

Opel Astra 1992-1998 Workshop Manual



Motronic M 1.5.4

1. Control unit.
2. Intake manifold pressure sensor.
3. Tank vent valve.
4. Throttle valve.
5. Idle speed control motor.

6. Octane number plug.
7. Fuel pressure regulator.
8. Injection valves.
9. Dual spark ignition distributor.
10. Intake air temperature sensor.
11. C.O. Potentiometer.
12. Inductive pulse pick-up.

CLEAN

1. All sealing surfaces.
2. Bore holes in cylinder head bolts.
3. Check cylinder block and cylinder head for plane surfaces.

INSTALL, CONNECT

1. Cylinder head sealing — marking "OBSH/TOP" facing upwards steering side of the engine.

INSTALL, CONNECT

1. Mount cylinder head on cylinder block.
2. Adjust hydraulic valve lash adjuster.
3. Secure parts and rocker arm — MoS, screw.
4. Insert camshaft housing — Sealing Compound Loctite 242.

NOTE:

1. Use new cylinder head bolts.
2. Screw in bolts until they rest on cones.

TORQUE — ANGLE METHOD

1. Cylinder head to cylinder block.
2. Tighten cylinder head bolts from inside outwards, in four stages in a spiral pattern — torque wrench and KM-470-B.

Engine	Torque	Further turn angle
1.4 / 1.6 L ₄	22 Nm	60° + 60° + 30°
1.8 / 2.0 L ₄	25 Nm	60° + 60° + 60°

*After test run, turn a further 30° + 15°



Fig. 80

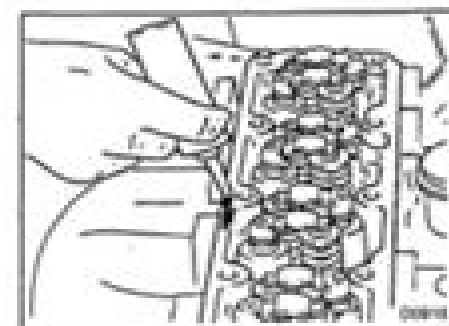


Fig. 81



Fig. 82

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CH Cherryholmes

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the 'CH Cherryholmes' text.

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Vauxhall/Opel Astra Diesel (04-07) John S. Mead,2008 Hatchback Sport Hatch Estate with turbo diesel engines inc special limited editions Does NOT cover TwinTop models or Easytronic transmission Diesel 1 3 litre 1248cc 1 7 litre 1686cc 1 9 litre 1910cc **Libros españoles en venta, ISBN** ,1999 **Libros españoles en venta** ,1999 *Vauxhall Opel/Astra* John S. Mead,2013 This title covers Vauxhauull Opel Astra hatchback and estate models 1 4 and 1 6 litre petrol engines and 1 3 1 7 and 2 0 litre diesel engines *Vauxhall/Opel Astra and Zafira Owner's Workshop Manual* ,2015-08 *Vauxhall/Opel Astra and Zafira Petrol Service and Repair Manual* ,2014-07 Covering all aspects of maintenance repair and routine servicing tasks this guide to the Vauxhall Opel Astra and Zafira features technical information and specifications for petrol cars built between 1998 and 2004

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 a 45° 45° 90° triangle you can use the trigonometric ratios or the special right triangle ratios trigonometric ratios begin array
 $\tan 45^\circ = \frac{b}{a}$ $\sin 45^\circ = \frac{b}{c}$

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