
SPECIAL HOLIDAY SALE!!!!!!

COMPOSITE DYNAMICS

PRODUCT
CATALOG

1980

Dear Rocketeer:

Welcome to the world of high-technology model rocketry!! COMPOSITE DYNAMICS produces the world's most advanced model rocket motors & components, capable of altitudes over 1 mile & velocities exceeding the speed of sound!! Heading our product line for 1980 is the new F40 motor. Only .94" in diameter (same as the Estes D12), yet it produces the power equivalent of nearly 5-D12 motors! The E20 motor has the same diameter & length of the D12 but delivers 2-1/2 times the power of the D12! This outstanding performance is made possible by the use of NASA-proven solid propellants and filament-wound fiberglass motor cases. This combination of features is not offered by any other model rocket manufacturer. All COMPOSITE DYNAMICS motors are N.A.R. Safety & Contest Certified and are approved by the California State Fire Marshal.

Our other products complement these motors. Our new body tubing has more than double the wall thickness of standard tubing to withstand the high acceleration and velocities generated by PRO-JET motors. The matching high-temperature epoxy nose cone & coupler are specially designed for the tubing. Our fiberglass fin stock will finish off a truly professional vehicle built with these space-age materials. The HobbyFoam & SuperPoxy kits are useful for numerous construction & repair applications both on & off the flying field. With our fiberglass tubing, you can essentially duplicate the technology used in the Trident, MX and other of our nation's space boosters & ballistic missiles!!

COMPOSITE DYNAMICS is constantly researching new products, so keep in touch for the latest developments.. you can be assured of the highest possible performance with C.D. products!!!

NOTE: Special discounts are available to individuals & schools on larger orders. We offer full discounts & services to hobby shops & other retailers...write for details on both programs!!

WE SUPPORT
THE:



AND



NEW PRODUCTS

SPECIALLY DESIGNED ELECTRIC MATCHES

FOR USE WITH ...

.. HIGH PERFORMANCE COMPOSITE MOTORS OR BLACK POWDER MOTORS ..

CDI-E for the A, B, C, D, and E Motors ... Pack of 4 for only 95 cents

CDI-EM Master Pack ... 25 for \$5.00

CDI-F for "F" motors ... Pack of 4 for \$1.20

CDI-FM Master Pack ... 25 for \$6.25

***** AVAILABLE IMMEDIATELY *****

F40 Adapter Kits

\$1.75

Maxi Alpha • Maxi Alpha 3 • Astron Renegade

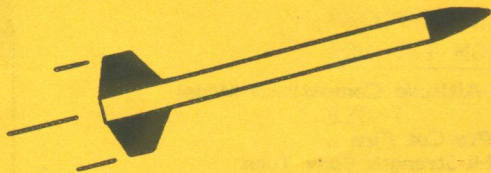
- With CD's quick-change tube, you can quickly change from D12 or E20 to F40!!
- Quick and easy assembly, with hi-strength COMPOSITE DYNAMICS parts.
- Specify kit type when ordering.

***** COMING ATTRACTIONS *****

COMPOSITE DYNAMIC SUPER-SONIC KITS AVAILABLE SOON.....!!

SONICS 80

COMPUTER DESIGNED
FOR
SUPER-SONIC FLIGHTS



Length: 17 1/2 Inches
Diameter: 1 Inch
Weight: 60 Grams

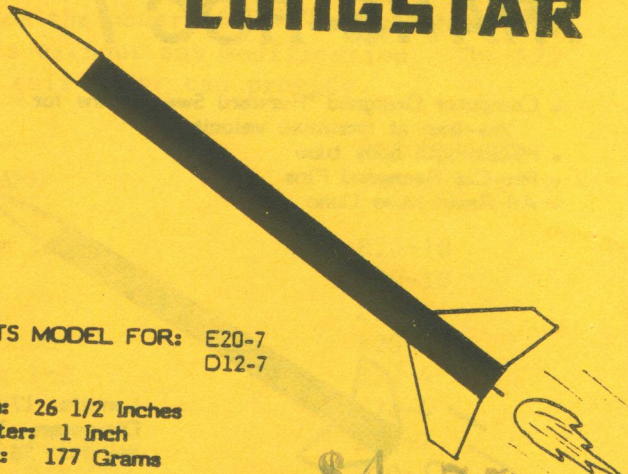
Designed for the F40-15 Engine

WARNING: Very Hi-Altitude flights...
do not launch on small fields !!

- Nose Cone made with hi-temperature Resin
- Pre-Cut Fins & Hi-Strength body tube

\$4.95

LONGSTAR



SPORTS MODEL FOR: E20-7
D12-7

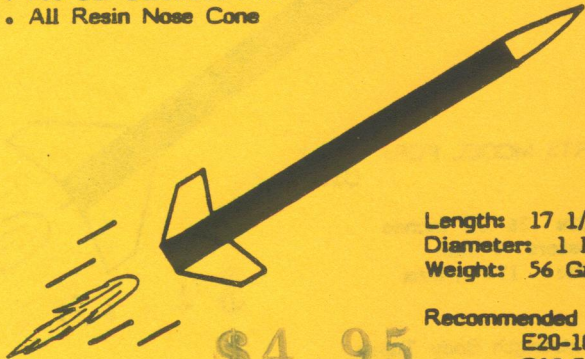
Length: 26 1/2 Inches
Diameter: 1 Inch
Weight: 177 Grams

- Hi-strength Body Tubes
- Pre-Cut Fins

\$4.75

TRANS-ROC I

- Computer Designed "Forward Swept" Fins for low-drag at transonic velocity
- Hi-Strength body tube
- Pre-Cut Basswood Fins
- All Resin Nose Cone



Length: 17 1/2 Inches
Diameter: 1 Inch
Weight: 56 Grams

Recommended Motors
E20-10
D12-7

\$4.95

SONICS 40

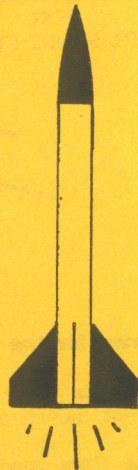
Hi-Altitude Competition Model

- Pre-Cut Fins
- Hi-Strength Body Tube

Length: 14 1/2 Inches
Diameter: 1 Inch
Weight: 58 Grams

\$3.95

Recommended Motors E20-10 or D12-7



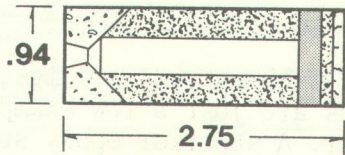
The Pro-Jet E20 Motor by COMPOSITE DYNAMICS has 2 1/2 times the power of a "D" motor, however, it is the same size and can be used in the following models without any modification. The E20 will amaze you with it's high altitude flights that only this motor can provide.

<u>MODEL NAME</u>	<u>RECOMMENDED PRO-JET MOTOR</u>	<u>MODEL NAME</u>	<u>RECOMMENDED PRO-JET MOTOR</u>
Maxi-Alpha	E20-7	Astrocam 110	E20-10
Colossus	E20-4	Goblin	E20-10
Maxi-Alpha 3	E20-4	V2	E20-4
Sky Bolt	E20-10	Honest John	E20-4
Cherokee - D	E20-10	Pershing 1-A	E20-4
Renegade	E20-7	Saturn V	E20-4
Maxi-Icarus	E20-7	Hornet (Magnum)	E20-7
Sky Raider	E20-7	JayHawk (Magnum)	E20-7
Challenger II	E20-10	Thunder Roc	E20-4

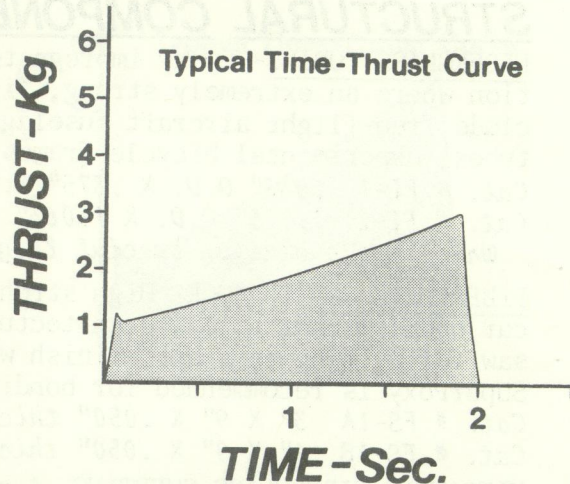
NOTE: FOR YOUR SAFETY, COMPOSITE DYNAMICS DOES NOT RECOMMEND ROCKETS OVER FOUR (4) FEET LONG OR ROCKET MODELS WITH SHARP NOSE CONES.

Pro-Jet® E20

ROCKET MOTOR DATA SHEET



N.A.R. SAFETY
AND CONTEST
CERTIFIED



** Same size as the Estes D12!*

** High Altitudes with Light Rockets!*

Flights over 4,000'!

Low - Priced!

Lifts 1/2 Pound!

Catalog No.	Total Impulse	Ave. Thrust	Duration	Initial Wgt.	Prop. Wgt.	Delay
E20-4	40 N - sec	20 N	2.0 sec	51g	21g	4
E20-7						7 sec
E20-10						10

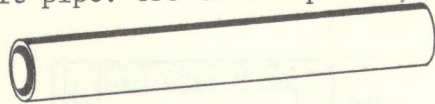
STRUCTURAL COMPONENTS:

FIBERGLASS TUBING- Epoxy impregnated filament wound fiberglass tubing is useful for any application where an extremely strong, lightweight structural member is required. Suggested uses include free-flight aircraft fuselages, high-pressure vessels, coil winding forms, rocket body tubes, experimental bicycle frames & electrical conduit pipe. Use CD's SuperPoxy for bonding.

Cat. # FT-1 .938" O.D. X .875" I.D. X 15" long

Cat. # FT-2 1.125" O.D. X 1.063" I.D. X 15" long

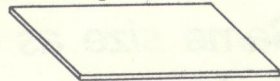
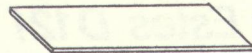
Write for quotes on special lengths (up to 46"!!)



FIBERGLASS SHEET STOCK- High strength structural material with many uses: Jigs, fixtures, R/C car bodies, boat hulls, architectural models & rocket fins are just a few examples. Use a hacksaw for cutting to shape, finish with a file and sandpaper. A superior epoxy such as CD's SuperPoxy is recommended for bonding.

Cat. # FS-1A 3" X 9" X .050" thick

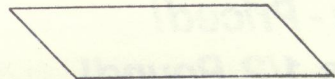
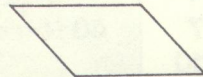
Cat. # FS-1B 6" X 9" X .050" thick



ULTRATHIN FIBERGLASS SHEETING- A new space-age product available only from Composite Dynamics! Lightweight model coverings, electrical insulation & rocket body tube reinforcement are but a few of the applications of this material that combines the strength of fiberglass with the weight & thickness of paper.

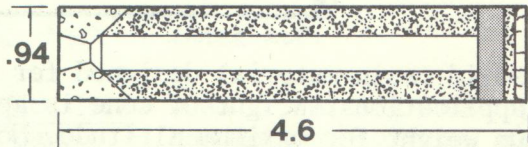
Cat. # FS-2A 12" X 12" X .003" thick

Cat. # FS-2B 12" X 24" X .003" thick



Pro-Jet® F40

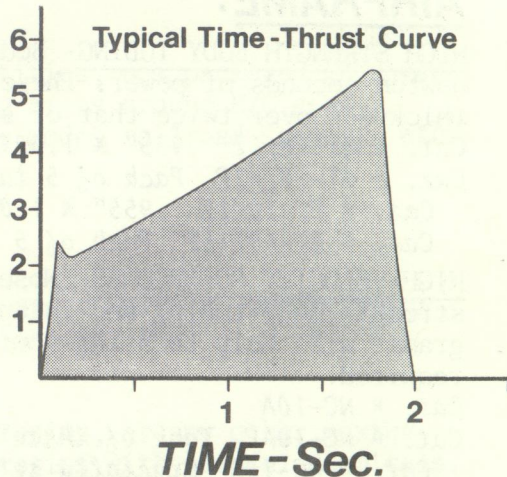
ROCKET MOTOR DATA SHEET



N.A.R. SAFETY
AND CONTEST
CERTIFIED

THRUST - Kg

Typical Time-Thrust Curve



*** Highest Performance Available!**

*** Same diameter as the Estes D12!**

Supersonic Power!

Flights over 1 Mile!

Fits Estes BT-50!

Catalog No.	Total Impulse	Ave. Thrust	Duration	Initial Wgt.	Prop. Wgt.	Delay
F40-6	75 N - sec	40 N	2.0 sec	78 g	42 g	6
F40-10						10 sec
F40-15						15

AIRFRAME:

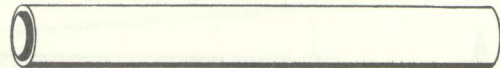
HIGH STRENGTH BODY TUBING- Body tubes especially made for Pro-Jet motors will handle up to 80 newton-seconds of power. These tubes have an outside diameter of 1.0" which results in a wall thickness over twice that of standard body tubing. Perfect for those supersonic flights!

Cat. # BT-10/12 .955" X 1.00" X 12" long

Cat. # BT-10/12P Pack of 5 tubes

Cat. # BT-10/15 .955" X 1.00" X 15" long

Cat. # BT-10/15P Pack of 5 tubes



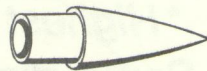
HIGH-VELOCITY SUPERCONES- Nose cones molded of a solid resin material designed for our high-strength body tubing and intended for high-speed applications. Weight of cone is approx. 18 grams- will help to bring your rocket up to optimum weight for maximum altitude. No painting required!

Cat. # NC-10A

Cat. # NC-10AP Pack of three cones

Cat. # NC-10S Specially selected cone with glass-smooth outer surface

Cat. # NC-10SP Pack of three selected cones



BODY TUBE COUPLERS- These couplers are perfect for use with our body tubing listed above. They have a natural paper surface (no glassine) which accepts glue readily.

Cat. # TC-110

Cat. # TC-110P Pack of 5 couplers



RESINS & APPLICATION AIDS:

HOBBYFOAM KIT- Same foam normally available only in 2-quart quantities, now packaged in a convenient 80 gram kit. Great for flotation, insulation, reinforcing areas around R/C gear, rocket motor mounts, making egg capsules, encapsulating payloads, model railroad scenery, etc. Cures in 15 minutes!

Cat. # HF-1

Cat. # HF-1K *Pack of three kits*

ALUMINUM MIXING PANS- Used for mixing small quantities of resins and chemicals. Unlike paper cups, these pans will handle most solvents without degradation. Reusable too!

Cat. # MP-1 *Pack of 10 pans*

MIXING SPATULAS- Suitable for mixing both HobbyFoam & SuperPoxy resins, or any other mixing application. Made from selected hardwoods- will not contaminate resins with harmful chemicals.

Cat. # MS-1 *Pack of 10 Spatulas*

RESIN APPLICATORS- Extra-long reach hardwood dowels with absorbent cotton tips for applying HobbyFoam, SuperPoxy and other resins to small or hard-to-reach areas. Disposable!

Cat. # RA-1 *Pack of 25 Applicators*

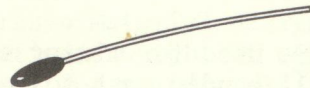
IGNITORS & RESINS:

ROCKET MOTOR IGNITORS- These ignitors will ignite any type of port-burning plastic composite propellant model rocket motor. They will also work with standard black powder motors having a nozzle throat diameter greater than .150". Superior to our standard ignitors- a high-energy pyrogen provides quicker & more efficient ignition. You can see the difference! Shipped in packs of 5 ignitors each.

Cat. # CDI-1 E20 Ignitor approx. 3.3" long

Cat. # CDI-2 F45 Ignitor approx. 4.0" long

Cat. # CDI-3 F40 Ignitor approx 5.0" long



SUPERPOXY KIT- An 80 gram, moderate cure time epoxy with superior strength characteristics. More heat resistant than standard adhesives, formulated in CD's Resins Division and not available from any other source. Easy 1:1 mixing ratio that actually gets stronger with heat. Suitable for bonding, laminating, casting and any other application where a strong, high-quality epoxy is needed.

Cat. # SP-1

Cat. # SP-1K Pack of three kits

ORDER FORM

Cat. #	Quan.	Description	Price	Total

SHIP TO:

Name _____

Address _____

City _____

State _____ Zip _____

Age _____

MAIL TO:

Composite Dynamics
Box 5142
Torrance, CA 90510

SUB TOTAL

Discount (If applicable)

Calif. Residents add 6% Sales Tax

Shipping Charge from Chart

Additional Postage- Canadian Orders

Insurance (If desired)

TOTAL ENCLOSED

PRICE LIST

Catalog #	Price	Cat. #	Price
F40-6, 10, 15	\$ 5.95 ea 17.25-3/PAK	2650P	\$1.25
F45-4, 8, 12	6.95 20.25-3/PAK	FT-1	2.99
E20-4, 7, 10	4.00 11.25-3/PAK	FT-2	3.50
BT-10/12	.75	FS-1A	1.50
BT-10/12P	3.50	FS-1B	2.99
BT-10/15	.90	FS-2A	2.50
BT-10/15P	4.25	FS-2B	4.99
NC-10A	.99	CDI-1	2.50
NC-10AP	2.75	CDI-2	2.50
NC-10S	1.25	CDI-3	2.50
NC-10SP	3.50	SP-1	2.95
TC-110	.20	SP-1K	8.50
TC-110P	.79	HF-1	1.99
MC-4P	3.50	HF-1K	5.75
2250P	1.25	MP-1	.99
		MS-1	.49
		RA-1	.39

POSTAGE CHART

Sub Total	Shipping Charge
\$0 to \$9.99	\$1.75
10 to 19.99	2.35
20 to 29.99	2.75
30 to 39.99	3.00
40 to 49.99	3.25
50 to 74.99	3.75
75 to 99.99	4.50

Canadian orders add to the above figures:

\$20 to 39.99 Purchase- \$1.50

40 to 99.99 Purchase- 3.00

NOTICE: The prices in this catalog are current as of 1 June 1980. This catalog supercedes all previous catalogs, data sheets & price lists. Prices subject to change without notice.

IMPORTANT ORDER INFORMATION:

COMPOSITE DYNAMICS will not be responsible for uninsured orders. If you desire insurance, add \$1.10 to your order.

Canadian orders require extra postage for shipment. Current Canadian customs regulations allow only six (6) rocket motors per package, therefore extra postage is required to ship multiple packages. Please see postage chart on order form for details.

NOTICE: These products are intended for experimental and educational usage only. COMPOSITE DYNAMICS shall not be held responsible for any personal injury or property damage resulting from the handling, storage, or use of these products. The buyer assumes all risks and liabilities therefrom and uses our products on these conditions. The only obligation of COMPOSITE DYNAMICS or its authorized distributors shall be the replacement of our products which are proven to be defective. No warranty, either express or implied, is made regarding the reliability or performance of our products.

USE ONLY UNDER N.A.R. SUPERVISION. FOLLOW ALL N.A.R. SAFETY REGULATIONS.

COMPOSITE DYNAMICS

Box 5142, Torrance, CA 90510

