

BentleyPublishers .com

Bosch Automotive Handbook 9th Edition

Price: \$79.95

Bentley Stock No: H017 Publication Date: 2014-11-21 ISBN: 978-0-8376-1732-9 Hardcover, 5 2/3 in. x 8 1/4 in.

Case quantity: 1 1544 pages

1450 technical illustrations and diagrams

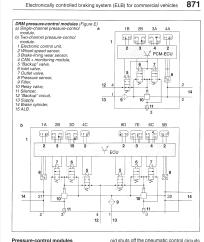
All about automotive engineering in a pocketbook

The first incarnation of the Automotive Handbook was published in 1932 by Robert Bosch GmbH. Since then, the book has increased in size and stature to be considered an indispensable reference source of precise information on the subject of automotive technology. With this ninth English-language edition, the book has been revised and extended throughout into a larger format designed for ease of use by the professional automotive technician.

Contents - central themes (selection)

- Physics, thermodynamics, chemistry, mathematics, materials, operating fluids, machine parts, joining and bonding techniques
- Internal-combustion engines, engine cooling, air-intake systems, turbochargers and superchargers, exhaust-gas system
- Emission-control and diagnosis legislation, exhaust-gas measuring techniques
- Emission-control and diagnosis legislation
- Management for spark-ignition engines, manifold injection, gasoline direct injection, alternative gasoline-engine operation
- Management for diesel engines, common rail, start-assist systems
- Hybrid drives, fuel cell
- Fundamentals of vehicle engineering, motor-vehicle dynamics, vehicle acoustics, vehicle aerodynamics
- Suspension, wheel suspension, wheels, tires, steering, brake systems
- Antilock braking system, driving-dynamics control system
- Vehicle bodies, lighting equipment
- Vehicle electrical systems, starter batteries, drive batteries, electrical machines, alternators
- ECU, automotive networking, buses, architecture of electronic systems, sensors
- Driver-assistance systems, computer vision, Adaptive Cruise Control

K-Jetronic The K-Jetronic system operates without a drive and injects fuel continuously. The interest operates without a drive and injects fuel continuously. The infection of the continuously in the continuously in the continuously. The infection of the continuously in the continuous designation of the continuous



Sample page spreads from the Bosch Automotive

Handbook

interface between the electronic braking system and the pneumatic braking force. They convert the required braking pressures transmitted via the brake CAN to pneumatic pressures. Conversion is carried out by "proportional selentiods" or an intel/outlet solenoid combination. A pressure sensor measures the braking pressure delivered. Thus, braking pressure delivered. Thus, braking pressure can be controlled in a closed control loop. old shuts off the pneumatic control circuits of the FBM in order to permit interference-free electrical pressure control.

Mounting the pressure-control modules close to the wheels means that the electrical wires for connecting the wheels

close to the wheels means that the electrical wires for connecting the wheelspeed sensors and the brake-lining wear sensors can be kept short. The signals are transmitted to the central ECU via the braking-system CAN. This minimizes the amount of winding required on the vehicle substantially.