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Chapter 1

Routine maintenance and servicing

Contents

Air cleaner element - renewal	Hose and fluid leak check
Alternator V-belt check	Idle speed and mixture check
Automatic transmission check	Ignition timing
Automatic transmission fluid level check 8	Intensive maintenance
Automatic transmission fluid renewal	Introduction
Bodywork check	Lock and hinge check2
Brake fluid renewal	Manual transmission fluid check
Brake pad check	Pollen filter - renewal
Brake shoe check	Power steering fluid check
Clutch cable check	Power steering pump drivebelt check
Coolant renewal	Radiator inspection and cleaning
Distributor and HT lead check	Road test
Door lock key battery - replacement	Spark plug renewal (SOHC)
Driveshaft gaiter check 7	Spark plug renewal (DOHC)
Engine oil and filter - renewal	Steering and suspension check
Exhaust system check	Throttle linkage maintenance
Fuel filter renewal	Timing belt renewal
Handbrake linkage check	Wiring check
Headlamp alignment	



Degrees of difficulty

Easy, suitable for novice with little experience



Fairly easy, suitable for beginner with some experience



Fairly difficult, suitable for competent DIY mechanic



Difficult, suitable for experienced DIY mechanic



Very difficult, suitable for expert DIY or professional

1.2 Servicing specifications

Torque wrench settings

Automatic transmission drain plug

Lubricants and fluids	Refer to "Weekly Checks"	
Capacities		
Engine oil		
Including filter:		
All engines except DOHC (non-Ecotec)	4.0 litres	
DOHC (non-Ecotec)	4.5 litres	
Quantity of oil required to raise level from "MIN" to "MAX"		
Cooling system (approx.)	7.2 litres	
Transmission		
Manual transmission	1.9 litres	
At fluid change Difference between dipstick MAX and MIN marks - approximate:	3.0 to 3.5 litres	
+ 20°C side + 80°C side	0.25 litre 0.40 litre	
Power steering fluid (approx.)	1.0 litre (approx.)	
Fuel tank (approx.)	63.0 litres	
Washer fluid		
Without headlamp washers	2.6 litres	
With headlamp washers	4.5 litres	
Engine		
Oil filter	Champion G102	
Cooling system		
Antifreeze mixture:		
28% antifreeze	Protection down to -15°C	
50% antifreeze	Protection down to -30°C	
Note: Refer to antifreeze manufacturer for latest recommendations.		
Fuel system		
Note: Idle speed adjustment is not possible on some models, shown for	information only. For further	details refer to Chapter 4A.
Idle speed:	The second secon	AND THE COURT OF STREET STREET
SOHC engine	800 ± 80 rpm	
DOHC engine:	0.40	
Non-Ecotec	940 ± 80 rpm 850 ± 160 rpm	
Idle mixture CO content	0.3 % (at 2800 to 3200 rpm	1)
Air filter element	Champion U554	
Fuel filter	Champion L201	
Ignition system		
Ignition timing	Refer to Chapter 5	
Spark plugs:	Heler to Chapter 5	
SOHC engine	Type	Electrode gap*
Up to 1995	Champion RN9YCC	0.8 mm
1996-on	Champion RC10DMC	Not adjustable
DOHC engine:	01 1 0001100	2.2
Non-Ecotec engine	Champion RC9MCC Champion RC10DMC	0.8 mm Not adjustable
* Information on spark plug types and electrode gaps is as recommended	d by Champion Spark Plug M	Where alternative types are used, refer to the
manufacturer's recommendations	a by british open rag. I	where alternative types are used, relei to the
Brakes		
Minimum pad friction material thickness (including backing plate)	7.0 mm	
Minimum shoe friction material thickness (including backing plate)	0.5 mm above rivet heads	
Tyres		
Pressures	Con "Monkly -ht-"	
Figooulgo	See "Weekly checks"	

Nm

lbf ft

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41 81 18 The maintenance intervals in this manual are provided with the assumption that you, not the dealer, will be carrying out the work. These are the minimum maintenance intervals recommended by the manufacturer for vehicles driven daily. If you wish to keep your vehicle in peak condition at all times, you may wish to perform some of these procedures more often. We encourage frequent maintenance, because it enhances the efficiency, performance and resale value of your vehicle.

If the vehicle is driven in dusty areas, used to tow a trailer, or driven frequently at slow speeds (idling in traffic) or on short journeys, more frequent maintenance intervals are recommended. Vauxhall recommend that the service intervals are halved for vehicles that are used under these conditions.

When the vehicle is new, it should be serviced by a factory-authorised dealer service department, to preserve the factory warranty.

Maintenance is essential for ensuring safety and for getting the best in terms of performance and economy from your vehicle. Over the years, the need for periodic lubrication - oiling, greasing, and so on - has been drastically reduced, if not eliminated. This has unfortunately tended to lead some

owners to think that because no action is required, components either no longer exist, or will last for ever. This is certainly not the case; it is essential to carry out regular visual examination comprehensively to spot any possible defects at an early stage before they develop into major expensive repairs.

The following service schedules are a list of the maintenance requirements, and the intervals at which they should be carried out, as recommended by the manufacturers. Where applicable, these procedures are covered in greater detail near the beginning of each relevant Chapter.

Every 250 miles (400 km) or weekly Refer to "Weekly checks"
Basic service, every 9000 miles (15 000 km) or 12 months - whichever comes sooner Along with the items in "Weekly checks", carry out the following: Renew the engine oil and oil filter (Section 3). Renew the pollen filter (Section 4). Check all hoses and other components for fluid leaks (Section 5). Check the steering and suspension components (Section 6).
 □ Check the condition of the driveshaft rubber gaiters (Section 7). □ Check the automatic transmission fluid level (if applicable) (Section 8). □ Check the radiator for blockage (e.g. dead insects) and clean as necessary (Section 9). □ Check the idle speed and mixture (Section 10). □ Check the throttle linkage and lubricate if necessary (Section 11). □ Check the exhaust system for corrosion, leaks and security (Section 12). □ Check all wiring for condition and security (Section 13). □ Check and adjust the ignition timing (if applicable)
(Section 14). Renew the brake fluid (Section 15). Check the brake pad friction material for wear (Section 16). Check the handbrake linkage (Section 17). Check the power steering fluid level (Section 18). Check the power steering pump drivebelt (if applicable) (Section 19). Check the bodywork (Section 20). Lubricate all locks and hinges (Section 21). Check the alternator V-belt (Section 22). Check the headlamp alignment (Section 23). Replace battery in the door lock key (if applicable) (Section 24).

Carry out a road test (Section 25).

Note: Vauxhall specify that an Exhaust Emissions Test should be carried out at least annually. However, this requires special equipment, and is performed as part of the MOT test (refer to the end of the manual).

Full service, every 18 000 miles
(30 000 km) or 24 months -
whichever comes sooner
Along with the "basic service", carry out the following: Renew the coolant (Section 26).
Renew the air cleaner element (Section 27).
Renew the fuel filter (Section 28).
 Renew the spark plugs (SOHC only) (Section 29). Inspect and clean the distributor cap and HT leads (Section 30).
☐ Check the clutch cable adjustment (Section 31).
Check the manual transmission fluid level (Section 32).
Check the automatic transmission (Section 33).
Check the brake shoes for wear (Section 34).

Major service, every 36 000 miles (60 000 km) or 48 months - whichever comes sooner

Along with the "full service", carry out the following:

Renew the timing belt (Section 35).

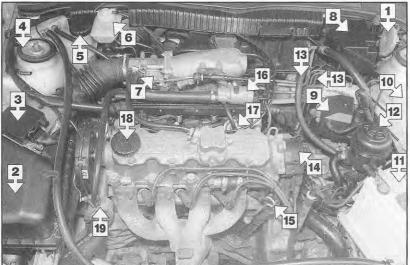
Renew the spark plugs (DOHC models only) (Section 36).

Renew the automatic transmission fluid (Section 37)*.

* Note: If a vehicle is used for heavy-duty work (e.g. taxi work, caravan/trailer towing, mostly short-distance, stop-start city driving) the fluid must be changed every 36 months or 27 000 miles (45 000 km), whichever occurs first.

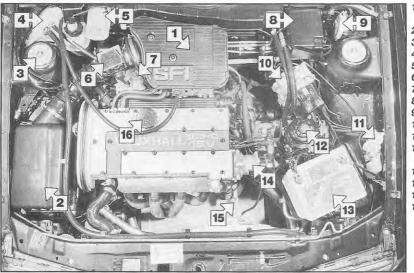
1-4 Maintenance - component location

Underbonnet view of a SOHC engine with Motronic M1.5



- Anti-theft alarm horn
- Air cleaner casing
- Airflow meter
- Suspension strut top
- Coolant expansion tank
- Brake fluid reservoir
- Throttle body
- Relay box
- ABS control unit
- 10 Washer fluid reservoir
- 11 Battery
- 12 Power steering fluid reservoir
- 13 Power steering fluid hoses
- 14 Distributor cap
- 15 Engine oil level dipstick
- 16 Idle speed adjuster
- 17 Fuel pressure regulator
- 18 Oil filler cap
- 19 Thermostat housing

Underbonnet view of an early DOHC (non-Ecotec) engine with Motronic M2.5



- Pre-volume chamber to throttle
- Air cleaner casing
- Suspension strut top
- Coolant expansion tank
- Brake fluid reservoir
- Air mass meter (hot wire)
- 7 Fuel pressure regulator
- 8 Relay box
- 9 Anti-theft alarm horn
- 10 ABS hydraulic modulator
- 11 Washer fluid reservoir
- 12 Power steering fluid
- reservoir
- 13 Battery
- 14 Hall-effect distributor
- 15 Engine oil level dipstick
- 16 Oil filler cap