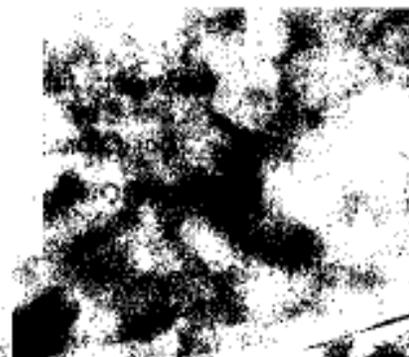


9900 CLOCK

Operations Manual



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OPERATIONS MANUAL

CORCOMP CLOCK CALENDAR STAND ALONE UNIT

INTRODUCTION

The CorComp Clock Calendar Stand Alone Unit (Clock Calendar SAU) allows the user to set and read the:

- Day of the week
- Month
- Day
- Year
- Hour
- Minute
- Second

Time is based on the 24 hour clock and leap year is handled automatically without user intervention.

The Clock Calendar SAU can be accessed through either TI Basic or TI Extended Basic. It utilizes the following four commands: OPEN, PRINT, INPUT and CLOSE.

The Clock Calendar SAU also includes a Load Interrupt Switch that when manually pressed will generate a load interrupt command to the computer. This in turn will allow the use of many utility programs, such as a screen dump program, which require this feature.

INSTALLING THE CLOCK CALENDAR SAU

1. Turn off the computer and everything connected to the computer.
2. To avoid damage to any of the parts, wait at least two minutes after turning the power off before plugging or unplugging anything to or from your computer system.
3. Plug the the Clock Calendar SAU into the side of the computer. NOTE: If you have a speech synthesizer and/or a CorComp 9900 Micro Expansion System, it is recommended that these units be plugged into the computer first and then plug the Clock Calendar SAU so that it is the last unit in the chain.
4. Turn on the power to all of the units in your system with the computer being the last unit to have the power turned on.

***** WARNING *****

TO AVOID DAMAGE TO ANY OF THE PARTS, WAIT AT LEAST TWO MINUTES AFTER TURNING POWER OFF BEFORE PLUGGING THE CLOCK CALENDAR SAU INTO THE SYSTEM, OR PLUGGING ANYTHING INTO YOUR COMPUTER SYSTEM. WAIT AT LEAST TWO MINUTES AFTER TURNING THE POWER OFF BEFORE UNPLUGGING THE CLOCK CALENDAR SAU FROM YOUR COMPUTER, OR UNPLUGGING ANYTHING FROM YOUR COMPUTER SYSTEM.

VERIFYING THE CLOCK CALENDAR SAU OPERATION

Once the unit is properly installed and power is turned on, enter TI Basic or TI Extended Basic. Since the time generation circuitry is powered by a battery at all times, the present time contained in the unit can be determined by entering the following program commands:

```
10 OPEN #1:"CLOCK"
20 INPUT #1:A$,B$,C$
30 PRINT A$,B$,C$
```

This program will read the three variables; day of the week, date and time from the Clock Calendar SAU and display them on the screen.

DESCRIPTION OF THE BASIC COMMANDS

Following is a description of the four basic commands:

1. OPEN STATEMENT

```
OPEN #file-number:"CLOCK"
```

The file number can be any number between 1 and 255 or a numeric expression. This statement must always precede a PRINT or INPUT statement.

2. PRINT STATEMENT

```
PRINT #file-number:"d,mm/DD/yy, hh:MM:SS"
```

Where; File-number As specified in the OPEN statement.
d = Day of week (1 through 7).
mm = Month
DD = Day
yy = Year
hh = Hour (Based on a 24 clock).
MM = Minute
SS = Second (Always set to 00 when setting the time).

NOTE: THE PRINT STATEMENT MUST ALWAYS INCLUDE ALL SEVEN OF THE PARAMETERS. THE CLOCK BEGINS COUNTING AT THE MOMENT THIS COMMAND IS ENTERED.

3. INPUT STATEMENT

```
INPUT #file-number:S1,S2,S3
```

Where; File-number As specified in the OPEN statement.
S1 = String variable which reads the Day of Week.
S2 = String variable which reads the date as mm/DD/yy.
S3 = String variable which reads the time as hh/MM/SS.

NOTE: AN INPUT STATEMENT MUST ALWAYS CONTAIN ALL THREE (S1, S2 AND S3) STRING VARIABLES.

4. CLOSE STATEMENT

```
CLOSE #file-number
```

Where; File-number As specified in the OPEN statement.

SAMPLE PROGRAM NUMBER 1:

```
10 OPEN #1:"CLOCK"
20 PRINT #1:"4,06/25/85,14:22:00"
30 INPUT #1:A$,B$,C$
40 PRINT #1:A$,B$,C$
50 CLOSE #1
```

SAMPLE PROGRAM NUMBER 2:

```
10 CALL CLEAR
20 INPUT "DAY OF WEEK (1-7) ":A$
30 INPUT "DATE (MM/DD/YY) ":B$
40 INPUT "TIME (HH:MM:SS) ":C$
50 D$=A$&" "&B$&" "&C$
60 OPEN #1:"CLOCK"
70 PRINT #1:D$
80 CLOSE #1
```

BATTERY REPLACEMENT

The Clock Calendar SAU contains a small battery that provides power to the clock circuitry so that time is maintained even when the main power is turned off. This battery will provide power for about six months of operation with the power off.

Therefore, periodically you will have to replace the battery using the following procedure: After turning off the main power to the computer system, disconnect the Clock Calendar SAU. Remove the two screws on the bottom of the unit and remove the top cover by lifting from the front edge of the cover. Use caution so as not to damage the Load Interrupt Switch located at the rear of the unit.

Remove the battery (the round silver component located in the middle of the printed circuit board) by placing a small screw driver under the lip of the battery and very gently pry it out of its' holder.

Then insert the new battery by slipping it under the spring clamp and push it into the holder. The PLUS side of the battery (the side with the small lip) must face out from the holder.

After connecting the computer system and turning on the power, the time must be programed into the Clock Calendar SAU.

The following 3 volt battery can be used:
- CR2032 lithium battery

CORCOMP, INCORPORATED

LIMITED WARRANTY

CorComp warrants the 9900 Clock which it manufactures to be free from defects in materials and workmanship for a period of 120 days from the date of purchase.

During the 120 days warranty period CorComp will repair or replace, at its option any defective products or parts at no additional charge, provided the product is returned, shipping pre-paid to CorComp. The Purchaser is responsible for insuring any product so returned and assumes the risk of loss during shipping, all replaced parts and products become the property of CorComp.

RETURN MATERIAL AUTHORIZATION (RMA) NUMBER

Any CorComp product which is returned to CorComp for any reason must reference a RMA number. A RMA number will be issued to a customer after the following information has been given to the Customer Service Department:

1. CorComp product model number.
2. Product serial number or date code.
3. Description of system configuration.
4. Name and telephone number of technical contact in case additional information is required.

All products shall be returned to CorComp freight prepaid. Note: If the customer does not contact the Customer Service Department for a RMA number, and the package arrives at CorComp, the package will be returned to the sender, freight collect and the product not repaired.

SHIP TO:
1255 N. Tustin Ave.
Anaheim, CA 92807

WARRANTY COVERAGE

This 9900 Clock is warranted against defective materials or workmanship. THIS WARRANTY IS VOID IF PRODUCT HAS BEEN DAMAGED BY ACCIDENT, UNREASONABLE USE, NEGLIGENCE, IMPROPER SERVICE OR OTHER CAUSES NOT ARISING OUT OF DEFECTS IN MATERIALS OR WORKMANSHIP.

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