

Publications and Training Solutions

Course Syllabus: 523-0808757

COURSE TITLE: Pro Line II – Turbulence Weather Radar System (TWR-850)
Flight Line Maintenance (Level I)

PREREQUISITES:

Students should have a basic knowledge of aircraft avionics systems and a working command of the English language. Students should be familiar with MS Windows® based Operating Systems.

PURPOSE:

This course provides line maintenance personnel with the training to operate and perform flight line maintenance for the Pro Line II Turbulence Weather Radar System (TWR-850).

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

1. Identify displays, annunciations, and control features.
2. Detect system hazards and safety concerns.
3. Determine normal and abnormal operations and analyze radar returns.
4. Identify system diagnostics procedures to isolate a system fault.
5. Utilize subsystem schematics and troubleshooting procedures to determine faulty components.

COURSE LENGTH: 1 Hour 15 Minutes

REFERENCES:

- | | |
|--|-------------|
| 1. TWR-850 Turbulence Weather Radar System Installation Manual | 523-0774651 |
| 2. Installation Practices Manual Instruction Book | 523-0821285 |

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COURSE OUTLINE

0. Welcome & Introductions

A. Objectives

1. System Displays, Annunciations, and Hazards

A. Introduction

B. Displays and Annunciations

C. System Hazards and Safety

2. Normal and Abnormal Operations

A. Introduction

B. System Diagnostics

C. System Schematics and Troubleshooting

3. Diagnostics and Troubleshooting

A. Introduction

B. Subsystem Schematics

C. Troubleshooting

4. Summary

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EQUIPMENT TYPE:

EQUIPMENT	NOMENCLATURE	PART NUMBER
Multifunction Display	MFD-85A	622-7236-001 / 002 / 011 / 012 / 201 / 202
Multifunction Display	MFD-85B	622-7876-011 / 012 / 211 / 212
Multifunction Display	MFD-85C	622-9849-001 / 002 / 011 / 012 / 201 / 202
Multifunction Display	MFD-85M	822-1001-012 / 121 / 122
Receiver/Transmitter Antenna	RTA-852	622-8439-001 / 002 / 003 / 011
Receiver/Transmitter Antenna	RTA-852L	622-9080-001 / 002 / 003 / 004 / 005 / 006 / 011
Receiver/Transmitter Antenna	RTA-854	622-8440-001 / 002 / 003 / 004 / 011
Receiver/Transmitter Antenna	RTA-858	622-8441-001 / 002 / 003 / 004 / 011
Weather Radar Control Panel	WXP-850A	622-8393-001 / 002 / 003 / 004 / 011 / 012 / 013 / 014
Weather Radar Control Panel	WXP-850B	622-8394-001 / 002 / 003 / 004 / 011 / 012 / 013 / 014