

GI-2

General Information

General Information

Fundamental procedures

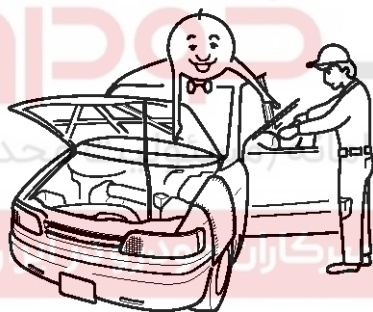
NOTICES, CAUTIONS AND WARNINGS

As you read through the various procedures, you will encounter Notices, Cautions and Warnings. Each one is there for a specific purpose. Notices give you added information that will assist you in completing a particular procedure. Cautions prevent you from making an error that could damage the vehicle. Warnings remind you to be especially careful in specific areas where carelessness can cause personal injury.

The following items contain general procedures you should always follow when working on a vehicle:

PROTECTION OF VEHICLE

Always cover fenders, seats, and floor areas before starting work. Operate the engine only in a well-ventilated area to avoid carbon monoxide poisoning.



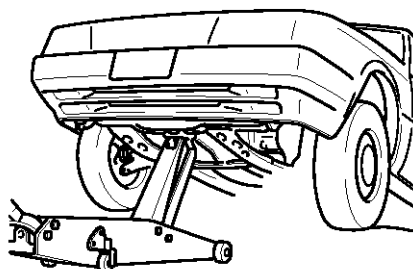
LA6C002A

A WORD ABOUT SAFETY

The following precautions must be followed when jacking up the vehicle:

1. Block the wheels.
2. Use only the specified jacking positions.
3. Support the vehicle with safety stands.

The engine compartment must be clear of tools and people before starting the engine.



LA6C003A

PREPARATION OF TOOLS AND MEASURING EQUIPMENT

All necessary tools and measuring equipment should be available before starting any work.



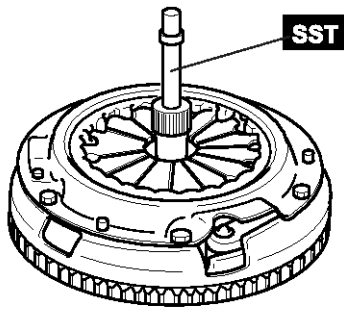
LA6C004A

SPECIAL SERVICE TOOLS (SST'S)

Use special service tools when they are required. SST's can be found under "preparation" prior to any procedure requiring them.

General Information

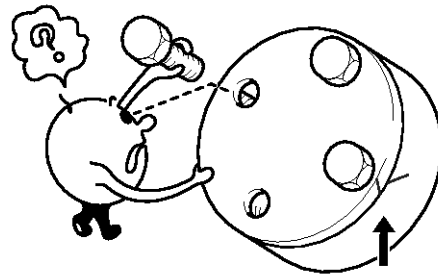
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BA2C010J

REMOVAL OF PARTS

Begin work only after first learning which parts and subassemblies must be removed and disassembled for replacement or repair.



LA6C006A

INSPECTION OF PARTS

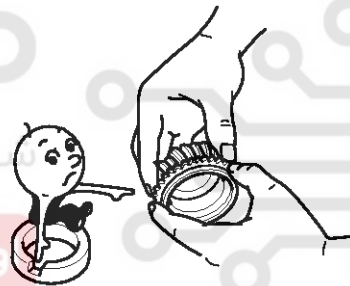
When removed, each part should be carefully inspected for malfunction, deformations, damage, or other problems.



LA6C005A

DISASSEMBLY

If the disassembly procedure is complex, requiring many parts to be disassembled, all parts should be disassembled in a way that will not affect their performance or external appearance. Additionally, these parts should be identified so that reassembly can be done easily and efficiently.



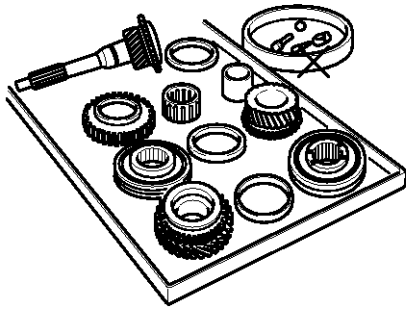
LA6C007A

Arrangement of parts

All disassembled parts should be carefully arranged for reassembly. Separate or otherwise identify the parts to be replaced from those that will be reused.

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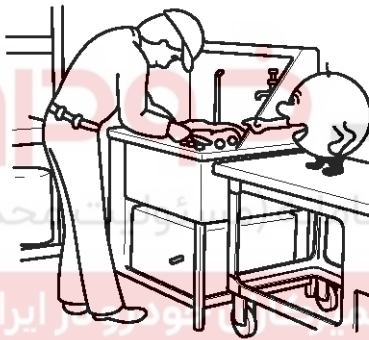
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BA2C010N

CLEANING PARTS FOR REUSE

All parts that will be reused should be carefully and thoroughly cleaned using appropriate methods.

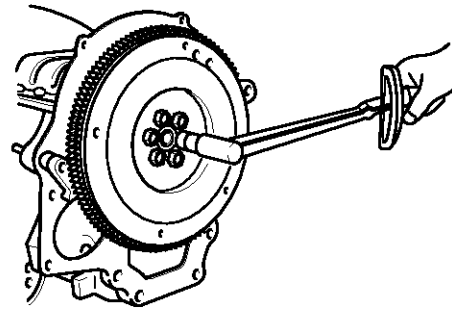


LA6C008A

REASSEMBLY

Standard values, such as torques and certain adjustments, must be strictly observed in the reassembly of all parts. If removed, the following parts should be replaced with new ones:

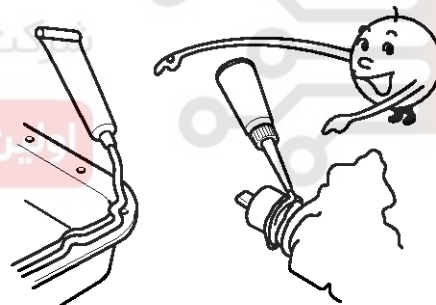
1. Oil seals
2. O-rings
3. Cotter pins
4. Gaskets
5. Lock washers
6. Nylon nuts



BA2C010P

DEPENDING ON LOCATION:

1. Sealant should be applied or new gaskets installed.
2. Oil should be applied to the moving components of parts.
3. Specified oil or grease should be applied at the appropriate locations (such as oil seals) before reassembly.



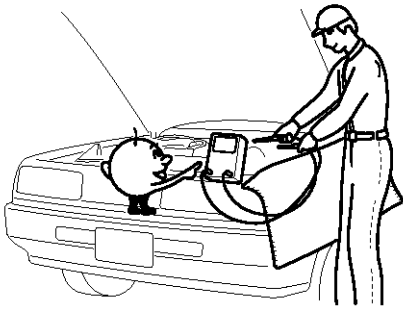
LA6C009A

Adjustments

Use appropriate gauges and/or testers when making adjustments.

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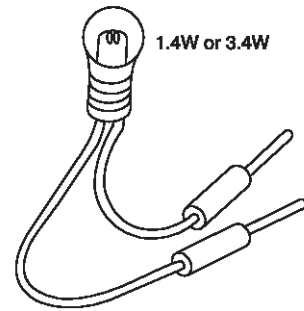
GI-5



BA2C010R

Rubber parts and tubing

Prevent gasoline or oil from contacting rubber parts or tubing.



BA2C015A

Electrical troubleshooting tools(Jumper wire)

The jumper wire is used for testing by shorting across switch terminals ground connections.

⚠ CAUTION

Do not connect a jumper wire from the power source line to a body ground. Such a connection may cause damage to harnesses or electronic components.



BA2C010S

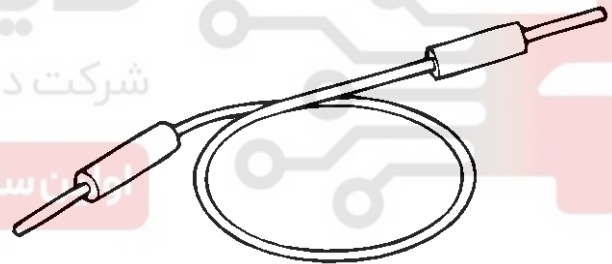
Electrical troubleshooting tools (Test Light)

The test light, as shown in figure, uses a 12V bulb. The two lead wires should be connected to probes.

The test light is used for simple voltage checks and in checking for short circuits.

⚠ CAUTION

When checking the engine control module (ECM), never use a bulb exceeding 3.4W.



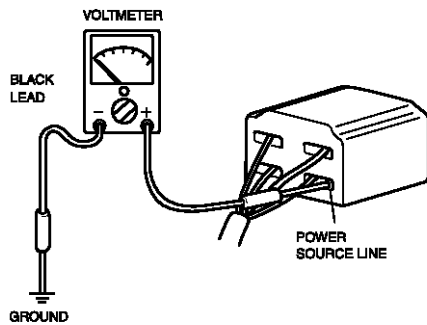
BA2C015B

VOLTMETER

The DC voltmeter measures circuit voltage. A voltmeter with a range of 15V or more is used by connecting the positive (+) probe (red lead wire) to the point where voltage is to be measured, and the negative (-) probe (black lead wire) to a bodyground.

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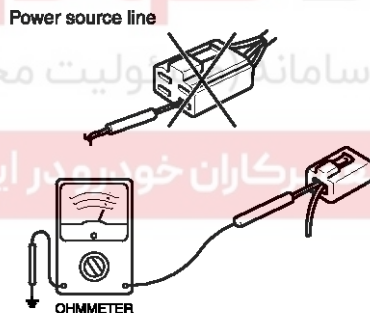
LA6C010A

OHMMETER

The ohmmeter is used to measure the resistance between two points in circuit and also to check for continuity and the diagnosis of short circuits.

CAUTION

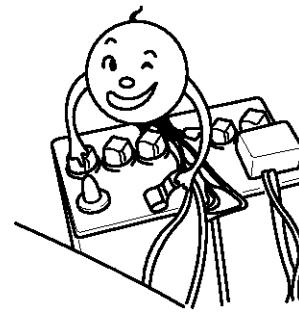
Do not attempt to connect the ohmmeter to any circuit in which voltage is applied. Such a connection may damage the ohmmeter.



BA2C015D

Electrical parts**Battery cable**

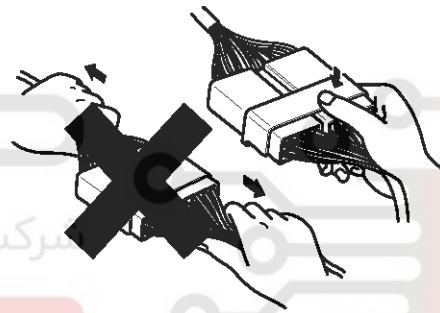
Before disconnecting connectors or replacing electrical parts, disconnect the negative battery cable.



BA2C015E

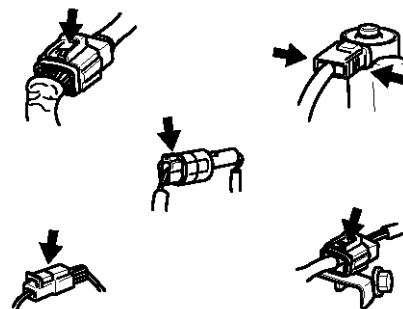
Connectors(Removal of connector)

1. Never pull on the wiring harness when disconnecting connectors.



BA2C015F

2. Connectors can be removed by pressing or pulling lock lever.



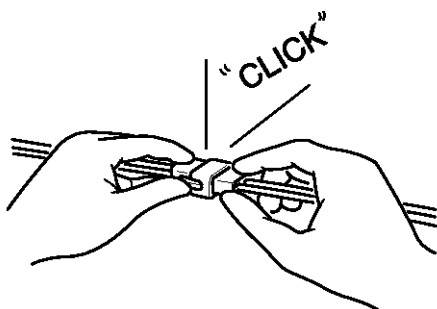
BA2C015G

Connectors(Locking a connector)

Listen for a click when locking connectors. This sound indicates that they are securely locked.

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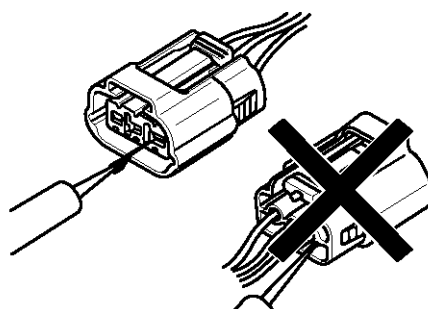
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BA2C015H

Connectors(Inspection)

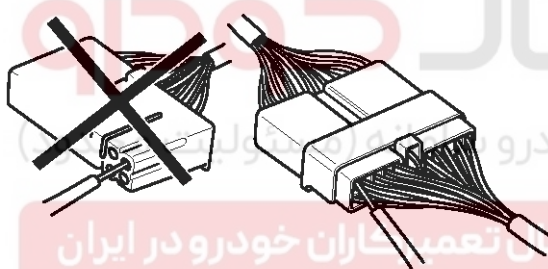
1. When a tester is used to check for continuity or to measure voltage, insert tester probe from wire harness side.



BA2C015J

Terminals(Inspection)

Pull lightly on individual wires to ensure that they are secured in the terminal.

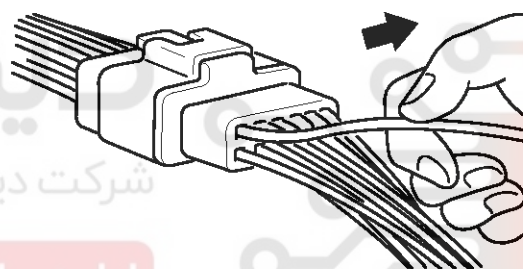


BA2C015I

2. Check terminals of waterproof connectors from connector side because they cannot be accessed from harness side.

NOTICE

- Use a fine wire to prevent damage to the terminal.
- Do not damage the terminal when inserting the tester lead.



BA2C015K

REPLACEMENT OF TERMINALS

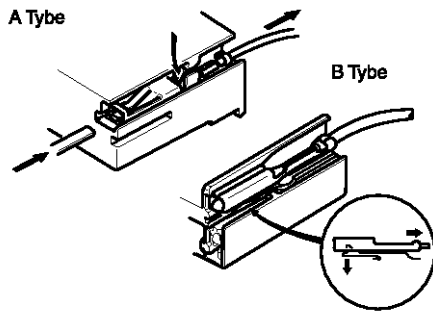
Use appropriate tools to remove terminal as shown. When installing the terminal, insert it until it locks securely.

FEMALE

Insert a thin piece of metal from the terminal side of the connector, and then, with the terminal locking tab pressed down, pull the terminal out of the connector.

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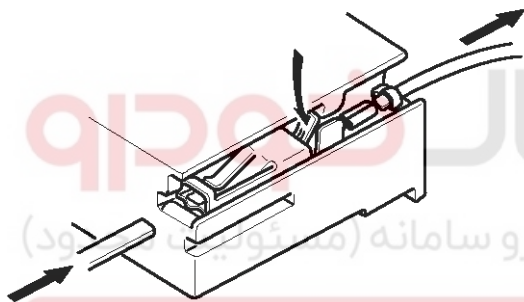
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LA6C012A

MALE

Follow the same procedure as female-type terminal.

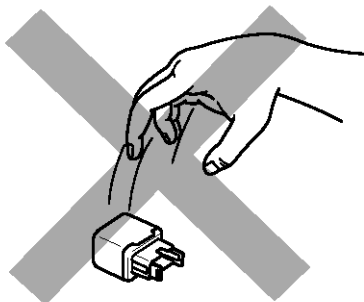


BA2C015M

SENSORS, SWITCHES, AND RELAYS

Always handle sensors, switches and relays carefully.

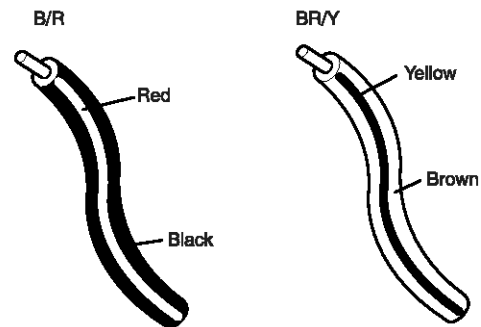
Do not drop them or accidentally strike them against other parts.



BA2C015N

WIRING COLOR CODES

Two-color wires are indicated by a two-color code symbol. The first color indicates the base color of the wire; the second color indicates the color of the stripe.



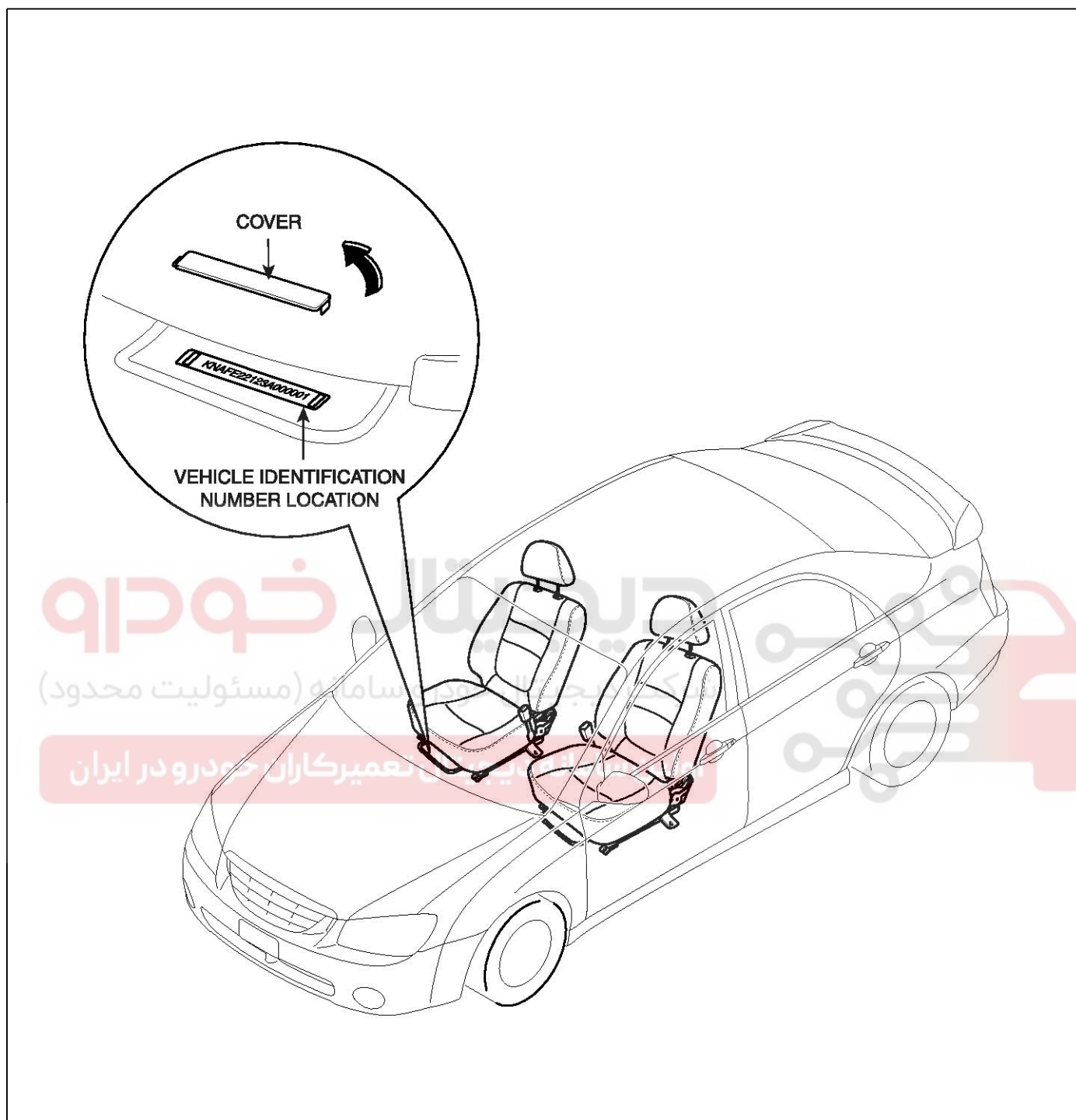
BA3C011A

CODE	COLOR	CODE	COLOR
B	BLACK	P	PINK
BR	BROWN	R	RED
G	GREEN	S	SILVER(LIGHT BLUE)
GY	GRAY	T	TAWNY
L	BLUE	V	VIOLET
LG	LIGHT GREEN	W	WHITE
O	ORANGE	Y	YELLOW

General Information

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VEHICLE IDENTIFICATION NUMBER LOCATION



BAGE001A

GI-10

General Information

VEHICLE IDENTIFICATION NUMBER DESCRIPTION EXCEPT EUROPE

VEHICLE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
4 N/B 1.6 GASOLINE M/T	K	N	A	F	E	2	2	2	2	4	5	0	0	0	0	0	1
4 N/B 1.6 GASOLINE A/T	K	N	A	F	E	2	2	2	3	4	5	0	0	0	0	0	1
4 N/B 2.0 GASOLINE M/T	K	N	A	F	E	2	2	3	2	4	5	0	0	0	0	0	1
4 N/B 2.0 GASOLINE A/T	K	N	A	F	E	2	2	3	3	4	5	0	0	0	0	0	1
5 H/B 1.6 GASOLINE M/T	K	N	A	F	E	2	4	2	2	4	5	0	0	0	0	0	1
5 H/B 1.6 GASOLINE A/T	K	N	A	F	E	2	4	2	3	4	5	0	0	0	0	0	1
5 H/B 2.0 GASOLINE M/T	K	N	A	F	E	2	4	3	2	4	5	0	0	0	0	0	1
5 H/B 2.0 GASOLINE A/T	K	N	A	F	E	2	4	3	3	4	5	0	0	0	0	0	1
5 H/B 2.0 DIESEL M/T	K	N	A	F	E	2	4	4	2	4	5	0	0	0	0	0	1

1 - 3 : Make / Vehicle type

- KNA = Kia Passenger Car

4 - 5 : Vehicle Line / Series

- FE = LD (SPECTRA)

6 - 7 : Body type

- 22 = 4Door Notchback (Sedan)

- 24 = 5Door Hatchback

8 : Engine type

- 2 = 1.6 Gasoline

- 3 = 2.0 Gasoline

- 4 = 2.0 Diesel

9 : Transmission type or Check digit

- 2 = 5 speed manual

- 3 = Automatic

- To be calculated

10 : Model year

- 4 = 2004, 5 = 2005

11 : Plant location

- 5 = Hwasung plant

12 - 17 : Sequential number

- 000001 ~ 999999

General Information

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VEHICLE IDENTIFICATION NUMBER DESCRIPTION FOR EUROPE

VEHICLE	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	0
4 N/B 1.6 GASOLINE M/T	-	K	N	E	F	E	2	2	2	2	4	5	0	0	0	0	0	1	-
4 N/B 1.6 GASOLINE A/T	-	K	N	E	F	E	2	2	2	3	4	5	0	0	0	0	0	1	-
4 N/B 2.0 GASOLINE M/T	-	K	N	E	F	E	2	2	3	2	4	5	0	0	0	0	0	1	-
4 N/B 2.0 GASOLINE A/T	-	K	N	E	F	E	2	2	3	3	4	5	0	0	0	0	0	1	-
4 N/B 2.0 DIESEL M/T	-	K	N	E	F	E	2	2	4	2	4	5	0	0	0	0	0	1	-
5 H/B 1.6 GASOLINE M/T	-	K	N	E	F	E	2	4	2	2	4	5	0	0	0	0	0	1	-
5 H/B 1.6 GASOLINE A/T	-	K	N	E	F	E	2	4	2	3	4	5	0	0	0	0	0	1	-
5 H/B 2.0 GASOLINE M/T	-	K	N	E	F	E	2	4	3	2	4	5	0	0	0	0	0	1	-
5 H/B 2.0 GASOLINE A/T	-	K	N	E	F	E	2	4	3	3	4	5	0	0	0	0	0	1	-
5 H/B 2.0 DIESEL M/T	-	K	N	E	F	E	2	4	4	2	4	5	0	0	0	0	0	1	-

1 - 3 : Make / Vehicle type

- KNE = Kia Passenger Car

4 - 5 : Vehicle Line / Series

- FE = LD (SPECTRA)

6 - 7 : Body type

- 22 = 4Door Notchback (Sedan) شرکت دیجیتال خودرو سامانه

- 24 = 5Door Hatchback

8 : Engine type

- 2 = 1.6 Gasoline

- 3 = 2.0 Gasoline

- 4 = 2.0 Diesel

9 : Transmission type

- 2 = 5 speed manual

- 3 = Automatic

10 : Model year

- 4 = 2004, 5 = 2005

11 : Plant location

- 5 = Hwasung plant

12 - 17 : Sequential number

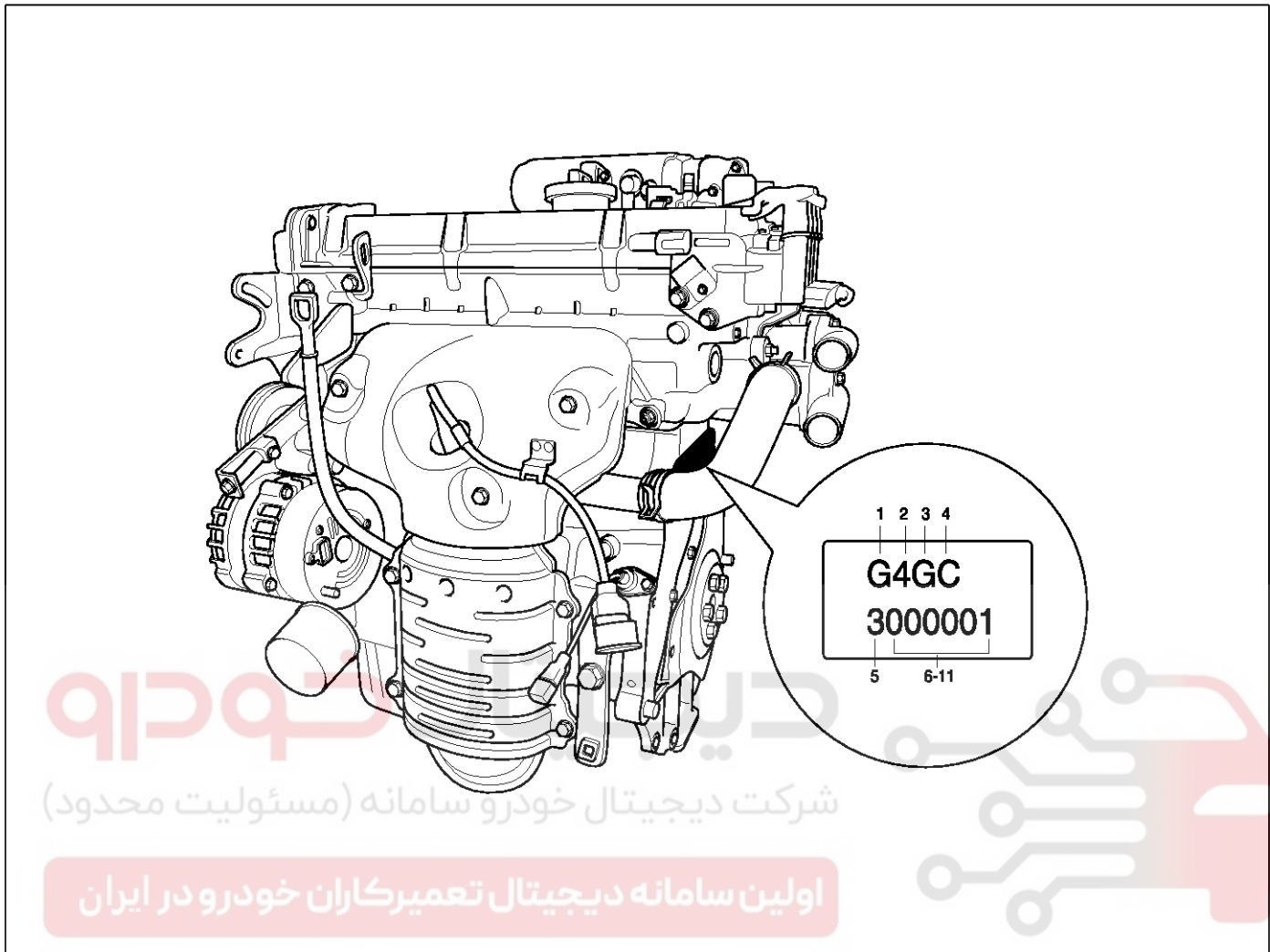
- 000001 ~ 999999



GI-12

General Information

ENGINE IDENTIFICATION NUMBER LOCATION (GASOLINE)



BAGE005A

ENGINE IDENTIFICATION NUMBER DESCRIPTION

MODEL	1	2	3	4	5	6	7	8	9	10	11
BETA ENGINE (2.0)	G	4	G	C	4	0	0	0	0	0	1
ALPHA ENGINE (1.6)	G	4	E	D	4	0	0	0	0	0	1

1 : Engine fuel

- G = Gasoline

2 : Engine range

- 4 = 4 Cycle 4 cylinder

3 : Engine development order

- G = BETA Engine

- E = ALPHA Engine

4 : Engine capacity

- C = 1,975cc

- D = 1,599cc

5 : Production year

- 4 = 2004, 5 = 2005

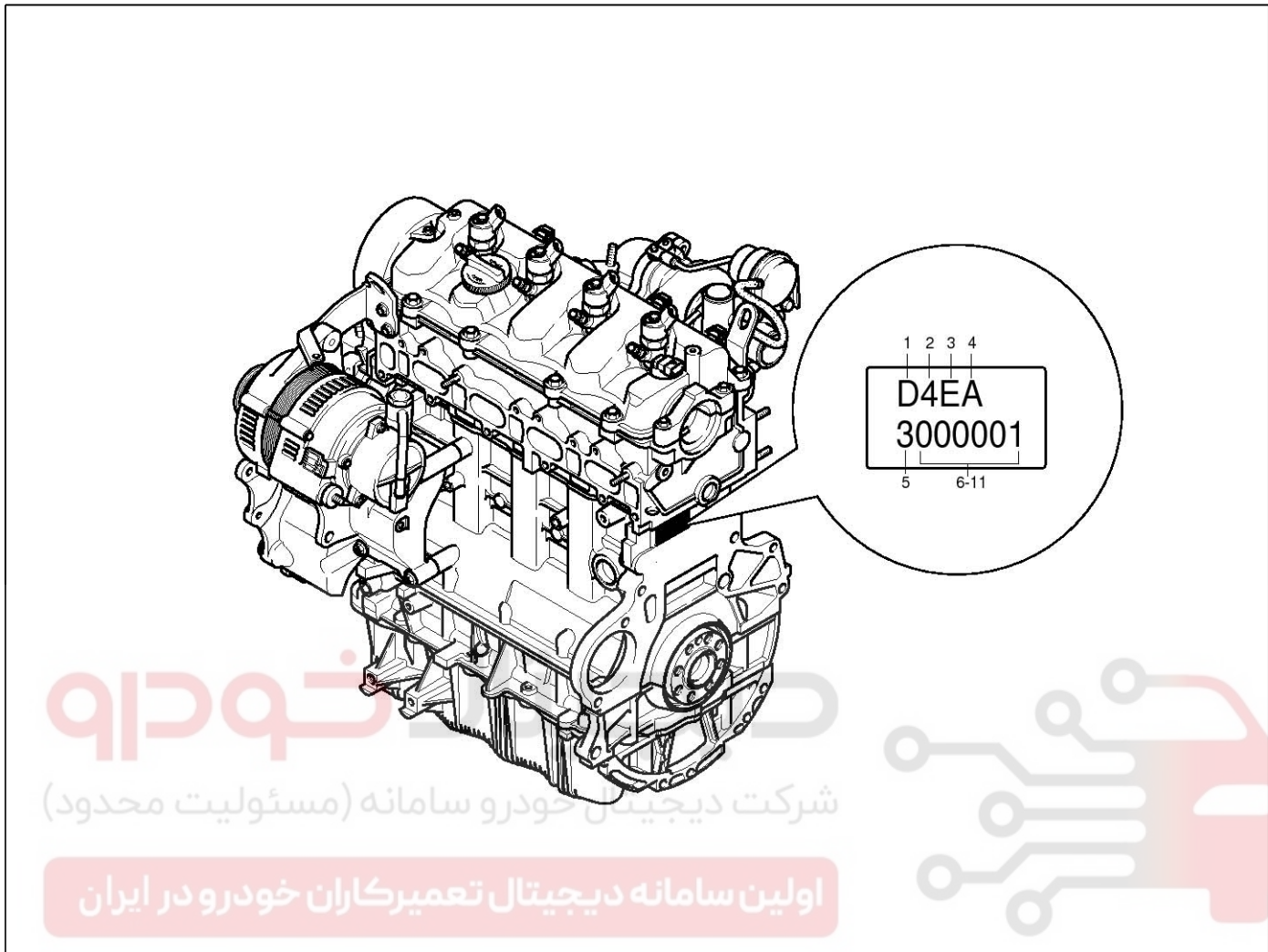
6 - 11 = Engine production sequence number

- 000001 ~ 999999

General Information

GI-13

ENGINE IDENTIFICATION NUMBER LOCATION (DIESEL)



LAGE001A

ENGINE IDENTIFICATION NUMBER DESCRIPTION

MODEL	1	2	3	4	5	6	7	8	9	10	11
D2.0 C/R ENGINE	D	4	E	A	4	0	0	0	0	0	1

1. Engine fuel

- D = Diesel

2. Engine range

- 4 = 4 cycle 4 cylinder

3. Engine development order

- E = D - engine

4. Engine capacity

- A = 1991 cc

5. Production year

- 4 = 2004, 5 = 2005

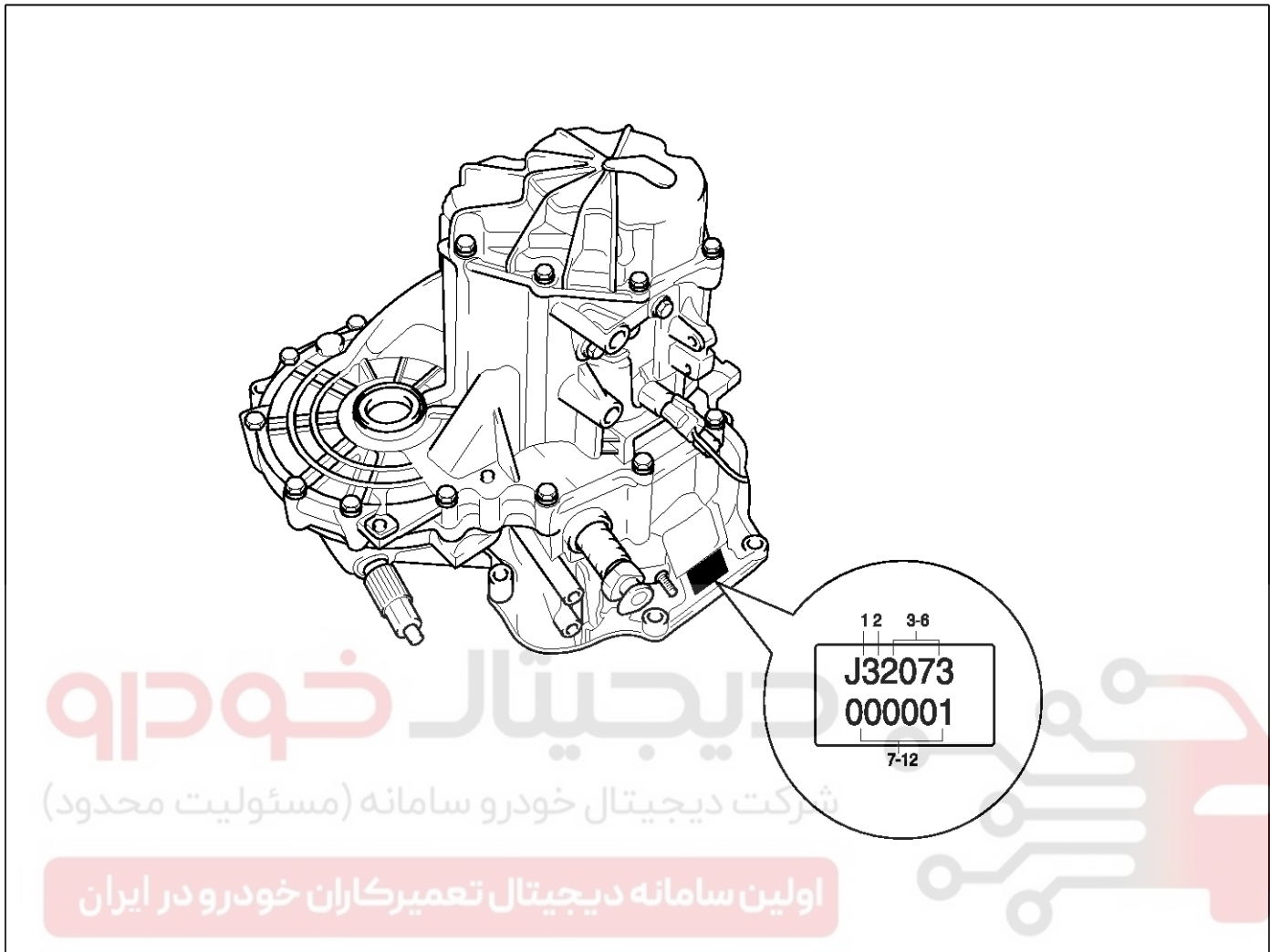
6 - 11 : Engine production sequence number

- 000001 ~ 999999

GI-14

General Information

MANUAL TRANSAXLE IDENTIFICATION NUMBER LOCATION



AAGE003A

MANUAL TRANSAXLE IDENTIFICATION NUMBER DESCRIPTION

MODEL	1	2	3	4	5	6	7	8	9	10	11	12
M5BF2	J	3	2	0	7	3	0	0	0	0	0	1

1 : Model

- J = F5BF2

2 : Production year

- 4 = 2004, 5 = 2005

3 - 6 : Gear ratio (Tooth number)

<3 - 4 : Output shaft gear tooth number, 5 - 6 : Differential drive gear tooth number>

- 2073 = $73/20 = 3.650$ - 1973 = $73/19 = 3.842$ - 1873 = $73/18 = 4.056$

7 - 12 : Production sequence number

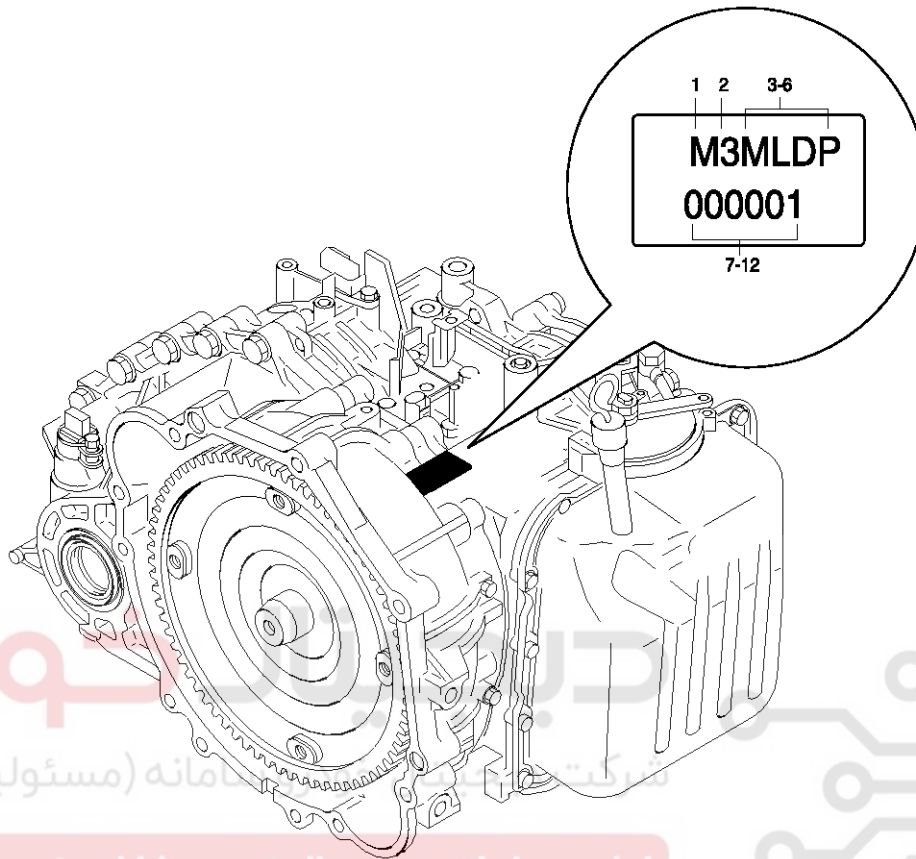
- 000000 ~ 999999

General Information

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AUTOMATIC TRANSAXLE IDENTIFICATION NUMBER LOCATION

■ F4A42



AAGE005A

AUTOMATIC TRANSAXLE IDENTIFICATION NUMBER DESCRIPTION

MODEL	1	2	3	4	5	6	7	8	9	10	11	12
F4A42	M	3	M	L	D	-	0	0	0	0	0	1

1 : Model

- M = F4A42-1

2 : Production year

- 4 = 2004, 5 = 2005

3 : Gear ratio

- M = 3.770

4 - 5 : Detailed classification

- LD = SPECTRA (2.0)

6 : Spare

7 - 12 : Production sequence number

- 000001 ~ 999999

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General Information

AUTOMATIC TRANSAXLE IDENTIFICATION NUMBER LOCATION

■ A4AF3



AAGE004A

AUTOMATIC TRANSAXLE IDENTIFICATION NUMBER DESCRIPTION

MODEL	1	2	3	4	5	6	7	8	9	10	11	12
A4AF3	T	3	N	S	D	-	0	0	0	0	0	1

1 : Model

- T = A4AF3

2 : Production year

- 4 = 2004, 5 = 2005

3 : Gear ratio

- N = 4.041

4 - 5 : Detailed classification

- SD = SPECTRA (1.6)

6 : Spare

7 - 12 : Production sequence number

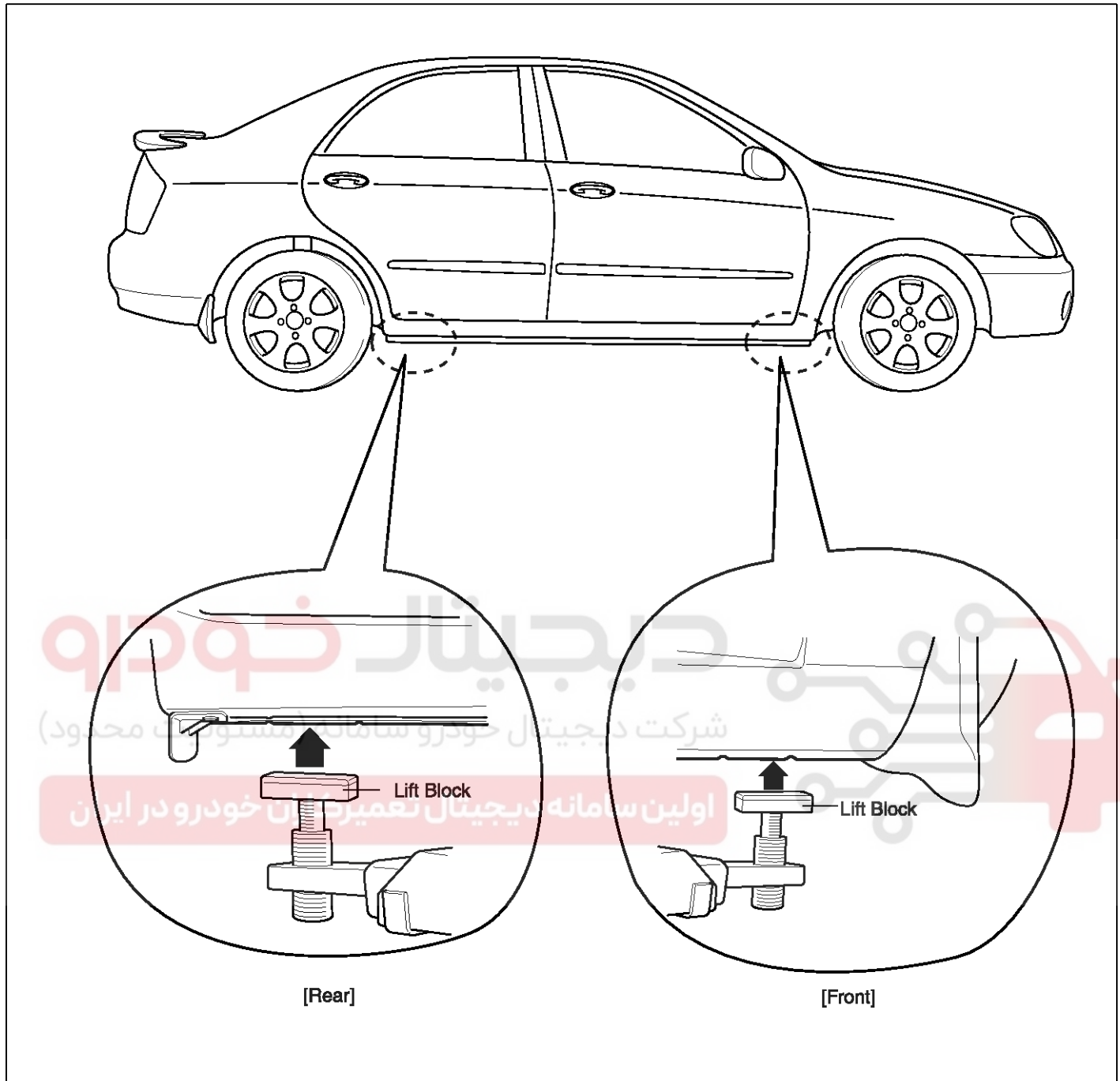
- 000001 ~ 999999

LIFT SUPPORT POINT

1. Place the lift blocks under the support points as shown in the illustration.
2. Raise the hoist a few inches 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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BAGE002A

TOWING

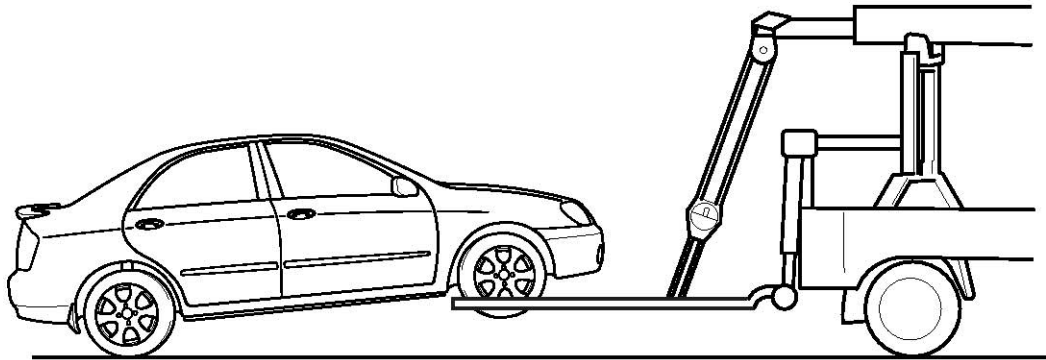
If the vehicle needs to be towed, a wheel lift or as flat-bed method is recommended.

⚠ CAUTION

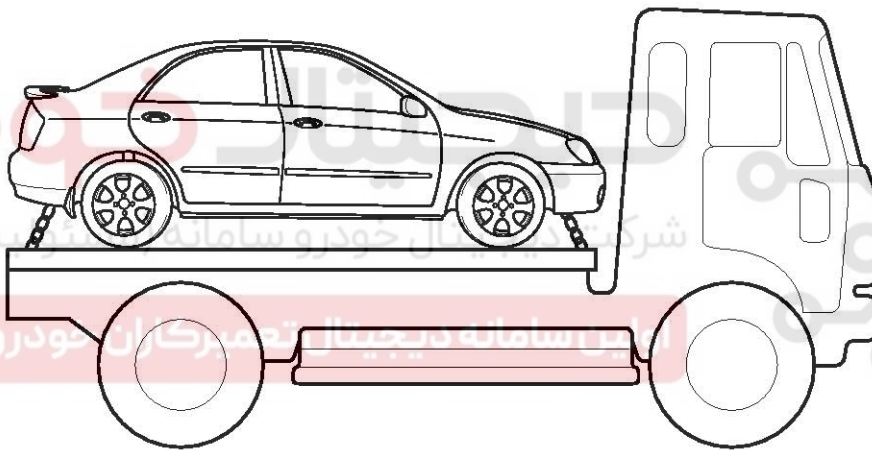
Never tow the vehicle by the method of a suspension (front or rear) lift.

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General Information



[Wheel lift]



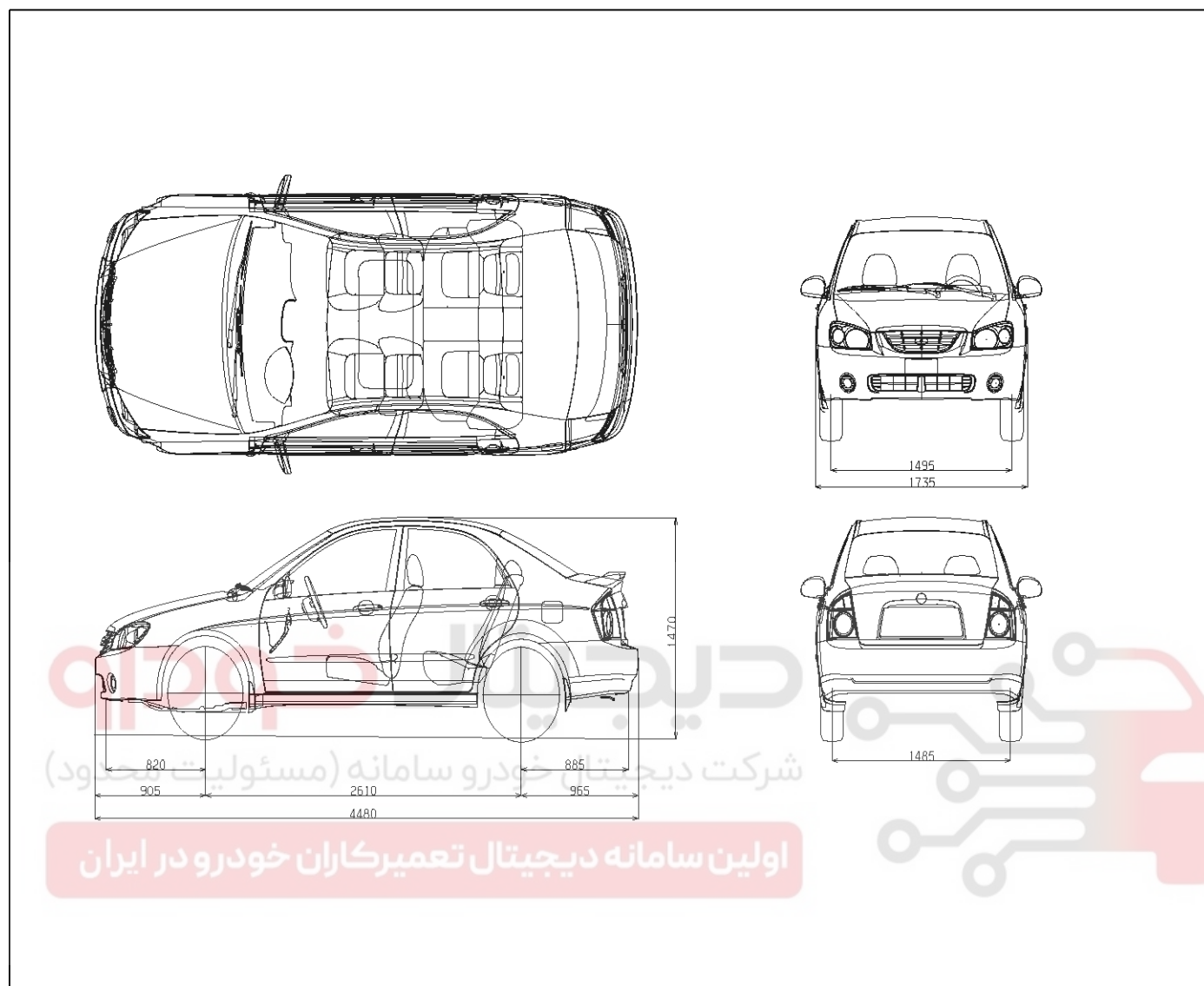
[Flat - bed]

BAGE003A

General Information

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OVERALL BODY DIMENSION



BAGE004A

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General Information

ENGLISH/METRIC CONVERSION TABLE

Multiply	by	to get equivalent number or :	Multiply	by	to get equivalent number or :
Length			Acceleration		
Inch (in)	25.4	millimeters (mm)	Foot/sec ²	0.3048	meter/sec ² (m/s ²)
Foot (ft)	0.3048	meters (m)	Inch/sec ²	0.0254	meter/sec ² (m/s ²)
Yard	0.9144	meters (m)	Torque		
Mile	1.609	kilometers (km)	Inch-pound	0.11298	newton-meters (N·m)
Area			Foot-pound	1.3558	newton-meters (N·m)
Inch ² (in ²)	645.2	millimeters ² (mm ²)	Power		
	6.45	centimeters ² (cm ²)	Horsepower (HP)	0.746	kilowatts (kw)
Foot (ft ²)	0.0929	meters ² (m ²)	Pressure		
Yard	0.8361	meters ² (m ²)	Pounds/inch ² (psi)	6.895	kilopascals (kPa)
Volume			Energy		
Inch ³ (in ³)	16387	mm ³	Foot-pound	1.3558	joules (J)
	16.387	cm ³	Kilowatt-hour	3,600,000	joules (J)
	0.0164	liters (l)	Fuel performance		
Quart (qt)	0.9464	liters (l)	Miles/gal (mpg)	0.4251	kilometers/liter (km/l)
Gallon	3.7854	liters (l)	Velocity		
Yard	0.7646	meters ³ (m ³)	Miles/hour (mph)	1.6093	kilometers/hour
Mass			Force		
Pound (lb)	0.4536	Kilograms (kg)	Kilogram	9.807	newtons (N)
Ton	907.18	Kilograms (kg)	Ounce (oz)	0.2780	newtons (N)
Temperature			Pound (lb)	4.448	newtons (N)
To convert fahrenheit temperature to celsius temperature, use formula :			To convert celsius temperature to fahrenheit temperature, use formula :		
$C = 5/9 (F-32)$			$F = 9/5 C + 32$		

BA2D001A

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UNITS

ft-lb or in-lb (N·m)	Torque
rpm	Rotational speed
A	Amperes
V	Volts
Ω	Resistance (OHMS)
psi (kPa)	Pressure
inHg (mmHg)	Pressure (usually negative vacuum)
W	Watts (electrical power)
US qt (liters)	Volume
in (mm)	Length

ABBREVIATIONS

ABDC	After bottom dead center
ABS	Anti-lock braking system
A/C	Air conditioner
ACC	Accessories
A/T	Automatic transaxle
ATDC	After top dead center
ATF	Automatic transmission fluid
BBDC	Before bottom dead center
BTDC	Before top dead center
CMP	Camshaft position sensor
CKP	Crankshaft position sensor
DIS	Distributorless ignition system
DLC	Data link connector
DOHC	Dual overhead Camshaft
EBD	Electronic brake-force distribution
ECM	Engine control module
ECT	Engine coolant temperature
E/L	Electrical load
EX	Exhaust
GND	Ground
HLA	Hydraulic lash adjuster
HO ₂ S	Heated oxygen sensor
IAT	Intake air temperature
IGN	Ignition
IN	Intake
INT	Intermittent

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IAC	Idle air control
LH	Left hand
M	Motor
MAF	Mass air flow
MIL	Malfunction indicator light
M/S	Manual steering
M/T	Manual transaxle
OBD	On-board diagnosis
OFF	Switch off
ON	Switch on
PCV	Positive crankcase ventilation
P/S	Power steering
PRC	Pressure regulator control
P/W	Power window
RH	Right hand
SFI	Sequential fuel injection system
SST	Special service tool
SW	Switch
TCM	Transaxle control module
TCS	Traction control unit
TDC	Top dead center
TNS	Tail number side
TPS	Throttle position sensor
TWC	Three way catalyst
WU-TWC	Warm-up three-way catalyst

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MAINTENANCE SCHEDULE SCHEDULE 1 - NORMAL MAINTENANCE

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General Information

MAINTENANCE INTERVALS	Number of months or driving distance, whichever comes first								
	Months	12	24	36	48	60	72	84	96
	Milesx1,000	10	20	30	40	50	60	70	80
	Kmx1,000	15	30	45	60	75	90	105	120
MAINTENANCE ITEM	Gasoline	I	I	I	I	I	I	I	I
	Diesel		I		I		R		I
Drive belts ¹⁾	Gasoline	R	R	R	R	R	R	R	R
	Diesel	R	R	R	R	R	R	R	R
Engine oil and Engine oil filter ²⁾	Gasoline				I		R		
	Diesel				I				R
Engine timing belt	Gasoline								
	Diesel								
Air cleaner element		I	R	I	R	I	R	I	R
Spark plugs (Gasoline)	For Europe		R		R		R		R
	Except Europe	Replace every 40,000 km (25,000 miles)							
Valve clearance	2.0L Gasoline	Inspect every 90,000 km (60,000 miles) or 48 months							
Vapor hose and fuel filler cap			I		I		I		I
Vacuum and crankcase ventilation hoses			I		I		I		I
Fuel filter	Gasoline				R				R
	Diesel		R		R		R		R
Fuel lines and hoses		I	I	I	I	I	I	I	I
Cooling system		Inspect "Coolant level adjustment and leak" every day Inspect "Water pump" when replacing the drive belt or timing belt							
Engine coolant	For Europe ³⁾	At first, replace at 90,000 km (60,000 miles) or 60 months; after that, replace every 45,000 km (30,000 miles) or 24 months							
	Except Europe	Replace every 45,000 km (30,000 miles) or 24 months							
Battery condition		I	I	I	I	I	I	I	I
All electrical systems			I		I		I		I
Brake lines, Hoses and connections		I	I	I	I	I	I	I	I
Brake pedal, Clutch pedal			I		I		I		I
Parking brake							I		I
Brake / Clutch fluid	For Europe	I	R	I	R	I	R	I	R
	Except Europe	I	I	I	I	I	I	I	I
Disc brakes and pads						I	I	I	I
Drum brakes and linings			I		I		I		I
Power steering fluid and hoses			I		I		I		I
Steering gear rack, Linkage and boots		I	I	I	I	I	I	I	I
Drive shaft and boots			I		I		I		I
Tire (Pressure & Tread wear)		I	I	I	I	I	I	I	I
Front suspension ball joints		I	I	I	I	I	I	I	I
Bolt and nuts on chassis and body		I	I	I	I	I	I	I	I
Air conditioner refrigerant (If equipped)		I	I	I	I	I	I	I	I
Air conditioner compressor (If equipped)		I	I	I	I	I	I	I	I
Air conditioner air filter (If equipped)		R	R	R	R	R	R	R	R
Manual transaxle fluid		I	I	I	I	I	I	I	I
Automatic transaxle fluid	For Europe	I	I	I	I	I	R	I	I
	Except Europe	I	I	I	I	I	I	I	I

I : Inspect and if necessary, adjust, correct, clean or replace.

R : Replace or change

- ¹⁾ Adjust alternator and power steering (and water pump drive belt) and air conditioner drive belt (If equipped).
Inspect and if necessary correct or replace.
- ²⁾ Check the engine oil level and leak every 500 km (350 miles) or before starting a long trip.
- ³⁾ When adding coolant, use only a qualified coolant additive for your vehicle and never mix hard water in the coolant filled at the factory. An improper coolant mixture can result in serious malfunction or engine damage.

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General Information

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SCHEDULE 2 - SEVERE MAINTENANCE

The following items must be serviced more frequently on cars mainly used under severe driving conditions.

Refer to the chart below for the appropriate maintenance intervals.

MAINTENANCE ITEM		Maintenance operation	Maintenance intervals	Driving condition
Engine oil and Engine oil filter	GASOLINE	R	Every 7,500 km (5,000 miles) or 6 months	A, B, C, F, G
	DIESEL	R	Every 7,500 km (5,000 miles) or 6 months	A, B, C, F, H
Air cleaner element		I	Inspect more frequently depending on the condition	C, E
Spark plug	GASOLINE	I	Inspect more frequently depending on the condition	B, H
Engine timing belt	GASOLINE	R	Every 60,000 km (40,000 Miles) or 48 months	D, E, F, G
	DIESEL	R	Every 60,000 km (40,000 Miles) or 48 months	
Manual transaxle fluid	For Europe	R	Every 90,000 km (60,000 Miles)	A, C, D, E, F, G, H, I, J
	Except Europe	R	Every 100,000 km (62,000 Miles)	
Automatic transaxle fluid	For Europe	R	Every 45,000 km (30,000 Miles)	A, C, E, F, G, H, I
	Except Europe	R	Every 40,000 km (25,000 Miles)	
Steering gear rack, linkage and boots		I	Inspect more frequently depending on the condition	C, D, E, F, G
Front suspension ball joints		I	Inspect more frequently depending on the condition	C, D, E, F, G
Disc brakes and pads, calipers and rotors		I	Inspect more frequently depending on the condition	C, D, E, G, H
Drum brakes and linings		I	Inspect more frequently depending on the condition	C, D, E, G, H
Parking brake		I	Inspect more frequently depending on the condition	C, D, G, H
Drive shaft and boots		I	Inspect more frequently depending on the condition	C, D, E, F
Air conditioner air filter (if equipped)		R	Replace more frequently depending on the condition	C, E

I : Inspect and if necessary, adjust, correct, clean or replace

R : Replace

Severe Driving Conditions

A : Repeated short distance driving

B : Extensive idling

C : Driving in dusty, rough roads

D : Driving in areas using salt or other corrosive materials or in very cold weather

E : Driving in sandy areas

F : More than 50% driving in heavy in heavy city traffic during hot weather above 32°C (90°F)

G : Driving in mountainous areas.

H : Towing a trailer

I : Driving for patrol car, taxi, commercial car or vehicle towing

J : Driving over 170 km/h (106 mile/h)

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