

## ETC 60 Workhead Mk 2 Bracket Installation Instruction Sheet

The ETC 60 workhead Mk 2 bracket allows the ETC 60 workhead Mk 2 to be used with the SpectraAA instruments (refer to Appendix 1 for a full list of compatible instruments). The bracket allows installation of the following cells (in conjunction with the ETC 60 Mk 2 workhead) in the sample compartment:

- Mercury flow-through cell
- Standard hydride absorption cell

These instructions describe how to:

- Install the ETC 60 workhead Mk 2 bracket
- Install the absorption cell in the ETC 60 workhead Mk 2

### Installation Instructions



**Figure 1.** ETC 60 workhead Mk 2 bracket

**To install the ETC 60 workhead Mk 2 bracket:**

- 1 Remove the upper and lower flame shields.

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**NOTE**

Steps 2 and 3 do not apply to 'G' (dedicated furnace) models.

For G versions:

- a Remove the GTA workhead and put it in the storage position.
  - b Go to Step 4.
- 2 Remove the burner.



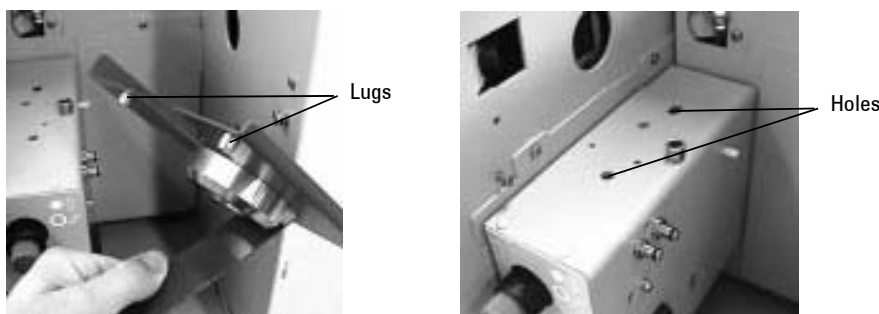
**WARNING**



**Hot Surface Hazard**

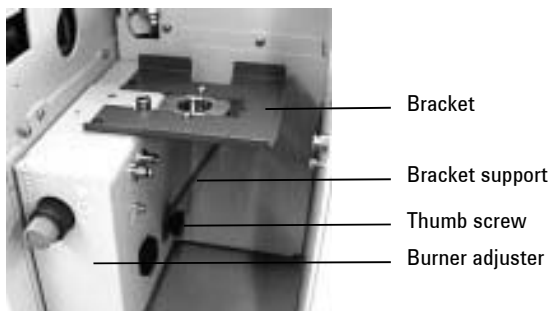
The burner is extremely hot during operation and will remain hot for some time after operation. Make sure that the burner has had time to cool before you attempt to remove it. Wear heat-insulated gloves.

- 3 Remove the spray chamber and store it in the provided stand.
- 4 Fit the two lugs on the workhead Mk 2 bracket into the two holes on top of the burner adjuster.



**Figure 2.** Lugs on workhead Mk 2 bracket (left). Holes on top of burner adjuster (right)

- 5 Screw the thumbscrew through the bracket support and into the side of the burner adjuster to hold the bracket in place.



**Figure 3.** Bracket fitted to burner adjuster

- 6 Slot the ETC 60 workhead Mk 2 into the hole in the bracket.
- 7 Connect the temperature sensor cable to the workhead. Plug the cell heater and temperature sensor cable into the appropriate sockets at the rear of the ETC 60 control module.

**TIP**

Horizontal adjustment can be achieved by adjusting the bracket thumb screw.

**Installing the Absorption Cell**

**To install a cell:**

- 1 Undo the latches on the ETC 60 workhead cover and lift it up.
- 2 Carefully place the cell in the ETC 60 workhead making sure that the inlet stem is located in the groove at the front of the ETC 60 workhead.
- 3 Carefully close the ETC 60 workhead cover and secure the latches.

- 4 Connect the black transfer tubing from the outlet of the gas-liquid separator to the inlet of the absorption cell.
- 5 Optimize the ETC 60 workhead position for maximum light transmission by using the burner adjuster controls.
- 6 Connect the mains power cable to the ETC 60 temperature control module.

The system is now ready for use.

## Software

To use the ETC 60 workhead Mk 2 accessory with the Windows-based SpectrAA software (see Appendix 1 for a list of appropriate instruments) you must develop a vapor method.

To complete an automated sequence of elements in one run you must develop and run a vapor sequence.

When developing a vapor method and the element being determined is Hg, set the atomizer type to 'Cold vapor'. Select 'Electric Hydride' when determining any other hydride element using the ETC 60 (to atomize the analyte hydride).

Refer to your SpectrAA Help for further information on the development and running of methods and sequences.

## Appendix 1

These instruments can be fitted with the ETC 60 Mk2 workhead bracket:

- AA 875/975
- AA 1275/1475
- SpectrAA 10/20
- SpectrAA 30/40
- SpectrAA 300/400
- SpectrAA 250
- SpectrAA 600/640
- SpectrAA 800/840/880
- SpectrAA 100/200
- SpectrAA 110/220
- AA 50/55

Instruments that are compatible with the following spray chambers are also compatible with the ETC 60 workhead bracket:

- Mark V
- Mark VI
- Mark 7

This information is subject to change without notice.



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