



*Precision Flight Controls, Inc.*

## Serial Throttle Quadrant Console

### Setup Guide

With Microsoft Flight Simulator 2004



## **Preface**

This setup guide will walk you through the necessary steps to set up your Serial Digital Throttle Quadrant Console System with Microsoft Flight Simulator 2004 (FS2004). Your console must have the connections as shown below: (1) 9 Pin port, (1) 25 Pin port and (1 or 2) 15 Pin port. If your console does not have these connections it is **not** compatible with FS2004.

It assumes that you have already installed FS2004 at least has ran it once. If you have not installed and run it, please do so now and refer to this guide once that task is completed. For reference on software installation, please refer to manual you received with your software.

It also assumes that you **ONLY** have the Serial Throttle Quadrant Console, if you have other serial device manufactured by PFC such as a yoke, pedals or avionics please go to our website get the appropriate guide.

### Set Up Phases:

- A. Install the PFC Serial Driver for FS2004
- B. Configure PFC Serial Driver for hardware communication
- C. Enable and calibrate main controls
- D. Enable and calibrate trim controls.
- E. Enable Quadrants
- F. Configure Consoles tab

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## A. Install the PFC Driver for FS2004

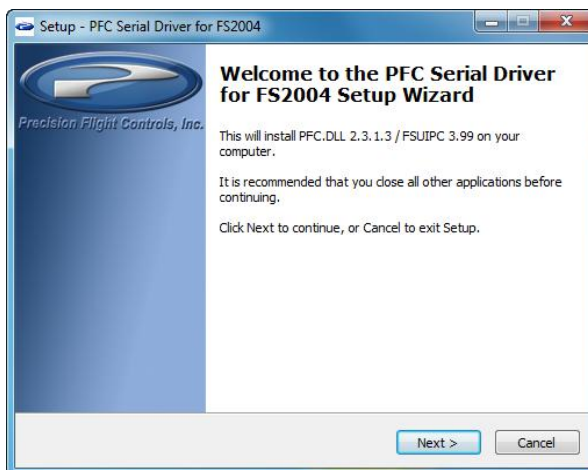
The PFC Serial Driver for FS2004, includes the PFC.dll and FSUIPC.dll. This software allows the serial Precision Flight Controls, Inc. devices to communicate and work with Microsoft Flight Simulator 2004 (FS2004) and Microsoft Flight Simulator X (FSX). Because of the internal difference between FS2004 and FSX please make sure that you download the appropriate PFC Driver for the software that you are using.

### A1. Download the PFC Driver for FS2004

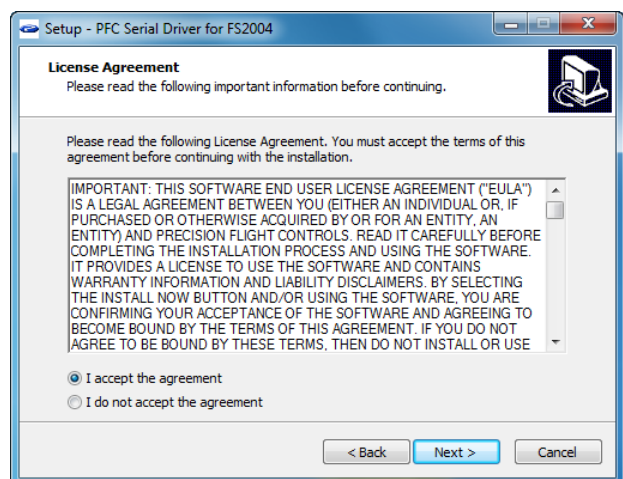
1. Download the PFC Serial Driver for FS2004 from our site:  
[https://www.flypfc.com/downloads/support/drivers/PFC\\_Serial\\_Driver\\_FS2004.exe](https://www.flypfc.com/downloads/support/drivers/PFC_Serial_Driver_FS2004.exe)
2. When you click on the link it will ask where you want to save the file, make sure that you save it on your Desktop.
3. Now that you have downloaded the driver please close your browser.

### A2. Installing the driver

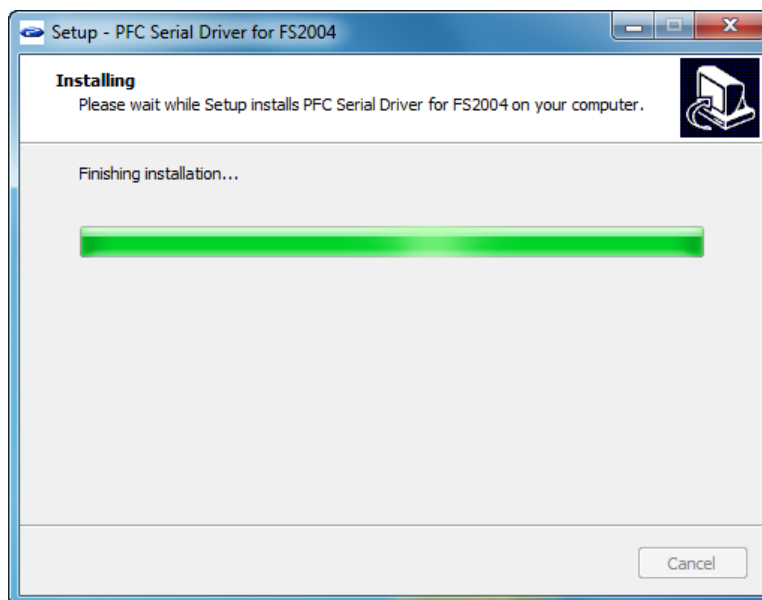
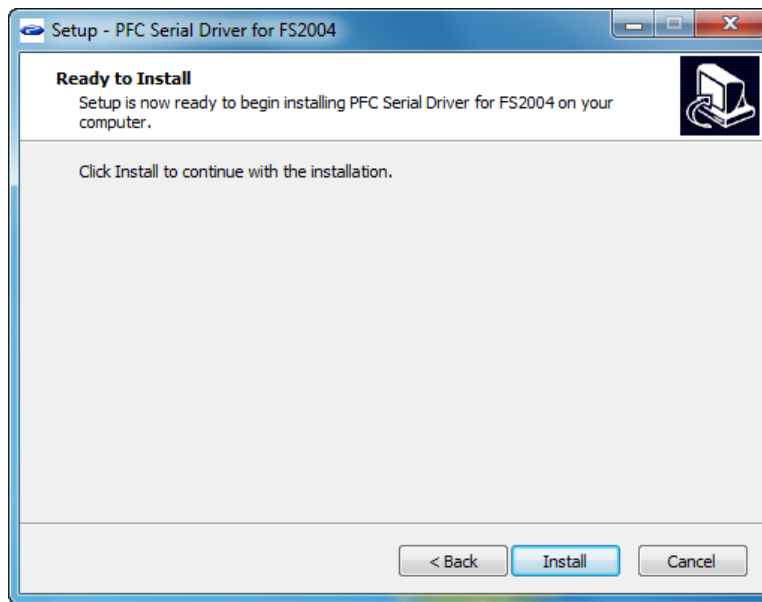
4. On your desktop, look for the PFC\_Serial\_FS2004\_Driver.exe, and double click on it.
5. Click on Next.



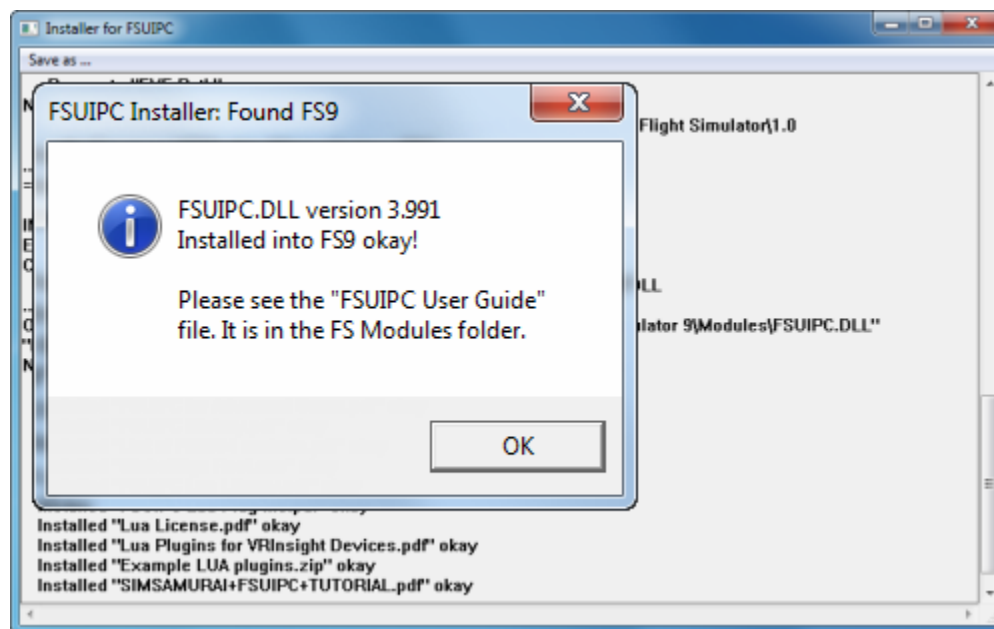
6. Read the license agreement. You will need to Accept the agreement to be able to use the driver. Once you have agreed click on Next.



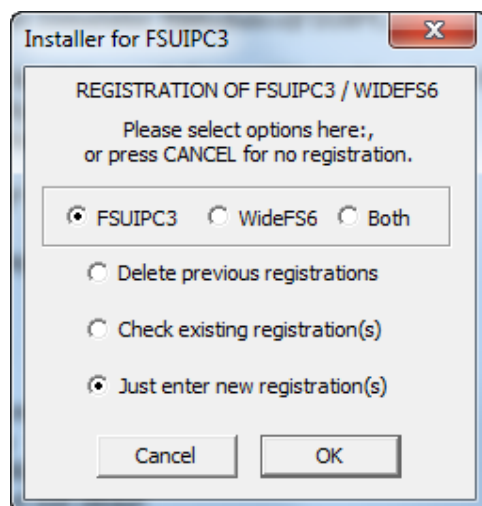
7. Now click on **Install**.



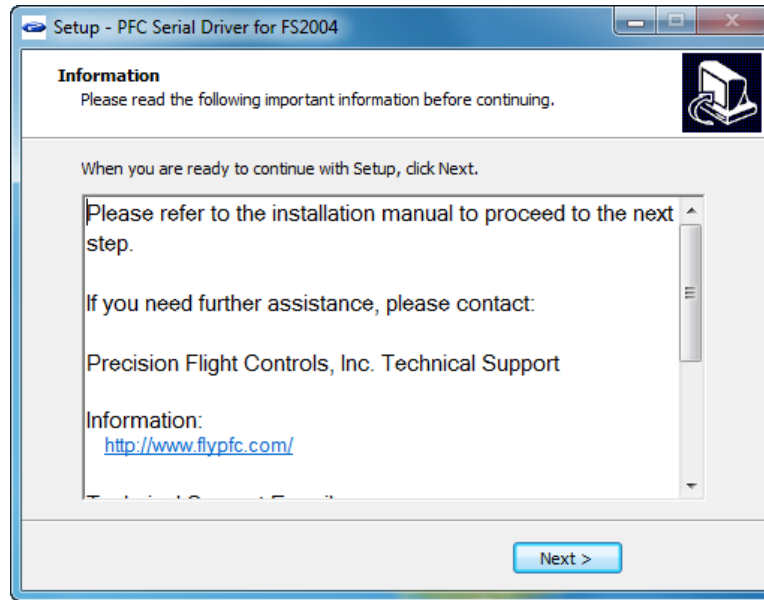
8. Click on OK here



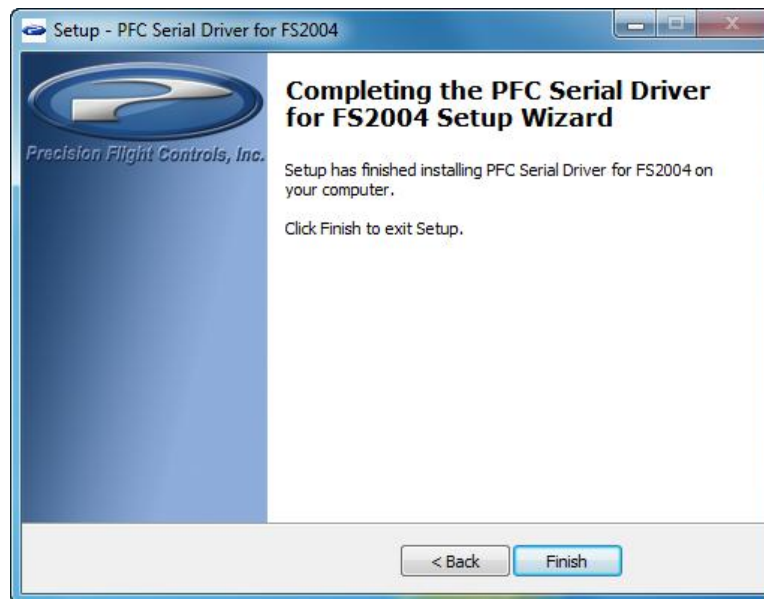
9. If you have a registration for FSUIPC, input it in here otherwise click on Cancel.



10. Now click on **Next**.



11. Now click on **Finish**.



## B. Configure PFC Serial Driver for hardware communication

### B1. Getting the Com Port information

The COM port or serial port is a port used by the Serial Throttle Quadrant Console System to communicate to FS2004. It is important to know the correct COM port number that your Serial Throttle Quadrant Console System is connected to. This information will be necessary for proper communication between FS2004 and Serial Throttle Quadrant Console system. The steps below will guide you to find out the correct com port number.

1. Go into the device manager

#### **For Windows 7:**

- I. Click on the Start orb.
- II. In the Search box, type *device manager* and then press enter.

#### **Or**

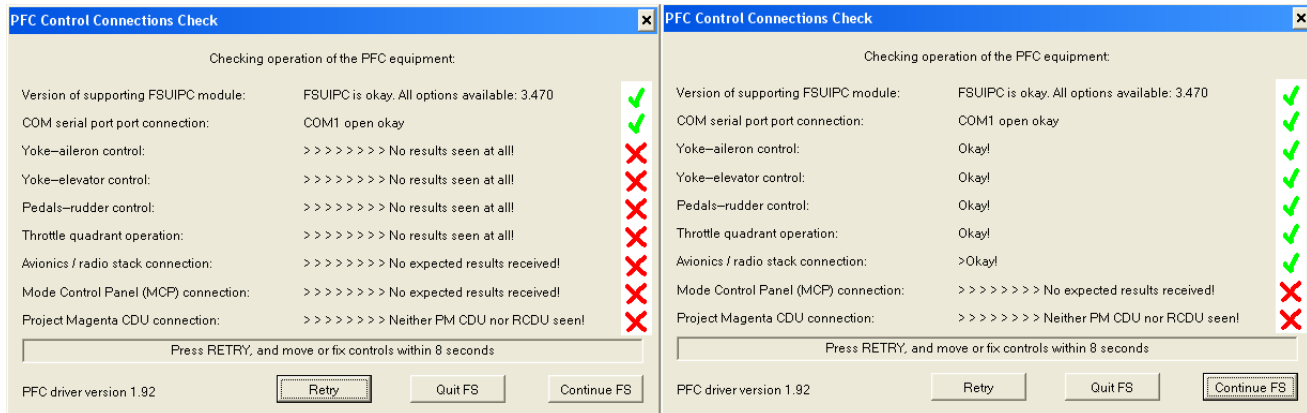
- I. Click Start
- II. Click Settings
- III. Click Control Panel
- IV. In the Control Panel double-click the Systems icon.
- V. In the System Properties window click the Hardware tab.
- VI. In the Hardware tab click the Device Manager button.

2. In the Device Manager window, expand the Ports list by clicking on the plus (+) sign
3. Make a note of the com port numbers, as you will need this later in your setup.
  - My COM Port number/s : \_\_\_\_\_ and \_\_\_\_\_
4. Close the Device Manager Window and any other open Window



## B2. Configure PFC Driver with Com Port information

5. Start **FS2004**
6. Once it has completely started, choose **Create a Flight**.
7. Then click on **Fly Now!**
8. Once FSX has completely started, the PFC Control Connections Check window will be shown.



9. Choose the Com port that your hardware is connected to.
10. It should say COM (x) open-okay. If it does not say OK look at you notes on Step18 and look at the second number that you wrote, change the COM port to that number and click on **Retry**.
11. Once the correct COM Port is selected you should get a green check on the **Throttle Quadrant Operation**.

### NOTE:

- If you do not have PFC Serial Cirrus Rudder Pedals the Pedals-Rudder Control Connection will not turn green
- If you do not have PFC Serial avionics panel the Avionics /Radio Stack Connection will not turn green
- If you do not have The PFC Mode Control Panel (MCP) the Mode Control Panel (MCP) Connection will not turn green.

12. Now that all the controls that are applicable to you have checked OK, click on **Continue FS**.

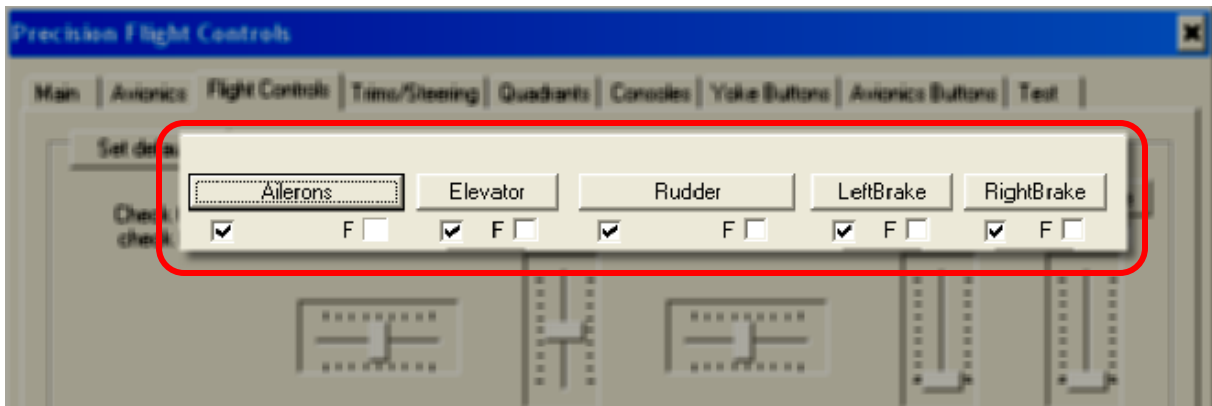
## C. Disable Flight Controls

### NOTE:

If you do not have PFC Yoke and Pedals or if your PFC Yoke and Pedals are connected to the USB port on your computer, you will need to disable the flight controls here

#### C1. Disable flight controls

1. Press the ALT key on your keyboard and choose PFC.
2. In the **Precision Flight Controls** window, choose **Flight Controls**.
3. In the **Flight Controls** tab **DISABLE** the **Elevator**, **Aileron**, **Rudder**, **Left Brake** and **Right Brake**.



## D. Enable and calibrate trim

NOTE: Before enabling the Aileron or Rudder trim, you will need to make sure that your trim is a separate channel.

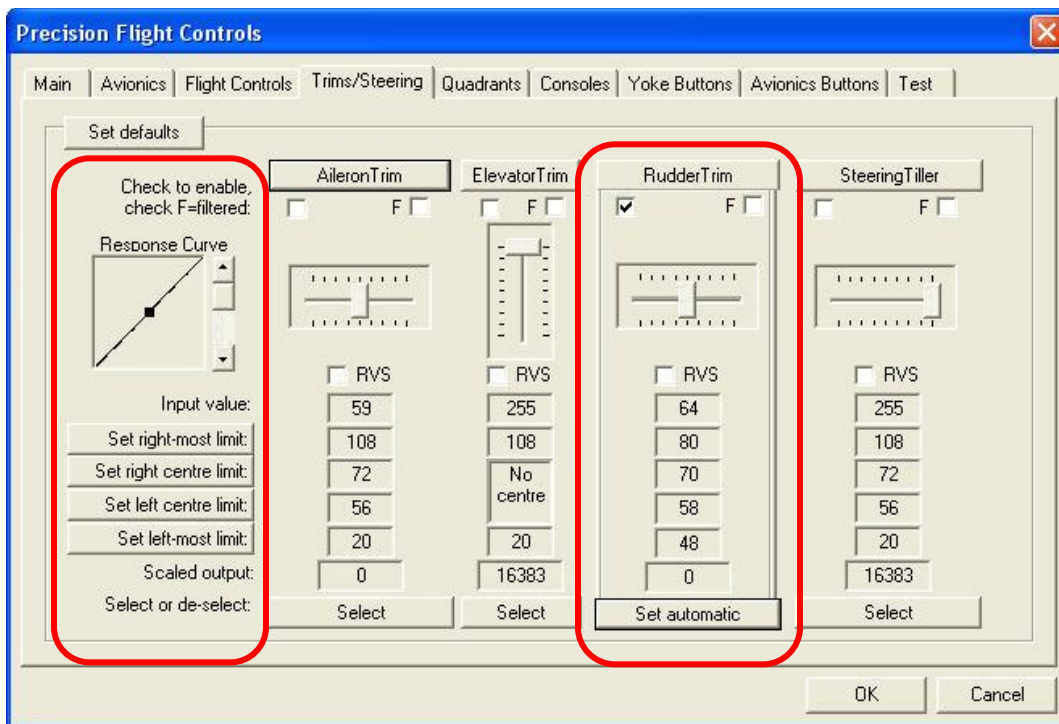
4. Go to the **Trims & Steering** tab.



5. Enable the **Rudder Trim** and turn it left to right and see if the indicator is responding.  
If your rudder trim is **not** responding:
  - a. If your rudder trim is not responding, it means that it is not a separate channel and is connected to the rudder pedals instead. Disable the rudder trim check and set the rudder trim to the center with your rudder pedals.

If your rudder trim **is** responding:

- Click on **Select** button under the **Rudder Trim Axis**. This should say **Set Automatic** now.
- Turn your **Rudder Trim** knob the way to the **Left**. Click on the **Set left most limit**.
- Turn your **Rudder Trim** knob all the way to the **Right**. Click on the **Set right most limit**.



## E. Enabling the quadrants

1. Click on **Throttle Quadrants** tab.
2. Scroll through the list by clicking on the arrows.
3. Enable the levers that you own by clicking on the Quadrant Enabled check box on the left side.
4. Disable the quadrants you do not have by unchecking the box.

