




THANK YOU VERY MUCH FOR PURCHASING A HINO VEHICLE

Please carefully and thoroughly read and follow the information in this Driver's/Owner's Manual.

It contains many practical tips about the vehicle's operation and procedures to use for daily and periodic maintenance. The manual will help you become more familiar with your vehicle and avoid situations that could be dangerous to you and to others. If you have any questions about your vehicle please contact your Hino dealer.

Important Symbols and Signs

 DANGER	"DANGER" as used in this manual indicates a hazardous situation which, if not avoided, will result in death or serious injury.
 WARNING	"WARNING" as used in this manual indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.
 CAUTION	"CAUTION" with the safety alert symbol as used in this manual indicates a hazardous situation which, if not avoided, could result in minor or moderate injury.
NOTICE	"NOTICE" as used in this manual addresses practices and situations which could result in vehicle damage if ignored.

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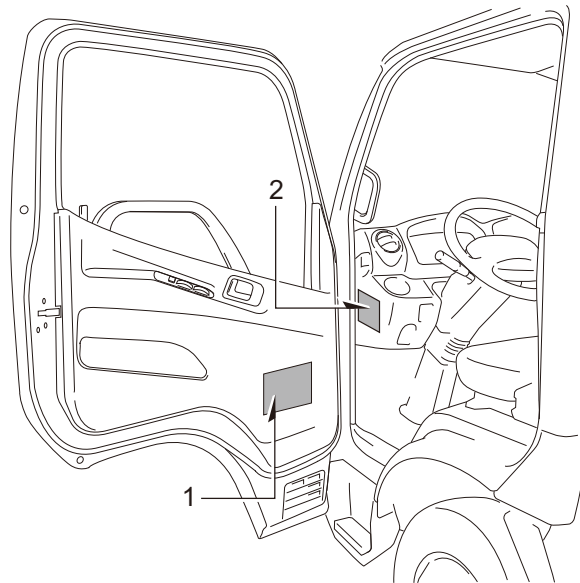
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Safety labels



1. Brake retention of idling stop system

WARNING

BRAKE RETENTION OF IDLING STOP SYSTEM

1. OBSERVE THE FOLLOWING TO AVOID YOUR VEHICLE ROLLING AWAY ON A HILL, WHICH CAN CAUSE AN ACCIDENT RESULTING IN DEATH, SERIOUS INJURY AND/OR PROPERTY DAMAGE.

*The brake retention of Idling Stop System is not for any other purpose than holding your vehicle temporarily while you release the brake pedal and depress the accelerator pedal, and until the vehicle is restarted. Continue depressing the brake pedal or use parking brake to hold your vehicle for a long time. **(NOT FOR PARKING)**

The function is not intended to hold your vehicle without depressing the brake pedal.

*Be sure to confirm that the brake pedal is fully depressed and confirm that the indicator light (2) has turned on before releasing the brake pedal and depressing the accelerator pedal when the Idling Stop System is activated.

2. Press the Idling Stop Cancel button and confirm Idling Stop Cancel indicator light is turned on, and have your vehicle inspected and repaired by an authorized dealer when the indicator light (2) blinks and the buzzer sounds continuously. Otherwise, the wheels can be locked accidentally, which can cause an accident resulting in death, serious injury and/or property damage.

3. The brake retention of Idling Stop System is not available in the following cases;

- (i) the parking brake is applied;
- (ii) Idling Stop Cancel indicator light is turned on;
- (iii) the key position is the "ACC" or the "LOCK"; or
- (iv) Shift position is in "P" range.

2. Brake fluid

WARNING

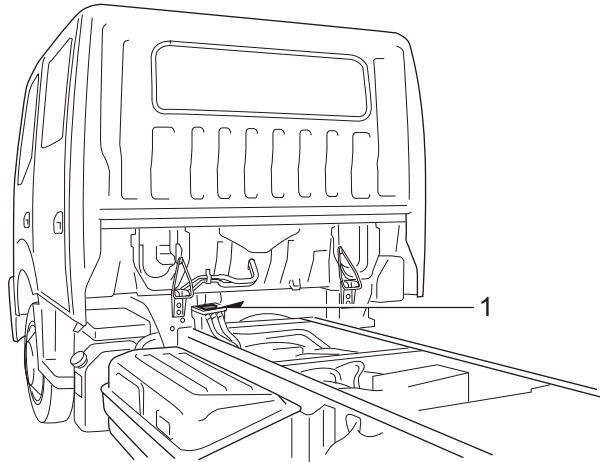
CLEAN FILLER CAP BEFORE REMOVING.
USE ONLY DOT3
FLUID FROM A SEALED CONTAINER.

AVERTISSEMENT

NETTOYEZ LE BOUCHON DE
REPLISSAGE AVANT DE LE RETIRER.
UTILISEZ UNIQUEMENT DU LIQUIDE DOT3
PROVENANT D' UN RÉCIPIENT ÉTANCHE.

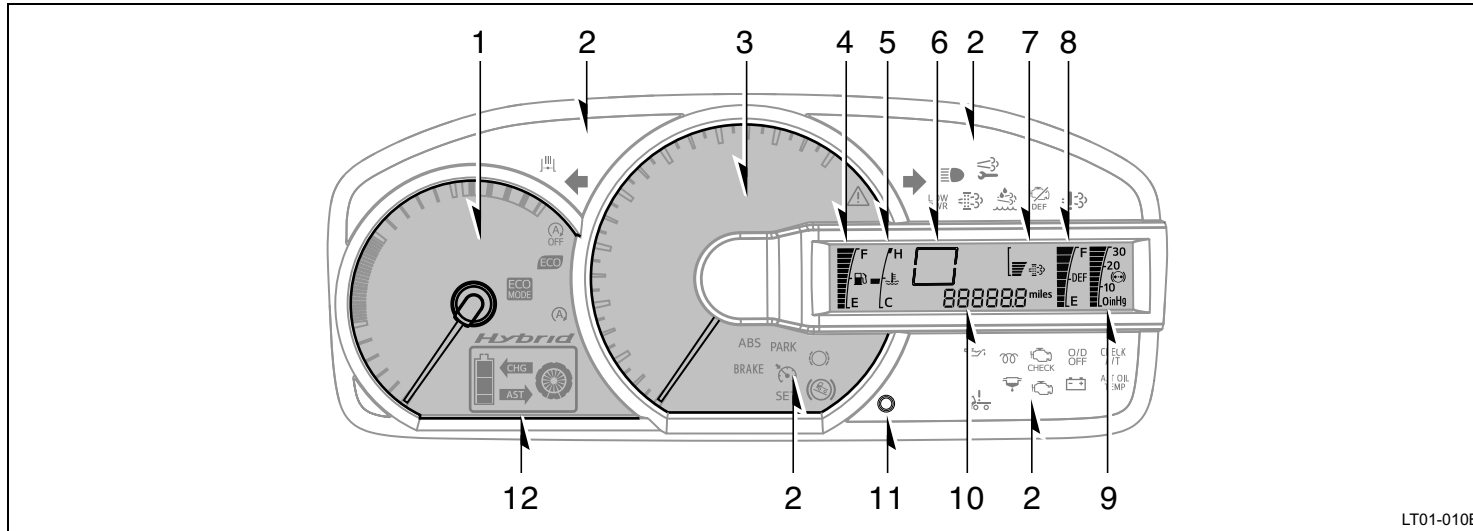
Safety labels

1. Hybrid vehicle system (for crew cab models)



	警告
	カバー内は高電圧です。 感電・火傷・死傷の恐れがあります。 このカバーは外さないでください。
	WARNING
	Hazardous voltage under the cover. Can shock, burn, or cause death. Do not remove the cover.
	Avertissement
	Tension dangereuse sous le couvercle. Risque d'électrocution, de brûlure et d'anger de mort. Ne pas ouvrir le couvercle.

Instrument cluster overview
▶ For U.S.A.



LT01-010B

- | | | |
|---|---|--|
| 1. Tachometer | 5. Engine coolant temperature gauge | 9. Vacuum gauge (for class 4) |
| 2. Service reminder indicators and indicator lights | 6. Shift indicator for automatic transmission | 10. Odometer and two trip meters |
| 3. Speedometer | 7. DPR (Diesel Particulate active Reduction system) gauge | 11. Selector switch (trip meter reset) |
| 4. Fuel gauge | 8. DEF level gauge | 12. HV monitor (for hybrid vehicles) |

—Certification for wireless remote control

FOR VEHICLE SOLD IN U.S.A.

FCC ID: MOZF51TG, MOZF51RG

This device complies with Part 15 of the FCC Rules.

Operation is subject to the following two conditions:

- (1) this device may not cause harmful interference, and
- (2) this device must accept any interference received, including interference that may cause undesired operation.

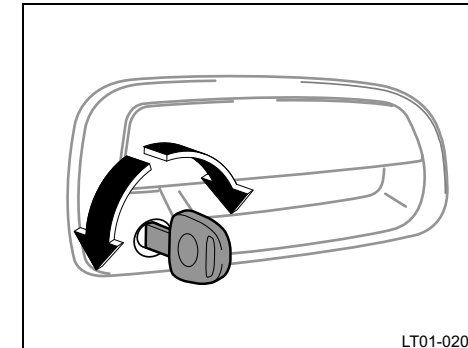
Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

FOR VEHICLE SOLD IN CANADA

Operation is subject to the following two conditions:

- (1) this device may not cause interference, and
- (2) this device must accept any interference, including interference that may cause undesired operation of the device.

Side doors



LOCKING AND UNLOCKING WITH KEY

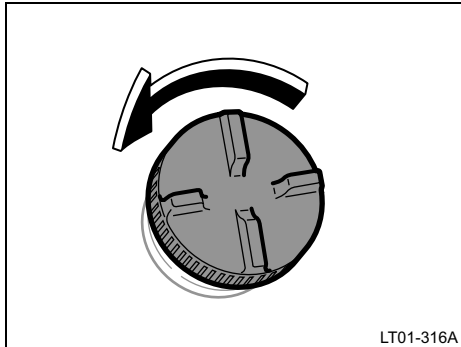
Insert the key into the keyhole and turn it.

To lock: Turn the key forward.

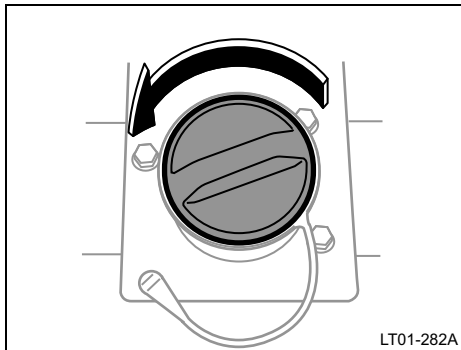
To unlock: Turn the key backward.

Vehicles with a power door lock system—
All doors lock and unlock simultaneously with the driver's door.

Fuel tank cap



Type A



Type B

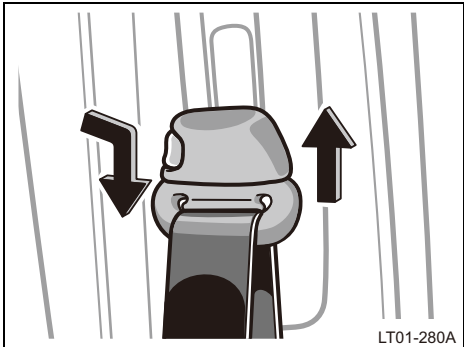
To remove the fuel tank cap, turn the cap slowly counterclockwise, then pause slightly before removing it.

When refuelling, turn off the engine.

It is not unusual to hear a slight swoosh when the cap is opened. When installing, make sure the fuel tank cap is tightly closed.

NOTICE

If the underside of the vehicle happens to receive a big shock when crossing a bump, stop in a safe place where the vehicle will not obstruct traffic and check for fuel leakage and fuel tank damage. If any part of the fuel tank is damaged or broken, promptly consult your Hino dealer for further inspection and repair.



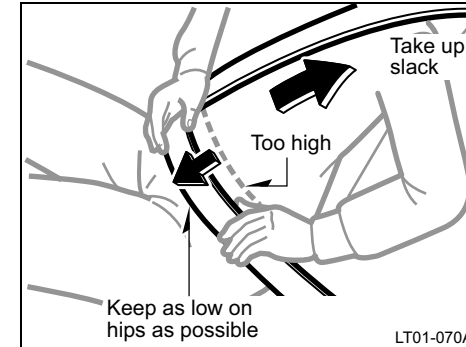
**Adjustable shoulder belt anchor
(Applicable only to the driver's seat)**

- Use the shoulder belt by adjusting it to the position best suited to you. You can adjust the height of the driver's seat side shoulder belt anchor in 5 stages.
- When moving the shoulder belt anchor up side, hold the belt anchor and move it.

- When moving the belt anchor down side, pushing the push button and move the belt anchor. And then release your hand from it when the belt anchor comes to a suitable position. After adjustment, check to see that the belt anchor is securely fixed.

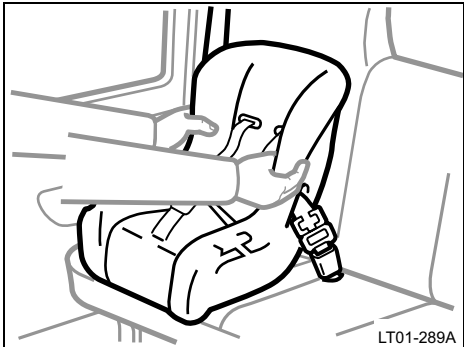
! WARNING

Adjust the shoulder belt anchor in such a way that the shoulder belt does not touch your neck or your face. Also, adjust it to a position as high as possible so that the belt can be sufficiently fitted to your shoulder.



Adjust the position of the lap and shoulder belts.

Position the lap belt as low as possible on your hips—not on your waist, then adjust it to a snug fit by pulling the shoulder portion upward through the latch plate.



! WARNING

Push and pull the child restraint system in different directions to be sure it is secure after securing it with the vehicle's seat belt to the vehicle's seat. Follow all the installation instructions provided by the child restraint system manufacturer.

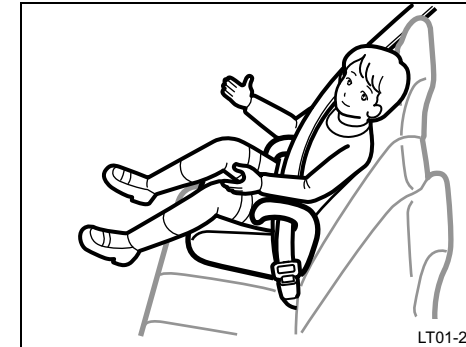
(C) CONVERTIBLE SEAT INSTALLATION

On the outboard seat of this vehicle, a convertible seat may be used in forward-facing or rear-facing position depending on the age and size of the child. When installing, follow the manufacturer's instructions about the applicable age and size of the child as well as directions for installing the child restraint system.

! WARNING

Never install a convertible seat in rear-facing position on the center seat of this vehicle (if so equipped). The seat cannot be safely secured, and death or serious injury to the child or other passengers may result in the event of a sudden stop or accident.

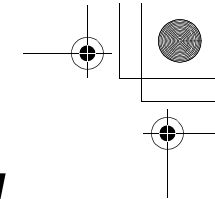
See instructions and warnings for installing rearward-facing and forward-facing child seats on the outboard seat of this vehicle, above.



(D) BOOSTER SEAT INSTALLATION

A booster seat is used in forward-facing position only.

In the United States, the NHTSA recommends use of a booster seat and lap and shoulder belt for children from about 4 years of age and 40 pounds to about 8 years of age and to a height of 4 feet 9 inches. Be sure to check your local laws for the age and size of child appropriate for a booster seat.

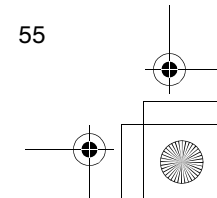
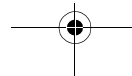
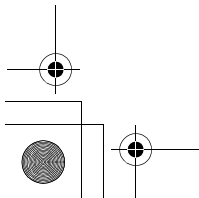
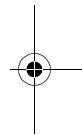
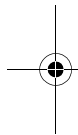


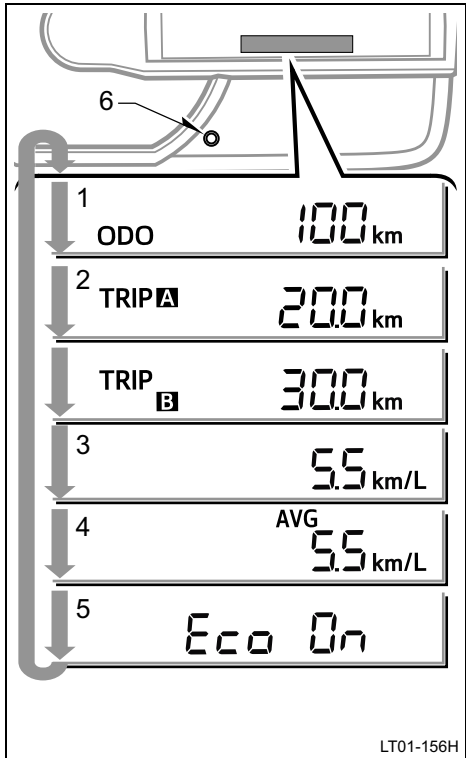
SECTION 1 - 4

OPERATION OF INSTRUMENTS AND CONTROLS

Lights and Wipers

Headlights and turn signals	56
Emergency flashers	57
Interior light	58
Rheostat control dial	58
Windshield wipers and washer	59





For Canada

LT01-156H

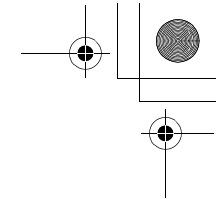
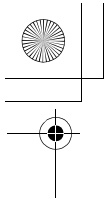
This meter displays the odometer, two trip meters, fuel consumptions and display settings.

1. Odometer—Shows the total distance the vehicle has been driven.
2. Two trip meters—Show two different distances independently driven since the last time each trip meter was set to zero.
You can use one trip meter to calculate the fuel economy and the other to measure the distance on each trip. All trip meter data is cancelled if the electrical power source is disconnected.
3. Current fuel consumption
4. Average value of fuel consumption
5. Display color (for hybrid vehicles)

6. Select switch (Trip meter reset)—Resets the two trip meters, average value of the fuel consumption to zero, select the On/Off of the “Display color” and “Day mode” and also change the meter display.

To change the meter display, quickly push and release the knob. The meter display changes in the order from the odometer to trip meter A to trip meter B to fuel consumption (average) to fuel consumption (current) to display color to day mode, then back to the odometer each time you push.

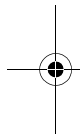
To reset the trip meter A to zero, display the meter A reading, then push and hold the knob until the meter is set to zero. The same process can be applied for resetting the trip meter B.



(j) Check automatic transmission warning light

This light will blink when the any time after start-up indicates that a problem has been detected. The ECU (Electronic Control Unit) will register a diagnostic code and shifts may be restricted. Depending on the severity of the problem, you may be able to continue operating the vehicle until you reach your Hino dealer.

The ECU (Electronic Control Unit) may not respond to shift selector requests since upshift and downshifts may be restricted and direction changes may not occur.



(k) VCS (Vehicle Control System) ECU (Electronic Control Unit) warning light

This warning light comes on if the VCS (Vehicle Control System) ECU (Electronic Control Unit) malfunction is detected. When the warning light comes on, have your vehicle checked and repaired by your Hino dealer.

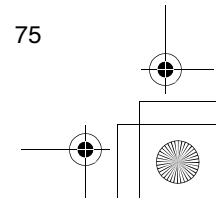
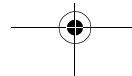
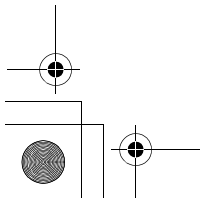
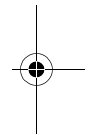
(l) MIL (Malfunction Indicator Light)

This light warns that there is a problem somewhere in the engine electrical system, electronic engine control system or hybrid vehicle control system.

If it comes on while you are driving, have your vehicle checked/repared by your Hino dealer as soon as possible.

If the engine speed does not increase when the accelerator pedal is depressed, there may be a problem somewhere in the electronic engine control system. Stop the vehicle and contact your Hino dealer or take your vehicle carefully, since the vehicle performance will be lower than normal, to your Hino dealer as soon as possible.

Even if the abnormality in the electronic engine control system is corrected during low speed driving, the system may not recover until the engine is stopped and the key is turned to the "ACC" or "LOCK" position.



NOTICE

Creeping phenomenon?

It is when the vehicle starts to move slowly by the effect of the engine idling revolution when the selector lever is engaged in a "R", "D", "4" or "L-3" position, even without depressing the accelerator pedal.

P: Parking position

This position is used for starting the engine or for parking, which locks the wheel. For parking the lever should be positioned into "P".

R: Reverse position

This position is used for backing up the vehicle. When the lever is put into the "R" position, the back-up light is turned on and the buzzer for back-up sounds.

Wait until the vehicle has completely stopped before shifting between "R" and the other positions.

When the lighting switch is turned on, the back-up buzzer does not sound.

N: Neutral position

When the selector lever is placed in the "N" position, there is neither forward nor reverse gear engagement.

You can start the engine with the lever at "N" position. But for safety, do it with the lever at the "P" position.

D: Drive position

This position is used for normal driving. When the Over-Drive (O/D) button is put on, the gear can be shifted from 1st to 6th speed and when Over-Drive (O/D) was off, it can be shifted from 1st to 5th.

4: Fourth position

This position is used, when the engine brake is needed while driving the vehicle with the "D" position.

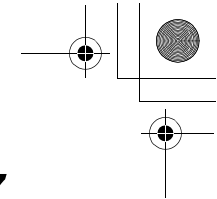
L-3: Low to third position

This position is used, more powerful engine brake is needed while driving the vehicle with the "4" position.

When the selector lever is in "L-3", the vehicle will start in first gear and automatically shift to third gear.

WARNING

Be careful when downshifting on a slippery surface. The abrupt change in engine speed could cause the vehicle to spin or skid.

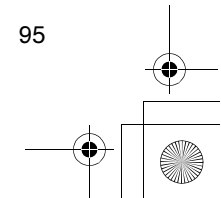
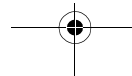
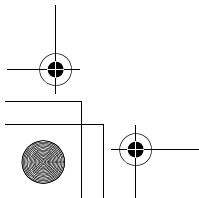
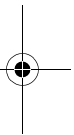
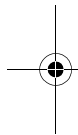


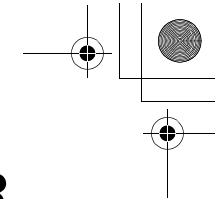
SECTION 1 - 7

OPERATION OF INSTRUMENTS AND CONTROLS

Audio system

Reference	96
Using your audio system	96
Audio system operating hints	101



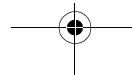
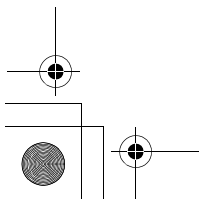
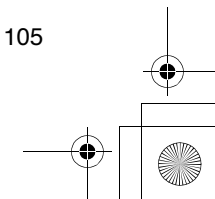
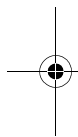
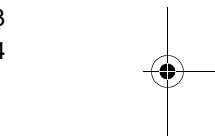


SECTION 1 - 8

OPERATION OF INSTRUMENTS AND CONTROLS

Air conditioning system

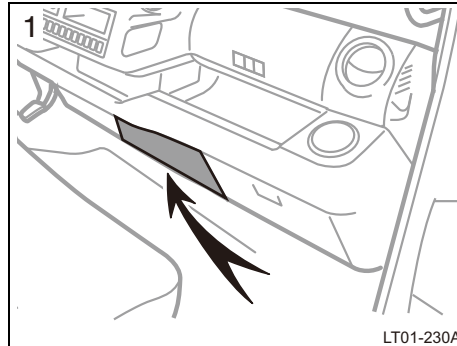
Controls (Air conditioner)	106
Air flow selector settings	109
Operating tips	110
Rear cooler control (for crew cab models)	112
Rear heater control (for crew cab models)	112
Warm up system	113
Air conditioning/Heater filter	114



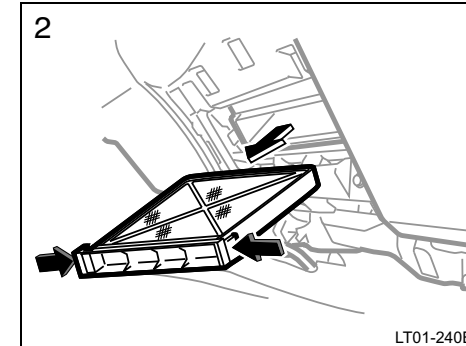
INFORMATION

The filter should be installed properly in position. The use of air conditioning system with the filter removed may cause deteriorated dust proof performance and then affect heater system performance.

—Cleaning the inside heater filter



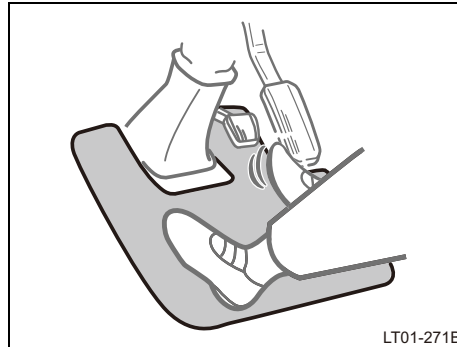
1. Before cleaning the heater filter, be sure to turn off the fan.
Remove the lower cover located near the floor on the passenger's side.



2. Pull out the filter, while pressing the tabs on the left and right.
After washing with a mild detergent, rinse and dry.
After cleaning the filter, replace in reverse order of removal.

Floor mat

◆ **Before driving, make sure the power take-off control switch off. Driving with the power take-off engaged may cause damage to the power take-off system and/or moving mechanism of the converted unit. Never drive with the power take-off system or moving mechanism of the converted unit operating.**



Use only floor mats designed specially for vehicles of the same model and model year as your vehicle.

Place the floor mat, ensuring that it does not interfere with pedals.

CAUTION

Observe the following precautions. Failure to do so may cause the driver's floor mat to slip, possibly interfering with the pedals while driving. An unexpectedly high speed may result or it may become difficult to stop the vehicle, leading to a serious accident.

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2. When the DEF level is less than 5% of the DEF tank capacity, the DEF light on the instrument cluster will start to blink, the low power light and the malfunction indicator light goes on. At the same time, the beep will sound for 10 seconds every 10 minutes. If you do not replenish DEF tank with DEF, the maximum available engine torque will be gradually reduced to a value not exceeding 50% of the maximum torque.

3. When the DEF level is less than 2.5% of the DEF tank capacity, DEF empty symbol on the information display goes on. At the same time, the beep will sound for 3 minutes every 3 minutes.

4. If you do not replenish DEF tank with DEF, the maximum vehicle speed will be limited to 5 mph (8 km/h) in any of the following cases;



- When you stop and restart the engine,
- When your vehicle is refueled,
- When you start the vehicle after the engine has been idled for more than one hour, or
- After you have continued to drive for 200 miles (321 km).

REPLENISHMENT OF DEF TANK

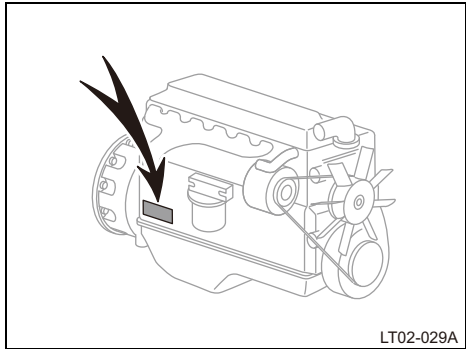
⚠ CAUTION

- Use the clean funnel for the replenishment of DEF, so that DEF is not spilled on the vehicle parts.
- Never allow dust to fall into the DEF tank while replenishing the DEF tank with DEF.
- DEF is available at truck stops, gas stations and Hino dealers.

—Warning of malfunction of DEF-SCR system

Stage	Condition	Warning information		Restriction to the vehicle
		Warning light	Beep (Pi,pi,pi...)	
1	Malfunction is detected	 + LOW PWR + 	Sounds for 10 sec. (warns every 10 min.)	Torque is reduced to a value not exceeding 50% of the maximum torque
2	After 50 min. with the key in "ON" position after the detection		Sounds for 3 min. (warns every 3 min.)	Speed is limited to 5 mph (8km/h) in any of the following cases; (i) When you stop and restart the engine, (ii) When your vehicle is refueled, (iii) When you start the vehicle after the engine has been idled for more than one hour, or (iv) After you have continued to drive for 200 miles (321 km).

—Engine number

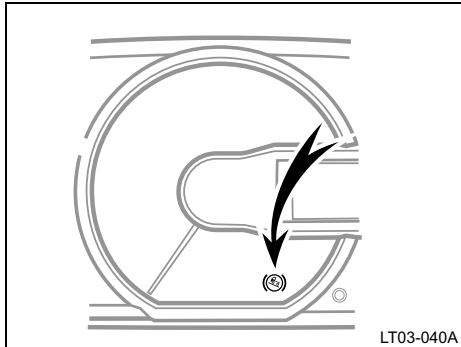


The engine number is stamped on the engine block as shown.

Suspension and chassis

! CAUTION

Do not modify the suspension/chassis with lift kits, spacers, springs, etc. It can cause dangerous handling characteristics, resulting in loss of control.



This is a device designed to reduce the work of the driver by maintaining brake pressure.

! CAUTION

Do not use this system as substitute for the parking brake. Apply the parking brake before leaving the vehicle.

When the key is turned to the "ON" position, ES start (brake retention) indicator light will come on for a moment. This indicates that the system is working correctly.

When the system is engaged and your foot is taken off the brake pedal, the stop lights go off.

If the brake pressure is not sufficient and the vehicle begins to roll, depress the brake pedal more firmly or apply the parking brake.

! WARNING

The brake retention of idling stop system holding your vehicle temporarily while the brake retention is engaged. However, in the following cases, be careful the brake retention is released and suddenly move the vehicle, resulting in death or serious injury in an accident.

- When shift the selector lever to "P" position.
- When the parking brake is applied.
- When turn the key to the "ACC" or "LOCK" position.
- When idling stop cancel indicator light is turned on.

3. Release the parking brake lever and remove your foot from the brake pedal.
4. Depress the accelerator pedal slowly and the gear speed will change automatically in accordance with the vehicle speed and load.

 CAUTION

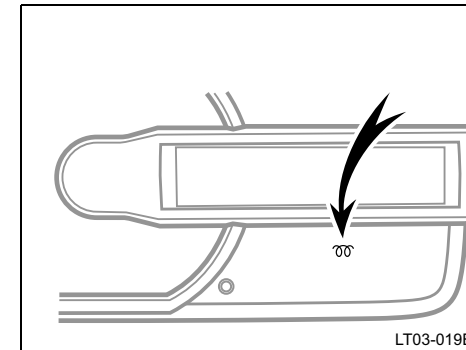
Do not place the selector lever in the "N" position while driving. Otherwise, you will lose the engine brake and it may result in an unexpected accident.

NOTICE

Operation of the selector lever:

- ◆ **Be sure to stop your vehicle before you shift from forward to reverse or from reverse to forward. Also, make sure to confirm visually the lever position.**
- ◆ **When getting out from a muddy (slippery) road, alternately shift the "D" ↔ "N" or the "R" ↔ "N" positions.**
- ◆ **When the lever is placed in other than the "P" or "N" position, do not run the engine at the high revolution while depressing the brake pedal.**

If the weather is extremely cold...



1. Turn the key to "ON" and verify that the engine preheating indicator light has come on. Keep the key in the "ON" position until light goes off.
2. With the accelerator pedal fully down to the floor, crank the engine by turning the key to "START". Release the key and accelerator pedal when the engine starts.
3. After the engine warms up for a few minutes, you are ready to drive.

 **CAUTION**

- **Sudden braking, acceleration and steering when driving on a slippery road surface may cause tire slippage and reduce your ability to control the vehicle, resulting in an accident.**
- **Sudden changes in engine speed, such as sudden engine braking, may cause the vehicle to skid, resulting in an accident.**
- **After driving through a puddle, lightly depress the brake pedal to make sure that the brakes are functioning properly. Wet brake pads may prevent the brakes from functioning properly. If the brakes on only one side are wet and not functioning properly, steering control may be affected, resulting in an accident.**

When encountering flooded roads

Do not drive on a road that has flooded after heavy rain etc. Doing so may cause serious damage to the vehicle.

NOTICE

Driving on a flooded road may cause the engine to stall as well as cause serious vehicle malfunctions such as shorts in electrical components and engine damage from water immersion. In the event that you drive on a flooded road and the vehicle is flooded, be sure to have your Hino dealer check brake function, changes in quantity and quality of oil and fluid used for the engine, transmission, differential, etc. and lubricant condition for the propeller shaft, bearings and suspension joints (where possible) and the function of all joints and bearings.

Winter driving tips

Make sure your coolant is properly protected against freezing.

Only use “Hino Genuine Long Life Coolant” or similar high quality ethylene glycol based non-silicate, non-amine, non-nitrite, and non-borate coolant with long-life hybrid organic acid technology. (Coolant with long-life hybrid organic acid technology is a combination of low phosphates and organic acids.)

See “Checking the engine coolant level” on page 238 for details of coolant type selection.

“Hino Genuine Long Life Coolant” is a mixture of 50% coolant and 50% deionized water. This coolant provides protection down to about -31°F (-35°C).

NOTICE

Do not use plain water alone.

If you cannot increase the engine speed

If the engine speed does not increase when the accelerator pedal is depressed, there may be a problem somewhere in the electronic engine control system. Stop the vehicle and contact your Hino dealer or take your vehicle carefully, since the vehicle performance will be lower than normal, to your Hino dealer as soon as possible.

Even if the abnormality in the electronic engine control system is corrected during low speed driving, the system may not recover until the engine is stopped and the key is turned to the "ACC" or "LOCK" position.

If your vehicle overheats

If your engine coolant temperature gauge indicates overheating, if you experience a loss of power, or if you hear a loud knocking or pinging noise, the engine has probably overheated. You should follow this procedure...

1. Pull safely off the road, stop the vehicle and turn on your emergency flashers. Put the selector lever in the "N" position and apply the parking brake. Turn off the air conditioning if it is being used.
2. If coolant or steam is boiling out of the radiator or reservoir, stop the engine. Wait until the steam subsides before tilting the cab. If there is no coolant boiling over or steam, leave the engine running.

 **WARNING**

To help avoid personal injury, do not tilt the cab until there is no steam. Escaping steam or coolant is a sign of very high pressure.

3. Visually check to see if the engine drive belt (fan belt) is broken or loose. Look for obvious coolant leaks from the radiator, hoses, and under the vehicle.

However, note that water draining from the air conditioning is normal if it has been used.

 **WARNING**

When the engine is running, keep hands and clothing away from the moving fan and engine drive belts.

4. If the engine drive belt is broken or the coolant is leaking, stop the engine immediately. Call your Hino dealer for assistance.
5. If the engine drive belt is O.K. and there are no obvious leaks, you may help the engine cool down more quickly by running it at about 1500 rpm for a few minutes with the accelerator pedal lightly depressed.

Check the condition of your vehicle's paint and trim. If you find any chips or scratches in the paint, touch them up immediately to prevent corrosion from starting. If the chips or scratches have gone through the bare metal, have a qualified body shop make the repair.

Check the interior of your vehicle. Water and dirt can accumulate under the floor mats and could cause corrosion. Occasionally check under the mats to make sure the area is dry. Be particularly careful when transporting chemicals, cleansers, fertilizers, salt, etc.; these should be transported in proper containers. If a spill or leak should occur, immediately clean and dry the area.

Use mud shields on your wheels. If you drive on salted or gravel roads, mud shields help protect your vehicle. Full-size shields, which come as near to the ground as possible, are the best. We recommend that the fittings and the area where the shields are installed be treated to resist corrosion. Your Hino dealer will be happy to assist in supplying and installing the shields if they are recommended for your area.

Keep your vehicle in a well ventilated garage or a roofed place. Do not park your vehicle in a damp, poorly ventilated garage. If you wash your vehicle in the garage, or if you drive it covered with water or snow, your garage may be so damp and it will cause corrosion. Even if your garage is heated, a wet vehicle can corrode if the ventilation is poor.

Washing and waxing your Hino

Washing your Hino

Keep your vehicle clean by regular washing.

The following cases may cause weakness to the paint or corrosion to the body and parts. Wash your vehicle as soon as possible.

- When driving in a coastal area
- When driving on a road sprinkled with antifreeze
- When having coal tar, tree sap, bird droppings and carcass of an insect
- When driving in the areas where there is a lot of smoke, soot, dust, iron dust and chemical substances
- When the vehicle becomes remarkably dirty with dust and mud

(e) Records shall be kept by parties conducting activities included in paragraphs (a) through (d) of this section. The records shall include at minimum the mileage and/or hours at time of rebuild, a listing of work performed on the engine and emissions-related control components including a listing of parts and components used, engine parameter adjustments, emissions-related codes or signals responded to and reset, and work performed under paragraph (d) of this section.

(1) Parties may keep records in whatever format or system they choose as long as the records are understandable to an EPA enforcement officer or can be otherwise provided to an EPA enforcement officer in an understandable format when requested.

(2) Parties are not required to keep records of information that is not reasonably available through normal business practices including information on activities not conducted by themselves or information that they cannot reasonably access.

(3) Parties may keep records of their rebuilding practices for an engine family rather than on each individual engine rebuilt in cases where those rebuild practices are followed routinely.

(4) Records must be kept for a minimum of two years after the engine is rebuilt.

Hino maintenance schedule—

Your Hino maintenance schedule is designed to ensure smooth, trouble free, safe and economical driving.

The service interval for schedule maintenance is determined by the odometer reading or time interval, whichever comes first, shown in the schedule.

The Maintenance services beyond the last period should be performed at the same intervals.

The service interval of each item can be obtained from the maintenance schedule.

Rubber houses (for cooling and heater system, brake system and fuel system) should be inspected by a qualified technician in accordance with the Hino maintenance schedule.

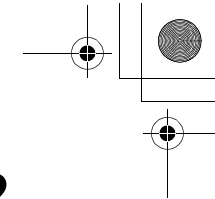
They are particularly important maintenance items. Have any deteriorated or damaged houses replaced immediately. Note that rubber houses will deteriorate with age, resulting in swelling, chafing or cracks.

A-2: Operating on dusty roads

<input type="checkbox"/> Inspection or replacement of air cleaner filter	I: Every 3000 miles (5000 km) or 6 months R: Every 30000 miles (50000 km) or 12 months
<input type="checkbox"/> Inspection of brake pads and discs and back plates	Every 3000 miles (5000 km) or 3 months
<input type="checkbox"/> Replacement of brake master cylinder assy	Every 12 months
<input type="checkbox"/> Replacement of disc brake caliper rubber parts	Every 12 months
<input type="checkbox"/> Tightening of propeller shafts bolts	Every 9000 miles (15000 km)

A-3: Operating on roads with road salt applied

<input type="checkbox"/> Tightening of propeller shafts bolts	Every 9000 miles (15000 km)
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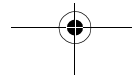
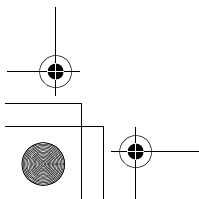
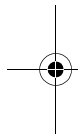
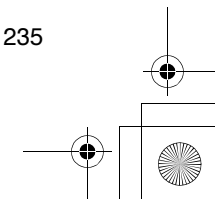
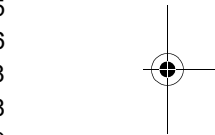


SECTION 7-2

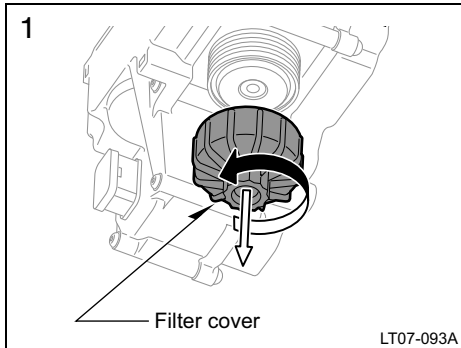
DO-IT-YOURSELF MAINTENANCE

Engine and Chassis

Checking the engine oil level	236
Checking the engine coolant level	238
Checking the radiator, condenser, intercooler and fuel cooler	239
Draining fuel filter water	240
Checking and replacing the air cleaner filter	241
Replacing breather filter element and an O-ring	244
Replacing DEF filter	245
Checking the automatic transmission fluid level	246
Checking parking brake lever	248
Checking tire inflation pressure	248
Checking and replacing tires	249
Rotating tires	251
Installing snow tires and chains	251
Replacing wheels	253



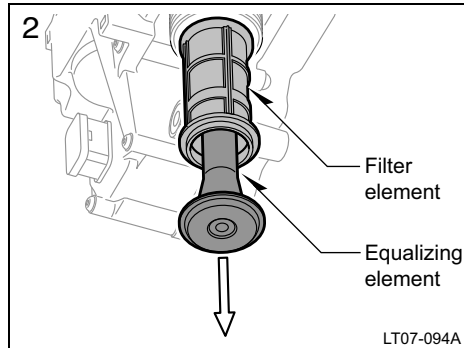
Replacing DEF filter



1. Turn the filter cover counterclockwise and remove the DEF pump filter.

NOTICE

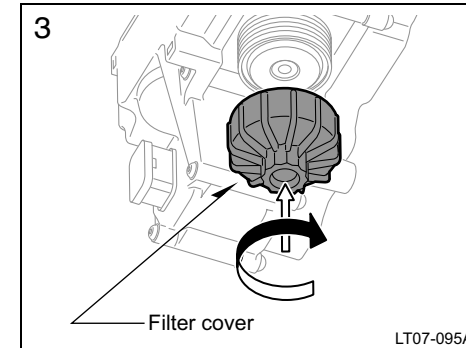
- ◆ Contamination or damage of the sealing surface on the housing is not acceptable.
- ◆ Wrench size: 1.063 in {27 mm}



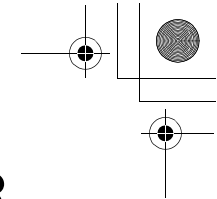
2. When removing the filter cover, the DEF will spill over. Prepare the container and waste cloth for spilled DEF.
3. Remove the filter element and equalizing element from the DEF pump, and replace with new one.

NOTICE

- ◆ Protect the filter area in the housing from contamination.
- ◆ The sealing surface on the housing must be clean. No contamination or particles acceptable.



4. Tighten the filter cover.
Tighten torque: N·m (lbf·ft, kgf·cm)
20—25 (15.0—18.0, 204—254)

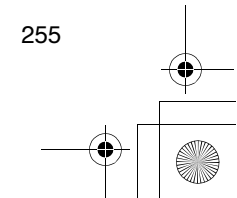
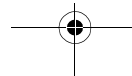
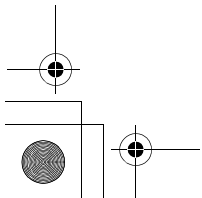
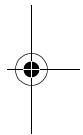
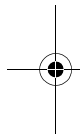


SECTION 7-3

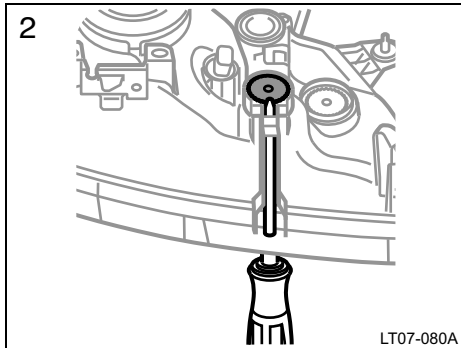
DO-IT-YOURSELF MAINTENANCE

Electrical components

Checking battery condition	256
Battery recharging precautions	259
Checking and replacing fuses	260
Adding washer fluid	261
Replacing light bulbs	262



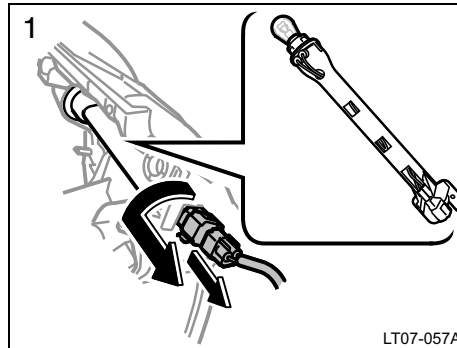
—Front turn signal lights



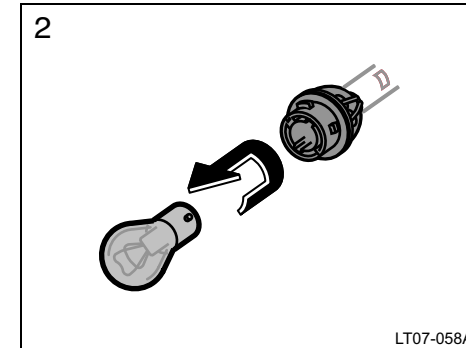
Adjusting the headlight aim

1. Turn bolt **a** in either direction using a Phillips-head screwdriver.
Remember the turning direction and the number of turns.
2. Turn bolt **b** the same number of turns and in the same direction as in step 1 using a Phillips-head screwdriver.

If the headlight cannot be adjusted using this procedure, take the vehicle to your Hino dealer to adjust the headlight aim.



1. Unplug the connector.
2. Turn and remove the rod.



When installing, reverse the steps listed.

AUTOMATIC TRANSMISSION

Fluid capacity, qt. (L, Imp. qt.):

13.0 (12.2, 10.7)

Automatic transmission fluid type:

Toyota genuine ATF Type T-IV, Mobil ATF3309 (Exxon Mobil) or equivalent which satisfies the specification of ATF JWS 3309

HV MOTOR

Fluid capacity, qt. (L, Imp. qt.):

1.4 (1.3, 1.1)

HV motor fluid type:

DIFFERENTIAL

Oil capacity, qt. (L, Imp. qt.):

3.9 (3.7, 3.2)

Oil type:

Hypoid gear oil API GL-5

Recommended oil viscosity:

SAE 90

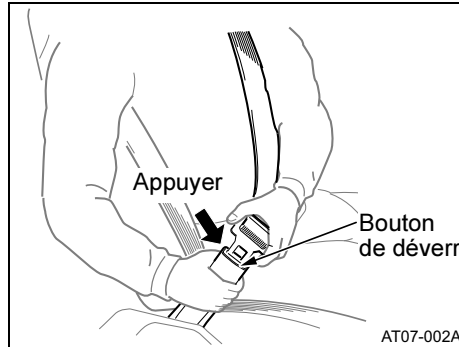
Please contact your Hino dealer for further details.

 **CAUTION**

When you replace the automatic transmission fluid, use Toyota genuine ATF Type T-IV, Mobil ATF3309 and equivalent which satisfies the specification of ATF JWS 3309 for optimum transmission performance. Using automatic transmission fluid other than above may cause deterioration in shift quality, locking up of your transmission accompanied by vibration, and ultimately damage the automatic transmission of your vehicle.

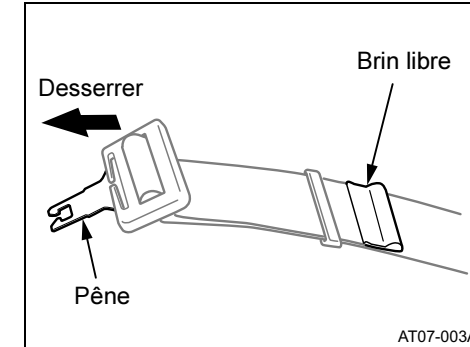
Please contact your Hino dealer for further details of the replacement of the automatic transmission fluid.

- Pour plus de sécurité, ne pas passer la ceinture-baudrier sous le bras.



- Pour détacher la ceinture, appuyer sur le bouton de la boucle et laisser la sangle s'enrouler.
- Si la ceinture ne s'enroule pas complètement, la ressortir et voir si elle n'est pas tortillée. S'assurer qu'elle ne se tortille pas pendant qu'elle s'enroule.

—Ceintures de sécurité à 2 points (le cas échéant)



- Pour desserrer la ceinture, tenir le pêne à angle droit par rapport à la ceinture, comme il est illustré, et tirer dessus.
- Pour tendre la ceinture, tirer sur le brin libre et l'ajuster pour que la ceinture s'adapte bien serrée sur les hanches (et non pas sur la taille).

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