

Benjis Hardwired Logic...

...is a set of five tools to predefine staging actions in your rocket.

Launch Clamps release after a set delay (when the main engine is spooled up).

Fairings can automatically be jettisoned at a given altitude.

RCS and Decoupler can be activated at a set time after launch or prior to reaching Apogee.

- Engines can ignite at a set time after launch or prior to reaching Apogee. An engine can also be cut when a set Apogee is reached. An Apogee Kick Motor can either Burn-Out, Circularize or Cut-Off at a set Apogee.

On-Screen appearing messages for all events can be turned on / off (in VAB and Flight).

A picture says more than a thousand words.

Just check out these awesome flowcharts and the example on the last page.

Launch Clamp

Delay [sec]
0 ... 59.9

Fairing Separator

Altitude [km]
0 ... 200

Jettison
Payload
Interstage

Delayed RCS

Delay Mode

Post Launch

Pre Apogee

Delay [sec]
0 ... 59.9
Delay [min]
0 ... 30

Delayed Igniter

Delay Mode



Cut @Apogee
Yes / No

Apogee [km]
70 ... 450.000

Delay [sec]
0 ... 59.9
Delay [min]
0 ... 30

Engine

1st Stage
2nd Stage
3rd Stage
4th Stage
Booster
Separation-Motor
Spin-Motor
Ullage-Motor

Apogee Kick Stage

Kick Stage Mode

Burn-Out
Circularize

Cut-Off

Apogee [km]
70 ... 450.000

Delayed Decoupler

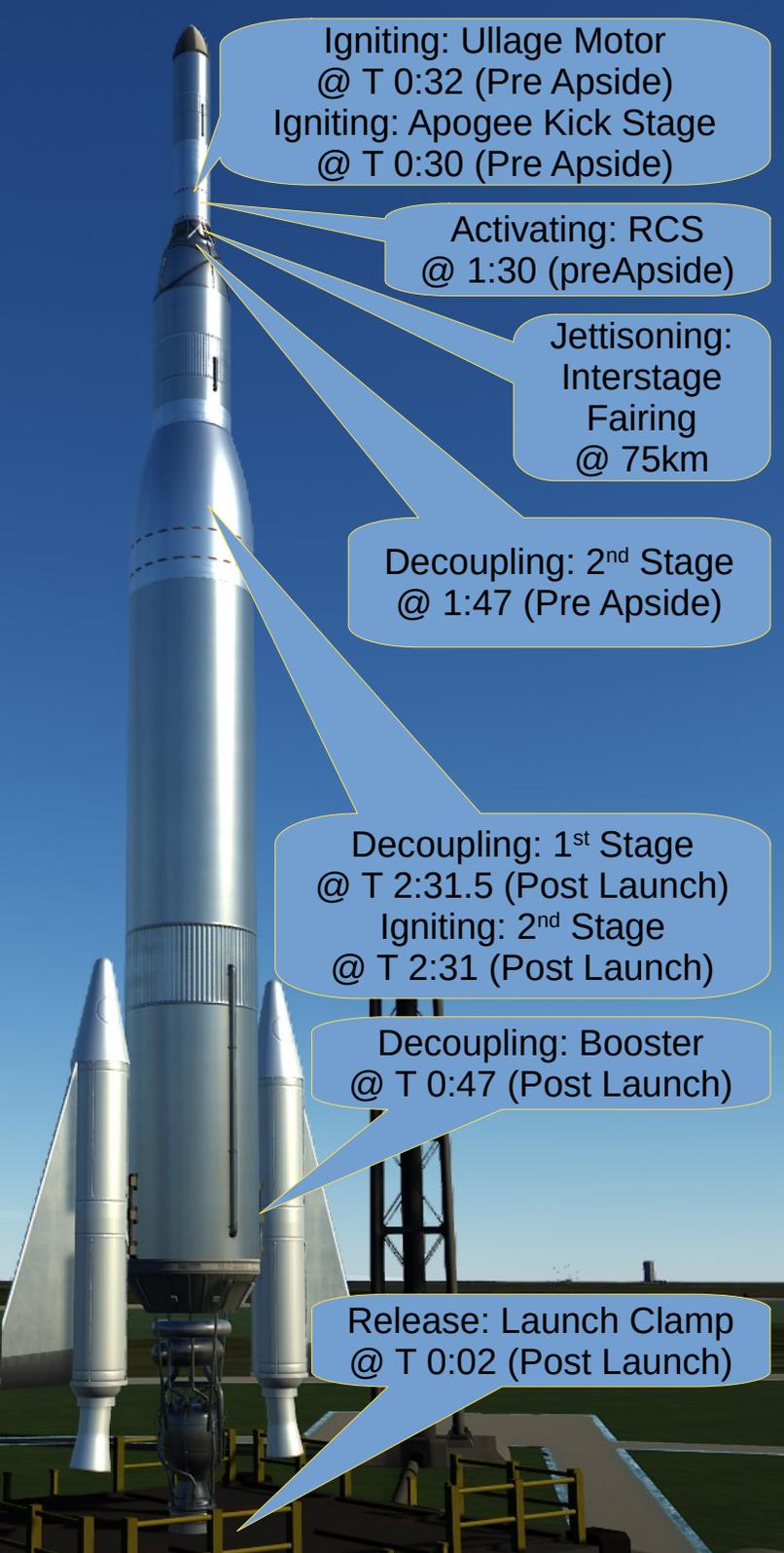
Delay Mode



Delay [sec]
0 ... 59.9
Delay [min]
0 ... 30

Decouple

1st Stage
2nd Stage
3rd Stage
4th Stage
Booster
Spin-Motor
Ullage-Motor
Apogee Kick Stage
Payload



Igniting: Ullage Motor
@ T 0:32 (Pre Apside)
Igniting: Apogee Kick Stage
@ T 0:30 (Pre Apside)

Activating: RCS
@ 1:30 (preAp side)

Jettisoning:
Interstage
Fairing
@ 75km

Decoupling: 2nd Stage
@ 1:47 (Pre Ap side)

Decoupling: 1st Stage
@ T 2:31.5 (Post Launch)
Igniting: 2nd Stage
@ T 2:31 (Post Launch)

Decoupling: Booster
@ T 0:47 (Post Launch)

Release: Launch Clamp
@ T 0:02 (Post Launch)

