
SECTION 0B

GENERAL INFORMATION

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SPECIFICATIONS

TECHNICAL DATA

Performance - Manual Transaxle

Application	1.3L SOHC	1.5L SOHC	1.6L DOHC
Maximum Speed	166 km/h (103.2 mph)	172 km/h (106.9 mph)	180 km/h (111.8 mph)
Gradeability	0.43 (tan j)	0.5 (tan j)	0.5 (tan j)
Minimum Turning Radius	4.9 m (16 ft)	4.9 m (16 ft)	4.9 m (16 ft)

Performance - Automatic Transaxle

Application	1.3L SOHC	1.5L SOHC	1.6L DOHC
Maximum Speed	-	161 km/h (100.0 mph)	173 km/h (107.5 mph)
Gradeability	-	0.59 (tan j)	0.59 (tan j)
Minimum Turning Radius	-	4.9 m (16 ft)	4.9 m (16 ft)

0B-2 GENERAL INFORMATION

Engine

Application	1.3L SOHC Manual	1.5L SOHC Manual and Automatic	1.6L DOHC Manual and Automatic
Engine Type	Overhead Cam L4	Overhead Cam L4	Overhead Cam L4
Bore	76.5 mm (3.01 in.)	76.5 mm (3.01 in.)	79.0 mm (3.11 in.)
Stroke	73.4 mm (2.89 in.)	81.5 mm (3.21 in.)	81.5 mm (3.21 in.)
Total Displacement	1 349 cm ³ (82.3 in ³)	1 498 cm ³ (91.4 in ³)	1 598 cm ³ (97.5 in ³)
Compression Ratio	9.5:1	9.5:1	9.5:1
Maximum Power	55 kw (74 bhp) (at 5,400 rpm)	63 kw (84 bhp) (at 5,800 rpm)	77.8 kw (104 bhp) (at 6,000 rpm)
Maximum Torque	115 NSm (85 lb-ft) (at 3,400 rpm)	130 NSm (96 lb-ft) (at 3,400 rpm)	145.3 NSm (107.17 lb-ft) (at 3,400 rpm)

Ignition System

Application	1.3L SOHC Manual	1.5L SOHC Manual and Automatic	1.6L DOHC Manual and Automatic
Ignition Type	Direct Ignition System	Direct Ignition System	Direct Ignition System
Ignition Timing	10_ (BTDC)	10_ (BTDC)	10_ (BTDC)
Ignition Sequence	1-3-4-2	1-3-4-2	1-3-4-2
Spark Plug Gap	0.70-0.80 mm (0.028-0.031 in.)	0.70-0.80 mm (0.028-0.031 in.)	1.00-1.10 mm (0.039-0.043 in.)
Spark Plug Maker	Champion / Woojin	Champion / Woojin	Woojin
Spark Plug Type	RN9YC / BPR6ES	RN9YC / BPR6ES	BKR6EC1

Clutch - Manual Transaxle

Application	1.3L SOHC	1.5L SOHC	1.6L DOHC
Type	Single Dry Plate	Single Dry Plate	Single Dry Plate
Outside Diameter	184 mm (7.2 in.)	200 mm (7.9 in.)	215 mm (8.5 in.)
Inside Diameter	127 mm (5.0 in.)	134 mm (5.3 in.)	145 mm (5.7 in.)
Thickness	7.65 mm (0.301 in.)	7.65 mm (0.301 in.)	7.65 mm (0.301 in.)
Fluid	Common Use; Brake Fluid	Common Use; Brake Fluid	Common Use; Brake Fluid

Manual Transaxle

Application	1.3L SOHC Wide Ratio	1.5L SOHC Medium Ratio	1.6L DOHC
			Close Ratio
Maker	DWMC	DWMC	DWMC
Type or Model	DG6	DG6	DG6
Gear Ratio:			
1st	3.545:1	3.545:1	3.545:1
2nd	1.952:1	2.048:1	2.158:1
3rd	1.276:1	1.346:1	1.478:1
4th	0.892:1	0.971:1	1.129:1
5th	0.707:1	0.763:1	0.886:1
Reverse	3.333:1	3.333:1	3.333:1
Final Drive Ratio	3.944:1	4.176:1	3.722:1
Oil Capacity	1.8L (2 qt)	1.8L (2 qt)	1.8L (2 qt)

Automatic Transaxle

Application	1.3L SOHC	1.5L SOHC	1.6L DOHC
Maker	-	General Motors	General Motors
Type or Model	-	4T40E	4T40E
Gear Ratio:			
1st	-	2.957:1	2.957:1
2nd	-	1.623:1	1.623:1
3rd	-	1.000:1	1.000:1
4th	-	0.682:1	0.682:1
Reverse	-	2.143:1	2.143:1
Final Drive Ratio	-	3.91:1	3.91:1
Oil Capacity	-	11.5L (12 qt)	11.5L (12 qt)

Brake

Application	1.3L SOHC Manual Transaxle	1.5L SOHC Manual and Automatic	1.6L DOHC Manual and Automatic
Booster Size	228.6 mm (9.00 in.)	228.6 mm (9.00 in.)	228.6 mm (9.00 in.)
Master Cylinder Diameter	20.64 mm (0.813 in.)	20.64 mm (0.813 in.)	22.22 mm (0.875 in.)
Booster Ratio	5.0:1	5.0:1	5.0:1
Front Brake: Disc Type	Ventilated	Ventilated	Ventilated
Rear Brake: Drum Inside Diameter	200 mm (7.9 in.)	200 mm (7.9 in.)	200 mm (7.9 in.)
Wheel Cylinder Diameter	17.46 mm (0.687 in.)	17.46 mm (0.687 in.)	19.05 mm (0.750 in.)
Fluid Capacity	0.5L (0.5 qt)	0.5L (0.5 qt)	0.5L (0.5 qt)

Tire and Wheel

Application	1.3L SOHC Manual	1.5L SOHC Manual and Automatic	1.6L DOHC Manual and Automatic
Tire Size	155/80R13 175/70R13	175/70R13	185/60R14
Standard Wheel Size	5J X 13 (Steel)	5J X 13 (Steel)	5.5J X 14 (Steel)
Optional Wheel Size	-	-	5.5J X 14 (Aluminum)
Inflation Pressure at Full Load:			
155/80R13	35 psi	-	-
175/70R13	32 psi	32 psi	-
185/60R14	-	-	32 psi

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Steering System

Application	1.3L SOHC Manual	1.5L SOHC Manual and Automatic	1.6L DOHC Manual and Automatic
Gear Type	Power/Manual Rack and Pinion	Power/Manual Rack and Pinion	Power/Manual Rack and Pinion
Overall Gear Ratio Manual Steering Power Steering	24.5:1 16.12:1	- 16.12:1	- 16.12:1
Wheel Diameter	380 mm (15.0 in.)	380 mm (15.0 in.)	380 mm (15.0 in.)
Wheel Alignment: Front: □ □ □ Toe □ □ □ Caster: □ □ Manual Steering	- 10iG-10i (- 1G±1 mm) (- 0.04G±0.04 in.)	- 10iG-10i (- 1G±1 mm) (- 0.04G±0.04 in.)	- 10iG-10i (- 1G±1 mm) (- 0.04G±0.04 in.)
□ □ Power Steering	1_45iG_45i	1_45iG_45i	1_45iG_45i
□ Camber	- 1_10iG±20i	- 1_10iG±20i	- 1_10iG±20i
Rear: □ Toe □ Caster	- 10iG-40i (- 1G±4 mm) (- 0.04G±0.16 in.)	- 10iG-40i (- 1G±4 mm) (- 0.04G±0.16 in.)	- 10iG-40i (- 1G±4 mm) (- 0.04G±0.16 in.)
Camber	- 2_10iG- 1_10i	- 2_10iG- 1_10i	- 2_10iG- 1_10i
Oil Capacity	1.0L (1 qt)	1.0L (1 qt)	1.0L (1 qt)

Suspension

Application	1.3L SOHC Manual	1.5L SOHC Manual and Automatic	1.6L DOHC Manual and Automatic
Front type	MacPherson Strut	MacPherson Strut	MacPherson Strut
Rear type	Compound Link	Compound Link	Compound Link

Fuel System

Application	1.3L SOHC Manual	1.5L SOHC Manual and Automatic	1.6L DOHC Manual and Automatic
Fuel Delivery	MPI	MPI	MPI
Fuel Pump Type	Electric Motor Pump	Electric Motor Pump	Electric Motor Pump
Fuel Filter Type	Cartridge	Cartridge	Cartridge
Fuel Capacity	48L (12.7 gal)	48L (12.7 gal)	48L (12.7 gal)

Lubricating System

Application	1.3L SOHC Manual	1.5L SOHC Manual and Automatic	1.6L DOHC Manual and Automatic
Lubricating Type	Forced Feed	Forced Feed	Forced Feed
Oil Pump Type	Duocentric Rotor	Duocentric Rotor	Duocentric Rotor
Oil Filter Type	Cartridge (Full Flow)	Cartridge (Full Flow)	Cartridge (Full Flow)
Oil Pan Capacity Including Oil Filter	3.75L (4 qt)	3.75L (4 qt)	3.75L (4 qt)

Cooling System

Application	1.3L SOHC Manual	1.5L SOHC Manual and Automatic	1.6L DOHC Manual and Automatic
Cooling Type	Forced Water Circulation	Forced Water Circulation	Forced Water Circulation
Radiator Type	Crossflow	Crossflow	Crossflow
Water Pump Type	Centrifugal	Centrifugal	Centrifugal
Thermostat Type	Pellet Type	Pellet Type	Pellet Type
Coolant Capacity: Standard	7.0L (7 qt)	7.0L (7 qt)	7.0L (7 qt)
Heavy Duty	7.0L (7 qt)	7.0L (7 qt)	7.0L (7 qt)

Electric System

Application		1.3L SOHC Manual	1.5L SOHC Manual and Automatic	1.6L DOHC Manual and Automatic
Battery	General Area	550 Cold Cranking Amps	550 Cold Cranking Amps	550 Cold Cranking Amps
	Some Countries Only	430 Cold Cranking Amps	430 Cold Cranking Amps	430 Cold Cranking Amps
Alternator	General Area	85 Amps	85 Amps	85 Amps
	Hot Area Only	95 Amps	95 Amps	95 Amps
Starter (No Load Test Current Draw)	0.8 (kW)	Maximum 53 (Amps) (at 11.5 Volts)	Maximum 53 (Amps) (at 11.5 Volts)	Maximum 53 (Amps) (at 11.5 Volts)
	1.4 (kW)	Minimum 40 Amps Maximum 90 (Amps) (at 12.2 Volts)	Minimum 40 Amps Maximum 90 (Amps) (at 12.2 Volts)	Minimum 40 Amps Maximum 90 (Amps) (at 12.2 Volts)

0B.6 GENERAL INFORMATION**VEHICLE DIMENSIONS AND WEIGHTS****Vehicle Dimensions - Manual and Automatic**

Application	1.3L SOHC	1.5L SOHC	1.6L SOHC
Overall Length:			
3 Door	4 074 mm (160.4 in.)	4 074 mm (160.4 in.)	4 074 mm (160.4 in.)
4 Door	4 237 mm (166.8 in.)	4 237 mm (166.8 in.)	4 237 mm (166.8 in.)
5 Door	4 074 mm (160.4 in.)	4 074 mm (160.4 in.)	4 074 mm (160.4 in.)
Overhang:			
Front:			
□ 3 Door	838 mm (33.0 in.)	838 mm (33.0 in.)	838 mm (33.0 in.)
□ 4 Door	838 mm (33.0 in.)	838 mm (33.0 in.)	838 mm (33.0 in.)
□ 5 Door	838 mm (33.0 in.)	838 mm (33.0 in.)	838 mm (33.0 in.)
Rear:			
□ 3 Door	716 mm (28.2 in.)	716 mm (28.2 in.)	716 mm (28.2 in.)
□ 4 Door	879 mm (34.6 in.)	879 mm (34.6 in.)	879 mm (34.6 in.)
□ 5 Door	716 mm (28.2 in.)	716 mm (28.2 in.)	716 mm (28.2 in.)
Overall Width	1 678 mm (66.1 in.)	1 678 mm (66.1 in.)	1 678 mm (66.1 in.)
Overall Height	1 432 mm (56.4 in.)	1 432 mm (56.4 in.)	1 432 mm (56.4 in.)
Minimum Ground Clearance	160 mm (6.3 in.)	160 mm (6.3 in.)	160 mm (6.3 in.)
Wheel Base	2 520 mm (99.2 in.)	2 520 mm (99.2 in.)	2 520 mm (99.2 in.)
Tread:			
Front	1 405 mm (55.3 in.)	1 405 mm (55.3 in.)	1 405 mm (55.3 in.)
Rear	1 425 mm (56.1 in.)	1 425 mm (56.1 in.)	1 425 mm (56.1 in.)

Vehicle Weights - 3 Door

Application	1.3L SOHC	1.5L SOHC	1.6L DOHC
Manual:			
Curb Weight:			
□ Standard	1 005 kg (2,216 lb)	1 011 kg (2,229 lb)	1 031 kg (2,273 lb)
□ Optional	1 071 kg (2,361 lb)	1 077 kg (2,374 lb)	1 097 kg (2,418 lb)
Gross Vehicle Weight	1 595 kg (3,516 lb)	1 595 kg (3,516 lb)	1 595 kg (3,516 lb)
Automatic:			
Curb Weight:			
□ Standard	-	1 047 kg (2,308 lb)	1 067 kg (2,352 lb)
□ Optional	-	1 113 kg (2,454 lb)	1 133 kg (2,498 lb)
Gross Vehicle Weight	-	1 595 kg (3,516 lb)	1 595 kg (3,516 lb)
Passenger Capacity	5	5	5

Vehicle Weights - 4 Door

Application	1.3L SOHC	1.5L SOHC	1.5L DOHC
Manual:			
Curb Weight:			
□ Standard	1 030 kg (2,271 lb)	1 036 kg (2,284 lb)	1 056 kg (2,328 lb)
□ Optional	1 096 kg (2,416 lb)	1 102 kg (2,430 lb)	1 122 kg (2,474 lb)
Gross Vehicle Weight	1 595 kg (3,516 lb)	1 595 kg (3,516 lb)	1 595 kg (3,516 lb)
Automatic:			
Curb Weight:			
□ Standard	-	1 072 kg (2,363 lb)	1 092 kg (2,407 lb)
□ Optional	-	1 138 kg (2,509 lb)	1 158 kg (2,553 lb)
Gross Vehicle Weight	-	1 595 kg (3,516 lb)	1 595 kg (3,516 lb)
Passenger Capacity	5	5	5

Vehicle Weights - 5 Door

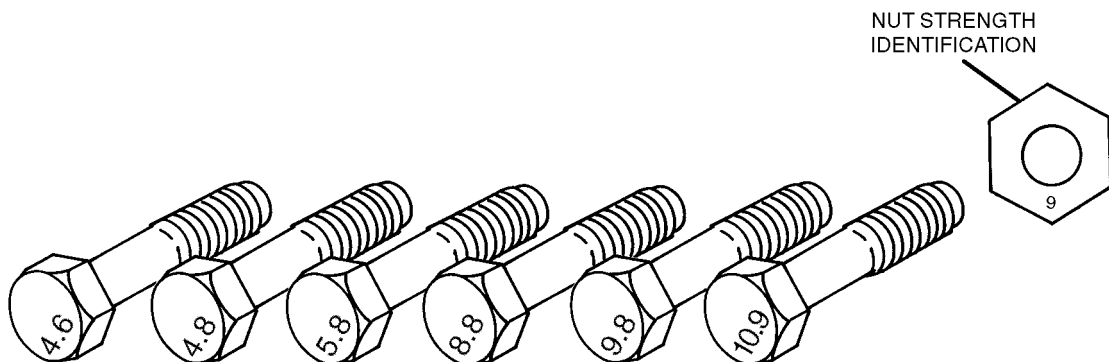
Application	1.3L SOHC	1.5L SOHC	1.5L DOHC
Manual:			
Curb Weight:			
□ Standard	1 015 kg (2,238 lb)	1 021 kg (2,251 lb)	1 041 kg (2,295 lb)
□ Optional	1 081 kg (2,383 lb)	1 087 kg (2,396 lb)	1 107 kg (2,440 lb)
Gross Vehicle Weight	1 595 kg (3,516 lb)	1 595 kg (3,516 lb)	1 595 kg (3,516 lb)
Automatic:			
Curb Weight:			
□ Standard	-	1 057 kg (2,330 lb)	1 077 kg (2,374 lb)
□ Optional	-	1 123 kg (2,476 lb)	1 143 kg (2,520 lb)
Gross Vehicle Weight	-	1 595 kg (3,516 lb)	1 595 kg (3,516 lb)
Passenger Capacity	5	5	5

Optional Weight: Air Conditioner, Power Steering, ABS, Sun Roof, Airbag

0B.8 GENERAL INFORMATION

STANDARD BOLT SPECIFICATIONS

Bolt*	4T - Low Carbon Steel	7T - High Carbon Steel	7T - Alloy Steel
M6 X 1.0	4.1 3 .1 NSm (36 7 2 lb 0 n)	4.1 3 .5 NSm (48 3 4 lb 0 n)	
M8 X 1.25	8.1 7 .6 NSm (72 4 56 lb 0 n)	12.2 3 .0 NSm (108 2 04 lb 0 n)	16 3 0 NSm (12 2 22 lb 0 n)
M10 X 1.25	20 3 4 NSm (15 2 5 lb 0 n)	27 4 6 NSm (20 3 4 lb 0 n)	37 6 2 NSm (27 4 6 lb 0 n)
M10 X 1.5	19 3 4 NSm (14 2 5 lb 0 n)	27 4 5 NSm (20 3 3 lb 0 n)	37 6 0 NSm (27 4 4 lb 0 n)
M12 X 1.25	49 7 3 NSm (36 5 4 lb 0 n)	61 9 1 NSm (45 6 7 lb 0 n)	76 4 14 NSm (56 3 4 lb 0 n)
M12 X 1.75	45 6 9 NSm (33 5 1 lb 0 n)	57 3 4 NSm (42 6 2 lb 0 n)	72 4 07 NSm (53 7 9 lb 0 n)
M14 X 1.5	76 4 15 NSm (56 3 5 lb 0 n)	94 4 40 NSm (69 4 03 lb 0 n)	114 4 71 NSm (84 4 26 lb 0 n)
M14 X 2.0	72 4 07 NSm (53 7 9 lb 0 n)	88 4 32 NSm (65 9 7 lb 0 n)	107 4 60 NSm (79 4 18 lb 0 n)
M16 X 1.5	104 4 57 NSm (77 4 16 lb 0 n)	136 4 203 NSm (100 4 50 lb 0 n)	160 4 240 NSm (118 4 77 lb 0 n)
M16 X 2.0	100 4 49 NSm (74 4 10 lb 0 n)	129 4 94 NSm (95 4 43 lb 0 n)	153 4 229 NSm (113 4 69 lb 0 n)
M18 X 1.5	151 4 225 NSm (111 4 66 lb 0 n)	195 4 293 NSm (144 4 216 lb 0 n)	229 4 346 NSm (169 4 255 lb 0 n)
M20 X 1.5	206 4 311 NSm (152 4 229 lb 0 n)	270 4 405 NSm (199 4 299 lb 0 n)	317 4 76 NSm (234 4 351 lb 0 n)
M22 X 1.5	251 4 414 NSm (185 4 305 lb 0 n)	363 4 544 NSm (268 4 401 lb 0 n)	424 4 636 NSm (313 4 469 lb 0 n)
M24 X 2.0	359 4 540 NSm (265 4 398 lb 0 n)	431 4 710 NSm (318 4 524 lb 0 n)	555 4 831 NSm (409 4 613 lb 0 n)
*Diameter X pitch in millimeters			



METRIC BOLTS—IDENTIFICATION CLASS NUMBERS CORRESPOND TO BOLT STRENGTH—INCRREASING NUMBERS REPRESENT INCREASING STRENGTH.

A1010010

MAINTENANCE AND REPAIR

MAINTENANCE AND LUBRICATION

NORMAL VEHICLE USE

The maintenance instructions contained in the maintenance schedule are based on the assumption that the vehicle will be used for the following reasons:

- To carry passengers and cargo within the limitation indicated on the tire placard located on the edge of the driver's door.
- To be driven on reasonable road surfaces and within legal operating limits.

EXPLANATION OF SCHEDULED MAINTENANCE SERVICES

The services listed in the maintenance schedule are further explained below. When the following maintenance services are performed, make sure all the parts are replaced and all the necessary repairs are done before driving the vehicle. Always use the proper fluid and lubricants.

Drive Belt Inspection

When a separate belt drives the power steering pump, the air conditioning compressor and the generator, inspect it for cracks, fraying, wear and proper tension. Adjust or replace the belt as needed.

Engine Oil and Oil Filter Change

Always use above the API SH grade or ACEA A1/A2/A3 engine oil. The SH designation may be shown alone or in combination with other designations such as SH/CC, SH/CD etc.

Engine Oil Viscosity

Engine oil viscosity (thickness) has an effect on fuel economy and cold weather operation. Lower viscosity engine oils can provide better fuel economy and cold weather performance; however, higher temperature weather conditions require higher viscosity engine oils for satisfactory lubrication. Using oils of any viscosity

other than those viscosities recommended could result in engine damage.

Cooling System Service

Drain, flush and refill the system with new coolant. Refer to "Recommended Fluids And Lubricants" in this section.

Fuel Micro-Filter Replacement

Replace the engine fuel filter every 40,000 km (24,000 miles).

The engine fuel filter is located on the center dash panel near the brake booster.

Air Cleaner Element Replacement

Replace the air cleaner element every 40,000 km (24,000 miles).

Replace the air cleaner more often under dusty conditions.

Throttle Body Mounting Bolt Torque

Check the torque of the mounting bolts.

Tighten the throttle body mounting bolts to 17 N·m (12 lb·ft) if necessary.

Spark Plug Replacement

Replace spark plugs with same type.

- Type: AC Type R9YC (SOHC)
- □ □ □ □ BPR6ES (SOHC)
- □ □ □ □ BKR6E1 (DOHC)
- Gap
- □ 0.7-0.8 mm (SOHC)
- □ 1.0-1.1 mm (DOHC)

Spark Plug Wire Replacement

Clean wires and inspect them for burns, cracks or other damage. Check the wire boot fit at the DIS module and at the spark plugs. Replace the wires as needed.

Brake System Service

Check the disc brake pads or the drum brake linings every 10,000 km (6,000 miles) or 12 months. Check the pad and the lining thickness carefully. If the pads or the linings are not expected to last another 10,000 km (6,000 miles), replace the pads or the linings. Check the breather hole in the brake fluid reservoir cap to be sure it is free from dirt and the passage is open.

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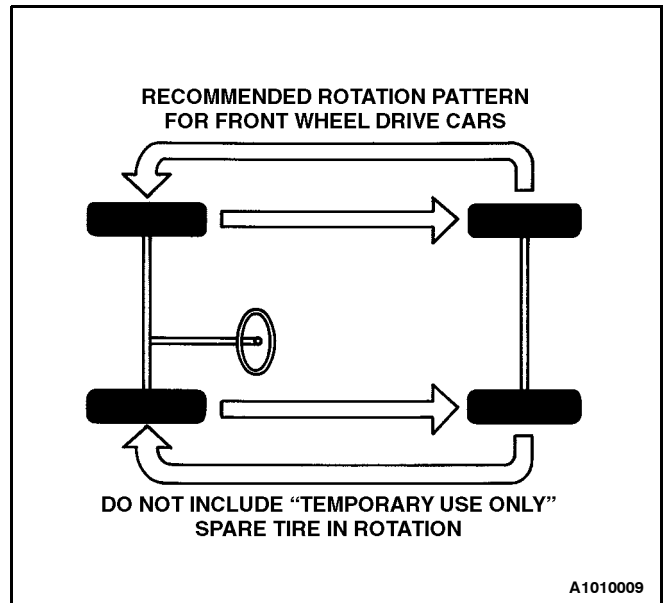
Transaxle Service

The manual transaxle fluid does not require changing. For automatic transaxles, refer to "Scheduled Maintenance Charts" in this section.

Tire and Wheel Inspection and Rotation

Check the tires for abnormal wear or damage. To equalize wear and obtain maximum tire life, rotate the tires. If irregular or premature wear exists, check the wheel alignment and check for damaged wheels. While the tires and wheels are removed, inspect the brakes. Refer to "Each Time The Oil Is Changed" in this section.

Tire Rotation



SCHEDULED MAINTENANCE CHARTS

Engine

Maintenance Item	Maintenance Interval										
	Kilometers (miles) or time in months, whichever comes first										
Kilometers x 1000	1	10	20	30	40	50	60	70	80	90	100
Miles x 1000	0.6	6	12	18	24	30	36	42	48	54	60
Months	—	6	12	18	24	30	36	42	48	54	60
Drive belts (alternator, power steering)	I	I	I	I	I	I	R	I	I	I	I
Engine oil and oil filter ^{1, 3}	I	R	R	R	R	R	R	R	R	R	R
Cooling system and hose connections		I	I	I	I	I	I	I	I	I	I
Engine coolant ³	I	I	I	I	R	I		I	R	I	I
Fuel filter					R				R		
Fuel line and connections			I		I		I		I		I
Air cleaner element ²		I	I	I	R	I	I	I	R	I	I
Ignition timing			I		I		I		I		I
Spark plugs		I	R	I	R	I	R	I	R	I	R
DIS Module			I		I		I		I		I
Charcoal canister and vapor lines					I				I		
PCV system				I			I			I	
Camshaft belt							I			R	

Chart Symbols:

I - Inspect and, if necessary, correct, clean, replenish or adjust.

R - Replace or change.

¹ If the vehicle is operated under severe conditions, such as short distance driving, extensive idling, or driving in dusty conditions, change the engine oil and the filter every 5,000 km (3,000 miles) or 3 months, whichever comes first.

² More frequently if driving in dusty conditions.

³ Refer to "Recommended Fluids And Lubricants" in this section.

Chassis and Body

Maintenance Item	Maintenance Interval										
	Kilometers (miles) or time in months, whichever comes first										
Kilometers x 1000	1	10	20	30	40	50	60	70	80	90	100
Miles x 1000	0.6	6	12	18	24	30	36	42	48	54	60
Months	—	6	12	18	24	30	36	42	48	54	60
Exhaust pipe and mountings	I	I	I	I	I	I	I	I	I	I	I
Brake/Clutch fluid ^{1, 5}	I	I	I	R	I	I	R	I	I	R	I
Rear brake drums and linings ³	I	I	I	I	I	I	I	I	I	I	I
Front brake pads and discs ³	I	I	I	I	I	I	I	I	I	I	I
Parking brake	I	I	I	I	I	I	I	I	I	I	I
Brake line and connections (including booster)	I	I	I	I	I	I	I	I	I	I	I
Rear hub bearing and clearance	I	I	I	I	I	I	I	I	I	I	I
Manual transaxle oil ¹	I	I	I	I	I	I	I	I	I	I	I
Clutch and brake pedal free play	I	I	I	I	I	I	I	I	I	I	I
Automatic transaxle fluid ^{*1, 4}	I	I	I	I	I	I	I	I	I	I	I
Tighten chassis and underbody bolts and nuts	I	I	I	I	I	I	I	I	I	I	I
Tire condition and inflation pressure	I	I	I	I	I	I	I	I	I	I	I
Wheel alignment ²	Inspect when abnormal condition is noted										
Steering wheel and linkage	I	I	I	I	I	I	I	I	I	I	I
Power steering fluid and lines ^{*1}	I	I	I	I	I	I	I	I	I	I	I
Drive shaft boots	I	I	I	I	I	I	I	I	I	I	I
Seat belts, buckles and anchors	I	I	I	I	I	I	I	I	I	I	I
Lubricate locks, hinges and hood latch	I	I	I	I	I	I	I	I	I	I	I

Chart Symbols:

I - Inspect and, if necessary, correct, clean, replenish, or adjust.

R - Replace or change.

¹ Refer to "Recommended Fluids And Lubricants" in this section.

² And, if necessary, rotate and balance the wheels.

³ More frequently if operated under severe conditions which include the following: short distance driving, extensive idling, frequent low speed operation in stop-and-go traffic, or driving in dusty conditions.

⁴ The automatic transaxle fluid and filter do not require changing, unless operated under any of these conditions: heavy city driving where the temperature regularly reaches 32_C (90_F) or higher, hilly terrain, frequent trailer towing, or taxi, police or delivery service driving. If operated under any of these conditions, change the fluid and the filter every 75,000 km (45,000 miles).

⁵ Change the brake/clutch fluid every 15,000 km (9,000 miles) if the vehicle is mainly driven under the following severe conditions: driving in hilly or mountainous terrain, or towing a trailer/caravan frequently.

OWNER INSPECTIONS AND SERVICES

WHILE OPERATING THE VEHICLE

Horn Operation

Blow the horn occasionally to make sure it works. Check all the button locations.

Brake System Operation

Be alert for abnormal sounds, increased brake pedal travel or repeated pulling to one side when braking. Also, if the brake warning light goes on, or flashes, something may be wrong with part of the brake system.

Exhaust System Operation

Be alert to any changes in the sound of the system or the smell of the fumes. These are signs that the system may be leaking or overheating. Have the system inspected and repaired immediately.

Tires, Wheels and Alignment Operation

Be alert to any vibration of the steering wheel or the seats at normal highway speeds. This may mean a wheel needs to be balanced. Also, a pull right or left on a straight, level road may show the need for a tire pressure adjustment or a wheel alignment.

Steering System Operation

Be alert to changes in the steering action. An inspection is needed when the steering wheel is hard to turn or has too much free play, or if unusual sounds are noticed when turning or parking.

Headlight Aim

Take note of the light pattern occasionally. Adjust the headlights if the beams seem improperly aimed.

AT EACH FUEL FILL

A fluid loss in any (except windshield washer) system may indicate a problem. Have the system inspected and repaired immediately.

Engine Oil Level

Check the oil level and add oil if necessary. The best time to check the engine oil level is when the oil is warm.

1. After stopping the engine, wait a few minutes for the oil to drain back to the oil pan.
2. Pull out the oil level indicator (dip stick).
3. Wipe it clean, and push the oil level indicator back down all the way.
4. Pull out the oil level indicator and look at the oil level on it.
5. Add oil, if needed, to keep the oil level above the MIN line and within the area labeled "Operating Range." Avoid overfilling the engine, since this may cause engine damage.

6. Push the indicator all the way back down into the engine after taking the reading.

If you check the oil level when the oil is cold, do not run the engine first. The cold oil will not drain back to the pan fast enough to give a true oil level reading.

Engine Coolant Level and Condition

Check the coolant level in the coolant reservoir tank and add coolant if necessary. Inspect the coolant. Replace dirty or rusty coolant.

Windshield Washer Fluid Level

Check the washer fluid level in the reservoir. Add fluid if necessary.

AT LEAST MONTHLY

Tire And Wheel Inspection and Pressure Check

Check the tires for abnormal wear or damage. Also check for damaged wheels. Check the tire pressure when the tires are cold (check the spare also, unless it is a stowaway). Maintain the recommended pressures that are on the tire placard that is in the glove box.

Light Operation

Check the operation of the license plate light, the headlights (including the high beams), the parking lights, the fog lights, the taillight, the brake lights, the turn signals, the backup lights and the hazard warning flasher.

Fluid Leak Check

Periodically inspect the surface beneath the vehicle for water, oil, fuel or other fluids, after the vehicle has been parked for a while. Water dripping from the air conditioning system after use is normal. If you notice fuel leaks or fumes, find the cause and correct it at once.

AT LEAST TWICE A YEAR

Power Steering System Reservoir Level

Check the power steering fluid level. Keep the power steering fluid at the proper level. Refer to Section 5A, Power Steering System.

Brake Master Cylinder Reservoir Level

Check the fluid and keep it at the proper level. A low fluid level can indicate worn disc brake pads which may need to be serviced. Check the breather hole in the reservoir cover to be free from dirt and check for an open passage.

Clutch Pedal Free Travel

Check clutch pedal free travel and adjust as necessary every 10,000 km (6,000 miles). Measure the distance from the center of the clutch pedal to the outer edge of the steering wheel with the clutch pedal not depressed. Then measure the distance from the center of the clutch pedal to the outer edge of the steering wheel with the

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clutch pedal fully depressed. The difference between the two values must be greater than 130 mm (5.19 inches).

Weather-Strip Lubrication

Apply a thin film silicone grease using a clean cloth.

EACH TIME THE OIL IS CHANGED

Automatic Transaxle Fluid

Refer to 4T40E fluid level service procedure of Section 3A, 4T40E Automatic Transaxle.

Manual Transaxle

Check the fluid level and add fluid as required. Refer to Section 3B, Five-Speed Manual Transaxle.

Brake System Inspection

This inspection should be done when the wheels are removed for rotation. Inspect the lines and the hoses for proper hookup, binding, leaks, cracks, chafing, etc. Inspect the disc brake pads for wear. Inspect the rotors for surface condition. Also inspect the drum brake linings for wear and cracks. Inspect other brake parts, including the drums, the wheels cylinders, the parking brake, etc., at the same time. Check the parking brake adjustment. Inspect the brakes more often if habit or conditions result in frequent braking.

Steering, Suspension and Front Drive Axle Boot And Seal Inspection

Inspect the front and rear suspension and the steering system for damaged, loose or missing parts, signs of wear or lack of lubrication. Inspect the power steering lines and the hoses for proper hookup, binding, leaks, cracks, chafing, etc. Clean and inspect the drive axle boot and seals for damage, tears or leakage. Replace the seals if necessary.

Exhaust System Inspection

Inspect the complete system (including the catalytic converter if equipped). Inspect the body near the exhaust system. Look for broken, damaged, missing, or out of position parts as well as open seams, holes, loose connections, or other conditions which could cause heat buildup in the floor pan or could let exhaust fumes seep into the trunk or passenger compartment.

Throttle Linkage Inspection

Inspect the throttle linkage for interference or binding, damaged, or missing parts. Lubricate all linkage joints and throttle cable joints, the intermediate throttle shaft bearing, the return spring at throttle valve assembly, and the accelerator pedal sliding face with suitable grease. Check the throttle cable for free movements.

Engine Drive Belts

Inspect all belts for cracks, fraying, wear and proper tension. Adjust or replace the belts as needed.

Hood Latch Operation

When opening the hood, note the operation of the secondary latch. It should keep the hood from opening all the way when the primary latch is released. The hood must close firmly.

AT LEAST ANNUALLY

Lap and Shoulder Belts Condition and Operation

Inspect the belt system including: the webbing, the buckles, the latch plates, the retractor, the guide loops and the anchors.

Movable Head Restraint Operation

On vehicles with movable head restraints, the restraints must stay in the desired position.

Spare Tire and Jack Storage

Be alert to rattles in the rear of the vehicle. The spare tire, all the jacking equipment, and the tools must be securely stowed at all times. Oil the jack ratchet or the screw mechanism after each use.

Key Lock Service

Lubricate the key lock cylinder.

Body Lubrication Service

Lubricate all the body door hinges including the hood, the fuel door, the rear compartment hinges and the latches, the glove box and the console doors, and any folding seat hardware.

Transaxle Neutral Switch Operation on Automatic Transaxle

Caution: Take the following precautions because the vehicle could move without warning and possibly cause personal injury or property damage:

- D Firmly apply the parking brake and the regular brakes.
- D Do not use the accelerator pedal.
- D Be ready to promptly turn off the ignition if the vehicle starts.

On automatic transaxle vehicles, try to start the engine in each gear. The starter should crank only in P (Park) or N (Neutral).

Parking Brake and Transaxle P (Park) Mechanism Operation

Caution: In order to reduce the risk of personal injury or property damage, be prepared to apply the regular brakes promptly if the vehicle begins to move.

Park on a fairly steep hill with enough room for movement in the downhill direction. To check the parking

brake, with the engine running and the transaxle in N (Neutral), slowly remove foot pressure from the regular brake pedal (until only the parking brake is holding the vehicle).

To check the automatic transaxle P (Park) mechanism's holding ability, release all brakes after shifting the transaxle to P (Park).

Underbody Flushing

Flushing the underbody will remove any corrosive materials used for ice and snow removal and dust control. At least every spring clean the underbody. First, loosen the sediment packed in closed areas of the vehicle. Then flush the underbody with plain water.

Engine Cooling System

Inspect the coolant and freeze protection fluid. If the fluid is dirty or rusty, drain, flush and refill the engine cooling system with new coolant. Keep the coolant at the proper mixture in order to ensure proper freeze protection, corrosion protection and engine operating temperature. Inspect the hoses. Replace the cracked, swollen, or deteriorated hoses. Tighten the clamps. Clean the outside of the radiator and the air conditioning condenser. Wash the filler cap and the neck. Pressure test the cooling system and the cap in order to help ensure proper operation.

RECOMMENDED FLUIDS AND LUBRICANTS

Usage	Capacity	Fluid/Lubricant
Engine Oil	3.75L	API SH grade or ACEA A1/A2/A3 SAE 5W 30 , SAE 10W 30 , SAE 10W 40 , SAE 15W 40 (Cold area: SAE 5W 30 Hot area: SAE 15W 40)
Engine Coolant	M/T (1.3L and 1.5L SOHC, 1.6L DOHC) - 7.0L A/T 1.5L SOHC and 1.6L DOHC) - 7.0L	Mixture of water and good quality ethylene glycol base antifreeze (year round coolant)
Brake Fluid and Clutch Fluid	0.5L (0.53 qt)	DOT 3 or DOT 4
Power Steering System	1.0L (1.06 qt)	DEXRON [®] II
Automatic Transaxle	11.5L (12.15 qt)	DEXRON [®] III
Manual Transaxle	1.8L (1.90 qt)	Manual Transaxle Fluid (B0400075, SAE80 or equivalent)
Manual Transaxle Shift Linkage	As required	Multipurpose type grease meeting requirements NLGI No. 1 or 2
Key Lock Cylinders	As required	Silicone lubricant
Automatic Transaxle Shift Linkage	As required	Engine oil
Clutch Linkage Pivot Points	As required	Engine oil
Floor Shift Linkage Points	As required	Engine oil
Hood Latch Assembly a. Pivots and Spring Anchor b. Release Pawl	As required	a. Engine oil b. Multipurpose type grease meeting requirements NLGI No. 1 or 2
Hood and door hinges Fuel door hinge Rear compartment lid hinges	As required	Engine oil
Weatherstrips	As required	Silicone grease

GENERAL DESCRIPTION AND SYSTEM OPERATION

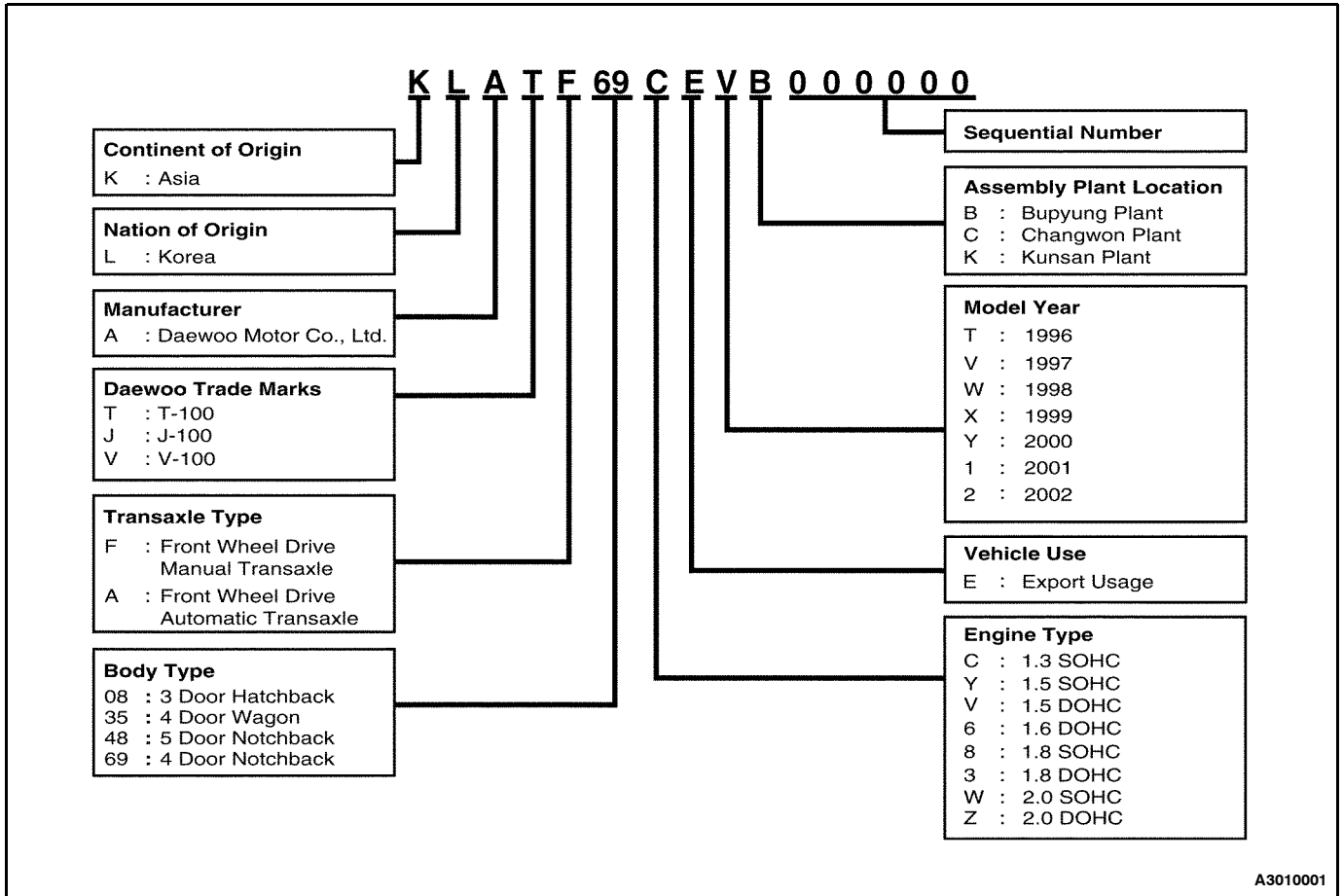
GENERAL REPAIR INSTRUCTIONS

- D If a floor jack is used, the following precautions are recommended.
- D Park the vehicle on level ground, "block" the front or rear wheels, set the jack against the frame, raise the vehicle and support it with chassis stands and then perform the service operation.
- D Before performing the service operation, disconnect the negative battery cable in order to reduce the chance of cable damage and burning due to short-circuiting.
- D Use a cover on the body, the seats and the floor to protect them against damage and contamination.
- D Handle brake fluid and antifreeze solution with care as they can cause paint damage.
- D The use of proper tools, and the recommended essential and available tools where specified, are important for efficient and reliable performance of the service repairs.
- D Use genuine DAEWOO parts.
- D Discard used cotter pins, gaskets, O-rings, oil seals, lock washers and self-locking nuts. Prepare new ones for installation. Normal function of these parts cannot be maintained if these parts are reused.
- D Keep the disassembled parts neatly in groups to facilitate proper and smooth reassembly.
- D Keep attaching bolts and nuts separated, as they vary in hardness and design depending on the position of the installation.
- D Clean the parts before inspection or reassembly.
- D Also clean the oil parts, etc. Use compressed air to make certain they are free of restrictions.
- D Lubricate rotating and sliding faces of parts with oil or grease before installation.
- D When necessary, use a sealer on gaskets to prevent leakage.
- D Carefully observe all specifications for bolt and nut torques.
- D When service operation is completed, make a final check to be sure service was done properly and the problem was corrected.

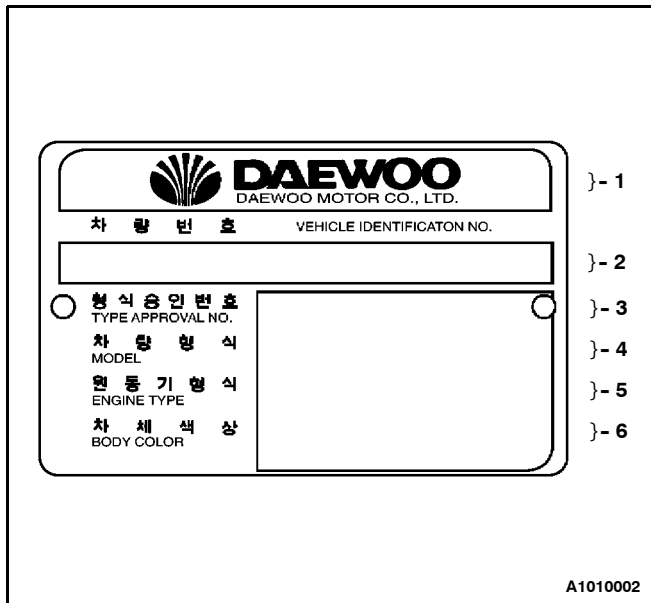
GENERAL DESCRIPTION

VEHICLE AND COMPONENT IDENTIFICATION

Passenger Car Vehicle Identification Number

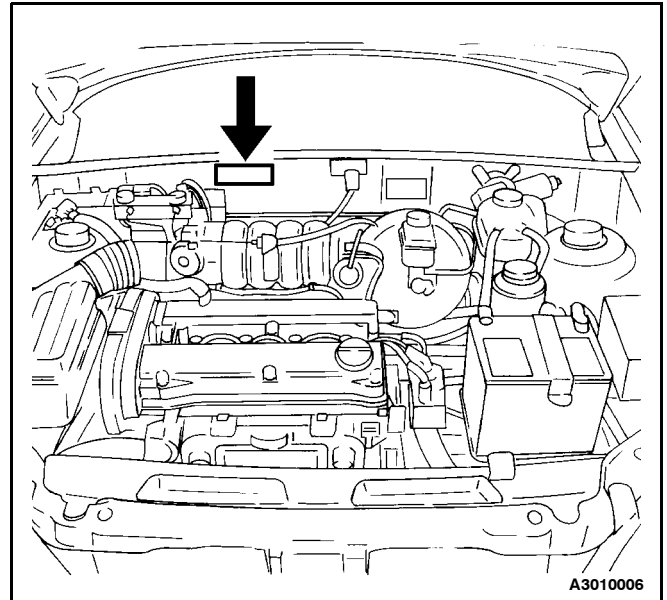


VIN Plate



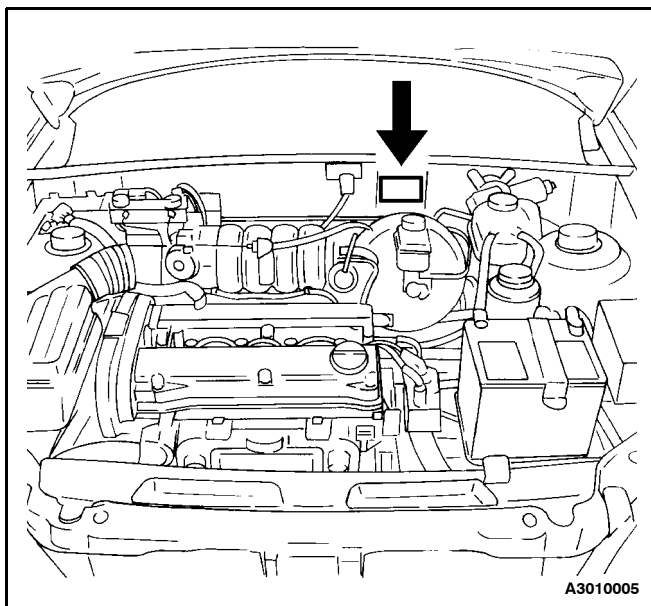
- 1 Manufacturer
- 2 Vehicle Identification Number
- 3 Blank
- 4 Vehicle Model
- 5 Engine Type
- 6 Body Color

Engraved VIN Location (Left-Hand Drive Shown, Right-Hand Drive Similar)



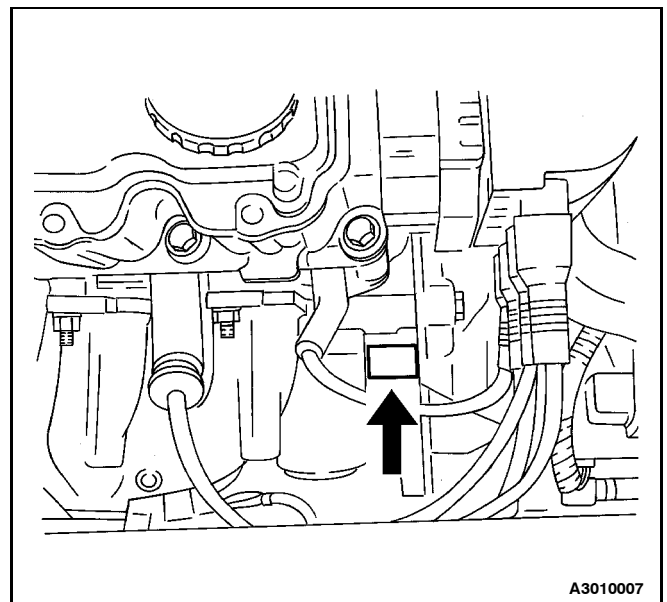
The vehicle identification number (VIN) is engraved in the top of the bulkhead, next to the ABS module.

VIN Plate Location (Left-Hand Drive Shown, Right-Hand Drive Similar)



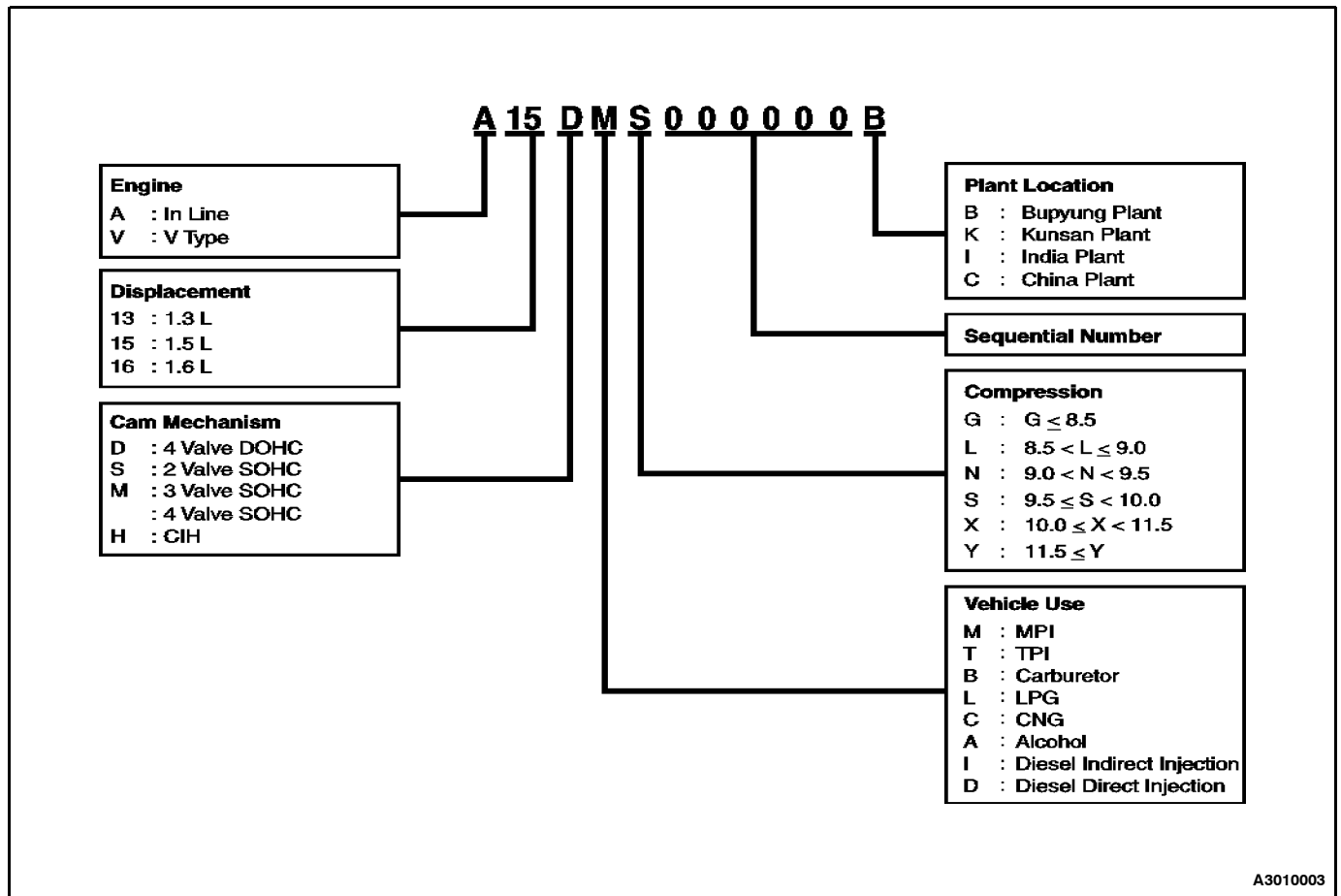
The vehicle identification number (VIN) plate is attached to the top of the bulkhead, next to the wiper motor.

Engine Number Location - SOHC



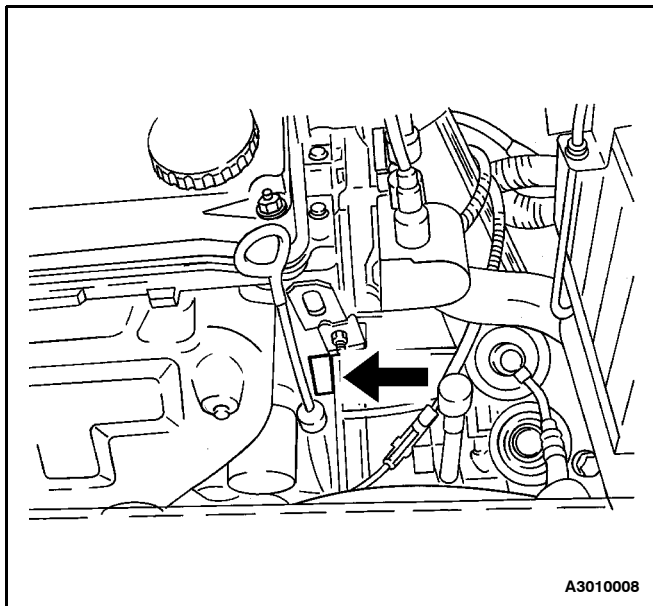
The engine number is stamped on the cylinder block under the No. 4 exhaust manifold of the engine.

Engine Number



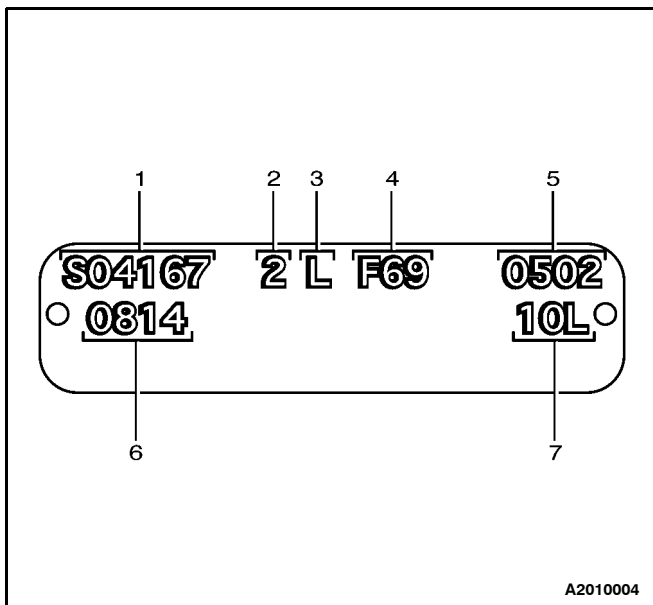
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Engine Number Location - DOHC



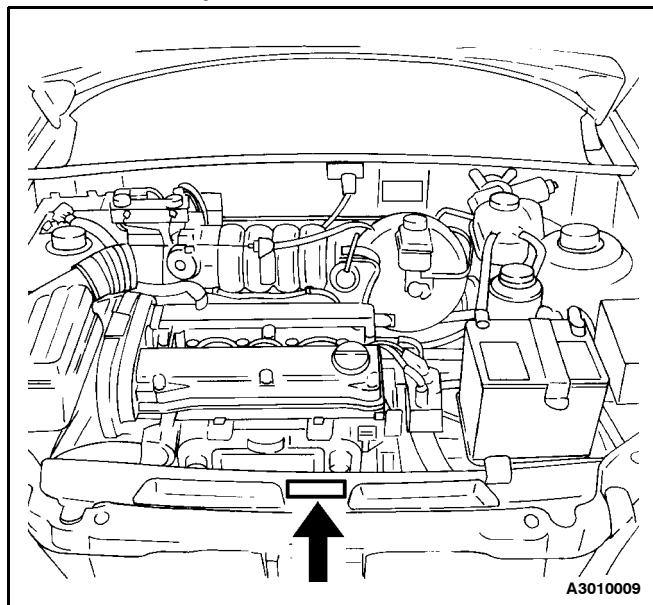
The engine number is stamped on the cylinder block under the No. 4 exhaust manifold of the engine.

Body Identification Number Plate



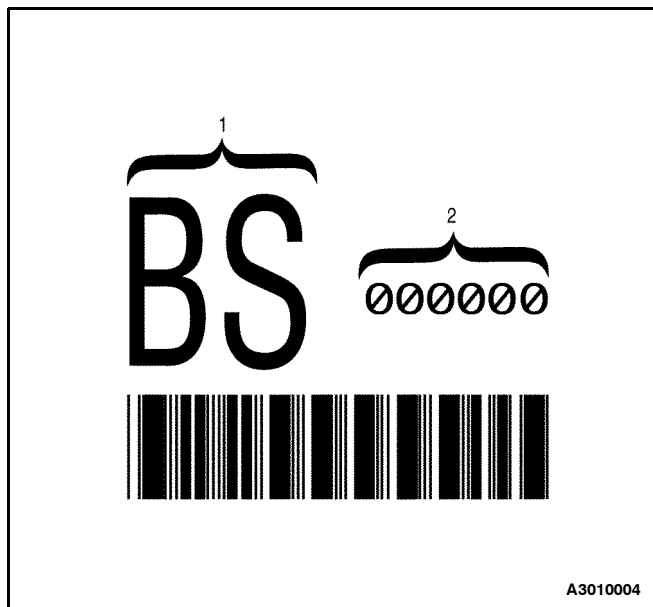
- 1 P/O Number
- 2 Check Digit
- 3 Drive
- 4 Body Type
- 5 P/O Date
- 6 Sequential Number
- 7 Exterior Color

Body Identification Number Plate Location (Left-Hand Drive Shown, Right-Hand Drive Similar)



The body identification number plate is attached to the top of the front panel support.

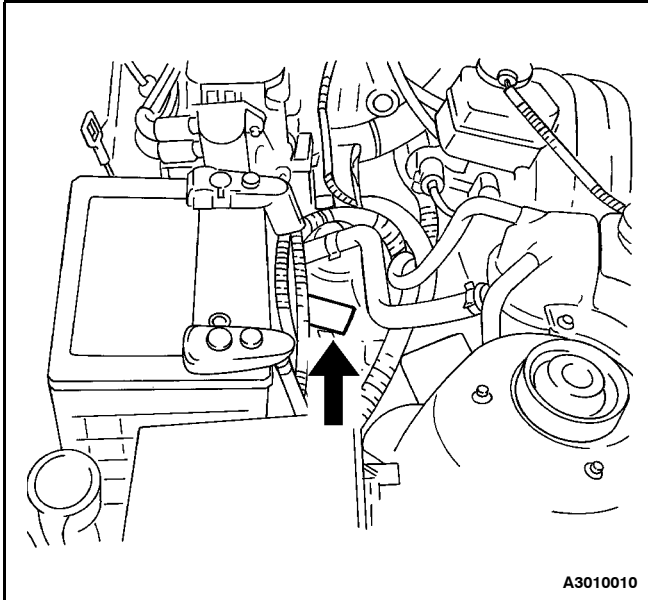
Manual Transmission Identification Number Plate



- 1 Identification Code
- 2 Sequential Number

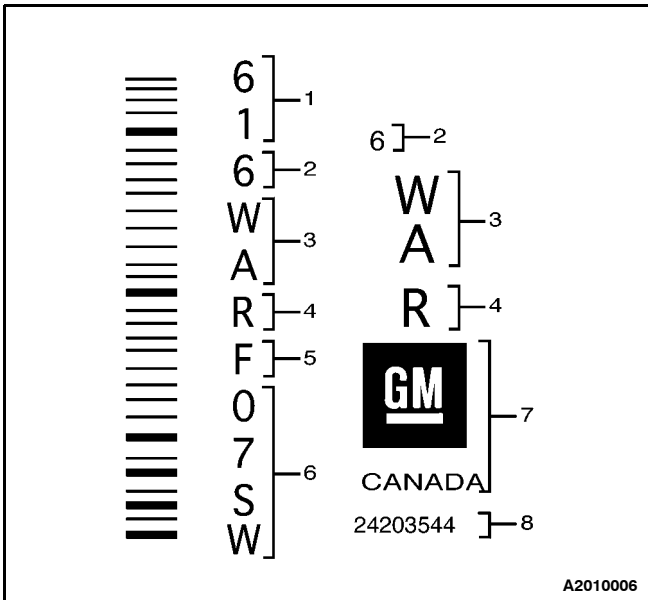
Identification Code	Engine	Gear Ratio
VG	1.3L SOHC	3.944 W/R
MA	1.5L SOHC	4.176 M/R
BS	1.6L DOHC	3.722 C/R

Manual Transaxle Identification Number Plate Location (Left-Hand Drive Shown, Right-Hand Drive Similar)



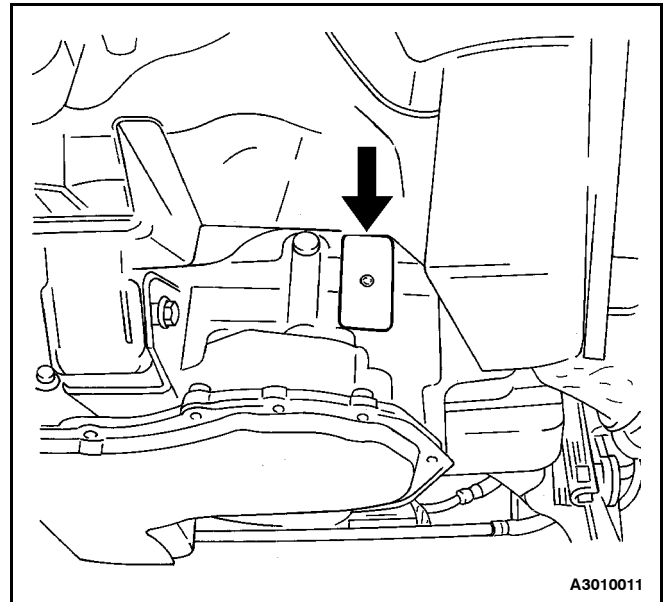
The manual transaxle identification number is attached to the top of the transmission case near the engine.

Automatic Transmission Identification Number Plate



- 1 Assembly Plant (Windsor, Canada)
- 2 Model Year (1996)
- 3 Broadcast Code
- 4 Model Name (4T40E)
- 5 Update Level
- 6 Sequential Number
- 7 Manufacturer
- 8 Part Number

Automatic Transaxle Identification Number Plate Location

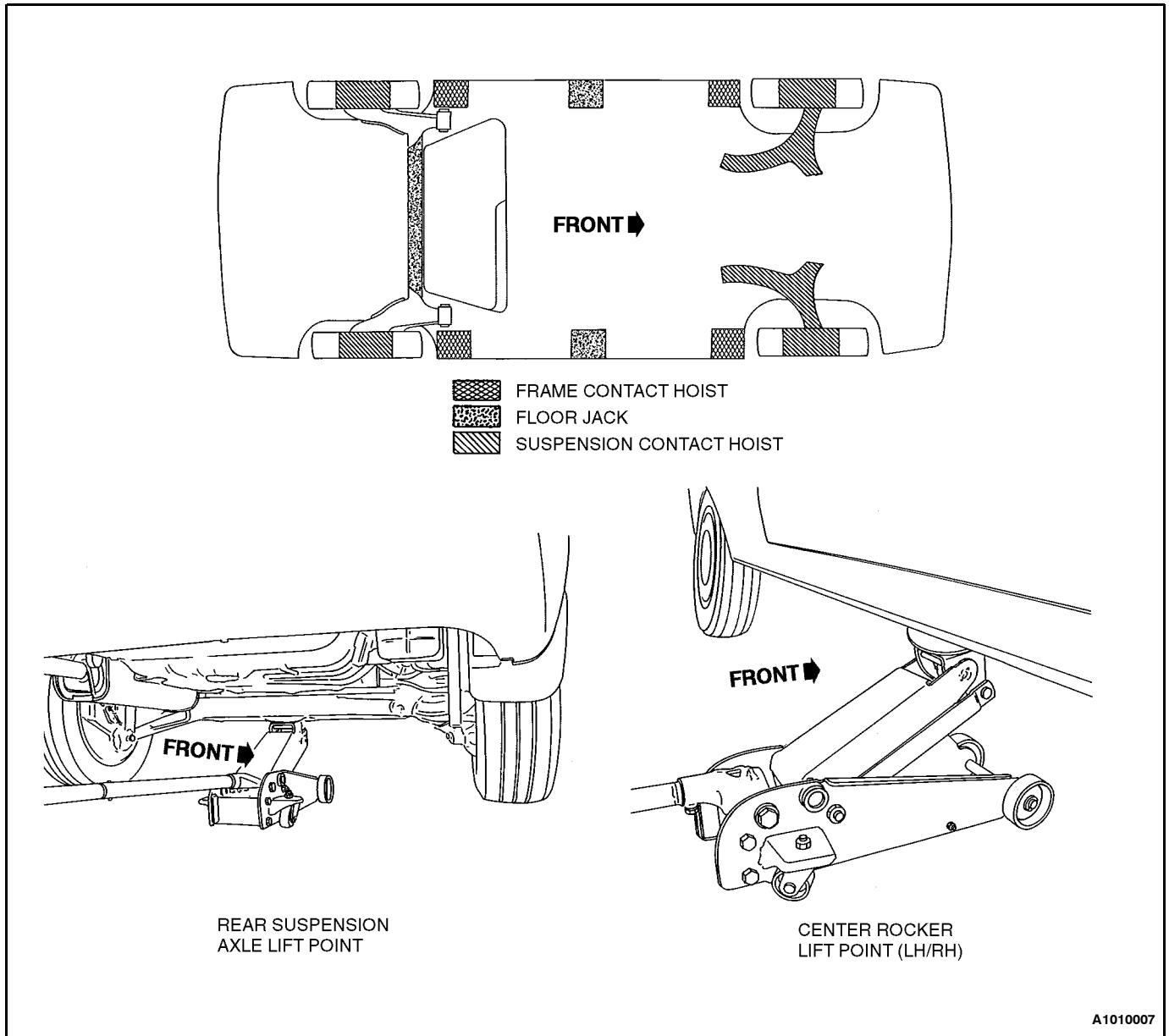


The automatic transaxle identification number plate is attached on the rear side of the transmission near the bulkhead.

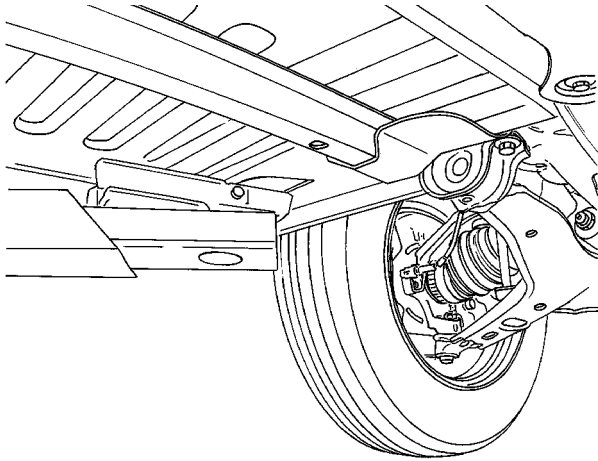
VEHICLE LIFTING PROCEDURES

Notice: To raise the vehicle, place the lifting equipment only at the points indicated. Failure to use these precise positions may result in permanent vehicle body deformation. Many dealer service facilities and service stations are equipped with automotive hoists that bear upon some parts of the frame in order to lift the vehicle. If any other hoist method is used, use special care to avoid damaging the fuel tank, the filler neck, the exhaust system, or the underbody.

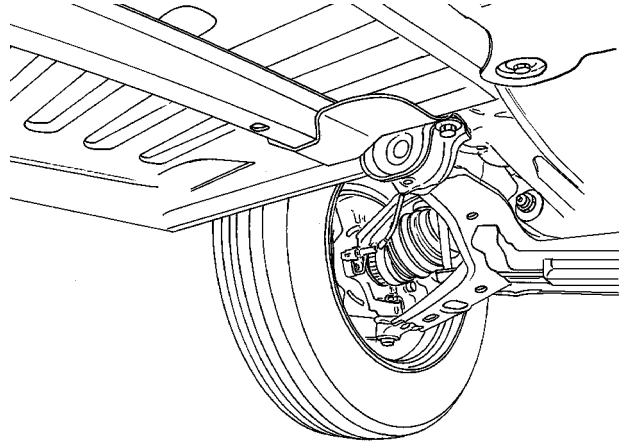
Vehicle Lifting Points



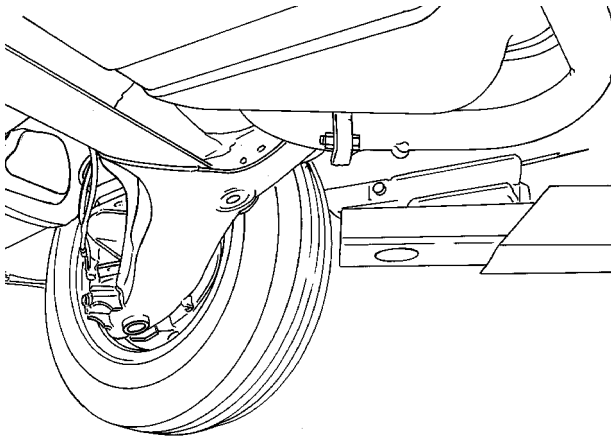
Vehicle Lifting Points



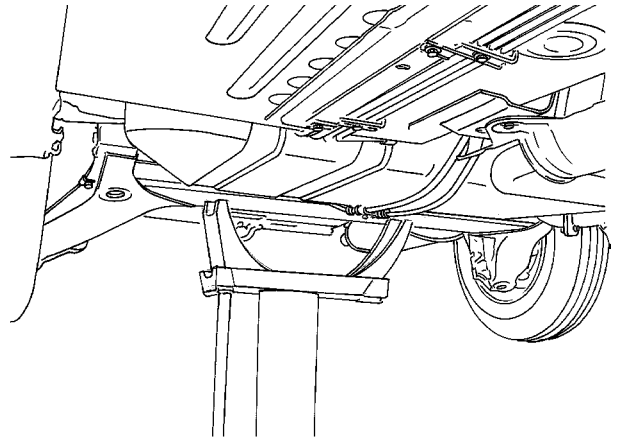
FRAME CONTACT HOIST
-REARWARD OF FRONT TIRE-



SUSPENSION CONTACT HOIST
-UNDER FRONT LOWER CONTROL ARM-



FRAME CONTACT HOIST
-FORWARD OF REAR TIRE-



SUSPENSION CONTACT HOIST
-LIFTING ON REAR AXLE-

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