Precision Flight Controls, Inc.

PFC Serial Digital Avionics Panel and X-Plane 9 Setup Guide

Preface

This setup guide will walk you through the necessary steps to set up your PFC Serial Digital Avionics with X-Plane 9.XX. For connection diagram please refer to diagrams towards the end of this manual

This setup guide assumes that you have already installed the X-Plane 9.XX software. If you have not installed the X-Plane 9.XX, please install it now and refer to this guide once installation is done. For reference on software installation, please refer to the software manual that you have received.

Getting the COM Port information:

The COM port or serial port is a port used by the PFC Serial Digital Avionics to communicate to X-Plane. It is important to know the correct COM port number that your PFC Serial Digital Avionics is connected to as this information will be necessary for proper communication between X-Plane and PFC Serial Digital Avionics. The steps below will guide you to find out the correct com port number.

1. Is X-Plane running? If it is, please exit the X-Plane by moving your mouse to the top of the screen and click on FILE and then QUIT.
2. Go to Start then choose Control Panel.
3. If you are seeing **Pick a category**, choose **Performance & Maintenance** then choose **System**. If not just choose **System.**
4. From the **Systems Window**, choose **Hardware** then **Device Manager**
5. Expand the **Ports** list by clicking on the plus **(+)** sign
6. Make a note of the numbers on the Communications Port.
7. Close the Device Manager window, the System Window and the Control Panel Window.

Setting Up X-Plane

8. Start X-Plane.
9. At this point you should see an aircraft at the end of a runway, if you do, move the mouse all the way to the top and from the menu bar, choose **Settings**.
10. Choose **Joystick, Keys & Equipment**, then choose **Equipment Tab**
11. Enable the check boxes as shown in **Figure 1.1**
12. Once all the options pictured are enabled, change the com port number of the ***"COM PORT for SERIAL OUT TO PFC HARDWARE"*** to the one that you noted from Step 6**.**
13. Now that you have selected correct com port, close the Equipment Window by clicking on the (x) upper left hand corner.
14. Now move the mouse all the way to the top and from the menu bar choose **File** then choose **Quit.**
15. Set Up is complete.
16. From the Windows Desktop, start X-Plane again. You PFC Avionics is now functional.

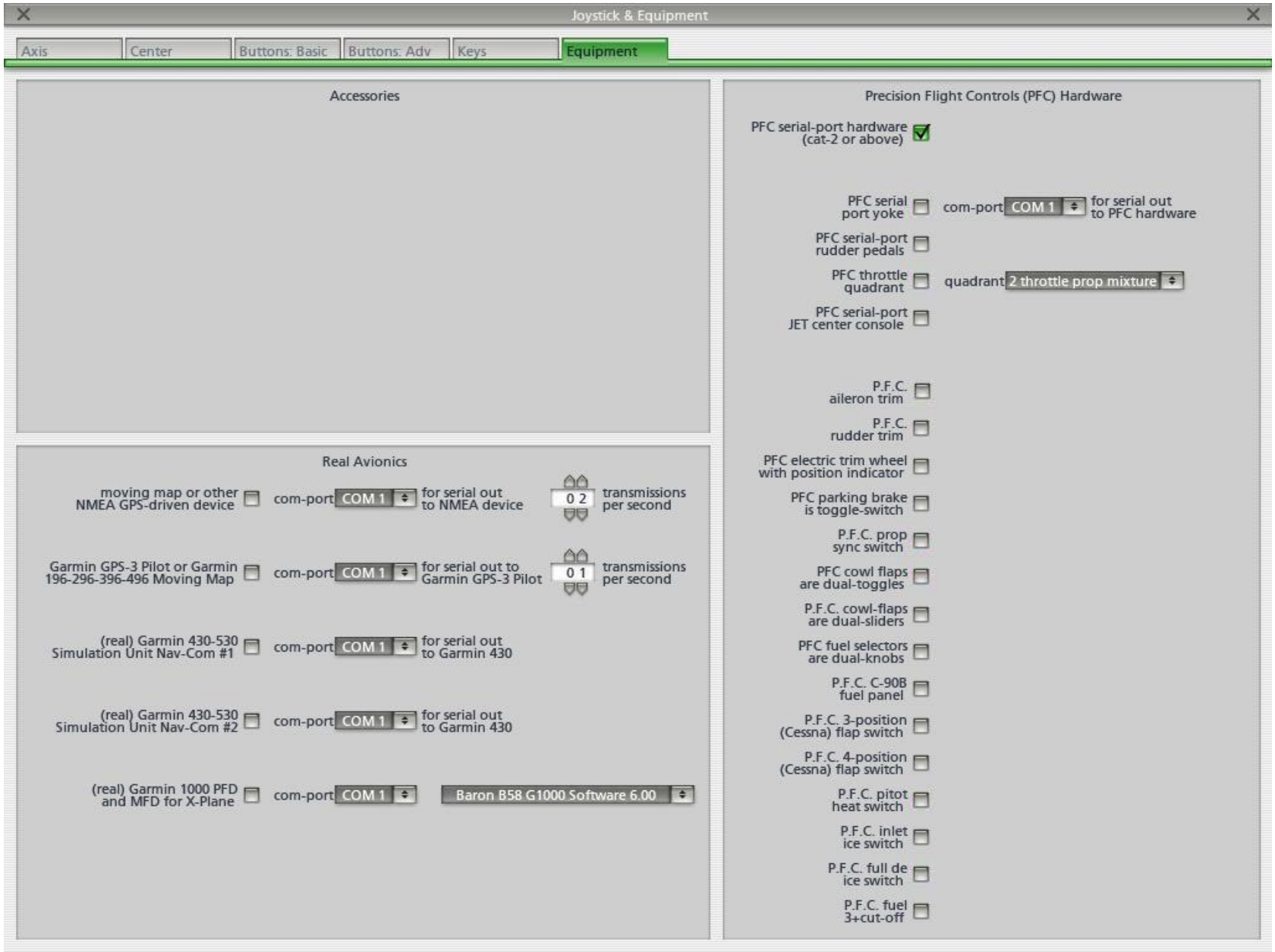
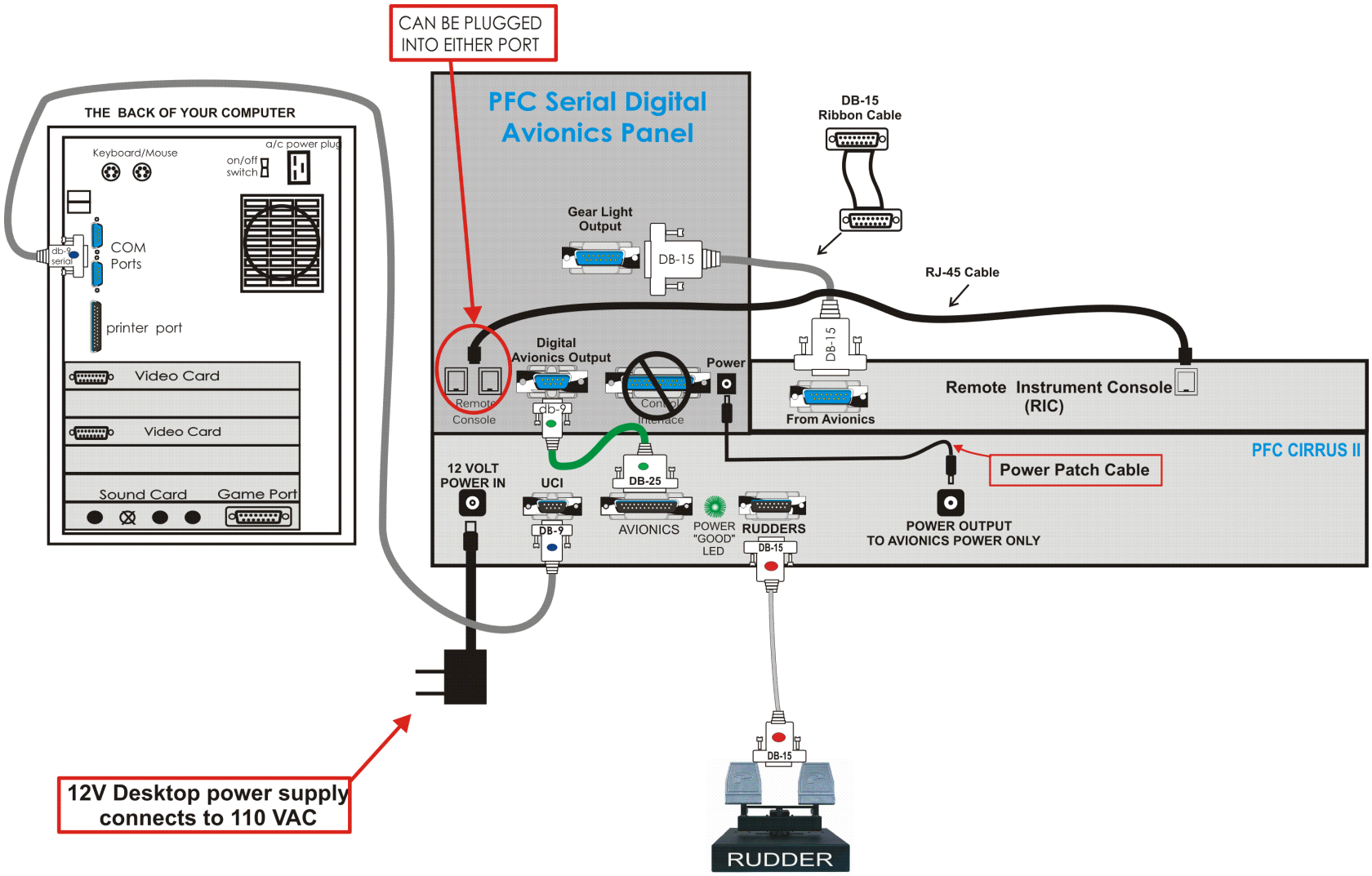
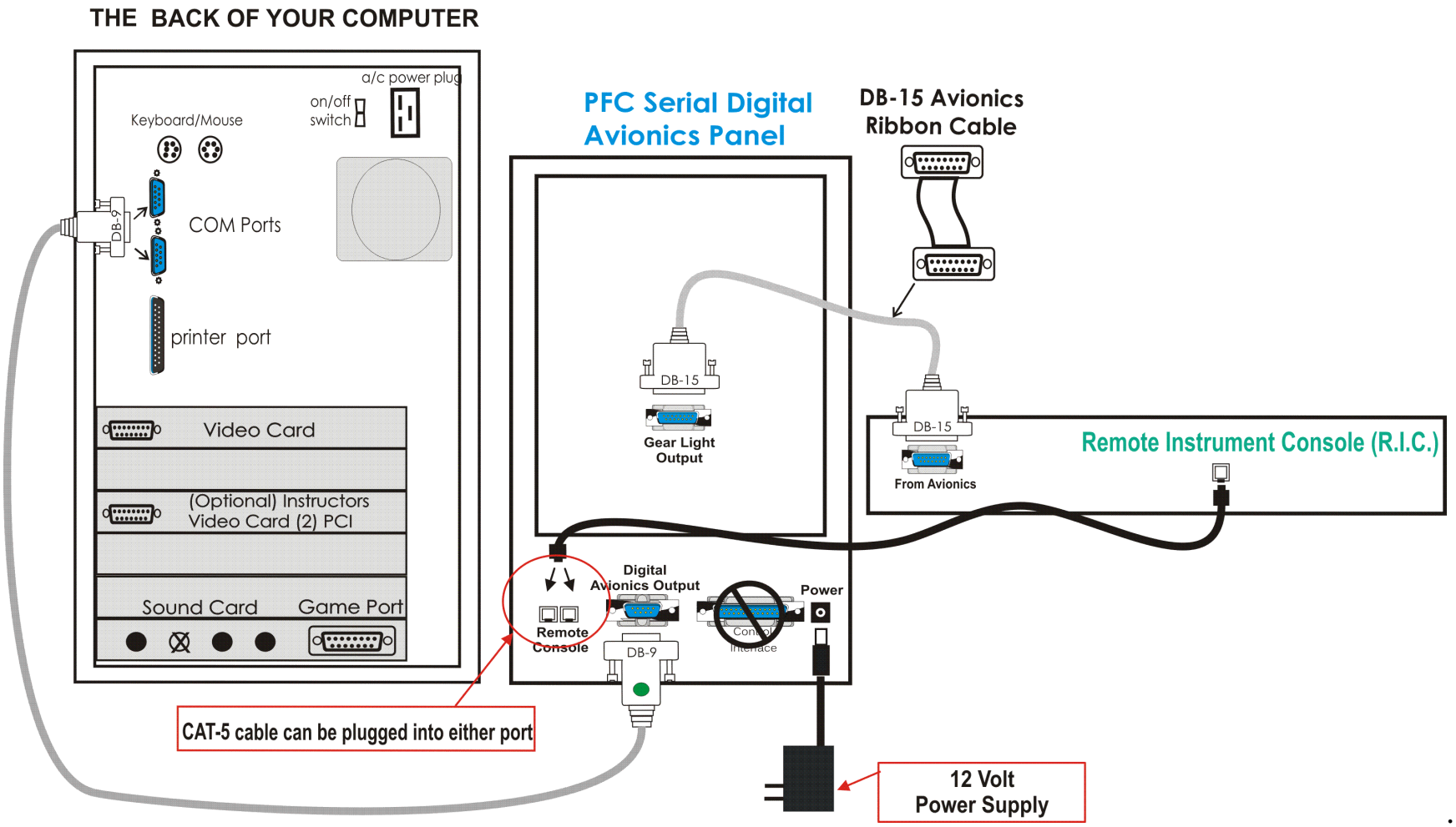
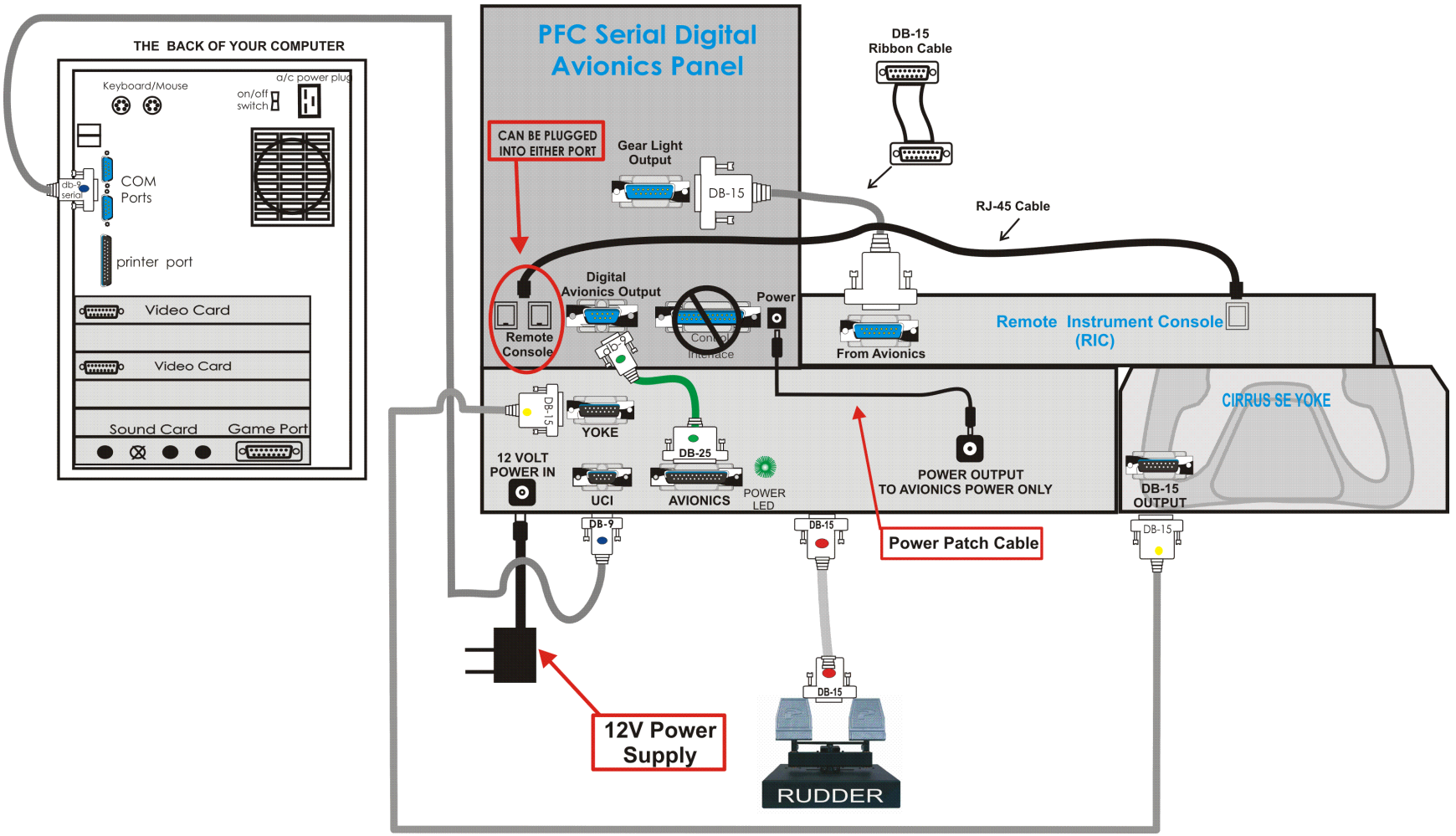

Joystick & Equipment
Axis
Center
Buttons: Basic
Buttons: Adv
Keys
Equipment
Accessories
Real Avionics
moving map or other NMEA GPS-driven device
com-port COM 1
for serial out to NMEA device
0 2
transmissions per second
Garmin GPS-3 Pilot or Garmin 196-296-396-496 Moving Map
com-port COM 1
for serial out to Garmin GPS-3 Pilot
0 1
transmissions per second
(real) Garmin 430-530 Simulation Unit Nav-Com #1
com-port COM 1
for serial out to Garmin 430
(real) Garmin 430-530 Simulation Unit Nav-Com #2
com-port COM 1
for serial out to Garmin 430
(real) Garmin 1000 PFD and MFD for X-Plane
com-port COM 1
Baron B58 G1000 Software 6.00
Precision Flight Controls (PFC) Hardware
PFC serial-port hardware (cat-2 or above)
PFC serial port yoke
com-port COM 1
for serial out to PFC hardware
PFC serial-port rudder pedals
PFC throttle quadrant
quadrant 2 throttle prop mixture
PFC serial-port JET center console
P.F.C. aileron trim
P.F.C. rudder trim
PFC electric trim wheel with position indicator
PFC parking brake is toggle-switch
P.F.C. prop sync switch
PFC cowl flaps are dual-toggles
P.F.C. cowl-flaps are dual-sliders
PFC fuel selectors are dual-knobs
P.F.C. C-90B fuel panel
P.F.C. 3-position (Cessna) flap switch
P.F.C. 4-position (Cessna) flap switch
P.F.C. pitot heat switch
P.F.C. inlet ice switch
P.F.C. full de ice switch
P.F.C. fuel 3+cut-off

Figure 1.1

PFC CIRRUS II, PFC SERIAL DIGITAL AVIONICS, AND PFC CIRRUS PEDALS INSTALLATION



PFC SERIAL DIGITAL AVIONICS PANEL



PFC DIGITAL THROTTLE QUADRANT CONSOLE
PFC SERIAL DIGITAL AVIONICS AND PFC CIRRUS PEDALS INSTALLATION