

FOREWORD

Thank you very much for your purchasing of a Hino vehicle.

This manual contains many practical tips on operation, procedures for daily and periodic maintenance, and important information to help you enjoy safe and trouble-free operation of your vehicle. Please read this manual carefully and thoroughly.

New Vehicle Warranty




Your new vehicle is covered by the following Hino warranties.

- **New vehicle warranty**
- **Emission control systems warranty**
- **Noise emissions warranty**

WARNING

Any modification of the vehicle or engine other than Hino specified maintenance can adversely affect the performance, safety and reliability of the vehicle, and can result in the breach of governmental regulations. It will also invalidate your Hino warranty.

Read very carefully those sections which have signs “”, “**WARNING**” and “**CAUTION**”. They are particularly important.

	In this manual, you will also see a circle with a slash through it. This means “Do not do this”, or “Do not let this happen”.
 WARNING	Items that can result in death or severe personal injury if handled improperly.
 CAUTION	Items that can result in personal injury and/or property damage, such as vehicle damage, if handled improperly.
NOTICE	This is a warning against anything which may cause damage to the vehicle or its equipment if the warning is ignored.

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CAUTION LABELS

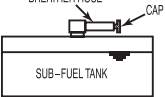
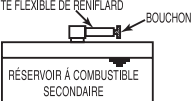
10. Fusible links

 注 意
<ul style="list-style-type: none"> 指定のヒューズブルリンク、ヒューズリレー以外は使用しないで下さい。
NOTICE
<ul style="list-style-type: none"> USE THE DESIGNATED FUSIBLE LINKS, FUSES AND RELAYS ONLY.

11. Air dryer (NABCO only)

注意 下記の場合、ドライヤの内部点検を行って下さい。 尚本品の取扱いは、車両取扱説明書を御読み下さい。 1) 1年又は、6万Km走行毎。 2) エアタンクドレンより水分がときどき排出されるか、オイルの排出が認められる場合。	PC.NO. 44830-3060
CAUTION Inspect the inside of dryer in such cases as paragraph 1) and 2). As to the handling of this product, kindly refer to the vehicle Service Manual.	1) Every one year or 60,000km in run. 2) Water or oil is present in the air reservoir when check before running.

12. Sub fuel tank

NOTICE TO DEALERS
FOR VEHICLES WITH DUAL FUEL TANK ONLY
BE SURE TO REMOVE THE CAP FROM THE SUB-FUEL TANK BREATHER HOSE AFTER THE VEHICLE IS DELIVERED TO THE DEALER.

AVIS AUX CONCESSIONNAIRES
POUR LES VÉHICULES UNIQUEMENT ÉQUIPÉS D'UN DOUBLE RÉSERVOIR À COMBUSTIBLE
NE PAS OUBLIER DE RETIRER LE BOUCHON DE LA CONDUITE FLEXIBLE DE RENIFLARD DU RÉSERVOIR À COMBUSTIBLE SECONDAIRE APRÈS QUE LE VÉHICULE AIT ÉTÉ LIVRÉ AU CONCESSIONNAIRE.

7 6 5 6 6 - 5 9 3 0

13. Power steering fluid reserve tank

CAUTION	ATTENTION
Inspection and maintenance of power steering fluid 1. Check the fluid level before starting the engine. 2. Intervals of the fluid change and the filter replacement; Initially, 3,000 miles (5,000 km). After that every 36,000 miles (60,000 km). 3. Recommended fluid; Automatic transmission fluid DEXRON II or its equivalents. 4. Do not let dust get in the fluid when filling or checking the fluid level.	Inspection et entretien du liquide de direction assistée 1. Vérifier le niveau du liquide avant de mettre le moteur en marche. 2. Intervalles de vidange de liquide et de remplacement de filtre; La première fois, après 3.000 milles (5.000 km). Ensuite, tous les 36.000 milles (60.000 km). 3. Liquide recommandé; Liquide de boîte de vitesses automatique DEXRON II ou des produits équivalents. 4. Veiller à ne pas laisser de la poussière s'infiltrer dans le liquide au moment d'effectuer le remplissage et la vérification du niveau de liquide.

No.	Part name	Remarks	Material
1	Emblem	☞ Top marks	P
2	Inner grip	Attached beside front pillar	P & S
3	Side turn signal lights		P
4	Clearance lights	Installed on both sides of the cab roof	P
5	Identification lights	Installed at the center front of the cab	P
6	Front turn signal lights	Installed beside the head lights	P
7	Rear combination lights	Installed at the rear end of the frame	P
8	Fuel filter with water separator	Installed at the rear of cab at on the left side of frame	P & S
9	Fender		P
10	Step		S
11	Splash board		P & S
12	Headlight bezel		P
13	Cooling fan	Engine part	P
14	Battery and cover (indicator component)	Indicator for checking fluid level	P
15	Mud guard		R
16	Rubber parts	Includes cooler hose if there is air-conditioned	R
17	Hood		P
18	Cab outer plate, front bumper		S
19	Caution plate		O
20	Wiper blade		R
21	Wiper cap	Pivot cover	P

3-point type Seat belts

Seat belts with ELR are equipped with at the seats for driver as well as assistant.

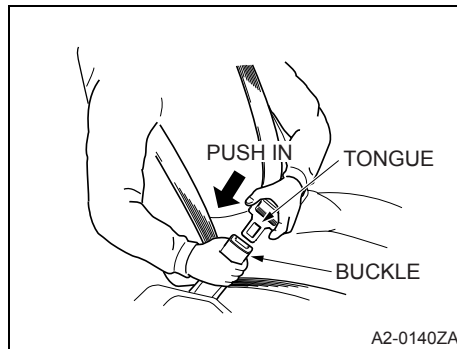
HINT:

ELR (Emergency Locking Retractor):

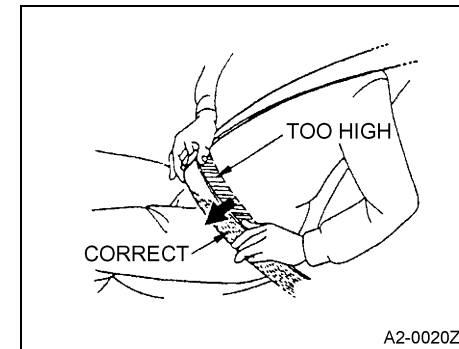
- Under normal conditions, it will expand and contract freely, according to the body movement. However, the driver's and assistant's bodies will automatically be fixed to the seat and protected, in case of a caution.
- Pull out the seat belt slowly when you wish to use it. It may get caught half way if you try to pull it out suddenly and quickly. In this case, return the belt back to the original position and pull it out again slowly.

⚠ WARNING

To help reduce the probability and severity of injury in an accident or sudden stop, all occupants should correctly use seat belts at all times while vehicle is moving. Read and follow all seat belt instructions.



- To fasten your belt, pull it out of the retractor and insert the tongue into the buckle.
- You will hear a click when the tongue locks into the buckle. Make sure that the connection is secure and the belt is not twisted. The seat belt length automatically adjusts to your size and the seat position.



- The retractor will lock the belt during a sudden stop or on impact. At other times you can move easily.
- Adjust the position of the lap and shoulder belts.
- Position the lap belt as low as possible on your hips, not on your waist. Failure to do so increases the chance of injury due to sliding under the lap belt during an accident.
- For your safety, do not place the shoulder belt under your arm.

4. Battery charge warning light

The battery charge warning light indicates the state of the battery charging circuit. When the starter key is turned to the "ON" position, the light comes on. It should go off when the engine is at idle speed or above. If it doesn't or it comes on while driving, stop the vehicle and have your vehicle checked and repaired at an authorized Hino dealer.

5. Coolant level warning light

The light comes on when the starter key is turned to the "ON" position. If the coolant level properly, the light turn off after few seconds. After the coolant level warning light comes on confirm the residual volume of coolant in the radiator. Check to see if coolant is leaking from the cooling system.

If it is, do the following:

1. If the reserve tank is empty:
If the leakage of coolant is found, bring your vehicle to an authorized Hino dealer to have it checked and repaired.
If there is no leakage of coolant, wait until the engine and radiator have cooled down and replenish the radiator and/or the reserve tank.
2. If there is coolant in the reserve tank:
Bring your vehicle to an authorized Hino dealer to have it checked and repaired.

CAUTION

If the warning light comes on and/or the beep sounds while driving, pull off the road immediately and stop your vehicle carefully.

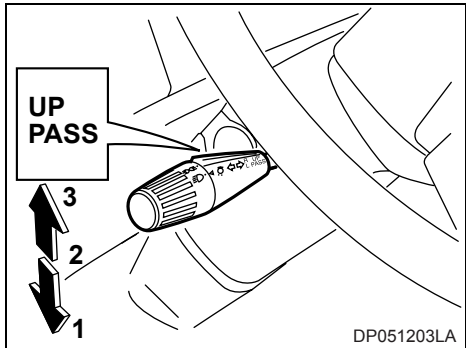
6. Oil pressure warning light

The oil pressure warning light indicates that the engine oil pressure is not high enough for safe operation.

CAUTION

If the warning light comes on and/or the beep sounds while driving, pull off the road and stop the engine immediately. Have authorized Hino dealer check and correct it. Otherwise, continued driving can result in serious damage to the engine.

(2) Beam control switch



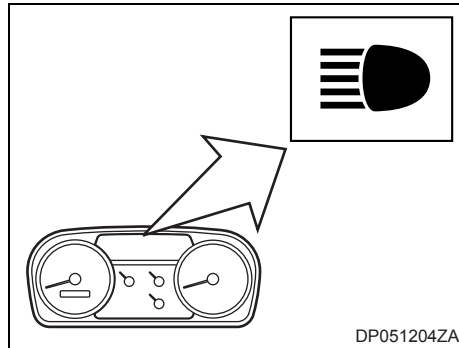
The beam control switch operates in the following manner:

High beam - Push down (Position 1)

The head lights come on at high beam. The high beam indicator light comes on while the high beam is used.

Low beam (Position 2)

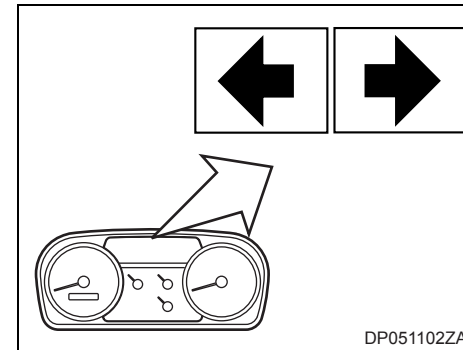
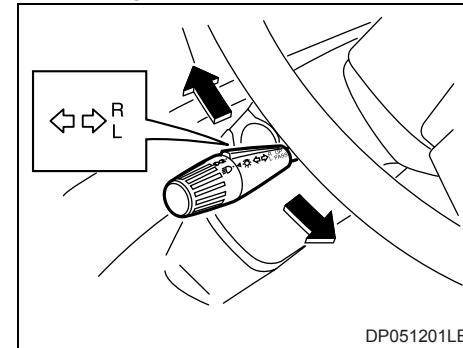
Pull the lever toward you for low beam. The high beam indicator light turns off.



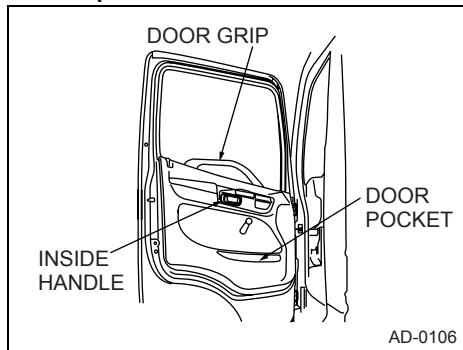
Passing - Pull up (Position 3)

The high beam headlight will stay lit as long as the lever is held up. The passing position can be used even when the beam control switch is in the "OFF" position.

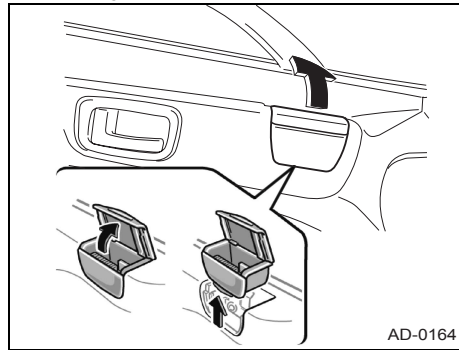
(3) Turn signal switch



5. Door pocket



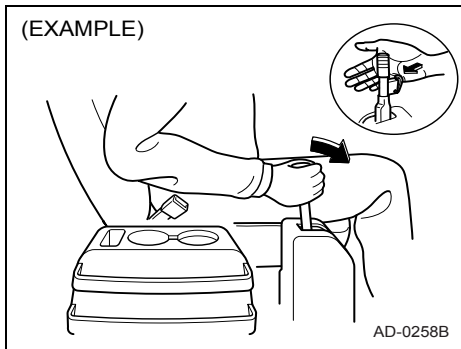
6. Ashtray



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 cover in completely. To remove the ashtray, pull it upward as shown in the illustration.

CAUTION

To reduce the chance of injury in case of an accident or sudden stop while driving, always push the ashtray back in completely after using.

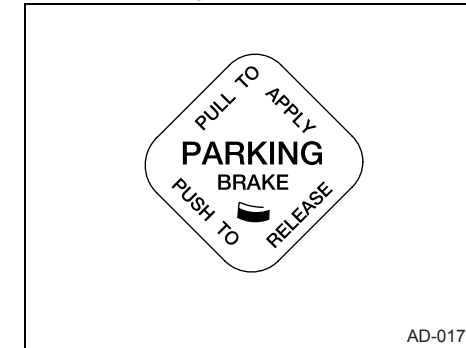


To release the parking brake:
Push in the lever release button. Then, while holding the button in, push the lever down all the way.

! WARNING

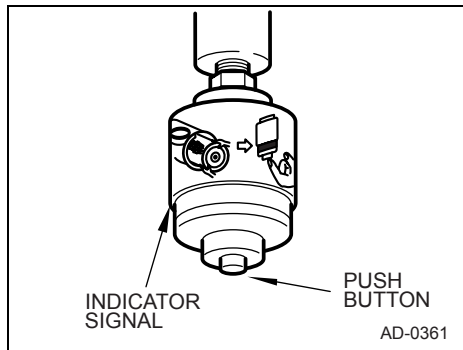
- **Avoid applying the parking brake while driving except for emergency purpose. Using of the parking brake while driving will make the rear wheel lock up and the vehicle will be unstable. Doing so can result in a serious accident.**
- **After using the parking brake in an emergency, inspect it to be sure it hasn't malfunctioned.**
- **Do not drive with the parking brake applied. This can cause accelerated abrasion and overheating of the brake components which can result in reduced braking effectiveness or a fire.**
- **When parking the vehicle, apply the parking brake firmly and make sure that your vehicle holds in place.**
- **When parking on a slope, apply the parking brake firmly and block all the wheels.**

**Parking brake control knob
[Full air brake type]**



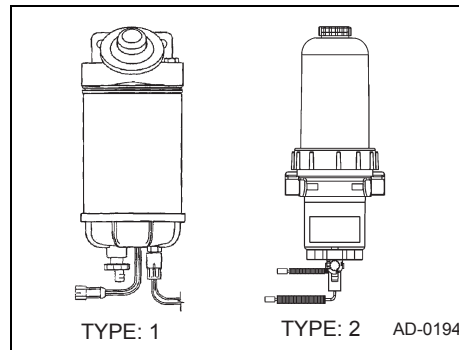
A powerful coil spring mechanically applies the rear axle brake shoes whenever air pressure against the spring is released.

Air cleaner service indicator



The air cleaner service indicator is installed near air cleaner. Check whether a red signal is shown on the service indicator for clogging of the air cleaner.

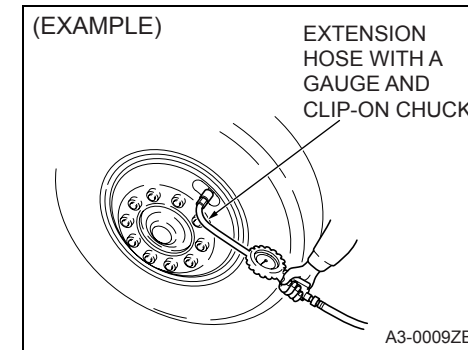
Fuel filter



The fuel filter with water separator is at the left side frame of the cab back.

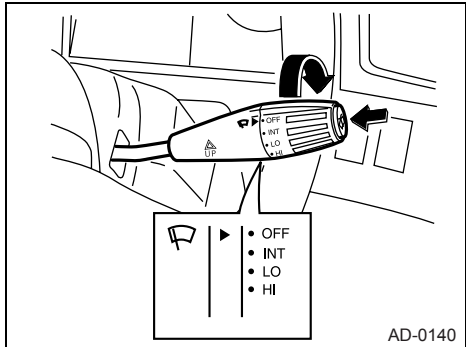
TYPE:1 RACOR®
TYPE:2 DAVCO®

Tires



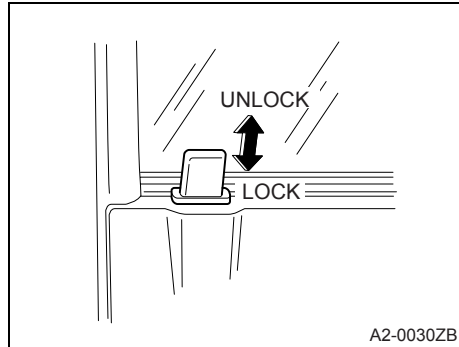
Check tires for proper air pressure, damage, and wear.

7. Windshield wiper and washer switch



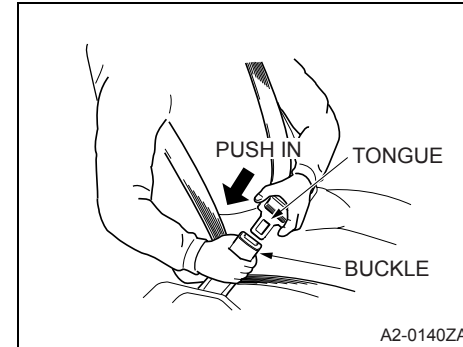
Check the windshield wiper and washer switch operation.

8. Door lock



Check door locks function.

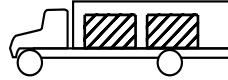
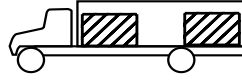
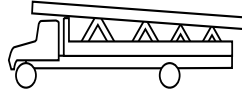
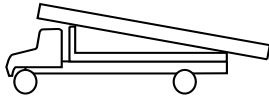
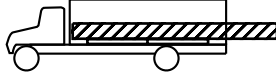
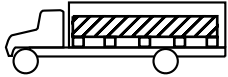
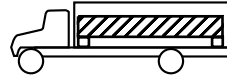




Seat belts



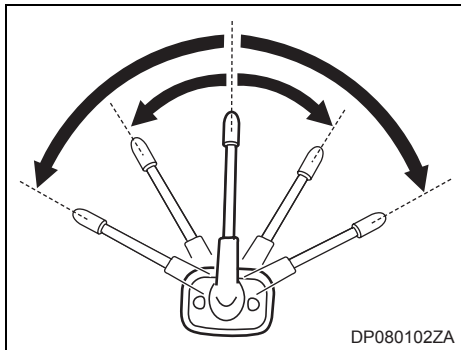
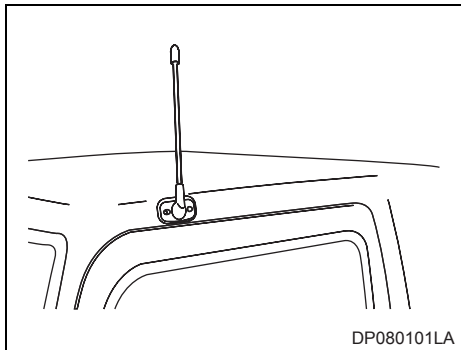
Check seat belts for damage and mounting.

! WARNING

Do not drive vehicle if there is any damage. Have seat belts and mounting repaired.

Item	Recommendable loading	Improper loading
1. Avoid uncentered loading, and distribute the cargo uniformly.		
2. 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.		
		
3. When load supports are used, use sufficient supports and position them properly.		
4. High and one-side loads should be avoided because of the danger of tilting when turning.		
5. Rope cargo securely. Heavy cargo especially must be fixed securely to the load carrying platform.		

RADIO ANTENNA



Erect the antenna when listening to the radio.

The antenna is installed on the upper side of the driver's side door.

The tilt angle of the antenna can be changed by 5 steps. Hold the lower portion of the antenna when tilting it.

The antenna is a removable screw-in type. When washing the vehicle in an automatic car wash, remove the antenna.

Then put the rubber cap that came with the vehicle in the antenna hole. Replace the antenna after washing.

HINT:

The radio cannot operate at its full performance if the antenna is not upright.

CASSETTE PLAYER

When you insert a cassette, the exposed tape should face to the right.

NOTICE:

Do not oil any part of the player and do not insert anything other than cassette tapes into the slot, or the tape player may be damaged.

COMPACT DISC PLAYER

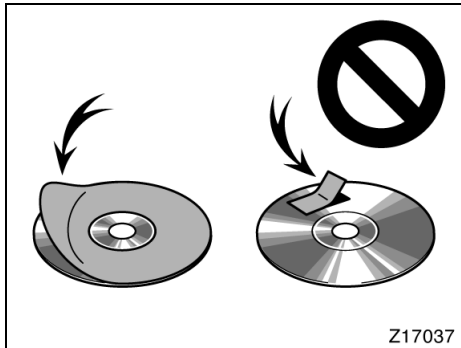
When you insert a disc, gently push it in with the label side up. (The player will automatically eject a disc if the label side is down.) The compact disc player will play from track 1 through the end of the disc. Then it will play from track 1 again.

NOTICE:

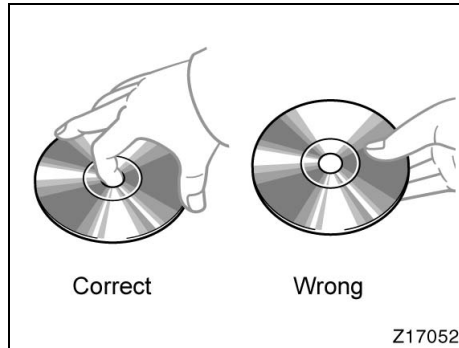
Never try to disassemble or oil any part of the compact disc player. Do not insert anything except a compact disc into the slot.

The player is intended for use with 4.7 in.(12 cm) disc only.

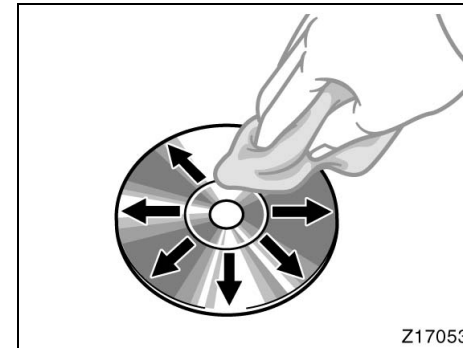
Labeled discs



NOTICE:
To prevent damage to the player or changer, do not use special shaped, low quality or labeled discs such as those shown in the illustrations.



- Handle compact discs carefully, especially when you are inserting them. Hold them on the edge and do not bend them. Avoid getting fingerprints on them, particularly on the shiny side.
- Dirt, scrapes, warping, pin holes, or other disc damage could cause the player to skip or to repeat a section of a track. (To see a pin hole, hold the disc up to the light.)
- Remove discs from the compact disc player when you are not listening to them. Store them in their plastic cases away from moisture, heat, and direct sunlight.



To clean a compact disc: Wipe it with a soft, lint-free cloth that has been dampened with water. Wipe in a straight line from the center to the edge of the disc (not in circles). Dry it with another soft, lint-free cloth. Do not use a conventional record cleaner or anti-static device.

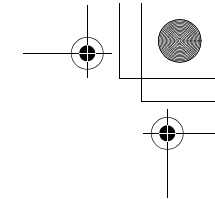
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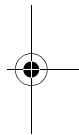
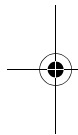
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SECTION 5

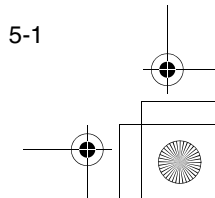
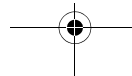
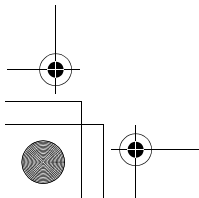
IN AN EMERGENCY

EMERGENCY STARTING (JUMP STARTING)	5-2
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Read entire manual before using vehicle. Failure to follow instructions and safety precautions could result in death, serious injury and/or damage.

5-1



JACK-UP THE VEHICLE

⚠ CAUTION

WARNING

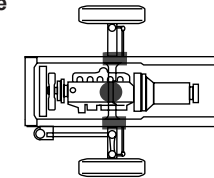
Improper jacking up of the vehicle can result in serious injury or death. Read and follow all of these instructions.

- When jacking up the vehicle, do not place your body under the vehicle. Doing so could result in death or serious injury.
- Do not work under vehicle after it has been jacked up without placing the vehicle on jack stands or other appropriate steady supports.
- Securely apply the parking brake and properly block the other tires with wheel stoppers.
- When changing tires always park the vehicle on solid, level ground. Never attempt to change tires on soft ground or on a slope. This is very dangerous and can lead to sudden slipping of the jack which may result in personal injury and/or property damage.

- Place the jack at the proper jacking location at the lower surface of the axle (see diagram on next page). Using any other point could result in the vehicle falling off the jack.
- If oil etc. is sticking to the jack-up point, wipe it off completely before applying the jack.
- Do not start engine while jacking up the vehicle.
- When it is necessary to have the vehicle jacked up for a long time, place jack supports or other appropriate under the vehicle.
- Do not use more than two jacking up the vehicle.
- Do not raise the jack higher than necessary.
- Do not place anything on top or below the jack when jack up the vehicle.
- The jack provided with the vehicle is specifically for that vehicle. And do not use any other jack with this vehicle.

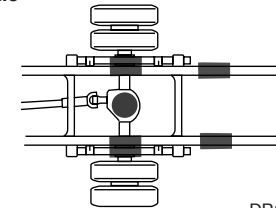
JACK-UP POINT

Front axle



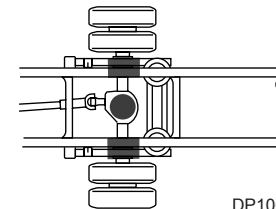
DP100506ZB

Rear axle



DP100507ZA

Rear axle (Air suspension)



DP100507ZA-1

5. Records shall be kept by parties conducting activities included in paragraphs (1) through (4) 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 (4) of this section.

A. 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.

B. 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.

C. 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.

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

GENERAL PRECAUTIONS

Some recommended and standard maintenance services for your vehicle are mentioned in this section. When performing maintenance on your vehicle be careful not to get injured by improper work.

If you have any questions about performing maintenance, consult an authorized Hino dealer.

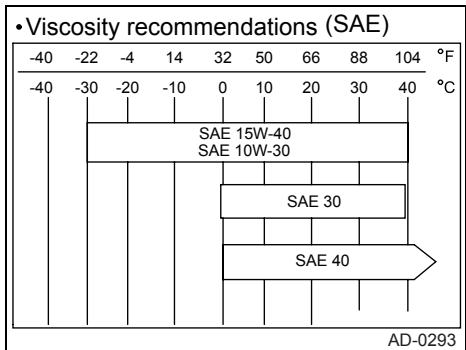
WARNING

Failure to properly or completely perform recommended and standard maintenance on your vehicle can cause a vehicle accident or malfunction resulting in serious injury, death or property damage.

Maintenance operations:

A = Check and adjust if necessary; **I** = Inspect, clean and correct or replace as necessary;
L = Lubricate; **R** = Replace or change; **T** = Tighten to specified torque

SERVICE INTERVALS: (Odometer reading or months, whichever comes first.)	Odometer ranging		Every												Months (every)	
	Miles (x 1,000)	First	1	6	9	10	12	15	18	20	24	30	36	50		72
	Kilometers (x 1,000)	1.6	10	15	16	20	25	30	32	40	50	60	80	120		
MAINTENANCE ITEMS																
PARKING BRAKE FOR CENTER PARKING TYPE																
Lining wear and clearance between drum and lining													I		12	
Drum wear and damage													I		12	
Control lever wear and damage													I, L		12	
Control cable slack and damage					A										4	
Drum mounting nuts					T										4	
PARKING BRAKE FOR WHEEL PARKING TYPE																
Leakage, damage and tightness			A												2	
Control valve and relay valve function													I		12	
Control valve and relay valve rubber parts													R		12	
Spring brake chamber rubber parts													R		12	
WHEEL AND TIRE																
Front wheel bearing turning torque													A		12	
Front wheel bearing lock nut													A		12	
Front wheel bearing grease													R		12	
Wheel nut		T	A												2	
Wheel disc damage			A												2	



D. Additives:

Engine oil additives or break-in oil should not be used.

5. Engine oil capacity (Drain and refill)

		US Qt	Liter
J05D	With filter	10.7	10.1
	Without filter	8.5	8.0
J08E	With filter	16.2	15.2
	Without filter	13.3	12.5

6. Replacement service interval oil and filter

The first replace: 3,000 mile (5,000 km)

Periodic service interval:

	Type of operation	Hino Genuine oil	Non Genuine oil
J05D	Type 1	9,000 mile (15,000 km)	6,000 mile (10,000 km)
	Type 2	12,000 mile (20,000 km)	6,000 mile (10,000 km)
J08E	Type 1	12,000 mile (20,000 km)	6,000 mile (10,000 km)
	Type 2	20,000 mile (32,000 km)	10,000 mile (16,000 km)

7. Type of operation details

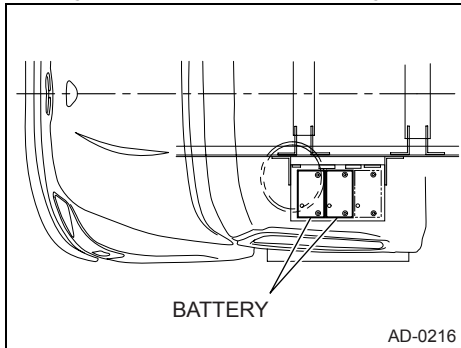
Type 1

- a. Un-paved road
- b. Dusty road
- c. Heavy long distance transport
- d. Mountain road operations
- e. Sort-haul distribution operations
- f. Construction operations (off-road)
- g. Light duty in city operations
- h. Monthly mileage up to 10,000 mile (16,000 km)

Type 2

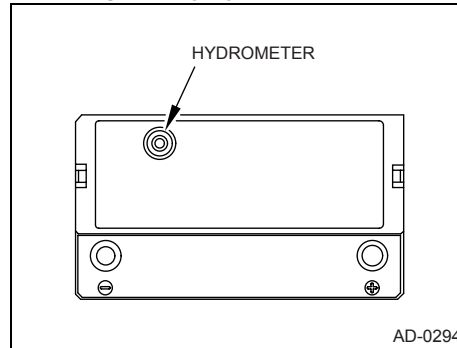
- a. Light long duty distance transport
- b. Mainly on motor ways and express highways
- c. Monthly mileage over 10,000 mile (16,000 km)
- d. Paved and flat road operations

Battery (Maintenance-free battery)



Your vehicle is equipped with maintenance-free batteries installed on the brackets of the left side frame. The hydrometer on the top of the battery provides a guide regarding condition of the charge and the electrolyte level. When replacing, use the same model as the original battery or its equivalent.

Checking battery hydrometer



Check the battery condition by the hydrometer color.

1. Good condition

Green eye: DELPHI® battery
Blue eye: FURUKAWA® battery

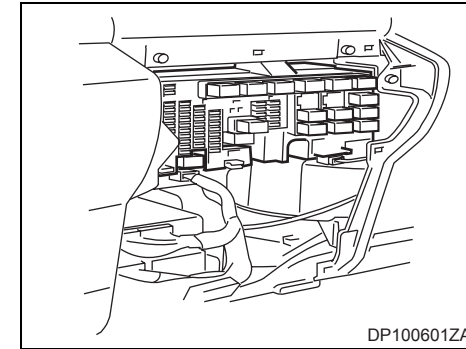
2. Charging necessary

Dark eye: Have the battery checked by an authorized Hino dealer.

NOTICE:

Do not refill the battery with water.

Fuses



The fuse block is located inside the dashboard in front of the assistant's seat. The cause of an overload current should be determined and corrected before a burnt out fuse is replaced.

Always replace with the correct fuse. Placing a wrong fuse can result in damage to electric units.

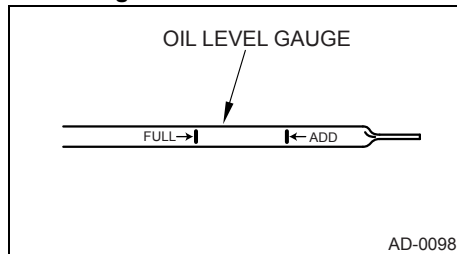
The amperage of each fuse is as follows.

MAINTENANCE PROCEDURES

Daily inspection

The following daily maintenance should be performed to ensure efficient operation of the vehicle. Performing the daily maintenance is the operator's responsibility. Make it a habit to check these points every day before operating the vehicle.

Before starting the engine Check engine oil level



Check the level gauge for the engine oil with the vehicle parked on level ground. After the engine has been stopped, wait a minimum of 10 minutes before checking the level. Pull out the level gauge, wipe it with a clean cloth and put it back all the way. Pull out the gauge again and check the level. The oil level should be kept between the "FULL" and "ADD." marks.

Do not operate the vehicle with the oil level below the "ADD." mark. The quantity of oil indicated between marks is below. When the engine is cold, added oil will not reach the oil pan fast enough to provide a true indication of oil level.

	US Qt	Liters
J08E	3.6	3.4
J05D	2.9	2.7

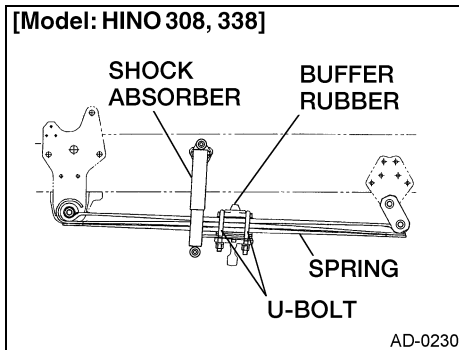
Be careful not to overfill. Otherwise increased oil consumption or deterioration of the exhaust emission can result.

CAUTION

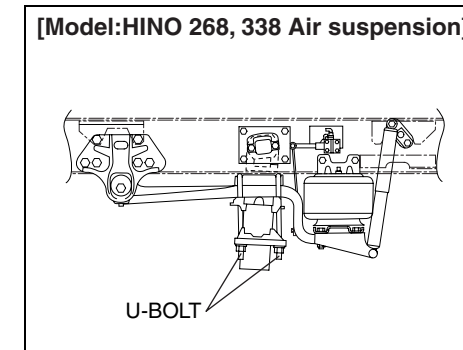
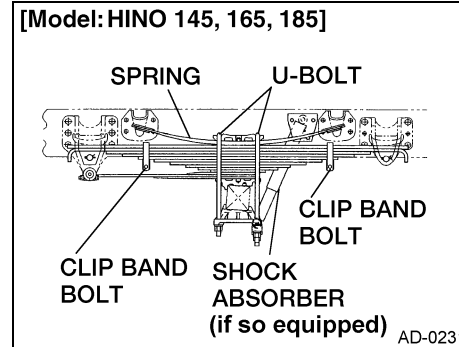
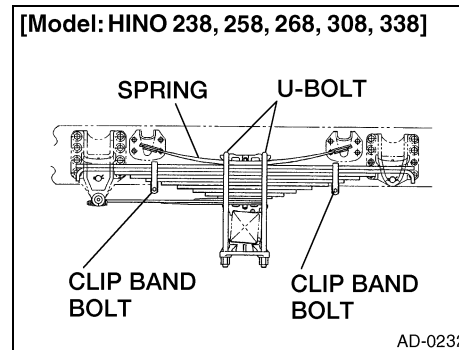
When adding oil, be careful not to spill oil. When the exhaust system is still hot, spilled oil on the hot exhaust system can cause personal injury and/or property damage due to fire. Do not spill oil on the electric system. If oil is spilled, carefully wipe it off with a cloth.

Replace the filler cap after adding oil. Install the level gauge securely.

Rear axle



Front U-bolts tightening torque:
 [Model: HINO 145,165, 185]
 225 – 335 N·m
 (165 – 247 lbf-ft., 2,280 – 3,420 kgf-cm)
 [Model: HINO 238, 258, 268, 308, 338]
 370 – 475 N·m
 (273 – 347 lbf-ft., 3,780 – 4,820 kgf-cm)



Rear U-bolts tightening torque:
 [Model: HINO 145,165, 185]
 390 – 585 N·m
 (288 – 430 lbf-ft., 3,980 – 5,960 kgf-cm)
 [Model: HINO 238, 258, 268, 308, 338]
 490 – 735 N·m
 (361 – 541 lbf-ft., 5,000 – 7,490 kgf-cm)
 [Model: HINO 268, 338 Air suspen-
 sion]
 545 – 610 N·m
 (400 – 450 lbf-ft., 5,560 – 6,220 kgf-cm)

PERIODICAL MAINTENANCE

Scheduled maintenance procedures

The maintenance items mentioned in this section are relatively simple and easy.

If you have any question about maintenance service, contact an authorized Hino dealer. Refer to TABLE 1 "RECOMMENDED MAINTENANCE SERVICE" for maintenance items and intervals.

The numbers in parenthesis following the titles correspond to the numbers of each maintenance item in TABLE 1 "RECOMMENDED MAINTENANCE SERVICE."

First 3,000 – 5,000 miles (5,000 – 8,000 km) (Highway use)

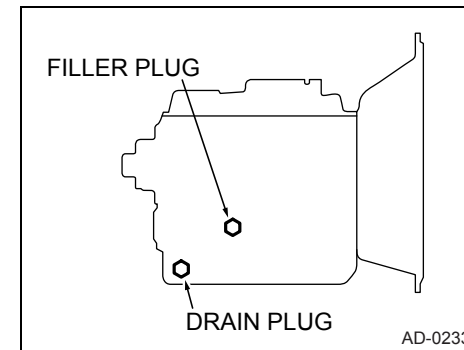
First 30 hours (Off-highway use)

1. Change manual transmission gear oil



CAUTION

Do not work on the transmission while it is still hot. This can result in personal injury.



- Park the vehicle on level ground.
- Clean around the filler and drain plugs.
- Remove the filler plug.
- Remove the drain plug and drain.
The used gear oil should be drained into a suitable container.
- Clean the drain plug with a magnet and tighten the plug with a new gasket.

Torque: 62 – 74 N·m

(45 – 55 lbf·ft., 635 – 755 kgf·cm)

Every 10,000 miles (16,000 km)

1. Check and add manual transmission gear oil



Do not work on the transmission while it is still hot. This can result in personal injury.

- a. Park the vehicle on level ground.
- b. Remove the filler plug and check the level.
- c. The oil should be at the lower end of the hole.
- d. Add if necessary.
- e. Tighten the filler plug.

**Filler plug Torque: 34 – 47 N·m
(25 – 35 lbf·ft, 350 – 480 kgf·cm)**

Transmission gear oil:
Refer to TABLE 7 “RECOMMENDED LUBRICANTS”

2. Check and add automatic transmission fluid.

For inspection and replenishment procedure, refer to page 7-64.

3. Lubricate clutch release sleeve and shaft (Solo® clutch)

Grease:

Refer to TABLE 7 “RECOMMENDED LUBRICANTS”

Greasing point:

Refer to TABLE 8 “LUBRICATION CHART”

For lubricate procedure, refer to page 7-69.

4. Check clutch facing wear (Solo® clutch)

5. Check the rubber bushing crack and looseness of transverse rod (Air suspension)

Every 12,000 miles (20,000 km)

1. Check fuel hoses and pipes

- Supply pump – Fuel filter
 - Fuel tank – Fuel filter
 - Fuel filter – Supply pump
 - Engine – Fuel tank
- a. Check fuel hoses and pipes for damage. Replace if necessary.
 - b. When installing fuel hoses be careful that they do not contact other parts.
 - c. After replacement, always bleed the fuel system in accordance with page 7-21. Also check for leaks.

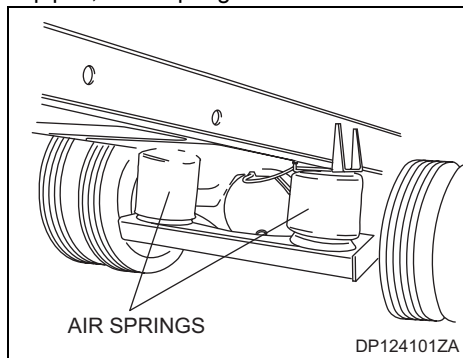
2. Check and retighten engine air intake hose and clamps

Check hose clamps of the air intake system and tighten if necessary. Check hoses for damage. Replace hoses if necessary.

7. Air springs

a. CHECK OF AIR LEAKAGE

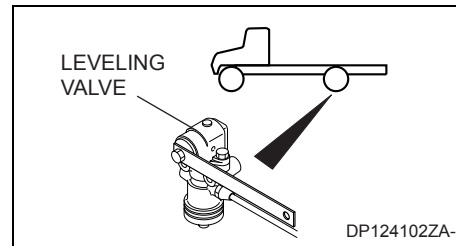
- Check if there is any leakage from the air pipes, or air springs.



- If the air pressure falls due to air leakage, etc., this may bring forth crushes or folds in the air springs.

b. CHECK THE FOLLOWING POINTS

- Check any looseness and/or damage at the mounting and connecting positions of the air springs.
- Check any looseness and/or damage at the leveling valve and the connecting section of the rear axle.



c. CHECK OF THE AIR SPRINGS

- Check the air springs for any eventual damages and cracks. If any damage or crack is found out, replace the air spring with a new one.
- Check if any sand or stones are embedded at the lower part of the air springs. If so, remove them carefully so as not to damage the air spring.

⚠ CAUTION

If you continue to drive your vehicle with sand, stones, etc. embedded, you may damage the air springs and this can be a cause of air leakage.

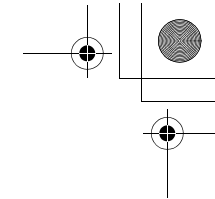
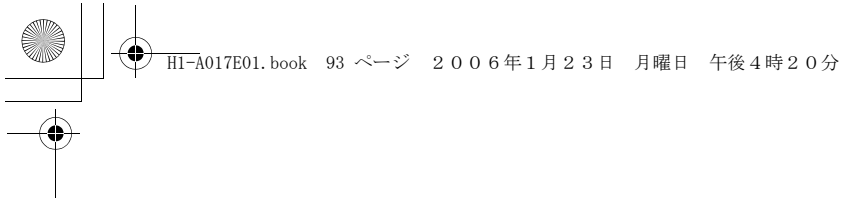
d. VEHICLE POSTURE

- Check if the load carrying platform comes down temporarily the moment that the vehicle is loaded and if it returns to almost the same vehicle height as that of an unloaded vehicle in a few seconds later.

NOTICE:

If the load carrying platform height does not return to almost the same height as that of unloaded condition, it is presumed that the leveling system and/or the air springs do not function properly.

In such a case, contact your nearest authorized HINO dealer to have your vehicle inspected or adjusted.



Every 24 months

1. Check and replace starter brush

Measure length of the starter brushes, if those length are shorter than service limit of below, replace all starter brushes.

	Standard	Service limit
J05D	0.807 in. (20.5 mm)	0.551 in. (14.0 mm)
J08E	0.827 in. (21.0 mm)	0.591 in. (15.0 mm)

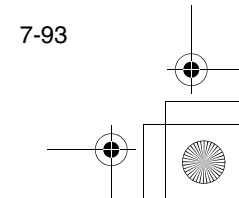
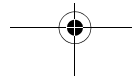
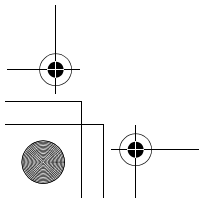
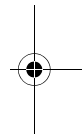
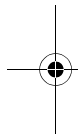
2. Inspection intercooler hoses

When there is air leakage from the hose, the performance will drop, fuel consumption will increase, and engine trouble may also occur, so that they should be checked regularly for cracks on the outer circumference, loosening of caulked parts, etc.

Every 36 months

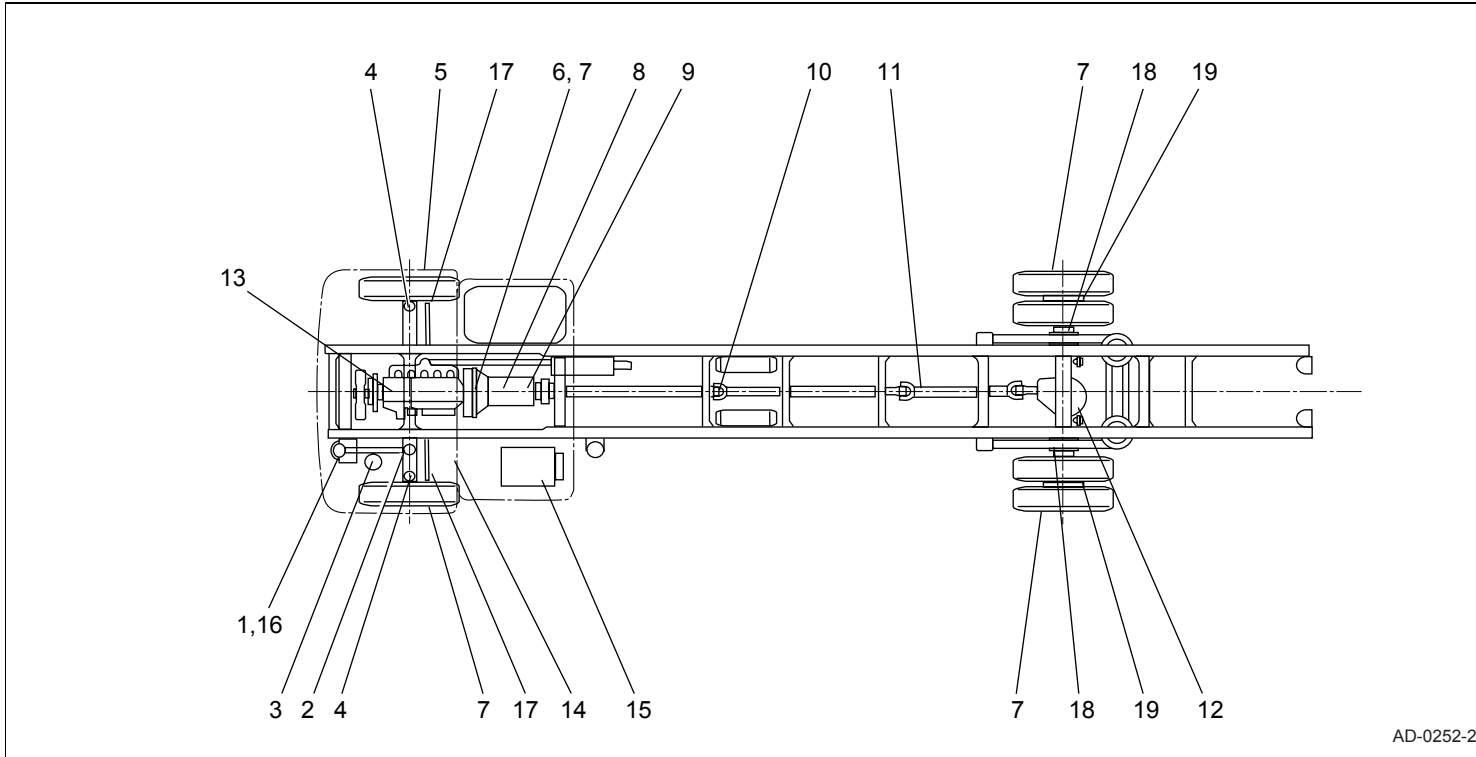
1. Replace Hino genuine long life coolant

Replace procedures refer to 7-87.



[For Engine only]

Bolt size (Bolt with washer)	The head number of "4" bolt			The head number of "7" and "8" bolt			The head number of "9" bolt		
	N·m	lbf·ft	kgf·cm	N·m	lbf·ft	kgf·cm	N·m	lbf·ft	kgf·cm
6 mm dia. P1	6	4.3	60	10	7.2	100	12.5	9	130
8 mm dia. P1.25	13.5	10	140	25	18	250	31	23	320
10 mm dia. P1.25	29	22	300	51	38	520	64	47	650
10 mm dia. P1.5	26	20	270	47	35	480	59	43	600
12 mm dia. P1.25	54	40	550	93	69	950	120	87	1,200
12 mm dia. P1.75	49	36	500	83	61	850	110	80	1,100
14 mm dia. P1.5	83	61	850	145	108	1,500	185	137	1,900
14 mm dia. P2	74	54	750	130	98	1,350	170	127	1,750



AD-0252-2

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