Replace Digital Data Drive Timing Wheel
by DoubleDown

Originally posted on the AtariAge Forums

All right... for any of you who have an ADAM tape
drive with the problem listed above, here's your
fix. The only part you'll need is some rubber tubing
that is 3/8" ID, and 1/2" OD. I used Viton as it
will last a little longer than Buna or Latex, but it
is definately a little harder than the original
(seems to work just fine in mine). Once you have
your tubing (I got mine from McMaster Carr, I use
them a lot for work) slice a bit off, 11/64" in
length. Take apart your tape drive from the back.

- First the rear case (cord grip, and 4 screws).
- Then the outer RF shield and printed circuit
boards (3-4 screws) and inner RF shield.
- On the bottom inside of the drive below the motors
is a small square cover with 2 screws. Remove the
screws, gently lift the cover slightly, and slide
out the opto sensor (has 4 wires going into it).
- With the opto sensor pulled out, take the square
cover off. Be cautious as there are 2 real small
parts in here. One is a very small bushing (looks
like a tiny silver washer), the other is a small
axle (looks like a very small pin) that the encoder
shaft spins on.
- Once these are removed, pull the encoder shaft and
be careful with the encoder's disc. It is attached
to the shaft, but is very thin and fairly delicate.
- Put 2-4 small drops of super glue onto the hub and
slide the rubber tubing onto it so that the rear
face is flush with the rear face of the hub.
- Once the glue is set, trim the front of the rubber
if it sticks out farther than the front of the hub,

by using a razor blade flat against the hub's face.
- Once done, re-assemble in the reverse order,
minding the wiring routing so none get pinched, and
bingo... a working tape drive.

Such a simple fix.