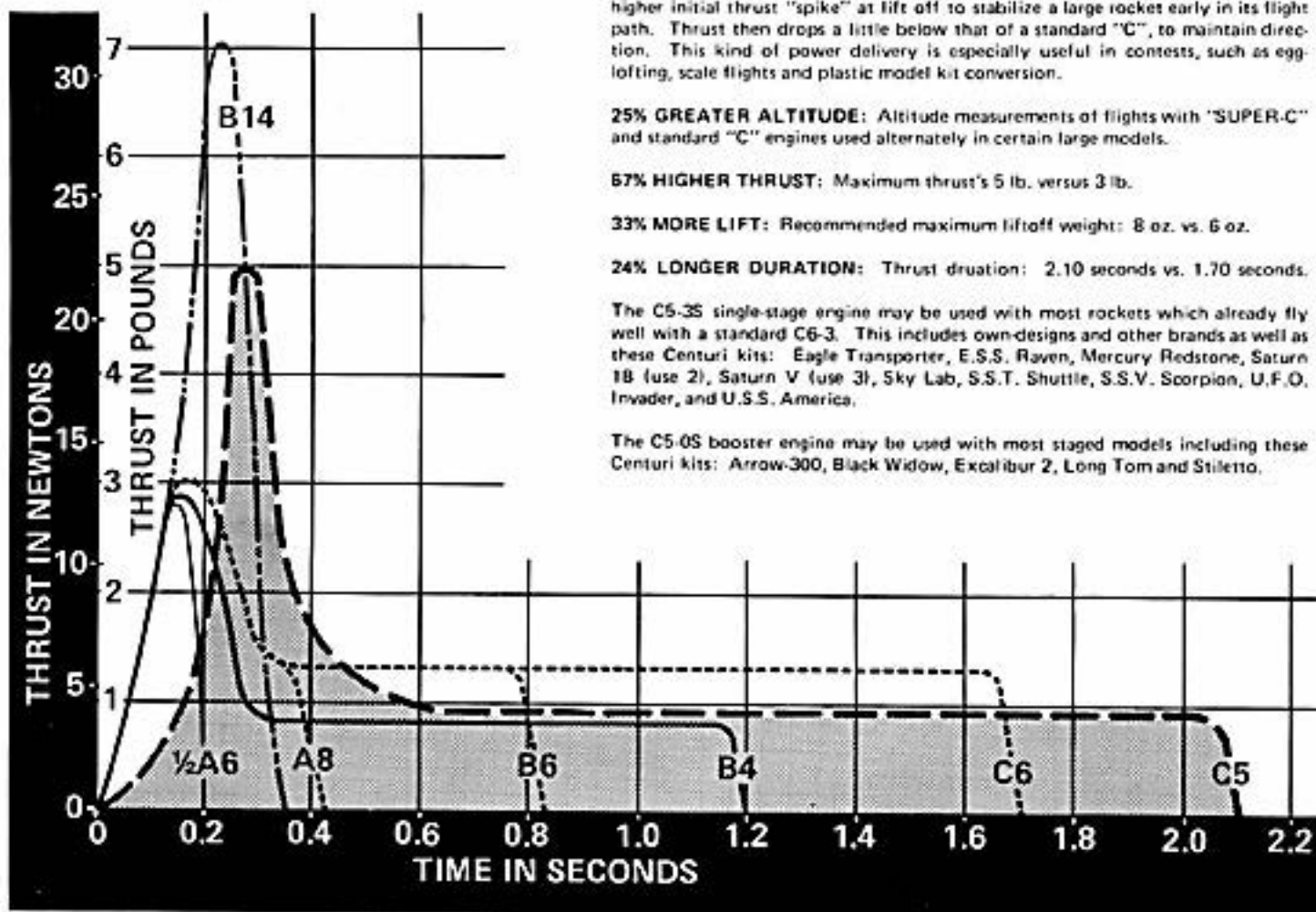




"SUPER-C" C5-3S ▲

▼ STANDARD C6-3

ENGINE CONSTRUCTION: The "SUPER-C" engines (C5 series) are modifications of the popular standard C6 series. The cutaway drawings above illustrate the major differences of "SUPER-C": larger nozzle opening, nozzle cored deeper into the propellant grain and slightly more fuel. The "SUPER-C" is in the same size casing as standard engines. They fit regular engine mounts and require no adapters for use with existing kits.



SPECIFICATIONS & TECHNICAL DATA FOR SUPER-C

	Product Number	Type	IT		F _{AVG}		F _P		T _B	T _D	Engine Weight		Propellant Weight		Recc. Max lift-off wt. (with eng.)	
			Total Impulse lb/sec N/sec		Average Thrust ounces/Newt		Maximum Thrust ounces/Newt.		Thrust Duration seconds	Delay Time + 15% seconds	ounces/grams		ounces/grams		ounces/grams	
Single-stage (green)	5592	C5-3S	2.24	10.00	17.11	4.76	80	22.25	2.10	3.00	.90	25.5	.46	13.0	8.00	227
Booster (red)	5590	C5-0S	2.24	10.00	17.11	4.76	80	22.25	2.10	0.00	.82	23.2	.46	13.0	8.00	227

SUPER-C™ TECHNICAL INFORMATION REPORT

TIR-25 "SUPER-C ENGINES"

Centuri Flying Model Rockets
Box 1988
Phoenix, AZ 85001

The "SUPER-C" single-stage and booster engines are designed to boost big model rockets and multi-stage higher and straighter! They do not replace the standard "C" engine but add a new dimension to rocket flying. Packed 3 to a box; includes igniters. "SUPER-C" engines are reasonably priced, slightly higher than standard "C's." See catalog for prices.

The "SUPER-C" total power of 10 Newton-Seconds is the same as in a standard "C", but it is delivered in a different manner; somewhat like changing transmissions in a stock automobile to increase performance. The "SUPER-C" gives a higher initial thrust "spike" at lift off to stabilize a large rocket early in its flight path. Thrust then drops a little below that of a standard "C", to maintain direction. This kind of power delivery is especially useful in contests, such as egg-lifting, scale flights and plastic model kit conversion.

25% GREATER ALTITUDE: Altitude measurements of flights with "SUPER-C" and standard "C" engines used alternately in certain large models.

67% HIGHER THRUST: Maximum thrust's 5 lb. versus 3 lb.

33% MORE LIFT: Recommended maximum liftoff weight: 8 oz. vs. 6 oz.

24% LONGER DURATION: Thrust duration: 2.10 seconds vs. 1.70 seconds.

The C5-3S single-stage engine may be used with most rockets which already fly well with a standard C6-3. This includes own-designs and other brands as well as these Centuri kits: Eagle Transporter, E.S.S. Raven, Mercury Redstone, Saturn 1B (use 2), Saturn V (use 3), Sky Lab, S.S.T. Shuttle, S.S.V. Scorpion, U.F.O. Invader, and U.S.S. America.

The C5-0S booster engine may be used with most staged models including these Centuri kits: Arrow-300, Black Widow, Excalibur 2, Long Tom and Stiletto.