

Publications and Training Solutions

Course Syllabus: 523-0822484

COURSE TITLE: Advanced Cabin Management System (ACMS) Dealer Training
Operation and Maintenance Training (Level I)

PREREQUISITES:

This lesson is a follow on lesson to CMS-1 and covers the CMS-2 network architecture. As both the CMS-1 and CMS-2 make up the Advanced Cabin Management System (ACMS), a good understanding of CMS-1 is required as it is not covered in this lesson. Students should be familiar with MS Windows® based Operating Systems.

PURPOSE:

This course provides maintenance personnel with the ability to operate, maintain, and troubleshoot common issues with the ACMS system. This course does not address customer specific procedures or policies.

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

1. Identify components of the ACMS.
2. Perform maintenance on the ACMS.
3. Perform troubleshooting on the ACMS.
4. Load system software.

COURSE LENGTH: 8 Hours

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REFERENCES:

1. Cabin Management System – One (CMS-1) Installation and Maintenance Manual 523-081448
2. Advanced Cabin Management System (ACMS) Installation and Maintenance Manual 523-0813647
3. Advanced Cabin Management System (ACMS) Fault Isolation Handbook 523-0815432
4. AMCS/CMS-1 Maintenance and Troubleshooting Quick Reference Guide 523-0816165
5. DIAG3000 Operation Manual 523-0815299
6. Line Replaceable Unit (LRU) Technical Specifications
7. LRU Component Maintenance Manuals
8. Example Installation Drawings

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COURSE OUTLINE

0. Welcome & Introductions

1. System Overview

- A. System Overview
- B. System Features
- C. System Management Features
- D. System Operation
- E. Control Characteristics

2. Line Replaceable Unit Description

- A. 962000-101 Area Distribution Box
- B. 963000-103 / 963001-103 Encoder Digital Interface Box
- C. 964000-103 Decoder Digital Interface Box
- D. 2700-1-1 / 2710-1-1 17 Inch LCD
- E. 3210-1-1 5 Disc CD Changer
- F. 3310-1-1 DVD Player
- G. 866-0027-XXX Dual Disc CD/DVD/MP3 Player
- H. 3411-1-1 / 3413-1-1 VCR
- I. MX3000 Handheld Remote Errors

3. System Communication and Architecture

- A. MDSB
- B. IEEE 1394
- C. CMS1, CMS2 and ACMS Block Diagrams

4. Theory of Operation

- A. Passenger A/V Request
- B. DIB Initialization

5. Component Addressing

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- A. Controllers
- B. DIBs
- 6. Audio Leveling**
 - A. GAIN Settings
- 7. Fault Isolation Overview**
 - A. ACMS Failure Flow Chart
 - B. ADB Loop Isolation Sequence
- 8. Drawings and Documentations Overview**
 - A. GAC 416
 - B. RCI 050
- 9. Problems and Resolutions Examples**
 - A. Issue
 - B. Troubleshooting
 - C. Resolution
- 10. Quiz**
 - A. 25 Multiple Choice Questions
- 11. Supplement Reference Material**
 - A. 3 Minute Rule
 - B. CMS2 Jumper
 - C. Switch Panel Power
 - D. 1394 Cables
 - E. Critical Bend radius
 - F. DIB Personality Module

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EQUIPMENT TYPE:

EQUIPMENT	NOMENCLATURE	PART NUMBER
Primary Flight Controller Primary Port Controller	PPC	2050-1-1
Environmental Secondary Controller	Secondary Controller	2052-1-8
IR/RF Remote Receiver (Optional)	IR/RF Remote Receiver	2033-1-1
Touch Screen Remote Control	Display Switch Panel	2507-1-002 / 003
"A" (Actuator) Type Switch Panels	Switch Panel	AY-2501-123-1
High Power Relay Controller	Relay Controller	2056-1-1
Lamp Dimmer	Lamp Dimmer	2058-1-1
Hand Held Remote Control	Hand held remote	2506-1-000 / 001 / 002 / 003 / 004 / 005 / 006 / 007 / 008
Area Distribution Box (ADB)	ADB	962001-101
ADB Mounting Tray	Tray	914095-101
Encoder Digital Interface Box (EDIB)	EDIB	963000-103
Decoder Digital Interface Box (DDIB)	DDIB	964000-103 / 964001-103
Display	17" ACMS Display (Direct 1394 Interface)	2700-1-1
5 Disk CD Changer	CD Player	3210-1-1
Multi-Regional DVD Player	DVD Player	3310-1-1

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Airplay Dual Disc CD/DVD/MP3 Player	Airplay	866-0027-001 / 002 / 004 / 005 / 006
Multi-Regional VCR	VCR	3411-1-1
Multi-Standard VCR	VCR	3413-1-1