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GENERAL

This section describes the principal parts of the electrical system. Also covered here are basic electrical system troubleshooting tips.

See also:

- **12V Battery, Starter, Alternator**
- **ECL Electrical Component Locations** for common BMW acronyms as well as component location information
- **ELE Electrical Wiring Diagrams**
- **OBD On-Board Diagnostics**

Electrical overview



The vehicle operates on a 12-volt direct current (DC) negative-ground system. Power is supplied by a lead-acid battery in right side of the trunk or cargo compartment.

A voltage regulator controls system voltage at approximately 12 volts. All circuits are grounded by direct or indirect connection to the negative (-) terminal of the battery.

A number of ground connections throughout the vehicle connect the wiring harness to chassis ground. These circuits are completed by the battery cable or ground strap between the body and the battery negative (-) terminal.

Bmw E60 User Manual

Bernhard Heißing, Metin Ersoy



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BMW M5 James Taylor, 2015-10-26 BMW's M5 was a simple concept a production 5 Series saloon re developed for high performance by the Motorsport division The M5 was the car that really initiated the legend of the M cars from BMW the letter M had been applied to a high performance BMW as early as 1978 but that year's M1 was an exotic supercar It had the right image but the M1 was never going to bring in major profits The M5 was much simpler in concept It was and remains a production 5 Series saloon redeveloped for ultra high performance Manufacturing costs were minimized allowing BMW to price the car more attractively and still bring in healthy profits This new book charts the development of the M5 across five generations For all fans of the BMW M5 this book provides essential background and is packed with the facts and details that make the M5 legend come alive The M5 is still in production and remains the benchmark high performance saloon wherever it is sold This is essential background reading for all BMW M5 fans and motoring enthusiasts and is superbly illustrated with 211 colour photographs

The BMW 5 Series and X5 Marc Cranswick, 2014-01-10 BMW is a company associated with motoring firsts The very idea of a sports sedan was merely a novelty until BMW introduced the 5 series in 1972 As BMW's middle child the 5 series has drawn features from the company's smallest and largest models establishing a reputation for performance and practicality through multiple generations This book covers the history of the 5 series midsize sedan and the related X5 SUV from September 1972 to the e60's major makeover for 2008 and the development of the e70 X5 Specific mechanical electronic and cosmetic changes are described including the time of and reasons for their introduction Several aspects of BMW's corporate history and technically related models such as the 6 series are also described as are aftermarket modifications by Alpina Hartge and other specialist BMW tuners and speed shops The book includes more than 200 photographs

Autocross Performance Handbook Richard Newton, Autocross is open to just about anyone with a helmet and a car Aimed at all those autocross drivers who race the cars they drive every day this thorough and easy to follow handbook covers everything from choosing the best class and car for competing to tuning modifying and racing that car Richard Newton an ASE certified Master Technician talks in a reader friendly fashion about what can be done why it should be done and what might need to be altered when conditions change He discusses the rule book and driving techniques used in autocross events Featuring helpful full color illustrations this guide covers all engine drivetrain combinations and focuses on car subsystems including engine suspension wheels and tires and brakes among others The book includes drawings of course set ups as well as a complete reference appendix

Chassis Handbook Bernhard Heiing, Metin Ersoy, 2010-11-09 In spite of all the assistance offered by electronic control systems the latest generation of passenger car chassis still relies on conventional chassis elements With a view towards driving dynamics this book examines these conventional elements and their interaction with mechatronic systems First it describes the fundamentals and design of the chassis and goes on to examine driving dynamics with a particularly practical focus This is followed by a detailed description and explanation of the

modern components A separate section is devoted to the axles and processes for axle development With its revised illustrations and several updates in the text and list of references this new edition already includes a number of improvements over the first edition

BMW 3-Series 50 Years Tony Lewin,2025-11-04 Trace the 50 year success story of BMW's 3 Series in this luxuriously produced and stunningly illustrated volume From its launch in 1975 with the 316 the 3 Series has moved from strength to strength defining what it means to be a performance sedan coupe wagon Beloved by enthusiasts worldwide it is the series benchmarked by all other manufacturers Whether daily driven tracked or raced BMW's 3 Series delivers the goods BMW 3 Series 50 Years charts the 3 Series design and technical evolution from the 1970s to today from the clean classic two box design of the E21 and E30 to the handsome E46 to today's sophisticated G20 The book features A detailed history of the BMW 3 Series by automotive historian and industry analyst Tony Lewin First person interviews with key designers and engineers Photography from BMW's archive as well as commissioned contemporary photography Sidebars diving into interesting stories covering design related models like the Z cars and the collector perspective The 3 Series is a performance and competition story as well with no car more storied or critical to BMW's reputation than its vaunted M3 Racing and M3s play out across the book's chapters providing a performance perspective across the 3 Series 50 years With decades of showroom performance and competition success BMW's 3 Series in all its permutations shows no signs of slowing down BMW 3 Series 50 Years details the full story in a lively volume deserving space in every enthusiast's collection

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The BMW Century Tony Lewin,Tom Purves,2016-09-30 Relive the first one hundred years of Germany's best two and four wheeled rides Established in 1916 BMW is one of the auto and motorcycle industry's oldest and most respected car and motorcycle manufacturers Over the past century the company went through myriad developments The BMW Century chronicles this remarkable transportation company through images of the cars and motorcycles it manufactured from the 1923 R32 motorcycle to sleek electric cars of today This handsome volume is filled with images history and in depth looks at the incredible machines BMW created year after year The BMW Century showcases how the company's new visionary team systematically rebuilt BMW in the post World War II years into the spectacular success we know today that is a company with sales projected to be upwards of two million cars annually by 2016 led by its 3 series the best selling luxury performance car in the world BMW's motorcycle division is no less legendary It began with the 1923 avant garde R32 which featured a 180 degree horizontally opposed twin the engine configuration that would become BMW's

hallmark Along the way BMW would use that configuration to power groundbreaking machines like the R90S R100RS and R80GS Beginning in 1983 they would add three and four cylinder machines to their offerings culminating in today's spectacular S1000RR sport bike From the pre war motorcycles to the iconic R series twins of the 1970s and 80s to the mighty M series cars and superbikes of today The BMW Century offers a full review of German engineering at its finest The book is illustrated with hundreds of historic contemporary and racing photographs many sourced from BMW's archives and detailed text relating the BMW's full history This is the one volume no BMW aficionado can be without

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