

# Instructions

## Active Inverted Magnetron Gauge - Electrode Kit

These instructions are applicable to the following: AIM Electrode Kit (Item Number D145-45-802), AIM-SL Electrode Kit (Item Number D145-48-802).

### 1 Dismantle the AIM Gauge

1. Hold the body tube and magnet housing in separate hands.
2. Push the components together and turn the magnet housing anti-clockwise (relative to the body tube) to release the bayonet-type locking mechanism, then separate the two components keeping their centre lines in-line.

### 2 Dismantle the tube

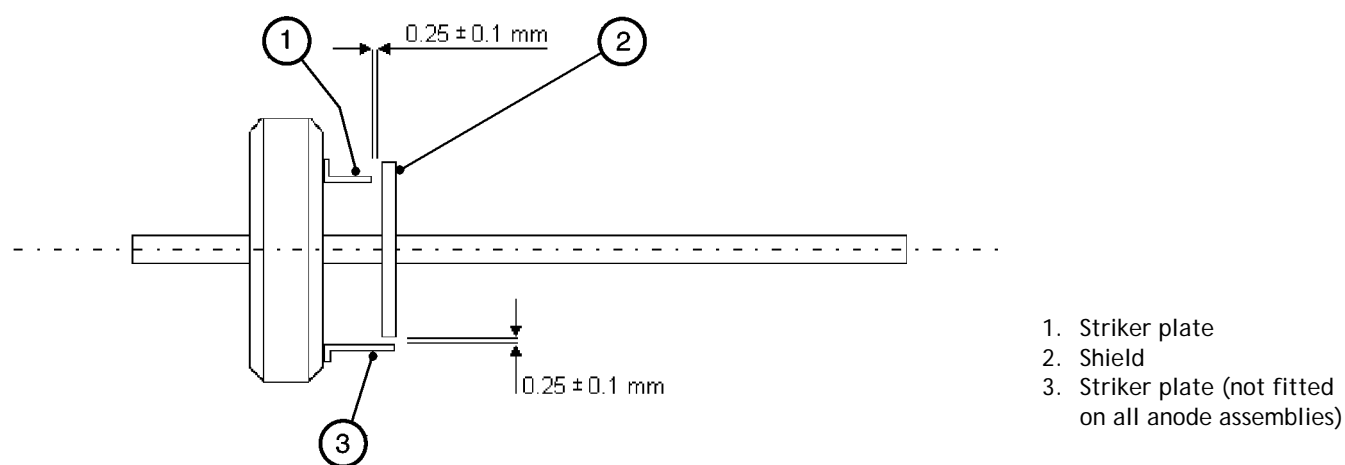
1. Unscrew and remove the white collar: take care not to bend the protruding anode assembly pin.
2. Remove the anode: keep the centre line of the tube and anode in-line. Ensure that you do not bend the anode pin.
3. Remove the Viton™ 'O' ring.
4. Use circlip pliers to remove the circlip from the other end of the tube.
5. Remove the cathode from the tube.

### 3 Reassembly

Reassemble the components as described in [Section 2](#) but in the reverse order. Note that:

- A cathode plate is at one end of the cathode tube. This plate should be at the collar end (that is, the opposite end to the vacuum flange). When you reassemble the AIM Gauge, make sure that the long pin end of the anode enters the centre hole in the cathode plate.
- Before you screw in the collar, check that the anode pin is central within the line of view through the central hole in the cathode tube.
- When you fit the new anode assembly, you must check the gaps between the striker plates and the shield and ensure that they are correctly set as shown in [Figure 1](#) below.

Figure 1 - Striker plate/shield gap settings



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## Return the equipment or components for service

Before you send your equipment to us for service or for any other reason, you must send us a completed Declaration of Contamination of Vacuum Equipment and Components - Form HS2. The HS2 form tells us if any substances found in the equipment are hazardous, which is important for the safety of our employees and all other people involved in the service of your equipment. The hazard information also lets us select the correct procedures to service your equipment.

We provide instructions for completing the form in the Declaration of Contamination of Vacuum equipment and Components - Procedure HS1.

If you are returning a vacuum pump, note the following:

- If a pump is configured to suit the application, make a record of the configuration before returning the pump. All replacement pumps will be supplied with default factory settings.
- Do not return a pump with accessories fitted. Remove all accessories and retain them for future use.
- The instruction in the returns procedure to drain all fluids does not apply to the lubricant in pump oil reservoirs.

Download the latest documents from [www.edwardsvacuum.com/HSForms/](http://www.edwardsvacuum.com/HSForms/), follow the procedure in HS1, fill in the electronic HS2 form, print it, sign it, and return the signed copy to Edwards.

**Note:** *If we do not receive a completed HS2 form, we will not accept the return of the equipment.*

