

### **Section 7-3: 5.25" Clamp Adjustment Procedure**

When a 5.25" diskette is inserted into DiskTracer's drive, a door closing arm presses down on the disk-clamp arm, which engages a white plastic hub and a metal spindle (See Figure 7.6). The hub-to-spindle pressure is what holds the diskette in place during the reading and writing process. If the hub-to-spindle pressure is too heavy, the diskette will spin too slowly or not at all. If the hub-to-spindle pressure is too light, the drive will have trouble reading and writing diskettes.

When DiskTracer is in the clamped position with a diskette inserted, the disk clamp arm should be in the middle of its clamped travel range; that is, between the "floating point" of the E-ring and the maximum clamped position (See Figure 7.6). The following procedures tell you how to check and adjust (if necessary) the diskette clamping on your DiskTracer.

If you have any questions about why or how this procedure is performed, contact Trace Customer Support.

**NOTE**

This adjustment is only for 5.25" DiskTracers.

#### **7-3-1: Check Procedure**

1. Turn on power to DiskTracer and place a diskette in the input hopper.
2. To set DiskTracer to the clamped position, use the thumbscrew to remove the rear cover. Install the safety interlock override tool as described in 7-2-2.

### 7-3: Clamp Adjustment Procedure—continued

3. Refer to Section 7-2 for instructions on setting DiskTracer's rotary switches. For this procedure, you will set SW1 to 3. Press the MCL pushbutton.
4. Power off DiskTracer.
5. Examine the disk drive from the side and see where the white plastic hub is seated in the diskette (the metal spindle is underneath the diskette). If the drive has a circuit board on top of it, you may want to detach the wires to get a clearer view of the clamping mechanism.
6. Examine the E-ring on the spindle assembly (See Figure 7.6). If the clamping is correct, the E-ring will rotate if touched and there may or may not be a gap between the E-ring and the disk clamp arm. If the E-ring does not rotate freely or if there is a gap larger than 1/16", refer to the adjustment procedure below.

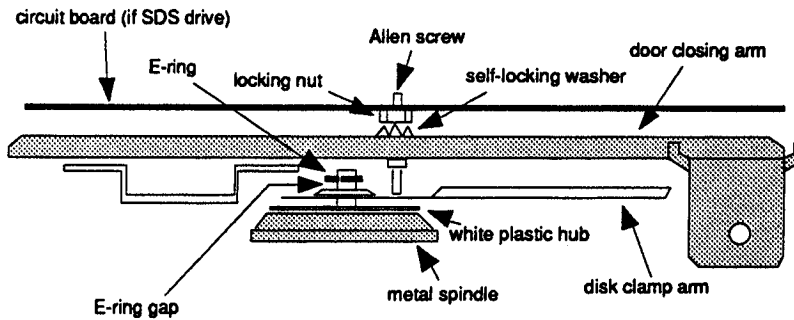
#### 7-3-2: Adjustment Procedure

If you have performed the above check procedure and determined that an adjustment is required, do the following.

1. Ensure that steps 1-3 in 7-3-1 have been followed.
2. Loosen the lock nut on the door-closing arm with an 11/32" (or metric equivalent) open-end box wrench.
3. Adjust knob or hex screw (9/64" or metric equivalent hex wrench) until the white plastic hub just touches the top of the metal spindle. If you have an SDS drive, insert the wrench through the hole directly above the nut (See Figure 7.6). Continue tightening hub down 1/16" more.

**7-3: Clamp Adjustment Procedure—continued**

4. The E-ring should just rotate if touched, but there may or may not be a gap between the E-ring and the disk clamp arm. If there is a gap between the E-ring and the disk clamp arm, make sure that the gap is no larger than 1/16". Care must be taken to not tighten the clamping too much, as this may cause diskettes to warp and/or the spindle motor to stop.



**Figure 7.6: Disk Drive in Clamp Position (Side View)**

5. When you have completed the required adjustments, turn the SW1 back to 0, replace the rear cover, and reattach the power cords. You are ready to resume duplication.

If you have any questions, contact Trace Customer Support.