

Figure two. Bypass relay energized by "I-am-healthy" line.
Only one set of contacts is shown. In practice,
three sets would be used, switching a twisted
pair and its shield.

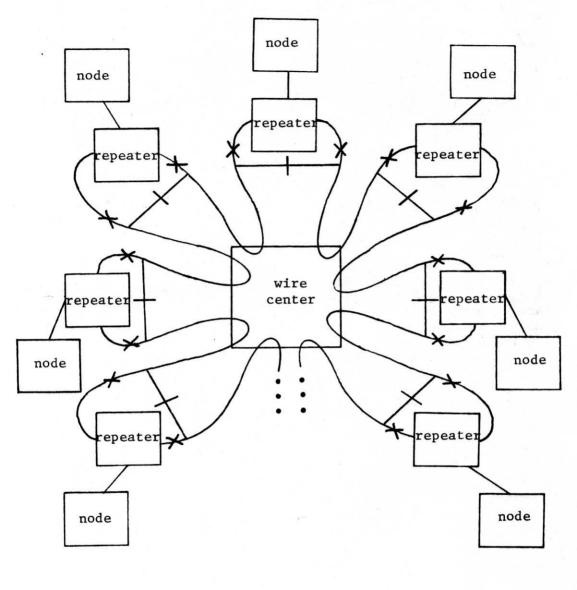


Figure three. Rearrangement of the ring in the shape of a star, to make serviceability easier. Bypass relay contacts are shown thus: normally closed +, normally open \*\frac{\dagger}{\dagger}.

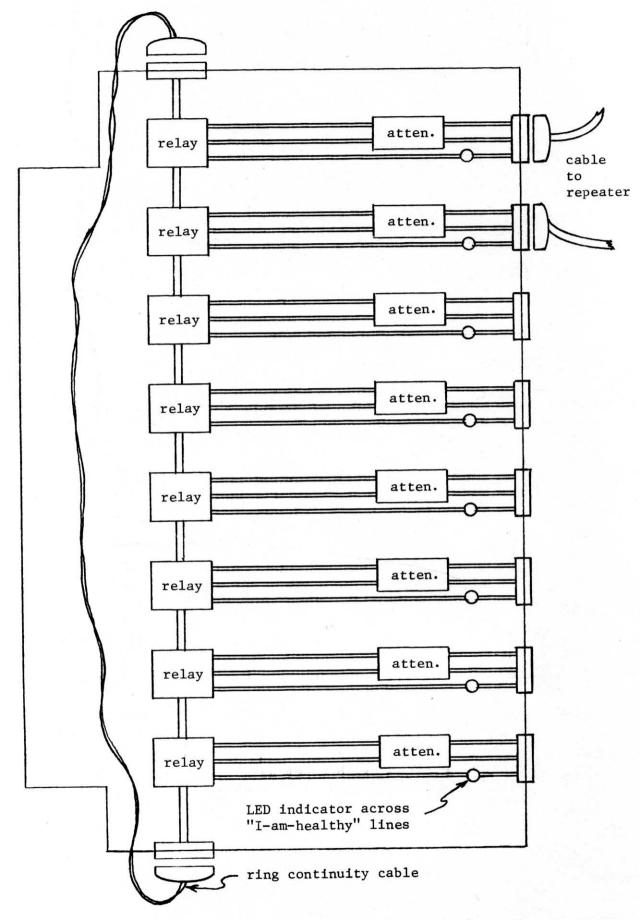


Figure four. Printed circuit board realization of the star-shaped ring.