

**SUPPLEMENT E4  
TO THE AIRPLANE FLIGHT MANUAL  
DA 40, DA 40 F  
DIGITAL CHRONOMETER  
MODEL 803  
DAVTRON**

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Authority :

Stamp :


Date of approval :

  
  
AUSTRO CONTROL GmbH  
Abteilung Flugtechnik  
Zentrale  
A-1030 Wien, Schnirchgasse 11  
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**DIAMOND AIRCRAFT INDUSTRIES GMBH  
N.A. OTTO-STR. 5  
A-2700 WIENER NEUSTADT  
ÖSTERREICH**

**0.1 RECORD OF REVISIONS**

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## 0.2 LIST OF EFFECTIVE PAGES

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## **1. GENERAL**

This Supplement supplies the information necessary for the efficient operation of the airplane when the Digital Chronometer Model 803 is installed. The information contained within this Supplement is to be used in conjunction with the complete AFM.

This Supplement is a permanent part of this AFM and must remain in this AFM at all times when the Digital Chronometer Model 803 is installed.

## **2. LIMITATIONS**

No change.

## **3. EMERGENCY PROCEDURES**

No change.

## **4A. NORMAL OPERATING PROCEDURES**

No change.

## **4B. ABNORMAL OPERATING PROCEDURES**

No change.

## 5. PERFORMANCE

No change.

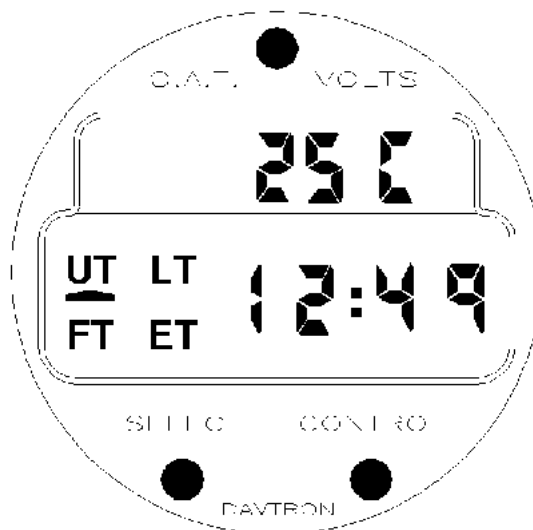
## 6. MASS AND BALANCE

Upon removal or installation of the Digital Chronometer Model 803 the change of empty mass and corresponding center of gravity of the airplane must be recorded according to Chapter 6 of the Airplane Flight Manual.

## 7. DESCRIPTION OF THE AIRPLANE AND ITS SYSTEMS

### GENERAL

The chronometer consists of a front panel with 3 push button switches and an LC-Display. The switches have legends to indicate the function of the switch. The LC-Display has backlighting.



## CHRONOMETER OPERATION

### NORMAL OPERATION

The Select (SEL) button selects what is to be displayed and the Control (CTL) button controls what is being displayed. Pressing SEL sequentially selects Universal Time (UT), Local Time (LT), Flight Time (FT), Elapsed Time (ET), and back to UT. The CTL button resets Flight Time (FT) back to zero when held down for three seconds. The CTL button also starts and resets Elapsed Time when momentarily pushed. Normal operation of the M803 cannot accidentally reset the time.

### SETTING UT

Select UT for display with the SEL button. Press simultaneously both the SEL and CTL buttons to enter set mode. The tens of hours digit will start flashing. The CTL button has full control of the flashing digit, and each button push increments the digit. Once the tens of hours digit is set, the SEL button selects the next digit to be set. After the last digit has been selected and set with the CTL button, a final push of the SEL button exits set mode. The lighted annunciator will resume its normal flashing, indicating that the UT chronometer is running.

### SETTING LT

Select Local Time (LT) using the SEL button. Simultaneously push the SEL and CTL button to enter set mode. The tens of hours digit will start flashing. The set operation is the same as for UT, except that minutes are already synchronized with the UT chronometer and cannot be set in Local Time.

### CONTROL/SELECT DISABLE

When there is no airplane power applied to the chronometer the CTL and SEL buttons are disabled.

### SETTING FLIGHT TIME ALARM

When Flight Time (FT) is displayed enter the set mode by pressing both buttons simultaneously. The alarm time is entered identically to UT setting. When the Flight Time equals the alarm time, the display will flash and the alarm output activated. If FT was not being displayed at the time the alarm becomes active, the chronometer automatically selects FT for display. Pressing either the SEL or CTL button turns off the alarm and zeros the alarm time. Flight Time is unchanged and continues counting.

### FLIGHT TIME RESET

FT must be displayed when resetting. Hold CTL down for 3 seconds, or until 99:59 appears on the display. Flight Time will be zeroed upon release of the CTL button.

### ET COUNT UP

Select ET for display. Pressing the CTL button will start ET counting. Elapsed Time counts up to 59 minutes, 59 seconds, and then switches to hours and minutes. It continues counting up to 99 hours and 50 minutes. Pressing the CTL button again resets ET to zero.



### ELAPSED TIME COUNT DOWN

Select ET for display and enter set mode by pressing both buttons simultaneously. A count down from any time, a maximum of 59 minutes and 59 seconds can be set. The time is entered the same as the UT setting. Once the last digit is set, pressing the SEL button exits the set mode and the chronometer is ready to start the countdown. Pressing the CTL button now will start the countdown. The alarm becomes active at zero, flashes the displays and enables the external alarm. Pressing either button, SEL or CTL, will reset the alarm. After reaching zero the ET counter will count up.

### TEST MODE

Hold the SEL button down for three seconds and the display will indicate 88:88 and activate all four annunciators.

### OAT AND VOLTS OPERATION

The one red button controls steps through E, F and C and the repeats. The initial power up will always select voltage. One press and release selects Outside Air Temp in degrees Fahrenheit. The next button operation selects Outside Air Temperature in degrees Centigrade.

## **8. AIRPLANE HANDLING, CARE AND MAINTENANCE**

No change.