

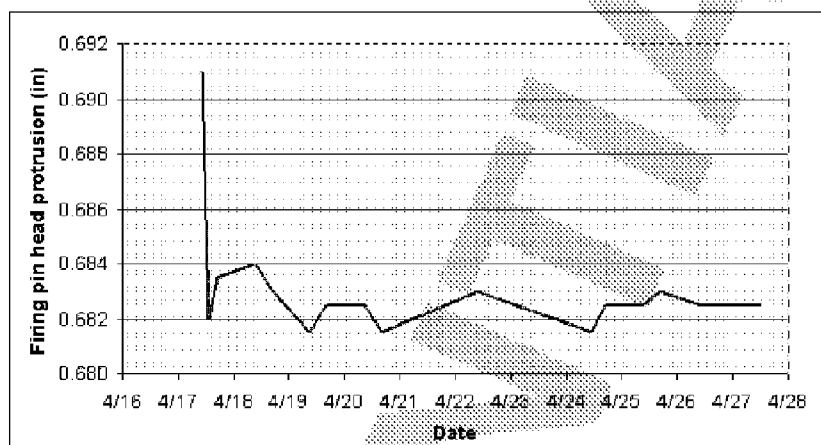


Figure 6. Firing pin protrusion over creep test duration.

Fatigue test. Figure 7 contains a graph of firing pin head protrusion over the duration of the test. In the first test, firing pin head protrusion rose over time. It climbed slowly until 5000 cycles, where it jumped 0.013 inches before leveling off. In the second test, care was taken to rotate the firing pin head back into the same alignment each time the measurement was taken. It turned out to be more consistent, with a low value of 0.693 and a high value of 0.6985 occurring early in the test. After 10,000 cycles had been put on the receiver insert, the fixture was cycled 20,000 more times. The firing pin head protrusion was then measured to be 0.6975 inches.

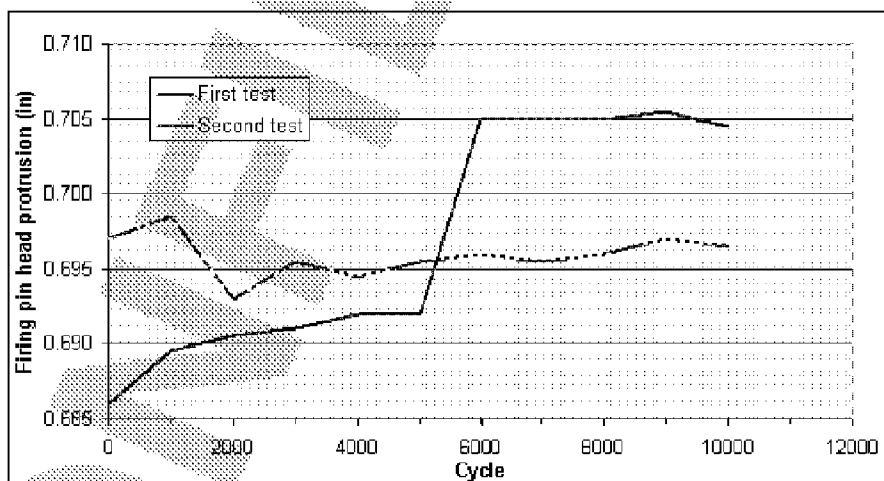


Figure 7. Firing pin protrusion over fatigue test duration.