CC598A/B/C Utility Disk

Part Number 10306405

Introduction

This diskette is a bootable MS-DOS disk which contains programs used to maintain the CC598A and CC598B System Consoles and the CC598C LCN Network Maintenance Station.

This diskette is restricted to usage by Control Data personnel. Duplication is not authorized. Additional copies may be ordered from Software Manufacturing and Distribution, Arden Hills.

This document supercedes information contained in the 19003 System Console Operations and Maintenance Guide, publication 60463610, found on the following pages:

Part II Initializing the Hard Disk and Installing the Software pages II-1-6, II-1-7, II-1-8, II-1-9 and the top of II-1-10.

Part II Creating a Bootable HOSTEST Diskette pages II-1-11 (bottom) and II-1-12.

Conventions

The following conventions are used in this document:

o   The term 'console' means any model of the CC598.

o   When the word 'press' is used in an instruction, it means for you to press the named key(s).

o   When the word 'press' precedes a string of key names that are separated by hypens (for example CTRL-ALT-DEL), it means for you to press the keys listed simultaneously.

o   When the word 'type' is used in an instruction, it means for you to type in the word following.

Warning

The use of the programs contained on this diskette other than as proscribed will result in a non-functional console.

Problem Reporting

Problems should be reported on a PSR via SOLVER under the PSR Ident of CSW.

Disk Structure

The diskette is divided into 5 directories. Each directory contains the software necessary to perform a unique function. The 5 directories are:

Directory - BIN

This directory contains MS-DOS programs that are common to all of the procedures.

Directory - MFG

This directory contains the procedures used by Manufacturing to assemble a console. These procedures are one time only procedures. They will fail if executed twice on a console.

Directory - FIELD

This directory contains the procedures necessary to initialize the hard disk in the console after replacement of the hard disk.

Directory - LOW

This directory contains the software and procedures necessary to low level format the CC598A's Wren III hard disk.

Directory - HOST

This directory contains a copy of the HOSTESS diagnostics for the HOSTESS Multiport Network Adapter used in the CC598A and CC598B consoles.

General Usage

In order to use the software and procedures on this diskette, you must boot the console from this diskette. The following describes how to accomplish a floppy disk boot.

1. With power applied to the console, insert the Utility Disk in the floppy drive and latch the door.

2. Simultaneously press the *CTRL-ALT-INS* keys. The console will display:

   MFM-200 Monitor, Version 2.3B
   Memory Size: 640K Bytes
   Enter ? for help
   ->

Note

If your console is a CC598B or CC598C, disregard any error message indicating that the controller is bad when you first applied power to the console before executing Part 1.

3. Type BF and press the ENTER key. The following will appear on the screen:

CC598A/B/C Utility Disk
Part Number 10306405
Refer to the documentation accompanying this diskette for usage information.
Quick Reference:
Manufacturing Installation Procedures — Type MFG
Field Disk Replacement Procedures — Type FIELD
Wren III Low Level Format — Type LOW
Hostess Diagnostics — Type HOST
All entries must be followed by pressing the ENTER key
A>

4. At this point, you would enter the command for the procedure that you wish to execute. After entering the procedure command, a set of instructions will be displayed on the screen. Follow these instructions.

Manufacturing Installation Procedures

To execute the Manufacturing Installation Procedures, type *MFG* and press the *ENTER* key. The following informational display will be presented.

```
                Manufacturing Installation Procedures
                     for the CC598-A/B/C Consoles

          The CC598A consoles requires a two part process in order
                        to prepare the hard disk.

          The CC598B/C consoles require a three part process in order
                        to prepare the hard disk.

          A re-boot is required between the parts.  To re-boot press
                        the CTRL-ALT-INS keys.

Strike any key.
```

When you are ready, press any key for the detailed instructions. An instruction screen as shown on the next page will be presented.

)

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```
┌─────────────────────────────────────────────────────────────┐
│          Manufacturing Installation Procedures              │
│             for the CC598-A/B/C Consoles                    │
│                                                             │
│        ∞                                                    │
│                         Part One:                           │
│          For a CC598A    Console type "A1"                  │
│          For a CC598B/C Console type "B1"                   │
│                                                             │
│                         Part Two:                           │
│          For a CC598A    Console type "A2"                  │
│          For a CC598B/C Console type "B2"                   │
│                                                             │
│                        Part Three:                          │
│            For a CC598B Console type "B3"                   │
│            For a CC598C Console type "C3"                   │
│                                                             │
│        All entries are followed pressing the ENTER key.     │
│  A>                                                         │
└─────────────────────────────────────────────────────────────┘
```

Select the procedure for your console model and type the command for whichever part you are going to execute. All parts must be executed and must be executed in order. Remember a re-boot is required between parts.

Note

```
┌─────────────────────────────────────────────────────────────┐
│ If  your  console  is a CC598B or CC598C, after executing   │
│ Part 1 disregard any error messages indicating  that  the   │
│ disk is not a bootable partition.                           │
└─────────────────────────────────────────────────────────────┘
```

ield Disk Replacement Procedure

) execute the Field Disk Replacement Procedure, type *FIELD* and press the
ITER key.   The following informational display will be presented:

```
              Field Disk Replacement Procedure
                 for the  CC598-A/B/C Consoles


     The CC598A consoles requires a two part process in order
                   to prepare the hard disk.


     The CC598B/C consoles require a three part process in order
                   to prepare the hard disk.


     A re-boot is required between the parts.   To re-boot press
                 the CTRL-ALT-INS keys.

Strike any key.
```

len you are ready, press any key for the detailed instructions.   An
nstruction screen as shown below will be presented.

```
              Field Disk Replacement Procedure
                 for the  CC598-A/B/C Consoles


                      Part One:
          For a CC598A    Console type "A1"
          For a CC598B/C Console type "B1"


                      Part Two:
          For a CC598A    Console type "A2"
          For a CC598B/C Console type "B2"


                      Part Three:
           For a CC598B Console type "B3"
           For a CC598C Console type "C3"


        All entries are followed pressing the ENTER key.
      A>
```

hoose your console model and type the appropriate command for whichever part
)u are going to execute.   All parts must be executed and must be executed in
rder.   Remember a re-boot is required between parts.

'ren III Low Level Format

execute the Wren III Low Level Format Procedure, type `LOW` and press the
'TER key. The following informational screen will be presented.

```
Wren III Low Level Format Procedure


This procedure performs a low level format on the Wren III disk.
All information stored on or about the disk is lost.


Note to Manufacturing


If you have already executed the Manufacturing Installation
Procedures on this console, you must use the Field Disk
Replacement Procedures to finish the assembly process.
```

·ess any key to start the format. The following format display will appear
ı the screen.

```
Version 2.13 - 9 November 1987


Controller is Generic
Base I/O Port Address is: 300
DMA Channel is: 1


Common Command Set Enabled


1 port:340h
2 rt10-at
3 dma:hsdma
RT10-AT Adapter Assumed
4 dmachan:5
5 tdr

tdr CDB is 00 00 00 00 00 00
Status:   00H
6 fd


fd CDB is 04 00 00 00 00 00
```

ıis display will remain while the Wren III is being formatted.

Note

The light on the Wren III will not be on during this operation. Do not interrupt the formatting routine while it is running or the console will become unusable.

The following display appears, when formatting is complete:

```
              Common Command Set Enabled


1 port:340h
2 rt10-at
3 dma:hsdma
RT10-AT Adapter Assumed
4 dmachan:5
5 tdr


tdr CDB is 00 00 00 00 00 00
Status:  00H
6 fd


fd CDB is 04 00 00 00 00 00
Data Written:
Status: 00H
7 quit


A>
```

ostess Diagnostics

execute the Hostess Multiport Network Adapter Diagnostics, type *HOST* and
·ess the *ENTER* key. Enter the following information as prompted by the
.agnostic.

HOSTESS board base address: Enter **140**
Nmber of ports: Enter **8**
System Clock Speed: Select **2**

Note

The information contained on this page supercedes the information contained in the 19003 System Console Operations and Maintenance Guide, publication number 60463610, found on pages II-3-7 and II-3-8 concerning the running of the Hostess Diagnostics.

; the diagnostic runs, it will direct you to install the test plug that is
ιcluded in the multiport adapter package. Install the test plug on each
ɔrt as you are prompted.

Note

For additional information and explanations of any error message displayed, refer to the HOSTESS Multiport Network Adapter User's Guide. Which shipped with your console.

dditional Troubleshooting Information

any one of the following conditions exisit:

o   You have replaced the CPU motherboard in the Console;
o   You have replaced the battery on the motherboard;
o   You are experiencing any problem with SETUP - messages during boot-up
      saying that the SETUP configuration information is corrupt. These
      messages usually say something to the effect of *Error: Bad
      Configuration Information Found in CMOS*.

u must boot the console and reconfigure the configuration information.   The
llowing describes how to do this.

th power applied to the console, simultaneously press the CTRL-ALT-INS
ys. The console will display:

```
  MFM-200 Monitor, Version 2.3B
  Memory Size:  640K Bytes
) Enter ? for help
  ->
```

/pe SETUP and press the ENTER key. Depending on your console type, one of
isplays shown on the following page will appear. Use the arrow keys to
ove, the space/backspace keys to select values and the ESC key when you are
one. After pressing the ESC key, follow the directions shown at the bottom
f the display.

```
┌─────────────────────────────────────────────────────────────────────────┐
│              System Hardware Setup/Configuration Program                   │
├───────────────────────────────────┬───────────────────────────────────────┤
│ Time:      16:16:57               │ Operating Speed:  Slow  Fast  Smart   │
│ Date:   08/2  /1988               │ Hard Disk Drive 0:    -Not Present-   │
│                                   │                                       │
│            BASE EXTENDED EMS      │  ┌─────────────────────────────────┐  │
│  Main RAM:  640K      OK  256K    │  │  Media Type:    N/A             │  │
│ Add-On RAM:   OK      OK  ---     │  │ Cylinders:      Heads:          │  │
│     Total:  640K      OK  ---     │  │ Ship Zone:      Sectors:        │  │
│                                   │  │ Precomp:        Capacity:       │  │
│                                   │  └─────────────────────────────────┘  │
│ Floppy Drive 0:   5-1/4" 1.2M     │ Hard Disk Drive 1:    -Not Present-   │
│ Floppy Drive 1:   -Not Present-   │                                       │
│                                   │  ┌─────────────────────────────────┐  │
│ Boot Drive:  Floppy Disk Drive 0  │  │  Media Type:    N/A             │  │
│                                   │  │ Cylinders:      Heads:          │  │
│ Serial Port 1 (COM1):   Enable    │  │ Ship Zone:      Sectors:        │  │
│ Serial Port 2 (COM2):   Enable    │  │ Precomp:        Capacity:       │  │
│                                   │  └─────────────────────────────────┘  │
│ Video Display: Enhanced Graphics  │                                       │
│ Video Refresh Rate:  50Hz   60Hz  │                                       │
│        Enter Current Time as HH:MM:SS In 24 Hour Format                   │
│   Use space/backspace to select values,Arrows to move,ESC when done       │
└───────────────────────────────────────────────────────────────────────────┘
```

CC598A Console

Make sure that your configuration matches the highlights shown above.

```
┌─────────────────────────────────────────────────────────────────────────┐
│          System Hardware Setup/Configuration Program                       │
├──────────────────────────────────┬────────────────────────────────────────┤
│ Time:      16:16:57              │ Operating Speed:  Slow  Fast  Smart     │
│ Date:   08/22/1988              │ Hard Disk Drive 0:    Drive Type 43     │
│                                  │                                         │
│           BASE EXTENDED EMS      │  ┌───────────────────────────────────┐  │
│   Main RAM:  640K    OK   256K   │  │  Media Type:   Fixed              │  │
│ Add-On RAM:  OK      OK   ----   │  │ Cylinders:  989   Heads:      5   │  │
│      Total:  640K    OK   ----   │  │ Ship Zone:  988   Sectors:   17   │  │
│                                  │  │ Precomp:      0   Capacity: 43M   │  │
│                                  │  └───────────────────────────────────┘  │
│ Floppy Drive 0:   5-1/4" 1.2M    │ Hard Disk Drive 1:  -Not Present-       │
│ Floppy Drive 1:    -Not Present- │                                         │
│                                  │  ┌───────────────────────────────────┐  │
│ Boot Drive:  Hard Disk Drive 0   │  │  Media Type:   N/A                │  │
│                                  │  │ Cylinders:        Heads:          │  │
│ Serial Port 1 (COM1):   Enable   │  │ Ship Zone:        Sectors:        │  │
│ Serial Port 2 (COM2):   Enable   │  │ Precomp:          Capacity:       │  │
│                                  │  └───────────────────────────────────┘  │
│ Video Display: Enhanced Graphics │                                         │
│ Video Refresh Rate:  50Hz  60Hz  │                                         │
│       Enter Current Time as HH:MM:SS In 24 Hour Format                     │
│   Use space/backspace to select values,Arrows to move,ESC when done       │
└─────────────────────────────────────────────────────────────────────────┘
```

CC598B and CC598C Console

Make sure that your configuration matches the highlights shown above.