



# Electric Tow Bar for Planes



Brankly

VIEW IN BROWSER

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## Summary

This is a DIY battery-driven electric tow bar for small planes. The commercial ones cost way to much and this one you...

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Tags: [plane](#) [airplane](#) [cessna](#) [towbar](#)

This is a DIY battery-driven electric tow bar for small planes.

The commercial ones cost way to much and this one you can build for under \$150 USD.

The first part of the build you can watch here: <https://www.youtube.com/watch?v=7iESRna7VRM&feature=youtu.be>

Part two: [https://youtu.be/R\\_9C7Bg1PNQ](https://youtu.be/R_9C7Bg1PNQ)

I will upload the other videos in a couple of days.

## Other 3D files used:

Battery Mount: <https://www.thingiverse.com/thing:352094>

## Parts used:

Tow Bar: <https://goo.gl/DbzrS6>

Relay (two needed): <https://amzn.to/2U8InPn>

Voltage Regulator: <https://amzn.to/2BXWgJb>

Wheels: <https://www.harborfreight.com/5-in-polyurethane-heavy-duty-swivel-caster-61758.html>

Push Buttons: <https://amzn.to/2tE3nlq>

Hose Clamps: <https://amzn.to/2VpYvfN>

LEDs: <https://amzn.to/2SunZXg>

Resistor Kit: <https://amzn.to/2Ef0MmU>

Power Switch: <https://amzn.to/2H2KQaw>

Power Wire 12 gauge: <https://amzn.to/2SyKpqq>

Connectors XT60: <https://amzn.to/2BU5XbA>

Heat Shrink Tubes: <https://amzn.to/2Xt8EKa>

M8 Threaded Rods: <https://amzn.to/2BU7pup>

Metric Nuts Kit: <https://amzn.to/2Vpumxc>

Metric Screw Kit: <https://amzn.to/2H6xYQz>

3D Printer: <https://shop.prusa3d.com/en/3d-printers/181-original-prusa-i3-mk3-3d-printer.html>

Motor(s): <https://goo.gl/Ktn8AE>

Cable Sleeving: <https://amzn.to/2H5XPYL>

Battery: <https://amzn.to/2H2Ly7G>

Battery Connector: <https://www.ereplacementparts.com/terminal-p-719473.html>

Crimp Terminal Connectors: <https://amzn.to/2H5YoBR>

Rubber Grommet Set: <https://amzn.to/2SteSWK>

Cable Ties: <https://amzn.to/2tGibA6>

## Other DIY tow bars:

<http://www.csobeech.com/CSOB-towbar.html>

## Print Settings

### Printer Brand:

Prusa

### Printer:

i3 MK3

### Rafts:

Doesn't Matter

### Supports:

Doesn't Matter

### Resolution:

0.3

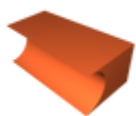
### Infill:

92%

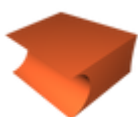
**Filament:** [Amazon](#) Basic PETG

Category: DIY

## Model files



spacer\_small\_v1.stl



spacer\_big\_v1.stl

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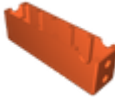
**motor\_mount\_v1.stl**

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**control\_box\_top\_v1.stl**

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**control\_box\_bottom\_v1.stl**

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**battery\_support\_v1.stl**

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**drive\_roll\_v1.stl**

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**axis\_reducer\_v1.stl**

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

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