




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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- Please note: If there is no response to CLICKING the link, please download this PDF first and then click on it.

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Safety labels

2. Exhaust gas after treatment system (English/Spanish)

This vehicle is equipped with DPR System. / Este vehículo está equipado con el Sistema de DPR.
 DPR Indicator Light If the DPR indicator light starts to flash, follow all the cautions and the instructions on the warning label on the sun visor.
 Lampaia indicadora de DPR. Si la indicadora de la lámpara de DPR empieza a encender, siga con todas las precauciones e instrucciones de la etiqueta de la advertencia en la visera solar.

2. Exhaust gas after treatment system (English/French)

This vehicle is equipped with DPR System. / Ce véhicule est équipé d'un système de DPR.
 DPR Indicator Light If the DPR indicator light starts to flash, follow all the cautions and the instructions on the warning label on the sun visor.
 Voyant indiquant le DPR. Si le voyant indiquant le DPR commence à clignoter, suivez toutes les précautions et les instructions sur l'étiquette d'avertissement située au pare-soleil.

3. Fuel

CAUTION USE ULTRA LOW SULFUR DIESEL FUEL ONLY.
ATTENTION EMPLOYER UNIQUEMENT DU COMBUSTIBLE DIESEL A ULTRA BASSE TENEUR EN SOUFRE.

4. Hydraulic booster (Class 5 only)

CAUTION Hydraulic Booster

To avoid burns, never touch the hydraulic booster and its surrounding parts located behind this cover, since they could be extremely hot.

ATTENTION Servofrein hydraulique

Pour éviter les brûlures, ne jamais toucher le servofrein hydraulique ni ses pièces voisines situées derrière ce couvercle, car ils peuvent être extrêmement chauds.

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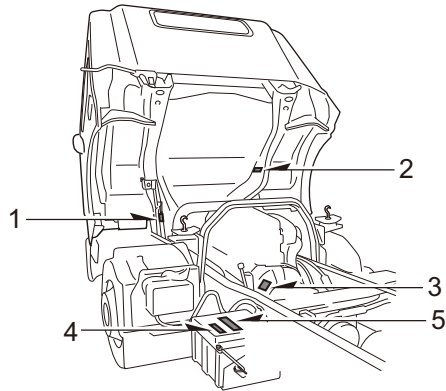
5. Fuse (Instrument panel)

10A SPARE	19 25A SPARE	20 15A SPARE	21 CIG	22 10A	23 H.P. LH LO	24 H.P. RH LO	25 10A	26 TAIL	27 20A	28 DRL	29 10A	30 A/C	31 10A	32 IGT	33 20A	34 MTR HTR	35 25A	36 10A	37 10A	38 HAZ	39 15A	40 HORN	41 10A	42 RADIO	43 10A	44 DOME	45 10A	46 WASHER	47 10A	48 30A	49 WIPER	50 FUSE FULLER
10A SPARE	1 30A SPARE	2 10A ACC	3 10A	4 10A	5 H.P. LTHL	6 10A	7 H.P. RTHL	8 10A	9 10A	10 VCS-B	11 10A	12 ECU-B	13 10A STOP	14 10A	15 AM1	16 AM2	17 SRS-IG	18 ECUHG NO.2	19 10A	20 PWRR	21 FUSE FULLER											

NOTICE USE THE DESIGNATED FUSES ONLY. UTILISEZ SEULEMENT LES FUSIBLES DESIGNES.

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Safety labels



1. Cab tilt



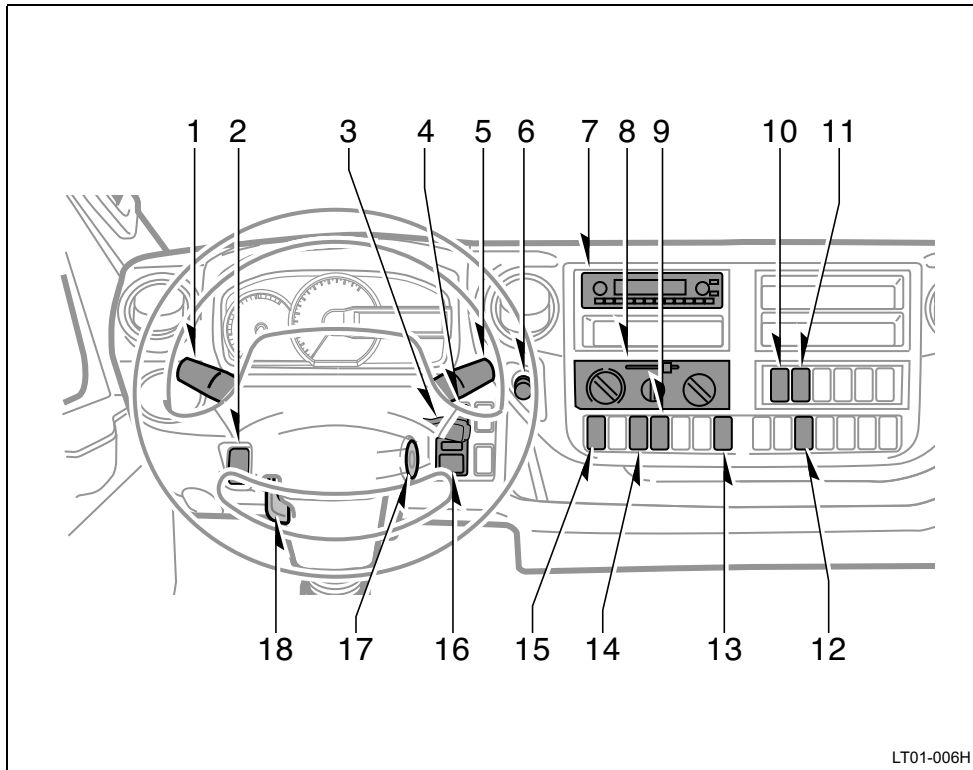
2. Air conditioner refrigerant

<p>⚠ CAUTION REFRIGERANT UNDER HIGH PRESSURE</p> <p>Improper service methods may cause injury. Air conditioning system should be serviced by qualified personnel. See Repair Manual.</p> <p>Refrigerant HFC134a Max. 0.45kg (0.99lbs.) USE ONLY Min. 0.35kg (0.77lbs.)</p> <p>oil ND-OIL 8 SAE OR EQUIVALENT J-639</p> <p>MFD. BY DENSO CORPORATION JAPAN.</p>	<p>⚠ ATTENTION REFRIGERANT SOUS HAUTE PRESSION</p> <p>Un entretien incorrect peut provoquer des blessures. Le système de climatisation doit être entretenu par une personne qualifiée. Voir le manuel de réparation.</p> <p>Refrigerant HFC134a Max. 0.45kg (0.99lbs.) UNIQUEMENT Min. 0.35kg (0.77lbs.)</p> <p>Huile ND-OIL 8 SAE OR EQUIVALENT J-639</p> <p>FABRIQUE PAR DENSO CORPORATION JAPON.</p>
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3. Hybrid vehicle system

<p>⚠ 警告</p> <p>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。</p>
<p>⚠ WARNING</p> <p>Hazardous voltage under the cover. Can shock, burn, or cause death. Do not remove the cover.</p>
<p>⚠ Avertissement</p> <p>Tension dangereuse sous le couvercle. Risque d'électrocution, de brûlure et danger de mort. Ne pas ouvrir le couvercle.</p>

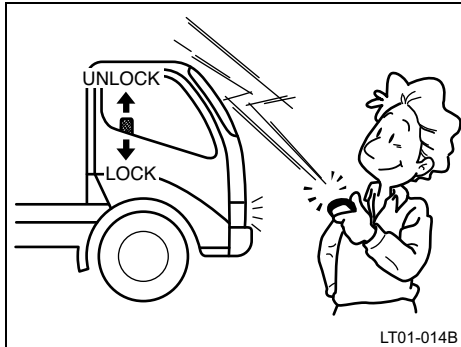
►View B



LT01-006H

1. Headlight and turn signal switches
2. Rheostat control dial
3. Cruise control switch
4. Mirror heater switch
5. Wiper, washer and exhaust retarder (exhaust brake) switches
6. Cigarette lighter
7. Audio system
8. Air conditioning controls
9. DPR (Diesel Particulate active Reduction system) manual regeneration switch
10. Power window switch, for left rear side (for crew cab models)
11. Power window switch, for right rear side (for crew cab models)
12. Power take-off control switch
13. HINO STOP&START cancel switch (for hybrid vehicles)
14. ECO mode switch (for hybrid vehicles)
15. Emergency flasher switch
16. Remote control mirror switch
17. Starter switch
18. Steering lock release lever

Keyless entry system (Wireless remote control)—

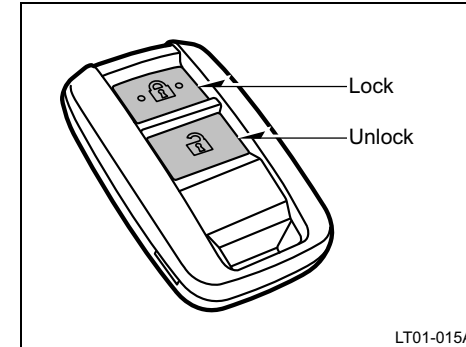


REMOTE KEY

The remote key of the keyless entry system enables you to lock and unlock the door without using the key.

When riding in an aircraft

When bringing a wireless remote control key onto an aircraft, make sure you do not press any buttons on the wireless remote control key while inside the aircraft cabin. If you are carrying a wireless remote control key in your bag etc, ensure that the buttons are not likely to be pressed accidentally. Pressing a button may cause the wireless remote control key to emit radio waves that could interfere with the operation of the aircraft.

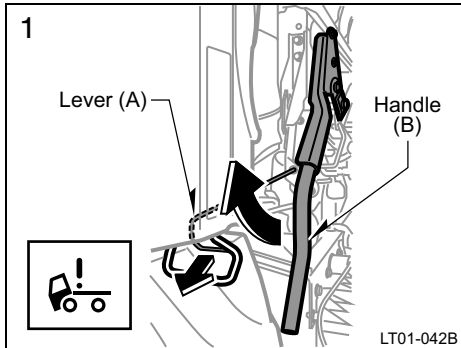


You can lock and unlock the doors by pressing the "LOCK" button and the "UNLOCK" button, respectively, with the remote key toward the vehicle. Press the button for over a second securely.

Always check that the doors have been locked by pulling up the outside handle when you use the remote key to lock the doors.

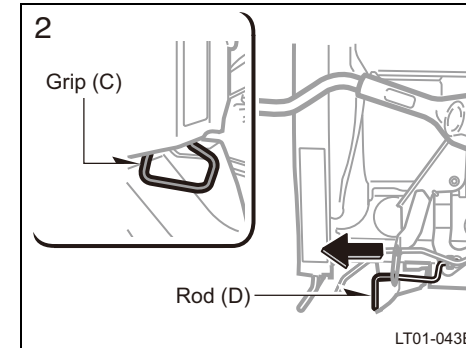
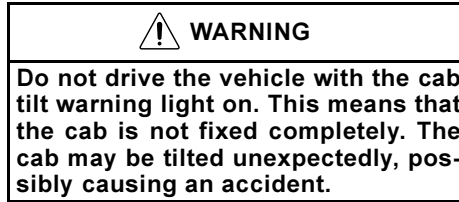
The hazard lights flash to indicate that the doors have been locked/unlocked. (Locked: once; Unlocked: twice)

—Tilting the cab



1. Pull lever (A) toward you and pull up handle (B).

When you unlocked the cab, the tilt warning light in the instrument cluster will come on. (For details, see “Service reminder indicators and warning buzzers” on page 68.)



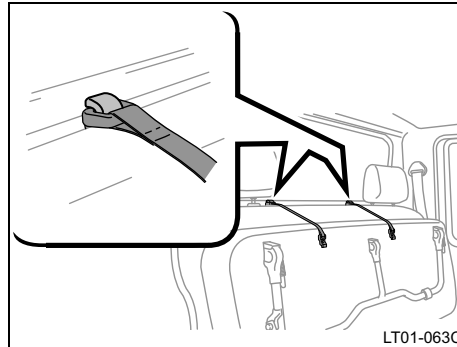
2. Pull rod (D) toward you while grasping grip (C) to hold the cab.

Rear passenger's seat

⚠ CAUTION

Rear seat

- After raising the bottom cushion, be sure to secure it with the holding strap.
- Do not operate the seat while the vehicle is moving.



The seat is foldable. Raise the bottom cushion and hook the strap under the bottom cushion on the hook on the seatback to hold the seat cushion.

⚠ WARNING

Headrest precautions

Observe the following precautions regarding the headrests. Failure to do so may result in death or serious injury in an accident.

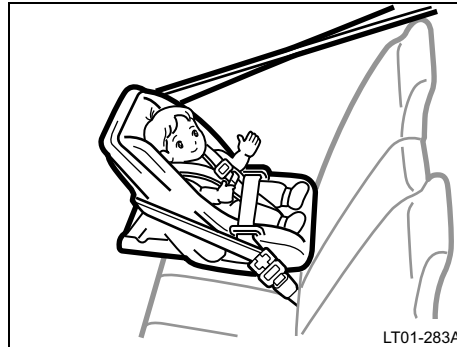
- Use the headrests designed for each respective seat.
- After installing the headrests, make sure they are locked in position.
- Do not drive with the headrests removed.

● A rear-facing child seat (including a rear-facing positioned convertible seat) or a booster seat may be used only with a lap and shoulder belt on the outboard seating position. Never install a rear-facing infant seat or a booster seat on the center seat of this vehicle (if your vehicle has a center seat). A rear-facing infant seat or a booster seat cannot be safely secured on the center seat of this vehicle, and death or serious injury to the child or other passengers may result in the event of a sudden stop or accident.

For installation of a child restraint system (except for a booster seat) on the outboard seat of this vehicle, a seat belt locking clip is required. Locking clips are usually obtained where child restraint systems are sold.

If you do not have a seat belt locking clip, then use the child restraint system only in the center seat (if your vehicle has a center seat).

—Installation Procedure



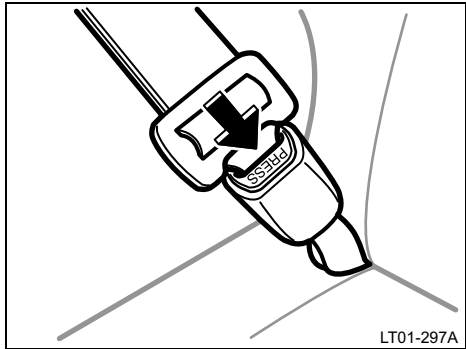
(A) REAR-FACING INFANT SEAT INSTALLATION

An infant seat must be used in rear-facing position only.

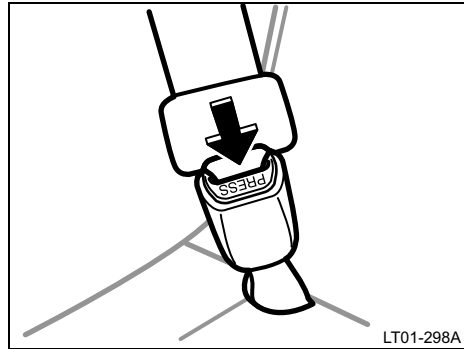
In the United States, the NHTSA recommends use of a rear-facing infant seat for infants from birth to at least one year of age and to at least 20 pounds in weight. Be sure to check your local laws for the age and size of child appropriate for an infant rear-facing infant seat.

When installing, follow the child restraint system manufacturer's instruction about the applicable child's age and size as well as directions for installing the child restraint system.

The outboard seat position of your vehicle has a lap and shoulder belt equipped with an Emergency Locking Retractor (ELR). A seat belt equipped with an ELR requires a locking clip to install a child restraint system (except for a booster seat).



**3-point type seat belt
without locking clip (Outboard Seat)**



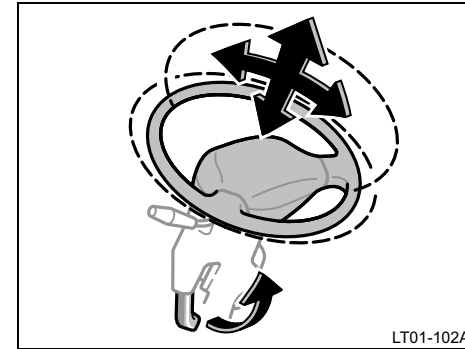
2-point type seat belt

To remove the child restraint system, press the buckle release button and allow the belt to retract completely.

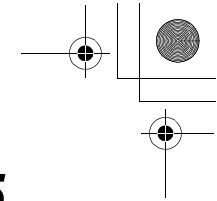
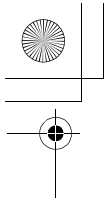
! WARNING

Always remove the locking clip when the child restraint system is not installed.

Tilt and telescopic steering wheel



To adjust the steering wheel position, pull up the lock release lever. Then tilt the steering wheel to the desired angle, push or pull it to the desired steering column length and push down the lock release lever.

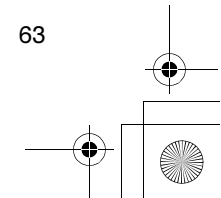
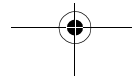
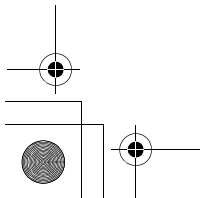
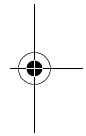
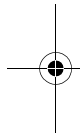


SECTION 1 - 5

OPERATION OF INSTRUMENTS AND CONTROLS

Gauges, Meters and Service reminder indicators

Fuel gauge	64
Engine coolant temperature gauge	64
Vacuum gauge (for class 4)	65
Tachometer	66
Odometer, two trip meters, fuel consumption and display settings	66
Service reminder indicators and warning buzzers	68



(c) Brake system warning light

The light comes on when the key is turned to the "ON" position. If the brake system works properly, the light turns off after a few seconds. If the system is malfunctioned, the light will not turn off.

For Hino 155 and Hino 155h

What is the Brake Assist?

Brake Assist (BA) is a system designed to supplement hydraulic pressure generated by depressing the brake pedal in order to obtain the desired braking force in either of the following two situations;

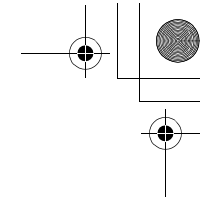
- i) When the brake pedal is strongly applied such as in emergency braking, and
- ii) When the system detects insufficient performance of the brake booster.

When the BA is activated in either of the above situations, you may feel reduced resistance from the brake pedal. As a result, the pedal may be depressed more deeply than it is depressed when the BA is not activated. This brake pedal condition, however, is normal, and it does not indicate that the vehicle is malfunctioning.

The condition indicates that the BA is working properly to assist your brake pedal depression in order to obtain the desired braking force where and when necessary. Therefore, do not be surprised by this pedal condition when the BA is activated. Just continue depressing the brake pedal and never lessen your brake pedal depression force or take your foot off the brake pedal until you achieve the desired braking force to slow or stop your vehicle.

WARNING


- This vehicle is equipped with Brake Assist (BA). When the system detects a situation requiring activation of the BA when the brake pedal is applied, you may feel reduced resistance from the brake pedal. As a result, the pedal may be depressed more deeply than it is depressed when the BA is not activated. This brake pedal condition, however, indicates that the BA is working properly. Nevertheless, you must make sure to continue depressing the brake pedal until you achieve the desired braking force to slow or stop your vehicle.
- BA is not a collision warning or avoidance system. Do not rely on BA and always drive safely.



(t) Parking brake warning light and buzzer

This light comes on when the parking brake is applied.

In case that you drove your vehicle while indicator light is lit, the buzzer sounds.

 CAUTION
The brake light is on when the parking brake is not completely released. To prevent damage to parking brake, release the parking brake before driving.

(u) SVS (Service Vehicle Soon) light

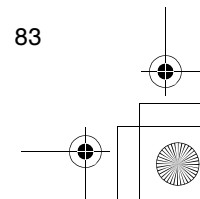
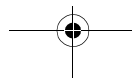
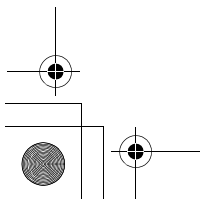
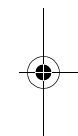
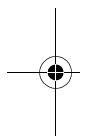
This indicator use when checking the diagnostic code.

For example, when the malfunction of the ECU (Electronic Control Unit) electric power supply or etc. detected, leave the diagnostic code to the failure diagnosis tools for applicable service.

(v) ES start (brake retention) indicator light and buzzer

This light comes on when the key is turned to the "ON" position. If the brake retention of HINO STOP&START SYSTEM works properly, the light turns off after a short period.

When the indicator light blinks and buzzer beeps repeatedly, there is a problem in the brake retention system. Have your vehicle checked and repaired at your Hino dealer.

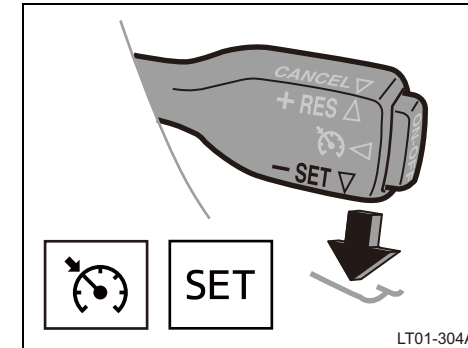
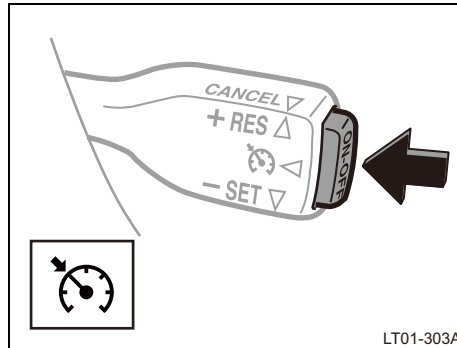


3. Cruise control resume switch

Push the lever up (position 3) for resume the cruise control from temporal release and to increase the set vehicle speed.

4. Cruise control cancel switch

Push the lever toward you (position 4) to cancel cruise control.



Set the vehicle speed

1. When you select the cruise control mode at the cruise main switch, indicator light will come on.
Push the button once more to deactivate the cruise control.

2. By stepping or easing up on the accelerator, to get your desired vehicle speed. Press the lever down, at the same time indicator light will change.
3. Then the vehicle speed is set and you can run the vehicle at the fixed speed, even if you take your foot from the accelerator.

Display:

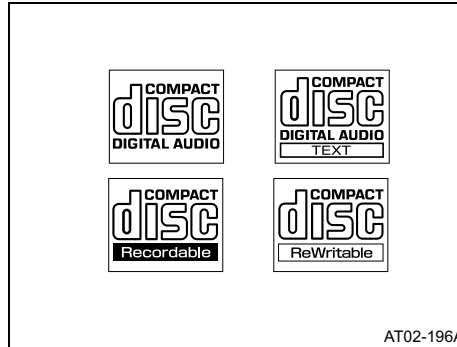
When selecting any other mode than time display, the screen returns to the time display if the screen display is left unattended for 5 seconds or longer.

There could be an incorrect display or no display on the screen in some cases depending on the recorded content.

Error display:

- “MECH ERR”:
Shows that the disc is stuck in the player and cannot be ejected.
- “DISC ERR”:
Shows that the disc is inserted upside down and cannot be played.
- “FOCUS ERR”:
Shows that there is some scratch mark on the disc and it cannot be played.
- “HOT ERR”:
Shows that some abnormal temperature is detected in the player.

When the error display continues, please consult with your Hino dealer.




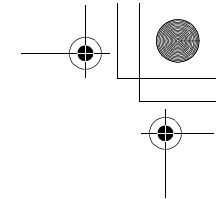
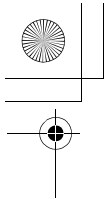
Playable CD:

- Discs with the marks shown above can be played.
Some discs cannot be played due to the recording conditions, characteristic of the disc, scratch, dirt or deterioration.
- Copyright protected CD cannot be played.

Compact disc player protection function:

Stops playing automatically to protect inside the player when some error occurs while using.

 CAUTION
Compact disc players use an invisible laser beam which could cause hazardous radiation exposure if directed outside the unit. Be sure to operate the player correctly.
NOTICE
◆ <i>The CD may be scratched and not playable by leaving it inside or as ejected from the player for a long time.</i>
◆ <i>Do not use a lens cleaner. The player may fail by using it.</i>



Playable WMA file standards:

- Supported standards
WMA Ver. 7, 8, 9
*Does not support WMA9 Professional format (5.1ch surround-sound system, etc.), WMA9 Voice format, WMA9 Pro Lossless.
- Supported sampling frequencies
8, 11.025, 12, 16, 22.05, 32, 44.1, 48 (kHz)
- Supported bit rates
16–320 (kbps)
*Supporting VBR.

File name:

Only the file with extension “.mp3” or “.wma” are recognized as MP3 / WMA and can be played back.

ID3 tag / WMA tag:

ID3 tag is the place in an MP3 file where related information can be input in characters, such as title and artist name of the song.

ID3 Ver. 1.0, 1.1 and ID3 Ver. 2.2, 2.3, 2.4 tags are supported.

(The number of characters complies with ID3 Ver. 1.0, 1.1)

WMA tag is the place in a WMA file where related information can be input in characters, such as title and artist name of the song, similar to ID3 tag.

Playback of MP3 / WMA files:

By inserting the device that stores MP3 / WMA file, all the files in the device are checked first. Once all files are checked, the first MP3 / WMA file is played.

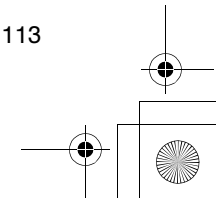
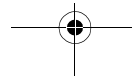
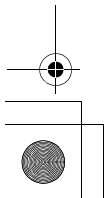
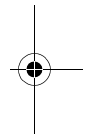
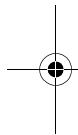
It is recommended not to write files other than MP3 / WMA files or unnecessary folders in the USB memory device to complete the checking as soon as possible.

Extension:

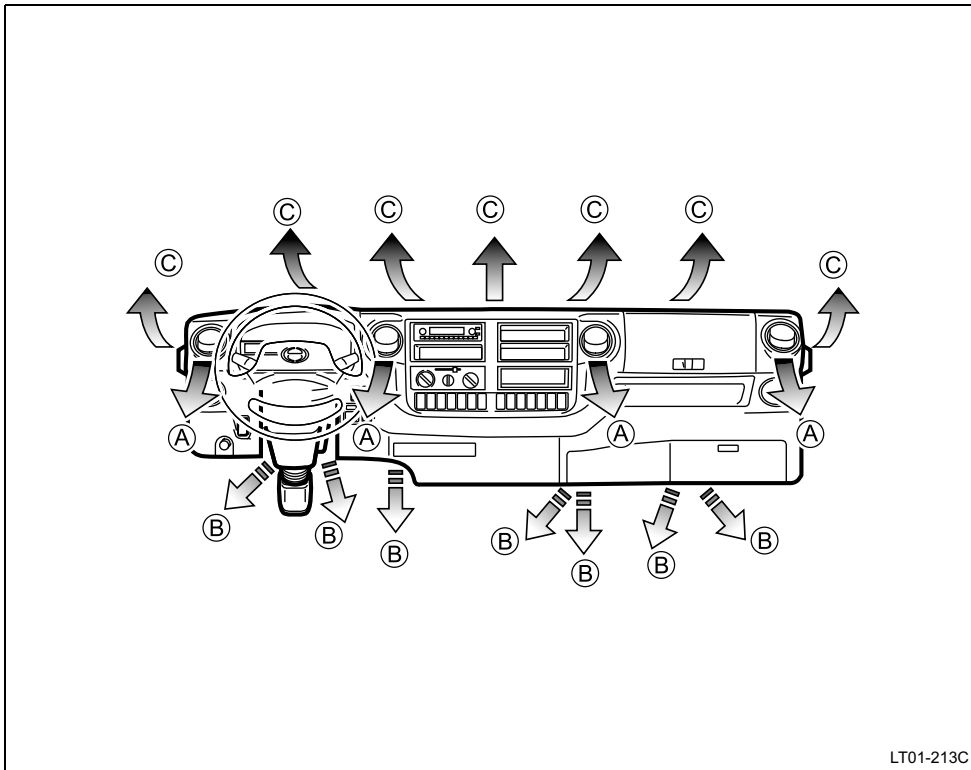
If “.mp3” or “.wma” extension is added to a file that is not MP3 / WMA, the audio player recognizes it as MP3 / WMA file by mistake and can make a huge noise when trying to playback; this can lead to the damage on the speaker.

Playback:

- To playback with a stable sound quality, the constant bit rate of 128 kbps and sampling frequency of 44.1 kHz are recommended for MP3.
- There are many encoder software including freeware in the market for MP3 / WMA. Because of this, sound quality could deter or noise can occur when starting the playback, depending on the condition of the encoder or file format. Also, the playback of the file may not be possible.
- Microsoft, Windows and Windows Media are registered trademarks or trademarks of Microsoft Corporation (US) in the United States and other countries.



Air flow selector settings



Air flow

	A	B	C
	→		
	→	→	
		→	
		→	→
		→	→
			→

The arrows indicate the magnitude of the rate of airflow

To set the alarm

Press  for a while.

Alarm symbol is to be lighted.

To stop the alarm beep

Press any switch of the audio player.

The alarm beep continues to beep for 3 minutes.

To cancel the alarm

Press  for a while.

Alarm symbol is to be lighted off.

NOTICE

Time display:

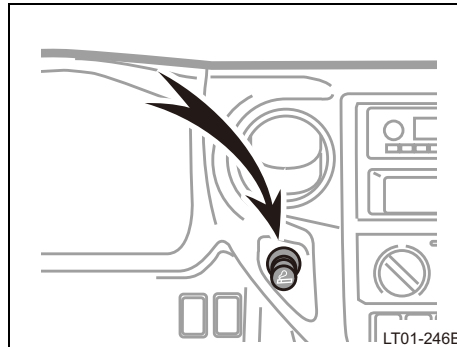
◆ *Do not confuse “AM” and “PM” since it is 12 hours display.*

Alarm:

◆ *Unless the alarm symbol is lighted, alarm buzzer won't sound.*

◆ *Once set the alarm, the alarm buzzer sounds at the same time every day.*

Cigarette lighter and ashtrays



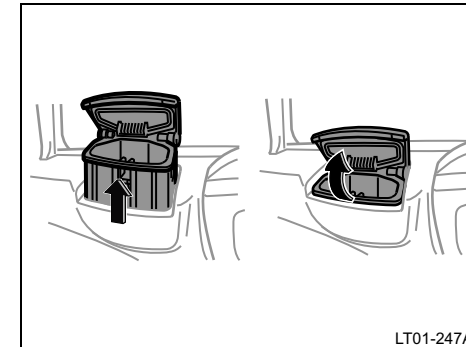
CIGARETTE LIGHTER

To use the cigarette lighter, press it in. After it finishes heating up, it automatically pops out ready for use.

If the engine is not running, the key must be in the “ACC” position.

Do not hold the cigarette lighter pressed in.

Use a Hino genuine cigarette lighter or equivalent for replacement.



ASHTRAYS

To use the ashtray, open the lid.

When finished with your cigarette, thoroughly extinguish it in the ashtray to prevent other cigarette butts from catching fire. After using the ashtray, close the lid completely.

To remove the ashtray:

Side ashtray (front)—Pull it upward.

Side ashtray (rear)—Press down on the lock spring plate and pull out.

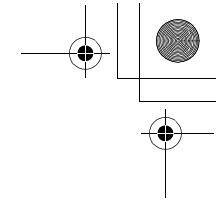
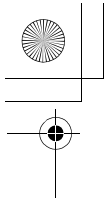
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- Thank you very much for reading the preview of the manual.
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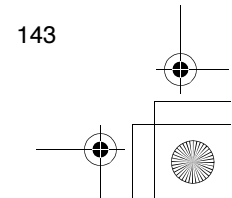
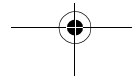
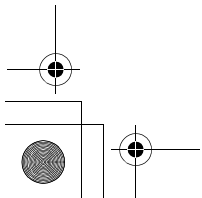
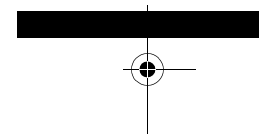
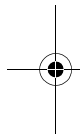
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SECTION 2

INFORMATION BEFORE DRIVING YOUR HINO

Break-in period	144
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Operation in foreign countries	150
Diesel Particulate active Reduction system	150
DEF-SCR system	153
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Facts about engine oil consumption	168
Brake system	169
Brake pad wear indicators	173
Luggage stowage precautions	174
Your Hino's identification	175
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- Vehicles equipped with DPR have the following characteristics.

NOTICE

- ◆ *As the exhaust gas is discharged after purification by the DPR, the exhaust gas has a different odor than that of a previous vehicle.*
- ◆ *White smoke may be discharged from the tailpipe at the time the engine is started, but this is only water vapor and not an abnormality.*
- ◆ *White smoke may be discharged from around the muffler at the time of soot regeneration, but this is only the discharge of water vapor, which has collected around the muffler, as water vapor is not an abnormality.*

DEF-SCR system—

This vehicle is equipped with Diesel Exhaust Fluid (DEF) – Selective Catalytic Reduction (SCR) system for reduction of NOx (nitrogen oxide) emission.

WHAT IS SCR?



SCR is an abbreviation for “Selective Catalytic Reduction”, a general term for an after treatment system which promotes a chemical reaction by using a catalyst for eliminating or detoxifying particular chemical ingredients. By mixing the NOx with the ammonia contained in DEF, NOx will be separated into water and nitrogen.

WHAT IS DEF?

DEF is an abbreviation for “Diesel Exhaust Fluid”, a solution made from 67.5% purified water and 32.5 percent automotive-grade urea that serves as a carrying agent for the ammonia needed to reduce nitrogen oxide (NOx) emissions from diesel engines. When DEF is injected into the engine exhaust gas, downstream of the DPR (Diesel Particulate active Reduction system), it will be rapidly hydrolyzed (decomposed by reacting with water) producing the oxidizing ammonia needed by the DEF-SCR system to lower the level of NOx emissions.

- DEF is crystallized as white powder when it is dried. If you find the crystallized DEF on the surface of the DEF tank, wipe it off with clean cloth.
- Keep your face away from DEF and do not sniff the DEF when you open the filler cap of the DEF tank. DEF may produce an odor when it is warmed up.

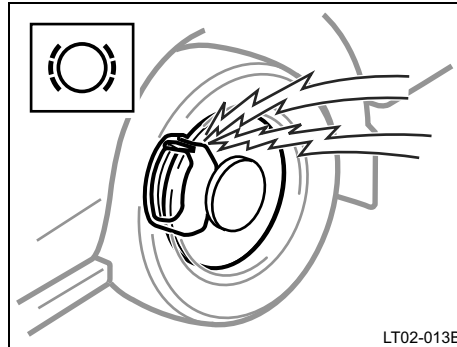
—DEF quality re-warning (when the improper/deteriorated DEF is detected again within 40 operating hours after the improper/deteriorated DEF is once undetected)

Stage	Condition	Warning information		Restriction to the vehicle
		Warning light	Beep (Pi,pi,pi...)	
1	When the improper/deteriorated DEF is detected	 DEF +	Sounds for 10 sec. (warns every 10 min.)	Torque is reduced to a value not exceeding 50% of the maximum torque
2	After 30 min. with the key in "ON" position after the detection	LOW PWR + 	Sounds for 3 min. (warns every 3 min.)	Speed is limited to 5 mph (8km/h)

NOTICE

- ◆ *When the EBD is activated, the driver may feel the brake pedal moves or hear a sound similar to the sound heard when the ABS is activated, but this does not mean a malfunction.*
- ◆ *After the key is turned to the "ON" position, the EBD corrects the tire size while the vehicle is running. If the vehicle is suddenly started or decelerated during this time, this correction may not be completed, thereby disabling the EBD.*

Brake pad wear indicators



Avoid continuous driving with the warning light turns on.

Continuous driving without replacing the brake pads will cause expensive rotor damage and increasing brake pedal effort to get the same stopping distance.

The brake pad wear indicators on your disc brakes give a warning light when the brake pads are worn to where replacement is required.

If the warning light comes on while driving, have the brake pads checked and replaced by your Hino dealer immediately.

STARTING AND ACCELERATION

When the vehicle starts to move, it will be started:

- (a) with the engine power only, or
- (b) with both engine power and HV motor power.

The vehicle will automatically select (a) or (b) above depending on the remaining HV battery capacity.

NOTICE

Regardless of the remaining HV battery capacity, torque assist by HV motor does not function in certain conditions such as when regeneration of the DPR is in process.

Please note that sudden starting and sudden acceleration will affect fuel efficiency.

DECELERATION

With your foot off the acceleration pedal, the regeneration function of the hybrid system is activated automatically.

When the vehicle is decelerated by engine braking, the kinetic energy is converted to electric energy by the HV motor which functions as a generator, and the HV battery is charged.

⚠ WARNING

When the HV battery is fully charged and five cells of the battery figure is shown in the HV monitor, the braking force may diminish, resulting in death or personal injuries in an accident. Be sure to use exhaust brake on a long downhill for additional braking force.

NOTICE

To achieve good fuel efficiency by eco driving, we would advise you to...

- ◆ **Apply the engine brake early when you stop or decelerate your vehicle.**
- ◆ **In case of vehicle driving on a downhill give priority to use the exhaust brake.**
- ◆ **Keep the exhaust brake turned off except when necessary, as the fuel consumption of your vehicle will be worse while the undulation driving.**

—Troubleshooting for hybrid vehicle

Symptom	Possible cause	Remedy/Prevention	Refer to
Engine does not start (Starter operates normally)	Fuses for engine control are blown.	Replace the fuses. If a new fuse frequently blows out, contact your Hino dealer.	287
	MIL (Malfunction Indicator Light) blinks with the key in the "ON" position.	Return the key to the "LOCK" position, then turn the key to the "ON" position again. If the light blinks again, contact your Hino dealer.	—
	MIL (Malfunction Indicator Light) is not lit with the key in the "ON" position.	Check the computer of the common-rail system.	—
	Coupler of harness wire disconnected.	Connect it tightly (Never touch harness wire marked in orange, because it has high voltage).	—
"HV warning light" comes on	Hybrid vehicle system is abnormal.	Contact your Hino dealer.	68

How to load cargo

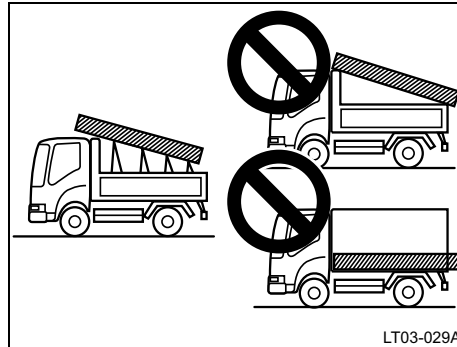
Do not load cargo in excess of the maximum load capacity.

WARNING

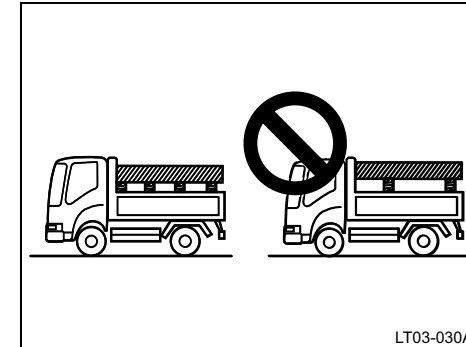
Excessive or incorrect loading can cause instability, accelerated wear and tear, insufficient braking, and other problems. This can result in an accident and serious injury, death, or property damage.

NOTICE

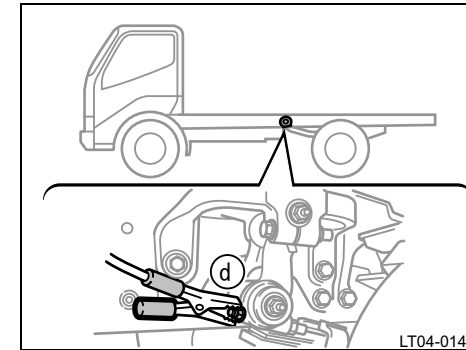
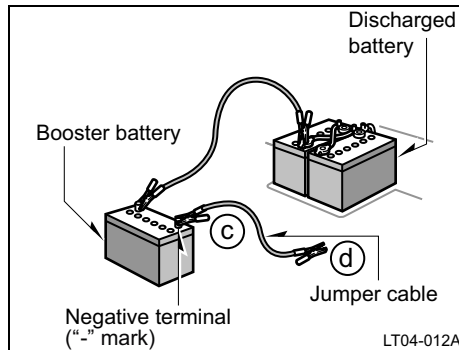
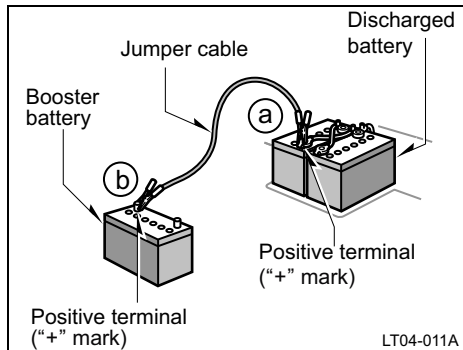
In case of heavy cargo. Due to the danger of sliding when braking or turning, cargo sliding must be prevented by cargo being fixed securely with wire cables.



1. As far as possible, avoid projection of long objects beyond the rear end of the body.
Avoid 2-point support at the cab guard and the rear end of the overhang.



2. When load supports are used, use sufficient supports and position them properly.



4. Make the cable connections in the order a, b, c, d.

- a. Connect the clamp of the positive (red) jumper cable to the positive (+) terminal on the discharged battery.
- b. Connect the clamp at the other end of the positive (red) jumper cable to the positive (+) terminal on the booster battery.

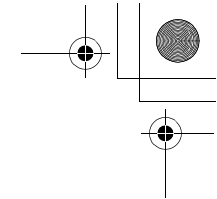
- c. Connect the clamp of the negative (black) jumper cable to the negative (-) terminal on the booster battery.
- d. Connect the clamp at the other end of the negative (black) jumper cable to a solid, stationary, unpainted, metallic point of the vehicle with the discharged battery.

The recommended connecting points are shown in the following illustrations:

Do not connect the cable to or near any part that moves when the engine is cranked.

! CAUTION

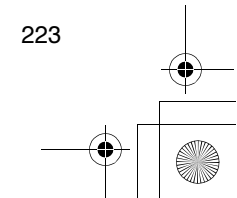
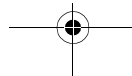
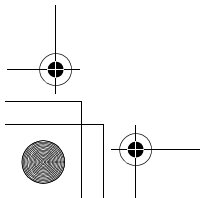
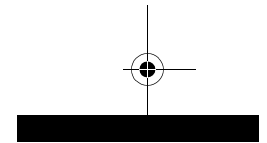
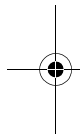
When making the connections, to avoid death or serious injury, do not lean over the battery or accidentally let the jumper cables or clamps touch anything except the correct battery terminals or the ground.



SECTION 5

CORROSION PREVENTION AND APPEARANCE CARE

Protecting your Hino from corrosion	224
Washing and waxing your Hino	225
Cleaning the interior	229



Does your vehicle need repairing?

Be on the alert for changes in performance, sounds, and visual tip-offs that indicate service is needed. Some important clues are as follows:

- Engine missing, stumbling, or pinging
- Appreciable loss of power
- Strange engine noises
- A leak under the vehicle (However, water dripping from the air conditioning after use is normal.)
- Change in exhaust sound (This may indicate a dangerous carbon monoxide leak. Drive with the windows open and have the exhaust system checked immediately.)
- Flat-looking tire; excessive tire squeal when cornering; uneven tire wear
- Vehicle pulls to one side when driving straight on a level road
- Strange noises related to suspension movement
- Loss of brake effectiveness; spongy feeling brake pedal; pedal almost touches floor; vehicle pulls to one side when braking
- Engine coolant temperature continually higher than normal

If you notice any of these clues, take your vehicle to your Hino dealer as soon as possible. It probably needs adjustment or repair.



CAUTION

Do not continue driving with the vehicle unchecked. It could result in serious vehicle damage and possibly personal injury.

Clean air act

Heavy-duty engine rebuilding practices.

§ 86.004-40

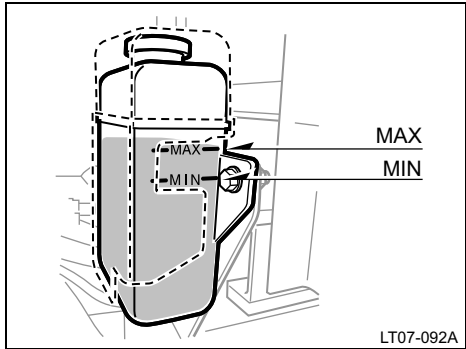
The provisions of this section are applicable to heavy-duty engines subject to model year 2004 or later standards and are applicable to the process of engine rebuilding (or rebuilding a portion of an engine or engine system). The process of engine rebuilding generally includes disassembly, replacement of multiple parts due to wear, and reassembly, and also may include the removal of the engine from the vehicle and other acts associated with rebuilding an engine. Any deviation from the provisions contained in this section is a prohibited act under section 203(a) (3) of the Clean Air Act (42 U.S.C. 7522(a) (3)).

—The additional maintenance schedule

Refer to the following tables for normal maintenance schedule items requiring more frequent service specific to the type of severe conditions. (For outline, see “Maintenance schedule requirements” on page 236.)

For engine oil and engine oil filter

TYPE 1	
<input type="checkbox"/> Replacement of engine oil and filter.	<p>Hino Genuine Motor Oil First 3000 miles (5000 km) then every 9000 miles (15000 km)</p> <p>Non-Genuine Motor Oil First 3000 miles (5000 km) then every 6000 miles (10000 km)</p>
TYPE 2	
<input type="checkbox"/> Replacement of engine oil and filter.	<p>Hino Genuine Motor Oil First 3000 miles (5000 km) then every 12000 miles (20000 km)</p> <p>Non-Genuine Motor Oil First 3000 miles (5000 km) then every 6000 miles (10000 km)</p>



Checking the Hydraulic brake booster fluid level

According to the maintenance schedule (See "Maintenance schedule" on page 237), check the hydraulic brake booster fluid tank level and change the fluid accordingly.

The fluid level should be between the "MAX" and "MIN" lines. If the level is below the "MIN" line, add fluid up to the "MAX" line. (Before adjusting the fluid level, press the brake pedal more than 10 times to zero the accumulator pressure.)

NOTICE

- ◆ Use ATF DEXRON® II, III or higher grade fluid.
- ◆ Tank position of the Hydraulic brake booster: Rear left side of cab

Hydraulic brake booster characteristics

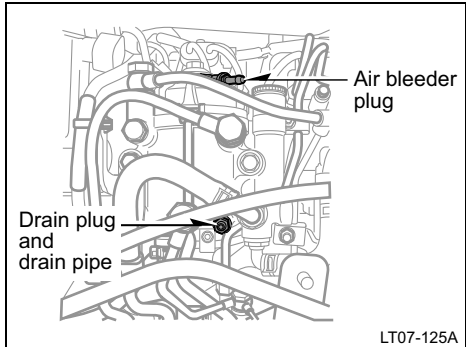
NOTICE

The Hydraulic brake booster adopted in class 5 of vehicles has a hydraulic system different from that of other vehicles with vacuum servo brakes. For this reason, a distinctive sound as described below may be heard from under the instrument panel while the brakes are used. This is not a malfunction.

- ◆ A squeaking sound (operating sound of the accumulator) can be heard when the brakes are operated with the engine off.
- ◆ The accumulator is charged automatically. An operating sound ("hissing" or "clicking" sound) can be heard at this time.
- ◆ With the engine on, a booming sound (sound from the pump) can be heard during hard braking.

When the engine is stopped, the brake pedal may be pressed easily to the floor. This is not a malfunction.

Replacing the fuel filter



LT07-125A

Fuel filter (engine mount)

! CAUTION

- Replace the fuel filter according to the “Hino maintenance schedule” on page 235.
- For fuel filter replacement, always use a genuine fuel filter because its high filtration performance is required.

- Serious failures such as engine stall, etc. may occur unless the above precautions and instructions are observed.
- While at work, the air enters into the fuel system, after replacing the fuel filter, bleed the air from the fuel system without fail.
- Before installation, make sure that there is no dirt on the connecting area of the each parts.
- Be careful not to allow the dust and/or water get into the fuel system when working.
- After replacement of the filter element, operate the engine for trial to check to see if there is any fuel leakage around the fuel filter. Fuel leakage can cause a fire.
- Always use the Hino genuine parts for the fuel filter element.

Before starting the operation, clean the fuel filter and its surrounding area. If the filter is not cleaned, dust may come into the fuel filter.

1. Place a container for waste fuel under the fuel filter.
2. Loosen the drain plug and then loosen the air bleeder plug to drain the fuel from the drain pipe.

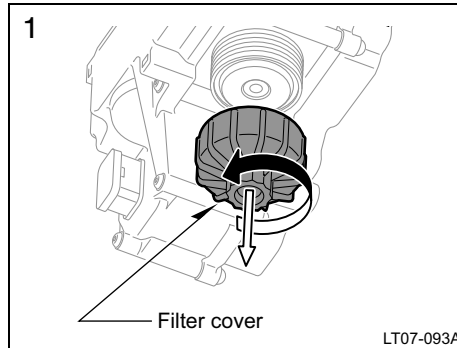
! CAUTION

Drain completely the fuel inside the filter. Replacing the element without draining completely the fuel may cause the unfiltered fuel remain inside the filter that may flow into the engine side.

Replacing DEF filter

1. Loosen the cover bolts and remove the cover.
2. Replace the filter element with a new one. Fit the filter element in the right place of the body when installing it.
3. Remove the gasket from the body and replace with a new one (a new gasket is supplied with the new filter element). Apply the oil to the new gasket when installing it to the body.
4. Place the cover to the body and tighten the cover bolts in the order shown.

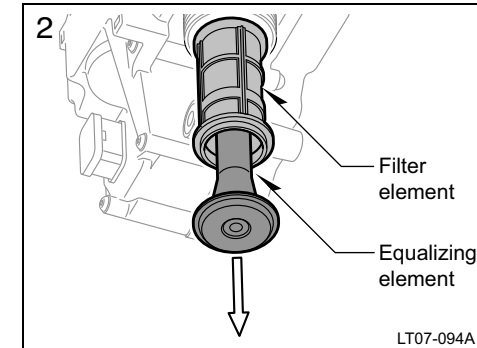
Tighten torque: N·m (lbf·ft, kgf·cm)
6.0—7.0 (4.5—5.1, 62—71)



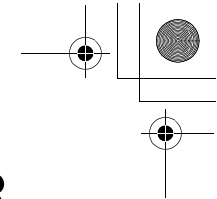
1. Turn the filter cover counterclockwise and remove the DEF pump filter.

NOTICE

- ◆ **Contamination or damage of the sealing surface on the housing is no acceptable.**
- ◆ **Wrench size: 1.063 in. (27 mm)**
- ◆ **When removing the filter cover, the DEF will spill over. Prepare the container and waste cloth for spilled DEF.**



2. Remove the filter element and equalizing element from the DEF pump, and replace with new one.

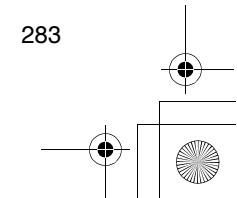
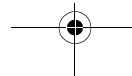
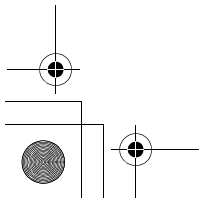
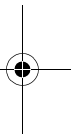
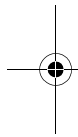


SECTION 7-3

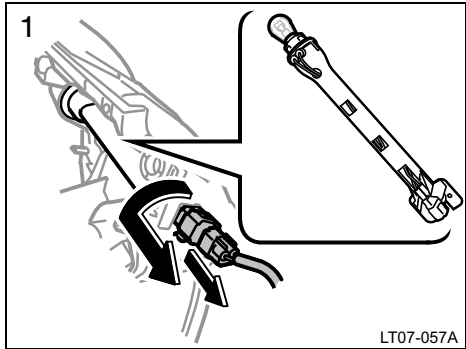
DO-IT-YOURSELF MAINTENANCE

Electrical components

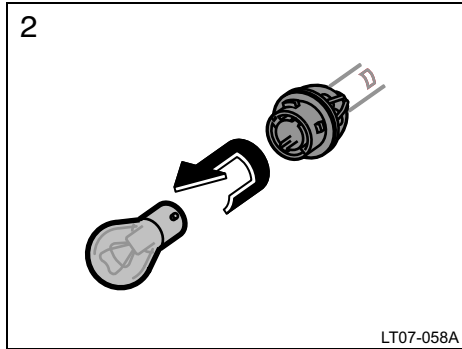
Checking battery condition	284
Battery recharging precautions	287
Checking and replacing fuses	287
Adding washer fluid	289
Replacing light bulbs	290



—Front turn signal lights

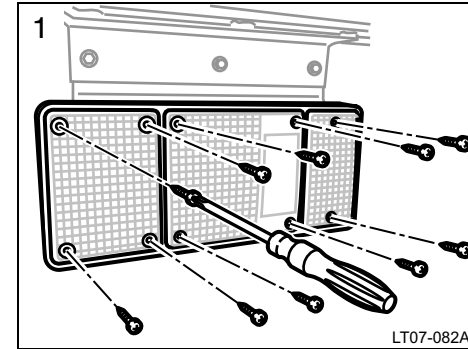


1. Unplug the connector.
2. Turn and remove the rod.

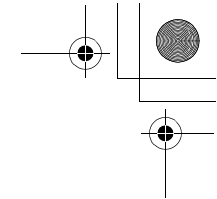
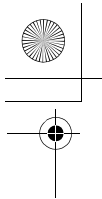


When installing, reverse the steps listed.

—Rear turn signal, stop/tail, and back-up lights



Use a Phillips-head screwdriver.



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:

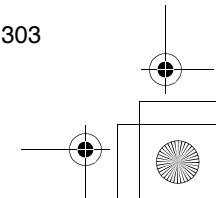
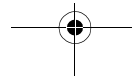
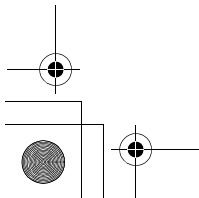
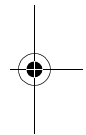
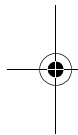
SAE 90

Please contact your Hino dealer for further details.

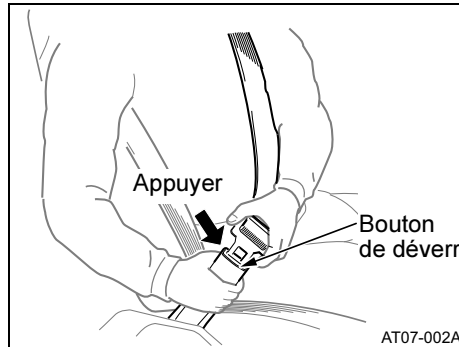
 **CAUTION**

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.

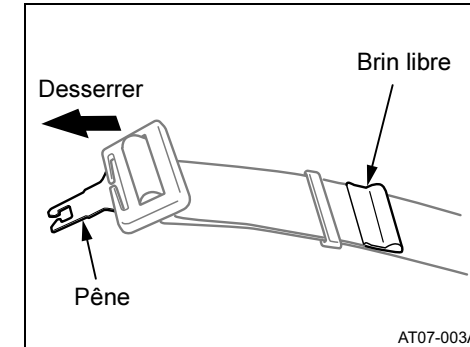


- Pour plus de sécurité, ne pas passer la ceinture-baudrier sous le bras.



- 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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