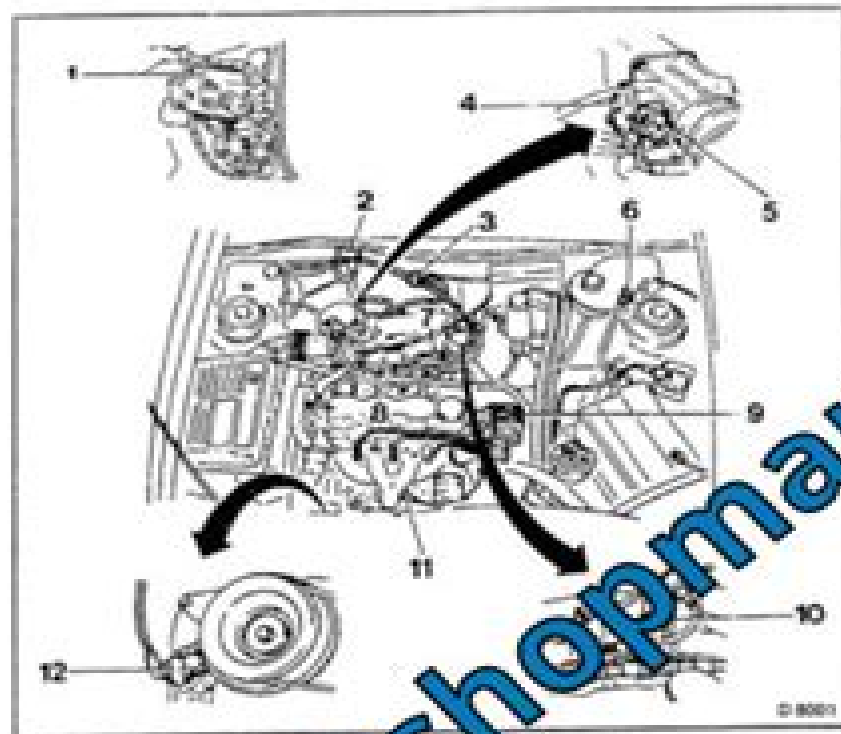


Opel Astra 1992-1998 Workshop Manual



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. Install 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° + 90°
1.8 / 2.0 L ₄	25 Nm	60° + 60° + 90°

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



Fig. 80



Fig. 81



Fig. 82

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Opel Astra F Brake Manual

Rachel S Tattersall



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

Inhaltsverzeichnis Table of Contents List of Abbreviationsix List of Symbols and Indicesx Abstractxv 1 Introduction1 1 1Classification of Suspension Systems1 1 2State of the Art3 1 3Research Objectives11 1 4Methodology12 2 Fundamentals of Vehicle Dynamics14 2 1Coordinate Systems14 2 2The Braking Process16 2 2 1The Quality of a Braking Process23 2 2 2Parameters that Influence the Braking Distance24 2 3Possibilities to Influence the Braking Force26 2 3 1Influence via Braking Torque ABS30 2 3 2Influence via Wheel Load Active Shock Absorbers34 2 4Conclusions35 3 Tools and Research Environment36 3 1Active Shock Absorbers36 3 2Testing Vehicle38 3 2 1Testing Vehicle

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 - Advantages of eBooks Over Traditional Books
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 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
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 - Features to Look for in an Opel Astra F Brake Manual
 - User-Friendly Interface
4. Exploring eBook Recommendations from Opel Astra F Brake Manual
 - Personalized Recommendations

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- Opel Astra F Brake Manual and Bestseller Lists
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 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Opel Astra F Brake Manual
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 - Benefits of a Digital Library
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- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
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 - Setting Reading Goals Opel Astra F Brake Manual
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Opel Astra F Brake Manual
 - Fact-Checking eBook Content of Opel Astra F Brake Manual

- Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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