General Information



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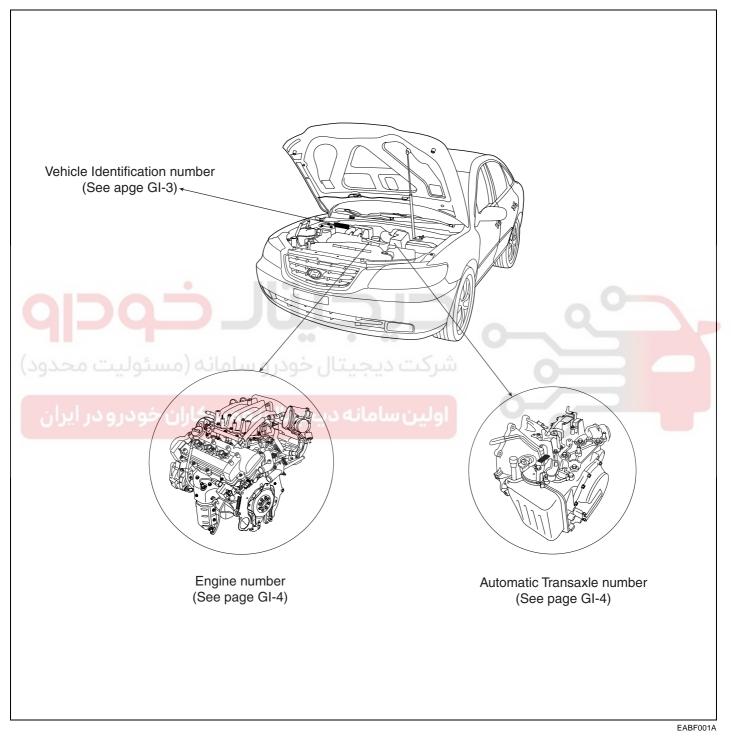
GENERAL INFORMATION

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GENERAL

IDENTIFICATION NUMBER

LOCATIONS E77A539D



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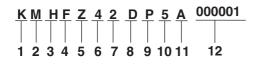
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GENERAL

IDENTIFICATION NUMBER DESCRIPTION

VEHICLE IDENTIFICATION NUMBER



EABF002A

- 1. Geographic zone - K : Korea
- Manufacturer
 M : Hyundai motor company
- 3. Vehicle type- H : Passenger
- 4. Vehicle line - F : GRANDEUR/AZERA
- 5. Model & Series
 - X : STANDAD (L)
 - Y : DELUXE (GL)
 - Z : SUPER DELUXE (GLS)
 - A : GRAND SALON (GDS)
 - B : SUPPER GRAND SALON (HGS)
- Body type
 4 : Sedan
- 7. Restraint system
 - 0 : None
 - 1 : Both side Active belt
 - 2 : Both side Passive belt
 - 3 : Driver side Active belt & Air bag
 - Passive side Active belt or Passive belt
 - 4 : Depowered Air bag
 - 5 : Advanced Air bag

- 8. Engine type
 - D : Gasoline 3.3 - F : Gasoline 3.8
 - F . Gasoline 3.0
- 9. Check digit or others - P : LHD
 - R : RHD
- 10. Production year - 5 : 2005, 6 : 2006
- 11. Plant of production - A : A-SAN (korea)
- 12. Vehicle production sequence number - 000001 ~ 999999

PAINT CODE

CODE	COLOR
NW	Noble White
EB	Ebony Black
ОТ	Special Color
N2	Pure Pearl white
S7	Sleek Silver
B7	Grace Beige
F9	Deep Purple
W2	Presting Dark R
M9	Bay Leaf
Т9	Twilight Blue
G6	Charming Gray
Z9	Crystal Silver

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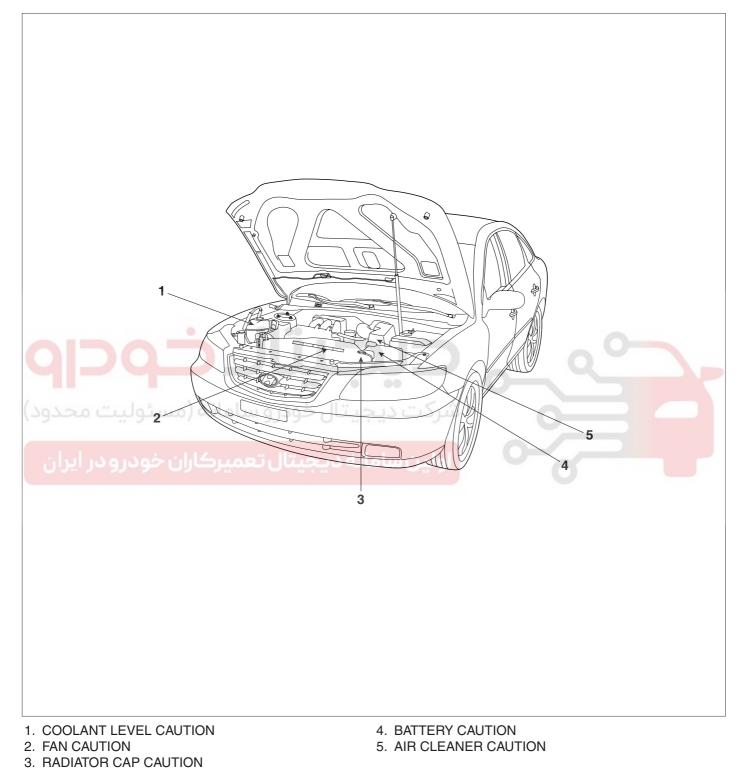
GENERAL INFORMATION ENGINE IDENTIFICATION NUMBER **AUTOMATIC** 6 D A 5 000001 5 K BD 🗌 000001 G U 2 3 4 5 6 2 3 5 6 1 1 4 EABF003A EABF005A 7. Modle Engine fuel 1. - G : Gasoline - U : A5HF1 2. Engine range 8. Production year - 4 : 4 cycle 6 cylinder - 5 : 2005, 6 : 2006, 7 : 2007 3. Engine development order 9. Gear ratio - K : 3.333 - D : Lambda engine 4. Engine capacity 10. Detailed chassification - A : 3778 cc (Gasoline) - BD : 3.3D - B : 3342 cc (Gasoline) - FD : 3.8D 5. Production year 11. Spare - 5 : 2005, 6 : 2006 12. Transaxle production sequence number - 000001 ~ 999999 Engine production sequence number 6. - 000001 ~ 999999

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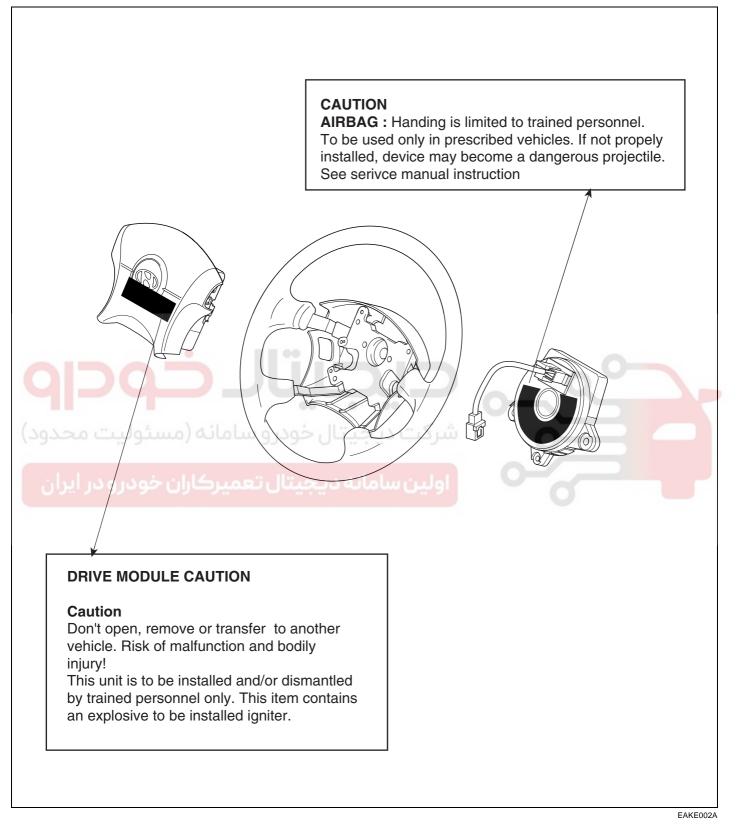
WARNING / CAUTION LABEL LOCATIONS E4F6ABBC



EABF006A

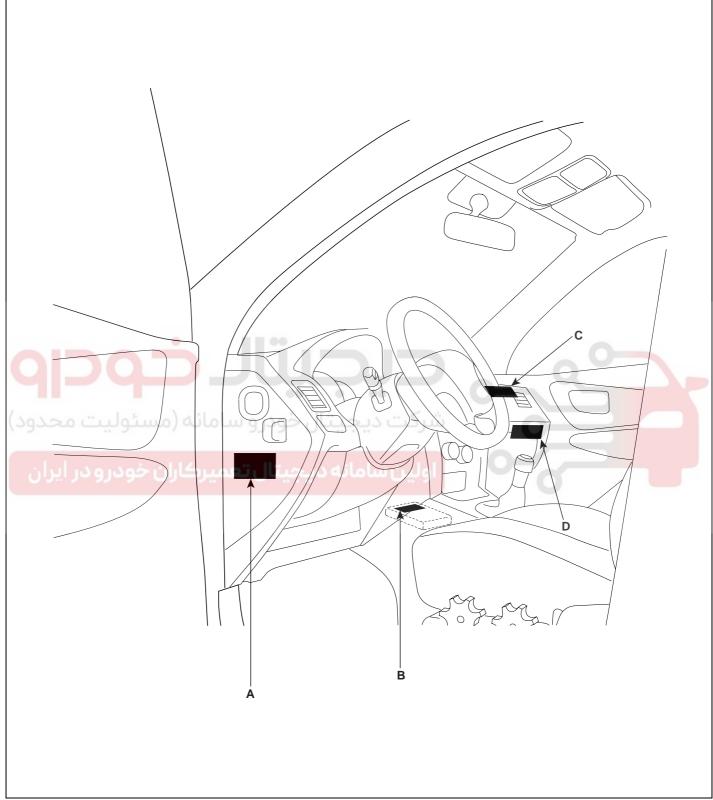
GENERAL INFORMATION

AIR BAG WARNING / CAUTION LABEL



GENERAL

AIR BAG WARING / CAUTION LABEL (CONT'D)



KAQF400A

GENERAL INFORMATION

WARNING / CAUTION LABEL (CONT'D)

A : WARNING

SEE OWNER'S MANUAL.

This car is equipped a side airbag for each front seat.Do not use any accessory seat covers.

- Use of other seat covers could reduce the effect of the system.
- Do not install any accessories on the side or near the side airbag.
- Do not use excessive force on the side of the seal.
- For further information, see the owner's manual.

B : CAUTION AIRBAG ESPE UNIT

Detach connector before unmounting. Assemble strictly according to manual instructions.

C : PASSENGER MODULE CAUTION

CAUTION

Don't open, remove or transfer to another vehicle. Risk of malfunction and bodily injury! This unit is to be installed and/or dismantled by trained personnel only. This item contains an explosive to be installed igniter.

D : SUPPLEMENTAL RESTRAINT SYSTEM

- (AIRBAG) INFORMATION
 - The airbag is a Supplement Restraint System (SRS).
 - You must always wear the seat belts.
 - The airbag system condition is normal when the "SRS" lamp in the cluster flashes approximately 6 times after the ignition key is turned on and then goes off.
 - If any of the following condition occur, the system must be serviced.
 - "SRS" lamp does not light up when the key is turned on.
 - "SRS" lamp stays lit or flashes continuously.
 - The airbag has inflated.
 - The airbag system must be inspected by an authorized dealer ten years after the vehicle manufacture date shown on the certification label, located on left front door opening area.

WARNING

Failure to the above instructions may result in injury to you or other occupants in the vehicle

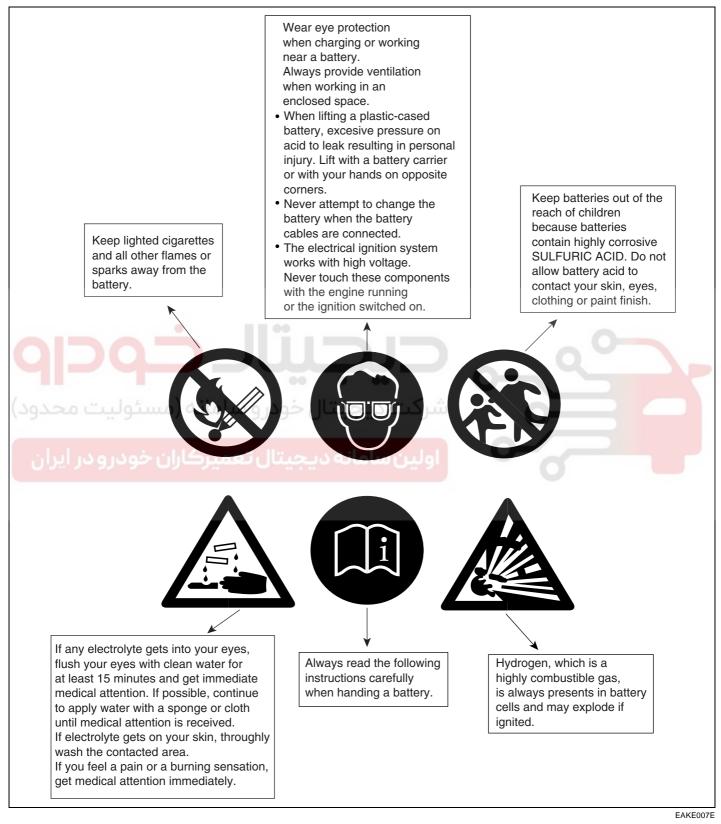
 See the "SRS" section in Owner's Manual for more information about airbags.

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BATTERY CAUTION LABEL

DESCRIBTION E066FADE



LIFT AND SUPPORT POINTS

WARNING

When heavy rear components such as suspension, fuel tank, spare tire, tailgate and trunk lid are to be removed, place additional weight in the luggage area before hoisting. When substatial weight is removed from the rear of the vehicle, the center of gravity may change and cam cause the vehicle to tip forward on the hoist.

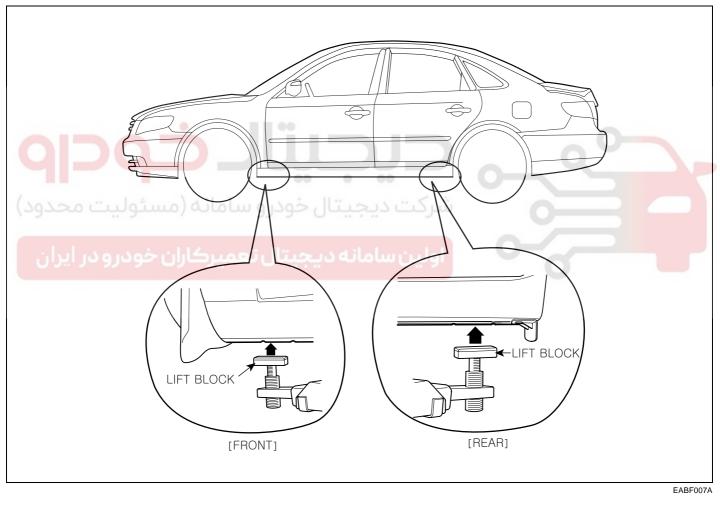
NOTE

 Since each tire/wheel assembly weights approximately 30lbs (14kg), placing the front wheels in

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the luggage area can assist with the weight distribution.

- Use the same support points to support the vehicle on safety stands.
- 1. Place the lift blocks under the support points as shown in the illustration.
- 2. Raise the hoist a few inches (centimeters) and rock the vehicle to be sure it is firmly supported.
- 3. Raise the hoist to full height to inspect the lift points for secure support.



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TOWING

If the vehicle needs to be towed, call a professional towing service. Never tow vehicle with just a rope or chain. It is very dangerous.

EMERGENCY TOWING

There are three propular methods of towing a vehicle :

Flat - bed Equipment- The operator loads the vehicle on the back of truck. This is best way of transporting the vehicle.

Wheel Lift Equipment- The tow truck uses two pivoting arms that go under the tires (front or rear) and lift them off the ground. The other two wheels remain on the ground.

Sling type Equipment- The tow truck metal cables with hooks on the ends. These hooks go around parts of the frame or suspension, and the cables lift that end of the vehicle off the ground. The vehicle's suspension and body can be seriously damaged if this method of towing is attempted.

If the vehicle cannot be transported by flat-bed, if should be towed with the front wheels off the ground. If due to damage, the vehicle must be toward with the front wheels on the ground, do not following :

Manual Transmission

- Release the parking brake.
- Shift the transmission to neutral

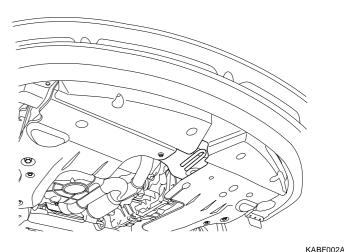
Automatic Transmission

- Release the parking brake.
- Start the engine.
- Shift to [D] position, then [N] position.
- Turn off the engine.

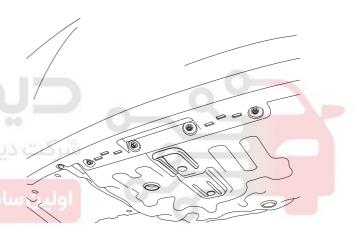
🕐 CAUTION

- Improper towing preparation will damage the transmission. Follow the above procedure exactly. If you cannot shift the transmission or start the engine(automatic transmission), your vehicle must be transported on a flatbed.
- It is the best to tow vehicle no farther than 19miles (30km), and keep the speed below 30mph (50km/h).
- Trying to lift or tow your vehicle by the bumpers will cause serious damage. The bumpers are not designed to support the vehicle's weight.





REAR :



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TIGHTENING TORQUE TABLE OF STANDARD PARTS

		Torque Nm	(kg.cm, lb.ft)
		Head Mark 4	Head Mark 7
			(7)
EAKE004E	KASD100Y	EAKE004F	EAKE004G
M5	0.8	3 ~ 4 (30 ~ 40, 2.2 ~ 2.9)	5 ~ 6 (50 ~ 60, 3.6 ~ 4.3)
M6	1.0	5 ~ 6 (50 ~ 50, 3.6 ~ 4.3)	9 ~ 11 (90 ~ 110, 6.5 ~ 8.0)
M8	1.25	12 ~ 15 (120 ~ 150, 9 ~ 11)	20 ~ 25 (200 ~ 250, 14.5 ~ 18.0)
M10	1.25	25 ~ 30 (250 ~ 300, 18 ~ 22)	30 ~ 50 (300 ~ 500, 22 ~ 36)
M12	1.25	35 ~ 45 (350 ~ 450, 25 ~ 33)	60 ~ 80 (600 ~ <mark>800, 43 ~ 5</mark> 8)
M14	1.5	75 ~ 85 (750 ~ 850, 54 ~ 61)	120 ~ 140 (1,200 ~ 1,400, 85 ~ 100)
M16	1.5	110 ~ 130 (1,100 ~ 1,300, 80 ~ 94)	180 ~ 210 (1,800 ~ 2,100 <mark>, 130 ~ 150</mark>)
(Sol M18)	بامانە1.5سئول	160 ~ 180 (1,600 ~ 1,800, 116 ~ 130)	260 ~ 300 (2,600 ~ 3,00 <mark>0, 1</mark> 90 ~ 21 <mark>5)</mark>
M20	1.5	220 ~ 250 (2,200 ~ 2,500, 160 ~ 180)	360 ~ 420 (3,600 ~ 4,200, 260 ~ 300)
M22	ميرڪ1.5 خود	290 ~ 330 (2,900 ~ 3,300, 210 ~ 240)	480 ~ 550 (4,800 ~ 5,500, 35 <mark>0 ~ 40</mark> 0)
M24	1.5	360 ~ 420 (3,600 ~ 4,200, 260 ~ 300)	610 ~ 700 (6,100 ~ 7,000, 44 <mark>0 ~ 50</mark> 5)

🕡 ΝΟΤΕ

- 1. The torques shown in the table are standard values under the following conditions :
 - Nuts and bolts are made of galvanized steel bar.
 - Galvanized plain steel washers are inserted.
 - All nuts, bolts and plain washers are dry.
- 2. The torques shown in the table are not applicable
 - When spring washers, toothed washers and the like are inserted.
 - If plastic parts are fastened.
 - If self-tapping screws or self-locking nuts are used.
 - If threads and surfaces are coated with oil.
- 3. If you reduce the torques in the table to the percentage indicated below, under the following conditions, if will be the standard value.
 - If spring washers are used : 85%
 - If threads and bearing sufaces are stained with oil : 85%

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LUBRICANTS

RECOMMENDED LUBRICANTS

Pa	rts	OIL & GREA	SE STANDARD
Engine Oil	Gasoline	API SJ or SL	SAE 5W -20
		If 5W-20 engine oil is not available, engine oil for corresponding tempe	5W-30 or secondary recommended rature range can be used.
Transaxle	Auto	DIAMOND ATF SP-III, SK ATF SP	-111
Power Steering		PSF -3	
Breake Steering		DOT 3, DOT 4 or equivalent	
Coolant		Ethlyene glycol base for aluminium	n radiator
Transaxle linkage, pa mechanism, hood, do tailgate latch, door hir	or latch, seat adjuster,	Multipurpose grease NIGL grade #	<i>‡</i> 2

WARNING

Always use Genuine Hyundai parts and recommedended fluid.

Using any other type of parts and fluid can cause serious damaged if the vehicle.RECOMMENDED LUBRICANTS

LUBRICANTS CAPACITIES

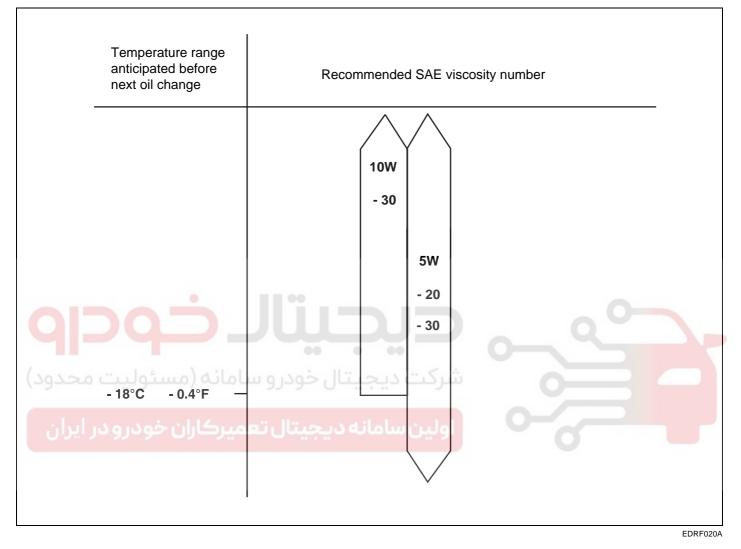
Des	scription	Capacities : [liter (U.S.qus, Imp.qts)]
Engine oil	Oil pan	5.5 (5.81, 4.84)
(تيستونيت شكود)	Oil filter	0.4 (0.42, 0.35)
المخدود البار	Total	6.4 (6.76, 5.63)
Cooling system	المالة بالتجيبان تعميرت	8.6 (9.09, 7.57)
Automatic transaxle		10.9 (11.52, 9.59)
Power steering		1.0 (1.06, 0.88)

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SELECTION OF ENGINE OIL

Recommended API classification : SJ OR SL ABOVE

RECOMMENDED SAE VISCOSITY GRADES :



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For best performance and maximum protection of all types of operation, select only those lubricants which

- 1. Satisfy the requirements of the API classification.
- 2. Have the proper SAE grade number for expected ambient temperature range.

Lubricants which do not have both an SAE grade number and an API service classification on the container should not be used.

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GENERAL SERVICE INFORMATION EB965F10

PROTECTION OF THE VEHICLE

Always be sure to cover fenders, seats, and floor areas before starting work.

The support rod must be inserted into the hole near the edge of the hood whenever you inspect the engine compartment to prevent the hood from falling and causing possible injury.

Make sure that the support rod has been released prior to closing the hood. Always check to be sure the hood is firmly latched before driving the vehicle.

PREPARATION OF TOOLS AND MESURING EQUIPMENT

Be sure that all necessary tools and measuring equipment are available starting work.

SPECIAL TOOLS

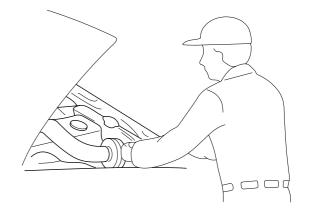
Use special tools when they are required.



EAKE005A

REMOVAL OF PARTS

First find the cause of the problem and then determine whether removal or disassembly before starting the job.



EAKE005B

DISASSEMBLY

If the disassembly procedure is complex, requiring many parts to be disassembled, all parts should be disassembled in a way that will not aggect their performance or external appearance.

1. Inspection of parts

Each part, when removed, should be carefulley on spected for malfunction, deformation, damage, and other problems.

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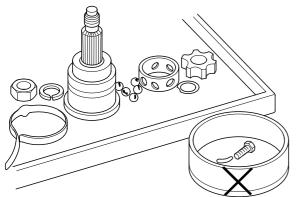
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2. Arrangement of parts

All disassembled parts should be carefully arranged for effective reassembly.

Be sure to separate and correctly identify the parts to be repllaced from those that will be used again.



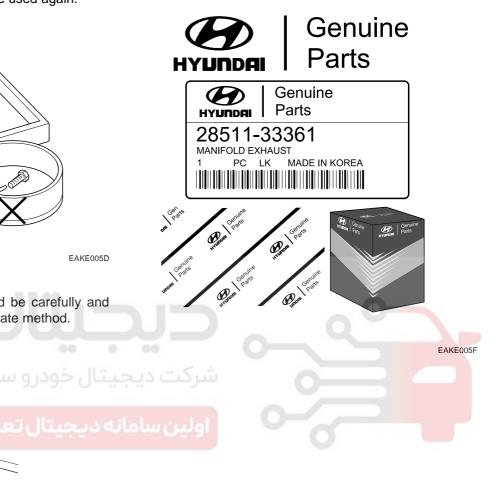
3. Cleaning parts for reuse

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All parts to be used again should be carefully and thoroughly cleaned by an appropriate method.

PARTS

When replacing parts, use HYUNDAI genuine parts.



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REPLACEMENT

Standard values, such as torques and certain adjustments, must be strictly observed in the reassembly of all parts.

If removed, the following parts should always be replaced with new ones.

- 1. Oil seals
- 2. Gaskets
- 3. O-rings
- 4. Lock washers
- 5. Cotter pins (split pins)
- 6. Plastic nuts

ADJUSTMENT

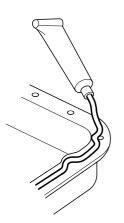
Use gauges and testers to adjust correctly the parts to standard values correctly.

ELECTRICAL SYSTEM

- 1. Be sure to disconnect the battery cable from the negative (-) terminal of the battery.
- 2. Never pull on the wires when disconnecting connectors.
- 3. Locking connectors will click when the connector is secure.
- 4. Handle sensors and relays carefully. Be careful not to drop them against other parts.

Depending on their location.

- Selalant should be applied to gaskets.
- Oil should be applied to the moving components of parts.
- 9. Specified oil or grease should be applied to the prescribed locations (oil seals, etc) before assembly.





EAKE005H

EAKE005G



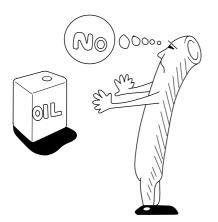
EAKE005I

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RUBER PARTS AND TUBES

Always prevent gasoline or from touching rubber parts or tubing.



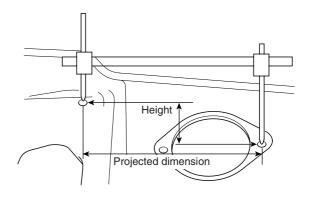
EAKE005J

MEASURING BODY DIMENSIONGS

- 1. Basically, all measurements in this manual are taken with a tracking gauge.
- 2. When a measuring tape is used, check to be sure there is no elongation, twisting or bending.
- 3. For measuring dimensions, both projected dimensioners and actual - measurement dimensions are used in this manual.

DIMENSIONS PROJECTED

- 1. These are the dimensions measured when the measurement points are projected from the vehicle's surface, and are the reference dimensions used for used for body alterations.
- 2. If the length of the tracking gauge probes is adjustable, measure it by lengthening one of two probes as long as the different value in height of the two surface.



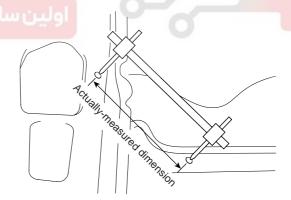
EAKE005K

MEASURING ACTUAL DIMENSIONS

- 1. These dimensions indicate the actual linear distance between mesaurement points, and are used as the reference dimensions when a tracking gauge is used for measurement.
- 2. First adjust both probes to the same length (A=A') before measurement.



Check the probes and gauge itself to make sure there is no free play.



EAKE005L

EAKE005R

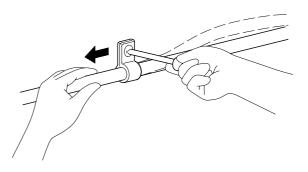
GENERAL

MEASUREMENT POINT

Measurements should be taken at the center fo the hole.

Hole center

10. Check that the wiring has a little space so that it can vibrate between fixed and moving parts such as the vehicle body and the engine.



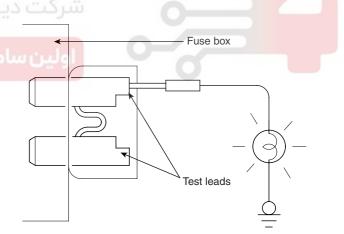
EAKE005M

CHECKING CABLES AND WIRES

- 1. Check the terminal for tightness.
- 2. Check terminals and wires for corrosion from battery electrolyte, etc.
- 3. Check terminals and wires for open corcuits.
- 4. Check wire insulation and coating for damage, cracks and degrading.
- 5. Check the conductive parts of terminals for contact with other metallic parts (vehicle body and other parts).
- 6. Check grounded parts to verify that there is complete continuity between thier attaching bolt(s) and the vehicle's body.
- 7. Check for incorrect wiring.
- 8. Check that the wiring is so clamped to the prevent contact with sharp corners of the vehicle body, etc. or hot parts (exhaust manifold, etc.)
- 9. Check that the wiring is clamped firmy to provide enough clearance from the fan pulley, fan belt and other rotating or moving parts.

CHECK FUSES

A blade type fuse test taps provided to allow checking the fuse itself without removing if from the fuse box. The fuse is good if the test lamp lights up when one lead is connected to the test taps (one at a time) and the other lead is grounded. (Turn the ignition switch so that the fuse circuit becomes operative)



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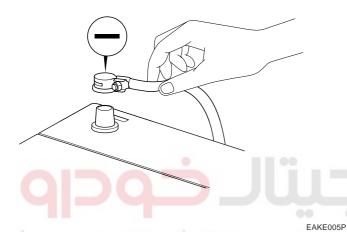
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SERIVICING THE ELECTRICAL SYSTEM

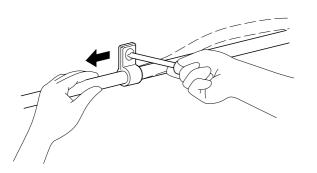
1. Prior to servicing the electrical system, be sure to turn off the ignition switch and disconnect the battery ground cable.

🔟 ΝΟΤΕ

When the battery cable is removed, any diagnostic trouble code retained by the computer will be cleared. There fore, if necessary, read the diagnostic before removing the battery cable.



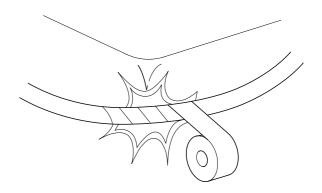
2. Attach the wiring harnesses with clamps so that there is no slack. However, for any harness which passes the engine or other vibrating parts of the vehicle, allow some slack within a range that does not allow the engine vibrations to cause the harness to come into contact with any of the surronding parts and then secure the harness by using a clamp.



EAKE005R

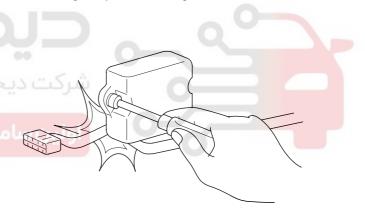
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3. If any section of a wiring harness interferes with the edge of a parts, or a corner, wrap the section of the harness with tape or something similar in order to protect if from damage.



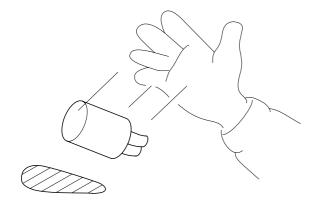
EAKE005S

4. When installing any parts, be careful not to pinch or damage any of the wiring harness.

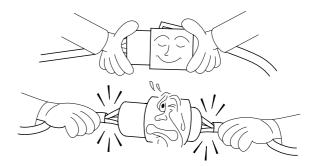


EAKE005T

- GENERAL
- 5. Never throw relays, sensors or electrical parts, or expose them to strong shock.



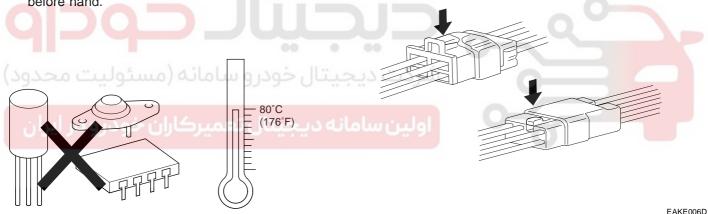
8. When disconnecting a connector, be sure to grip only the connector, not the wires.



EAKE005U

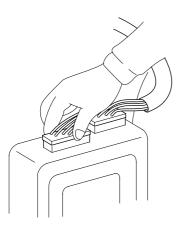
 The electronlic parts used in the computer, relays, etc. are readily damaged by heat. If there is a need for service operations that may cause the temperature to exceed 80°C (176°F), remove the electronic parts before hand.

- EAKE006C
- 9. Disconnect connector which have catches by pressing in the direction of the arrows shown the illustration.

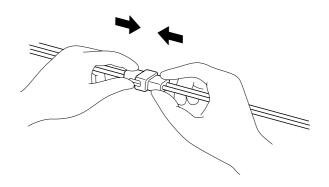


EAKE006A

7. Loose connectors cause problems. Make sure that the connectors are always securely fastened.



10. Connect connectors which have catches by inserting the connectors until they make a clicking sound.



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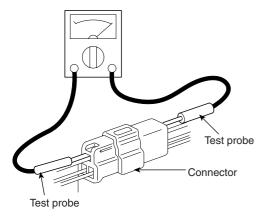
EAKE006B

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11. When using a circuit tester to check continuity or voltage on connector terminals, insert the test probe into the harness side. If the connector is a sealed connector, insert the test probe through the hole in the rubber cap until contacts the terminal, being careful not to damage the insulation of the wires.



EAKE006G

12. To avoid overloading the wiring, take the electrical current load of the optional equipment into consideration, and determine the appropartate wire size.

(10100)	"loŝ	Permissible current	
Noeminal size	SAE gauge No.	In engine compart- ment	Other areas
0.3mm ²	AWG 22	-	5A
0.5mm ²	AWG 20	7A	13A
0.85mm ²	AWG 18	9A	17A
1.25mm ²	AWG 16	12A	22A
2.0mm ²	AWG 14	16A	30A
3.0mm ²	AWG 12	21A	40A
5.0mm ²	AWG 10	31A	54A

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PRECAUTIONS FOR CATALYTIC CONVERTER

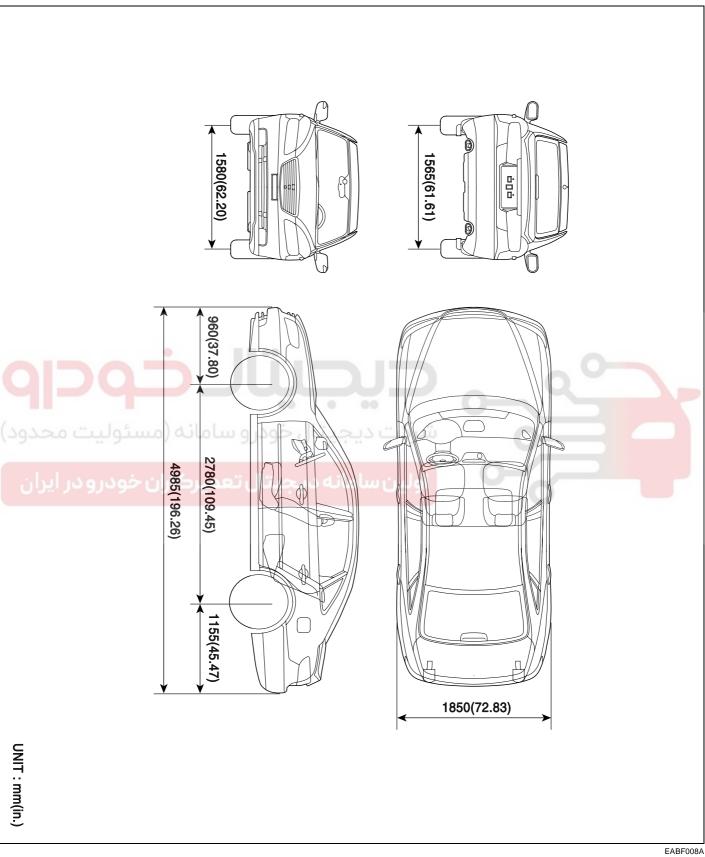
A CAUTION

If a large amount of unburned gasolined gasoline flow into the converter, it may overheat and create a fire hazard. To prevent this observe the following precations and explain them to your customer.

- 1. Use only unleaded gasoline.
- 2. Do not run the engine while the car is at rest for a long time. Avoid running the engine at fast idle for more than 10minutes and idle speed for more than 20 minutes.
- 3. Avoid start-jump tests. Do start-jumps only when absolutely necessary. Perform this test as rapidly as possible and, while testing, never race the engine.
- 4. Do not measure engine compression for and extended time. Engine compression tests must be made as rapidly as possible.
- 5. Avoid coasting with the ignition turned and during prolonged braking.
- 6. Do not dispose of used catalytic converter together with parts contaminated with gasoline or oil.

GENERAL

BODY - DIMENSION



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