Zeeman Shroud-Electrode Upgrade Kit for the GTA 120 Instruction Sheet

The Zeeman Shroud-Electrode upgrade kit extends the tube lifetimes in GTA 120Z instruments. The kit includes:

- Alignment checking tool, 5 mm
- Alignment checking tool, 4 mm*
- Zeeman pyro-coated shroud
- Zeeman narrow bore electrodes
- Instruction sheet.

*The 4 mm alignment tool can be distinguished by four grooves on the probe and spacer.

Figure 1. Kit contents: The 5 mm alignment checking tool is shown in the bottom left; and the 4 mm alignment checking tool (with grooves on the black probe and white spacer) is shown in the bottom right.
Checking Workhead Alignment

**WARNING**
Hot Surface Hazard
The surface of the workhead can be very hot. Allow it to cool for a few minutes before touching or removing it.

To check the workhead alignment:

1. Remove the work head from the instrument and place it on a bench.
2. Remove the two end windows from the workhead (refer to Figure 2).

![Figure 2. Removing an end window](image)

3. Insert the spacer into the shroud. Use the 5 mm alignment checking tool for workheads fitted with wide bore electrodes. Use the 4 mm tool for workheads with narrow bore electrodes (refer to Figure 3).

![Figure 3. Inserting the spacer into the shroud](image)

4. Close the workhead.
Insert the probe through the electrode holder as far as possible (refer to Figures 4 and 5). Do not force the probe. If the rim of the probe is not reached, the workhead has poor alignment (refer to Figure 6).

**Figure 4.** Inserting the probe to check workhead alignment

**Figure 5.** Workhead with good alignment

**Figure 6.** Workhead with poor alignment
6 Repeat Step 5 for the other side of the workhead (see Figure 7).

![Opposite side of the workhead](image_url)

**Figure 7.** Opposite side of the workhead

7 If the workhead has good alignment:
Replace the shroud and electrodes with those supplied in the upgrade kit. Use the shroud removal tool and electrode extractor tool.

If the workhead has poor alignment:
Order a replacement workhead, as it cannot be re-aligned. The replacement workhead will have the new shroud and electrodes factory-fitted so you do not have to install the upgrade kit. Once you have received the replacement, return the faulty workhead.

---

This information is subject to change without notice.

---

Part Number: 851022510
Edition 08/12
Issue 4

Agilent Technologies
679 Springvale Road
Mulgrave, VIC 3170