

Conscendo® 2.0m Advanced Configuration Instructions

The aircraft is equipped with flaps that can travel both ways. Using the optional **Advanced Configuration** setup allows mixing the flaps with the ailerons to offer full-span aileron/flaperon/spoileron and crow operation with a 7–8+ channel receiver (including the AR8360T+ installed in the BNF Basic version) and a 10+ channel transmitter.

NOTE: Update NX and iX series transmitters to the latest firmware to use the programming options listed here.

NOTE: **Advanced Configuration** setup requires a 10+ channel transmitter. If using a DX-series transmitter, only the DX18 and DX20 are compatible with the programming instructions listed here.

Needed to Complete

For Full-Span Aileron/Flaperon/Spoileron and/or Crow functionality:

- Full-range 10+ channel Spektrum DSMX®/DSM2® compatible transmitter
- 7+ channel receiver (for PNP)

There are three ways to program your compatible 10+ channel transmitter and receiver for **Advanced Configuration** setup.

For NX and iX series transmitters with the latest firmware:

1. Download the preset receiver model file that includes a Smart Transmitter File (STF) for the advanced configuration from the Spektrum™ Google Drive™ here: <https://horizonhobby.cc/cacsreceivermodelfile>
2. Use a PC and the Spektrum programming cable (SPMA3065) to load the file into the receiver.
3. Load the STF in the transmitter during binding.

For DX18, DX20, all NX or iX series transmitters:

1. Download the preset transmitter model file from the Spektrum Google Drive here: <https://horizonhobby.cc/cacstransmittermodelfiles>
2. Use a PC and SD card or Wi-Fi to load the file into the transmitter.
3. Use the **Receiver Forward Programming for Advanced Configuration** settings (p. 4) to program the receiver manually for AS3X+ and SAFE Select.

For DX18, DX20, all NX or iX series transmitters:

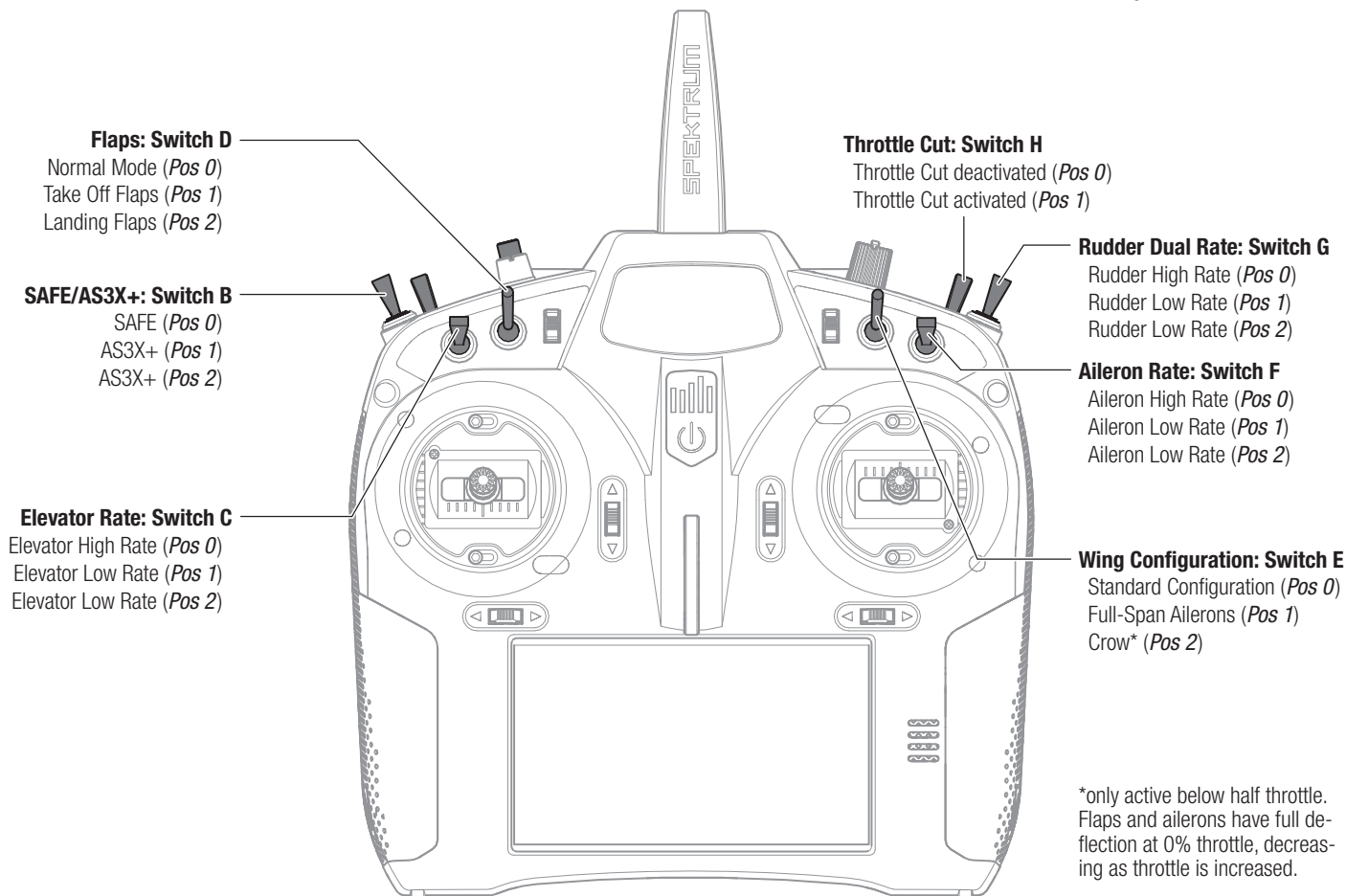
1. Use the **Manual Transmitter Setup / Programming Option** tables (pp. 2–3) to program your transmitter manually.
2. Use the **Receiver Forward Programming for Advanced Configuration** settings (p. 4) to program the receiver manually for AS3X+ and SAFE Select.

STF and Manual Transmitter Setup Switch Layout (for Advanced Configuration)

The following illustration shows the switch layout and functions on a typical Spektrum transmitter when programmed using the manual transmitter setup tables or the STF loaded from the aircraft receiver.

Flight Modes

The STF has Flight Modes enabled. These Flight Modes are separate from AS3X+ and SAFE Select and allow you to trim the aileron, elevator, and rudder channels separately for each flap position (0, 1, 2) as controlled by **Switch D**. This is beneficial, because it allows you to trim the aircraft for level flight when the flaps are retracted (normal mode), deployed partially (take off flaps), or fully (landing flaps). Trim the aileron, elevator, and rudder channels separately for each flap position in flight. Once you trim each Flight Mode/flap position the way you prefer, you shouldn't need to trim the aircraft much or at all again in the future.



Conscendo® 2.0m Advanced Configuration Instructions

Manual Transmitter Setup / Programming Option (For Advanced Configuration)

NX and DX Series Transmitter Setup

- Power ON your transmitter, click on scroll wheel, roll to **System Setup**, and click the scroll wheel. Select **YES**.
- Go to **Model Select** and choose <Add New Model> at the bottom of the list. The system asks if you want to create a new model, select **Create**.
- Set **Model Type**: Select Airplane Model Type by choosing the Airplane. The system asks you to confirm model type, data will be reset. Select **YES**.
- Scroll down and select **Model Name**: Input a name for your model file. Scroll up to **BACK**, and press the scroll wheel to return to **System Setup**. Or press the **BACK** button.
- Scroll down and select **Aircraft Type**. Set to: 2 Aileron 2 Flaps. Scroll up to **LIST**, and press the scroll wheel to return to **System Setup**.
- Scroll down and select **Channel Assign**. Scroll down on the **Channel Output Config** screen, and change output to:

NX Transmitter			DX Transmitter		
CH/Port	Output	Input	CH/Port	Output	Input
10/A10	Aux 10	Switch B	10/A10	Aux 5	Switch B
- Select <Main Screen>. Click the scroll wheel to enter the **Function List**.
- Scroll down to **Rates and Expo**, and press the scroll wheel. Scroll down to **Channel** and select **Aileron**. Set Switch: **Switch F**

	Dual Rate	Expo
Pos 0	100 / 100	10 / 10
Pos 1	100 / 100	10 / 10
Pos 2	70 / 70	5 / 5
- Scroll up to **Channel** and select **Elevator**. Set Switch: **Switch C**

	Dual Rate	Expo
Pos 0	100 / 100	10 / 10
Pos 1	100 / 100	10 / 10
Pos 2	70 / 70	5 / 5
- Scroll up to **Channel** and select **Rudder**. Set Switch: **Switch G**

	Dual Rate	Expo
Pos 0	100 / 100	10 / 10
Pos 1	100 / 100	10 / 10
Pos 2	70 / 70	5 / 5

NX and DX Series Transmitter Setup

- Scroll to **Throttle Cut**, and press the scroll wheel. Set Switch: **Switch H**. Position > Set to %: -100
- Scroll to **Flap System**, and press the scroll wheel. Set Switch: **Switch D**

	Flap	Elevator
Pos 0	0	0
Pos 1	-50	20
Pos 2	-100	33

Set Speed: 2.0
- Scroll up to **LIST**, and press the scroll wheel to return to the **Function List**.
- Scroll to **Servo Setup**, and press the scroll wheel. Scroll to **Travel**, and press the scroll wheel. Then scroll to **Reverse**, and set: **Reversing**

Right Aileron	Left Aileron
Reversed	Reversed
- (NX Transmitter) Scroll to **Reverse**, and press the scroll wheel. Scroll to **Abs. Travel** and set: **Absolute Travel**

Right Aileron	Left Aileron	Right Flap	Left Flap
Down position	Down position	Down position	Down position
Change 4096 to 3419	Change 1 to 679	Change 1 to 679	Change 1 to 679

(DX Transmitter) Scroll to **Reverse**, and press the scroll wheel. Scroll to **Abs. Travel** and set: **Absolute Travel**

Right Aileron	Left Aileron	Right Flap	Left Flap
Down position	Down position	Down position	Down position
Change 2048 to 1710	Change 1 to 340	Change 1 to 340	Change 1 to 340
- Scroll up to **LIST**, and press the scroll wheel to return to the **Function List**. Scroll to **Mixing** and set: **Mixing**

Mix 1	Mix 2
Full Span Aileron – Normal	Crow Throttle – Normal
Aileron to Left Flap	Throttle to Left Aileron
Switch E	Switch E
Position 1 – Rate %: 100 / 100	Position 2 – Rate %: 0 / -70

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Manual Transmitter Setup / Programming Option (For Advanced Configuration)

iX Series Transmitter Setup

- Power ON your transmitter and begin once the Spektrum AirWare app is open. Tap the **orange pen** icon in the screen's upper left corner. The system asks for permission to **Turn Off RF**, select **PROCEED**.
- Select the three dots in the upper right corner of the screen, select **Add a New Model**.
- Select **Model Option**, choose **DEFAULT**, select **Airplane**. The system asks if you want to create a new airplane model, select **Create**.
- Select the last model on the list, named **Acro**. Tap on the word **Acro** and rename the file to a name of your choice.
- Tap and hold the back **arrow** icon in the upper left corner to return to the main screen.
- Tap the **Model Setup** button. Select **Aircraft Type**. The system asks for permission to **Turn Off RF**, select **PROCEED**. Touch the screen to select **Wing**. Set to: 2 Aileron 2 Flaps.
- Set **Flight Mode Setup**.
Switch 1: Switch B.
Hold Switch: Switch H.
 Tap on the **arrow** in the upper left corner to return to the **Model Setup** menu.
- Set **Channel Assign**.

CH/Port	Output	Input
10/A10	Aux 10	Switch B

 Tap the **arrow** in the upper left corner to return to the **Model Setup** menu.
 Tap the **arrow** in the upper left corner to return to the main screen.
- Tap the **Model Adjust** button.
- Select **Model Adjust**, then select **Dual Rates and Expo**.
 Set Switch: **Switch F**
 Select **Aileron**.

	Dual Rate	Expo
Pos 0	100 / 100	10 / 10
Pos 1	100 / 100	10 / 10
Pos 2	70 / 70	5 / 5
- Select **Elevator**.
 Set Switch: **Switch C**

	Dual Rate	Expo
Pos 0	100 / 100	10 / 10
Pos 1	100 / 100	10 / 10
Pos 2	70 / 70	5 / 5

iX Series Transmitter Setup

- Select **Rudder**.
 Set Switch: **Switch G**

	Dual Rate	Expo
Pos 0	100 / 100	10 / 10
Pos 1	100 / 100	10 / 10
Pos 2	70 / 70	5 / 5
- Tap the **arrow** in the upper left corner, then select **Flap System**.
 Set Switch: **Switch D**
 Select **Model Adjust**.

	Flap	Elevator
Pos 0	0	0
Pos 1	-50	20
Pos 2	-100	33

 Set Speed: 2.0
- Select **Throttle Cut**.
 Set Switch: **Switch H**
 Position > Set to %: -100
- Tap the **arrow** in the upper left corner to return to the **Model Adjust** menu.
 Select **Mixing**.

P-Mix1		P-Mix2	
<i>Full Span Aileron – Normal</i>		<i>Crow Throttle – Normal</i>	
Aileron to Left Flap		Throttle to Left Aileron	
Switch E		Switch E	
Position 1 – Rate %: 100 / 100		Position 2 – Rate %: 0 / 70	
- Tap the **arrow** in the upper left corner to return to the **Model Adjust** menu.
 Select **Servo Setup**.
 Select **Reverse**.

Right Aileron	Left Aileron
<i>Reversed</i>	<i>Reversed</i>
- Select **Absolute Travel**.

Right Aileron	Left Aileron	Right Flap	Left Flap
<i>Down position</i>	<i>Down position</i>	<i>Down position</i>	<i>Down position</i>
Change 4096 to 3419	Change 1 to 679	Change 1 to 679	Change 1 to 679

Conscendo® 2.0m Advanced Configuration Instructions

Receiver Forward Programming for Advanced Configuration Including AS3X+ and SAFE Select

IMPORTANT: Ensure the transmitter/model is programmed for the Advanced Configuration, then bind it to the receiver. **SKIP** loading the Smart Transmitter File if you have a BNF Basic version aircraft (the STF does not work with the Advanced Configuration). When using the pre-programmed AR8360T+ receiver included with the BNF Basic version, you must **Factory Reset** it, then perform the First-Time Setup for AS3X/SAFE before using forward programming to set the following settings/values:

Flight Mode Setup (Assigned during Initial SAFE Setup)

FM Channel	CH 10	Aux 10	Switch B
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In Flight Mode 1

AS3X	Act
SAFE Mode	Self Level / Angle Demand
High Thr to Pitch	Act
Low Thr to Pitch	Act
Hand Launch Assist	Act

AS3X SETTINGS

Rate Gains for Flight Modes 1, 2, 3

Roll	25%
Pitch	65%
Yaw	73%

Fixed / Adjustable Gain for Flight Modes 1, 2, 3

Roll	Fixed
Pitch	Fixed
Yaw	Fixed

Throttle Arm	Act
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SAFE GAINS

Flight Mode 1

Roll	52%
Pitch	49%

Angle Limits

Roll Right	83
Roll Left	83
Pitch Up	40
Pitch Down	40

SAFE / PANIC MODE SETUP

Low Throttle to Pitch	
Threshold	30
Angle	-5

High Throttle to Pitch	
Threshold	70
Angle	8

Attitude Trim	
Pitch	-3

SAFE Failsafe	
Flight Mode	1

Failsafe Angles	
Roll	-20
Pitch	10

HAND LAUNCH ASSIST

Flight Mode 1	
Threshold Gs	0.5
Threshold Throttle	70%
Duration	4 seconds
Pitch Offset	15 degrees

Receiver and Servo Connection Reconfiguration

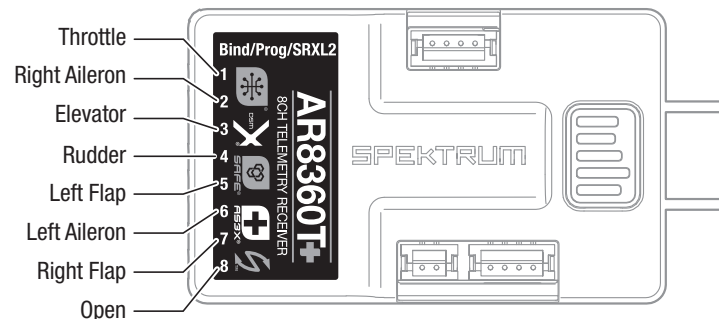
The illustration, right, shows the AR8360T+ receiver port servo locations.

IMPORTANT: Remove the aircraft propeller blades from the spinner by removing the two retaining bolts.

Complete the transmitter and receiver setup before reconfiguring the servo leads in order to verify the setup functions correctly after the reconfiguration process.

1. Disconnect the flap servos from the Y-harness, and remove the Y-harness from Port 6 of the receiver.
2. Plug the left flap into Port 5 and the right flap into Port 7.
3. Disconnect the aileron servos from the Y-harness, and remove the Y-harness from Port 2 of the receiver.
4. Plug the left aileron into Port 6 and the right aileron into Port 2.

TIP: To identify each lead, deflect the surfaces and plug a lead into an active port to see which surface moves –OR– use a servo tester.



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US 8,672,726 US 9,056,667 US 9,753,457. US 10,078,329. US 9,930,567. US 10,419,970. Other patents pending.

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