

Publications and Training Solutions

Course Syllabus: 523-0824618

COURSE TITLE: Pro Line Fusion - Cessna CJ3 Flight Line Maintenance

PREREQUISITES:

1. Students should have a basic knowledge of aircraft avionics systems.
2. Students should be familiar with the Microsoft Windows® operating system.
3. Students should complete the Welcome to Rockwell Collins eLearning CBT.
4. Students should have a working knowledge of the English language.

PURPOSE:

This course provides CJ3 flight line maintenance personnel with the knowledge necessary to operate and perform flight line maintenance on the Pro Line Fusion® Avionics system.

OBJECTIVES: Upon completing this course, the student should be able to:

1. Understand the principles of operation of the CJ3 Pro Line Fusion Avionics system.
2. Identify the components and describe their function and operation.
3. Describe the system architecture and interface.
4. Perform fault isolation to identify a faulty Line Replaceable Unit (LRU) using built-in test diagnostics.

COURSE LENGTH: Approximately Five (5) Hours

REFERENCES:

1. None.

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COURSE OUTLINE

0. Introduction

1. Familiarization

- A. Overview
- B. Philosophy
- C. MFD
- D. PFD
- E. System Block Diagram
- F. USB Flight Plan Loading

2. Drill & Practice

- A. Pre-Flight
- B. Engine Start
- C. Before Taxi
- D. Taxi
- E. Takeoff
- F. Initial Climb
- G. Cruise
- H. Descent
- I. Approach
- J. Go Around/Missed Approach

3. Tips & Tricks

- A. Onboard Maintenance System
- B. Software Loading
- C. Touch Interactive Map
- D. Baroalt – Radar Tilt Knob
- E. Looking At Weather Radar
- F. User Defined Holds

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- G. Radio Tuning
- H. Flight Planning
- I. Data Loading
- J. Graphical Flight Planning
- K. Flight Path Vector

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EQUIPMENT TYPE:

EQUIPMENT	NOMENCLATURE	PART NUMBER
Autopilot Panel	APS-85	622-6208-223
Course Knob Panel	CKP-3000	822-1281-002
Mode Select Panel	MSP-85	622-6209-020
Flight Guidance Computer	FGC-3000	822-1108-033
Aileron Servo	SVO-3000	822-1168-001
Rudder Servo	SVO-3000	822-1168-002
Primary Servo	SVO-3000	822-1168-001/002
Servo Mount (Aileron)	SMT-65	622-5735-022
Servo Mount (Elevator)	SMT-65	622-5735-023
Elevator Trim Servo	SVO-3000	822-1168-003
HF Transceiver	HF-9031A	822-0101-002
HF-Radio Mount	MT-9030	622-8115-001
HF Coupler Mount	MT-9041	622-8121-001
HF Antenna Coupler	HF-9041	622-8114-002
HF Feedline Adapter	FL-9003	685-0355-001
VHF Communication Transceiver 8.33kHz	VHF-4000	822-1468-110
VHF Communication Transceiver 8.33kHz, Data Link	VHF-4000	822-1468-310
External Compensation Unit	ECU-3000	822-1200-997

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EQUIPMENT	NOMENCLATURE	PART NUMBER
Communications Management Unit	CMU-4000	822-1739-003
Integrated Card Cage	ICC-3000	822-1129-001
IAPS Environmental Controller	IEC-3001	822-1167-001
Power Supply Module	PWR-3000	822-1137-001
Input/Output Concentrator	IOC-3100	822-1361-620
Option Control Module	OCM-3100	822-1484-200
Configuration Strapping Unit	CSU-3100	822-1363-002
Data Concentrator Unit	DCU-3001	822-1483-102
Remote Data Concentrator	RDC-4002	822-1533-301
Maintenance Diagnostic Computer	MDC-3110	822-1987-XXX
Cursor Control Panel	CCP-3500	822-2754-010
Multifunction Keypad Panel	MKP-3500	822-2568-010
Aircraft Personality Module	APM-5000	822-2195-001
Baro Single Knob Panel	SKP-3500	822-3163-010
Software: Adaptive Flight Display Runtime	AFDR-3700	810-0346-001
Software: Emulated Control Display Unit	ECDA-6000	810-0233-100
Software: Flight Display System Application	FDSA-6500	810-0234-2C0001
Software: Protocol Manager Application	PMA-6000	810-0192-100

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EQUIPMENT	NOMENCLATURE	PART NUMBER
Software: Radio Tuning System Application	RTSA-6000	810-0048-702
Software: Airframe Parameter Configuration Table	APCT-3700	810-0422-001
Software: Integrated Modular Avionics Table	IMAT-3700	810-0352-003
Audio Control Panel	ACP-4130	822-2381-xxx
RIU Mount	MMT-130	622-9671-002
Air Data Computer	ADC-3000	822-1109-xxx
ADC Mount	MMT-3000	822-1227-001
Radio Interface Unit	RIU-4110	822-1864-002
Radio Interface Unit/W SELCAL	RIU-4110	822-1864-052
Aircraft Configuration Table	ACT-3010	810-0044-009
Attitude Heading Computer	AHC-3000	822-1110-002
AHC Mount	MMT-3010	822-1290-003
Flux Detector Unit	FDU-3000	822-1193-001
External Compensation Unit (FSU)	ECU-3000	822-1200-002
Adaptive Flight Display	AFD-3700	822-3065-001
Software: Advanced Terrain Functions Table	ATFT-3700	810-0385-1H0001
Airframe Parameter Configuration Table	APCT-3700	810-0422-600
Tilt Single Knob Panel	SKP-3500	822-3163-020

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EQUIPMENT	NOMENCLATURE	PART NUMBER
Weather Radar Receiver Transmitter Antenna	RTA-800	822-1050-004
Radio Altimeter	ALT-4000	822-0615-206
TCAS Receiver/Transmitter	TTR-4000	822-1294-032
TCAS Directional Antenna	TRE-920	622-8973-001
VOR/ILS/MB/ADF Receiver	NAV-4000	822-1465-001
VOR/ILS/MB Receiver	NAV-4500	822-1579-001
Single ADF Antenna	ANT-462A	622-7383-001
DME Transceiver	DME-4000	822-1466-001
DME-Mount	MMT-125	622-9670-002
Diversity Transponder	TDR-94	622-9352-501
Diversity Transponder, ADS-B Out	TDR-94D	622-9210-501
TDR Mount	MMT-150	622-9672-003
Software: Flight Management System Application	FMSA-6010	810-0163-1H0001
Software: FMS Search and Rescue Key	SARK-3500	810-0387-001
Software: Onboard Maintenance System Application	OMSA-6000	810-0106-250
Software: Onboard Maintenance System Table	OMST-6000	810-0099-1H0001
Software: Onboard Data Loader Application	ODLA-3500	810-0345-1H0001

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EQUIPMENT	NOMENCLATURE	PART NUMBER
Software: File Server Application	FSA-6000	810-0072-302
Software: Data Link Weather Key	DLWX-3500	810-0353-001
Software: Electronic Charts Key	ECH-3500	810-0361-001
Software: Enhanced Map Overlays Key	OVL-3500	810-0360-001
Software: Video IFIS Key	VID -3500	810-0392-001
Software: Chart Extension Key	CHTX-3500	810-0476-001
XM Weather Key	XMWK-3500	810-0355-001
Software: Information Management System Operating System	IMSOS-3500E	810-0414-201
Wireless USB Adaptor	USB Adaptor	270-3375-060
Information Management System	IMS-3500	822-2999-201
Software: EICAS Application	EICAS-6000	810-0245-1H0001
Global Positioning System (sbas)	GPS-4000S	822-2189-002
Equipment Tray	MCU-2	270-2712-010
Gps Antenna	CI 429-200	CI 429-200