

Electric Shock Flyer setup for FrSky Taranis v4

This setup should work great on any simple 4 function shock flyer with a single servo for ailerons (Hyperion Sniper, RC Factory series, Telink series etc) - I use it on my RC Factory Sbach 342:



Two EEPes are included - one has stall turn/hammerhead and blender switch cascades, & one does not.

Features:

- 2 automatically switched flight modes (Acro and Acro 3D):
 - Auto 3D rates –The flight mode (and associated rates) are changed when any of the three direction controls (aileron, elevator or rudder) reach 97% of TX stick travel. This is achieved via a cascade of OR custom switches (switches CS1-CS5).
 - The rates for each surface are set using GVARs 1-3.
 - Auto 3D rates can be suppressed by switch SD.
 - Auto 3D rates give extremely large movements at each end of the stick with smooth, progressive control from centre to 97%. I find that achieving this without very high expo settings means slow rolling manoeuvres are easier to execute consistently, but still maintains extreme 3D abilities without flicking a switch
- Stall turn / Hammerhead switch cascade (*Model memory 2 only*) – In Acro flight mode full rudder will cause a blip of throttle to get you round the turn (switches CS3 and CS7-CSA), and will not reactivate for a period of your choosing. For more detail [click here](#).
- Blender switch cascade (*Model memory 2 only*) – Throttle can be blipped automatically to help snap the model into a blender based on stick positions (switches CSC-CSK). For more detail [click here](#).
- Throttle kill on switch SF with pre-flight check reminder.
- Custom throttle curve to remove non-linear ESC response (will need to be tuned for each model).
- Flight countdown timer (reset by throttle kill on switch SF) and total model time timer.
- Flight time remaining called out by short press of switch SH.
- RSSI value called out by long press of switch SH.
- Audio volume adjustable via pot S2.
- Model name announcement on start-up/selection.

All changes are confirmed verbally when activated, and the sound files used are attached within the Zip file – simply paste them into the “Sounds/en” folder on your Taranis.

Important note – *This EEPROM is mode 1 and uncalibrated*. To ensure it works perfectly on your Taranis open the EEPE file in companion9X, copy the relevant model memory to a spare slot in your live calibrated EEPE, then burn that to your transmitter. Happy flying!

Matt Brett, Jan 2014

Pre-flight checks / Disclaimer - Although this setup has been tested, it is up to the pilot to ensure all controls respond correctly under all conditions. I cannot be held responsible for any bugs in the setup or documentation, so please remember to test your model setup thoroughly before flying!