

## **Publications, Training, and Logistic Services**

**Course Syllabus: 523-0820485**

**COURSE TITLE:** Embraer Legacy 450/500 and Praetor 500/600 Pro Line Fusion Flight Line Maintenance.

**PREREQUISITES:** Students should have basic knowledge of aircraft avionics systems and a working command of the English language (interpreters are available for special cases).

**PURPOSE:** This course provides line maintenance personnel with training to operate and perform flight-line maintenance for the Embraer Legacy 450/500 and Praetor 500/600 Pro Line Fusion System.

This course is designed to teach troubleshooting for replacement of line replacement units (LRUs) and does not include internal maintenance of any component.

This course meets the requirements of ATA Spec 104 Level 3.

The Pro Line Fusion System consists of the LRUs identified in the section titled EQUIPMENT TYPE by nomenclature and part number, including associated peripheral equipment identified as deliverable hardware.

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

1. Provide an overall understanding of Embraer Legacy 450/500 and Praetor 500/600 Pro Line Fusion Avionics Principles and Operation.
2. Identify System Components and the Functional/Operational Characteristics of each LRU.
3. Identify Typical Aircraft System Interface/System Architecture.
4. Perform Fault Isolation to a faulty LRU using Built-In Maintenance Diagnostics.
5. Perform software loading.

**COURSE LENGTH:** 5 Days

## **Publications, Training, and Logistic Services**

Course Syllabus: 523-0820485

### **TRAINING DEVICES:**

1. Special Test Equipment
  - a. Embraer Legacy 450/500 or Praetor 500/600 Pro Line Fusion Test Rig, Cedar Rapids (if available)
  - b. Embraer Legacy 450/500 or Praetor 500/600 Pro Line Fusion aircraft (if available)

### **TRAINING MATERIALS:**

1. Power Point Presentations with LCD Projector
2. Student Training Material.
3. Information Handouts.

### **REFERENCES:**

1. Embraer Legacy 450/500 and Praetor 500/600 Pro Line Fusion Avionics System Manual  
523-0818861
2. Embraer Legacy 450/500 and Praetor 500/600 Pro Line Fusion Avionics System  
Operator's Guide 523-0818862
3. Embraer Legacy 450/500 and Praetor 500/600 Flight Management System Operator's  
Guide 523-0818863
4. Embraer Legacy 450/500 and Praetor 500/600 Pro Line Fusion Avionics System  
Diagnostic Guide 523-0818864
5. Embraer Legacy 450/500 and Praetor 500/600 HGS-3500 Head-Up Guidance System  
with EVS System Maintenance Manual 523-0825647

## **Publications, Training, and Logistic Services**

Course Syllabus: 523-0820485

### **COURSE SYLLABUS**

#### **0. Welcome & Introductions**

- A. Course Overview
- B. Registration
- C. Course Description
- D. Course Objectives
- E. Course Outline
- F. Publications and Services
- G. Summary

#### **I. Display System**

- A. Overview
  - 1. Adaptive Flight Displays (AFD)
  - 2. Control Tuning Panel (CTP)
  - 3. Cursor Control Panel (CCP)
  - 4. Multifunction Keyboard Panel (MKP)
  - 5. Reversion Switch Panel (RSP)
- B. Equipment Description
  - 1. Adaptive Flight Displays (AFD)
  - 2. Control Tuning Panel (CTP)
  - 3. Cursor Control Panel (CCP)
  - 4. Multifunction Keyboard Panel (MKP)
  - 5. Reversion Switch Panel (RSP)
- C. Equipment Location
- D. Display Formats
- E. Display Reversion

## **Publications, Training, and Logistic Services**

Course Syllabus: 523-0820485

F. Comparators/Failures

G. AFD Theory

### **II. Integrated Processing System (IPS)**

A. Overview

1. Integrated Processing Cabinet and Installed Modules
2. Common Computing Cabinet
3. Situation Awareness Cabinet
4. Installed Application Software

B. Integrated Processing Cabinet

1. IPC-6210 Left Cabinet
2. IPC-6230 Right Cabinet

C. Common Computing Cabinet

1. Modules
2. Theory

D. Situation Awareness Cabinet

1. Modules
2. Theory

E. Installed Application Software

F. IPS Theory

### **III. Data Concentration System (DCS)**

A. Overview

1. Data Concentrator Unit Module Cabinet (DMC)
2. Aircraft Personality Module
3. Installed Software Applications
4. Engine Indicating Crew Alerting System (EICAS)
5. Stall Protection System (SPS)

## **Publications, Training, and Logistic Services**

Course Syllabus: 523-0820485

- B. Data Concentrator Unit Module Cabinet (DMC)
  - 1. DMC Cover and Environmental Module (CEM-6000)
  - 2. Data Concentrator Module (DCM-6000)
  - 3. Data Concentrator Power Producing Module (PPM-6000)
  - 4. Data Concentrator Input/Output Module (IOM-6000)
  - 5. Data Concentrator Input/Output Module (IOM-6500)
  - 6. Aircraft Personality Module (APM-5000)
  
- C. Data Concentrator System
  - 1. Crew Alerting System (CAS)
  - 2. Checklists
  - 3. Aural Alerting
  - 4. Data Acquisition and Distribution
  
- D. EICAS
  - 1. Engine Indicating System
  - 2. System Synoptics
- E. Stall Protection System
- F. EICAS Theory
- G. Summary

### **IV. Dataloading**

- A. Overview
  - 1. Information Management System
  - 2. IMS-6010
  - 3. Terminology
  
- B. Data Load Architecture
  
- C. Data Load Procedures
  - 1. Load Aircraft Software Set
  - 2. Load New Databases

## **Publications, Training, and Logistic Services**

Course Syllabus: 523-0820485

3. Load New Documents & Tables
4. Load Aircraft Software Set
5. Load New/Misconfigured LRU Item
6. Reload LRU
7. Enable Application License Keys

D. Data Loading Theory

E. Summary

### **V. Onboard Maintenance System (OMS)**

A. Overview

1. Onboard diagnostics
2. Aircraft Condition Monitoring
3. Diagnostic downloads

### **VI. Synthetic Vision System (SVS)**

A. Overview

B. SVS Components

C. Removal/Installation

D. SVS Elements

E. Display Images

F. Operator Interface

G. SVS Theory

H. SVS for Credit

I. CAS Messages

J. SVS Block Diagram

K. Summary

## **Publications, Training, and Logistic Services**

Course Syllabus: 523-0820485

### **VII. Head-Up Display (HUD) and Enhanced Vision System (EVS)**

- A. Overview
  - 1. Head-Up Guidance System (HGS-3500)
  - 2. Enhanced Vision System
  
- B. Head-Up Guidance System (HGS-3500)
  - 1. Pilot Display Unit (PDU-3500)
  - 2. Power Supply Unit (PSU-3500)
  - 3. HUD Processing Hardware and Software
  
- C. Enhanced Vision System
  - 1. Enhanced Vision Sensor (EVS-3000)
  - 2. EVS Electronic Alignment

### **VIII. Air Data System (ADS)**

- A. Air Data Computer
- B. Aircraft Configuration Table
- C. Indications
- D. Reversionary Mode
- E. ADS Theory
- F. Troubleshooting
- G. Summary

### **IX. Attitude Heading System (AHS)**

- A. Attitude Heading Computers
  - 1. AHC-4000/AHC-3000/IRS

## **Publications, Training, and Logistic Services**

Course Syllabus: 523-0820485

B. Displays and Indications

C. Reversionary modes

D. Summary

### **X. Automatic Flight Control System (AFCS)**

A. Overview

B. Flight Control System Application

C. Flight Control Panel

D. Servos

E. Flight Director

F. Autopilot/Yaw Damper/Trim

G. Autothrottle

H. AFCS Theory

I. Summary

### **XI. Integrated Information System (IFIS)**

A. File Server Applications

B. Electronic Charts

C. Enhanced Map Overlays

D. Graphical Weather

E. IFIS Theory

F. Summary

### **XII. Flight Management System (FMS)**

A. Overview

B. Flight Planning



## **Publications, Training, and Logistic Services**

Course Syllabus: 523-0820485

C. FMS Theory

D. Summary

### **XIII. Surface Management System (SMS)**

A. Overview

B. Flight Planning

### **XIV. Communication System (COMMS)**

A. Digital Audio System

B. Radio Management

C. VHF-4000

D. HF-9000

E. Summary

### **XV. Navigation Systems (NAV)**

A. NAV-4500

B. DME-4000

C. GPS-4000

D. Radio Altimeter-4000

E. Surface Management System

F. Summary

### **XVI. TSS/TAWS**

A. Component Description

B. Component Location

C. System Operation

D. Cockpit Display of Traffic Information (CDTI)

E. Summary

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Course Syllabus: 523-0820485

### **XVII. MultiScan™ Weather Radar**

- A. Receiver Transmitter Assembly (RTA)
- B. Weather Radar Fundamentals
- C. MultiScan™ Theory
- D. Predictive Windshear/Vertical Weather options
- E. Operation
- F. Summary

### **XVIII. Course Summary**

- A. Review
- B. Summary
- C. Final Test
- D. Course Critique

**Publications, Training, and Logistic  
Services**

Course Syllabus: 523-0820485

**EQUIPMENT TYPE:**

<b>UNIT</b>	<b>DESCRIPTION</b>	<b>PART NUMBER</b>
<b>Aircraft Communication and Reporting System (ACARS)</b>		
eCDA	Emulated Control Display Application	810-0233-060
<b>Attitude Heading Reference System (AHRS)</b>		
AHC-3000	Attitude Heading Computer	822-1110-002
AHC-4000	Attitude Heading Computer	866-0123-110
AHC-4000-IDM	Installation Data Module (AHC-4000)	866-0123-041
AHC-4000-MTF	Mounting Tray (AHC-4000)	866-0123-050
ECU-3000	External Compensation Unit (AHC-3000)	822-1200-205
MMT-3010	Attitude Heading Mount (AHC-3000)	822-1290-003
<b>Audio System</b>		
ACP-6000	Audio Control Panel	822-2928-100
<b>Automatic Flight Control System (AFCS)</b>		
FCP-5070	Flight Control Panel	822-2826-001
FCSA-5000	Flight Control System Application (Automatic Flight Control System (AFCS) and Autothrottle (A/T))	810-0046-1E0003
FCST-5000	Flight Control System Table	810-0236-1E0003
FCTK-5000	Dual Autothrottle Software Key (Option)	810-0333-001
<b>Data Concentration System (DCS)</b>		
APM-5000	Aircraft Personality Module	822-2195-001
CEM-6000	Cover and Environmental Module	822-2401-001
DCM-6000	Data Concentrator Module	822-2394-002
DCU-3110	Data Concentrator Unit (I/O Growth)	822-2575-201

## Publications, Training, and Logistic Services

Course Syllabus: 523-0820485

DMC-6000	Data Concentrator Module Cabinet -261 -262 (v6.X and later)	822-2403-261 822-2403-262
IOM-6000	Input Output Module	822-2396-062
IOM-6500	Input Output Module	822-2397-061
PPM-6000	Power Producing Module	822-2395-002
ALMA-6000	Application License Manager Application	810-0208-002
DCMR-6000	Data Concentrator Module Runtime Software -004 -005 (V6.2 and later)	810-0179-004 810-0179-005
EICAS-6000	Engine Indication and Crew Alerting System -1E0010 (V4.1) -1E0011 (V4.1.1) -1E0015 (V5.X) -1E0020	810-0245-1E00XX
IOCA-6000	Input/Output Concentrator Application	810-0193-002
<b>Data Link Graphical Weather (DLGWX)</b>		
DLGWX-6100	Data Link Graphical Weather Key (Single IFIS)	810-0139-001
DLGWX-6200	Data Link Graphical Weather Key (Dual IFIS)	810-0140-001
GWXK-6200	Graphical Weather Access Key (RIU/ECU)	810-0369-100
<b>Display System (DS)</b>		
AFD-6520	Adaptive Flight Display, 15.1 Inch -430 (V4.1 +)	822-2332-300 822-2332-302 822-2332-430

## Publications, Training, and Logistic Services

Course Syllabus: 523-0820485

CCP-6120	Cursor Control Panel -001 (Standard) -002 (Cleanable)	822-2837-001 822-2837-002
DCP-5080	Display Control Panel	822-2839-001
IMT-6500	Instrument Mounting Tray	822-2337-007
MKP-6100	Multi-Function Keyboard Panel	822-2858-001
RSP-6000	Reversion Switch Panel -001 (Pilot Side) -100 (Co-Pilot Side)	866-0218-001 866-0218-100
AFDR-6500	Adaptive Flight Display Runtime	810-0180-004 810-0180-005
FDSA-6500	Flight Display System Application -1E0003 (V4.X) -1E0010 (V5.X) -1E0012	810-0234-1E-00XX
MKPA-6100	Multi-Function Keyboard Panel Application -001 (V4.X and Prior) -002 (V5.X)	810-0223-001 810-0223-002
<b>Distance Measuring Equipment (DME)</b>		
DME-4000	DME Transceiver	822-1466-001
MMT-125	Mount (Single Installation)	622-9670-002
<b>Enhanced Vision System (EVS)</b>		
EVS-3000	Enhanced Vision System Sensor	1500-3630-001
<b>Flight Management System (FMS)</b>		
eCDA	Emulated Control Display Application	810-0233-060
FMSA-6010	Flight Management System Application	810-0163-1E0004
FMS-PERF	FMS Performance Database	096-4750-001

## Publications, Training, and Logistic Services

Course Syllabus: 523-0820485

		096-4750-002
FTLV-6000	FMS Take-Off and Landing V Speeds	810-0507-001
<b>Global Navigation Satellite System (GNSS)</b>		
GPS-4000S	Global Positioning System Receiver (SBAS Capable) -010 (V3.1) -100 (V5.1)	822-2189-010 822-2189-100
MCU-2	Equipment Tray, 2 MCU ARINC	270-2712-010
<b>HF Communications System (Option)</b>		
FL-9012	HF Feed Line	822-3030-001
HF-9031A	HF Transceiver	822-0101-002
HF-9041	HF Antenna Coupler	685-0350-002
HFCAN	HF Antenna Port Can Shield	752-5871-001
HFCANCL	HF Antenna Port Can Clamp	013-0995-000
MT-9030A	HF Radio Mount	622-8116-001
MT-9042A	HF Antenna Coupler Mount	622-8124-001
<b>Head-Up Guidance System (HGS) (Option)</b>		
PDU-3500	Pilot Display Unit	1500-3570-001
PSU-3500	Power Supply Unit	1500-3590-001
SVM-6110H	Synthetic Vision Module w/HUD Graphics Card (HGC)	822-2539-101
HDA-3500	HUD Display Software	810-0421-1E0004 810-0421-1E0005
HMA-3500	HUD Monitor Software -1E0004 -1E0005 (V6.2 and later)	810-0418-1E0004 810-0418-1E0005

## Publications, Training, and Logistic Services

Course Syllabus: 523-0820485

<b>Integrated Flight Information System (IFIS)</b>		
DOC-6100	Document Reader Key	810-0149-001
ECH-6100	Electronic Charts Key (Single IFIS)	810-0136-001
ENR-6100	Enroute Charts Key (Single IFIS)	810-0146-001
FDRK-6000	Flight Deck Recorder Interface Key	810-0240-001
FSA-6000	File Server Application (Single IFIS) -004 -006 (V6.X)	810-0072-004 810-0072-006
OAFK-6000	Obstacle Avoidance Key	810-0319-001
OVL-6100	Electronic Maps Overlay Key	810-0132-001
OVL-6200	Electronic Maps Overlay Key	810-0134-001
VID-6000	Standard Analog Video Key	810-0169-001
VID-6001	EVS Video Key	810-0170-001
<b>IFIS Dual (Paperless Cockpit)</b>		
CCM-5110	Common Computing Module (2 <sup>nd</sup> IFIS Option)	822-1991-002
DOC-6200	Document Reader Key – Dual IFIS	810-0150-001
ECH-6200	Electronic Charts Key – Dual IFIS	810-0137-001
ENR-6200	Enroute Charts Key – Dual IFIS	810-0147-001
FSA-6000	File Server Application (2 <sup>nd</sup> IFIS) -004 -006 (V6.X)	810-0072-004 810-0072-006
OVL-6200	Enhanced Maps Overlay Key – Dual IFIS	810-0134-001
RNP-6000	RNP SAAAR=>0.3	810-0201-001
<b>Information Management System (IMS)</b>		
IMS-6000	Information Management System	822-2327-001
IMS-6010	Information Management System	822-3132-301

## Publications, Training, and Logistic Services

Course Syllabus: 523-0820485

IMSA-6000	IMS Application	810-0096-007
IMSA-6010	IMS Application	810-0331-005 810-0331-006 810-0331-007 810-0331-008 810-0331-009 810-0331-010
IMSB-6010	IMS Binary Definition File	810-0531-001
IMSOS-6000	IMS Operating System	810-0278-007
IMST-6010	IMS Table -1E0003 -1E0020 (V6.1 and later)	810-0332-1E0003 810-0332-1E0020
MAA-6000	Wireless LAN Antenna	822-3156-001
<b>Integrated Processing System (IPS)</b>		
CEM-6210	Cover and Environmental Module	822-2405-101
CEM-6230	Cover and Environmental Module	822-2814-101
CCM-5110	Common Computing Module	822-1991-002
DSM-5110	Digital Switching Module	822-2133-001
IPC-6210	Integrated Processing Cabinet	822-2404-201
IPC-6230	Integrated Processing Cabinet	822-2813-251
PEM-6210	Power and Environmental Module	822-2352-001
AMMA-6000	Airport Moving Map (AMM) Application	810-0325-002
AMMK-6100	AMM Key – APM Key	810-0323-001
AMMT	AMM Configuration Table	810-0322-1E0001
CCMR-5110	CCM Runtime	810-0176-004 810-0176-005
DSMR	DSM Application Software	810-0178-001



## Publications, Training, and Logistic Services

Course Syllabus: 523-0820485

IMAA-6000	Integrated Modular Avionics Application -1E0010 (V5.X non-HUD) -1E0020 (V6.X non-HUD) -1E0210 (V5.X HUD) -1E0220 (V6.X HUD)	810-0311-1E0XXX
IMAT-6000	Integrated Modular Avionics Table - Aircraft Personality Module Table (ACMT) Input Output Concentrator Table (IOCT) Network Configuration Table (NCT) Virtual Machine Configuration Table (VCT) -1E0010 -1E0020 (V6.X)	810-0181-1E0010 810-0181-1E0020
TLAF-5000	Take-Off and Landing Function	810-0165-001
<b>Lightning Detection System (LDS)</b>		
WX-1000	Lightning Detection System Antenna	270-2687-030
WX-1000E	Lightning Detection System Processor	270-2687-010
WX-1000MT	Lightning Detection System	270-2687-020
<b>Onboard Maintenance System (OMS)</b>		
CMSA-6000	Configuration Manager System Application	810-0229-005
OMSA-6000	Onboard Maintenance System Application -020 (V5.2 and prior) -301 (V5.3 and above) -310	810-0106-020 810-0106-301 810-0106-310
OMST-3500	Onboard Maintenance System Table -1E0010 (V4.X) -1E0003 (V5.X) -1E0004	810-0099-1E00XX
<b>Radio Altimeter System (RAS)</b>		

## Publications, Training, and Logistic Services

Course Syllabus: 523-0820485

ALT-4000	Radio Altimeter	822-0615-206
UMT-12	Mount	622-5212-004
<b>Radio Management System (RMS)</b>		
ECU-3000	External Compensation Unit	822-1200-996
MMT-130	Mount (Single)	622-9671-002
RIU-4010	Radio Interface Unit with SELCAL and Datalink -631 -633 (Certified V5.4) -635 -637	822-1863-63X
RIU-4010	Radio Interface Unit without SELCAL and with Datalink -632 (1 <sup>st</sup> Generation) -634 (2 <sup>nd</sup> Generation, Certified V5.4) -636 (3 <sup>rd</sup> Generation) -638 (4 <sup>th</sup> Generation)	822-1863-63X
RIU-4110	Radio Interface Unit with SELCAL -231 (1 <sup>st</sup> Generation) -233 (2 <sup>nd</sup> Generation, Certified V5.4) -235 (3 <sup>rd</sup> Generation) -237 (4 <sup>th</sup> Generation)	822-1864-23X
RIU-4110	Radio Interface Unit without SELCAL -232 (1 <sup>st</sup> Generation) -234 (2 <sup>nd</sup> Generation, Certified V5.4) -236 (3 <sup>rd</sup> Generation) -238 (4 <sup>th</sup> Generation)	822-1864-23X
PMA-6000	Protocol Manager Application -003 (V5.2 and earlier)	810-0192-0XX

## Publications, Training, and Logistic Services

Course Syllabus: 523-0820485

	-070 (V5.3)	
RTSA-5000	Radio Tuning System Application	810-0048-401
<b>Standby Flight Information System (SFIS)</b>		
MGR-3000	Magnetometer (MAG), right-angled pigtail with tolerance 0.5-inches	866-0206-020
OCM-3900	Option Control Module	866-0210-010 or 866-0210-020
SFIS-3900	Standby Flight Instrument System	866-0205-200
SFIS-MNT	Standby Flight Instrument Clamp, ARINC-408, 3 Air Technical Index (ATI), 4-inch clamp with black screws	139-0969-030
OCMT-3900	Option Control Module Table	810-0253-1E0003 or 810-0253-1E0004
SFIA	Standby Flight Instrument Application	810-0252-003 or 810-0252-005
<b>Synthetic Vision System (SVS)</b>		
SVM-6110	Synthetic Vision Module	822-2323-001
SVSA-6000	Synthetic Vision System Application	810-0074-004 810-0074-006
SVCK-6000	Synthetic Vision System for Credit Key	810-0351-001
SVST-6000	Synthetic Vision System Table	810-0260-1E0001
<b>Terrain Awareness and Warning System (TAWS)</b>		
CCM-6210	Common Computing Module, 440 Processor	822-2192-002
TPM-6000	TAWS Processing Module	822-2586-001
TPMA-6000	Terrain Processing Module Application	810-0088-210
TPSA-6000	Terrain Processing System Application	810-0083-215
<b>Traffic Surveillance System (TSS)</b>		

## Publications, Training, and Logistic Services

Course Syllabus: 523-0820485

ECU-3000	External Compensation Unit -TDR, TCAS	822-1200-802
ECU-3000	External Compensation Unit – TDR, TCAS, Ext. Squitter	822-1200-803
MMT-150	Mount ½ ATR, Short, Dwarf	622-9672-004
TDR-94D	Diversity Transponder (Non ADS-B Out) -311 -312 (Deviation)	622-9210-31X
TDR-94D	Diversity Transponder (ADS-B Out) -411 (260A ADSB-Out) -412 (260A ADSB-Out, Deviation) -501 (260B ADSB-Out)	622-9210-XXX
TSA-4100	TSS Directional Antenna	866-0016-101
TSM-4100	Traffic Surveillance Mount	866-0128-020
TSS-4100	TCAS and Transponder Unit	822-2132-001 822-2132-002
CDTI-4100	Cockpit Display Traffic Info SW Key	810-0382-001
TSSA-4100	TSS TCAS and Transponder Application Software -002 (V6.X) -010 -012 (Deviation) -013 (V6.X) -100 -101 (FAA Deviation) -102 (Coasting) -110 (V.X)	810-0052-XXX
TSSE-4100	TSS Configurable Media Set	810-0250-090 810-0250-091 810-0250-093

## Publications, Training, and Logistic Services

Course Syllabus: 523-0820485

		810-0250-094
<b>VHF Communications System and VHF Datalink</b>		
MMT-125	Mount (Single Installation)	622-9670-002
VHF-4000	VHF Comms Transceiver – 8.33 kHz	822-1468-110
VHF4000	VHF Comms Transceiver – 8.33 kHz, Datalink	822-1468-390
ATN-6200	CPDLC (Link 2000) APM Key	810-0187-001
ATN-6200	CPDLC – RIU/ECU Key	810-0187-100
DLCA-6500	Datalink Communications Application	810-0315-050 810-0315-051 815-0315-350
FAN-6200	FANS ATC Data Link Key (CPDLC)	810-0186-001
FPLK-6200	Flight Plan Uplink Key (RIU/ECU)	810-0368-100
<b>VHF Navigation System (Includes ADF Option)</b>		
ANT-462A	ADF Antenna (Single)	622-7383-001
ANT-462B	ADF Antenna (Dual)	622-7384-001 622-7384-002
MMT-125	Mount (Single Installation)	622-9670-002
NAV-4000	NAV-4000	822-1465-101
NAV-4500	NAV-4500	822-1579-101
<b>Multiscan™ Weather Radar (WXR) System</b>		
RTA-4118	Weather Radar, 18 inch diameter	822-2256-001
RTA-4218	Weather Radar, 18 inch diameter, with Predictive Windshear	822-2259-001 822-2259-002
WXRK-4000	Weather Radar Key – Turbulence	810-0266-001
WXRK-4001	Weather Radar Key – Enables Multiscan Mode	810-0267-001

## Publications, Training, and Logistic Services

Course Syllabus: 523-0820485

WXRK-4002	Weather Radar Key – Enables Multiscan Mode with Predictive Windshear	810-0365-001
WXRK-4003	Weather Radar Key – Enables Multiscan Mode with Vertical Weather	810-0366-001
<b>XM Graphical Weather (GWX) Option</b>		
XMA-1000	XM Weather Antenna	822-2030-001
XMWR-1000	XM Weather Receiver	822-2031-003
XMWR-1000S	SXW Weather Receiver (V6.X and later)	822-3365-001
XMGWX-6100	XM Graphical Weather (Single IFIS)	810-0143-001
XMGWX-6200	XM Graphical Weather (Dual IFIS)	810-0144-001