

6 SYSTEMATIC TROUBLESHOOTING

TROUBLESHOOTING PROCEDURE

1. Verify the Problem

Operate the problem circuit to check the accuracy of the complaint. Note the symptoms of the inoperative circuit.

2. Analyze the Problem

Refer to the schematic of the problem circuit in the ETM. Determine how the circuit is supposed to work by tracing the current path(s) from the power feed through the circuit components to ground. Then based on the symptoms you noted in step 1 and your understanding of circuit operation, identify one or more possible causes of the problem.

3. Isolate the Problem

Make circuit tests to prove or disprove the preliminary diagnosis made in step 2. Keep in mind that a logical simple procedure is the key to efficient troubleshooting. Test for the most likely cause of failure first. Try to make tests at points which are easily accessible.

4. Repair the Problem

Once the specific problem is identified, make the repair using the proper tools and safe procedures.

5. Check the Problem

Operate the circuit to check for satisfactory circuit operation. Good repair practice calls for rechecking all circuits you have worked on.

TROUBLESHOOTING TOOLS

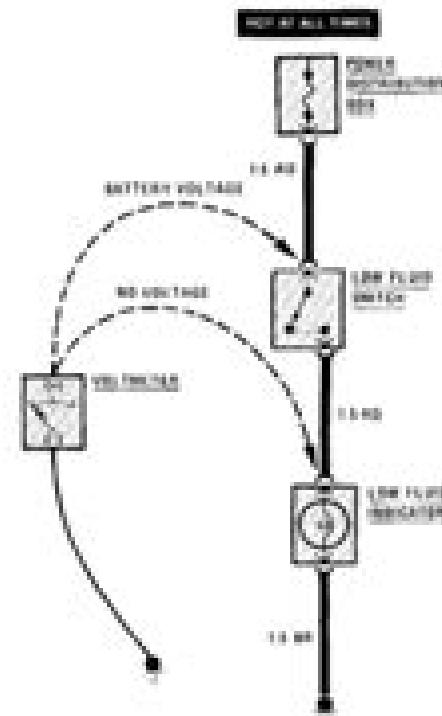
Isolating the problem (Step 3 of TROUBLESHOOTING PROCEDURES) requires the use of a voltmeter and/or ohmmeter. A voltmeter measures voltage at selected points in a circuit. An ohmmeter measures a circuit's resistance to current flow. It has an internal battery that provides current to the circuit under test. Disconnect the car battery when using an ohmmeter because the battery voltage will cause the ohmmeter to give false readings. Also, do not use an ohmmeter on solid-state components. The voltage that the ohmmeter applies to the circuit could damage these components.

TROUBLESHOOTING TESTS

Voltage Test

This test measures voltage in a circuit. By taking measurements at several points (terminals or connectors) along the circuit, you can isolate the problem.

To take a voltage measurement, connect the negative lead of the voltmeter to the battery's negative terminal or other known good ground. Then connect the positive lead of the voltmeter to the point you want to test. The voltmeter will measure the voltage present at that point in the circuit.



Voltage Test

Bmw Electrical Troubleshooting Manual E24

Hussin A.Rothana

Bmw Electrical Troubleshooting Manual E24:

BMW 5 & 6 Series E12 - E24 - E28 -E34 Restoration Tips and Techniques Andrew Everett,2012-10-14 A wealth of restoration tips and techniques covering E12 E24 E28 E34 5 and 6 Series BMWs built between 1972 and 1995 Covers all models from 518 to M6 Advice is given on acquiring a good BMW 5 6 Series model plus tips on restoring engines bodywork trim electrics suspension much more If you have a car like this then you can save thousands as you bring it back up to specification for your safety or as a restoration project this is the book you need It is now 40 years since the first BMW 5 Series went down the production lines at Dingolfing Back in 1972 only the BMW executives with the greatest of foresight could have predicted that in 2012 the 5 Series would still be in production and still be the class leader and it's amusing to note that the latest model the F10 520i is also a two litre four cylinder just as those first Fives were BMW occupies a unique position in the hearts of car buyers and enthusiasts for no other marque of car has such a wide fan base From what are probably the finest range of cars in the world to an enjoyable secondhand car through to concours events track days to drifting championships plus huge clubs and countless forums no other manufacturer has such a huge and diverse following as BMW The large numbers of the first three generations of the 5 Series that still survive attest to that and this book is aimed at owners wanting to know more and pick up some useful maintenance repair and restoration tips *BMW Buyer's Guide*

Fred Larimer,2002 **BMW Classic Coupes, 1965 - 1989** James Taylor,2014-11-30 A definitive guide to BMW's high performance classic coupes tracking their rising success from 1965 to 1989 After the doldrums of the post war years BMW had felt the need for a flagship grand touring coupe The 507 of the late 1950s and the 3200 CS that replaced it in the early 1960s may not have made much money for the company but they were a reminder of its aspirations Then in 1964 a striking new coupe emerged from the building blocks of the latest saloon car range The 2000 and 2000 CS with their feisty 2 litre 4 cylinder engines were the affordable foundation on which BMW was able to build its next generation of coupes and what formidable machines those were This definitive guide covers BMW's high performance classic coupes tracking their rising success from 1965 to 1989 and includes full specification guides production histories and original photography Topics covered include BMW's hand built coupes of the 1950s and the first volume built models the mainstream E9 range with new engines and revised front end styling racing success for the Batmobile CSLs including six wins at the European Touring Car Championship from 1973 to 1979 engineering and development of the luxury E24 range tuned and modified coupes including the rare custom convertibles Fully illustrated with 234 colour photographs *BMW 3-Series ,199? Mercedes R107: The Essential Guide to Buying, Owning, and Restoring the Classic SL (350SL 450SL 380SL 560SL)* Steve

Sorensen,2025-11-22 The R107 SL is not a used car It is a financial IQ test To the uninitiated a 15 000 Mercedes Benz SL looks like a bargain To the expert it looks like a grenade with the pin pulled The Mercedes Benz R107 1971 1989 is the last of the Cost No Object Artifacts vehicles engineered by geniuses and built like bank vaults But after 40 years the line between a

rising investment and a Financial Abyss is razor thin Whether you are hunting for your first 560SL or trying to save the 450SL in your garage this book is not a brochure It is a forensic survival guide designed to save you thousands of dollars in tuition Inside you will learn to navigate The Trap and master the machine The Walk Away Inspection How to spot the Plenum Chamber Rot and Subframe Cracks that turn a classic car into scrap metal The Time Bombs Identify the Single Row Timing Chain 380SL and the Evil Servo Climate Control before they detonate your bank account The NLA Terror How to survive the No Longer Available parts crisis and source the specific rubber switches and relays that keep these cars alive Artifact vs Appliance Why a Pool Noodle repair ruins value and how to restore your interior roof and fuel system to factory integrity For the Buyer Do not sign the check until you pass the Water Torture Test For the Owner Stop throwing money at Appliance repairs Learn to curate the Artifact The R107 is a legend But it demands tribute Read this book Buy the right car Save the Artifact 1987 BMW 3 Series Electrical Troubleshooting Manual ,1987 **BMW 5-Series 1986** ,1986 Autocar ,1995

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