TA Instruments
Packing the Q1000/Q2000 DSC Instrument

This procedure will cover the steps to properly pack up the Q1000/Q2000 DSC for shipment.

Packing Materials Provided:

Cell shipping foam w/ clamp
Shipping plug
Autolid shipping foam
2 Rubber bands
4 Shipping hooks

Tools Required:

Phillips screwdriver
Flathead screwdriver
3/32" or 5/32" (depending on cooling device)
Heavy-duty tape
Strapping kit

NOTE: If this instrument is equipped with an RCS or LNCS, the flange temperature **must** be at ambient temp **before** removing the cooling head.

1. Remove any samples from the cell area. Remove the dust cover and the sample tray (if applicable).

2. Remove the waste bin and insert the shipping plug (Figure 1).

3. For Q1000:
    a. On the LCD screen, press the "Control Menu" button.
    b. Press the "Autolid" button so the lid will open.

   For Q2000:
    a. On the LCD screen, press the "CONTROL" button
    b. Press the lid icon on the left hand side of the screen.
    c. The control command should say "LID OPEN".
    d. Press "APPLY "button so the lid will open.

4. Remove the 4 screws that hold on the blue cell dress cover and remove the cover.

5. Unplug the 2-pin heater power wire (RCS ONLY).

6. Remove the cooling unit (RCS, LNCS, FACS) from the cell (Figure 2).

7. Place the shipping foam over the cell (Figure 3). Tighten the shipping clamp.

8. Re-install the blue dress cover over the cell (Figure 4).

9. For Q1000:
    a. On the LCD screen, press the "CONTROL MENU" button.
    b. Next, press the "AUTOSAMPLER" button.
    c. The autolid (over the cell) will automatically open (if not already). This is normal.
    d. Next, press the "TEST MODE" button and then the "SENSORS" button.
    e. On this screen, you will see a button labeled "SHIP". Pressing this button will move the autosampler arm and insert the fingers into the shipping plug (Figure 5).
    f. Press the "EXIT" button until you are at the main menu.
    g. Press the "AUTOLID" button to bring the lid down over the foam covering the cell.

    For Q2000:
    a. On the LCD screen, press the "CALIB" button.
    b. Press the autosampler icon.
    c. Select the "MOTOR TEST" tab.
    d. Press the "SHIP" button. Pressing this button will move the autosampler arm and insert the fingers into the shipping plug (Figure 5).
    e. Press the "CONTROL" button, to return to the control menu.
    f. Press the lid icon on the left hand side of the screen.
    e. The control command should say "LID CLOSE".
    g. Press "APPLY "button so the lid will close.

10. Now you will need to install the shipping foam between the autolid outer cover and the arm (Figure 6).

11. Next, band down the autolid arm and autosampler arm using the rubber band and hooks (Figures 7 & 8).

12. For Q1000:
    a. Press the "Display Menu" button on the touch panel. Press the "Shutdown" button.

    For Q2000:
    a. Press the "CONTROL" button on the touch panel.
    b. Press the switch icon.
    c. Scroll down to "SHUTDOWN".

13. Press the “APPLY” button. When the instrument says it okay to shutdown, turn off the power switch on the back of the instrument.

14. Disconnect all cords, cables, and tubing to the instrument.

15. If shipping the instrument in the reusable TA plastic shipping container;
    a. Place instrument in shipping container.
    b. Place top portion of shipping container over the instrument. Note the direction, the “FRONT” is labeled on both the top and bottom portions of the container. Secure the latches on all of the sides.
    c. Your instrument is now ready to ship.

16. If shipping the instrument in the cardboard shipping carton;
    a. Carefully lift the instrument and remove the feet.
    b. Place the instrument on the plastic pallet.
    c. Secure instrument to pallet with 4 shipping bolts.
    d. Place feet and accessories into accessory box and place box next to instrument on pallet.
    e. Place outside carton over pallet and seal with heavy-duty tape.
    f. Using a strapping kit, secure outside carton to the plastic pallet.
    g. Your instrument is now ready to ship.

TA Instruments strongly recommends using a Motor Freight Carrier!

Figure 1

Figure 2

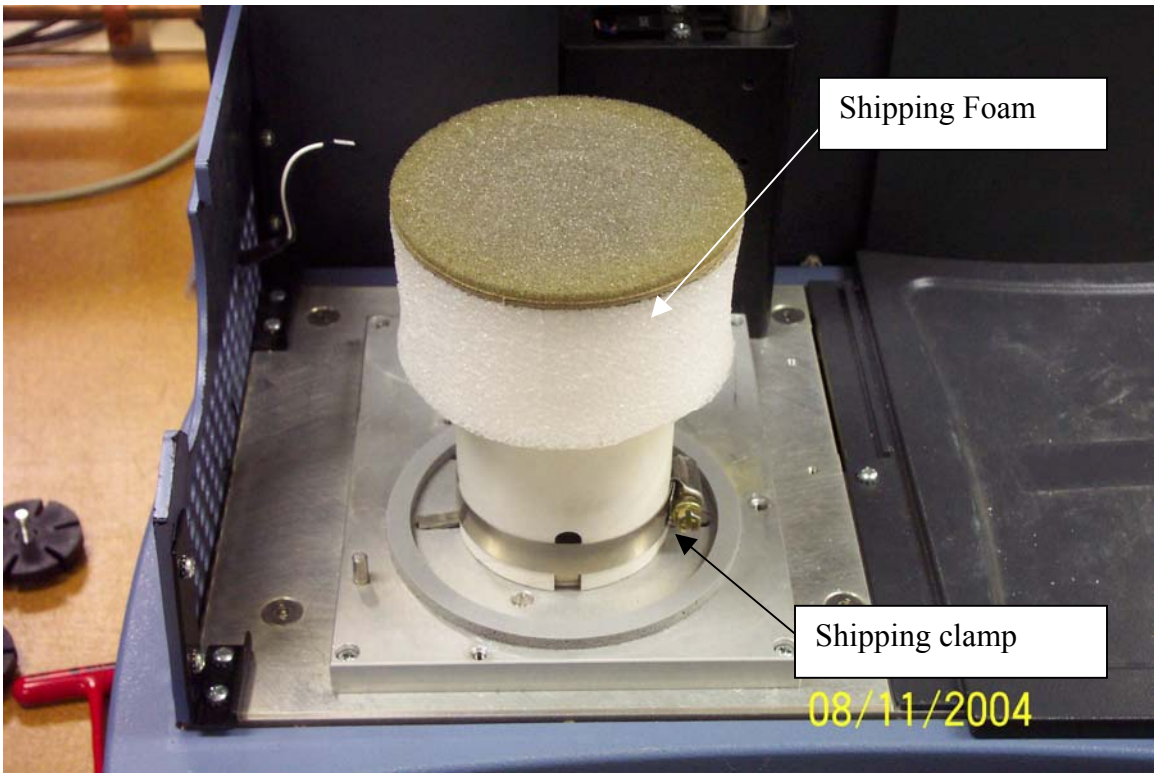

Figure 3

Figure 4

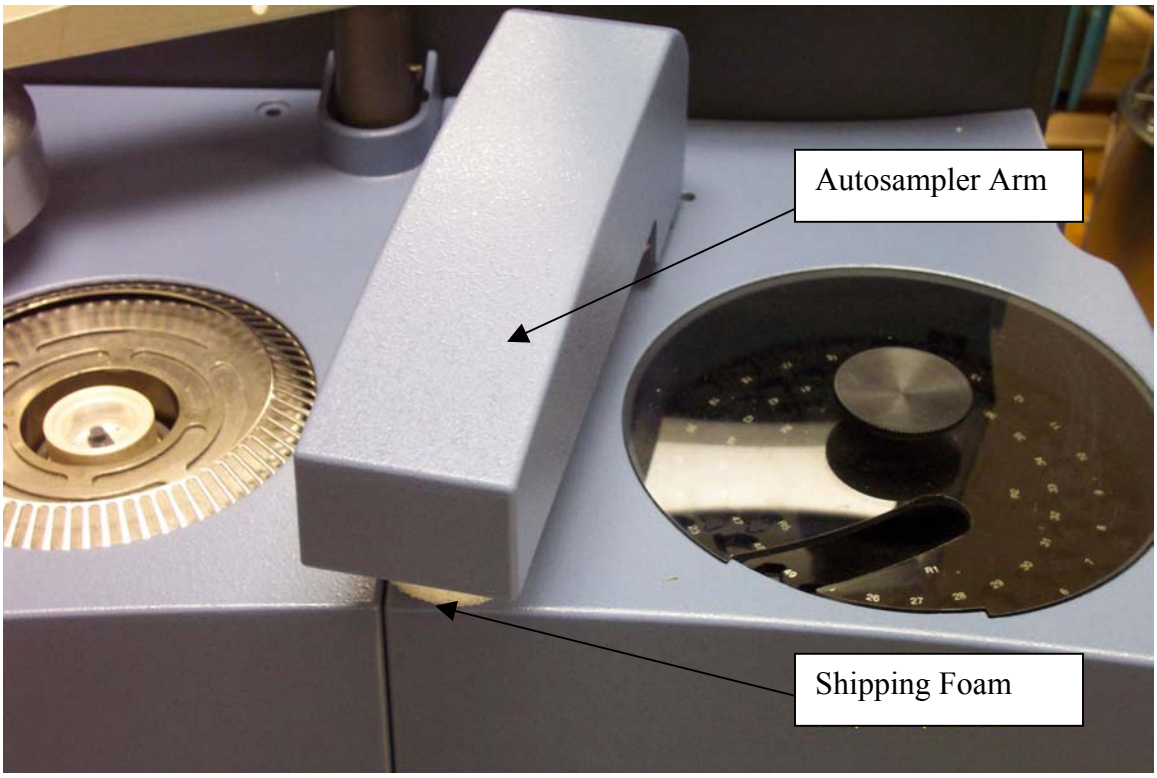

Figure 5

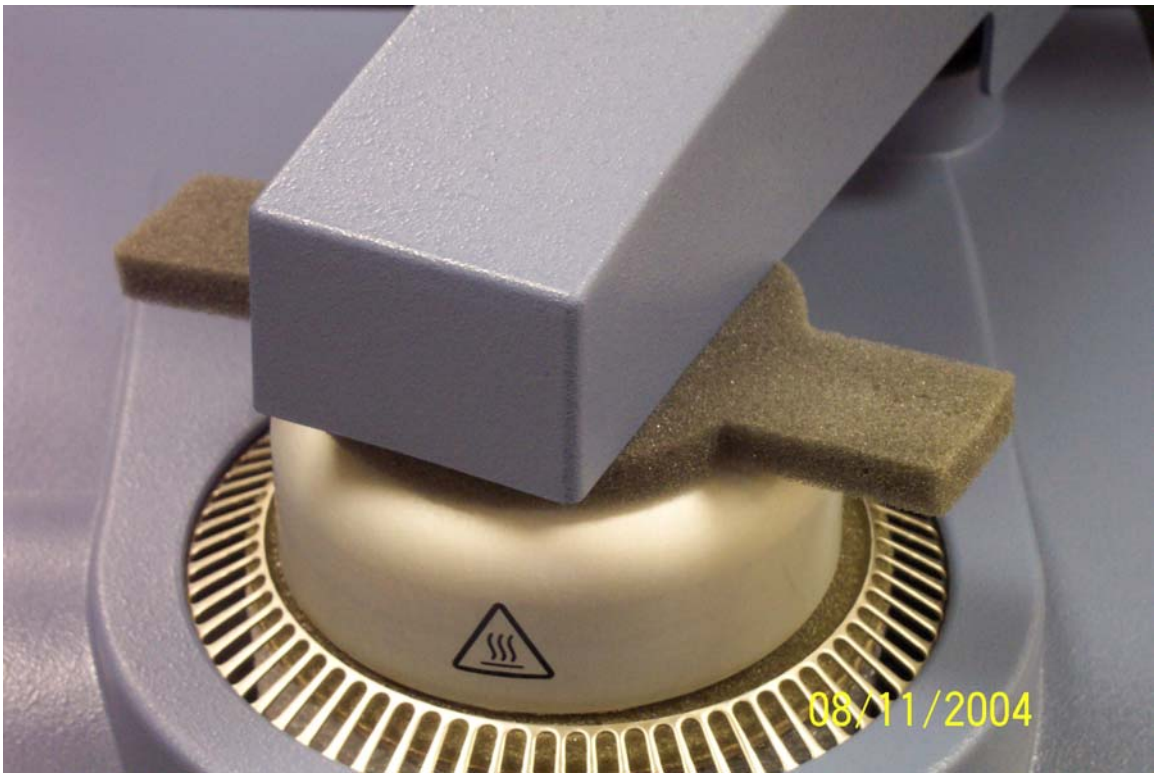

Figure 6

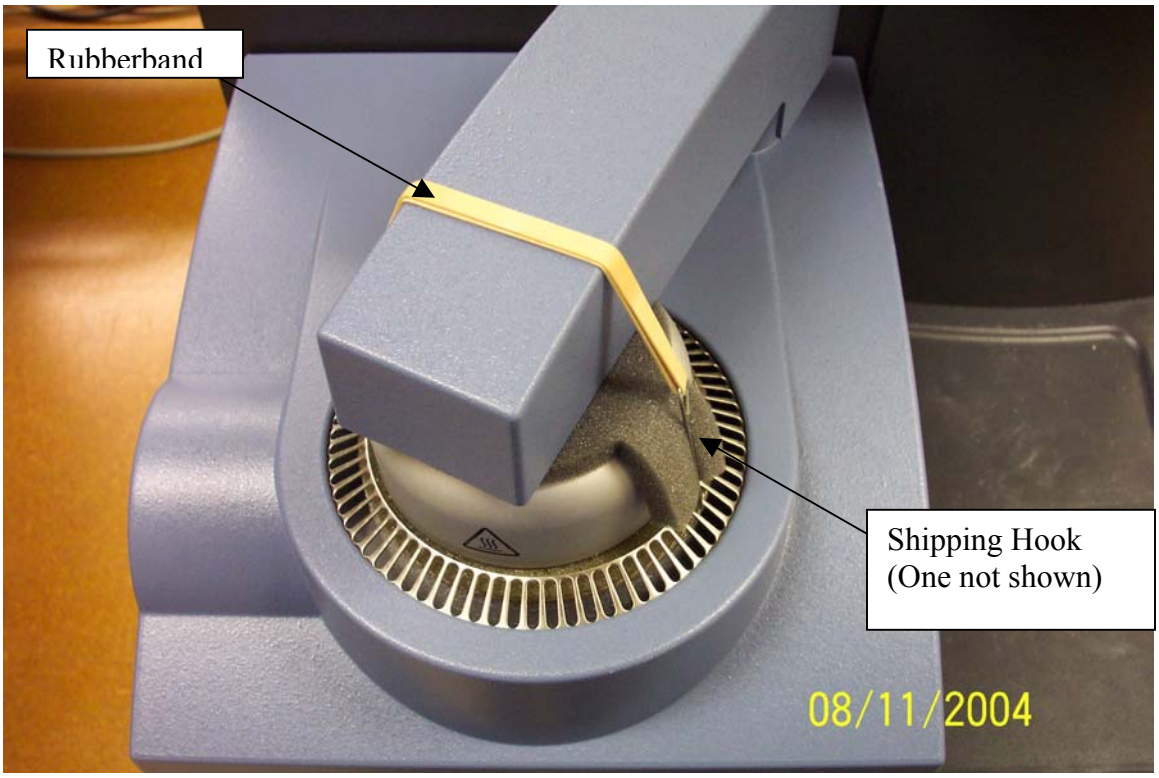

Figure 7

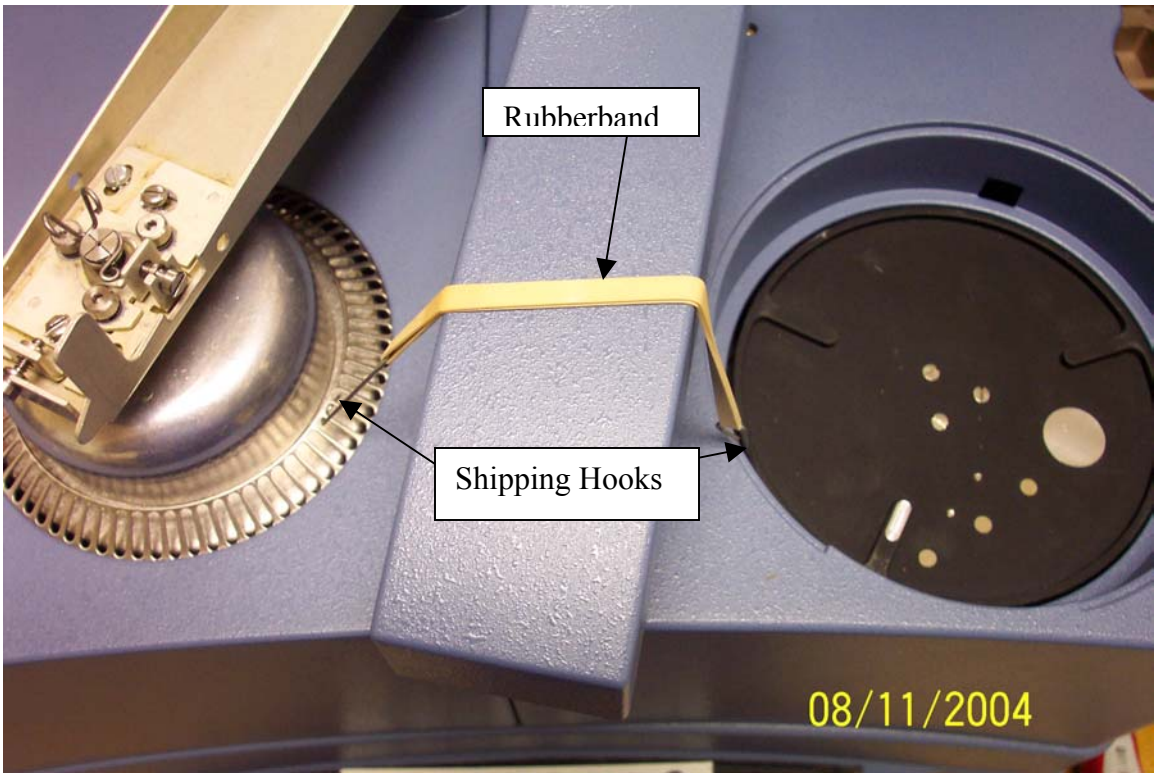

Figure 8