

WITHOUT MISSION A BEAT

PRESS KIT | NET 1 APRIL UTC

Rocket Lab USA, Inc.
rocketlabusa.com



MISSION OVERVIEW

ABOUT 'WITHOUT MISSION A BEAT'

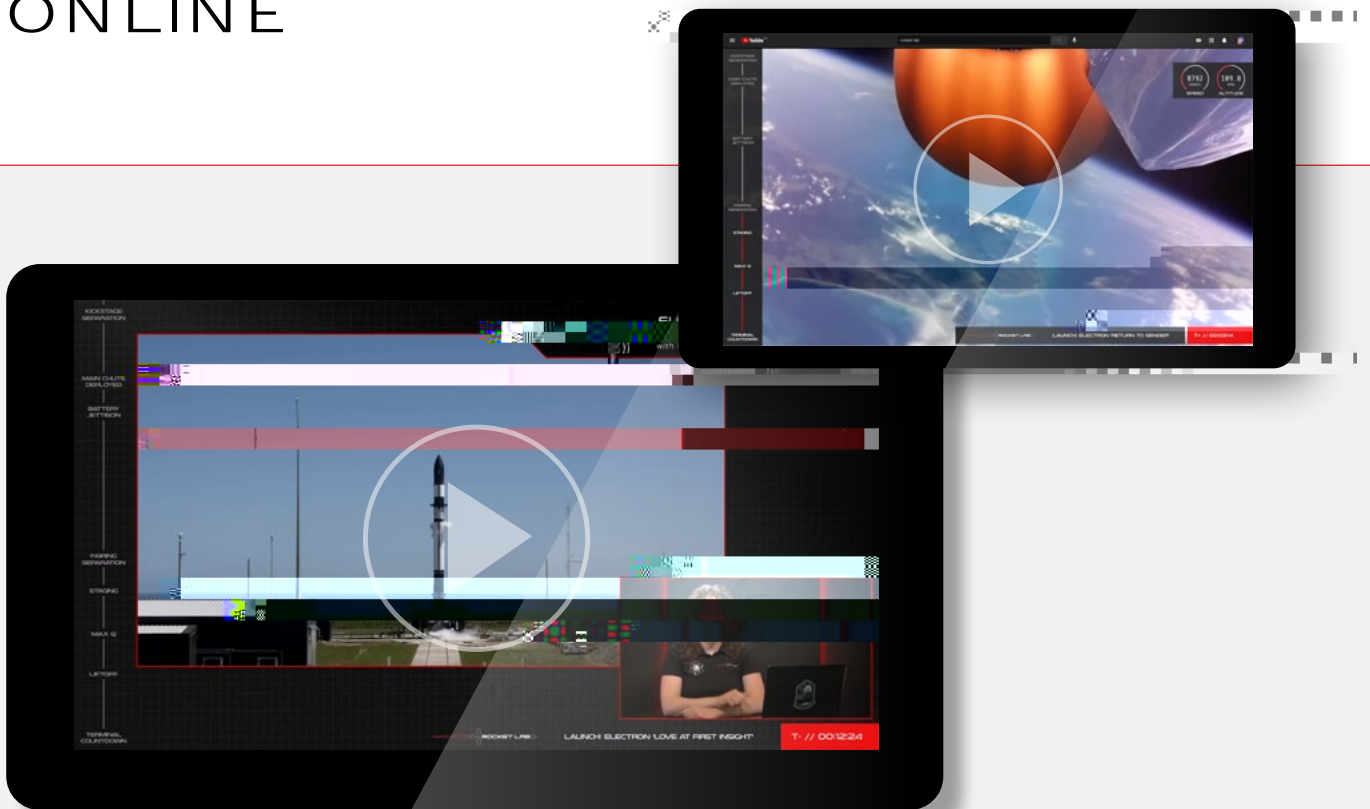
Launching from Rocket Lab Launch Complex 1 on New Zealand's Mahia Peninsula, the 'Without Mission A Beat' mission will be Rocket Lab's 25th Electron launch.



Rocket Lab is scheduled to launch the "Without Mission A Beat" mission from Rocket Lab Launch Complex 1 Pad A during a launch window that opens April 1 2022 UTC. "Without Mission A Beat" will carry a pair of BlackSky rapid-revisit, high-resolution Earth-imaging satellites to low Earth orbit, which will expand BlackSky's constellation to 14 satellites. Rocket Lab has delivered the majority of BlackSky's constellation to orbit on Electron missions since 2019.

"Without Mission A Beat" will be Rocket Lab's 25th Electron launch and will bring the total number of satellites launched by the company to 112. Rocket Lab will not be attempting to recover Electron for this mission.

VIEWING A LAUNCH ONLINE



LIVE STREAM LINKS

The livestream is viewable at:

rocketlabusa.com/live-stream

Webcast will be live approx. T-20 minutes

LAUNCH FOOTAGE & IMAGES

Images and footage of the 'Without Mission A Beat' launch will be available shortly after a successful mission at:

www.rocketlabusa.com/about-us/updates/link-to-rocket-lab-imagery-and-video

UPDATES

For information on launch day visit:

rocketlabusa.com/next-mission

FOLLOW ROCKET LAB:

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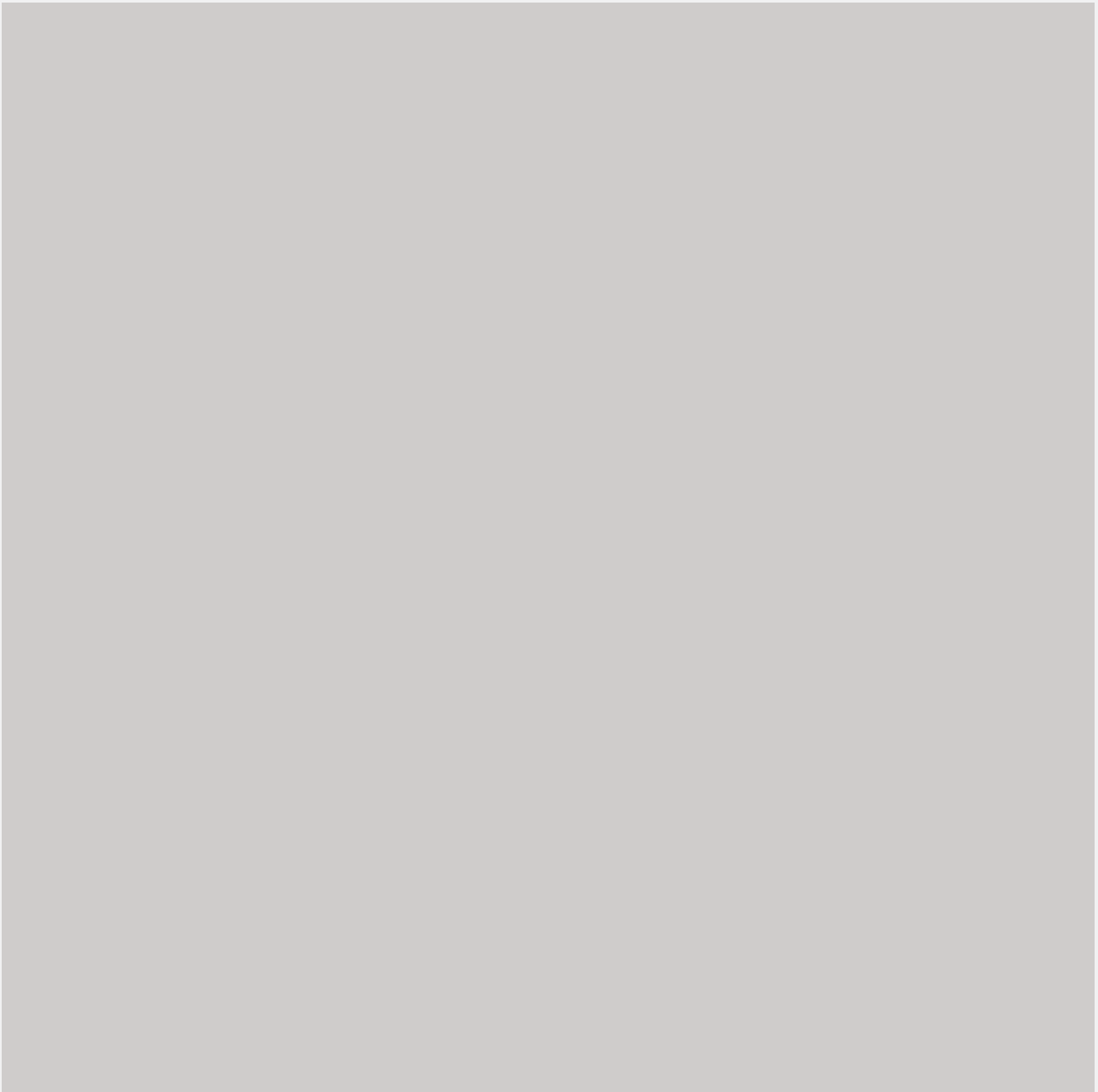
 facebook.com/RocketLabUSA

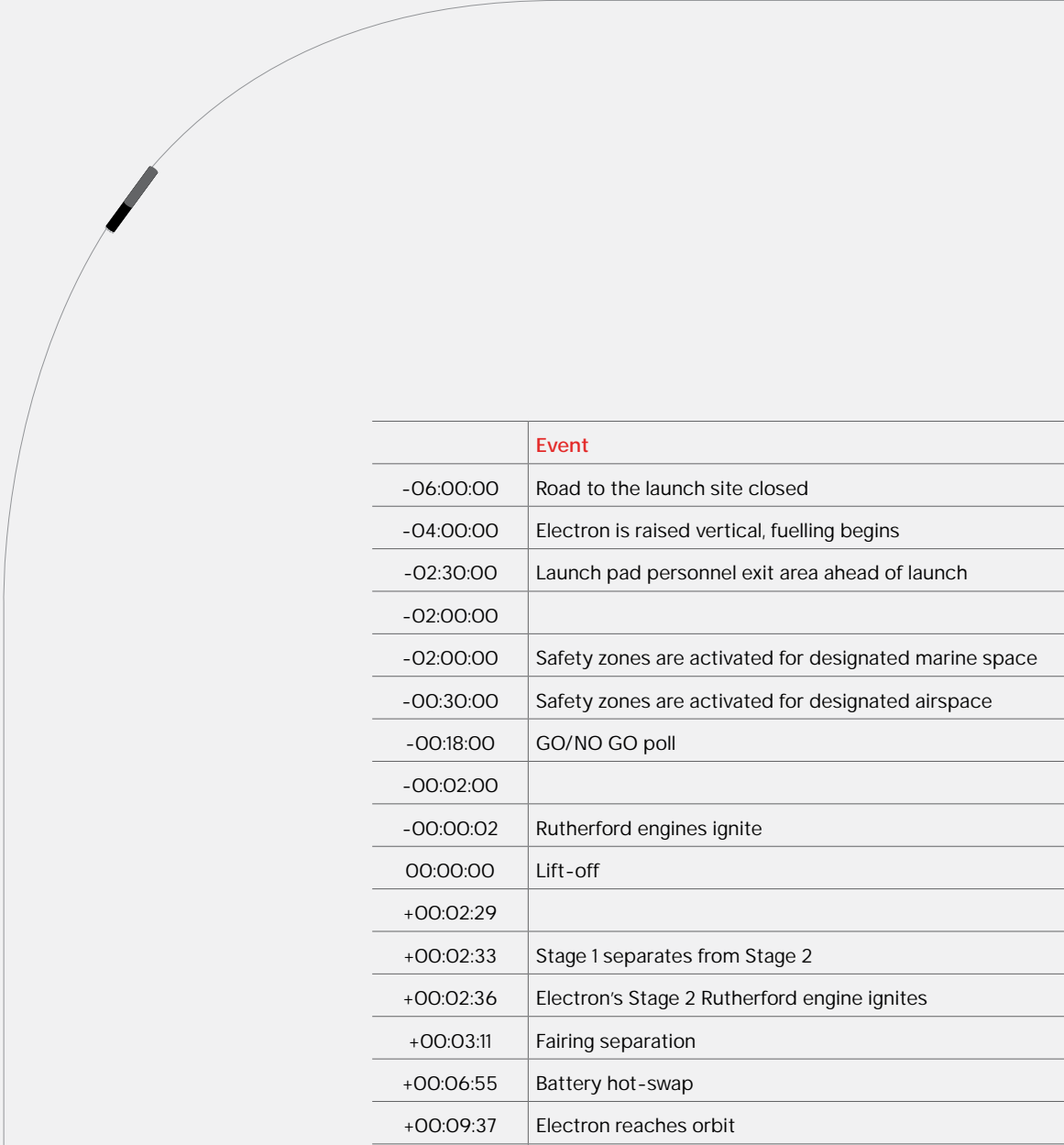
Location

Wairoa District Council has allocated a rocket launch viewing area for the public near Nuhaka, accessible via Blucks Pit Road. Scrubs and postponements are likely during launch windows, so visitors to the Blucks Pit viewing site should anticipate multiple postponements, sometimes across several days.

More information visit

www.visitwairoa.co.nz/welcome-to-wairoa/space-coast-new-zealand





	Event
-06:00:00	Road to the launch site closed
-04:00:00	Electron is raised vertical, fuelling begins
-02:30:00	Launch pad personnel exit area ahead of launch
-02:00:00	
-02:00:00	Safety zones are activated for designated marine space
-00:30:00	Safety zones are activated for designated airspace
-00:18:00	GO/NO GO poll
-00:02:00	
-00:00:02	Rutherford engines ignite
00:00:00	Lift-off
+00:02:29	
+00:02:33	Stage 1 separates from Stage 2
+00:02:36	Electron's Stage 2 Rutherford engine ignites
+00:03:11	Fairing separation
+00:06:55	Battery hot-swap
+00:09:37	Electron reaches orbit
+00:09:45	Stage 2 separation from Kick Stage
+00:51:10	Kick Stage Curie engine ignition
+00:52:52	Curie engine Cut Off
~+01:00:00	BlackSky payloads deployed

OVERALL

LENGTH

18m

DIAMETER (MAX)

1.2m

STAGES

2 + Kick Stage

VEHICLE MASS (LIFT-OFF)

13,000kg

MATERIAL/STRUCTURE

PROPELLANT

LOX/Kerosene

PAYLOAD

NOMINAL PAYLOAD

200kg / 440lbm To 500km SSO

FAIRING DIAMETER

1.2m

FAIRING HEIGHT

2.5m

FAIRING SEP SYSTEM

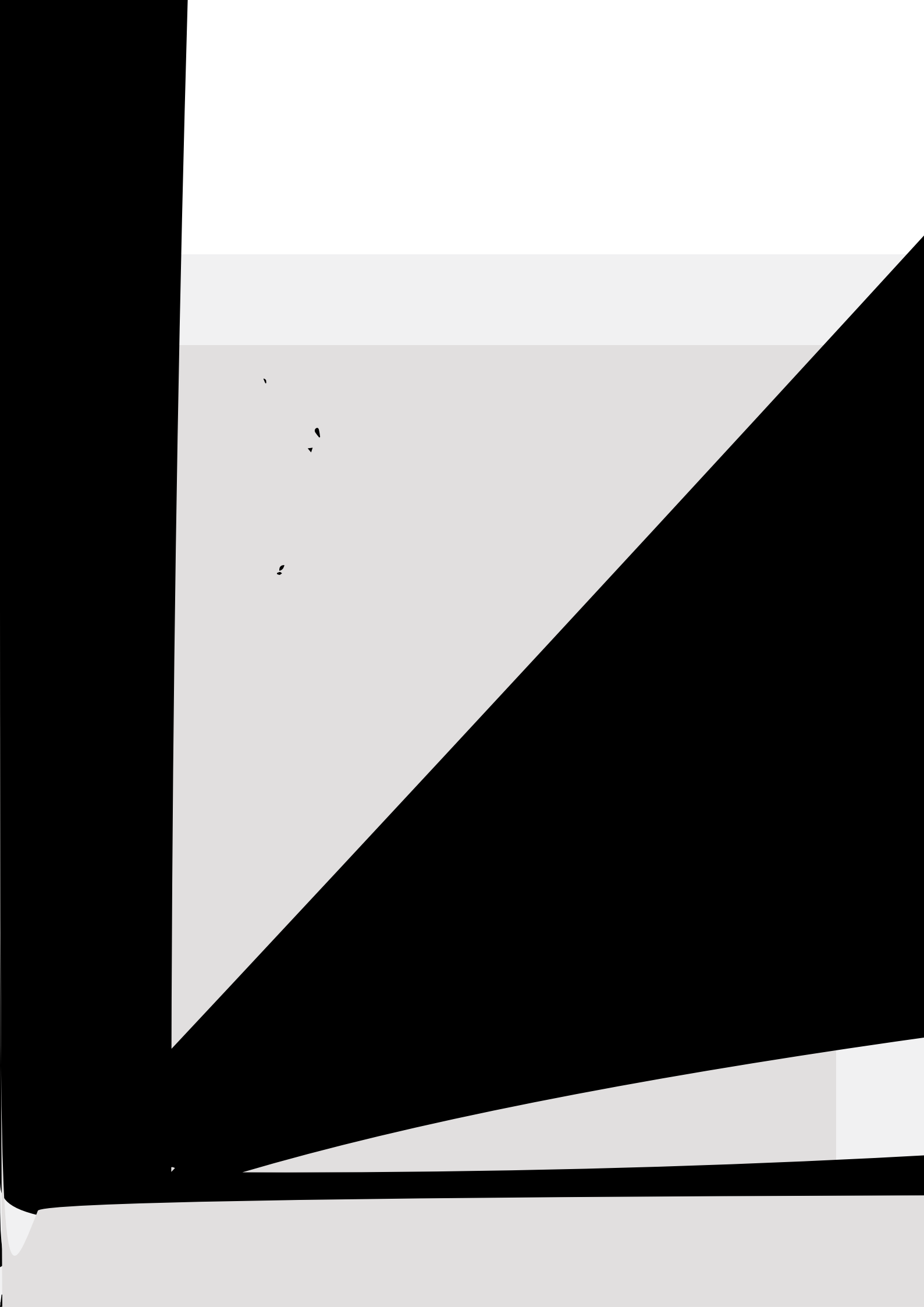
Pneumatic Unlocking, Springs

STAGE 2


PROPULSION

1x Rutherford Vacuum Engine





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