



# Advisory Circular

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**Subject:** Digital Clock Installation in Aircraft

**Date:** 4/13/07

**AC No:** 20-94A

**Initiated by:** AFS-350

**1. PURPOSE.** This advisory circular (AC) provides guidelines for operating and installing digital clocks in aircraft.

**2. CANCELLATION.** AC 20-94A, Digital Clock Installation in Aircraft, dated March 4, 1976, is canceled.

**3. RELATED REGULATION REFERENCES.**

**a.** Civil Air Regulation (CAR) parts 3, 4a, 4b and 6.

**b.** Title 14 of the Code of Federal Regulations (14 CFR) parts 23, 25, 27, 29, 43, 91, 121, 125 and 135.

**4. BACKGROUND.** To promote safety, our regulations should be sufficiently flexible to permit the use of more advanced timing devices equivalent to sweep-second hand clocks. Inquiries from members of the aviation community and manufacturers have indicated a need for information concerning approval and installation of digital clocks on certificated aircraft.

**5. EQUIPMENT.** Digital clocks may be approved for installation in certificated aircraft as specified in § 91.205(a) in place of clocks with sweep-second hands.

**6. INSTALLATION CRITERIA.**

**a.** A display of hours, minutes, and seconds may appear simultaneously or be individually selected.

**b.** The installation should be accomplished in accordance with the current edition of AC 43.13-2, Acceptable Methods, Techniques and Practices, Aircraft Alterations. In addition, the clock and airframe manufacturer's instructions should be consulted.

**c.** The clock function switch position identification and the digital readout should be readable in all lighting conditions from the pilot's normal position.

**7. TESTING.** Each person performing the installation of a digital clock should complete adequate testing to assure that the original type certification of the aircraft has not been compromised and that the aircraft is in airworthy condition.

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**8. INSTALLATION APPROVAL.** The owner or operator will ensure that the digital clock installation was done in accordance with data either accepted or approved by the Administrator, based on the type certification of the aircraft.

ORIGINAL SIGNED BY

Carol Giles for

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