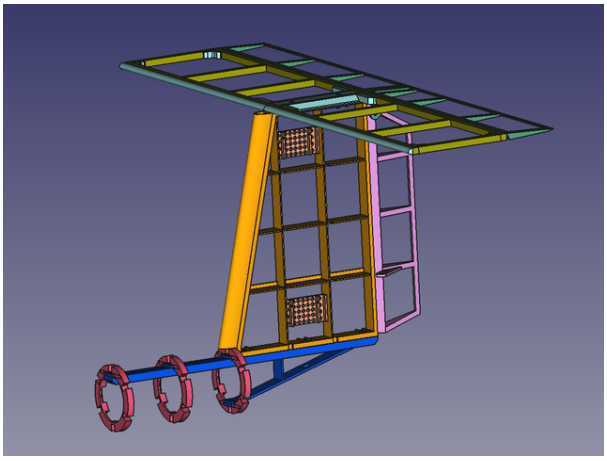

Modular RC airplane - Tail section

HD_Creator

VIEW IN BROWSER

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Summary

The modular RC model airplane is a collection of parts and sections for a homemade remote controlled model aircraft.

15.05 hrs	10 pcs	0.15 mm 0.20 mm	0.40 mm	PET	112 g	Prusa MK3/S/S+

Hobby & Makers > RC & Robotics

Tags: rc rcairplane rcairplaneparts

The modular RC model airplane is a collection of parts and sections for a homemade remote controlled model aircraft. It is for people that want to build their own experimental RC airplane, printing all essential parts on a 3D printer. It is NOT a completely printed RC model. The parts released are mainly for the skeleton of the plane, which needs to be covered with iron-on foil (e.g. Ora light material). In addition to the printed parts you will need 8x8mm square spares for the wings, some 3x0.5mm carbon fiber rods for the edges of the wings and a handful of 5x5mm wooden strips for the fuselage and the horizontal stabilizer.

This publication here is about the tail section of the plane, which consists of the bar that connects the tail section to the fuselage, the vertical stabilizer, the horizontal stabilizer, the servo mounts, the rudder and the elevator. Together these parts form the complete tail section.

Print instructions

All parts are printed in PETG with no supports. Most parts where printed on a Prusa i3 Mk3S, but some on a Ender 3 Pro. I recommend against using my .gcode files directly, as they may not fit to your printer or to your material. I have uploaded them for reference and for print time, material usage information etc.

My strong advise would be to use the .stl files and slice them in Prusaslicer in accordance with your material and printer.

Model files

servo-mounts-for-rudder-and-elevator.stl

rudder-_v018.stl

elevator-left-half-_v017.stl

elevator-right-half-_v018.stl

vertical-stabilizer-front-edge-profile-_v015.stl

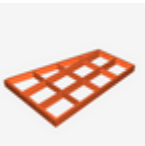
tail-section-connector-to-fuselage-_v013.stl

fuselage-frame-with-two-flats-for-tail-section-co.stl

horizontal-stabilizer-nose-edge-profile-_v010.stl

glue-on-brackets-for-wodden-strips-_v010.stl

horizontal-stabilizer-central-part-_v010.stl



vertical-stabilizer-_v021.stl

Print files

seitenruder-mit-ruderhorn-_v018_015mm_petg_mk3s.gcode

PET 0.40 mm 0.15 mm 1.69 hrs 12 g Prusa MK3/S/S+

hoehenruderservobrettchen-_v021_x2_015mm_petg_m.gcode

PET 0.40 mm 0.15 mm 0.89 hrs 4 g Prusa MK3/S/S+

hoehenruder-links-mit-ruderhorn-_v017_015mm__22.gcode

PET | 0.40 mm | 0.15 mm | 1.16 hrs | 8 g | Prusa MK3/S/S+

hoehenruderservobrettchen-_v021_x2_015mm_petg_m.gcode

PET | 0.40 mm | 0.15 mm | 0.89 hrs | 4 g | Prusa MK3/S/S+

seitenleitwerksvorderkantenprofil-_v015_015mm_p.gcode

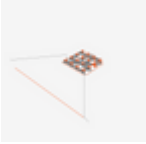
PET | 0.40 mm | 0.15 mm | 1.06 hrs | 7 g | Prusa MK3/S/S+

leitwerksgrundtraeger-mit-schragstuetze-_v013-u.gcode

PET | 0.40 mm | 0.20 mm | 2.34 hrs | 23 g | Prusa MK3/S/S+

hoehenleitwerk-nasenrundleiste-x2-_v010_015mm_p.gcode

PET | 0.40 mm | 0.15 mm | 0.94 hrs | 7 g | Prusa MK3/S/S+



holzleistenverbindewinkel-_v010_16x_02mm_petg_e.gcode

PET | 0.40 mm | 0.20 mm | 0.84 hrs | 5 g | Creality Ender-3

hoehenleitewerk-halteplatte-_v010_02mm_petg_mk3.gcode

PET | 0.40 mm | 0.20 mm | 0.69 hrs | 9 g | Prusa MK3/S/S+

seitenleitwerk-grundgeruest-_v021_015mm_petg_mk.gcode

PET | 0.40 mm | 0.15 mm | 4.55 hrs | 33 g | Prusa MK3/S/S+

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