



# *TA Instruments*

## *Packing the AR*

### *G2/2000EX/2000 Instrument*

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This procedure will cover the steps to properly pack up the AR G2/2000EX/2000 for shipment.

**Packing Materials Provided:**

AR shipping box  
Complete shipping foam set (5 pieces)

**Misc. Items Required:**

Bearing cap  
8mm air inlet plug  
Shipping skid

**Tools Required:**

Masking tape  
Heavy-duty packing tape  
Strapping kit

- 1.) Make sure air is turned on.
- 2.) Raise/lower air bearing head, so the top of the draw rod is approx. 4½” from the top of the test station. The top of spindle should be slightly lower than the cutout in the middle of the test station. If it is too low OR too high it may be difficult to pack in a carton (Figure 1). **If shipping the instrument in the reusable TA plastic shipping container lower air bearing head approx. 6 ½“ from the top of the test station.**

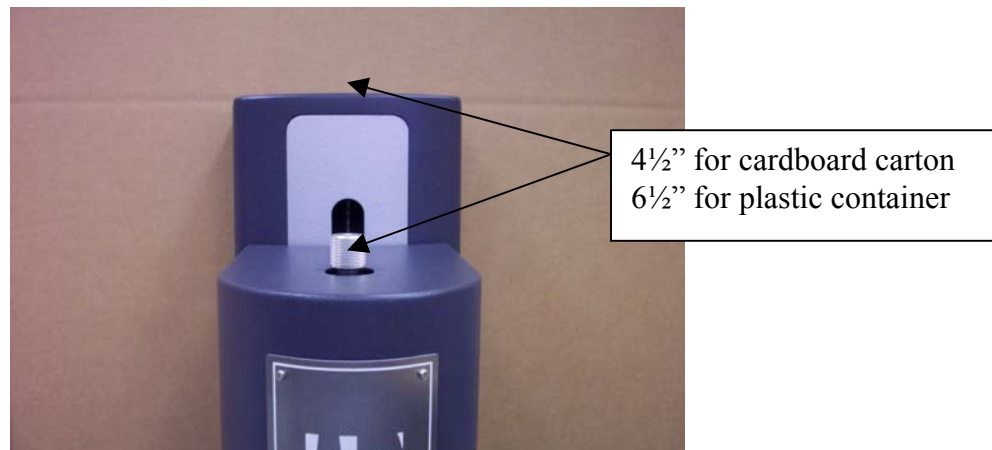


Figure 1

- 3.) Remove the geometry from air bearing shaft and store in a safe place.
- 4.) **Remove all accessories attached to the instrument. These should be disconnected from the instrument prior to shipping. If you are shipping the accessories along with the instrument, they should be packaged separately in their own box.**
  - a.) PELTIER OPTION: Shut down the circulator that supplies water to instrument. Disconnect the two fluid quick connectors on the front of test station. Press release button. Disconnect smart swap connector from test station. Press release button again to release magnet to the peltier. Lift the peltier off of base. Disconnect the two water lines going into the back of the test station from the circulator. Turn off power switch located on Electronics' box.
  - b.) ETC OPTION:
    - For AR G2/2000EX: Press release button on the front panel. Disconnect smart swap connector from test station. Press release button again to release magnet to the lower tool. Lift the lower tool off of base. Turn off the power switch located on the Electronics' box. Disconnect purge gas line. Remove the Left and Right attachments on back of the test station. If ETC is equipped with camera, disconnect the USB cable going to the back of the ETC. Remove the 4 mounting screws. Open the ETC wide and carefully slide up the oven until there is enough space to separate the ETC from the test station.
    - For AR2000: Press release button on the front panel. Disconnect smart swap connector from test station. Press release button again to release magnet to the lower tool. Lift the lower tool off base. Turn off the power switch located on the Electronics' box. Disconnect purge gas line. Remove the Left and Right attachments on back of the test station. Remove the 4 mounting screws. Open the ETC wide and carefully slide up the oven until there is enough space to separate the ETC from the test station.
  - c.) CONCENTRIC CYLINDER: Shut down the circulator that supplies water to Instrument. Disconnect the two fluid quick connectors on the front of test station. Press release button on the front panel. Disconnect smart swap connector from test station. Press release button again to release magnet to the concentric cylinder. Lift the cylinder off base. Disconnect the two water lines going into the back of the test station from the circulator. Turn off the power switch located on the Electronics' box.

- 5.) Lock Air Bearing with draw rod and bearing clamp. Ensure that the Air bearing clamp cannot be moved. Use masking tape to hold the clamp to bearing cover.
  - 6.) Disconnect the airline to the back of the instrument and insert the 8mm air inlet plug. If you do not have a 8mm air inlet plug, cover up the air inlet with some tape.
  - 7.) Mark all cables connected to the AR Instrument.
  - 8.) Disconnect all cables between Test Station and Electronics box.
  - 9.) **If shipping the instrument in the reusable TA plastic shipping container;**
    - a. Place electronics box in shipping container.
    - b. Place test station “face down” in shipping container.
    - c. Include any cables, cords, and small accessories.
    - d. Close top portion of shipping container over the instrument. Secure the latches on all of the sides.
    - e. Your instrument is now ready to ship.
- If shipping the instrument in the cardboard carton, follow steps below:**
- 10.) Remove feet from instrument.
  - 11.) Place cables and feet in a plastic bag (Figure 2).



Figure 2

- 12.) Place bottom foams in box (Figure 3)
- 13.) Lift the Test Station and place it gently in the packing box (Figure 4).  
**DO NOT HOLD the bearing when lifting AR Test Station.**



Figure 3



Figure 4

- 14.) Guard the bearing with foams (Figure 5).
- 15.) Place the Electronics box in the carton.
- 16.) Remove perforated portion of the top foam for Electronics box (Figure 6).

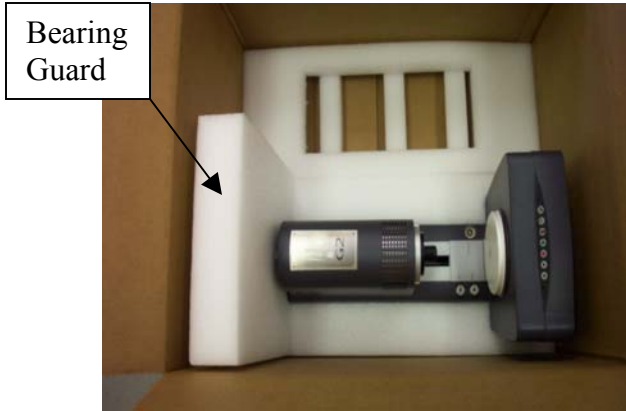


Figure 5

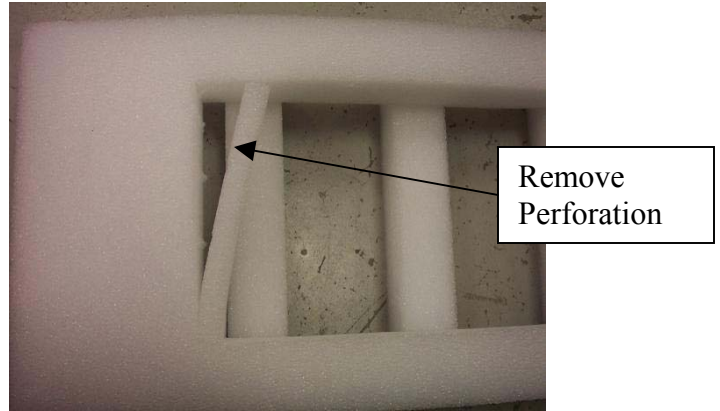


Figure 6

- 17.) Place the Electronics box in the carton and cover it with the appropriate foam (Figure 7).
- 18.) Insert base support foam in the space between Test Station base and corrugated box (Figure 7).

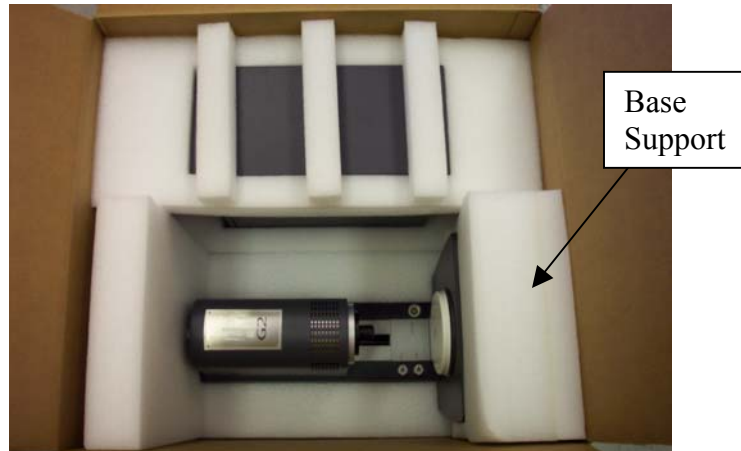


Figure 7

- 19.) Insert packaged cables and Test Station feet into the box.
- 20.) Seal the box with heavy-duty tape.
- 21.) Strap the box tight and secure on a pallet (Figure 8).



Figure 8

22.) Instrument is now ready to ship.

***TA Instruments strongly recommends using a Motor Freight Carrier!***