

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, measure parts and rocker arm — MoS, check.
3. 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 90°-470-B.

Engine	Torque	Further turn angle
1.4 / 1.6 L ₄	22 Nm	90° + 90° + 90°
1.8 / 2.0 L ₄	25 Nm	90° + 90° + 90°

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



Fig. 80



Fig. 81



Fig. 82

Opel Astra F Brake Manual

Russell Hayes



Opel Astra F Brake Manual:

Reducing Braking Distance by Control of Semi-Active Suspension Tobias Niemz, 2014-04-11 Inhaltsangabe

Abstract This thesis presents a control algorithm for semi active suspensions to reduce the braking distance of passenger cars Active shock absorbers are controlled and used to influence the vertical dynamics during ABS controlled full braking In today s series cars the active shock absorbers are switched to a passive damping usually hard damping during ABS braking Several approaches to reduce oscillations of vertical dynamic tire forces are known implemented and some of them tested in non braking situations refer to Yi Val ek and Nouillant The approach presented in this paper goes a step further by connecting the vertical with the longitudinal dynamics To influence the vertical dynamics a switching control logic called MiniMax controller is used It is named after the fact that it changes only from soft to hard damping and vice versa A control quantity was identified that connects the vertical dynamics with the longitudinal dynamics the integral of dynamic wheel load The control algorithm is implemented in a compact class passenger car Simulations with a quarter car model have been undertaken as well as tests on a 4 post test rig driving tests with defined excitations like defined obstacles and test drives on a real road using a braking machine for reproducibility reasons It could be shown that it is possible to reduce the braking distance by affecting on the vertical dynamics of a passenger car in general The amount of reduction depends on the elevation profile of the chosen testing track and on the initial velocity On a road with an unevenness comparable to the one that is found on a typical German Autobahn a reduction of typically 1 2% compared to the best passive damping was achieved

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Egypt Today ,2009

Automotive Engineering International ,2005 *Autocar & Motor* ,1992-07 **The Complete Book of Volkswagen**

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Autocar ,2005 Lemon-Aid Used Cars and Trucks 2011-2012 Phil Edmonston,2011-04-25 As Toyota skids into an ocean of problems and uncertainty continues in the U S automotive industry Lemon Aid Used Cars and Trucks 20112012 shows buyers how to pick the cheapest and most reliable vehicles from the past 30 years Lemon Aid guides are unlike any other car and truck books on the market Phil Edmonston Canada s automotive Dr Phil for 40 years pulls no punches Like five books in one Lemon Aid Used Cars and Trucks is an expos of car scams and gas consumption lies a do it yourself service manual an independent guide that covers beaters lemons and collectibles an archive of secret service bulletins granting free repairs and a legal primer that even lawyers cant beat Phil delivers the goods on free fixes for Chrysler Ford and GM engine transmission brake and paint defects lets you know about Corvette and Mustang tops that fly off gives the lowdown on Honda Hyundai and Toyota engines and transmissions and provides the latest information on computer module glitches **The Autocar** ,1988 *Country Life Illustrated* ,1981-08 Design News ,2002 *Motor Cycling and Motoring* ,1986

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Transportation Systems 1997 (TS '97) Markos Papageorgiou,A. D. Pouliezios,1997 **Braby's East London Directory and Buyer's Guide** ,1987 **Road & Track** ,1984-02 Focus On: 100 Most Popular Sedans Wikipedia contributors,

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