

## Opel Astra G 1.6 (1598ccm) 2000-2005

### Service Repair Manual

|                                    |                                                                      |
|------------------------------------|----------------------------------------------------------------------|
| Year                               | 2000-2005                                                            |
| Engine code                        | Z16SE                                                                |
| Engine size                        | 1598ccm                                                              |
| Power                              | 62kw                                                                 |
| Idle speed                         | 710-930rpm                                                           |
| Compression                        | 13.0-15.0bar                                                         |
| Fuel system                        | Multec S                                                             |
| Firing order                       | 1-3-4-2                                                              |
| Spark plug                         | Bosch FRL8LDCU                                                       |
| Electrode gap                      | 0.9-1.1mm                                                            |
| CO                                 | 0.5%                                                                 |
| CO2                                | 14.5-16%                                                             |
| HC                                 | 100ppm                                                               |
| O2                                 | 0.1-0.5%                                                             |
| CO content at increased idle speed | 0.3%                                                                 |
| Increased idle speed for CO test   | 2800-3200rpm                                                         |
| Lambda                             | 0.97-1.03                                                            |
| Thermostat opens                   | 92°C                                                                 |
| Battery                            | 44Ah                                                                 |
| Alternator                         | 70A                                                                  |
| Cylinder head tightening torque 1  | 25Nm                                                                 |
| Cylinder head tightening torque 2  | 85°                                                                  |
| Cylinder head tightening torque 3  | 85°                                                                  |
| Cylinder head tightening torque 4  | 20°                                                                  |
| Spark plug Tightening torque       | 25Nm                                                                 |
| Engine oil with filter             | 3.5l                                                                 |
| Cooling system                     | 5.9/6.2l                                                             |
| Gearbox oil                        | 1.6l                                                                 |
| Automatic transmission fluid       | 4.0l                                                                 |
| Engine oil grade                   | ACEA A3-98 SAE 0W-30<br>ACEA A3-98 SAE 0W-40<br>ACEA A3-98 SAE 0W-50 |
| Gearbox oil grade                  | Opel Nr. 1940768                                                     |
| Automatic transmission fluid type  | Opel Nr. 1940767                                                     |
| Brake fluid                        | DOT4                                                                 |
| Timing belt                        | 120000km                                                             |

# Vauxhall Opel Z16se Service Manual

**Mark Coombs, Spencer Drayton**



## **Vauxhall Opel Z16se Service Manual:**

**Vauxhall Opel Astra Petrol Service & Repair Manual** John S. Mead,2008 This is one in a series of manuals for car or motorcycle owners Each book provides information on routine maintenance and servicing with tasks described and photographed in a step by step sequence so that even a novice can do the work **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 **Vauxhall Astra and Zafira (petrol)** A. K. Legg,Martynn Randall,2001 **Vauxhall/Opel Corsa Service and Repair Manual** A. K. Legg,Peter T. Gill,2004 Hatchback Corsavan Combo Van inc special limited editions Does NOT cover facelifted range from Oct 2003 Petrol 1 0 litre 973cc 3 cyl 1 2 litre 1199cc 1 4 litre 1389cc 4 cyl Does NOT cover 1 8 litre 1796cc Turbo Diesel 1 7 litre 1686cc Vauxhall/Opel Omega Service and Repair Manual Mark Coombs,Spencer Drayton,1999 Saloon Estate inc special limited editions Does NOT cover bi fuel models Petrol 2 0 litre 1998cc 4 cyl 2 5 litre 2498cc 3 0 litre 2962cc V6

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all of the above apply to an enzyme 2 when

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