

ROCKWELL COLLINS  
COMPONENT MAINTENANCE MANUAL with IPL  
TDR-94, PART NO 622-9352

STEP	PROCEDURE	DESIRED RESULTS
1.21	Verify that no fault codes are indicated on the monitor in either the "F3" CSDB output word or in the "350" ARINC-429 Maintenance Data Output word.	
1.22	If the UUT fails the Mode-S_Only reply rate as specified in Table 1001/Table 34-50-96-99A-009-A01 step 1.1.A at ambient or during temperature test, first verify the DPSK alignment. If alignment is satisfactory but UUT still fails Table 1001/Table 34-50-96-99A-009-A01 step 1.1.A, replace A7R430 with another value from the test select listing as shown in the associated parts list. Reverify DPSK alignment and complete temperature testing as required.	
1.23	After alignment is complete, remove all power from test equipment and reassemble unit under test.	
2.0	Receiver IF/LVPS Assembly, Alignment for CPN 687-0727-005 or subsequent.	
2.1	Monitor the 5 VDC output (J7-26) with a DVM while adjusting A7R507 on the IF/Power Supply board.	5 VDC output adjusted to 4.99 to 5.01 Vdc.
2.2	Monitor J7-33 on the Video Processor board with an oscilloscope.	
2.3	Set the MODE-S Test Set to generate ATCRBS MODE-C interrogations and apply to the bottom antenna connector. Set the interrogation rate to 450/second.	
2.4	<p>a. Set the MODE-S Test Set signal strength for -79 dBm.</p> <p>b. Adjust A7R196 to the fully clock-wise position. Monitor the Bottom Video signal at pin 33 of A6P22 with an oscilloscope while adjusting A7R95.</p> <p><b>NOTE:</b> The oscilloscope must be set to the averaging mode to properly measure the video pulse at the low signal levels required.</p> <p>c. Set the MODE-S test set signal strength to -77 dBm.</p> <p>d. Monitor the Bottom Video signal at pin 33 of A6P22 while adjusting A7R196.</p> <p>e. Verify that the reply rate is between 90% and 100%. If necessary, readjust A7R195 to the get the desired result.</p>	<p>An observed video level of 0.7 volts Peak.</p> <p>An observed video level of 0.7 volts Peak.</p> <p>A reply rate between 90% and 100%.</p>
2.5	<p>a. Set the MODE-S Test Set signal strength for -31 dBm.</p> <p>b. Monitor the P1 pulse at J7-33 with a DVM whiling adjusting A7R179 on the IF-Receiver.</p>	The P1 pulse adjusted to 4.99 to 5.01 V dc.

Alignment Procedure Cont.  
Table 1002/Table 34-50-96-99A-010-A01

# Manual Collins Proline 21 Pilots Guide

**Facundo Conforti**



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*The AOPA Pilot* ,2008      **Flying Magazine** ,2002-08      **Flying Magazine** ,2005-12      **Commerce Business Daily** ,1998-07      **Flying Magazine** ,2002-08      **Flight International** ,1996      **Aircraft** ,1982      *Jane's All the World's Aircraft* ,2006      Northrop X-4 Bantam Pilot's Flight Operating Instructions United States Air Force,2008-09-01 Designed without horizontal stabilizers the X 4 Bantam had a semi tailless design that bore some resemblance to Germany's Me 163 rocket plane The small twin jet craft relied on combined elevator and aileron surfaces known as elevons for pitch and roll control The role of the X 4 was to explore the transonic speed zone and to determine whether the design would lessen the stability and control problems affiliated with compressibility Although two Bantams were built only one proved mechanically sound The second was flown over eighty times by Northrop Air Force and NACA pilots They learned that the X 4 was sensitive in pitch and showed a tendency to hunt about all three axes as it approached Mach 1.0 Thus the X 4's design proved a failure Originally printed by Northrop NACA and the USAF this handbook provides a fascinating glimpse inside the cockpit of this experimental plane The manual was recently declassified and is here reprinted in book form      *Cessna 182. Handbook. Operating Manual for Pilots* Facundo Conforti,2024-07-04 One of the most flown aircraft in the world An aircraft that has earned its fame thanks to its high operational performance and reliability One of Cessna's most successful models the powerful and robust C182 In this work you will learn everything about this wonderful flying machine its history key characteristics limitations emergencies and performance An operational manual that will become a permanent reference guide for every pilot privileged to fly a Cessna 182 or for all enthusiasts of large aircraft in a small version      Cessna 206 Training Manual Danielle Bruckert,Oleg Roud,2010-11-06 A detailed guide to the popular Cessna 206 aircraft The book provides straight forward easy to understand explanations of the aircraft systems and flight operations including performance planning with photographs diagrams schematics and checklists The information has been compiled from engineering manuals manufacturers handbooks and the authors personal in depth flight experience The book is ideal for use when learning to fly on the C206 or during type transition training and a experienced pilots will also find useful tips and information to improve their flight standards The book is aimed at Cessna 206 pilots however aviation enthusiasts virtual pilots and engineers will also enjoy the information provided      Collins Pro Line II ,1993      Cessna 210 Training Manual Danielle Bruckert,Oleg Roud,2008-09-29 A detailed guide to the popular Cessna 210 aircraft The book provides straight forward easy to understand explanations of the aircraft systems and flight operations including performance planning with photographs diagrams schematics and checklists The information has been compiled from engineering manuals manufacturers handbooks and the authors personal in depth flight experience The book is ideal for use when learning to fly on the C210 or during type transition training and a experienced pilots will also find useful tips and information to improve their standards The book is aimed at Cessna 210 pilots however enthusiasts virtual pilots and engineers can also enjoy the

information provided The book is often used by commercial operators as part of their induction or transition training on the C210

**The PA28 Warrior** Jeremy M. Pratt,1992 Each guide in this comprehensive series covers the fundamentals of flying and the principal characteristics of a specific type of aircraft gathered from the advice and experiences of leading experts in the aviation industry Geared for pilots looking to supplement their individual plane s official flight manual these sourcebooks provide an overview of the aircraft and detailed descriptions of its handling characteristics limitations and performance data A history of each airplane s use and function is also included

**Installation Manual** Rockwell International. Collins Avionics Division,1994

*Cessna 172sp Training Manual* Oleg Roud,Danielle Bruckert,2017-08-10 The Cessna 172 Training Manual is a detailed guide to the popular Cessna 172 aircraft The book provides straight forward easy to understand explanations of the aircraft systems flight operations and performance illustrated with a variety of photographs diagrams schematics and tables The information has been compiled from the engineering manuals and operating handbooks for the C172SP and from the authors in depth personal experience as commercial pilots instructors and examiners on the aircraft The book is ideal for type transition training or for learning to fly as a supplement to the information provided by a qualified flight instructor and a companion to a structured training program through an approved provider Experienced pilots will also find useful tips and information to improve their flight standards and the book is a great instructional aid for C172SP instructors The book is aimed at Cessna 172SP pilots however enthusiasts virtual pilots and engineers can also enjoy the information provided

**C182 Training Manual** Oleg Roud,Danielle Bruckert,2009-08-30 A detailed technical guide for the Cessna 182 aircraft Straight forward useful explanations of the aircraft systems flight operations and performance planning with photographs diagrams and schematics Compiled from engineering manuals the pilot s operating handbooks and the authors personal in depth flight experience Great for use when learning to fly on the C182 or during training on type and a great reference manual for pilots who fly the aircraft

*P-47 Thunderbolt Pilot's Flight Operating Manual* Periscope Film Com,2006-06-12 Known as the Jug because of its fuselage shape the Republic P 47 Thunderbolt flew in every theatre of WWII except Alaska Nearly 13 000 were built by war s end The large aircraft carrier eight Browning machine guns and up to 2 000 lbs of bombs or rockets and proved an effective fighter and bomber The radial Pratt and Whitney powerplant put out over 2500 h p and propelled the P 47 at a maximum speed of 426 mph at 30 000 feet Originally published by the U S Army Air Force this handbook taught pilots everything they needed to know before entering the cockpit This affordable facsimile of a real WWII manual has been reformatted Care has been taken to preserve the integrity of the text

**Cessna 210 Training Manual** Danielle Bruckert,Oleg Roud,2011-07-01 An information manual for the Cessna 210 for use during flight training on the C210 or a great reference manual for pilots who fly the aircraft Compiled from manufacturers maintenance manuals Cessna 210 Pilot Operating Handbooks and the authors personal experience as a flight instructor and charter pilot on the C210 The explanations are straight forward and easy to understand with

photographs diagrams schematics The flight operations section includes standard practices for normal abnormal and emergency flight operations including performance planning and sample worksheets

**NORTH AMER T-28 TROJAN PILOTS** United States Navy, 2010-08 Designed as a replacement for the T 6 Texan North American s T 28 Trojan first flew in 1949 and remained in production until 1957 The T 28A was initially adopted as primary trainer by the U S Air Force but it served in this capacity for less than a decade The U S Navy and Marine Corps found the T 28B C model aircraft well suited to their needs and continued to use it up until 1984 when it was replaced by the T 34C turboprop Despite its training designation the T 28 flew in a combat role perhaps most famously during the Vietnam conflict where Trojans performed close air support and counter insurgency missions for the C I A Modified attack trainer T 28D Nomads also flew for the French in Algeria Originally created by the U S Navy in 1962 this T 28B C pilot s flight operating manual was required reading for pilots and trainees This high quality reproduction includes the original manual in its entirety including information on carrier landing training and emergency procedures It s a fascinating reference that puts you right in the cockpit of one of history s great planes

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