

**varian**   
*vacuum products*

# ***MultiGauge Kit***

**Model 929-3080**

*INSTRUCTION MANUAL*

87-900-075-01  
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**GENERAL INFORMATION**

This equipment is destined for use by professionals. The user should read this instruction manual and any other additional information supplied by Varian before operating the equipment. Varian will not be held responsible for any events occurring due to non-compliance, even partial, with these instructions, improper use by untrained persons, non-authorized interference with the equipment or any action contrary to that provided for by specific national standards.

**This manual uses the following standard protocol:**

 **WARNING**

The warning messages are for attracting the attention of the operator to a particular procedure or practice which, if not followed correctly, could lead to serious injury.

 **CAUTION**

The caution messages are displayed before procedures which, if not followed, could cause damage to the equipment.

**NOTE**

*The notes contain important information taken from the text.*

**KIT DESCRIPTION**

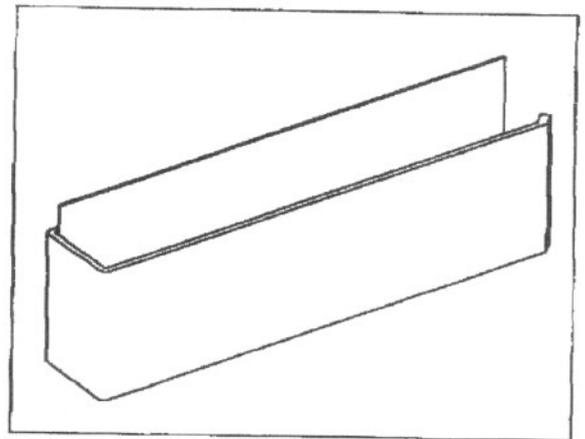
The Multi Gauge Kit (model 929-3080) is composed of the following elements:

- a shield
- a CMOS static RAM
- an EEprom.

The kit is used to upgrade a MultiVac base unit for a Multi Gauge card installation.

The shield is used to protect the Multi Gauge card installed into the MultiVac base unit against the possible contact with another card installed into the system.

The following figure shows the shield.

**PREPARATION FOR INSTALLATION**

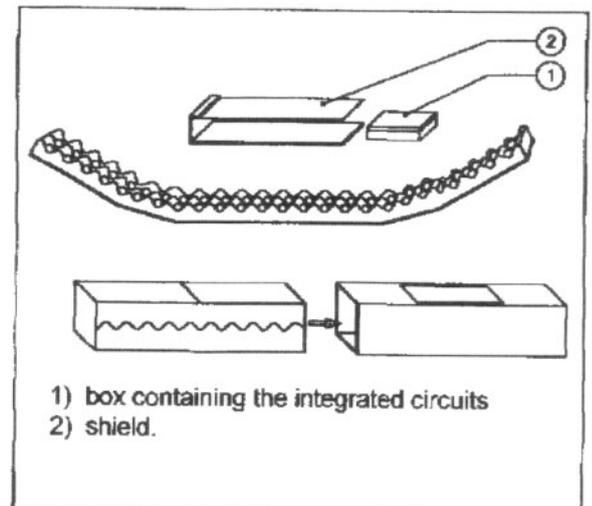
The kit is supplied in a special protective packing. If this shows signs of damage which may have occurred during transport, contact your local sales office.

When unpacking the kit ensure that it is not dropped or subject to any form of impact.

 **CAUTION**

Take care handling the integrated circuit: the static charge accumulated into your body can damage the circuits.

The following figure shows the kit packaging.



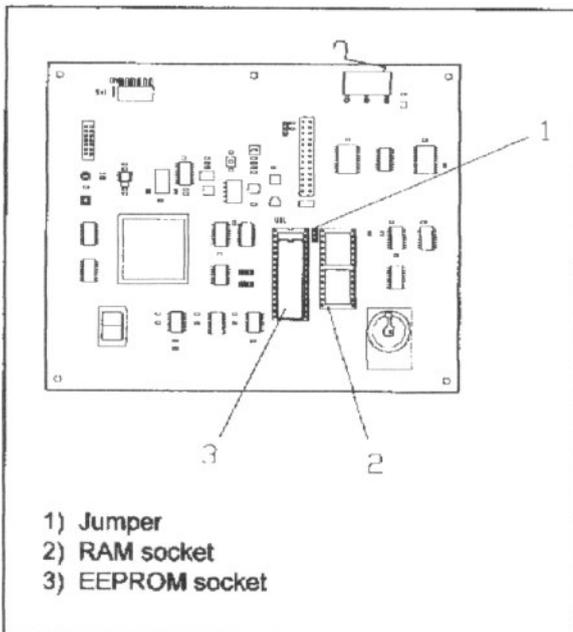
- 1) box containing the integrated circuits
- 2) shield.

## INSTRUCTIONS FOR USE

### INSTALLATION

To install the RAM and the EEPROM proceed as follows:

- 1) Keep access to the MultiVac microprocessor board following the subsequent instructions:
  - Undo the MultiVac front panel side screws;
  - Extract the MultiVac front panel;
  - Undo the five screws holding the microprocessor board.
- 2) On the microprocessor board identify the EPROM socket, the RAM socket and the jumper (see the following figure).

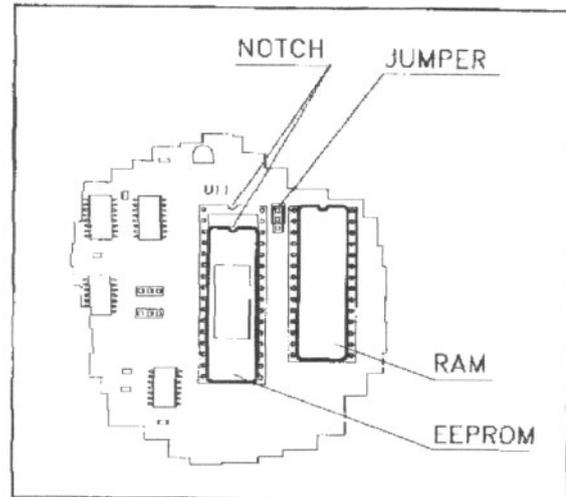


- 3) Remove the existing EPROM.
- 4) Insert the new EEPROM and RAM supplied with the kit into the relevant socket aligning the notches indicating the pin n. 1 position (see the following figure).

### CAUTION

Inserting the integrated circuits take care to insert all the pins into the relevant holes without bending any pin.

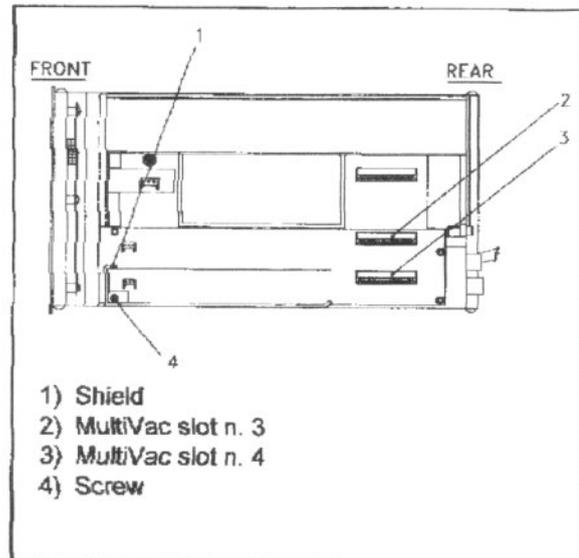
- 5) Move the jumper to connect the two pins in the upper side (see the following figure).



- 6) Replace the microprocessor board into the base unit and reassemble the MultiVac.

To install the shield proceed as follows:

- 1) Remove the upper cover of the MultiVac base unit (see the MultiVac Controller Instruction Manual).
- 2) Remove the screw (4) from the MultiVac board (see the following figure).
- 3) Insert the shield into the slot n. 4
- 4) Reinsert the screw (4).
- 5) Reassemble the MultiVac.



The Multi Gauge card must be installed inside the shield.

**KIT OUTLINE**

The following figure shows the shield outline.

