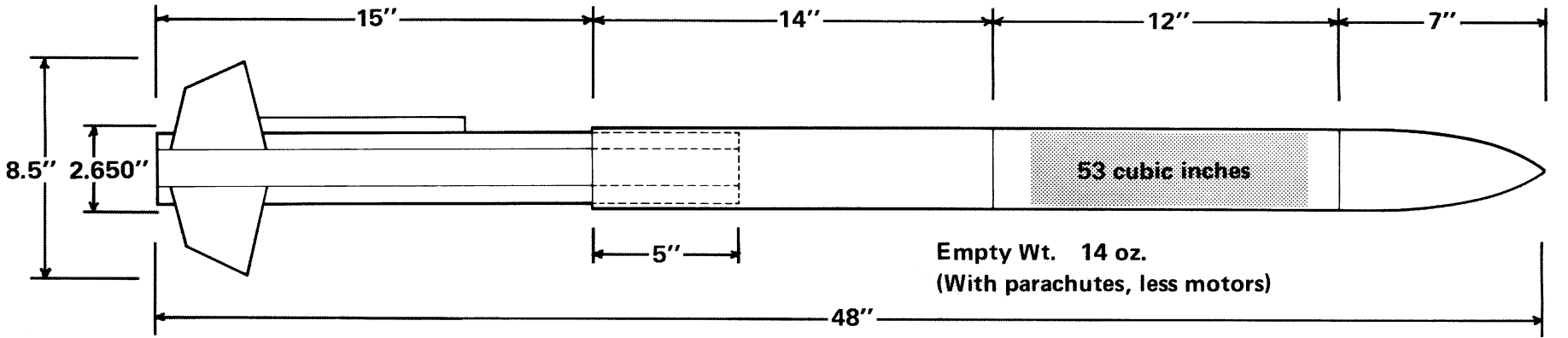
enerjet®

2650™

SOUNDING ROCKET

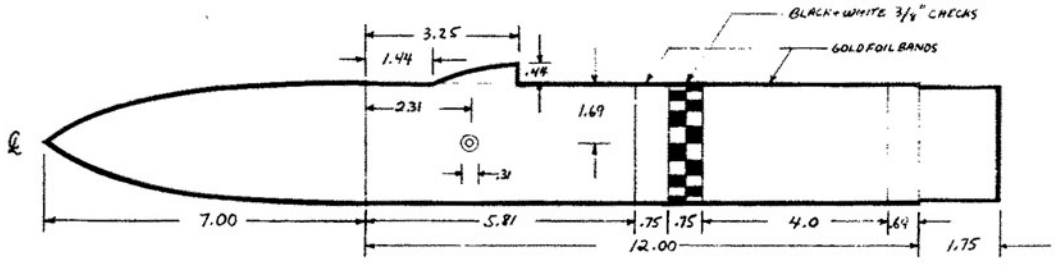
2650 SPECIFICATIONS

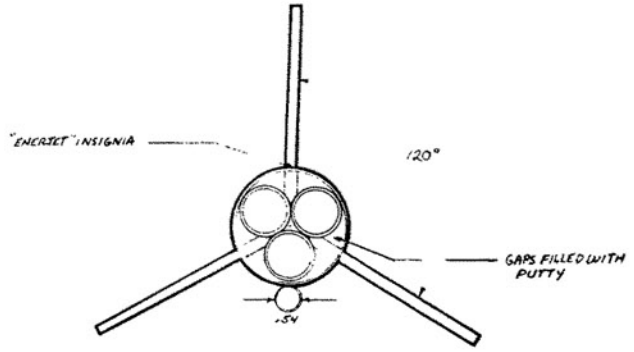


Rev.	CHANGE	Changed by	Checked by	Approved by Date	Issued by Date

PAYLOAD

FINISH: GLOSS BLACK



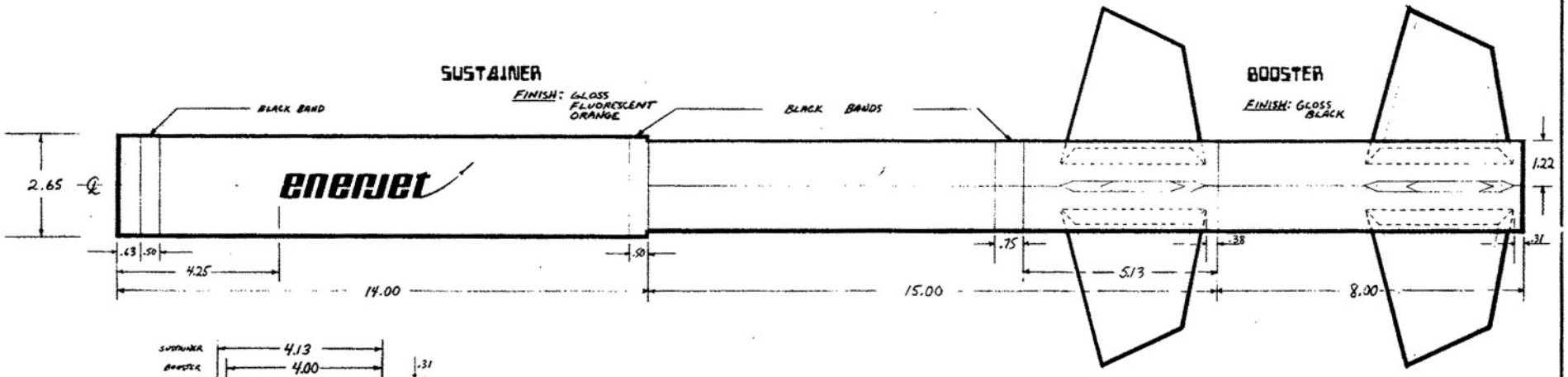


SUSTAINER

FINISH: GLOSS FLUORESCENT ORANGE

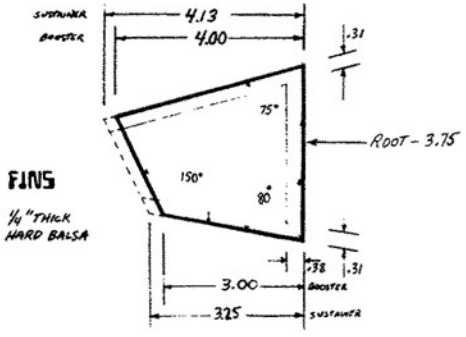
BOOSTER

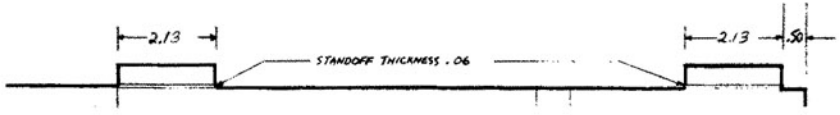
FINISH: GLOSS BLACK



FINS

MAT'L: 1/4" THICK HARD BALSA





LAUNCH GUIDE DETAILS
(SIDE VIEW OF TOP STAGE)

NOTE: ALL MATERIALS BALSA AND SPIRAL WOUND KRAFT TUBING

LIST OF MATERIAL

UNLESS OTHERWISE SPECIFIED	DRAWN BY / DATE	TITLE	COMPOSITE DYNAMICS
TOLERANCES: DECIMALS .XX ± .01 .XXX ± .016 .XXXX ± .005; ANGLES ± 1°	CHECKED BY / DATE	UPRATED 2650 SOUNDING ROCKET	
MATERIAL: AS NOTED	DESIGN BY / DATE		
FINISH: AS NOTED	APPROVED BY / DATE		DWG. SIZE / DRAWING NO.: 010
HEAT TREAT: NONE	ISSUED BY / DATE	SCALE 1/2	SHEET 1 OF 1 SHEETS

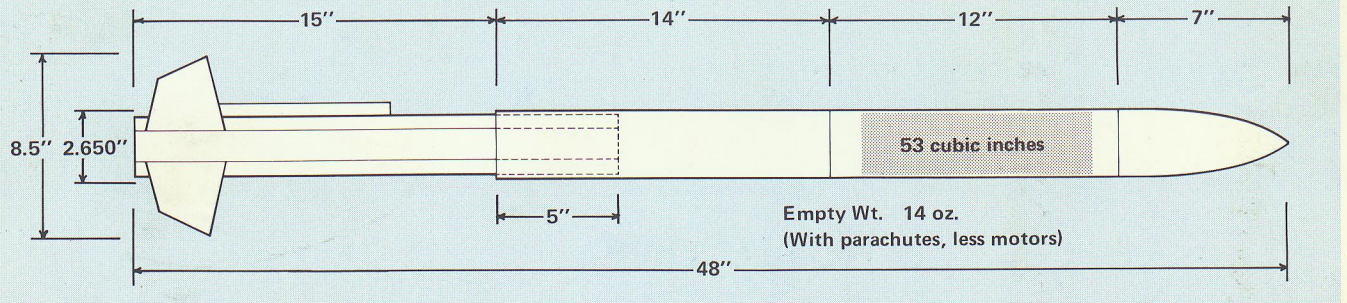
Form SLCo. Production C

DIETZGEN-POST CLEARPRINT 1000H-6 FORM 201

FORM NO. 221

ON

2650 SPECIFICATIONS



Essential Information

MOTOR ADAPTABILITY

The 2650 is adapted to all Enerjet Rocket Motors of 1.125" diameter. These motors offer a range of performance varying from 9 pound seconds to over 40. As the 2650 requires a three motor cluster, clusters must be motors of the same type.

AIR FRAME MATERIALS

The 2650 is completely non-metallic. Materials are wood or plastic and heavy wall pre-colored spiral wound cardboard and glassine tubing, all contributing to the vehicles economy, great safety characteristics, and overall light weight. Every ounce trimmed from the rocket itself is saved for payload. The 2650 can loft payloads exceeding its own weight. The 2650 is easily waterproofed for foul weather launching by spraying the finished model with clear acrylic.

ASSEMBLED OR IN KIT FORM

For greater economy and ease of shipping the 2650 is offered in simple kit form. The rocket is easily and quickly assembled and no modeling experience is required. Special orders for pre-assembled rockets can be arranged. Please inquire for details.

NECESSARY SUPPORT EQUIPMENT

The 2650 requires a more substantial launcher than the lighter 1340 rocket. See separate sheet for details. Launcher should be positioned on a level terrain or truck bed for stability; no shelters or bunkers are required for launching. The system is hand-portable for two man crew.

LAUNCH CONDITIONS

Rockets should be launched from a large open area, preferably over 800' on side, clear of overhead power lines. Choose a clear day with little or no wind. Check for aircraft overhead before launching. Trees or tall grass will make recovery more difficult, likewise nearby lakes or bodies of water. Avoid high winds as rockets will program somewhat into a strong head-wind and will drift considerable distances on their parachutes. The 2650 rocket can stand in the rain for several minutes, much longer when waterproofed though obviously recovery in foul weather conditions is nearly impossible.

RECOVERY OPTIONS

The 2650 vehicle is fully recoverable. Main body and payload sections are recovered by 36" and 24" silk parachutes. For single mission requirements, the 2650 is available with no recovery provisions at reduced cost.

LAWS & REGULATIONS

All Enerjet motors have been tested and safety certified by the U.S. Department of Transportation and the Canadian Department of Energy, Mines and Resources. The FAA should be notified prior to the launch of rockets powered by motors of over 4 oz. propellant weight or liftoff weight exceeding one pound. California requires notification of fire authorities prior to any rocket launching. occasional local ordinances require permits or notification. Beyond these considerations, the 2650 is legal to launch throughout the United States and Canada. If in any doubt, consult your local fire officials.

APPLICATIONS

The 2650 has been designed for a wide variety of applications. Sample applications are: Altitude pollution sampling, cloud seeding, acceleration testing of electronic devices and components, exhaust plume analysis, avalanche control, illuminating and signal flares, radiation sampling rockets, line laying, impact testing of electronic devices and components, chaff dispersion at altitudes up to 8000 feet, material ablation and erosion tests. Coasting dart systems are under development. Our staff is eager to assist you in adapting the 2650 to your special needs or helping you select the configuration most appropriate for your application.

EP-78

Printed in U.S.A.

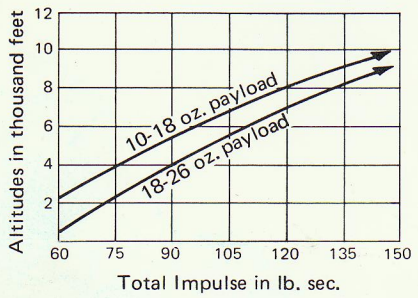
enerjet®

2650™

SOUNDING ROCKET

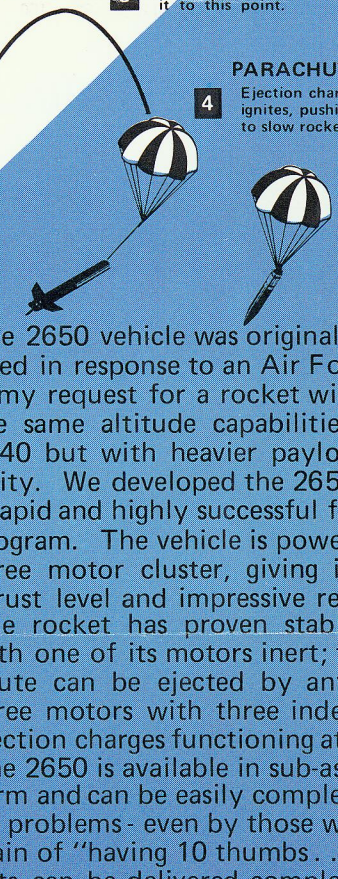
2650™ SOUNDING ROCKET SYSTEM

A practical low-cost vehicle for sounding up to two miles.



This graph represents typical altitudes reached during 2650 qualification flights made over the full range of motors from our test range at 1300 feet above sea level.

2650 CUTAWAY VIEW



HOW THE 2650 SOUNDING ROCKET WORKS

The 2650 vehicle was originally developed in response to an Air Force Academy request for a rocket with about the same altitude capabilities as the 1340 but with heavier payload capability. We developed the 2650 during a rapid and highly successful flight test program. The vehicle is powered by a three motor cluster, giving it a high thrust level and impressive reliability. The rocket has proven stable flown with one of its motors inert; the parachute can be ejected by any of the three motors with three independent ejection charges functioning at apogee The 2650 is available in sub-assembled form and can be easily completed with no problems - even by those who complain of "having 10 thumbs . . ." Rockets can be delivered completely assembled by special arrangement.

(Inquire for information on launch equipment, rocket motors and accessories.)

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