

Kryptonite Lock Mount for City Electric Scooters



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Summary

Attaches a Kryptonite "New York Fahgettaboudit Mini" U-Lock to the handlebar stem of several city e-scooter models.

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Attaches a Kryptonite "New York Fahgettaboudit Mini" U-Lock to the handlebar stem of several city e-scooter models.

This model is compatible with T9/T10 city-style scooters manufactured by a company called Titan/Unicool. That includes scooters from several popular brands, including (but not limited to):

- Apollo City (original pre-2022 model)
- IO Hawk Collide
- Falcon Zero 10
- Turbowheel Dart

The lock crossbar sits in the large semicircular cradle, then the U is inserted through the holes in the front, securing it in place. It fits quite snugly and does not rattle around while riding. Although the lock is quite heavy, this mounting position does not appreciably change how the scooter rides.

This design has the lock at a 45 degree angle relative to the handlebar stem for compactness. The lock and mount don't extend beyond the folding switch in the back or the headlights in the front.

When mounted as far down as possible, it only covers 1-2cm of the vertical LED strip. This could be reduced even further in a future revision by adding a notch in the back for the cables so it could be lowered even further and/or making a notch in the front for the LEDs to shine through.

Requires 2x M5 screws (I used M5x12, but up to M5x16 should work fine), 2x M5 heat set threaded inserts (mine were "Initeq M5-0.8" with a listed outer radius of 8mm and depth of 6.73mm), and 2x M5 washers if you're feeling fancy.

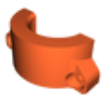
Use a soldering iron to heat up and slowly press-fit the threaded inserts into the larger part, then screw the larger part and smaller part together around the handlebar stem. The design leaves a small amount of space between the two parts; don't overtighten.

I printed both parts in the provided orientation, using Overture black PETG with a 0.6mm nozzle. I recommend supports in the entry holes for the U part of the lock, but everything else should be trivially bridgeable (i.e. the M5 screw holes) or doesn't exceed 45 degrees of overhang.

How I Designed This

This design was made using FreeCAD. You're welcome to study the design or make modifications. I imagine this could be modified to fit a different lock, scooter, or heat-set inserts fairly easily.

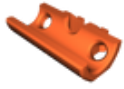
Model files



city-scooter-lock-mount-pt2.stl

city-scooter-lock-mount-pt2.fcstd

city-scooter-lock-mount.fcstd



city-scooter-lock-mount.stl

[Find source .stl files on Thingiverse.com](#)

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