

1/8 MERCURY REDSTONE

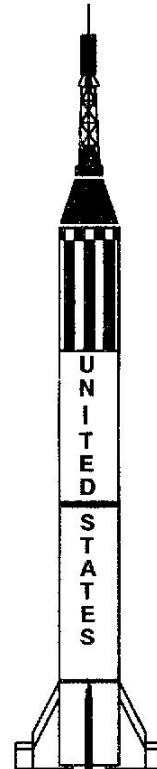
LAUNCH THE ROCKET THAT LAUNCHED AMERICA INTO THE SPACE RACE!

The Mercury Redstone is a giant scale rocket using lightweight construction techniques. The rocket is built similar to a full size rocket or aircraft. There is a basic framework consisting of bulkheads joined with stringers. The framework is then covered with common poster board. The construction is derived from the very successful 1/40 scale Space Shuttle External Tank we designed. The main rocket is built in 4 separate sections that come apart for transport. The capsule is built similar to the rocket, using bulkheads and poster board. The entire rocket is covered with an iron on covering borrowed from the R/C airplane community. It is pre-colored, covers well, and adds considerable strength. The only paint on the entire rocket is the red escape tower. The rocket is not exact scale. The fins have been enlarge slightly, the escape tower is modified slightly to make construction easier, and the capsule does not have the adapter at the aft end as seen in photos of the real thing. Experience the thrill of flying a large rocket without the cost and complexity.

Materials Required

		<u>Est. Cost</u>
1/8 Plywood (Door skins)	Bulkheads	8.00
1/4 X 1/4 X 36 Balsa	Stringers	54 14.00
#6 machine screws and nuts		24 2.00
1/16 X 4 X 36 Balsa	Fins	4 6.00
1/8 Aircraft ply (5 ply)	Fin Plates	6" X 12" 4.00
3/4 Styrofoam sheet	Fin cores	2.00
Poster board (white)	Skin	9 5.40
1/4 X 36 Dowel	Escape Tower	2 1.00
3/8 X 36 Dowel	Escape Tower	2 1.00
2 X 2 X 8 Balsa	Escape nozzles	1 3.00
3.9 Tube		1 3.50
3.9 Coupler	Capsule	1 3.60
39 mm Motor tube		2 8.50
Monokote™	White	2 20.00
Monokote™	Black	1 10.00
Monokote™ Trim	Red	1 4.00

*Prices are estimates only and may not reflect an exact materials list



MERCURY REDSTONE FEATURES

- Spectacular Flights with Slow Realistic Liftoff's on 'H' or 'T' Power
- Unique Lightweight Construction
- Built Easily and Quickly from Locally Available Materials
- 10' Tall, 8.75" Dia. 7 lbs Liftoff wt.
- Timer controlled recovery
- Reserve recovery system designed in for R/C
- Easily built in a few weekends
- Step by step instructions
- A big rocket for a not-so-big budget.

PLAN SET CONTENTS

- Construction Manual
- Video Tape
- Dozens of Color Photos
- Weight and Balance Calculations
- Performance Analysis
- Scale Marking Instructions
- Bulkhead Templates
- Detailed Blueprints

(Price and availability subject to change)

AeroVentures
MAKING DREAMS FLY!

Januart 7, 1997

I would like to thank you for ordering our Mercury-Redstone plans set. I hope it is going well if you are in construction. I wanted to drop you an info sheet for reference and point out a few errors that have been brought to my attention with the manual.

- The F3 bulkheads should have the attachment holes all the way around if you are going to bolt the segments together. The holes showing on F4 don't belong there. It is interesting to see that these are the same holes missing on F3.

- The Reserve parachute was not well explained. The 2 additional 39 mm motor tubes in F5 are for the reserve system. One tube contains the ejection charge and mortar (a piece of closet rod about 3" long). The other tube is the parachute container. I used a 4 ft. parachute that can be seen in the video. If you use this system, be sure to glue a plywood plug in the bottom of the tubes. The tubes stopped just below the lower F5. The reserve system is certainly optional and may be deployed by other methods

These might seem like trivial items but I also wanted to remind you to feel free to give us a call if you have any questions or problems. We would also like any photos or reports you would be willing to share. Thanks again and I hope the new year brings you good luck.

Scott Todd

