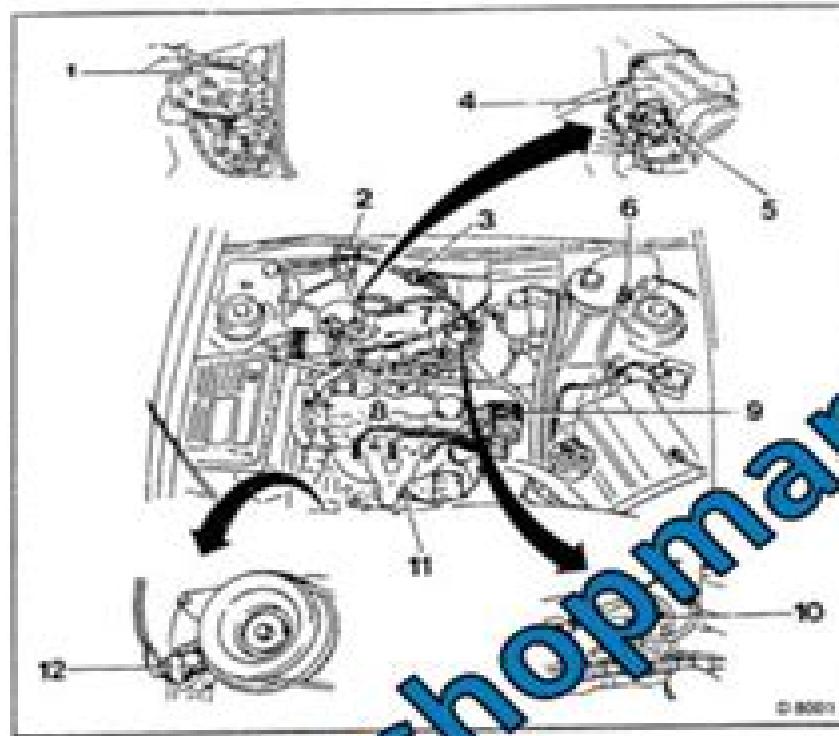


# Opel Astra 1992-1998 Workshop Manual



## Motronic M 1.5.4

1. Control unit.
2. Intake manifold gasket.
3. Throttle valve.
4. Dual spark ignition distributor.
5. Fuel pressure regulator.
6. Octane number plug.
7. Injection valves.
8. Idle speed motor.
9. Intake air temperature sensor.
10. Inductive pulse pick-up.
11. C.O. Potentiometer.
12. Intake air temperature sensor.

### 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 — mounting "OBBENTOP" facing upwards mounting side of the engine.

### INSTALL, CONNECT

1. Cylinder head on cylinder block.
2. Hydraulic valve train assembly.
3. Camshaft and rocker arm — Moly Paste.
4. Insert camshaft housing — Bearing Compound Lockers 242.

### NOTE:

1. Use new cylinder head bolts.
2. Screw in bolts until they meet on cover.

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Fig. 80

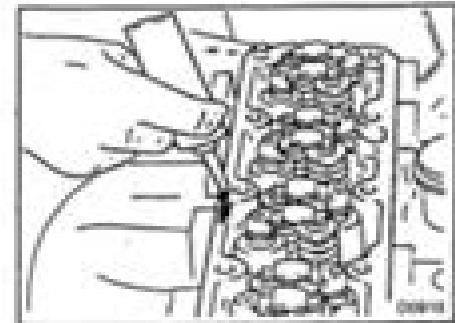


Fig. 81

### 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 KSM 479/8.  
Engine: Torque: Fitted from angle  
1.4 l 1.6 l: 25 Nm: 40° + 60° + 90° + 120°  
1.6 l 2.0 l: 28 Nm: 40° + 60° + 90° + 120°  
\*After head has been a further 30° + 10°

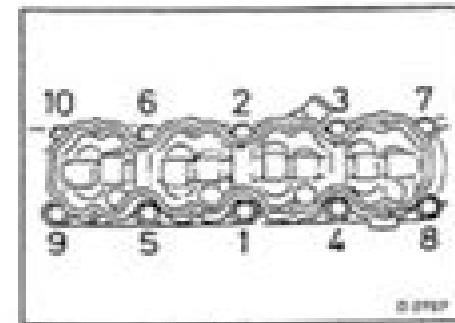


Fig. 82

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**Lei Huang**

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