

Cape Cod Community College AMTS

Practical Project Guide for AMT 233 Fire Protection Systems, Subject Item 55

Part 147, Appendix C, Part 2, Subject J. Fire Protection Systems

Item 55. Inspect, check, service, troubleshoot, and repair aircraft fire detection and extinguishing systems (Level 3)

Project 1

Purpose: To familiarize the student with the principles of inspecting, troubleshooting, repairing and servicing of an aircraft fire detection and extinguisher system.

References:

- (1) 14 CFR Federal Aviation Regulations for Aviation Maintenance Technicians, Aviation Maintenance Technician Handbook – Airframe, Volume 2 (FAA-H-8083-31), Chapter 17
- (2) AVOTEK AS360 Operation Manual

Equipment and Tools Needed:

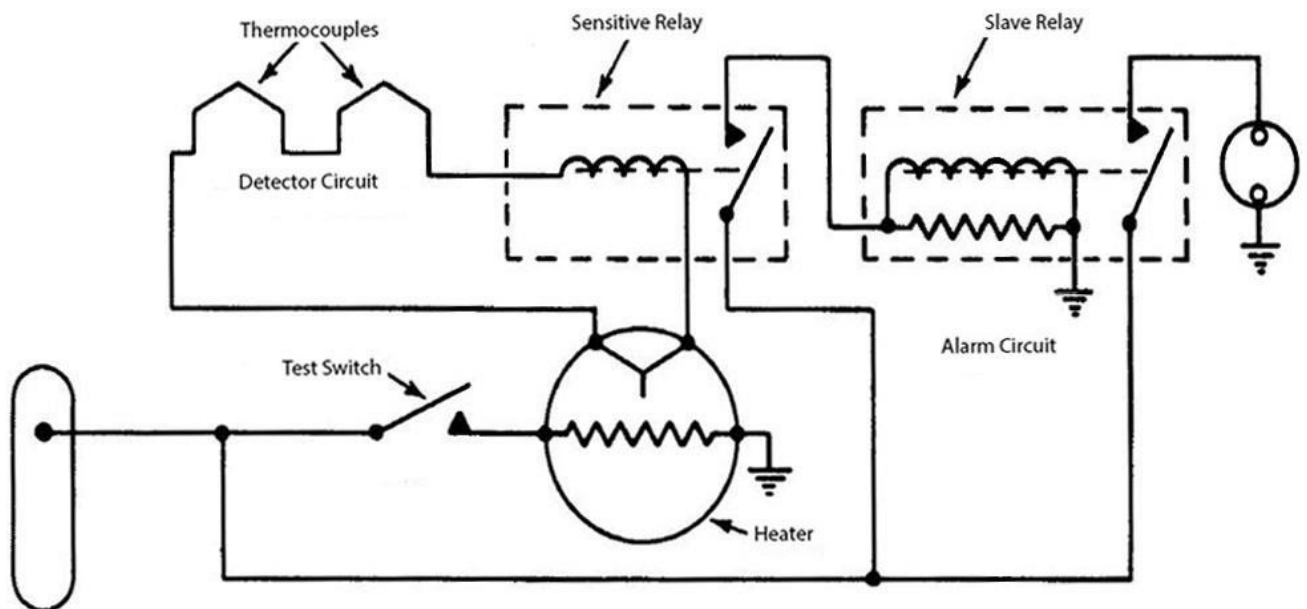
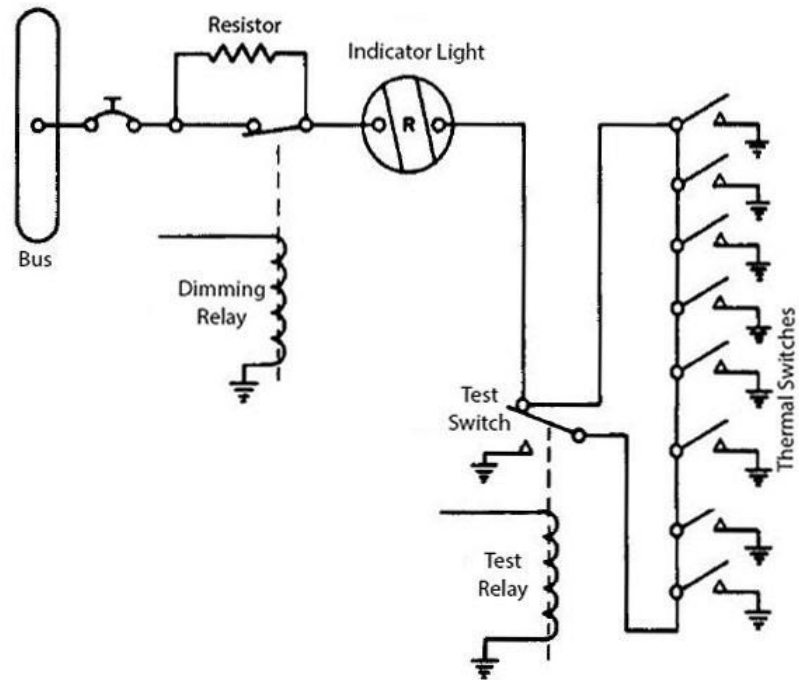
- (1) AVOTEK AS360 Fire Detection and Extinguishing System Trainer
- (2) Multimeter
- (3) Industrial Heat Gun

Supplies and Materials Needed:

- (1) N/A

Procedure:

- (1) The students will familiarize themselves with the proper operation and test procedures of the AVOTEK AS360 Fire Detection and Extinguishing System trainer.
- (2) The AS360 Fire detection and extinguisher systems will be inspected and checked to establish proper working parameters of the system.
- (3) The student will draw a simple thermal fire detection switch system to better understand proper troubleshooting areas or locations.
- (4) Using a Multimeter for troubleshooting, the student will troubleshoot and repair the fire detection and extinguishing system of electrical shorts, opens and incorrect voltage readings.
- (5) The student will service the fire extinguisher bottle, following all safety guidelines.



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