MODEL ROCKET MOTOR CODING:

All AVI model rocket motors are identified by a Type Code printed on them in accordance with the US standards of the NAR. This Type Code is designed to indicate the important specifications of a motor and to help you select the correct motor for your model.

A typical Type Code might read: B3-5m

The first letter indicates the NAR total impulse range in accordance with the accompanying chart. This tells you the amount of total power or total impulse of the motor.

The first number indicates the average thrust of the motor. Thus, a B3-5m would have less thrust than (but equal power to) a Type B6-4 and would not be able to lift as heavy a model.

The number following the dash indicates the number of seconds of time delay built into the motor before the ejection charge is activated to deploy the recovery system. Thus, our example has 5 seconds of time delay before activating the ejection charge. A dash-zero engine has no time delay and is used in the lower stages of a multi-staged model.

The small letter at the end of the Type Code indicates a casing size other than the standard 18x70mm. size. The standard size carries no letter. The AVI Minijets are designed by the small letter "m" following the Type Code.

AVI MOTOR COLOR CODING:

To make it easier for you to tell which motor you have inserted into your model, AVI has pioneered the use of a colored ring around the nozzle of the engine casing that will tell you at a glance the NAR motor type. The color coding for the nozzle-end ring ia as follows:

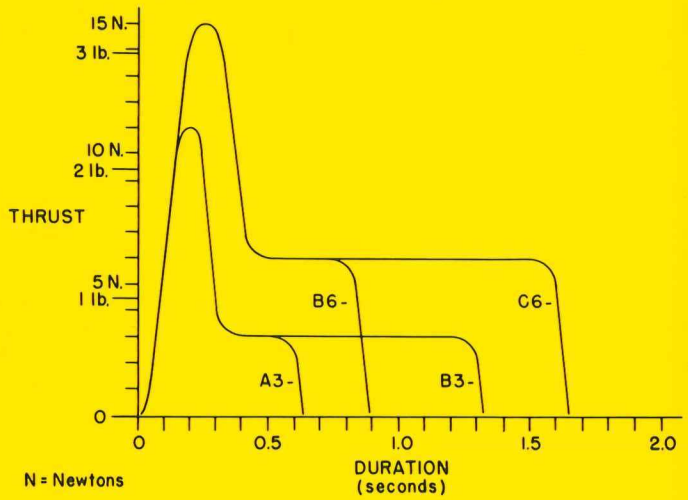
TOTAL IMPULSE RANGE	COLOR
1/2A	brown
A	purple
B	blue
C	green

NAR MODEL ROCKET MOTOR TOTAL IMPULSE-RANGES

(AVI MOTORS)

TYPE LETTER	TOTAL IMPULSE (newton-seconds)
1/2A	0.626—1.25
A	1.26—2.50
B	2.51—5.0
C	5.0—10.00

THRUST vs. TIME CURVES:



AVI THRUSTER-18's® MOTOR SPECIFICATIONS

SIZE: 18 x 70mm (0.690 x 2.75 inches)

NAR TYPE	Total Impulse (N-sec)	Max. Thrust (Newtons)	Avg. Thrust (Newtons)	Duration (sec.)	Total Wt. (Grams)	Propellant Wt. (Grams)	Time Delay (sec)	Price*
A3-2	2.40	11	3.4	0.63	18.0	3.2	2	$0.90
A3-4	2.40	11	3.4	0.63	18.5	3.2	4	$0.90
B3-4	4.80	11	3.4	1.32	20.4	5.5	3	$1.00
B6-0	4.80	15	6.0	0.90	16.9	6.0	0	$1.00
B6-2	4.80	15	6.0	0.90	18.5	6.0	2	$1.00
B6-4	4.80	15	6.0	0.90	19.6	6.0	4	$1.00
B6-6	4.80	15	6.0	0.90	19.9	6.0	6	$1.00
C6-0	9.60	15	6.1	1.64	19.9	11.0	0	$1.20
C6-2	9.60	15	6.1	1.64	21.7	11.0	2	$1.20
C6-4	9.60	15	6.1	1.64	22.6	11.0	4	$1.20
C6-6	9.60	15	6.1	1.64	23.5	11.0	6	$1.20

*STANDARD PACK OF 3 MOTORS, 4 IGNITERS, AND WADDING.

BULK PACK OF 25 IDENTICAL MOTORS AND 30 IGNITERS AVAILABLE TO DEALERS, SCHOOLS, AND CLUBS ONLY.
PRICES: TYPE A: $6.75 TYPE B: $7.50 TYPE C: $9.00

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