

ZF010A1-A

5. THE KEY TO TROUBLE-FREE OPERATION

Vehicle Maintenance Requirements

VEHICLE MAINTENANCE REQUIREMENTS

ZF020A1-A

MAINTENANCE AND SERVICE REQUIREMENTS

To assure that you receive the greatest number of miles of satisfying operation from your Hyundai, certain maintenance procedures must be performed. Although careful design and engineering have reduced these to a minimum, those that are required are of the utmost importance.

It is your responsibility to have these maintenance procedures performed to comply with the terms of the warranties covering your new Hyundai. The Owner's Handbook supplied with your new vehicle provides further information about these warranties.

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Maintenance Requirements

The maintenance required for your Hyundai can be divided into three main areas:

- o Specified scheduled procedures
- o General everyday checks
- o Do-it-yourself maintenance

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Specified Scheduled Procedures

These are the procedures such as inspections, adjustments and replacements that are listed in the maintenance charts starting on page 5-3. These procedures must be performed at the intervals shown in the maintenance schedule to

assure that your warranty remains in effect. Although it is strongly recommended that they be performed by the factory-trained technicians at your Hyundai dealer, these procedures may be performed at any qualified service facility. It is suggested that genuine Hyundai service parts be used for any required repairs or replacements. Other parts of equivalent quality may be used without affecting your warranty coverage but you should always be sure these are equivalent to the quality of the original Hyundai parts. Your Owner's Handbook provides further information about your warranty coverage.

ZF020D2-A

General Everyday Checks

These are the everyday checks you should perform each time you drive your Hyundai or when you fill the fuel tank. A list of these items will be found on page 6-3.

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Do-It-Yourself Maintenance

If you are mechanically inclined, own a few tools that are required and want to take the time to do so, you can inspect and service a number of items. For more information about doing it yourself, see Section 6.

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A Few Tips

- o Whenever you have your Hyundai serviced, keep copies of the service records in your glovebox. This will help assure that you can document that the required procedures have been performed to keep your warranties in effect. This is especially important when service is not performed at an authorized Hyundai dealer.
- o If you choose to do your own maintenance and repairs, you may find it helpful to have an official Hyundai Shop Manual. A copy of this publication may be purchased at your Hyundai dealer's parts department.

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SCHEDULED MAINTENANCE REQUIREMENTS

- o Inspection should be performed any time a malfunction is experienced or suspected.
- o Receipts for all emission control system services should be retained to demonstrate compliance with conditions of the emissions system warranty.
- o After 70 months or 60,000 miles (96,000 km), continue to follow the prescribed maintenance and intervals periodically.
- o For severe usage maintenance requirements, see page 5-5 of this section.

VEHICLE MAINTENANCE REQUIREMENTS

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SCHEDULED MAINTENANCE

The following maintenance services must be performed to assure good emission control and performance. Keep receipts for all vehicle emission services to protect your emission warranty.

Where both mileage and time are shown, the frequency of service is determined by whichever occurs first.

JF040B1-A

R : REPLACE I : INSPECT AND, AFTER INSPECTION, CLEAN, ADJUST, REPAIR OR REPLACE IF NECESSARY

NO.	DESCRIPTION	MILES X 1000	7.5	15	22.5	30	37.5	45	52.5	60
		KILOMETERS X 1000	12	24	36	48	60	72	84	96
		MONTHS	5	10	20	30	40	50	60	70
EMISSION CONTROL ITEMS										
1	ENGINE OIL AND FILTER		R	R	R	R	R	R	R	R
2	FUEL FILTER								R	
3	FUEL LINES AND CONNECTIONS								I	
4	VACUUM, CRANKCASE VENTILATION HOSES								I	
5	FUEL HOSE, VAPOR HOSE & FUEL FILLER CAP								I	
6	AIR CLEANER FILTER					R				R
7	SPARK PLUGS					R				R

VEHICLE MAINTENANCE REQUIREMENTS

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R : REPLACE I : INSPECT AND, AFTER INSPECTION, CLEAN, ADJUST, REPAIR OR REPLACE IF NECESSARY

NO.	DESCRIPTION	MILES X 1000	7.5	15	22.5	30	37.5	45	52.5	60
		KILOMETERS X 1000	12	24	36	48	60	72	84	96
		MONTHS	5	10	20	30	40	50	60	70
GENERAL ITEMS										
1	DRIVE BELT (WATER PUMP AND GENERATOR)					I				I
2	ENGINE COOLANT (FOR EVERY 2 YEARS)					R				R
3	TIMING BELT									R
4	MANUAL TRANSAXLE OIL					I				I
5	AUTOMATIC TRANSAXLE OIL		I			R		I		R
6	BRAKE FLUID					R				R
7	BRAKE HOSES, LINES			I		I		I		I
8	REAR BRAKE DRUMS/LININGS/PARKING BRAKE					I				I
9	BRAKE PADS, CALIPERS, ROTORS			I		I		I		I
10	EXHAUST PIPE CONNECTIONS, MUFFLER & SUSPENSION BOLTS					I				I
11	STEERING GEAR RACK, LINKAGE & BOOTS					I				I
12	WHEEL BEARING GREASE					I				I
13	DRIVESHAFTS & BOOTS			I		I		I		I

VEHICLE MAINTENANCE REQUIREMENTS

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MAINTENANCE UNDER SEVERE USAGE CONDITIONS

The following items must be serviced more frequently on cars normally used under severe driving conditions. Refer to the chart below for the appropriate maintenance intervals.

I : Inspect, correct or replace if necessary. R : Replace

MAINTENANCE ITEM	MAINTENANCE OPERATION	MAINTENANCE INTERVALS	DRIVING CONDITION
ENGINE OIL AND FILTER	R	EVERY 3,000 MILES(4,800 KM) OR 3 MONTHS	A, B, C, F, H
AIR CLEANER FILTER	R	MORE FREQUENTLY	C, E
SPARK PLUGS	R	EVERY 24,000 MILES (40,000 KM) OR 18 MONTHS	B, H
BRAKE PADS, CALIPERS, ROTORS	I	MORE FREQUENTLY	C, D, G, H
REAR BRAKE DRUMS/LININGS	I	MORE FREQUENTLY	C, D, G, H
STEERING GEAR RACK, LINKAGE & BOOTS	I	MORE FREQUENTLY	C, D, E, F, G
DRIVESHAFTS & BOOTS	I	EVERY 7,500 MILES (12,000 KM) OR 6 MONTHS	C, E, F
AUTOMATIC TRANSAXLE OIL	R	EVERY 15,000 MILES (24,000 KM) OR 10 MONTHS	B, G, H

SEVERE DRIVING CONDITIONS
 A - Repeated short distance driving
 C - Driving in dusty conditions
 E - Driving in sandy areas
 G - Driving in mountainous areas

B - Extensive idling
 D - Driving in areas using salt or other corrosive materials or in very cold weather
 F - More than 50% driving in heavy city traffic during hot above 90 °F (32 °C)
 H - Towing a trailer

VEHICLE MAINTENANCE REQUIREMENTS

ZF060A1-A

EXPLANATION OF SCHEDULED MAINTENANCE ITEMS

o Engine oil and filter

The engine oil and filter should be changed at those intervals specified in the maintenance schedule. If the car is being driven in severe conditions, more frequent oil and filter changes are required.

ZF060G1-A

o Fuel lines and connections

Check the fuel lines and connections for leakage and damage. Replace any damaged or leaking parts immediately.

o Fuel filter

ZF060B1-A

o Fuel filter

A clogged filter can limit the speed at which the vehicle may be driven, damage the emission system and cause hard starting. If an excessive amount of foreign matter accumulates in the fuel tank, the filter may require replacement more frequently.

After installing a new filter, run the engine for several minutes, and check for leaks at the connections.

ZF060H1-A

o Vacuum, and crankcase ventilation hoses

Inspect the surface of hoses for evidence of heat and/or mechanical damage. Hard and brittle rubber, cracking, tears, cuts, abrasions, and excessive swelling indicate deterioration. Particular attention should be paid to examine those hose surfaces nearest to high heat sources, such as the exhaust manifold.

Inspect the hose routing to assure that the hoses do not come in contact with any heat source, sharp edges or moving component which might cause heat damage or mechanical wear. Inspect all hose connections, such as clamps and couplings, to make sure they are secure, and that no leaks are present. Hoses should be replaced immediately if there is any evidence of deterioration or damage.

ZF060I1-A

o Fuel hose, vapor hose and fuel filler cap

The fuel hose, vapor hose and fuel filler cap should be inspected at those intervals specified in the maintenance schedule. Make sure that a new fuel hose, vapor hose or fuel filler cap is correctly replaced. Consult your Hyundai dealer if you have any questions.

ZF060J1-A

o Air cleaner filter

A genuine Hyundai part is recommended for replacement of the air cleaner filter.

ZF060M1-A

o Spark plugs

Make sure to install new spark plugs of the correct heat range.

ZF060C1-A

o Drive belts

Inspect all drive belts (for water pump and generator) for evidence of cuts, cracks, excessive wear or oiliness, and replace if necessary. Drive belts should be checked periodically for proper tension and adjusted as necessary.

ZF070F2-A

o Engine coolant

The engine coolant should be changed at those intervals specified in the Vehicle Maintenance Requirements Section.

VEHICLE MAINTENANCE REQUIREMENTS

ZF070G1-A

o Timing belt

Inspect all parts related with the timing belt for damage and deformation. Replace any damaged parts.

ZF070H1-A

o Manual transaxle oil

Check manual transaxle oil according to the maintenance schedule.

NOTE:

If the oil level is low, check for possible leaks before adding oil. Do not overfill.

ZF070I3-A

o Automatic transaxle fluid

The fluid level should be in the "HOT" range of the dipstick, after engine and transaxle are at normal operating temperature. Check the Automatic Transaxle Fluid level with the engine running and the transaxle in neutral, with the parking brake properly applied. Use GENUINE HYUNDAI ATF AUTOMATIC TRANSAXLE FLUID, MOPAR ATF PLUS TYPE 7176 or DIAMOND ATF SP, when adding or changing fluid.

ZF070J1-A

o Brake hoses and lines

Visually check for proper installation, chafing, cracks, deterioration and any leakage. Replace any deteriorated or damaged parts immediately.

ZF070K1-A

o Brake fluid

Check brake fluid level in the brake fluid reservoir. The level should be between "MIN" and "MAX" marks on the side of the reservoir. Use only hydraulic brake fluid conforming to DOT 3.

ZF070L1-A

o Rear brake drums and linings

Check for scoring, burning, leaking fluid, broken parts, and excessive wear.

ZF070M1-A

o Brake pads, calipers and rotors

Check the pads for excessive wear, discs for run out and wear, and calipers for fluid leakage.

ZF070N1-A

o Parking brake

Inspect the parking brake system such as parking brake lever, cables, and so on. For detailed service procedures, refer to the Shop Manual.

ZF070O1-A

o Exhaust pipe connections, muffler and suspension bolts

Check the exhaust pipe, muffler, and suspension connections for looseness or damage.

ZF070P1-A

o Steering gear box, linkage and boots

With the car stopped and engine off, check for excessive free-play in the steering wheel. Check the linkage for bends or damage. Check the dust boots and ball joints for deterioration, cracks, or damage. Replace any damaged parts.

ZF070Q1-A

o Wheel bearing grease

Check the wheel bearings and grease according to the maintenance schedule. For inspection procedures, see Shop Manual.

ZF070R1-A

o Driveshafts and boots

Check the drive shafts, boots and clamps for cracks, deterioration, or damage. Replace any damaged parts and, if necessary, repack the grease.