

Instructions for Adjusting the PS2A Tape Sensor

The instructions below describe how to adjust the height of the tape sensor magnetic disk.

Symptom: The PS2A runs constantly after pressing the dispense key; i.e. tape is not cut off at the selected length and keeps feeding out of the machine.

Machine Operation: Inside the machine is a tape sensor that keeps track of the length of tape being dispensed. The tape sensor is comprised of two parts; a small plastic disk with 2 small magnets embedded in it and a 3 pin Hall effect (magnetic) sensor IC mounted on the PC board. As tape is dispensed the disk spins and the Hall effect sensor counts the magnetic pulses produced.

The Hall effect device will not sense the magnetic pulses from the magnet disk properly if there is too much separation between them. The disk should be no further than 2.5 – 3.0 mm (.10" - .120") from the top of the PC board to insure proper operation. Instructions:

1. Remove the pressure knob from the top front cover of the machine.
2. Remove the 4 screws fastening the plastic cover from the machine and lift it off.
3. Measure the distance from the bottom of the magnetic disk to the top of the PC board. If the gap is too large, push down on the disk until it is within 2.5 – 3.0 mm (.10" - .120") from the top of the PC board. This should leave a gap of approximately 1mm (.040") between the disk and the sensor.
4. Be careful not to move the disk so close that it can hit the Hall effect sensor.
5. Place a drop of penetrating Loctite 290 (or equivalent) in the hole on the top of the disk to secure the disk to it's shaft.
6. Reassemble the cover and knob onto the machine.

