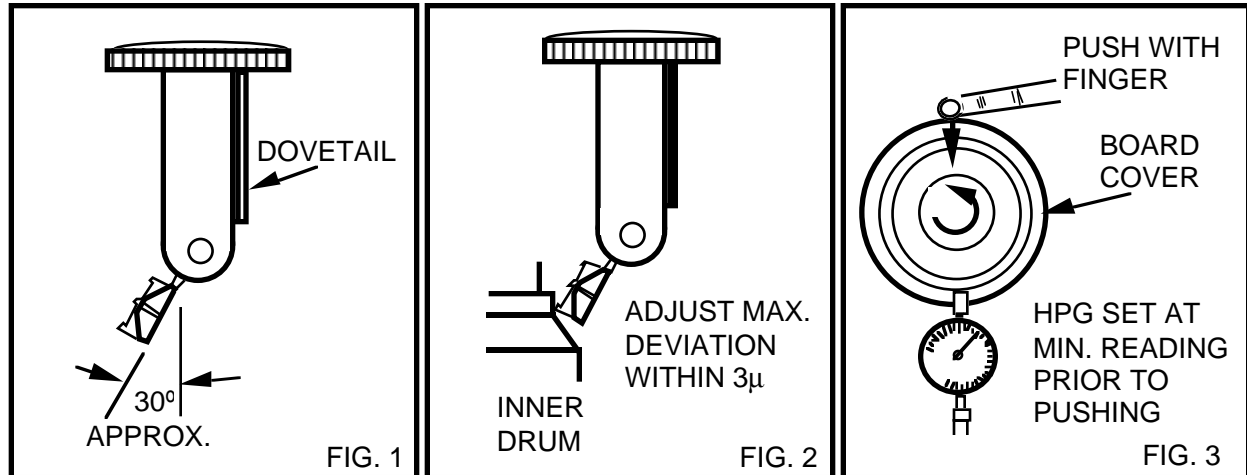


# Tentel Instruction to Replace Sony DVW - Adjustment 10 “Adjust Inner Drum Eccentricity”

Any of the Tentel HPG units can be used to perform this inner drum eccentricity measurement; necessary when replacing the head tips. The Tentel HPG-1 and/or HPD-D can also be utilized to safely confirm the video head tip protrusion after completion of the installation procedure



- Step 1. Use any of the Tentel HPG mounting methods (universal clamp, S2 stand, or 'D' mount) as if normal head protrusion measurements are being made.
- Step 2. Note that the measuring foot/shoe assembly of the HPG is mounted on a slip clutch, so simply grasp the shoe and 'rotate' it forward so that the tip of the measuring foot is jutting out approximately 30° from the vertical, like a chin (see Fig. 1)
- Step 3. Now mount this indicator assembly to the HPG mounting system, and set the 'chin' onto the inner drum position as specified in the Sony instruction. (See Fig. 2)

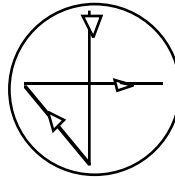
**Caution:** Make certain that the measuring probe does not touch the rotary heads.

- Step 4. Slowly rotate the inner drum counterclockwise (CCW), confirming that the total meter deviation is less than 3 microns in a complete rotation.
- Step 5. Adjustment is usually necessary to attain this 3μ goal, so proceed with steps 6a and 6b, as follows:
- Step 6. Adjust the 4 tightening screws so that the inner drum will only move when finger force is applied. Rotate the inner drum to find the lowest reading.

- a. Push on the board cover opposite to the measuring probe, until the 'deviation' is only 1/2 of the prior measured deviation. (See Fig. 3)
- b. Again rotate the inner drum to determine the total eccentricity error. Repeat 'measuring' and 'pushing' until a maximum reading of  $3\mu$  (or less) is obtained.

Step 7. Tighten the 4 screws gradually in the order of:

1. Rec B-A
2. Rec D-C
3. CNF B-A
4. CNF D-C



Step 8. Confirm that the eccentricity reading remains at less than 3 microns after each successive tightening sequence.

Step 9. Finally torque the four screws to the 8000 gm cm (.78 Nm) requirement following the sequence provided in Step 7. Verify that the eccentricity is still within the  $3\mu$  specification.

This completes the inner drum installation procedure. Proceed with installing the upper drum as shown in the Sony manual.