

Service-Information Motorcycle



BMW NA
Service Department

Group: 12
Engine
Electric

November 1993
12 019 93
(2611)
Page 1 of 2

For USA Only

R Model Charging Systems Revised 11.17.93

Affected Models: All Boxer Models from 1980 except R 1100 Models

Complaint: Diode ground wires getting hot, stiff, solder melting, melted insulation, alternator output falls below 13.2 Volts.

Cause: Increased resistance at the diode ground points due to corrosion of ground wires and bolts.

Additional Causes: More accessories than the system can support, full fairings, circuit resistance, hot weather riding, city riding, low battery voltage.

Information: Voltage drops can be minimized by suitable connector cross section and good connections where resistance remains low even after a long period of operation.

Remedy: Install additional ground wire PN 12 31 1 468 013. See page two for instructions.

This wire has four connecting points - which tie the diode board, timing case cover, and the engine housing together.

The wire is copper and each strand is tined for greater resistance to corrosion.

Reduced circuit resistance means reduced heat in the wire and increased efficiency.

BMW of North America, Inc.

Joe Wagner
National Service Manager
Motorcycle Group

Dan Browning
National Technical/Training Manager
Motorcycle Group

DB:db
DB/SI2611

Please initial and route to the following before filing				
Service	Parts	Sales	Warranty	Technicians

Revised 11.17.93

Parts Needed:

Ground Wire	PN 12 31 1 468 013	Qty	1	(order 1 get 10 prepackaged)
Hex Bolt	PN 07 11 9 914 148	Qty	1	M6 X10
Allen bolt	PN 07 11 9 919 792	Qty	1	M6 X 10
Washer	PN 07 11 9 931 029	Qty	2	5.5M flat
Cap	PN 46 62 1 453 668	Qty	1	M6 Cap

Install the wire as in fig #1 - use the allen bolt (792) at A, the hex bolt (148) at B, and the cap (668) onto the hex bolt. Install the washers onto the two lower diode board rubber mounts to act as spacers. Place wire C & D onto the top diode board mounting rubbers along with the original ground wires.

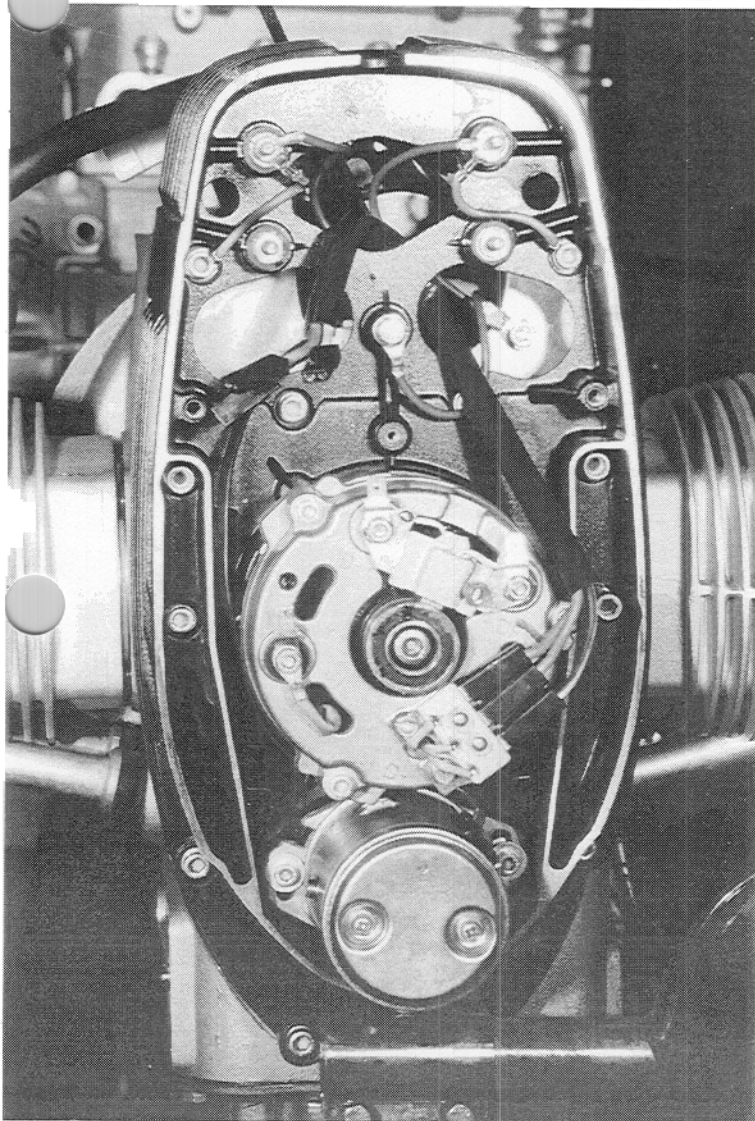


Fig # 1

