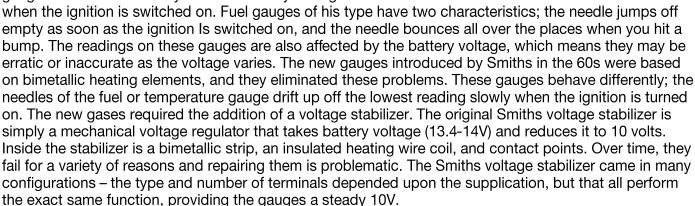


# VOLTAGE STABILIZER MGB, MG AUSTIN HEALEY & SPRITE

Part Number: BHA4602P



Many British cars produced through the mid-1960s have moving-iron gauges that are fed directly from the battery through a wire that is live



### **ABOUT THE VOLTAGE STABILIZER**

The supply of genuine smiths' stabilizers has dwindled to a few part numbers. The ones we have carried in recent years have varied considerably, even when ordered from the same source under the same number, they have had a variety of terminal combinations, which is confusing, and the reliability of some has been suspect.

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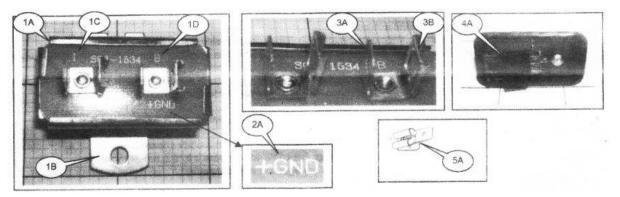












Reproducing all the original stabilizers would be cost prohibitive, so it was set out to reproduce a stabilizer that would meet the needs of all the various applications. It was also decided to go to solid state components to improve the quality and simplify the construction, which kept the cost down. The case (1A) is a clone of the housing used on the late Smiths' stabilizers. It is grounded to the chassis through the mounting bracket (1B). the instrument terminals are indicated by an "I" (1C) and the power in or battery terminals are indicated by a "B" (1D) just as they always have been. We provide one male spade (3A) and one female spade connector (3B) for both terminals to make it easy to hook up on the original wiring connectors. We include two "piggyback" connectors (5A) which can be placed on one or both male spade terminals on the stabilizer (3A), giving you more places to connect wires with female spade connectors, something triumph owners will appreciate. The solid state components are polarity sensitive and therefore have a positive ground and a negative ground version of the stabilizer. The polarity o the unit is clearly indicated (2A) and it must be strictly observed.

## Before you do any testing:

- Locate the stabilizer. Consult your workshop manual for the location.
- Remove the wires from the stabilizer, marking them clearly so you can connect them correctly later.
- Remove the stabilizer and clean all the electrical connections, including the ground connection- the points of contact between the mounting tab and the body sheet metal.
- Reinstall the stabilizer, connect the wires
- Using a voltmeter, measure the voltage at the battery (this is the battery voltage referred to below).

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# WITH 1/2 TANK, GAUGE READS HIGH

- Remove the wire(s) from the "I" terminal.
- Connect a voltmeter between the "I" terminal and a good clean ground on the chassis.
- Turn on the ignition.

If the voltmeter shows.

- a) the same voltage as you measured in step 1.
- b) It remains there for 20-30 seconds without changing. it is probable that the points inside the stabilizer are not opening and you should replace it.

# WITH 1/2 TANK, GAUGE READS LOW

Rule out a problem with the sending unit first,

- Make sure the wire(s) are properly connected to the sending unit.
- Verify that there is adequate fuel in the tank.
- Disconnect the wire on the sounding unit that goes to the gauge (usually green-black).
- Switch on the ignition and oberve the volt meter reading and compare it to the battery voltage.
- If the voltage at the "B" wire is less than battery voltage, the wire connected to "B" is damaged or broken and that must be found and corrected.

# WITH 1/2 TANK, GAUGE READS EMPTY

- Remove the wires from the stabilizer, marking them clearly so you can connect them correctly later.
- Locate the wires that were connected to the "B" terminal.
- Connect a voltmeter between the "B" wires and a clean ground on the body sheet metal
- Switch on the ignition and observe the voltmeter reading and compare it to the battery voltage.
- If the voltage at the "B" wire is less than battery voltage, the wire connected to "B" is damaged or broken, that must be found and connected.
- If the voltage at the "B" wire is the same as battery voltage, switch off the ignition.
- Measure the resistance of each of the "1" terminal wires from end to end. Resistance over a few Ohms indicates a problem in the wire that must be corrected.

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- If no problems are found with the wires and the gauge still reads empty, reconnect the voltage stabilizer.
- Perform the "Gauge Reads Low" series of tests listed above.

### **INSTALLATION TIPS**

- Verify that the polarity of the stabilizer you have matches to polarity of the vehicle.
- Locate the original stabilizer. Consult your workshop manual for the location if necessary.
- Remove the wires from the stabilizer, marking them "B" and "I" so you can connect them correctly later. Clean the electrical connectors on the wires.
- Remove the original stabilizer and clean the ground connection on the body sheet metal.
- install the new stabilizer in the original location and secure it with the original screw and washer.
- Connect the wires marked "B" to the "B" terminal. Connect the wires marked "I" to the "terminal.

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