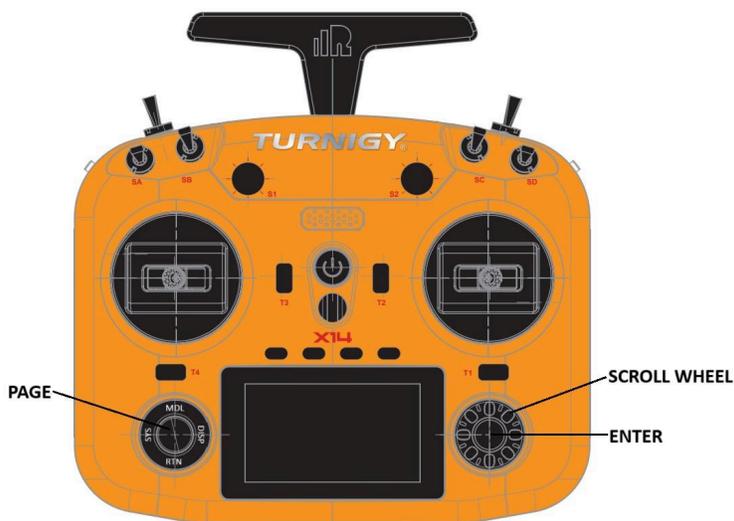


Turnigy X14 Quick Start Guide



Thank you for purchasing the Turnigy X14 transmitter. We have included many popular HobbyKing model files to get you up and flying as quickly as possible. As more model files get created, they will be available to download on the HobbyKing website. For first time users, this guide will walk you through setting up your plane for use with the model files included with your radio, To learn more about the ETHOS system follow this link: bit.ly/FrSkyInfo

HOBBYKING CANNOT BE HELD ACCOUNTABLE FOR CRASHES USING THE PRE-PROGRAMMED MODEL MEMORIES. IT IS THE RESPONSIBILITY FOR THE END USER TO CHECK ALL CONTROLS ETC BEFORE FLIGHT.

Navigating on the X14

Buttons and their uses:

POWER - Press and Hold to turn off and on

MDL - Tap to go to the MODEL MENU, Hold to go directly to MODEL SELECT

SYS - Tap to go to the SYSTEM MENU. Alt function - when entering text, cursor left

DISP - Tap to go to CONFIGURE SCREENS. Alt function - when entering text, cursor right

RTN - Exit

PAGE - Tap to go to the next page. Press and Hold to page back. Alt function - when entering text, delete character

SCROLL WHEEL - scroll between items. Alt function - when entering text, scroll between characters or numbers

ENTER - Confirm selection. Alt function - when entering text, move to next character

DOCUMENTATION

Please follow the plane's manual for initial setup. Radio setup notes like channel assignments are available in the README folder for each model in your radio. To view the README files from your computer::

Power on your transmitter and connect to your computer via USB cable. On the X14, SCROLL to ETHOS Suite. The Radio's drives should appear on your computer. Go to the RADIO drive on your computer and navigate to DOCUMENTS - MODEL README. Select your model to read the .txt

SELECTING A MODEL

From the Main Screen,

Press and Hold MDL to shortcut to the MODEL SELECT page

Use the SCROLL WHEEL to navigate and find the model you want.

Once Highlighted, Press and Hold ENTER to shortcut choose the model.

Press ENTER to acknowledge any warnings

Press PAGE to see switch assignments for your particular model.



The Model Select page

BEFORE BINDING AND POWERING UP YOUR PLANE

When assembling your plane, do NOT connect the pushrods to the control surfaces. You should do your final adjustments to the pushrod lengths with the servos powered up and in their neutral position.

Binding ACCESS or TW receivers

From main screen

MDL - RF SYSTEM

Select INTERNAL MODULE

STATE - On

Protocol - Select your receiver's protocol

Register and Bind your receiver:

Tap REGISTER

You will see a "Waiting for receiver" message. Hold the button on the receiver as you power it on.

RX Name will populate with your receiver model name. Tap REGISTER.

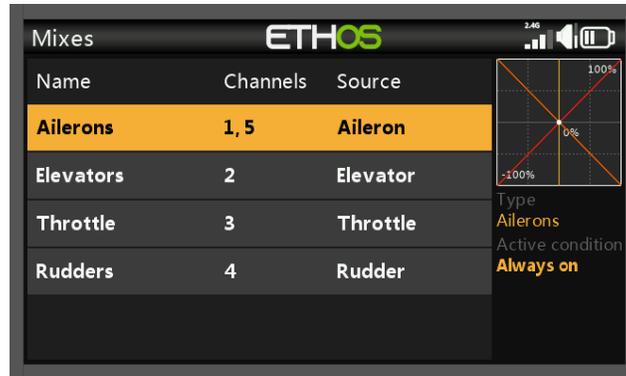
SCROLL to RX1 and hit ENTER to start BINDING

Unplug power to the receiver and plug it back in

Your receiver model name should pop up. Hit enter. Your receiver is now bound.

SETTING UP YOUR PLANE

Connect all servo connections to your receiver. Please refer to the readme for your plane for channel assignments. Or from the main screen, go to MDL - MIXES. On this page, you can reference channel assignments. With the plane powered up and your propeller disconnected for safety, you can now adjust and connect your pushrods to the elevator, rudder and ailerons. Adjust each pushrod so the control surface is as level as possible. Unless stated in the model readme file or the plane's actual manual, the default control horn hole for hooking up the pushrods is the outermost hole. This will minimize trim adjustments when you maiden your plane. Flaps should be adjusted with the flaps in the UP position. See the FLAPS section below for flap adjustment specifics.



Go to MDL - MIXES to review channel assignments

Servo Reversing

We took great pains to ensure that servo reversing is correct for the model of plane. These are designed for HobbyKing PNF planes. If you have a kit and installed your own servos, Servo reversing should be carefully checked before flying. Please refer to the plane's manual for checking control surface direction before you fly. PLEASE CHECK YOUR CONTROL SURFACES for proper direction. Also check Retracts, doors and Flap for proper direction. If you find that a control surface needs reversing, here are the steps. We will use ELEVATOR as an example:

From the main page,

MDL - OUTPUTS

SCROLL to ELEVATOR and tap ENTER

SCROLL to Direction and tap ENTER to change the direction

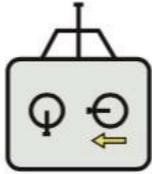
This will also work if your retracts are going the wrong direction when you hit the GEAR switch.



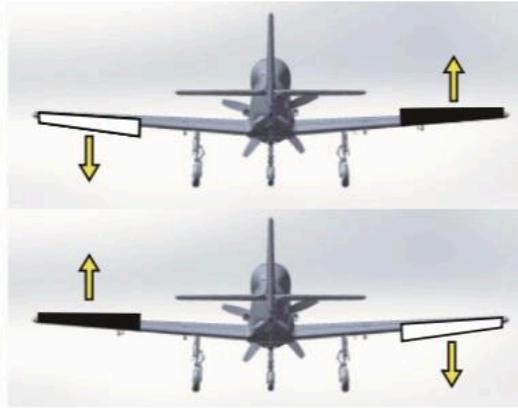
MDL - OUTPUTS - Elevators - Direction to reverse elevator channel



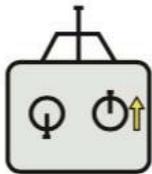
Roll right



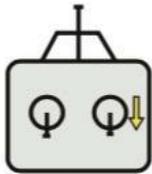
Roll left



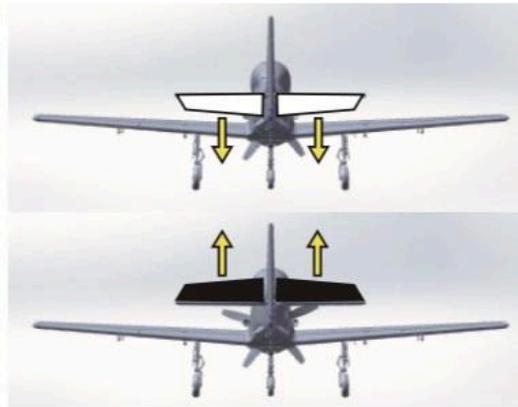
Aileron
(Roll)



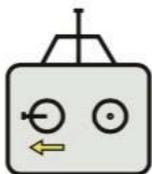
Elevator down



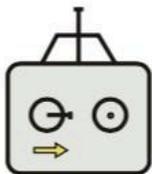
Elevator up



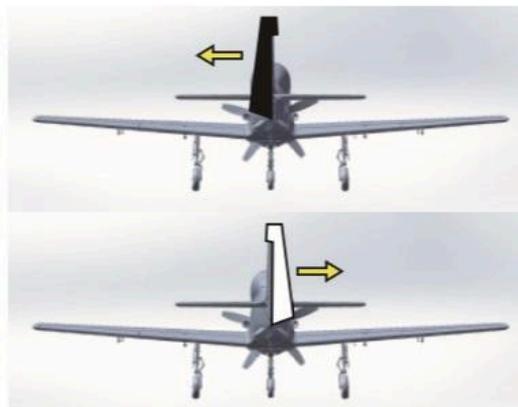
Elevator
(Pitch)



Yaw left



Yaw right



Rudder
(Yaw)

Flaps

The flap travel and direction should be pre-adjusted but always double-check. If your plane has flaps. It is VERY important that they are adjusted correctly so you do not bind your servo and cause a servo burnout. Before connecting the pushrod to the flap control horn, ensure that the servo is going the proper direction by hitting the flap switch (SB) and observing the direction. Adjust by following the instructions in the SERVO REVERSING section

To set up Flaps:

Put the Flap switch to the FLAPS UP position. Adjust the pushrod so that flaps in the up position are level to the wing and not binding. Connect the flap pushrod to the flap control horn. Flip the flap switch to half then full. Observe the travel and look for binding. To adjust flap travel if needed,

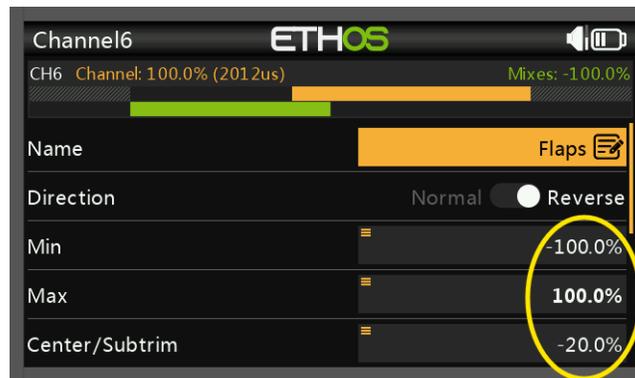
From the main page,

MDL - OUTPUT

SCROLL to FLAPS and tap ENTER

Adjust MIN and MAX for full up and down for flap travel and

Adjust CENTER/SUBTRIM for FLAPS HALF position.



MDL - OUTPUTS - FLAPS to adjust Flaps up, center and down

Flap to Elevator Mix

If your model has flaps, a form of flaps to elevator mix is already pre-programmed. Instead of doing a mix, we used FLIGHT MODES. Flight modes allow independent trim per flight mode. The flight modes are selected by the flap switch. When you maiden your plane, use trims for aileron, elevator and rudder for straight and level flight at cruise speed. Deploy half flaps (SB middle position) after you slow down to landing speed. Now you can adjust your elevator trim if needed for flaps half. Deploy full flaps (SB down position). Let the plane settle and adjust elevator trim again if needed. Flight modes remember the trim for each flight mode (Flaps up, Half and Full). So elevator trim will change for each mode. Using flight modes allows you to easily adjust elevator trim for each flap position on the fly and in the air.

RATES and EXPO

Rates and EXPO are a personal preference. We have adjusted rates and expo to give you a good experience out of the box. If you would like to adjust to your tastes, here is an example with Elevator:

From the main page,

MDL - MIXES

Scroll to ELEVATOR and tap and hold to shortcut to the Elevator Edit page

CURVE is where EXPO lives and WEIGHTS/RATES is where rates live.

SA is what we assigned for Rates and Expo selection. Adjust, add remove rates and expo to your preference.

Ailerons, Elevator & Rudder

Make sure your trims are neutral and adjust pushrod length by turning the clevis in and out until the control surface is neutral when the pushrod clevis is installed.

Retracts

If your plane has retractable landing gear, confirm that the gear goes up when your switch is in the up position and vice versa. Confirm with the audio call out. If it is backwards Reverse the servo direction.

Cargo Doors

Please adjust and confirm that there is no servo binding when the door is in the up or down position.

Adjust if necessary as follows:

From the main screen,

MDL - OUTPUTS

Go to the DOORS channel and hit ENTER

Adjust MIN and Max for full door travel without binding.

ENJOY YOUR FLIGHT!