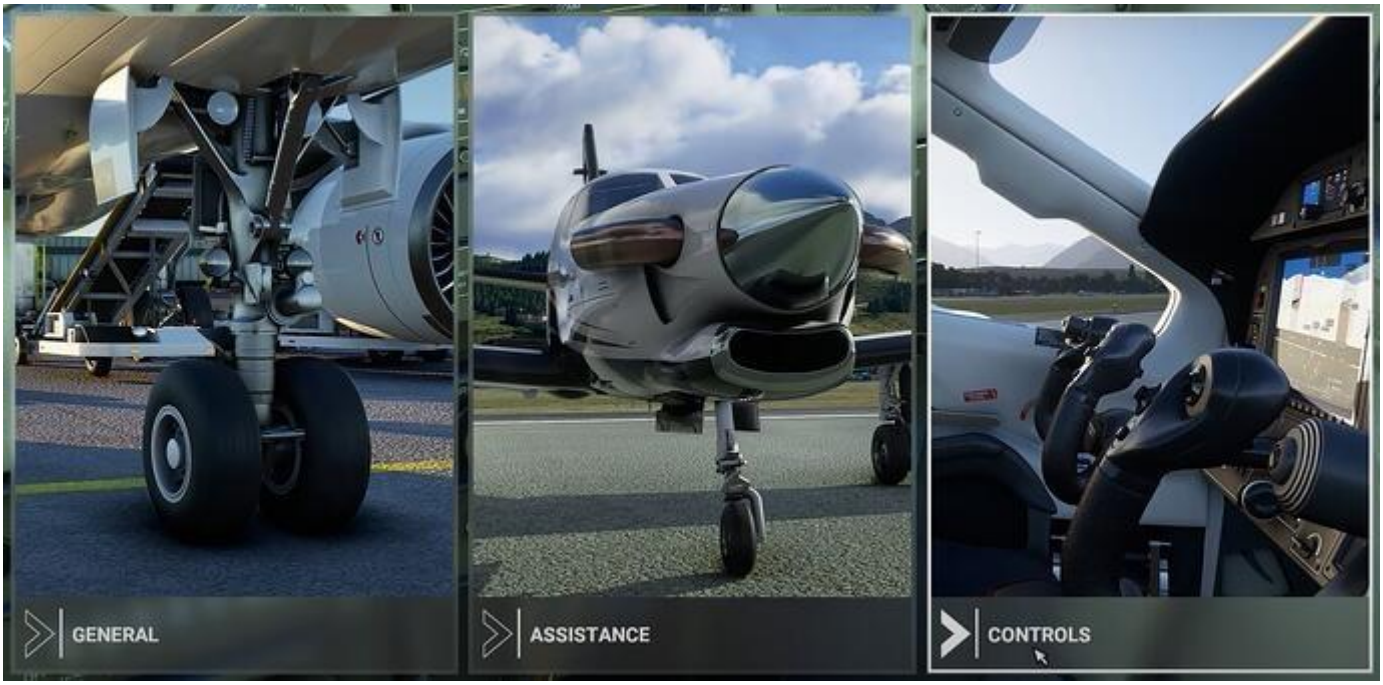
How to Configure Your Redbird Alloy Controls in Microsoft Flight Simulator 2020

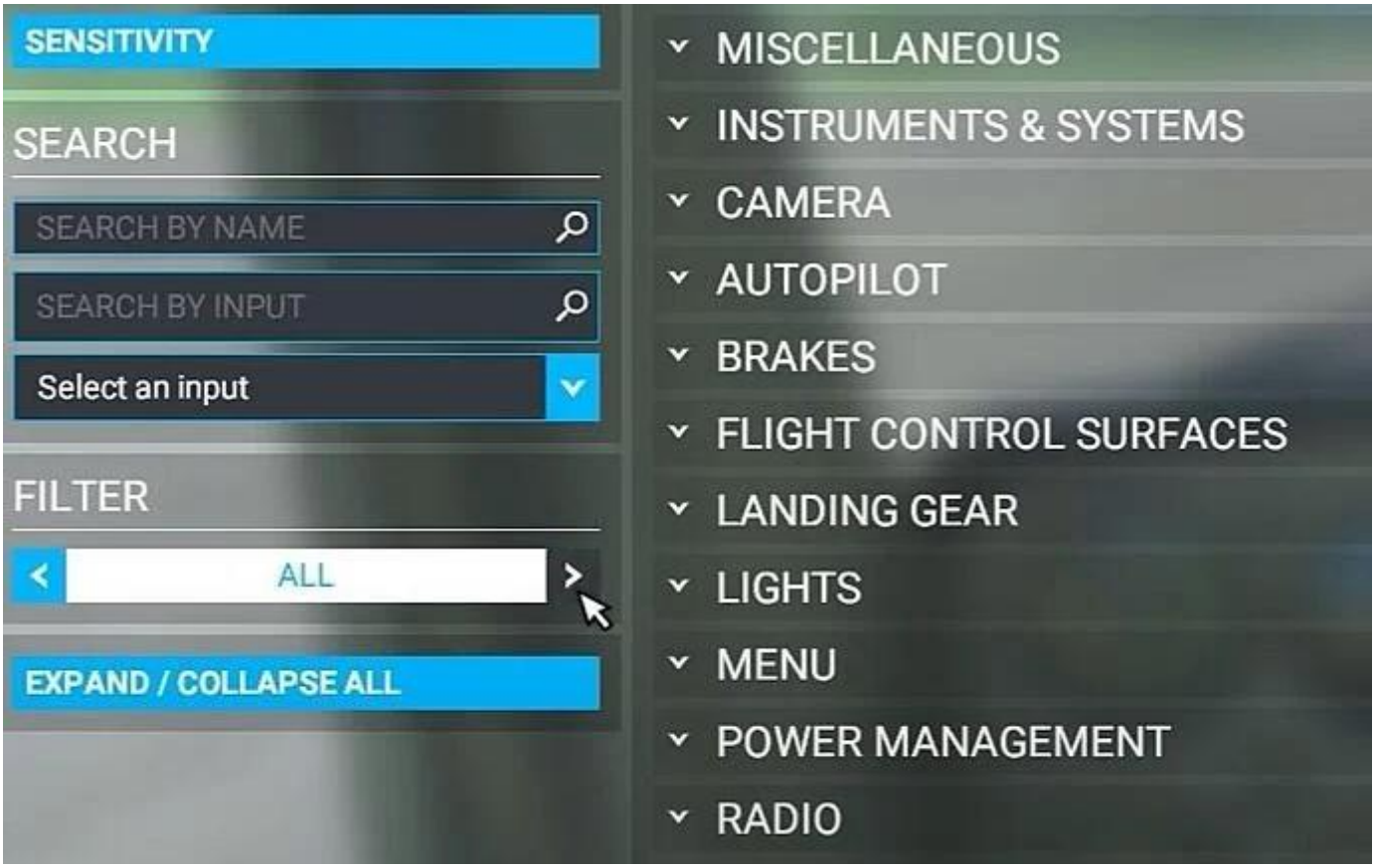
A step-by-step guide on how to set up and calibrate your Redbird Alloy home flight simulator controls for MSFS 2020

1. With Microsoft Flight Simulator 2020 open, navigate to the **Options** drop-down menu and select **Controls**. Or, if you've already begun a flight, press the **Escape** key on your keyboard and select **Controls**.



2. At the top of the Controls menu, select the tab that corresponds to the controller that you wish toconfigure (YK1, RD1, TH1, TH2, and/or TH3).

3. Once you've selected your controller, navigate to **Filter** at the left side of the Controls menu, and change the setting from "Assigned" to "**All**."



4. Now you can use the **Search by Name** box to search for your desired control (for instance, "throttle" or "rudder").

To find the axes for a control, you also can search "axis."

5. To map the control, click its name on the screen.

6. Then choose a corresponding input using the **Search by Input** box. When you're finished mapping, click on **Validate** to make any changes.

7. Note: the axes that you calibrate in the Windows game controller settings are the same that youselect from in the input field in MSFS 2020. So, don't pay attention to the + or - options if you've already calibrated your controls in Windows. Just choose the corresponding X, Y, or Z-axis and test to see if it is moving as intended. For instructions on how to calibrate your controllers in Windows, refer to our calibration guides for each Redbird Alloy product.

8. To save your changes, click **Apply & Save** at the bottom of the Controls menu. If you had already launched a flight, press the **Escape** key to return to it.

Recommended Mapping and Sensitivity Settings for Microsoft Flight Simulator 2020

Alloy YK1 Yoke

Button/Axis Mapping:

- Joystick L-Axis X: **Ailerons Axis; Reverse = False**
- Joystick L-Axis Y: **Elevator Axis; Reverse=False**
- Button 1: **Display ATC**
- Button 2: **Set Autopilot Disengage**
- Button 3: **Elevator Trim Down (Nose Down)**
- Button 4: **Elevator Trim Up (Nose Up)**
- Button 5: **Cockpit Look Down**
- Button 6: **Cockpit Look Right**
- Button 7: **Cockpit Look Up**
- Button 8: **Cockpit Look Left**
- Button 9: **Reset Cockpit View**
- **Note: Buttons 5-9 are not available on Generation 1 YK1 Yokes.*

Sensitivity Settings:

- Ailerons Axis:
  - Sensitivity -: **-25%**
  - Sensitivity +: **-25%**
  - Dead Zone: **+5%**
  - Neutral: **0%**
  - Extremity Dead Zone: **0%**
  - Reactivity: **100%**
- Elevator Axis:
  - Sensitivity -: **-40%**
  - Sensitivity +: **-40%**
  - Dead Zone: **+5%**
  - Neutral: **0%**
  - Extremity Dead Zone: **0%**
  - Reactivity: **100%**

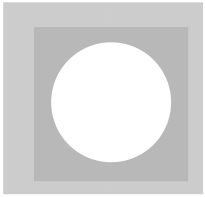
Alloy RD1 Rudder Pedals

Mapping:

- Joystick L-Axis X: **Left Brake Axis; Reverse=True**
- Joystick L-Axis Y: **Right Brake Axis; Reverse=False** Joystick
- L-Axis Z: **Rudder Axis; Reverse=False**

Sensitivity Settings:

- Left/Right Brake Axes:
  - Sensitivity -: **-0%**
  - Sensitivity +: **-0%**
  - Dead Zone: **0%**
  - Neutral: **0%**
  - Extremity Dead Zone: **0%**
  - Reactivity: **100%**
- Rudder Axis:
  - Sensitivity -: **-75%**
  - Sensitivity +: **-75%**
  - Dead Zone: **+5%**
  - Neutral: **0%**
  - Extremity Dead Zone: **0%**
  - Reactivity: **100%**



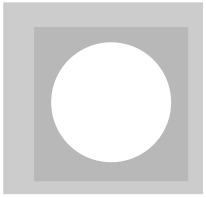
Alloy TH1 Throttle Quadrants

Button/Axis Mapping:

- Joystick L-Axis X: **Throttle 1 Axis; Reverse=False**
- Joystick L-Axis Y: **Propeller 1 Axis; Reverse=False**
- Joystick L-Axis Z: **Mixture 1 Axis (0-100%); Reverse=False**
- Button 1: Gear Up
- Button 2: Gear Down
- Button 3: Decrease Flaps Button
- 4: Increase Flaps

Sensitivity Settings:

- All Axes:
  - Sensitivity -: **-0%**
  - Sensitivity +: **-0%**
  - Dead Zone: **0%**
  - Neutral: **0%**
  - Extremity Dead Zone: **0%**
  - Reactivity: **100%**



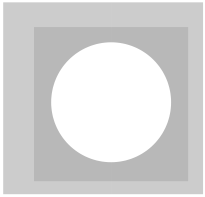
Alloy TH2 Throttle Quadrants

Button/Axis Mapping:

- Joystick L-Axis X: **Throttle 1 Axis; Reverse=False**
- Joystick L-Axis Y: **Throttle 2 Axis; Reverse=False**
- Joystick L-Axis Z: **Propeller 1 Axis; Reverse=False**
- Joystick R-Axis X: **Propeller 2 Axis; Reverse=False**
- Joystick R-Axis Y: **Mixture 1 Axis (0-100%); Reverse=False**
- Joystick R-Axis Z: **Mixture 2 Axis (0-100%); Reverse=False**
- Button 1: Gear Up
- Button 2: Gear Down
- Button 3: Decrease Flaps
- Button 4: Increase Flaps
- Button 5: Rudder Trim Left
- Button 6: Rudder Trim Right

Sensitivity Settings:

- All Axes:
- Sensitivity -: **-0%**
- Sensitivity +: **-0%**
- Dead Zone: **0%**
- Neutral: **0%**
- Extremity Dead Zone: **0%**
- Reactivity: **100%**



Alloy TH3 Throttle Quadrants

Button/Axis Mapping:

Joystick L-Axis X: **Throttle 1 Axis; Reverse=False**
Joystick L-Axis Y: **Propeller 1 Axis; Reverse=False**
Joystick L-Axis Z: **Mixture 1 Axis (0-100%); Reverse=False**
Button 1: Gear Up
Button 2: Gear Down
Button 3: Decrease Flaps Button
4: Increase Flaps

Sensitivity Settings:

All Axes:

Sensitivity -: **-0%**
Sensitivity +: **-0%**
Dead Zone: **0%**
Neutral: **0%**
Extremity Dead Zone: **0%**
Reactivity: **100%**