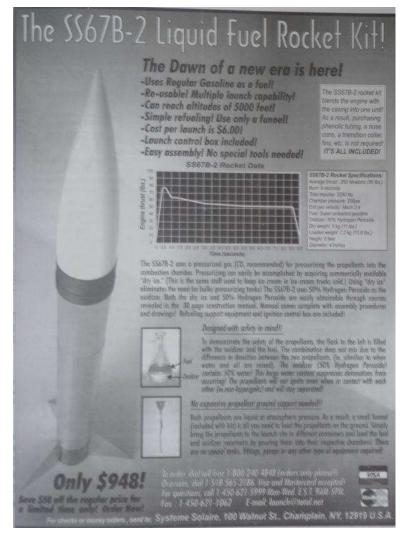
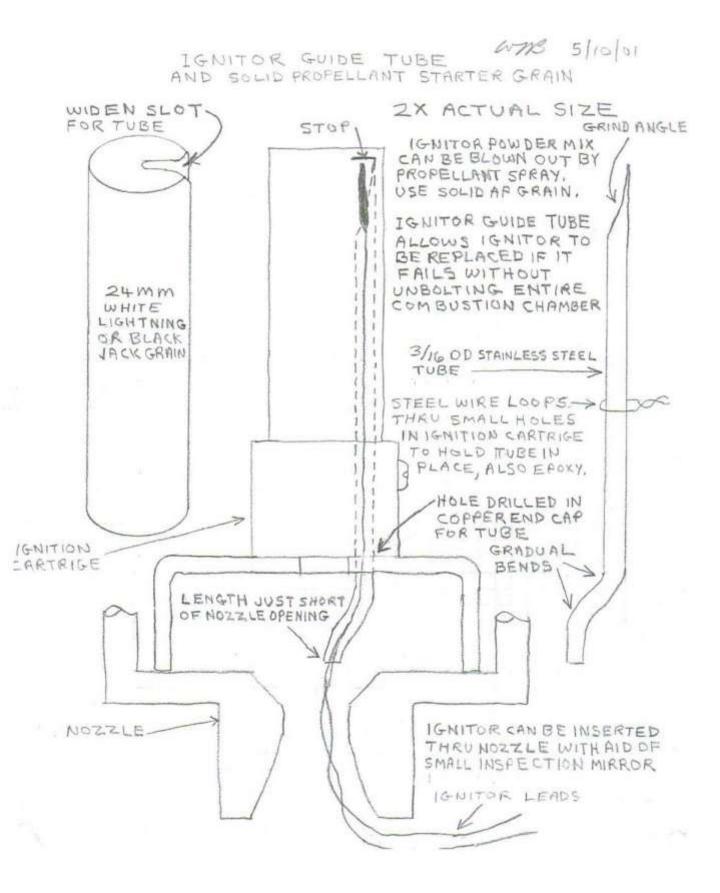
http://pages.total.net/~launch/ss67b3.htm

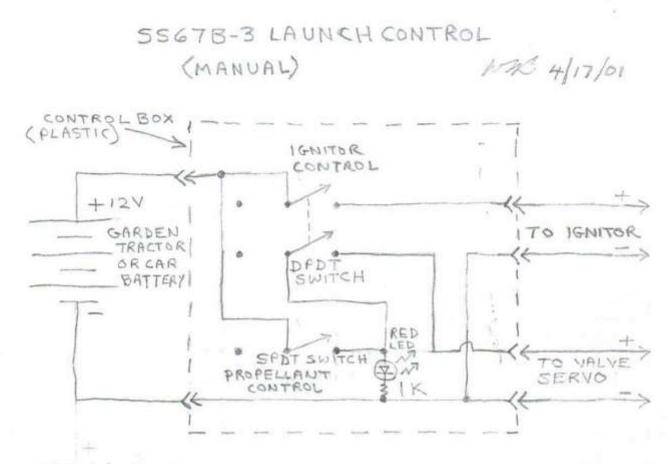


Quite a few years ago, the Tripoli High Powered Rocketry magazine had an advertisement for a liquid fueled rocket offered from a company in Canada.

I had talked with a fellow High Powered rocket member Bill Bowman from the San Diego California prefect Dart about this kit. So we talked about it and bought one.

Bill noticed several issues with it. The following is a brief about the build and the flight results.





A MANUAL LAUNCH CONTROLLER IS NEEDED TO ENSURE ROCKET IS NOT FREMATURELY LAU JCHED IF STARTER GRAIN DOES NOT IGNITE (FAULTY IGNITOR, LOW BATTERY, OR FAULTY WIRING.

CURRENT LAUNCH CONTROLLER RELEASES PROPELLANTS INTO COMBUSTION CHAMBER 3-4 SECONDS AFTER IGNITOR IS SWITCHED ON.

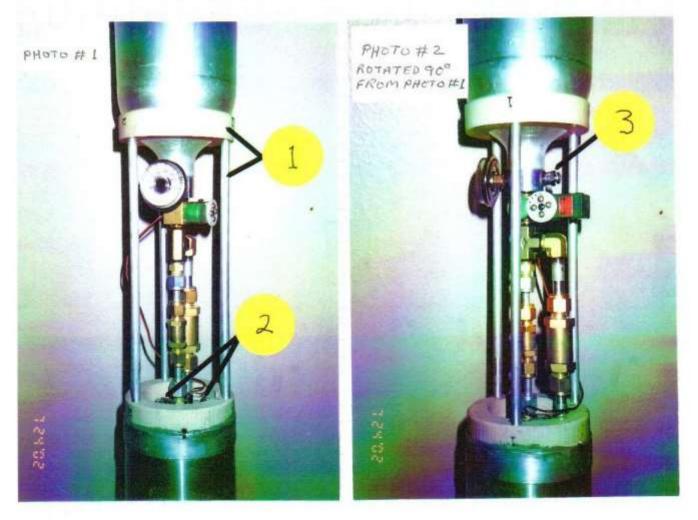
MANUAL SYSTEM GIVES YOU CHANCE TO SEE IF IGNITION OF STARTER GRAIN HAS OCCURRED (WHITE SMOKE) BEFORE RELEASING PROPELLANTS.

RED LED GIVES WARNING NOT TO WIRE UP SYSTEM IF LIT (PROPELLANT CONTROL ENER GIZED)



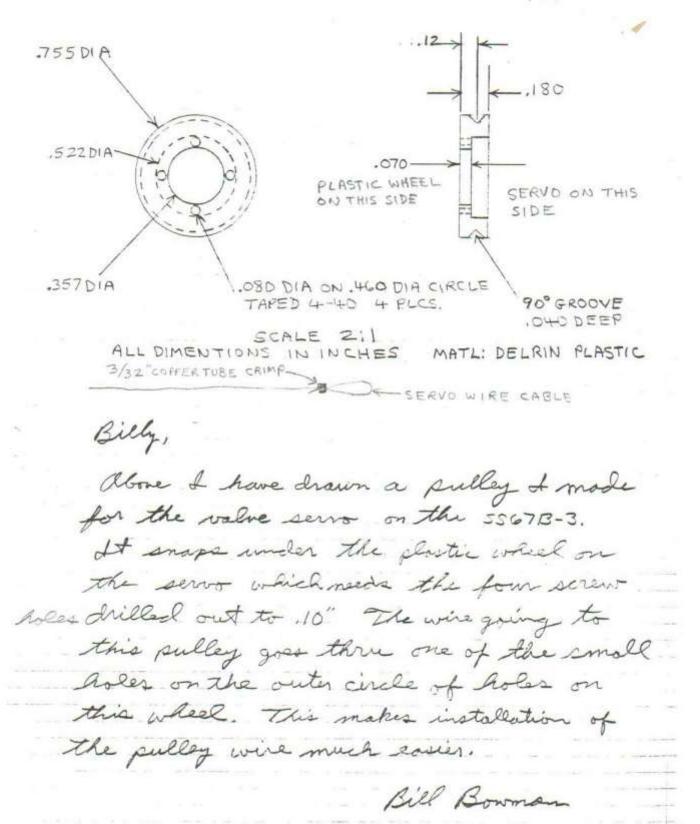
SSGIE I MODS (REFER TO PHOTOS)

- ABOVE THE FRAME THE WHOLE PRESSURE TANK IS SUFFORTED ABOVE THE PROPELLANT TANK ONLY BY THE PLUMBING, THIS MUST SUPPORT ALL GEORGES INCLUDING LANDING SHOCK, I BUILT A THRUST FRAME TO WITH MOLDED PLASTIC RINGS AND 3 THICK WALL ALUMINUM TUBESFOR EXTRA STRENGTH.
- 2. FUELING PORTS WITH PLUGS NO PROVISION WAS PROVIDED FOR EASY AND BAFE FUELING OF THIS ROCKET. I ADDED 2 FUELING PORTS FOR GASOLINE AND H202 WITH THREADED BRASS PLUGS. (COAT THREADS WITH SEPTEMENT)
- 3. THIS ROCKET MOTOR DOES NOT HAVE AN OVER PRESSURE SAFETY VALVE. THE WHOLE PRESSURE TANK MUST BE UNSCREWED TO RELIEVE PRESSURE IN AN EMERGENCY. I ADDED A THREAD IN, AUSH TO RELEASE PRESSURE, VALVE. SKU# 340008

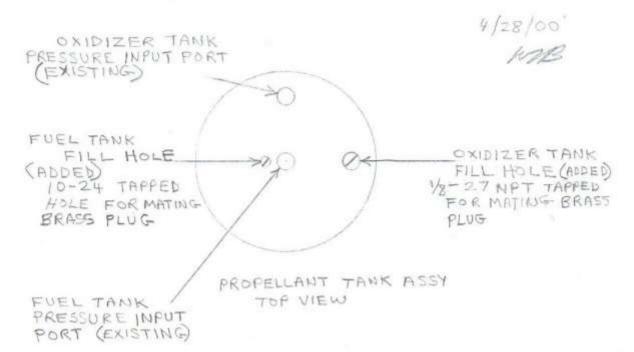


SERVO PULLEY

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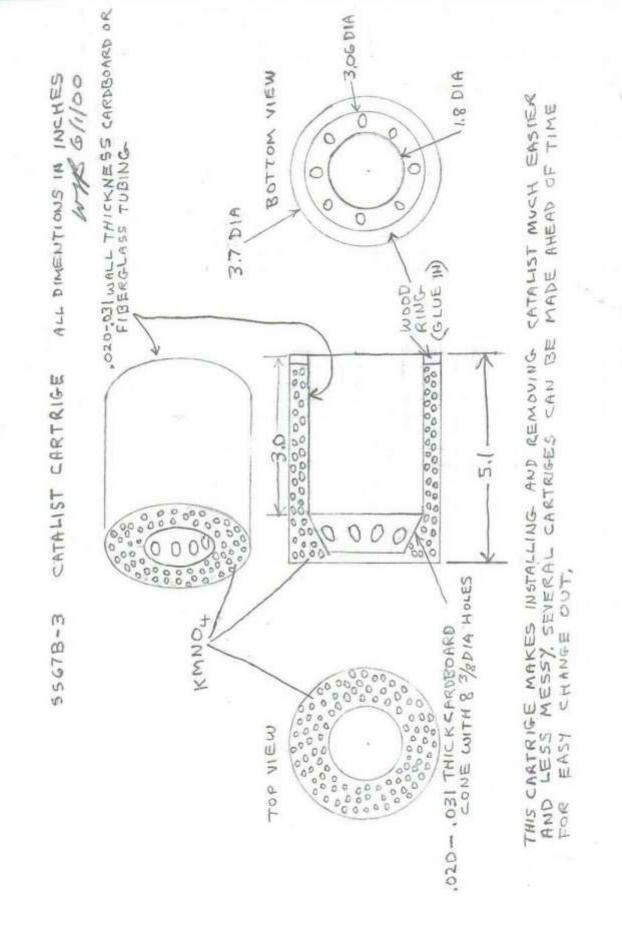


PROPELLANT TANK MODIFICATIONS



ADDITIONAL PORTS FOR FUEL AND OXIDIZER FILLING OF PROPELLANT TANK ASSY. ARE NEEDED, THIS IS SO THAT FEED LINES FOR COZPRESSURE DO NOT HAVE TO BE DISCONNECTED/ RECONNECTED FOR EACH FUELING.

THREADS ON EACH SCREW IN PLUGS SHOULD BE COATED WITH SEALANT TO ENSURE PRESSURE TIGHT FIT.







These are photos of the very first launch of the liquid fueled rocket. You will notice that it is just purple smoke. This is from the Potassium permanganate and 50% hydrogen peroxide. The solid fuel grain igniter never lit, so the 7 ounces of unleaded fuel was never lit. Even though that did not occur, there was enough thrust to get the rocket up to almost 200 feet.

There was a magnetic deployment recovery system in the rocket to help with parachute deployment, however, the rocket is tail heavy. In order for the magnetic sensor to have worked, the rocket is suppose to nose over at a more than 20 degree angle, That never happened. The rocket landed hard, but there was minor damage and the rocket was repaired and prepped for another launch in the future.