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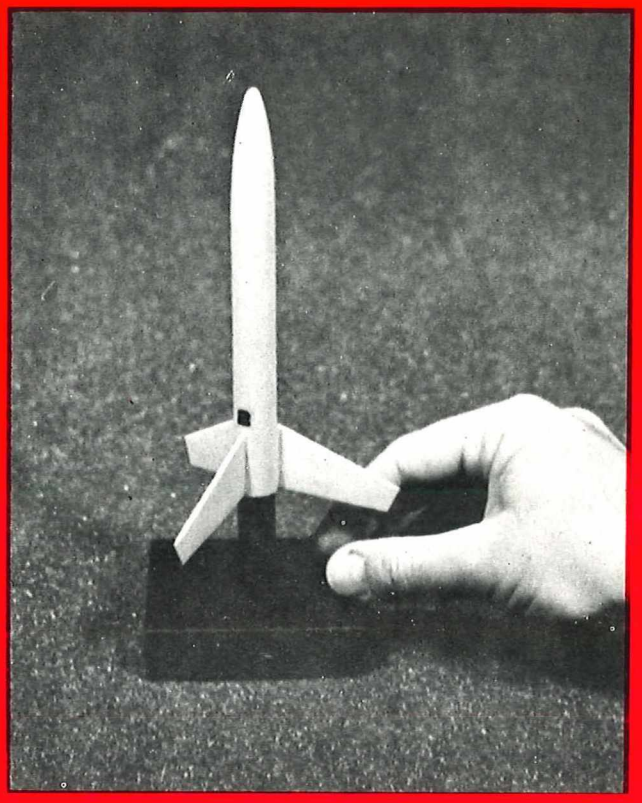
THE avi MINIROCS



On April 2, 1971 at the Massachusetts Institute of Technology (MIT), the world of model rocketry was changed forever. The first Minirocs were revealed to the public, and experienced model rocketeers attending the MIT Model Rocketry Convention could not believe their eyes when they saw how the Minirocs performed. The Minirocs met with instant acceptance from experts, from contest fliers, and from national champions.

Within weeks, major national and international records were shattered by the Minirocs. They went on to win gold medals in international meets, huge trophies at the U.S. NARAM meets, and blue ribbons wherever they showed their tail fins to other models in competition.

The rocket designers struggle to reduce the size, weight and aerodynamic drag of their rocket designs. In model rocketry, we're strictly limited by the amount of power we may use, and we cannot "hop-up" factory-made motors. In order to reduce the weight and drag of model rockets, we must therefore use materials that are as light as possible and use very sophisticated streamlining techniques. But there are limits to how far we can go using standard 18-millimeter-diameter model rocket motors; their weight and frontal area cannot be reduced.

The answer was a smaller model rocket motor: the Minijet. By reducing the motor diameter to 13 millimeters (about half an inch), it became possible to build models so much smaller that their total weight could be reduced by more than 50% while their drag was cut by as much as 46%.

This *doubled* the altitude possible with a given amount of total impulse (motor power).

The light weight and small size of the Minijet motors also made possible new design technologies.

The result is the Minirocs. They are not scaled-down versions of standard model rockets. Modern design technology was used. New materials were incorporated into the designs. The opportunity for major change was grasped, and many totally new features were worked into the Minirocs. All of this makes the Minirocs the most advanced, up-to-date model rockets available.

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