

Nose mounted altimeter sled with integrated pull pin switch



Legendontour

[VIEW IN BROWSER](#)

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Summary

An all in one solution to mount a Bear Altimeter AltiUno with a 200mAh limo, with an integrated pull pin switch



2.12 hrs



1 pcs



0.20 mm



0.40 mm



PET



14 g



Prusa
MK3/S/S+

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Tags: [altimeter](#) [hpr](#) [highpowerrocketry](#) [altimetermount](#)
[avbay](#) [highpowerrocket](#)

An all in one nose cone mounted AV bay to house an apogee deployment altimeter for high or mid power model rocketry.

I have used a [Bear Atimeters AltiUno](#)

I have paired it with 2s 200mah Lipo battery

The sled features 2mm guide holes for the electric match wires to be connected direct to the altimeter.

The altimeter is designed to be mounted to a nose cone base via a 5mm locknut and 5mm eye hook to secure.

The base of the mount features an integrated pull pin switch housing for a SS-5GL micro switch. I have a separate model for the [housing files](#).

A 2mm pull pin is used to keep the switch open.

The +ve battery lead is soldered to the 2 outer pins - CO(common) and NC(normally closed)

When the pin is removed the altimeter powers up.

With appropriate holes drilled in the nose cone, this can allow the altimeter to remain powered off until on the launch rail.

Printed in PETG, 3 perimeters, 0.2mm layers, 0.4mm nozzle.

Could also be printed in nylon.

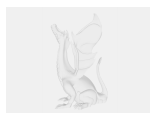
I find PLA/PLA+ and PC to be too brittle for rocketry.

Edit 13/7/23 - after a slightly rough landing my petg sled showed some stress lines at the base, so I beefed up the attachment of the base to then sled.

Model files



altiuno-nose-sled-pull-switch.3mf



altiuno-nose-sled-pull-switch.step



altiuno-nose-sled-pull-switch.stl



altiuno-nose-sled-pull-switch-v2.step



altiuno-nose-sled-pull-switch-v2.3mf



altiuno-nose-sled-pull-switch-v2.stl

Print files



pretty-petg_altiuno-nose-sled-pull-switch.gcode

 PET  0.40 mm  0.20 mm  2.12 hrs  14 g  Prusa MK3/S/S+

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