low voltage notes	 <p><b>Low voltage notes</b> Please inject air.</p>	 <p><b>Low voltage notes</b></p>	Red	4-39
Forget to restore the hand brake	 <p><b>Forget to restore the hand brake</b></p>		Red	4-57
Urea injection abnormality	 <p><b>Urea injection abnormality</b> The urea injection system is abnormal. Please consult an Isuzu supplier.</p>	 <p><b>Urea injection abnormality</b></p>	Amber	4-56
Urea replenishing	 <p><b>Urea replenishing</b> Please replenish the designated urea. When there is no urea, the engine cannot be restarted.</p>	 <p><b>Urea replenishing</b></p>	Amber	4-55
Communication system abnormality	 <p><b>Communication system abnormality</b> Please shut down the engine and then restart it. If the interface still appears, please consult an Isuzu supplier.</p>	 <p>Please park the vehicle at a safe place.</p>	Red	4-50

Name	Display interface		Color	Page
	When parking	When driving		
ABS abnormality		ABS	Amber	4-39
Refueling		Refueling	Amber	4-51
PTO running		PTO running	Red	4-54
Automatic cruise mode		Automatic cruise mode	Green	4-82
Variable SLD mode (variable speed limiter)		Variable SLD mode	Green	4-88



# POWERSTAR

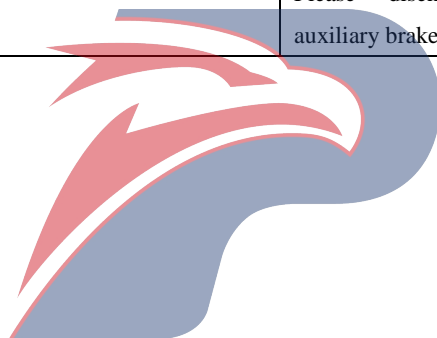
**Maintenance display**

Name	Display information		Color	Page
	When parking	When driving		
Engine oil & filter		Engine oil & filter Needing to be replaced	Amber	4-46
Fuel filter		Fuel filter Needing to be replaced	Amber	4-47
Gearbox gear oil		Gearbox gear oil Needing to be replaced	Amber	4-46
Differential gear oil		Differential gear oil Needing to be replaced	Amber	4-57
Power steering fluid		Power steering fluid Needing to be replaced	Amber	4-48
Compressed air dryer		Compressed air dryer Needing to be replaced	Amber	4-48
Tire replacement		Tire replacement Needing to be replaced	Amber	4-49
Starter		Starter Needing to be replaced	Amber	4-49

**POWERSTAR**

**Energy saving advice display**

Name	Display information		Color	Page
	When parking	When driving		
Energy saving advice (speed)		Energy saving advice Please slow down!	White	4-58
Energy-saving advice (engine speed)		Energy saving advice Please reduce the engine speed!	White	4-58
Energy-saving advice (rapid acceleration)		Energy saving advice Rapid acceleration	White	4-58
Energy-saving advice (Rapid increase speed)		Energy saving advice Rapid increase speed	White	4-58
Energy-saving advice (long idle idling )	Energy saving advice Long idle idling		White	4-58
Energy-saving advice (auxiliary brake)		Energy saving advice Please disengage the auxiliary brake	White	4-58




# POWERSTAR

System Inspection Indication

When the ignition switch is placed at "ON", conduct the system inspection of each equipment. The system inspection interface will be shown in multi-function display screen. Switch to general interface after engine start.

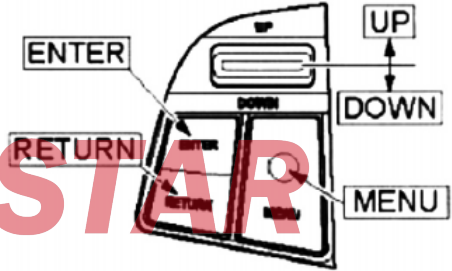
MENU Interface

Put on the "MENU" key, the menu mode will show on multifunction display screen. Select a menu item by using "UP" or "DOWN" key and then put "ENTER" key.

 **ADVICE**

- When the vehicle is driven with MENU interface activated, the MENU interface will switch to general interface. During the vehicle running, can not use MENU mode interface.

MENU	
Trouble code	
<b>Maintenance information</b>	
Maintenance information setting	
User setting	
ECO state presentation	
System demo mode	



Menu	Description		Reference page
Trouble code	Indicate fault code.		4-31
Maintenance information	Indicate only the maintenance items which has been set in "maintenance information setting", including the replacement time of grease. Also, the replacement time (distance) can be reset.		4-31
Maintenance information setting	Set the replacement time (distance) of each maintenance item.		4-32
User setting	Date setting	Set the date	4-33
	Time setting	Set the time	4-34
	Display setting	Indicate time or date	4-35
	Energy saving advice display	Set the recommended reference value for energy-saving	4-35
ECO state presentation	Use the bar diagram and figure to indicate the operating condition of TRIP A or TRIP B. Determine whether the vehicle operating condition is environment-friendly.		4-36



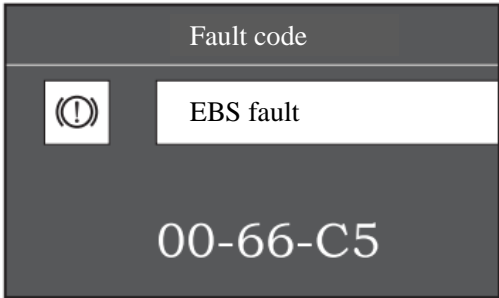
## ADVICE

- If the maintenance time is not set in "maintenance information setting", then the "maintenance information" cannot be selected.
- The "fault code" is available to see only in the case of fault.
- While pressing the "MENU" key during the vehicle running, it is allowed to indicate the general indication interface.

# POWERSTAR

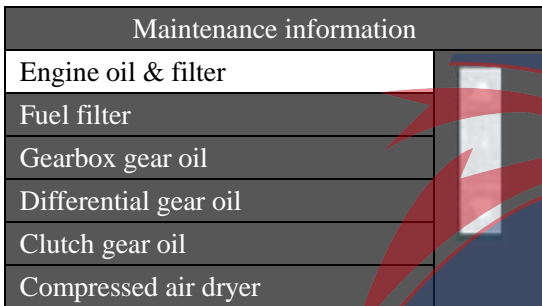


Fault Code



It is allowed to view the recorded fault code of a vehicle. In the case of more than one fault, they will be of alternative indication every 5s.

Maintenance Information



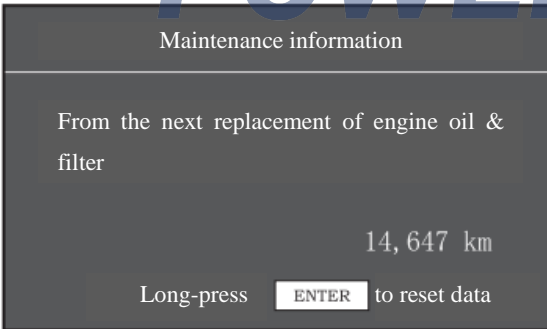
View maintenance items by using "UP" or "DOWN" key; confirm the maintenance time of the selected item by "ENTER" key.

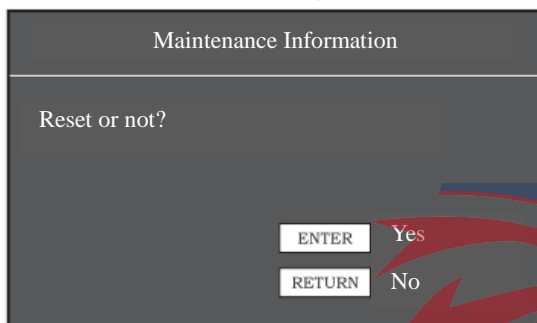
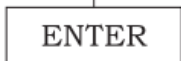
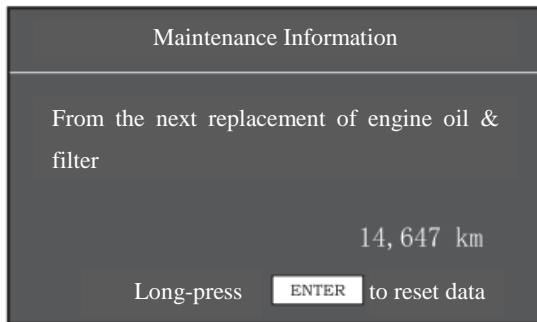


- Do not indicate the item whose maintenance time is not set in "maintenance information setting".

ENTER

POWERSTAR

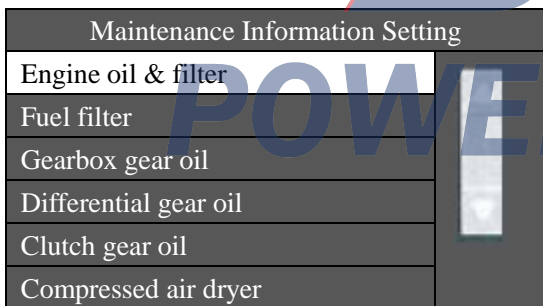




Resetting method of replacement time

- ① While long pressing the "ENTER" key, a dialog box of "reset or not?" will pop up.
- ② While pressing the "ENTER" key, complete the reset and back to the distance indication interface. If not reset, press the "RETURN" key.

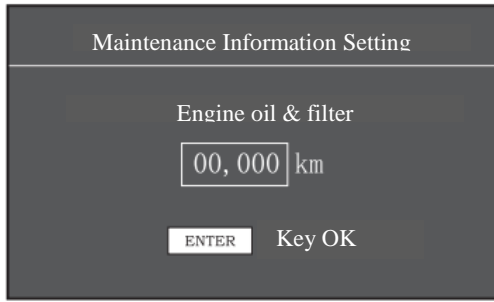
Maintenance Information Setting



Use the "UP" or "DOWN" key to select the item whose maintenance time needs to be set, then press the "ENTER" key.

 **ADVICE**

- The default value of replacement time is recorded in Maintenance Notes. The set value can be shorter than this default value.
- There is no default value for the maintenance time of tire. It is allowed to set any value within 120,000km.



**Setting method for replacement time**

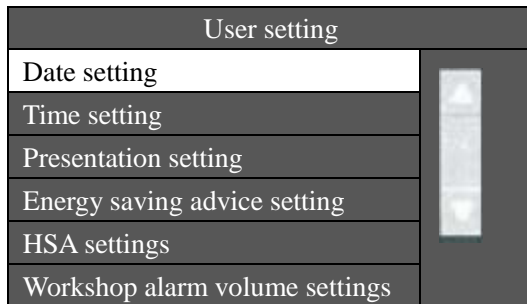
- ① Use the "UP" or "DOWN" key to select the replacement time.
- ② Press "ENTER" for decision

**Setting range**

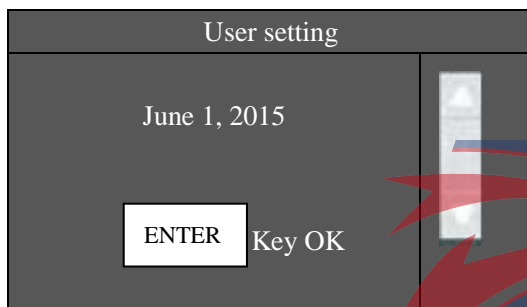
Description	Initial set value	Setting range of replacement period
Engine oil & filter	20,000km	No setting, 5000-45,000Km
Fuel filter	40,000km	No setting, 100,000Km
Gearbox gear oil	50,000km	No setting, 5000-50,000Km
Differential gear oil	50,000km	No setting, 5000-50,000Km
Compressed air dryer	100,000km	No setting, 100,000Km
Power steering fluid	100,000km	No setting, 5000-100,000Km
Tire	No setting	No setting, 10,000-120,000Km
Starter	Setting	Not set, set



## User Setting



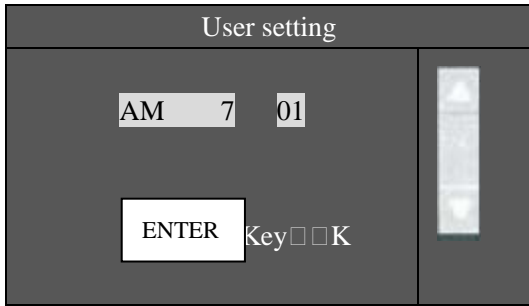
Use the "UP" or "DOWN" key to select the item to be set or viewed, then press the "ENTER" key.

**Date setting**

Setting method:

- ① Set the year. Use the "UP" or "DOWN" to select and then press the "ENTER" key.
- ② Set the month. Use the "UP" or "DOWN" to select and then press the "ENTER" key. Use the "RETURN" key can reset.
- ③ Set the date. Use the "UP" or "DOWN" to select and then press the "ENTER" key. Use the "RETURN" key can reset.

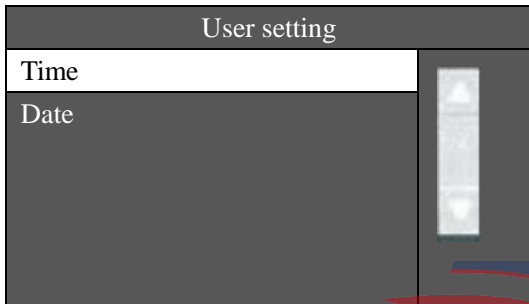
# POWERSTAR



**Clock setting**

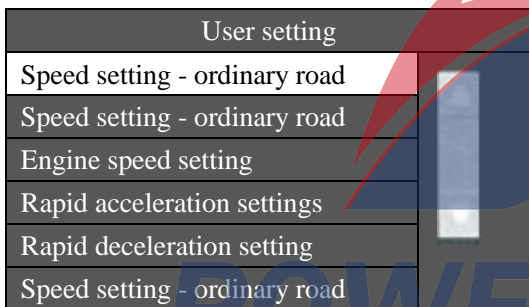
Setting method:

- ① Set the hours. Use the "UP" or "DOWN" to select and then press the "ENTER" key.
- ② Set the minutes. Use the "UP" or "DOWN" to select and then press the "ENTER" key. Use the "RETURN" key can reset.



**Display setting**

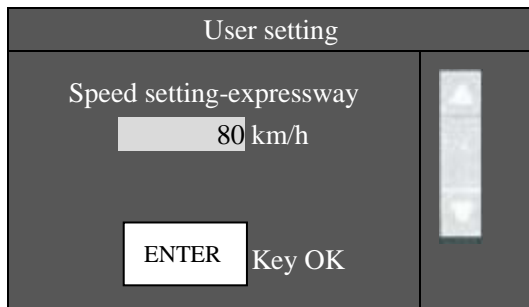
Use the "UP" or "DOWN" to select and then press the "ENTER" key.



**Energy saving advice setting**

Can select saving advice on/off on display, also can select saving advice standard. Use the "UP" or "DOWN" key to select the item to be set, then press the "ENTER" key.





Setting method:

Set according to vehicle purpose.

Use the "UP" or "DOWN" to select and then press the "ENTER" key.

Description	Initial set value	Set the range	Page
Speed setting-expressway	100km/h	No setting, 20-110Km/h	4-58
Speed setting - ordinary road	100km/h	No setting, 20-110Km/h	
Engine speed setting	3,000r/min	No setting, 50-3000r/min	
Rapid acceleration settings	9.9m/s <sup>2</sup>	No setting, 0.5-9.9m/s <sup>2</sup>	
Rapid deceleration settings	9.9m/s <sup>2</sup>	No setting, 0.5-9.9m/s <sup>2</sup>	

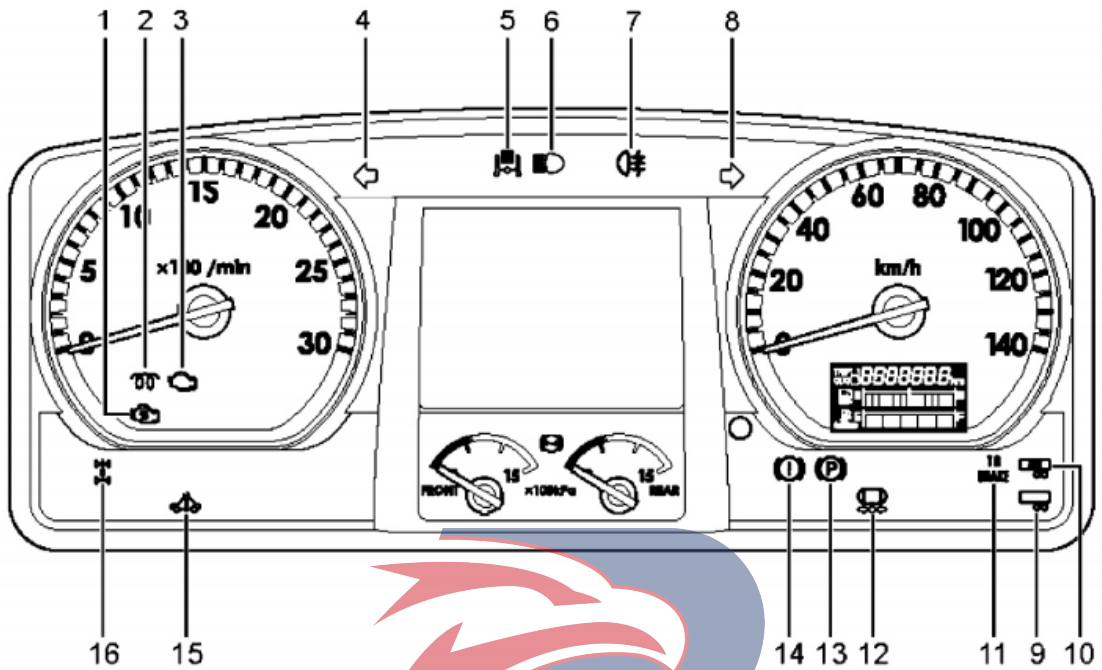
**ECO Setting**

ECO running interval A	
Interval distance	12.3km
Running time	1.2H
Idling time	1.2H
Fuel consumption	12.3L
Average fuel consumption	12L/100Km
Average speed	12.3km/h

Use the bar diagram and figure to indicate the operating condition of TRIP A or TRIP B so as to determine whether the driving is environment-friendly.

On the condition of TRIP A, TRIP B and ODO (odometer), use the "ENTER" and "RETURN" keys switching each mode, the odometer/trip meter will indicate the interval A and interval B respectively.

Warning and Indicator Lamp Layout



No.	Name	Page
1	Operation indicator lamp of warming-up system	4-52
2	QOS indicator lamp★	4-53
3	Engine warning lamp	4-42
4	Turn Signal and Hazard Warning Flasher Indicator Lamp (left)	4-51
5	Exhaust brake indicator lamp	4-52
6	High beam indicator lamp	4-52
7	Fog light	4-53
8	Turn Signal and Hazard Warning Flasher Indicator Lamp (right)	4-51

No.	Name	Page
9	Trailer ABS indicator lamp	4-41
10	Trailer ABS warning lamp	4-40
11	Trailer brake warning lamp	4-50
12	Accessory air pressure warning lamp	4-39
13	Parking brake warning lamp	4-40
14	Brake warning lamp	4-38
15	SVS indicator lamp	4-54
16	Inter-differential lock indicator lamp	4-53

## Brake warning lamp



When the ignition switch is placed at "ON", the light will be on and then be off after about 3s. In addition, the light will be lit in any of following conditions.

**If abnormal.**

- If too low air pressure.

When the warning lamp shows Amber, please consult the ISUZU supplier.

When the warning lamp shows red, the multi-function display screen will indicate the "low pressure" message.

Low pressure → Refer to page 4-39

**WARNING**

- If the lamp is on when a vehicle is moving, immediately park the vehicle at a safe place and conduct the following inspection and maintenance.
  - Shut down the engine.
  - Restart the engine. At this moment, please confirm whether the warning lamp is on or off. If the light is normally lit and then goes out, this shows that all is normal.
  - If the lamp keeps on after above operations but the light is off when starting and driving the vehicle at 15km/h below, this shows that all is normal.
- When the lamp is lit continuous or discontinuous, please contact the ISUZU supplier for inspection and maintenance.

**POWERSTAR**



ABS Fault



The relevant message will be shown on multi-function display screen if ABS system is abnormal.

Low Air Pressure Notes

During reversing



Low air pressure notes  
Please introduce air.

The relevant message will be shown on multi-function display screen if the air pressure is lower than the specified value. Please immediately park the vehicle at a safe place, and check and repair it.

When the words of "low pressure" occur, the brake warning lamp will be lit (red).

Air Pressure Gauge → Refer to page 4-12

Air Pressure → Refer to page 8-17

When driving



Low air pressure notes



Accessory Air Pressure Warning Lamp



This warning lamp comes on and a buzzer sounds when the accessory line air pressure drops below the minimum level. If the lamp comes on while driving, immediately pull safely off the road out of the way of any traffic. Then check the accessory line and take necessary measures.

Air Pressure → Refer to page 8-17

### Parking Brake Warning Lamp



This warning lamp comes on when the parking brake lever is pulled up.

Parking brake lever → Refer to page 4-75



#### CAUTION

- Be careful not to drive the vehicle with the parking brake lever still pulled up.
- When the air pressure is lower than the specified value, the warning lamp may keep on even the parking brake had worked.



#### ADVICE

- The illumination of the warning lamp does not necessarily ensure firm application of the parking brake. The parking brake lever must be sufficiently pulled up and locked.

### Trailer ABS Warning Lamp



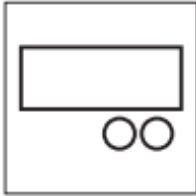
If your vehicle is towing an ABS equipped trailer, this warning lamp comes on when the ignition switch is turned to the "ON" position, and then goes out approximately 2 seconds later. (The warning lamp may go out differently depending on the type of the trailer. For details, refer to the operator's manual for the trailer.) If the warning lamp comes on again after it has gone out or while driving, the trailer ABS has a problem. Please contact the nearest Isuzu Supplier. This warning lamp does not come on when the trailer is not equipped with an ABS.



#### CAUTION

- If the ABS has a problem, the brakes still function normally as ordinary service brakes. However, the ABS functions are no longer available.

Trailer ABS Indicator Lamp



This indicator lamp comes on when your trailer is not equipped with an ABS. Take extreme caution when applying brakes so that the trailer wheels will not lock. Even if your trailer is equipped with an ABS, this indicator lamp comes on when the jumper cable is incorrectly connected. Ensure that the jumper cable is correctly connected.

Oil Pressure Abnormality



**When parking**  
 Oil pressure abnormality  
 Please check the oil level. If the oil level is normal and there is no leakage, please consult an Isuzu supplier.

This message will appear when the engine oil pressure reduces abnormally or the main engine oil filter is jammed.

When this message appears on the multi-function display screen, immediately park the vehicle at a safe place for inspection and maintenance.

Oil Pressure → Refer to page 8-18.



**When driving**  
 Please park the vehicle at a safe place.  
 Oil pressure abnormality



## Charging abnormality

When parking

**Charging abnormality**

Please check the belt.

There is a risk of battery run-down. Please consult an Isuzu supplier.

The relevant message will be shown on multi-function display screen if the charging unit is abnormal. When this message appears frequently or during running, immediately park the vehicle at a safe place for inspection and maintenance.

Charging → Refer to page 8-18.

When driving



Please park the vehicle at a safe place.

**Abnormal charging**

## Engine Warning Lamp



This warning lamp comes on when the ignition switch is turned to the "ON" position, and goes out after the engine starts.

If there is a malfunction in the engine electronic control system, the lamp will come on after the engine starts. If the lamp comes on, please contact the nearest Isuzu Supplier.

- The electronic control system of engine is abnormal, and the lamp is on during the engine rotation;
- The quality of urea SCR system or urea (AdBlue®) is abnormal.

## Fuel filter (drainage)

## When parking

**Fuel filter**

Existence of moisture and deposits in the fuel filter.

Please discharge water.

The relevant message will be shown on multi-function display screen if there is water sedimentation in fuel coarse filter.

Please refer to the appropriate contents of "Drainage of fuel coarse filter" and "Drainage of fuel filter" for drainage, and confirm that the message no longer appears.

## When driving



Please park the vehicle at a safe place.

**Fuel filter****CAUTION**

- If this warning lamp comes on while the engine is running, immediately drain water from the fuel filter. If you still continue driving with the warning lamp on, the fuel injection system may fail.

Drainage of fuel coarse filter → Refer to page 7-99

Drainage of fuel filters → Refer to page 7-62

Exhaust method → Refer to page 8-13

**POWER STAR**

Insufficient engine coolant

When parking



**Insufficient engine coolant**

Supplement engine coolant after confirming no engine coolant leakage. Do not open the auxiliary fuel tank cap at high temperature to avoid scald.

The relevant message will be shown on multi-function display screen if the engine coolant is inadequate. Also the beep sound will be given.

Please immediately park the vehicle at a safe place, and check and repair it.

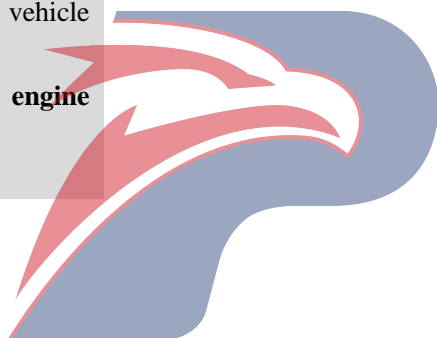
When the warning lamp is on → Refer to page 8-17

When driving



Please park the vehicle at a safe place.

**Insufficient engine coolant**



 **WARNING**

- When the engine coolant is still hot, do not remove the radiator sub-tank cap. Careless removal could result in burns caused by hot vapor being released. Burns may also be caused by boiling water released due to the high temperature of the coolant. Perform inspection, refilling, and replacement of coolant only when its temperature has cooled.

Adding Engine Coolant → Refer to page 7-59

 **CAUTION**

- If you continue to drive the vehicle with the engine overheat warning lamp on steady, the engine may seize up.

 **ADVICE**

- Do not shut down an overheated engine immediately. Otherwise, the engine may seize up. Take appropriate actions for engine overheating.

Check and Treatment during Overheating → Refer to page 8-24

## Overheating

## When parking

**Overheating**

After cold engine running, close the engine and check engine coolant. Do not open the auxiliary fuel tank cap at high temperature to prevent scald.

This warning lamp comes on when the engine has overheated. When the engine overheats, the engine coolant temperature gauge needle reaches the red zone, and the engine overheat warning lamp comes on, and at the same time a buzzer sounds. Immediately pull off to a safe place, and check the vehicle and take necessary actions.

## When driving



Please park the vehicle at a safe place.

**Overheating****WARNING**

- When the engine coolant is still hot, do not remove the radiator sub-tank cap. Careless removal could result in burns caused by hot vapor being released. Burns may also be caused by boiling water released due to the high temperature of the coolant. Perform inspection, refilling, and replacement of coolant only when its temperature has cooled.

Adding Engine Coolant → Refer to page 7-59

**CAUTION**

- If you continue to drive the vehicle with the engine overheat warning lamp on steady, the engine may seize up.

**ADVICE**

- Do not shut down an overheated engine immediately. Otherwise, the engine may seize up. Take appropriate actions for engine overheating.

Check and Treatment during Overheating → Refer to page 8-24

### Engine oil & filter



Engine oil & filter  
Needing to be  
replaced

This shows that the engine oil and filter need maintenance in the near term.

The display interface can be switched by pressing the "RETURN" key on the multi-function display screen. The interface can be re-displayed until the ignition switch is at "ON" position next time.

If the message of "engine oil and filter (Amber)" appears, please contact the ISUZU supplier for inspection and maintenance.

Maintenance data list → Refer to page 7-15

Engine oil → Refer to page 7-38

Engine oil filter → Refer to page 7-43

### Transmission oil



Transmission oil  
Needing to be  
replaced

This shows that the transmission oil and differential oil need replacement in the near term. The display interface can be switched by pressing the "RETURN" key on the multi-function display screen. The interface can be re-displayed until the ignition switch is at "ON" position next time.

If the message of "Transmission oil (Amber)" appears, please contact the ISUZU supplier for inspection and maintenance.

Maintenance Data List → Refer to page 7-15

Manual Transmission Oil → Refer to page 7-106

**POWER STAR**



### Differential oil



Differential oil  
Needing to be  
replaced

This shows that the differential oil needs replacement in the near term.

The display interface can be switched by pressing the "RETURN" key on the multi-function display screen. The interface can be re-displayed until the ignition switch is at "ON" position next time.

If the message of "differential oil (Amber)" appears, please contact the ISUZU supplier for inspection and maintenance.

Maintenance Data List→Refer to page 7-15

Differential Oil → Refer to page 7-108

### Fuel filter



Fuel filter  
Needing to be  
replaced

This shows that the fuel coarse filter on chassis and the fuel filter on engine need replacement in the near term.

The display interface can be switched by pressing the "RETURN" key on the multi-function display screen. The interface can be re-displayed until the ignition switch is at "ON" position next time.

If the message of "fuel filter (Amber)" appears, please contact the ISUZU supplier for inspection and maintenance.

Maintenance Data List→Refer to page 7-15

Fuel Coarse Filter→ Refer to page 7-98

Fuel Filter→ Refer to page 7-62

## Air dryer's desiccant



Air dryer's  
desiccant  
Needing to be  
replaced

This shows that the air dryer needs replacement in the near term.

The display interface can be switched by pressing the "RETURN" key on the multi-function display screen. The interface can be re-displayed until the ignition switch is at "ON" position next time.

If the message of "compressed air dryer (Amber)" appears, please contact the ISUZU supplier for inspection and maintenance.

Maintenance Data List→Refer to page 7-15

Air Dryer→Refer to page 7-97

## Power steering fluid



Power steering  
fluid  
Needing to be  
replaced

This shows that the power steering oil needs replacement in the near term.

The display interface can be switched by pressing the "RETURN" key on the multi-function display screen. The interface can be re-displayed until the ignition switch is at "ON" position next time.

If the message of "power steering fluid (Amber)" appears, please contact the ISUZU supplier for inspection and maintenance.

Maintenance Data List→Refer to page 7-15

Power Steering Fluid→ Refer to page 7-110

## Tire replacement



Tire replacement  
Needing to be  
replaced

This shows that the tire needs replacement and rotation in the near term.

The display interface can be switched by pressing the "RETURN" key on the multi-function display screen. The interface can be re-displayed until the ignition switch is at "ON" position next time.

When the interface of "tire replacement" appears, please or replace the tire.

Tire Replacement→ Refer to page 7-80

## Starter



Starter  
Needing to be  
replaced

This shows that the starter motor needs maintenance in the near term.

The display interface can be switched by pressing the "RETURN" key on the multi-function display screen. The interface can be re-displayed until the ignition switch is at "ON" position next time.

If the message of "starter gear oil (Amber)" appears, please contact the ISUZU supplier for inspection and maintenance.

**POWER STAR**

Maintenance Data List→Refer to page 7-15

## Abnormal communication system

When parking

Communica tion Systems
------------------------------

**Abnormal communication system**

Please shut down the engine and then restart it. If the interface still appears, please consult an Isuzu supplier.

When there is a communication error in the surrounding system of the instrument and instrument, it will be displayed on the multi-function display screen.

At this point, the water temperature gauge stop running, the alarm function of the instrument also cannot be normal operation.

Please park the vehicle at a safe place, shut down the engine and then restart it.

If the interface still appears, please consult an Isuzu supplier.

When driving

Communi cation Systems
------------------------------

**Communication**

Please park the vehicle at a safe place.

## Trailer Brake Warning Lamp

TR BRAKE
-------------

**Semi-trailer Tractor**

When the trailer hand brake lever is pulled, the trailer brakes are applied. At the same time, this warning lamp comes on.

**Trailer Parking Brake Lever**

# POWERSTAR

## Refueling



## Refueling

The relevant message will be shown on multi-function display screen if the fuel is inadequate.



## ADVICE

- When the message of "refueling" appears, please refill the fuel as soon as possible.
- After the fuel is used up, the air shall be discharged.

Fuel Meter → Refer to page 4-14

## Turn Signal and Hazard Warning Flasher Indicator Lamp



Either of these indicator lamps flashes when the turn signal switch is operated irrespective of the position of the ignition switch.

Both indicator lamps flash when the hazard warning flasher switch is operated irrespective of the position of the ignition switch.

Turn Signal Light Switch → Refer to page 4-66



## ADVICE

- These indicator lamps will not flash if the bulbs are blown, or may flash abnormally if bulbs of incorrect wattage are used.

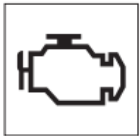
**POWERSTAR**

## High Beam Indicator Lamp



This lamp will be on in the case of high lighting.

## Operation indicator lamp of warming-up system



This light will be on after pressing the warming-up switch. After the light is on, the warming-up mode will be activated.

Warming-up Switch → Refer to page 4-63



## Exhaust brake indicator lamp



The lamp will come on when the exhaust brake switch is on and the exhaust brake operates.

Exhaust Brake Switch → Refer to page 4-96

## Fog light



This light will be on when the lighting and safety warning are activated in rainy or foggy day.

Fog Light Switch → Refer to page 4-67

## QOS indicator lamp ★



Vehicle with QOS

When the ignition switch is placed at "ON", the lamp will be on (1~15s) and then be off after warming-up.

# POWERSTAR

## Inter-Differential Lock Indicator Lamp ★



This indicator lamp comes on when the inter-differential lock switch is placed in the "ON" position.

Inter-Differential Lock Switch Refer to page 4-72

SVS Indicator Lamp



The SVS indicator lamp will come on when the ignition switch is in the "ON" position and the engine is not started, to let you know the bulb is working.

The indicator lamp will go off after the engine starts.

On a model equipped with a speed limit device, this indicator lamp normally will come on when the ignition switch is turned to the "ON" position.

And the indicator lamp keeps lighting for 15 seconds, and then will go off after flashing three times.

If the indicator lamp comes on during operation, immediately contact the Isuzu Supplier for inspection.



PTO running ★



PTO running

The relevant message will be shown on multi-function display screen in the case of PTO operation.

POWERSTAR

PTO Refer to page 4-100



## Urea replenishing

When parking

**Urea replenishing**

Please replenish the designated urea. When there is no urea, the engine cannot be restarted.

When the remaining urea (AdBlue®) is at level 1, the relevant message will be shown on multi-function display screen.

Adjust the ignition switch to the position "LOCK" and then fill the urea (AdBlue®). After filling, adjust the ignition switch to the position "ON" and confirm that such message doesn't appear on multi-function display screen.

When driving

**Urea replenishing****ADVICE**

- When this message appears, please fill 5L above of urea (AdBlue®).

Operation of urea (AdBlue®)→ Refer to page 2-36

Whether to Use the Specified Urea (AdBlue®)→ Refer to page 2-36

Filling of Urea (AdBlue®)→ Refer to page 2-37

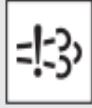
Urea tank→Refer to page 3-9

When the Urea (AdBlue®) is Exhausted→ Refer to page 8-16

**POWERSTAR**

### Urea injection abnormality

When parking



**Urea injection abnormality**

If the urea injection system is abnormal, please consult ISUZU supplier.

If the urea SCR system is abnormal, the relevant message will be shown on multi-function display screen and the engine will light the warning lamp. After the message of "abnormal urea injection" appears, the urea SCR system will go wrong if the driver continues driving without proper treatment.



#### ADVICE

- After the message of "abnormal urea injection" appears, the urea SCR system will go wrong if the driver continues driving without proper treatment. Please contact the ISUZU supplier for inspection and maintenance.

When driving



**Urea injection abnormality**

### Load limiting

When parking



**Load limiting**

The current oil temperature is high; in order to protect the engine, the output has been limited. When the oil temperature returns to normal, load limitation will be eliminated.

The relevant message will be shown on multi-function display screen if the engine oil temperature is too high.

When this message appears, the output will be limited to protect engine. When the oil temperature recovers normal, the load limit will be relieved and this message will disappear accordingly.

When driving



**Load limiting**

## Abnormal voltage

Voltage abnormality (relatively low voltage)



**Relatively low voltage**

The relevant message will be shown on multi-function display screen if the battery voltage is too high or low. If this message occurs, immediately contact the ISUZU supplier for inspection and maintenance.

Voltage abnormality (too high voltage)



**Too high voltage**

## Forget to relieve the hand brake



**Forget to relieve the hand brake**

If the hand brake remains in effect during vehicle running, the relevant message that the hand brake is not relieved will be shown on multi-function display screen. Immediately park the vehicle and release the parking brake.

Energy saving advice

Energy saving advice
Please slow down!

This message will appear when the current vehicle speed is higher than the set speed in "speed settings - general" or "speed settings - expressway" in "energy saving advice settings". This message will disappear when the current vehicle speed is lower than the set speed.

User Setting→ Refer to page 4-34

Energy saving advice
Please reduce the engine speed!

This message will appear when the current engine speed is higher than the set value in "engine speed settings" in "energy saving suggestions settings". This message will disappear when the current engine speed is lower than the set value.

User Setting→ Refer to page 4-34

Energy saving advice
Rapid acceleration!

This message will appear when the current acceleration is higher than the set value in "rapid acceleration" in "energy saving advice settings". This message will disappear when the current acceleration is lower than the set speed.

User Setting→ Refer to page 4-34

Energy saving advice
Rapid increase speed!

This message will appear when the current acceleration is higher than the set value in "rapid deceleration" in "energy saving advice settings". This message will disappear when the current acceleration is lower than the set speed.

User Setting→ Refer to page 4-34

Energy saving advice
Long idle idling

After the "long-time idling settings" in "energy saving advice settings" is set as "set", the relevant message will be shown on multi-function display if the idling operation remains for 5 min above. This message will disappear after driving the vehicle.

User Setting→ Refer to page 4-34

Energy saving advice
Please disengage the auxiliary brake

When the "auxiliary brake settings" in "energy saving advice settings" is set as "set" and the engine retarder switch or permanent magnet retarder switch is turned on during vehicle running, the relevant message will be shown on multi-function display if the vehicle is deemed as the invalid deceleration and the increase of oil consumption. This message will disappear after turning off the engine retarder switch or permanent magnet retarder switch.

User Setting→ Refer to page 4-34

Warning Buzzer ★

A warning buzzer sounds under the following conditions.


Warning	Buzzer pattern	Location			Condition
		In cab	Outside of vehicle left side	Outside of vehicle rear side	
Low air pressure	Continuous beep	●	×	×	Parking brake is released when air pressure is below specification.
Low accessory air pressure	Continuous beep	●	×	×	Accessory line air pressure is below specification.
Power cab tilt in operation	Long, repeated beeps	×	●	×	* To tilt the cab up, pump lever is placed in "tilt up" position. * To lower cab, pump lever is placed in "lower (drive)" position.
Backing up	Continuous beep	×	×	●	Gearshift lever is placed in "R" position.
Engine overheat	Continuous beep	●	×	×	Engine has overheated.
Coolant level	Continuous beep	●	×	×	Engine coolant level is too low.
Abnormal injection of urea	Continuous beep	●	×	×	When the message of "abnormal urea injection" appears and no proper treatment is done.

● : Long lasting alarm      × : No alarm

**CAUTION**

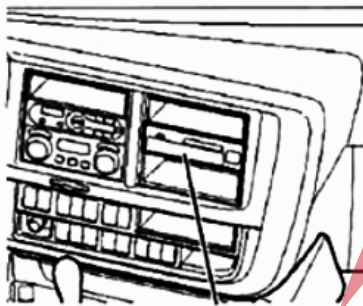
- The warning buzzer may not sound if there is a problem with the system. If this occurs, the system needs to be inspected. Please contact the nearest Isuzu Supplier.

**NOTE**

- In the case of lighting switch at “ ” or “ ”, the outside alarm volume can be reduced (only for left side).

**DVR ★**

STD/LOW

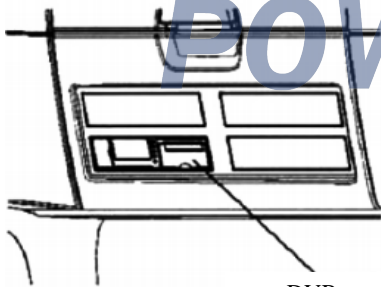


DVR

It is used to record vehicle speed, running time, running distance and other information. This is helpful for energy saving management and running management.

Please refer to *DVR Operation Instructions* in annex for the operation method of tachograph.

EXT



DVR

**ADVICE**

- Please shut down the engine before opening the DVR and changing the printing paper. Otherwise, the DVR may be damaged.

**Switch**

• Ignition Switch	4-62
• Warming-up Switch	4-63
• Idling Control Knob	4-64
• Combination Switch	4-65
• Fog Light Switch	4-67
• Hazard Warning Flasher Switch	4-67
• Windshield Wiper and Windshield Washer Switch	4-68
• Horn Button	4-70
• Rearview Mirror Heating Switch	4-70
• Inter-Differential Lock Switch ★	4-72



**POWERSTAR**

## Ignition Switch



### WARNING

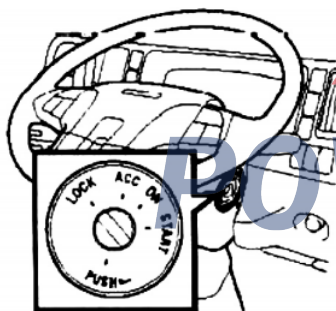
- Please retain the switch at ON during running. If placed at "ACC", the engine will stop operation, the operating force of steering wheel and clutch pedal will increase, and the brake will lag in response. This is very dangerous. If placed at "LOCK", the steering wheel will be fixed that it cannot be operated. This may cause danger.



### ADVICE

- After Engine Starting Method, do not turn the ignition switch to the "START" position. Otherwise, the starter motor may be damaged. Using electronic devices such as the audio system for an extended time period with the engine stopped can completely discharge the battery.

## Ignition Switch



**LOCK:** Lock is in the position fully counterclockwise. In this position, the key can be inserted or removed. Remove the key, and turn the steering wheel until it locks. The steering wheel will be locked to help prevent theft.

**ACC:** Accessory is in the first position clockwise. In this position, the audio and other accessories can be used with the engine stopped.

**On:** This "ON" position is in the second position clockwise. The key stays in this position while the engine is running. This position is also used for preheating before engine start.

**START:** Start is in the position furthest clockwise. The engine is started in this position.



### Warming-up Switch



It is used to improve the heating effect of a parked vehicle at low temperature. Please place the warming-up switch at "OFF" during vehicle running (this may cause the increased oil consumption and noise). While pressing the warming-up switch after engine start, the warming-up working indicator light in dashboard will be lit and the warming-up system will start operation.

After warming-up, please press this switch again to adjust the warming-up system to "OFF". At this moment, the working indicator lamp of warming-up system will go out.

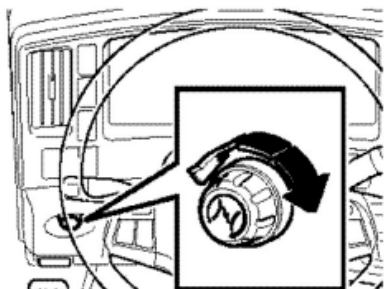
Indicator lamp of warming-up system



#### NOTE

- The warming-up system can only be used in the case of low temperature and parked vehicle.
- The warming-up system will drive the exhaust throttle valve to operate, so the engine noise will change accordingly. At this moment, the vibration and engine noise can be reduced if the engine speed is adjusted by idling control knob.
- With the warming-up button at "ON", the warming-up system will stop operation when the engine speed is adjusted to 600r/min above by idling control knob.
- After the engine is adequately warmed up or during the vehicle running, the warming-up system cannot start even if the warming-up button is pressed. In addition, the warming-up system will automatically stop operation after operation for long.
- The warming-up system is working after engine start soon, the rough idling may be caused.

### Idling Control Knob



It is used to start the warming-up system of engine (heating). After rotating right the knob, the engine speed can increase automatically even if the accelerator pedal is not stepped down. When the warming-up system doesn't work, be sure to rotate left the knob to its limit.



#### WARNING

- The carbon monoxide poisoning may be caused at a poorly ventilated place. Be sure to start engine and warming-up system at a well-ventilated place.
- Driving the vehicle with idling speeds higher than normal is dangerous because it could cause abrupt forward movement. It will also consume more fuel during subsequent driving and shorten the clutch life.
- Be sure to use the idling control knob to adjust the engine speed to its minimum value and then start the vehicle.

Adjusting angle

300°



#### ADVICE

- The idling control knob is used to increase the efficiency of the heater and/ or the defroster during engine idling, or to manually increase the engine idle speed.
- The adjusting angle range of idling control knob is 300°. The vehicle fault may be caused if this range is exceeded, so this range cannot be exceeded.



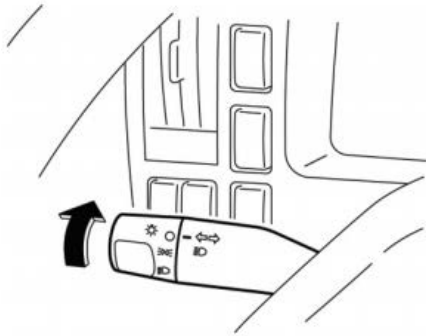
#### NOTE

- It is used to stabilize the engine speed when the engine speed is unstable after engine start.

Engine Starting Method →Refer to page 4-4

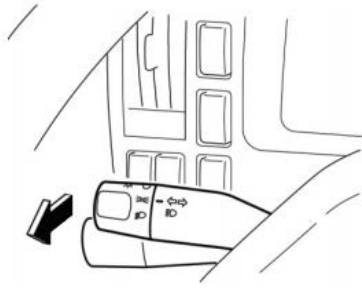
Controller

Light Control Switch



The lamplight each position is shown below.

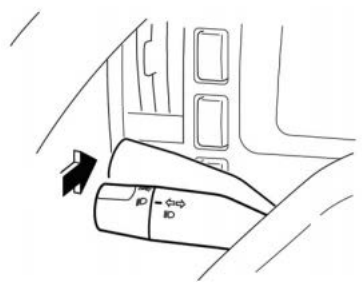
Name	Position	
Headlight	OFF	ON
Clearance light		
Taillight		
License plate light	ON	
Illumination light control		
Front end outline marker light		



**Flashing**

While pulling the control lever, the flashing will be activated (with Headlight high beam). This flashing can be used in the case of overtaking or other operations which need to remind the front vehicle. Meanwhile, the high beam indicator lamp will be lit.

High beam indicator lamp

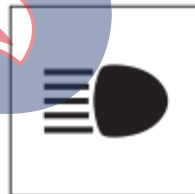


**High beam**

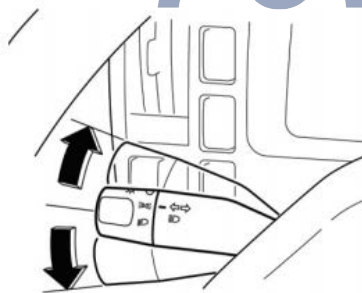
While moving down the control lever with the Headlight lit, the direction of Headlight will be changed upwards.

While turning on high beam lamp or flashing, the high beam indicator lamp will be lit.

High beam indicator lamp



Turn Signal Light Switch (Turn Signal Light)



It is used to remind the adjacent vehicles in the case of lane changing or turning. While moving the control lever to L (left) or R (right), the turn signal indicator lamps at the front, rear and side parts of vehicle will start flickering. In the case of vehicle turning, the buzzer will give beep sound and the turn signal indicator lamp will flicker. The control lever will return automatically after the steering wheel is recovered. Otherwise, please return it by hand. In addition, it is allowed to lightly press the control lever by hand to complete lane changing.

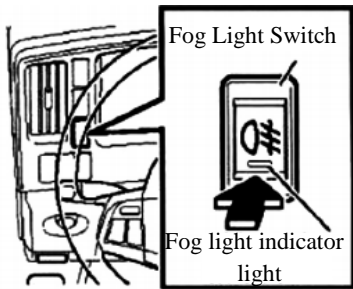
Turn Signal Light



 **ADVICE**

- Do not operate the turn signal lights for an extended time period with the engine stopped. Otherwise, the battery may go dead, making it impossible to start the engine.

Fog Light Switch

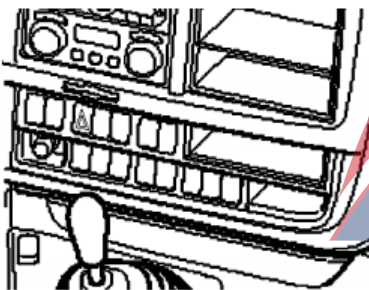


With the light control switch positioned in "☰" or "☷", when this switch is pressed, the fog lights come on and the fog indicator light comes on. To turn off the lights, press the switch again. The fog lights are useful when forward visibility is poor such as in fog.

 **WARNING**

- When replacing a fog light bulb, do not use one of a larger wattage than the specified wattage. Otherwise, the wiring may be burned.

Hazard Warning Flasher Switch



The hazard warning flasher is used to signal other vehicles that your vehicle is stationary on the road because of accident or component failure. With the ignition switch in any position, when this switch is pressed, all of the turn signal lights and the turn signal indicator lights flash to signal emergency. To turn off the hazard lights, press the switch again.

Hazard warning lamp



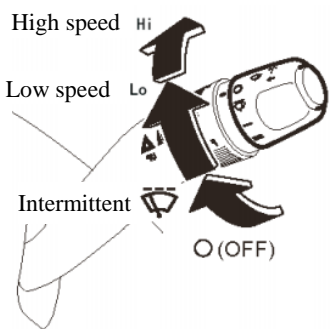
 **ADVICE**

- Do not leave the hazard warning flasher operating for an extended time period with the engine stopped. Otherwise, the battery may go dead, making it impossible to restart the engine.

## Windshield Wiper and Windshield Washer Switch

To use the windshield wiper and washer switches, the ignition switch must be in the "ON" position.

### Windshield Wiper Switch



ADVICE

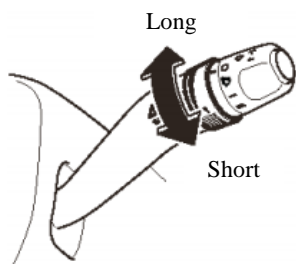
- The safety system may work to stop the wiper when excessive load is applied on the motor. In this case, turn the switch to the "OFF" position and, a few minutes later, check to see if the wiper is back to normal operation. If the wiper frequently stops operation, refrain from using it and contact the nearest Isuzu Supplier.
- Before operating the wiper, ensure that the wiper rubber is not stuck on to the windshield. If the wiper rubber is stuck on to the windshield and you still operate the wiper, the wiper may break or the wiper motor may fail.
- Do not operate the wiper on a dry windshield surface. Otherwise, the windshield surface may sustain damage. Always use the windshield washer when wiping a dry glass surface.




The windshield wiper switch has the following positions, which correspond to the states of the wiper.

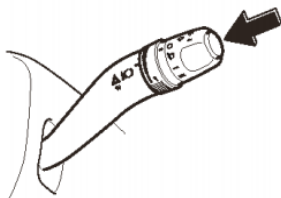
Lever position	○	☒	Lo	Hi
Wiper state	Stop	Intermittent (Light rain)	Low speed (Moderate rain)	High speed (Heavy rain)

## Interval time adjusting button



It is used to adjust the interval time of wiper when the wiper switch is placed at "  ".

## Windshield Washer Switch



Windshield washer fluid is sprayed over the windshield when this switch is pressed. The wiper also operates if your vehicle features an intermittent windshield wiper function. The windshield washer is used when wiping the windshield clean.

 CAUTION

- At extremely low temperatures, washer fluid may freeze on the windshield after being sprayed, obstructing your forward view. In such a case, warm up the windshield before using the windshield washer.

# POWERSTAR

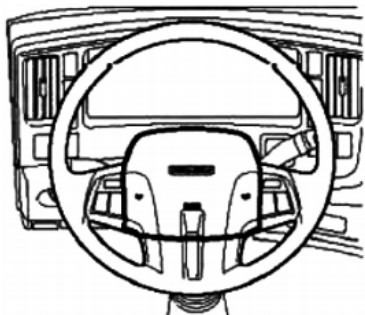


## ADVICE

- If windshield washer fluid does not come out in sufficient quantity, immediately release the switch. Otherwise, the windshield surface may sustain damage.
- Do not hold the switch pressed for more than 30 seconds. Otherwise, the washer pump may sustain damage.
- If windshield washer fluid does not come out, release the windshield washer switch immediately. Otherwise the motor may seize up.
- When the vehicle is used in a cold-climate region, use washer fluid with appropriate concentration for the season to prevent frozen fluid.

Windshield Washer Fluid → Refer to page 7-113

### Horn Button



To sound the horn, press the pad with a horn symbol on the steering wheel.

### Rearview Mirror Heating Switch



This switch can control ON and OFF of window heating. It is used to remove the frost fog from rearview mirror.

After the switch is placed at "ON", the working indicator light on the switch will be on.

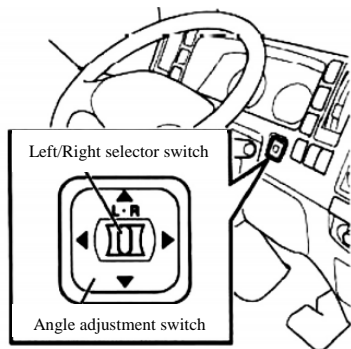


#### ADVICE

- Never use this switch before engine start. The heating of rearview mirror will consume and even use up the battery power.
- Please disconnect the heating switch after removing frost fog.



## Remote Control Mirror Switch



The remote control mirror switch is active only when the ignition switch is in the "ACC" or "ON" position.

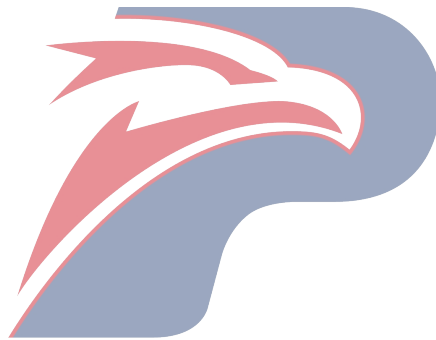
## Adjustment

1. Press the left/right selector switch on the "LO" or "R" side to move the mirror to the desired position.
2. Press the angle adjustment switch to adjust the mirror angle.



## ADVICE

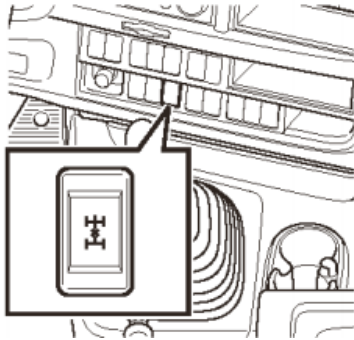
- Do not try to forcefully move the mirror surface by hand. Otherwise, the mirror motor may sustain damage.



# POWERSTAR

## Inter-Differential Lock Switch ★

Vehicle with center differential lock\*

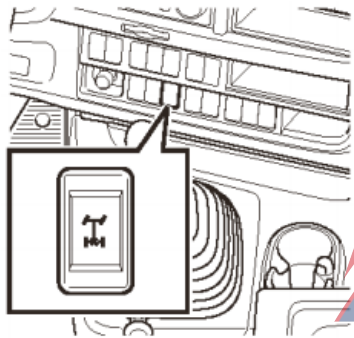


Use the inter-differential lock when one or more than one of the tires on the drive axle is on a muddy or sandy road surface, frozen and sloped road surface, or other slippery road surfaces. Stop the vehicle. Press the switch on the "ON" side. The inter-differential lock engages and the inter-differential lock indicator light comes on. To disengage the inter-differential lock, press the switch on the "OFF" side. The inter-differential lock indicator light goes out.

Inter-differential lock indicator lamp



Vehicle with left and right differential lock \*



# POWERSTAR

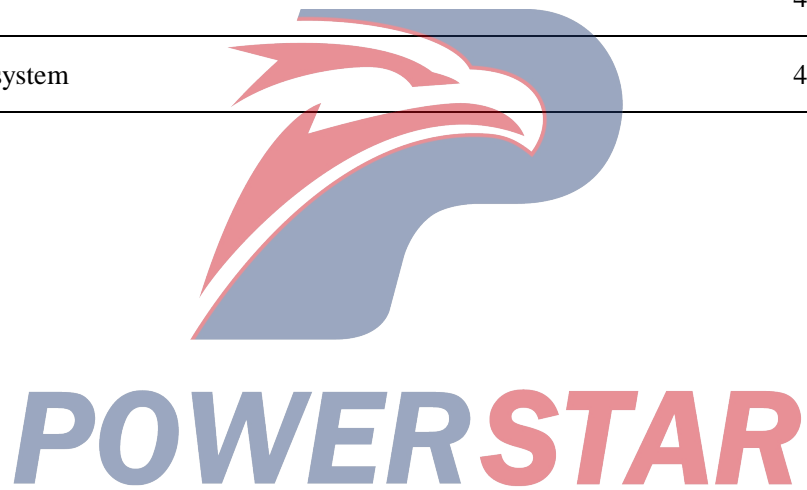


## CAUTION

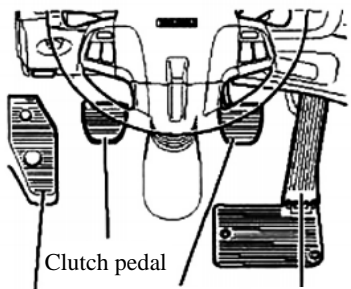
- The differential may develop a problem if the rear wheels are allowed to spin repeatedly without using the inter-differential lock.
- To engage the inter-differential lock, stop the vehicle and then press the inter-differential lock switch on the "ON" side.
- With the inter-differential lock engaged, the turning radius of the vehicle increases.
- Do not engage the inter-differential lock unless needed. Otherwise, tire wear, noise and vibration will result.

## DRIVING CONTROLS

• Pedals	4-74
• Parking Brake Lever	4-75
• Transmission	4-78
• Automatic Cruise Control ★	4-81
• Adjustable Speed Governor ★	4-87
• ABS	4-96
• PTO*	4-98
• Urea SCR system	4-100



## Pedals



Foot pedal    Brake pedal    Accelerator pedal



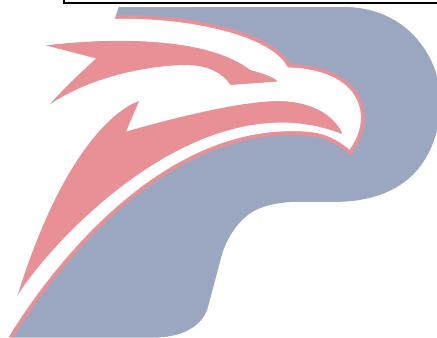
## WARNING

- A can or bottle rolling on the floor may prevent brake pedal operation if it is caught under the pedal. This is very dangerous. Lay a floor mat correctly. An incorrectly installed floor mat would hinder free movement of each pedal.



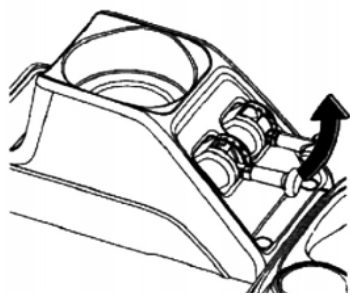
## ADVICE

- Do not race the engine; engine components as well as fuel economy may be badly affected.
- Do not drive with your foot resting on the clutch pedal. Doing so may damage the clutch.



# POWERSTAR

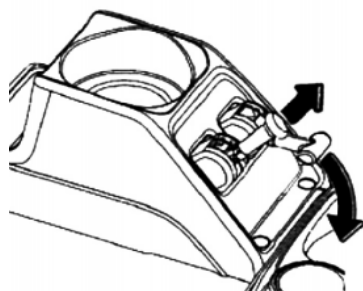
### Parking Brake Lever



The parking brake can be activated while pulling up the brake lever. Also, the parking brake warning lamp will be on.

To push back the brake lever, please push the brake lever while pulling up.

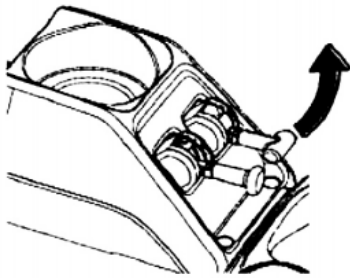
Parking brake warning lamp



#### CAUTION

- When parking or stopping your vehicle, securely lock the parking brake lever by pulling it up to the lock position, and make sure that the vehicle does not start moving.
- When parking the vehicle on a slope, use the parking brake and chocks in combination. Unless the parking brake is fully released during driving, a fault and/or a fire may be caused.
- Except in an emergency, do not apply the parking brake until the vehicle has come to a complete stop. Applying the parking brake before the vehicle has stopped can cause the tires to lock or the vehicle to spin, possibly causing an accident. After using the parking brake during driving, be sure to check if any failure has been caused.

## Trailer Parking Brake Lever ★



## Semi-trailer tractor

The braking degree of trailer will same with the angle of brake lever. The stop light and trailer brake warning lamp will be on. In the case of going downhill, this brake is also to be used to prevent the trailer pushing the tractor to go ahead.

Trailer brake warning lamp

Trailer  
Braking



## CAUTION

- Never use the trailer hand brake while parking.
- If the trailer brake is applied, immediately pull back the brake lever to "OFF" position.
- Never use the trailer hand brake in the case of parking a hill.


 A stylized graphic of a horse's head in profile, facing right. The head is blue with a red and white stripe running along the top of the neck and forehead.
 

# POWERSTAR



## ADVICE

- The illumination of the parking brake warning lamp does not necessarily ensure firm application of the parking brake. The parking brake lever must be sufficiently pulled up to the lock position.
- If the parking brake has no effect when the parking brake lever is pulled, then the parking brake has failed even if the warning lamp comes on and goes off normally.
- If the parking brake warning lamp remains on when the parking brake lever is released, a brake failure or a drop in air pressure may be the cause. Check the air pressure for correct level.
- If the air pressure level is abnormal, immediately contact the nearest Isuzu Supplier.
- If a vehicle has to be moved (when it causes traffic jam), forcibly release the parking brake when the air pressure recovers normal, move the vehicle to a safe place, provide front and rear wheels with tire holder, and contact the ISUZU supplier.

Air Pressure Gauge → Refer to page 4-12

Brake Warning Lamp → Refer to page 4-38

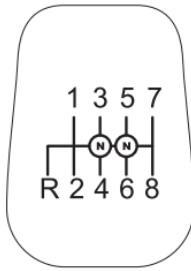


## NOTE

- When you pull up on the parking brake lever, the spring force applies the rear wheel brakes, causing them to work as a parking brake.
- When the air pressure in the brake chamber drops below the limit, the rear wheel brakes are automatically applied regardless of the parking brake lever position.
- If this happens, it becomes difficult to release the parking brake unless the vehicle's air pressure is returned to a normal level.

# POWERSTAR

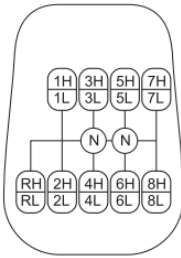
## Manual transmission gear (8/16 speed)



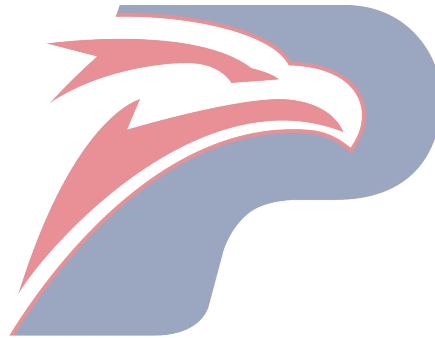
ZF 8 gear transmission

There are 8 forward gears and one reverse gear (R) for option. The low gear includes 4 gears from "first (1) gear" to "fourth (4) gear". The high gear includes 4 gears from "5 (fifth gear)" to "8 (eighth gear)".

It is necessary to completely step down the clutch pedal before selecting a gear.



ZF 16 gear transmission



# POWERSTAR

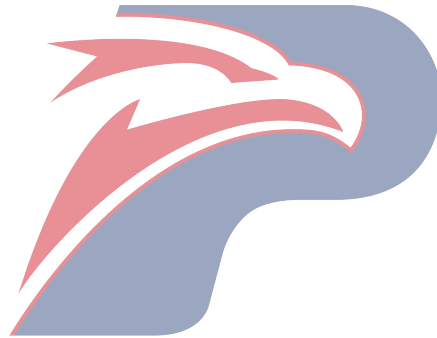


**CAUTION**

- Shift into "R (reverse)" only when the vehicle has come to a stop completely. Doing otherwise may cause damage to the transmission. Shift into the reverse gear from a forward gear or vice versa only after bringing the vehicle to a complete stop. Fully depress the clutch pedal before operating the gearshift lever.
- To change gear up or down, only can two gears. Otherwise the transmission synchronizer may had damage.
- In order to avoid the damage on transmission and engine, please applying brake to keep maximum engine speed by each gear position.

**ADVICE**

- Use the 1st gear for normal starting.

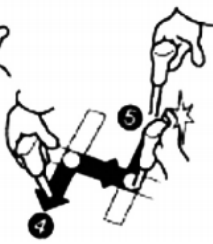


# POWERSTAR

Shifting up



Shifting down



When moving the gearshift lever from the 3rd/4th gear (3/4) gate into the 5th/6th gear (5/6) gate or vice versa, tap the lever with your palm lightly (do not use undue force) to move the lever quickly toward the target gear position.

**CAUTION**

- Fully depress the clutch pedal before operating the gearshift lever.
- Do not change to the low range at 30 km/h (19 MPH) or higher speeds. Doing so may cause a failure in the transmission.
- The gearshift lever is harder to move when the transmission temperature is still low. If high-to-low range group switching is impossible when making a downshift from the 5th/6th gear (5/6) gate to the 3rd/4th gear (3/4) gate, slow down the vehicle and then select a gear appropriate for the lower vehicle speed.

**ADVICE**

- If low-to-high range switching is impossible, you can still drive the vehicle. Have your vehicle inspected at the nearest Isuzu Supplier promptly.
- If high-to-low range switching becomes impossible, you cannot drive the vehicle. Immediately stop your vehicle at a safe place and contact the nearest Isuzu Supplier.

**POWERSTAR**

Automatic Cruise Control ★

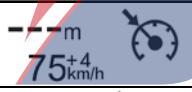


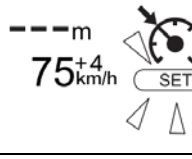

The system can keep the vehicle hold speed (over 40km/h) when off the accelerator pedal. Please use it on traffic is smoother highway only.

 WARNING

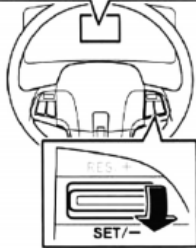
- In order to avoid danger, never use this system on following roads:
  - Urban road and other roads with complex traffic.
  - Sharp turn or steep slope.
  - Frozen or snowy road or other slippery roads.

Auto cruise display content

Depending on the situation, the cruise control system will display the following on the multimedia display.

Name		Display picture	Meaning
Standby	Speed is less than 40km/h		Auto cruise system is in standby mode
	Speed is higher than 40km/h		
Automatic cruise system is in working			Automatic cruise system is in working condition
Automatic cruise system temporarily canceled			Depressing the accelerator pedal while the cruise control is in operation temporarily cancels the cruise ("SET" flashes)
Automatic cruise mode		 Automatic cruise mode	Press the main switch, switch to automatic cruise mode

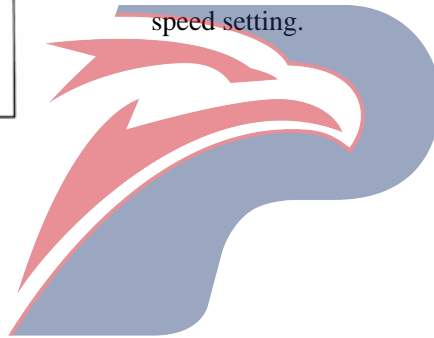
## Set the preset speed



① Press the main control switch to switch to automatic cruise mode. At this moment, the multimedia display will show "main menu of automatic cruise". Also, the message of "automatic cruise mode" will be shown within seconds.

② Step the accelerator pedal to adjust the preset speed (over 40km/h). If the preset speed is within the permissible range, the multimedia display will show "STANDBY".

③ While pressing the set switch, the multimedia display will show "SET" and "Vehicle speed settings" and the beep sound will be given. The adaptive cruise mode can be used in driving after completing vehicle speed setting.



# POWERSTAR

## Temporarily accelerated

In the process of automatic cruising, such as overtaking need temporary acceleration, you can depress the accelerator pedal. After the accelerator pedal is released, the vehicle speed will automatically reduce to preset speed.

## Change the preset speed

**Increase the preset speed**

Use the Resume to increase the speed, and the cruise preset speed displayed on the multimedia display will also increase.

Press and hold the Resume to gradually increase the preset speed. 5km/h can be increased at each time.

When the preset speed is reached a suitable value, release the switch to complete the operation.

**Slightly increase the preset speed**

Press the Resume and release immediately, each time the preset speed can be increase by 1km / h.

**Reduce the preset speed**

Use the Resume to decrease the speed, and the cruise preset speed displayed on the multimedia display will also decrease.

Hold down the Resume, the preset speed will be gradually reduced, each reduced by 5km / h.

When the preset speed is reached a suitable value, release the switch to complete the operation.

**Slightly lower the default speed**

Press the Resume and release immediately, each time the preset speed can be reduced by 1km / h.

### Release the automatic cruise



Press the main switch again to release. At this point "Auto Cruise Main Menu" mark disappears. Automatic cruise will be automatically released in the following cases.

- When the brake pedal is depressed.
- When the clutch pedal is depressed.
- When the vehicle speed reduces to 40km/h below.
- When the engine control system is in failure.
- When pressing down the cancel switch.

Cancel Switch ★→ refer to the page 4-87



#### ADVICE

- When the automatic cruise system is not used, it is necessary to relieve the automatic cruise state.

### Recover the automatic cruise

If the automatic cruise is relieved for following reasons, the automatic cruise state can be recovered by pressing the Resume. When the Resume is released, the multimedia display will show "SET".

- When the brake pedal is depressed
- When the clutch pedal is depressed
- When pressing down the cancel switch



#### ADVICE

- The automatic cruise state cannot be recovered after the vehicle speed reduces to 40km/h below. Please step the accelerator pedal to increase vehicle speed to 40km/h above and then press the Resume.

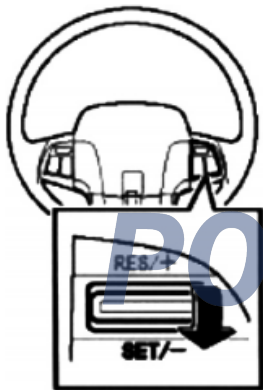
## Main control switch ★



It is used to activate/deactivate the automatic cruise control function.

Set the preset speed → Refer to page 4-82

## Setting switch ★



It is used to set the preset speed or reduce the preset speed during the driving with automatic cruise.

Set the preset speed → Refer to page 4-82

Change the preset speed → Refer to page 4-83

**POWERSTAR**

## Resume switch ★



After the automatic cruise is relieved by stepping the brake pedal, this switch can be used to recover to the automatic cruise. In addition, it is also used to increase the preset speed.

Change the preset speed → Refer to pages 4-83

## Cancel switch ★



It is used to temporarily relieve the automatic cruise.

Relieve the automatic cruise → Refer to page 4-84



**POWERSTAR**



## Adjustable speed limiter ★

It is used to set the maximum speed (about 40km/h~ set value of speed limiter) of a vehicle. When the speed limiter operates, the vehicle speed can be automatically limited within preset speed.



## CAUTION

- The adjustable speed limiter is not influenced by ambient and road environments. Please pay attention to the speed of the vehicle at any time during driving and maintain a sufficient distance from the preceding vehicle.
- When the multimedia display shows "SET", please start after the upper limit of preset speed has been reached.
- When it is set at parking or a vehicle speed less than 40km/h, the system will automatically set the maximum vehicle speed as 40km/h.
- It is necessary to close the adjustable speed limiter before delivering the vehicle to others for use. Driving without the governor activated may cause an accident.
- Never adjust the maximum speed lower than the minimum level when running on expressway or special lane for motor vehicle. Failure to select a suitable vehicle speed based on the road conditions can cause accidents.



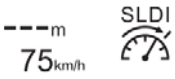
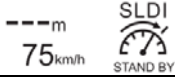



## NOTE

- The main control switch, set switch, Resume and cancel switch are used for automatic cruise.

# POWERSTAR

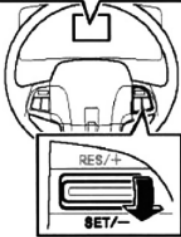
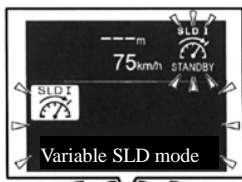
### Indications of Adjustable Speed Limiter on Multimedia Display

The adjustable speed limiter will show following information on multimedia display as the case may be.

Name	Display picture	Meaning
The adjustable speed limiter fails to operate.		There is fault or the cancel switch is pressed.
Standby		The adjustable speed limiter is on standby.
The adjustable speed limiter is operating.		The adjustable speed limiter is operating (the maximum vehicle speed has been set).
The adjustable speed limiter is temporarily closed.		If stepping on the accelerator pedal after its limit is reached, this may cause the temporary deactivation of adjustable speed limiter ("SET" flicker).
Variable SLD mode		While pressing the main control switch, it is allowed to switch to adjustable speed limiter mode.

# POWERSTAR

## Set The Upper Limit of Preset Speed (During Running)



① While pressing the main control switch, it is allowed to switch to adjustable speed limiter mode. Here the multimedia display will show the “adjustable speed governor main menu”. In addition, the screen will show "adjustable SLD I mode" or "adjustable SLD II" mode within seconds upon the select switch position of adjustable speed limiter.

Adjustable speed governor selection switch → Refer to page 4-94

② Use the accelerator pedal to increase or reduce the preset speed. When the appropriate speed (about 40km/h above) is reached, press the set switch to complete setting.

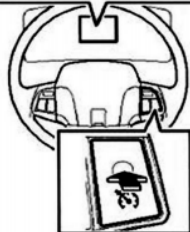
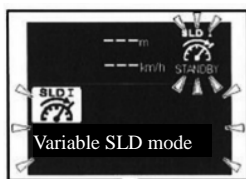
At this moment, this speed will be set as the upper limit of vehicle speed. Meanwhile, the multimedia display will show "SET" and "Set speed". Subsequently, the vehicle speed will be limited within the preset speed whether the accelerator pedal is stepped anywhere.

## NOTE

- When it is set at parking or a vehicle speed less than 40km/h, the system will automatically set the maximum vehicle speed as 40km/h.

POWERSTAR

## Set the upper limit of preset speed (during parking)



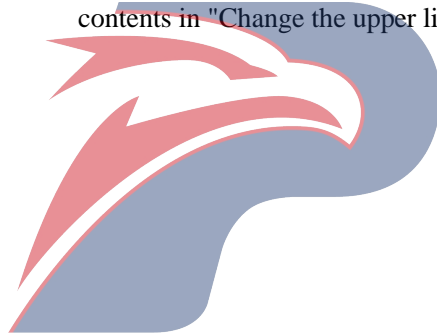
① Press the main control switch; then switch to the adjustable speed governor mode. Here the multimedia display will show the “adjustable speed governor main menu”. In addition, the screen will show "adjustable SLD I mode" or "adjustable SLD II" mode within seconds upon the select switch position of adjustable speed limiter.

Adjustable speed governor selection switch → Refer to page 4-94



② Press the set switch. At this moment, 40km/h will be automatically set as the upper limit of vehicle speed. Meanwhile, the multimedia display will show “SET”.

If 40km/h above is desirable, please refer to the appropriate contents in "Change the upper limit of vehicle speed".



# POWERSTAR

## Change the upper limit of vehicle speed

**Increase the upper limit of vehicle speed**

The vehicle speed can be increased by Resume. Also, the upper limit of vehicle speed shown on multimedia display will increase accordingly.

When pressing and holding the resume switch, the vehicle speed limit will be increased by 5km/h at each time.

When the preset speed is reached a suitable value, release the switch to complete the operation.

**Slightly increase the upper limit of vehicle speed**

Press the Resume and immediately release it. Each operation can increase the upper limit of vehicle speed by 1km/h.

**Reduce the upper limit of vehicle speed**

The vehicle speed can be reduced by Resume. Also, the upper limit of vehicle speed shown on multimedia display will reduce accordingly.

When pressing and holding the Resume, the upper limit of vehicle speed will reduce gradually. 5km/h can be reduced at each time.

When the preset speed is reached a suitable value, release the switch to complete the operation.

**Slightly reduce the upper limit of vehicle speed**

Press the Resume and immediately release it. Each operation can reduce the upper limit of vehicle speed by 1km/h.



**POWERSTAR**

**NOTE**

- The set upper limit of vehicle speed cannot be lower than 40km/h.
- It is allowed to change the upper limit of vehicle speed while parking.

Set the upper limit of preset speed (during parking) → Refer to page 4-90

### Deactivate the adjustable speed limiter



It is allowed to use the following methods to deactivate the adjustable speed limiter.

- When pressing down the cancel switch
- When rotating the ignition switch to "ACC" or "LOCK".
- When pressing the main control switch.

Main Control Switch Refer to page 4-85

- With the adjustable speed limiter activated, quickly release the accelerator pedal which has been stepped to its limit and then step it again.



#### ADVICE

- When the adjustable speed limiter is not used, it is necessary to use the cancel switch to deactivate it.

### Recover the adjustable speed limiter

The speed limiter can be recovered by Resume. Meanwhile, the multimedia display will show "SET".

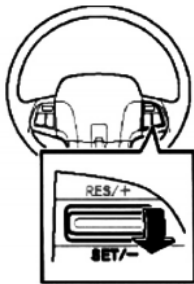


#### ADVICE

- The set upper limit of vehicle speed can be retained even if the adjustable speed limiter is deactivated and the ignition switch is rotated to "LOCK". When the adjustable speed limited is activated next time by resume switch, the upper limit of vehicle speed will be automatically set as the value before deactivation.

**POWERSTAR**

## Setting switch ★



It is used to set or reduce the upper limit of vehicle speed.

Set the upper limit of preset speed (during running)→ Refer to page 4-89

Set the upper limit of the preset speed (during parking) →Refer to page 4-90

Change the upper limit of vehicle speed→ Refer to page 4-91

## Resume switch ★



It is used to restart the speed limiter after the adjustable speed limiter is deactivated or to increase the upper limit of vehicle speed.

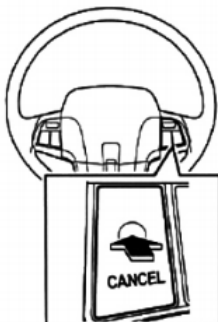
Change the upper limit of vehicle speed→ Refer to page 4-91

Recover the adjustable speed limiter→ Refer to page 4-92

# POWERSTAR

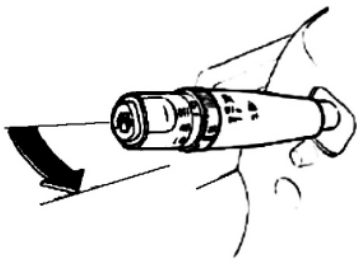
## Cancel switch ★

It is used to deactivate the adjustable speed limiter.



Deactivate the adjustable speed limiter→ Refer to page 4-92

## Exhaust brake switch



While turning the control lever to inside during running, the exhaust brake can be activated. And then, the exhaust brake indicator lamp will be on.

While stepping accelerator pedal or clutch pedal, the exhaust brake will be deactivated; while releasing the pedal, the exhaust brake will be activated again. It should be noted that the exhaust brake cannot start when the vehicle is immobile or runs at a low speed.

## Exhaust brake indicator lamp



## CAUTION

- When the exhaust brake is started on the slippery road (snowy, frozen and wet road), this may cause tire to slip. This is very dangerous.



## NOTE

- The exhaust brake can improve the braking effect of engine, so it can be used as auxiliary brake when going downhill or running at a high speed.
- When the exhaust brake switch is activated for long or the exhaust brake is frequently used to adjust vehicle speed, this may increase the oil consumption.



## ABS

The ABS prevents the wheels from locking during braking by sensing a skid and thus helps maintain directional and control stability of the vehicle.

 NOTE

- ABS stands for Anti-lock Brake System.

 WARNING

- In the case of changing different tire size, please consult the ISUZU supplier.

 CAUTION

- ABS can guarantee driving safely on any status. Please drive the vehicle at a safe speed. Please use same size and same brand, same design of tires. It use different tires will can not keep normal breaking distance and reduce vehicle control stability. This is too much dangerous case.



**POWERSTAR**

## ABS system start

**ABS system start**

In the case of ABS system start, the steering wheel will shake slightly and ABS device will give the system operation sound.

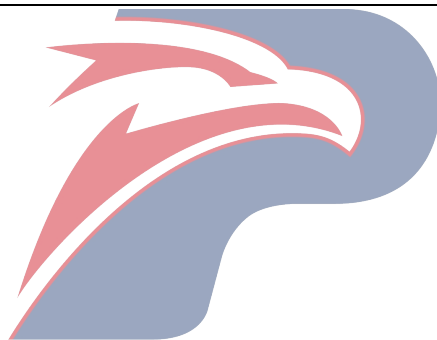
**ABS system fault**

If the multimedia display shows "ABS fault" during running, this shows that ABS system is abnormal. Please contact the ISUZU supplier.



## NOTE

- Even if a problem has occurred with the ABS, the regular brakes still work normally. However, ABS will not operate.



# POWERSTAR

## Precautions for Driving an ABS-Equipped Vehicle

ABS is not a device that enables driving and stopping under conditions exceeding safe driving limits. It is your responsibility to drive safely.

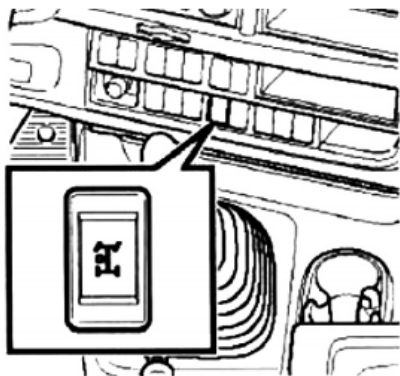


## CAUTION

- The braking distance on slippery road surfaces is longer than that on a normal dry paved road even with an ABS-equipped vehicle. When ABS is activated in the following road surface conditions, the braking distance may be slightly longer compared to that of vehicles not equipped with an ABS. Therefore, always be aware of the road and tire condition (tire type and wear condition), observe safe driving habits, and drive the vehicle while keeping a safe following distance.
  - Driving on a gravel road and deeply snow-covered road
  - When tire chains are used
  - When driving over road joints or steps such as cat's-eyes
  - When driving on a bumpy road, stone-paved road or track
  - When driving on an iron plate or manhole lid
- ABS does not work for wheel skid during a standing start, acceleration and cornering which do not involve braking. On a very slippery icy road, tires may lose their grip and the steering wheel operation may not be able to control the vehicle's direction, resulting in very unstable driving. Always drive the vehicle observing a safe speed well matched with both road surface and tire conditions, and avoid sudden braking.
- If powerful engine braking is applied on a very slippery icy road, the drive wheels may be locked (the ABS then does not work), resulting in loss of vehicle control. If this happens, disengage the clutch or place the gearshift lever into "N" to prevent engine braking from acting on the drive wheels. Then, drive the vehicle with the gearshift lever placed in an appropriate gear.
- ABS operation consumes the brake system air. When the air pressure drops and the air pressure warning lamp and the buzzer are activated, immediately stop the vehicle at a safe place and wait for the required air pressure to be recovered before driving.
- When ABS is activated, slight vibration and pull to one side may be felt on the steering wheel (especially when the road surface condition is different between right and left wheels). In addition, an operating sound is produced from the ABS actuators. This does not indicate any abnormal condition. Stay calm and operate the steering wheel properly.

## PTO★

## PTO Switch ★



This switch can control the connection and disconnection of PTO. Be sure to operate PTO switch when the vehicle is parked and the parking brake takes effect.

**Before connection or disconnection:**

- For the vehicle with PTO remote throttle system, please close the throttle completely (accelerator pedal opening 0%).
- Don't press accelerator pedal (accelerator pedal opening 0%).

**Connection**

- ① Keep the parking brake on and select T/M gear position to neutral.
- ② For the vehicle with manual transmission, step the clutch pedal to its limit, wait for about 5s, operate PTO switch to "ON", check whether the multimedia display shows "PTO in operation", and then slowly connect the clutch.

**Disconnection**

- ① Move the shift lever to neutral position, enable the engine at idle speed.
- ② For the vehicle with manual transmission, step the clutch pedal to its limit, operate PTO switch to "OFF", and check the multimedia display to see if the message of "PTO in operation" disappears.

Multimedia display



POWERSTAR



## NOTE

- If the multimedia display fails to show "PTO in operation" after PTO switch is placed at "ON", please move the vehicle slightly and repeat the above operations.



## CAUTION

- For the vehicle with PTO remote throttle, the remote throttle and the accelerator throttle both can be operated in order to improve working efficiency.
- If two throttles are operated at the same time, the unstable engine speed may be caused and installation facility may produce the unexpected movement. This is very dangerous. Therefore, do not operate two throttles at the same time.
- During running, please don't set the PTO switch at "ON" position and close the remote throttle (throttle opening equal to 0%), because this may cause the damage of transmission.
- While the PTO is in operation, the muffler, exhaust pipe and tail pipe are very hot. As there is a danger of burns, be careful not to touch them inadvertently. Also, be aware of pedestrians near the vehicle, as well as plants or paper rubbish and other flammable items nearby. Otherwise, burns or a fire could result.



## ADVICE

- For the vehicle with manual transmission, the gear damage may be caused if PTO switch is operated before disconnecting the clutch.
- Before adjusting PTO switch to "ON" or "OFF", rotate left the idling control knob to its limit, do not step the accelerator pedal and enable the vehicle to operate at idling.
- It is necessary to confirm that the parking brake has taken effect before operating PTO switch.
- PTO can be operated via remote throttle only when the vehicle is immobile, the transmission is placed at neutral position, the engine is operating and the accelerator pedal is not stepped.

## Urea SCR system

The urea SCR system can be used to purify the nitrogen oxide (NO<sub>x</sub>) in tail gas. This system can use the urea (AdBlue®) as a reducing agent for hydrolytic decomposition in hot tail gas so as to produce ammonia gas (NH<sub>3</sub>). Finally, the generated ammonia gas can resolve the nitrogen oxide (NO<sub>x</sub>) into nitrogen and water through reduction action.



## WARNING

- Do not contain the substance other than urea (AdBlue®) in urea container.
- The following behaviors are forbidden in the use of urea (AdBlue®). Otherwise, the fire or urea SCR system fault may be caused.
  - Thin the solution by water or other liquids.
  - Mix the solution with gasoline or other kerosene.
- If the unspecified urea (AdBlue®) is mixed in the container due to carelessness, it is necessary to immediately check the urea SCR system. Immediately go to ISUZU supplier for inspection and maintenance.



## CAUTION

- Although the urea (AdBlue®) doesn't cause harm in contact with human body, in a few cases the inflammation may be caused upon the different physique. Therefore, please pay attention to the following points in the use of urea.
  - If your skin is in contact with the solution due to carelessness, please wash your skin with flowing water. Such solution may cause allergy to very few people with sensitive skin.
  - If the solution is eaten due to carelessness, please drink 1~2 cups of fresh water or milk and then see a doctor.
  - If the solution is dripped into eye due to carelessness, immediately wash your eye with large amount of water for 15 min and then see a doctor.