Collins Aerospace Pro Line 21 and Pro Line Fusion® Program Updates

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# **Rockwell Collins Proline 21 Autopilot Manual**

**Tao Wei** 

## **Rockwell Collins Proline 21 Autopilot Manual:**

Machine Design ,1995 Jane's All the World's Aircraft ,2007 Flight International ,2006 Flying Magazine ,2000-09 The AOPA Pilot ,2008 West's Federal Supplement ,2002 Cases decided in the United States district courts United States Court of International Trade and rulings of the Judicial Panel on Multidistrict Litigation Installation Manual Rockwell International. Collins Avionics Division,1994 Collins FCS-105 Flight Control System Rockwell International. Collins General Aviation Division,1978

Instruction Book Rockwell International. Collins Avionics Division, Collins Radio Company, 1986 Collins ANS-31C Area Navigation System Installation Manual Rockwell International. Collins Avionics Division, 1980 GPS Autopilot and Flight <u>Director Systems</u> Bruce Bessette, 2017-04-04 Section 1 GPS Systems This section introduces the technician to the history and system design of the Global Positioning System This section will emphasize the operations and frequencies broadcasted from the satellites and how those frequencies are modulated Section 2 GPS Installations This section is the portion that covers the onboard equipment From early non approved models to the new TSO approved units today this section will cover the type of installations and how certain aircraft will use the position information Section 3 Flight Management Systems Section three is a review of aircraft Flight Management Systems FMS GPS systems only have one job to find the location of the aircraft as accurately as possible Before this technology the aircraft location on a map would have to be plotted then the progress of the aircraft's flight continuously updated by hand by the pilot The task of monitoring of all aspects of the process of flying and navigating an aircraft by the pilot can be called flight management The advance of GPS technology has brought to the cockpit ability to plot on a moving map the exact location of the aircraft Section 4 Aircraft Documentation This section builds on Section 3 GPS installer Aircraft that are required to maintain their airworthiness must have documentation that proves that work This section covers documents types such as the variously Aircraft Equipment List Weight and Balance document FAA Form 337 for record major alterations and the Approved Flight Manual This section describes what approved data that can be used to alter an aircraft and how that record information be included in the FAA Form 337 is Section 5 Aircraft Fundamentals This section is designed to cover the basic of aircraft construction and operations The reason for this section to help provide an understanding how an Autopilot system interfaces with the parts of the aircraft structure An autopilot system will need to mimic the actions and controls of the pilot and technicians will need to understand what the system is doing Section 6 Introduction to Autopilots This section covers the history of autopilots in aircraft and what they are expected to do for the pilots First describing the three basic channels and the systems and control they move Then the individual controls and components are covered to include how those components connect to the aircraft systems Section 7 Testing the Autopilot This part the book is designed to correspond with the Autopilot Installers part of the course At the lab section of this course the student is expected to install and test a basic general aviation autopilot system This section goes over how the specific systems operate and how the technician is to test and certify the new installation Section 8 Air Carrier Auto Flight Systems This section covers more advanced autopilot systems that can be found in large air carrier aircraft Starting with the analog Boeing 727 system students will learn how to turn on engage and test a large aircraft autopilot system in all its various modes Section 9 Flight Director Systems This section covers the system that assists pilot with visual cues when flying an aircraft Starting with the Attitude Director Indicator to the FMS Mode Annunciation panel technicians will understand how the information is presented to the pilot and how to simulate the inputs to test the system Section 10 Automated Engine Controls This last section covers those automated mechanical and electronic systems used to monitor and control modern jet engines Beginning with the Engine Electronic Control EEC and ending the Full Authority Digital Engine Control System FADEC technicians will be introduced into the operation and monitoring of these throttle controls

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