

IMPOSSIBLE!

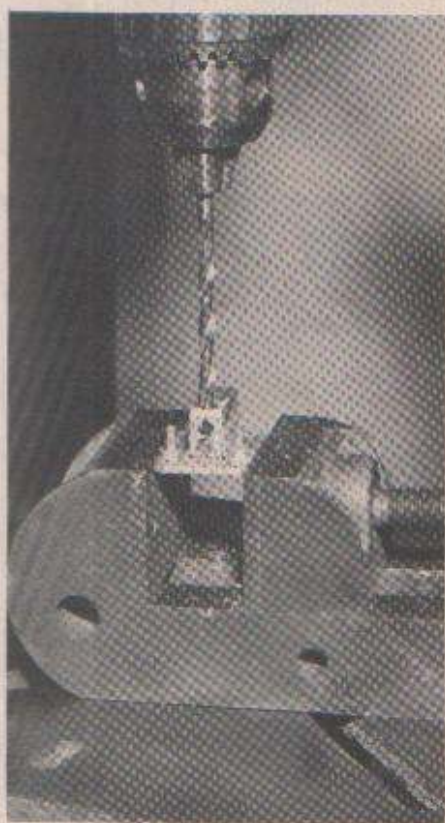
It didn't seem as if the magic one-second mark would ever be broken, but Gene Husting did it at J & J Raceways with a blistering 0.988...with two back-up runs of 1.00 each! It turned 1.01 on a dual racing run, 1.07 on 24 volts. We asked Gene if he would share his secrets with us, he consented by providing complete photographic step-by-step article on construction of his record breaker. Part I shows how to modify a Ram 850 or 857 motor.



1) After disassembling the motor, punch armature bushings out of endplates and then place the R.H. or gear-side endplate in a drill vise, making sure it is square or the bearing hole will not align with the armature shaft. A .221 diameter drill will slip in the bushing hole. Place this drill in the chuck, using it to center the endplate, and then clamp the vise to the drill table. This keeps the reamer aligned.



2) Replace the drill using a .250 reamer, ream out the bearing hole in the endplate but take it easy. The fit for the 1/4-inch ball bearings we'll be using must be perfect. When we're finished the bearing must be a very light finger push fit in the hole. If it's too tight, the thin outer ring on the bearing will be compressed causing the balls to bind and this will cut down the rpm. If it's too loose the bearing will chatter in the hole and the armature will not run true, making brushes float at speed.



3) Remove nylon brush insulators from posts, repeat steps 1 & 2 on left hand endplate working very carefully. Next drill lightening holes in forward or magnet end of endplate. Repeat on right hand endplate.