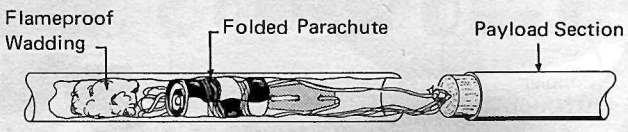
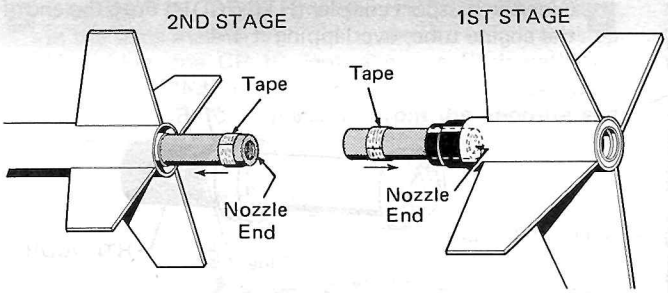
25 Prepare the upper stage by inserting flame proof wadding into the top of the main body. Roll and pack the parachute and shock cord into the body and set the payload capsule in place, (while the parachute is new, it is best to sprinkle it with chute powder to faciliate chute deployment). Insert payload if desired. Do not use more than 1/2 oz. of payload for the first three engine combinations, or more than 1 oz. for the last two (see recommended engines above).

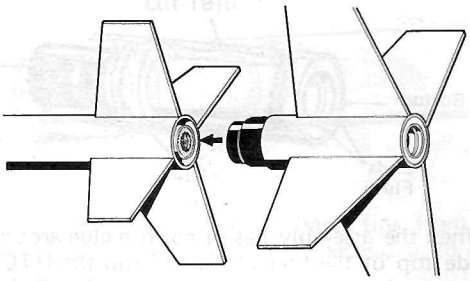


26 Wrap the sustainer (upper stage) engine with masking tape and friction fit into the second stage body. Note, the engine must fit tightly to avoid "kickout" when the parachute ejection charge fires. Friction fit the booster engine into the first stage in the same manner. Make sure you insert the nozzle end first.



27 "Couple" the first and second stages together.

NOTE: When fully prepared, stages must couple together smoothly and snugly. Fit should be tight enough so that 1st stage does not fall out of upper stage by its own weight.



28 After each flight, wipe the exhaust residue off the coupling region with a dry cloth. Look for frayed edges around the forward mounting tube and both coupling tubes. Trim and correct any defects before the next launch.

NOTE: REFER TO THE ENCLOSED TECHNICAL REPORT FOR FURTHER TIPS, BEFORE LAUNCHING.

Launch over soft dirt or grassy area to minimize damage to the tumbling booster.

Launch the Arcon Hi from any standard model rocket launcher having a 1/8" diameter x 36" long steel launch rod.

Referring to the specific instructions which accompany Centuri launchers and firing panels, mount the rocket on the launcher and prepare for ignition. Avoid eye injury by capping the exposed tip of the launch rod when not actually launching! Follow instructions and the Safety Code and have many happy hours with Model Rocketry!



Expended engine makes a handy launch rod cap

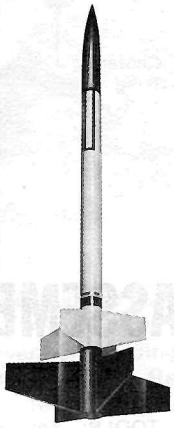
ARCON®-HI

Catalog No. KC-3

The Arcon Hi† is a two stage semi-scaled version of the booster equipped sounding rocket built in 1958 by the Atlantic Research Corp. The rocket was capable of reaching sixty mile altitudes, carrying a forty pound payload.

Centuri's 1/16th semi-scale model can attain 1900 feet carrying 1/2 oz. of payload — a pretty good scale power ratio. Booster tumbles back gently. Put back together and launch many times. Easy-to-assemble kit features big payload capsule and Pass-Port Staging System.*

This rocket is designed to be launched only from standard remote controlled electrical launch systems. Always use the recommened engines and recovery wadding. Comply with all Federal, State and local laws concerning Model Rocketry.



Centuri

MODEL ROCKETEER'S SAFETY CODE

CONSTRUCTION
My model rockets will be made of only lightweight materials such as paper, wood, plastic, and thin metallic foils, with the exception of payloads and engine holders made of wirelike material.

ENGINES
I will use only pre-loaded factory made model rocket engines in the manner recommended by the manufacturer. I will not change in any way nor attempt to reload these engines.

RECOVERY
I will always use a recovery system in my model rockets that will return them safely to the ground so that they may be flown again.

WEIGHT LIMITS
My model rocket will weigh no more than 453 grams (16 oz.) at liftoff, and the engines will contain no more than 113 (4 oz.) of propellant, as prescribed by Federal Regulations.

STABILITY
I will check the stability of my model rockets before their first flight except when launching models of already proven stability.

LAUNCHING SYSTEM
The system I use to launch my rockets will be remotely controlled and electrically operated, and will contain a switch that will return to "off" when released. I will remain at least 10 feet away from any rocket that is being launched.

LAUNCH SAFETY
I will not let anyone approach a model rocket on a launcher until I have made sure that either the safety interlock key has been removed or the battery has been disconnected from my launcher.

LAUNCH AREA
My model rockets will always be launched from a cleared area, free of any easy-to-burn materials, and I will only use non-flammable recovery wadding in my rockets.

BLAST DEFLECTOR
My launcher will have a blast deflector device to prevent the engine exhaust from hitting the ground directly.

LAUNCH ROD
To prevent accidental eye injury I will always place the launcher so the end of the rod is above eye level or cap the end of the rod with my hand when approaching it. I will never place my head or body over the launching rod. When my launcher is not in use I will always store it so that the launch rod is not in an upright position.

POWER LINES
I will never attempt to recover my rocket from a power line or other dangerous places.

LAUNCH TARGETS AND ANGLE
I will not launch rockets so their flight path will carry them against targets on the ground, and will never use an explosive warhead nor a payload that is intended to be flammable. My launching device will always be pointed within 30 degrees of vertical.

PRE-LAUNCH TEST
When conducting research activities with unproven designs or methods, I will, when possible, determine their reliability through pre-launch tests. I will conduct launchings of unproven designs in complete isolation from persons not participating in the actual launching.

FLYING CONDITIONS
I will not launch my model rocket in high winds, near buildings, power lines, tall trees, low flying aircraft or under any conditions which might be dangerous to people or property.

†Registered Trademark of Atlantic Research Corporation of Alexandria, Va.

*Pat. Pending

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