SHARP SERVICE MANUAL

CODE: 00ZPC7000ADIA



DIAGNOSTIC MANUAL FOR MODEL PC7000A/7100

	CONTENTS
1.	GENERAL 1
2.	DIAG NOSTICS LOADER
3.	MEMORY DIAGNOSTICS
4.	KEYBOARD & SPEAKER DIAGNOSTICS
5.	L.C.D. DIAGNOSTIC
6.	REAL TIME CLOCK DIAGNOSTICS 10
7.	SERIAL I/O DIAGNOSTICS 12
8.	FLOPPY DISK DIAGNOSTICS 14
9.	PRINTER DIAGNOSTIC
10.	COLOR CRT ADAPTER DIAGNOSTIC 23
11.	MONOCHROME CRT ADAPTER DIAGNOSTIC
12.	MODEM CARD DIAGNOSTIC 26
13.	EXPANTION UNIT DIAGNOSTIC 29
14.	HARD DISK DIAGNOSTIC
15.	SCREEN FORMAT 57

SHARP CORPORATION

PC-7000A PC-7100

(i) Numeric Keys

1 GENERAL

(1) Introduction

DIAGNOSTIC

This diagnostics disk serves for adjustment, aging, field maintenance and repair of this personal computer. Although the package employs an interactive entry system to prevent the personal computer from malfunctions such as missoperation, be very careful in handling this diagnostics package. The diagnostics package is supplied in the form of a floppy disk which is labeled "DIAGNOSTICS FOR PC7000A/7100". The disk incudes the following diagnostics programs in accordance with devices. These diagnostics programs programs are loaded by the DIAG LOADER program described in item 2.

SHARP	Ver.
DIAGNOSTICS FOR P	C7000A/
LEVEL 5/	
<u> </u>	
/	
11	11
File name	Device name

		B of (Bo Hallio
Standard	PCMEMDIG	Memory
	PCRTCDIG	Real Time Clock
	PCPRTDIG	Printer
	PCKEYDIG	Keyboard, Speaker
	PCFDDDIG	Floppy Disk Drive (s)
	PCSIODIG	Serial Interface Adaptor
	PCLCDDIG	Liquid Crystal Display
Option	PCCRTDIG	Color CRT Adaptor
	PCMONDIG	Monochrome CRT
		Adaptor
	PCMDMDIG	Modem Card
Expansion	PCEXPDIG	Expansion Unit
	PCDSKDIG	Hard Disk Drive (s)

(2) Notation in Manual

I represents the content of display and a digit being entered. A message is shown as "". A key that the operator presses is depicted as [[]]. For example, a message is surrounded by a set of double-quotation marks like

"Mr. Yamada is fine,"

In case of key entry, the sentence 'Press the ESC key.' is shown in the manual as 'Press [[ESC]]'.

(3) Key Entry

(3.1) Decimal Code Entry

[0] to [9] can be entered by using the numeric keys [[0]] to [[9]] and those of the typewriter keys.

When entering decimal codes through the numeric keys, press [[Numeric Lock]] and check to see that the LED on the [[Numeric Lock]] lights on.

	7
Num	
Lock	
8	9
1	PgUp
5	6
	→
2	3
Ļ	PgUp
s	
	Num Lock 8 1 5

(ii) Typewriter Keys

[@	#	\$	%	\sim	&	*	()
1	2	3	4	5	6	7	8	9	0

While a diagnostics program is executed, [[0]] to [[9]] of the typewriter keys function as data keys irrespective of [[Shift]]. For example, even if [[1]] is entered while the shift key of the typewriter keys is pressed, numeric data [1] is entered.

(3.2) Hexadecimal Code Entry

Codes from [0] to [9] can be entered in the same manner as the decimal numbers; codes [A], [B], [C], [D], [E], and [F] should be entered by using [[A]] to [[F]] of the typewriter keys.

Like the decimal code entry, while a diagnostics program is executed, [[A]] to [[F]] of the typewriter keys function as data keys irrespective of the state of [[Shift]]. For example, even if [a] is entered while the shift key is pressed, code [A] is entered.

(3.3) Terminate and Clear Entry Keys

(i) Numeric Keys

1	,	
	_	

(ii) Typewriter Keys



[[🗲]] (Delete)	Deletes all the data entered
	through the data keys.
[[-]] (Minus)	This key functions to details,
	see the description of each
	program.
[[📲]] (Enter)	Completes data entry.

PC-7000A =====PC-7100-	
(3.4) Function Keys avail binameth (i)	
The following keys can be used for tunction keys.	
(i) Numeric Keys	jahineo.
	Loading Error !
Esc	naiteuberbul (1.
	Disk Error on Drive Not Ready reading Boot Sector
(ii) Programmable Function Keys	Please Insert a System Disk and Press any Keys Mannanian
	the package and toys an interactive entry system operation
F1 F2	<u>ार विकास का विशेष का प्राप्त को को को के विकास कि कि विविध के कि विकास का</u>
	Figure DIAG-2 Example of Error Massage when MS DOS
	warrestics to much not properly loaded spour spiteoursib of
[[ESC]] (BREAK)	lisk which is labeled "DIACKOSHCS FOR DOTOCA"
Changes a running diagnostics program to another dis-	After the MS-DOS is properly loaded insert the diagnosti
gnostics program and immediately sinterrupts the	disk into the drive A or the drive Bab drive equations
execution of the diagnostics program. This key opera-	When inserting the diagnostics disk into the drive Awtyr
tion is available anytime. Whenever this key is pressed	"PCDIAG3" and press [[4]].
i) (even in key entry waiting state), control exits to the	Meanwhile, when inserting the disk into the drive B, typ
program being called.	"B: PCDIAG3" and press []
[[EP]] (RUN)] bobboxer ar mangerat solvengale elulV	The LCD displays one of the following messages in accor
oviscRestartsathelprogram beinginterrupted.	ance with the drive where the system disk is inserted ar
h slid This key is used together with the [[F2]]. For	then the computer loads the diagnostics level 3 package fro
30 of details, see the description of each program. All the	the disk.
[[F2]] (STOP) (049346 (111))	
Temporarily interrupts the execution of the aging	
program being looped: not about the analysis and a set	A > pcdiag3
For details, see the description of each program:	XI
引、国 「臼」(臼」(臼」(南西) (20世紀年1月))	
(4) Loading Diagnostics Disk barbara of about the	A > b; pcdiag 3 where a
Since the diagnostics disk runs on MS-DOS, first of all,	
the personal computer should boot up the MS DOS.	
DOS de vite texterne al la plan de la companya a com	(5) Input/Output/ DEblay (9) 17 24.29
For the booting procedure, refer to the instruction book	(b) The to the big of the south the south the south of th
chanter 4. Setter Lings of Manage	input/output display is loughly classified into the followin
When the system is properly booted up, the opening mes-	
same is displayed on the LCD as follows.	CYAN
State of the send Obort Frank Kings	WHITE
—————————————————————————————————————	stics program. DIGMONDA
SHARP Personal Computer System	GREEN
I/O Subsystem version X.XX	of the program such as test mode.
Copyright (C) 1985 by VADEM Inc.	RED Represents an error concerning a devic
All Rights Reserved	If this display appears on the lower le
	screen, it represents an unrecoverab
Microsoft MS-DOS version 2.11	error.
Copyright 1981, 82, 83 Microsoft Corp.	YELLOW Represents an error or an input reque
	where careful entry operation is requ
Command v.2.11	ed. 12 (1999) (1997) (1
	(a) A set of the se
A > path a: \bin;	(5.1) Thput Display of the two sectors and the two sectors and the display of the sectors of the
	[0x] represents data entry in <u>hexadecimal notation;</u> " in
	[Ox] represents data entry in decimal notation.
	a Maras and sant name <u>at Astro Ast</u> ro and t
	14 (-)) essant es coerta es coerta es coerta es
	Binary [0x] = 🕅 🕅 🕅
Figure DIAG-1 MS-DOS Opening Message	প্ৰায়লান স্তাজী (৪)
, গ্রামার এরে গ্রহারিক বিষয়ের	
If another message appears on the screen, when the MS-	(0) (and the preceding display requires data entry in hexadecim
DOS system is properly loaded to the computer, see	notation realized to the second state and the

tinap (3) of the ry in hexadecimal of one of the notation. When completing data entry by using [[4]], if data entry has not been made or just after [[] is pressed, considering the [[0]] has been entered, the system causes

and the stand

Chapter 4, of instruction book and take the proper action.

· 学校、自己的学校的主义。



the screen to display "0" and executes the relating processing. (Default value is [0].)

(5.2) Output Display

Like the input display described above, [0x] represents data output in <u>hexadecimal notation</u>; no [0x] represents data output in decimal notation.

Count [0x] = XXXXXXX

The preceding display requires data output in hexadecimal notation.

Errors concerning program continuance such as a device error are displayed on the 24th and 25th lines on the lower left screen. At the time, the system only accepts [[ESC]]. (When the color CRT adapter is used, the error is displayed in red.)

Besides the above error, the screen displays the following output information.

1st line	Displays the title.
2nd to 20th lines	Displays information of
	each device.
21st to 23rd lines	Displays the error status of
	each device.

(6) Version of Diagnostics Programs

The version control is in charge of the third Engineering Section of Computer Division and Reliability Center of Sharp Corporation.

The diagnostics package is roughly classified into DIAG LOADER and various device diagnostics programs.

(6.1) Versions of Devices

The version of each device is displayed on the test menu when the diagnostics program of each device is specified. For example, when specifying the memory test, the following message appears on the screen.

- - - -

SHARP Personal Computer System Diagnostics Level. 3

Date Jul/01/'85	~	Represents the d the version of program is updat	late on which diagnostics red
Memory [<u>1.0]</u>	←	Represents the v diagnostics progr	ersion of this am.
Memory size = 🕅	КВ	(0 × 00000 – 0×	
(0) Marching (1)			

2 DIAGNOSTICS LOADER

(1) Introduction

The DIAG LOADER (named LOADER) serves to select and execute one of the diagnostics programs for individual devices (named DIAG program) provided as this parsonal computer diagnostics package.

(1.1) Starting up LOADER

For loading the LOADER program see PC-7000A/7100 DIAGNOSTIC power on diagnostic.

When the LOADER is properly loaded, the opening message of the DIAGNOSTICS Level. 3 is displayed.

The following message is reversed in the center of the opening message.

Please depress any key to start diagnostics.

Pressing any key causes the DIAG program to be executed.

(1.2) System Configuration Display

When the LOADER is started up, the system displays the device names which are accommodated on the screen.

SYSTEM BOARD 384 (512, 640, 768) KB MEMORY LIQUID CRYSTAL DISPLAY KEYBOARD REAL TIME CLOCK PRINTER ADAPTOR SERIAL I/O ADAPTOR 2 FLOPPY DISK DRIVE (S), ADAPTOR CO-PROCESSOR 8087 COLOR CRT ADAPTOR MODEM CARD EXPANSION UNIT EXTERNAL HARD DISK DRIVE, ADAPTOR

Check whether the list displayed on the screen is correct or not. To proceed to the next step, press either [[ESC]] or [[]].

NOTE: "384 (512, 640, 768) KB MEMORY" represents the memory capacity available in the system. Actually, one of 384, 512, 640, and 768 KB is displayed.

For the PC-7100 the screen will be displayed "INTER-NAL HARD DISK DRIVE, ADAPTOR"

(1.3) Flow of Control

After the LOADER is started up, it controls the system. The LOADER requires the selection of each condition and one of the DIAG programs. When the user properly makes such selections, the LOADER loads the test and data of the DIAG program from the floppy disk to the memory of the personal computer and then transfers the control to the DIAG program.

After that, execute the DIAG program in the operation procedure described in the manual of each device.

When control exits to (that is, is returned to) the LOADER

PC	
described in Paragraph (2:3)-while the DIAG program is executed, control exits to the LOADER and it requires the selection of DIAG program.	Jf the system cannot properly load the program from the diagnostics package, it displays the following message "Disk read error."
After the system configuration is displayed as shown in Figure LOAD-1 the system displays the title and inquires	At the time, press either [[ESC]] or [[]] to exit to "Selection of DIAG Programs" value in all In the DIAG program selection mode, when pressing [[ESC]], control exits to "(2,1) Selection of Drive"
the selection of the floppy disk drive where the DIAG-	(2.3) Exit to LOADER
0(NOSTICS disk is inserted an AFIIA) i with national and	To try to execute another DIAG program while one DIAG
	program runs, it is necessary to exit to the LOADER. At
Author dure dure use worksteed, MERADT authouse	- the time, first exit the initial screen of each-DIAG program
In: DING And DING TO TABLE DING AND	(that, is, menu screen of DIAG program) and then press
तिल्फ्राओर के निर्णालक को निर्णाकरका के सुरक्षता क्रांसल्ती ने जन्मि 🗝	[[ESC]] in order to return control back to the DIAG
Figure LOAD-1 .ani	Or the menu screen, select the required DIAG program.
If an improper disk drive selection is much as a total	Torexit to the LOADER while the screen is not the initial
	screen press [[ESC]] to exit to the initial screen by
into Drive A the system displayed in 5 like is inserted	referencing the manual of related DIAG program
the screep	toteletioning into include or related birde program. (.bai ni
the scient.	(3) Memory Map
If the inserted disk does not include the DIACNOSTICS	The memory capacity of the system should be structured
disk, the following message annears women of the diverse (3.1)	in the range of 384 KB to 768 KB. In that range, the
""This media is not DIAGNOSTICS# 2 TOAOL all and W	memory capacity can be freely expanded in the unit of
When one of the preceding are made allow and the	
screen, the system awaits [[4]] or [[ESC]] followed	In the following description, 384 KB of memory capacity
by proper drive selection.	is exemplified. (see Figure LOAD-3.)
This drive selection is required only when the LOADER is	(a) VECTOR Area grangaril contempoint to and any (i)
started up. While a DIAG program runs the drive selection	Memory addresses \$00000 to \$003FF are used for
is not required.	vector, area, which are set when the power on initializa-
In order to conduct the drive selection once again press	tion by ROM
[[ESC]] in the SELECTION OF THE DIAG PROGRAM	r(b) ti USER'S Area rta yi labaat eli syssiliseq parte mujula reta
described later.	Memory addresses \$00400 to \$55.FFE are used for
In selecting the drive, pressing [[ESC]] causes control to	user's area, which serves to load a DIAGNOSTICS
exit to the system.	program selected by the LOADER from the diagnostic
2011年6月1日の100	seem disk and execute the program about so he added off
(2.2) Selection of DIAG Program	Example: In case of 384 KB of memory capacity
After individual selections are properly made, as shown in	wet of orbit, here your and antistativation or the two jointaines in of . Address
Figure LOAD-2, the system displays the selection screen of	\$00000 <u></u>
the DIAG programs.	VECTOR Area
an fair seo de la alta de la casa de la casa Novembre de la casa de l	\$003FF
What do you select the number of diagnostics program?	· 그레이아크 (2016)20061141111-2017 (2017)11-2017-2017년 영립 포는
menale and an and a suballate a suballate and a	
And the second a spearce of the second of the Kar	A composition and an annually Here and a straight and a straight and a straight and a straight a st
bay: 'gally s	encessing for paising and
AATAP Strategies of the set on and set offer and an	
Figure LOAD 2 TTATA TVISCI MERCHANCIAG	
Ender de la complete	ខណ៍រំ វិច \$5.FEE.F¹
Enter the number in parenthesis of DIAG program to be	Figure LOAD-3 Memory Map
And the COADEE started it, it beness a BEAO J and ERA	
the statem requires entering it on the screen is entered,	(4月 Error Messages)))00 × 0) 62 名题》 - osia yanamaM
with system requires entering the required number on the	Error messages available in the LOADER represent the
one entropy the LCAPER loses the test and entropy	TO HOWING meanings.

- Timeout error [Not ready]
 The drive being specified was in the Not-ready state.
- Disk read error Read error occurred while the floppy disk was accessed.
- This disk is not DIAGNOSTIC. The disk did not include the DIAGNOSTICS package.

The program.

After a DIAG program is properly selected the system

clears the screen and displays the following message no man

The system loads, the DIAG; program into the memory.

Upon completion of loading the program, the system

rexecutes the DIAG program at radio or anon isomore name

"LOADING START !"

PC-7000A PC-7100

3 MEMORY DIAGNOSTICS

(1) Outline

The MEMORY DIAGNOSTICS program serves to test the function of the memory (referred to as MEM in the following explanation). The memory area which can be tested is the entire accommodable area except for the vector area and the area where the MS-DOS is loaded.

(1.1) Test Menu display

When this program is started up, the system displays the title and the memory test menu as shown in Figure MEM-1. This display is referred to as the MEM test menu.

____**_**_____

SHARP Personal Computer System Diagnostics Level. 3

Data Dec/01/'85

MEMORY [1.1]

Memory size = \boxed{MM} KB (0 × 00000 - 0 × \boxed{MMM}) (0) Marching

- (1) Address complement
- (2) Aging [Marching and ADCOMP]

Please input command?

Figure MEM-1 MEM Test menu

The MEM test menu shows the memory capacity accommodated in the system on the upper screen.

Memory size = $\square \square \square$ KB (0x00000 - 0x $\square \square \square \square \square$)

The maximum memory capacity of this personal computer is 768 KB.

Prior to conducting the test, check whether the memory capacity being displayed is the same as that being accommodated.

If the memory capacities are not identical, a part of the memory chip has been damaged. At that time, the system should be repaired.

(1.2) Selection of Test Menu

Enter the required test number on the test menu as follows: [[0]] to [[2]] (1 digit) + [[]] (When specifying [[0]], it is possible to press [[]] only.)

The number being entered is displayed on the screen. When pressing [[]], the specified diagnostics program is started up.

To change the test number, delete the number being entered by using $[[\leftarrow]]$ and then enter the correct number.

(1.3) Exiting Test Menu

When [[ESC]] is entered before entering [[], control exits to the DIAG LOADER.

(1.4) Others

Parameters of each test program are entered through 10 key + [[]], When each test program is called, by pressing [[ESC]], control exits to the MEM test menu (Figure MEM-1).

(2) Description of Program

(2.1) Marching

(2.1.1) Outline

After writing fixed data to the entire memory area, the system sequentially reads data and compares it.

After reading data, the system writes other data.

The test procedure is outlined as follows:

1) $0 \rightarrow M$: "00" W 2) $M \rightarrow 0$: "00" R, "FF" W 3) $0 \rightarrow M$: "FF" R, "EE" W 4) $M \rightarrow 0$: "EE" R, "DD" W 5) $0 \rightarrow M$: "DD" R, "BB" W 6) $M \rightarrow 0$: "BB" R, "77" W 7) $0 \rightarrow M$: "77" R, "11" W 8) $M \rightarrow 0$: "11" R, "22" W 9) $0 \rightarrow M$: "22" R, "44" W 10) $M \rightarrow 0$: "44" R, "88" W 11) $0 \rightarrow M$: "88" R where test area $0 \rightarrow M$

data = "nn" Memory read = R Memory write = W

The program serves to test the entire memory area displayed as the memory size in the order listed above.

(2.1.2) Operation

When specifying this test, enter the proper data to prompts displayed sequentially as shown in Figure MEM-2.

(a) Test

(a.1) Specification of Error Stop

Error stop ? [0: Yes, 1: No]=

If an error occurs while conducting this test, specify whether to abort or continue the test.

(a.2) Confirmation of Test Execution

Test start ? [0: Yes, 1: No] = 🛛

Confirm whether to execute the test or not.

When entering [[1]], the test can be conducted from "Specifications of Error Stop" mentioned in (a.1). On the other hand, when entering [[0]], the system displays the screen as shown in Figure MEM-2 and starts the test.

.PC → 7000A PC → 7000	
The system displays the current area and total area) in to hexadecimal notation on the lower screen (100001 manual)	The test procedure is outlined as follows: IN YHOMEM &
	1) $0 \rightarrow M$
	1.1) N : "Lower 8 hits of N" M
Current area $[0x] = MXXXX - MXXXX = model() (3.2)$	and 1.2 of any $M_{\rm eff}$ receases 27.780 and 31.0 Value M M
	-world' and $\vec{n} \mapsto \vec{n}$ as at perform) yronnam and to notional
inv + 11 2011 When each test process is called, by	
Pressing TESCIE control with to the MEM test menu	2.2) $M = N$ Lower 8 bits of $M = N$
	Where Test area $0 \rightarrow M$ where 1200 erg
The current area represents the area being tested in the unit	Data = "nn"
of 4 KB physical address. The total error represents the	Any address = " $\mathbf{N}^{M[3]}$
number of times an error occurs. (Σ)	
This message is not displayed while V-RAM area is tested.	Memory write = W
	The program serves to test the entire memory area dis-
(2.1.3) Abortion and Completion of Test	 played as the memory size in the preceding order.
Although [[ESC]] ^[] and [[F2]] ^[] are available while the	SHARP Revenuel Computer System Diamonities Level, 3
test is conducted; a time lag occurs because these key	(2.2.2) Operation
operations are processed in the state where the executing	When specifying this test, enter the proper data to prompts
	displayed sequentially as shown in Figure MEM-3.
(Figure MERA 1) When the MEM for the MEM for the	(a) Confirmation of Test Execution
(Figure MEM-1), By pressing [[E211] Who (CS) - S, " Hilling) of Mr. (6).	
message on the lower left reason and deart which the	
"Test stopped by user "" "TT", T " [S" 0]	Testistart 20[.0: Yes, 1x No] = 2 a mini and the contraction
At the time, by pressing [[F1]], the system continues the	$(1,1)^{n_{1}}, \frac{1}{2^{n_{1}}} = I(1)$
test: by pressing [[ESC]] control evite to the MEN test	
menu (Figure MEM.1) (1994) (4) (St. 3) (1) (2)	Confirm whether to execute the test or not.
When the following message appears on the lower screen	When entering [[0]], the system starts the test. On the
the system completes the test. 72,000 (30,000 (30,000))	other hand when entering [[1]], control exits to the MEM
	test menu (Figure MEM-1).
	Univ in this test, the test area being executed is not dis-
ESC: end, Enter: start ?	"Test executing II. Dep't touch me II"
tati yt st	This message is not displayed while VARAM area is tested
In this state (sealed of a state of the provide of the state of the st	(2.2.3) Abortion and Completion of Test
key control exits to the MEM test many (Figure MEM-1)	Although [[ESC]] and [[E2]] are available while the test is
Enter: represents [[]]. By pressing this, key (control	conducted, a time lag occurs because these key operations
returns to://Specification:of: Error Stop//umentioned in	are processed in the state where the executing program step
(a.1). The black of the second second program is a second s	is completed. The defined with the transment of the two ended
	By pressing [[ESC]], control exits to the MEM test menu
(2.1.4) Error Processing but hear 0 in the provide states of the	Eigure MEM 1 http://www.shanta.com/antion/accorate and
When the total error is zero, the system does not detect an	By pressing [[F2]], the system displays the following
error in the test. On the other hand, if the system detects	message on the lower left screen and aborts the test.
an error, it displays the following error message on the error	est stopped by user."
message field.	At the time, by pressing [[F1]], the system continues the
"Memory error ! !"	test; by pressing [[ESC]], control exits to the MEM test
In addition, if the Error Stop is specified as "Yes", the	When the following meaning encourses on the lower server
system displays the following message and stops the test.	the system completes the test appears on the lower screen,
I est stopped ! !"	Fater the received test number on the test nicht of the received test numbers
If the Error Stop is specified as "No pitnersystem displays	ा सिंहे ने कि हिंदी निर्देशने के हैं(यू.चें)ने सिंहेबल सफलोर समय है जि.
the address, data, and relating to humber where the error	ESC: end Enter: start?
view 1930 and	องมีพี่ และเป็นจะนี้ หลายหนู้แต่ของสายครอง หลุดช่าวจะบบหากน้ำ
ານ ການທີ່ບໍ່ມີທີ່ມີບໍ່ມີການທີ່ (2.2) Address complement	nissi magortanto mabbello apaib. [] [> [] misson
(2.2.1) Outline	In this state, ESC: represents [[ESC]]. By pressing this
This test serves to write the lower 8 bits of data to the	key, control exits to the MEM test menu (Figure MEM-1).
memory: address: and then lower the 8 bits of data to the	Enter: represents [[4]]. By pressing this key, control
address which is one's complement of the former address	returns to "Confermation of Test Execution" mentioned
With this procedure, after writing data to the entire area	in (a).
the system reads the data in the order where data is written	
and compares them.	
_ 2	_
• • • • • • • • • • • • • • • • • • •	



(2.2.4) Error Processing

When the total error is zero, the system does not detect an error in the test. On the other hand, if the system detects an error, it displays the following error message on the error message field and continues the test.

"Memory error ! !"

If the system detects an error, it displays the address, data, and relating IC number where the error occurs.

(2.3) Aging [Marching and ADCOMP] .

(2.3.1) Outline

This program serves as an aging test for the memory. It alternately conducts marching test and address complement test.

For details of the program, see Paragraphs (2.1) "Marching" and (2.2) "Address Complement".

(2.3.2.) Operation

When specifying this test, enter the proper data to prompts displayed sequentially as shown in Figure MEM-4.

(a) Test

(a.1) Specification of Error Stop

_ _ _ _ _ _ _ _ _ _ _ _

Error stop ? [0: Yes, 1: No] = 🛛

If an error occurs while conducting the test, specify whether to abort or continue the test.

(a.2) Confirmation of Test Execution

Test start ? [0: Yes, 1: No] = 🛛

Confirm whether to execute the test or not.

When entering [[1]], the test can be conducted from "Specification of Error Stop" mentioned in (a.1). On the other hand, when entering [[0]], the system displays the screen as shown in Figure MEM-4 and starts the test.

The system displays the current area and total area in hexadecimal notation on the lower portion of the screen.

Test mode: Marching

Pass count [0x] = \boxed{NNN} Current area [0x] = \boxed{NNNN} Total error [0x] = \boxed{NNNN}

The test mode represents the currently executing mode (Marching, Address complement). The pass count represents the number of times of test pass.

The current area represents the area being tested in the unit of 4 KB physical address. The total error represents the number of times an error occurs.

(2.3.3) Abortion and Completion of Test

Although [[ESC]] and [[F2]] are available while the test is conducted, a time lag occurs because these key operations are processed in the state where the executing program step is completed.

By pressing [[ESC]], control exits to the MEM test menu (Figure MEM-1).

By pressing [[F2]], the system displays the following message on the lower left screen and aborts the test.

"Test stopped by user."

At the time, by pressing [[F1]], the system continues the test; by pressing [[ESC]], control exits to the MEM test menu (Figure MEM-1).

Whenever one test is completed, the system increments the pass count and repeats the test.

(2.3.4) Error Processing

When the total error is zero, the system does not detect an error in the test. On the other hand, if the system detects an error, it displays the following error message on the error message field.

"Memory error ! !"

In addition, it the Error Stop is set to "Yes", the system displays the following message and aborts the test.

"Test stopped !!"

If the Error Stop is specified to "No", the system displays only the preceding message and continues the test.

(3) Decision Standard

The system represents a compare error unless the total error is "0" when the test is completed. If the system detects an error, it displays the address, data, and the relating IC number where the error occurs.

All addresses being displayed are physical addresses of the memory.

(4) Supplementary Description of Test Function

In the following, this test is exemplified in detail by using 384 KB of memory capacity.





4 KEYBOARD & SPEAKER DIAGNOSTICS 3.3.3) this program using programmable, definable keys from When the total error is zore, the syntch [05.3]. Inter [16.2] Ian Although [[380]] and [[92]] are available while the test is conducted; a time lag accure because theenitrue of the By [[F1]], the lowest sound is made, and by [[F10]], the The KEYBOARD & SPEAKER DIAGNOSTICS program schighest sound is made. And for keys from [.[F2]] to serves to test the function of the keyboard and speaker [[F9]], a sound between the lowest sound and the highest ur (referred ato ass KEY and the following discussion) of the shound is divided into 8 steps. "Memory error ! !" If the system cases of termination of a clean dependence (2.2.) a personal computer. .(1-初日初 engp)习) While executing a test of [[ESC],] is pressed twice consecugr (1v1)) Test Menu Displayateys orb ([27]], drissong (2v1) When this program is started up) the system displays the tively, control exists to the KEY test menu (Fig. KEY-1) is title and the key board and speaker test menu as shown in returned. (2.2) Aging [Merching and AUCOMP] . At the time, by pressing [[F1]], the system-YENisrugilate (2.2.1) Outline 5. LaG.D. DIAGNOSTICS on an entropy metgorg aid? ainput itest for the keyboard and test for the speakersare executed by this program at the same time a sugify unom atternately conducts marching test and address complement onThis display/is referred to as the KEY testiment. Jovanany/ (1) Outline – ನಾಜ ಯುಗಗ ಮಾರೆಗಳು ಮಾಳಗುವು. – -"The LCD DRGNOSTICS program served to test the func-SHARP Personal Computer System Diagnostics Level 3. tion of the L.C. D. of this personal computerA" (S.S) bus For the monochrome mode, the control will auto-When the total error is zero, the system (38%10/10/ Date July Date) matically interrogate it and the test will not be aperror in the test. On the other hand, if the system detects 20gmopilicablesh for the monochrome mode, and the following out Revisionard & Speaker [10] and available it in no na na is displayed in the center of the screen aupos bayalgab error message field. א ההודים 'Memory פורכר 1 " ביויייים היאה בנימר צמים וא יפר נה "לכפ", נהם צעצורוה _____2 - - - - - - - - -This test works on CRAPHICS model on 19. (1.5) in addition, it the Error Stop is let to Bese in following preserves and allocative test. Please change the display mode to GRAPHICS. Depression of the [ESC] key causes the control to return If the Firm Stop a specified to "Me", the system displays to the DIAG LOADER program. Figure KEY-1. KEY: Test Menuogason un bao in olu state ----.... (1.2) Selecting test menu VI(191) Test Menu Displaydoo olulw hubbo mate as bishnashnoshi (8) Enter the optional test No .. When this program is started up; the system display the title "Ofnput/Order is as follows: Discreption is allowing the and a confi and the LCD test menu shown in Figure LCD-1. 까[[0]카우 [[겉] 카(entering only [[겉] 카) is allowed.) - [This display is referred to as LCD testimenu. Supplements of the second se The entered numeric is displayed on the screen, and the test - <u>- - - - - -</u> program specified by [[📲]]]@Startedail or dwisd.com SHARP Personal Computer System Diagnostics Level, 3 When the test No. is to be changed, after deleting input the second second data by [[4]], enter the correct No.. WINNERS I Data Oct/01/'86 (1.3) Exiting Test Menu oblights of grandmalogs 2 (3) Liquid Crystal Display [1.1] @When [[ESC]]) is entered before entering [[----]] control ronno sur all etunexe et antes a prefaneexits the DIAG LOADER. Manager Mamour 1984 198 (0) Check pattern a set of the the sources កត់ អា(1)⁽Line move ដោះអាច ខ្មែរស្រី សោវន័យ សមានរាមចាស់អា (2) Explanation of the program (a,b) > balone al (2) Stripe we and the paintable dealer part rous. (3)² LCD RAM test and 1M a month or any others account A simulation screen of the keyboard is displayed. Please input command? When the any key is pressed under this status, the appro-_ TOMOR (II) TO DOLATOR SOMOS OF THE AND LODGED AND A DOLATOR AND A DOLATOR AND A DOLATOR AND A DOLATOR AND A D priate key on the simulation screen is changed, and the Fig. LCD-1 LCD Test Menu hard code (direct data from the keyboard) of the pressed key is displayed in the key data position at the bottom of Test model Marchine 800 the screen. (1-2) Selecting test menu "Key data = 0x 🕅 🕅 " Enter the optional test No .. When the any key is pressed, an asterisk "*" is displayed by Input order is as follows: 1-3-3-4 Fass count [(87] -Current area i 0xj = Mat La f (jgift) [[[2]] ~ [[0]] inversion at the appropriate key position. Keys with LEDs such as [[Caps Lock]] contain the func-(entering only [[]] is allowed in case of [[0]] to stol tion as given above, and the LED of the appropriate key is The entered numeric is displayed on the screen, and the test set to ON or OFF every time the key is pressed. When the abprogram specified by [[[]] is started: soom is a sill LED on the keyboard is set to ON or OFF a message is dis--D When the test Noviis to be changed; after deleting input/) played on the screen. For example, when [[Num Lock]] is data by [[🖛]], enterthercorrect Non trainen all allos pressed, and if the LED is set to ON, "Num Lock ON" is

おい and ni bateat gniad cons and atnoser-gat satis from to and an¹(化3)のExiting Test Manu an日 … exactions Library (g また) る When [[ESC]] is entered中語eforementering [[()])の control exits to the DIAG LOADER.

Besides, the speaker in the main unit may be tested by

This message is the newest message when the appropriate

displayed.

key is pressed.

(1.4) Others

Parameters of each test program are entered through key 10 + [[]]. When each test program is called, by pressing [[ESC]], control exits to the LCD test menu (Figure LCD-1).

(2) Explanation of each test program

(2.1) Check pattern

(2.1.1) Outline

A checker is displayed on the L.C.D.

(2.1.2) Operation

When this test is specified, display is started automatically. Therefore, operation is not neeeded.

(a) Test

(a.1) Displayed pattern

As a pattern, all dots of the L.C.D are displayed; then, each checker of 1, 2, 4 and 8 dots is displayed sequentially by inversion. Then, the initial display is returned.

(a.2) Interruption or termination of a test

While executing a test, if [[ESC]] is pressed, processing is terminated and control exits to the LCD test menu (Figure LCD-1); if [[F2]] is pressed;

"Test stopped by user."

is displayed to interrupt processing. Under this status, if [[F1]] is pressed, processing is restarted, and if [[ESC]] is pressed control exists to the LCD test menu (Figure LCD-1).

(2.2) Line move

(2.2.1) Outline

An ablique line is moved on to the L.C.D.

(2.2.2) Operation

When this test is specified, display is started automatically. Therefore, operation is not needed.

(a) Test

(a.1) Display pattern

An ablique line is moved from the upper left of the L.C.D. to the right by each dot. and when it has reached the rightmost bottom, the screen is inverted, and a white oblique line is moved in the same way.

When these two displays are completed, the initial display is returned. Then, processing is repeated.

(a.2) Interruption and termination of a test

While executing a test, if [[ESC]] is pressed, processing is terminated and control exists to the LCD test menu (Fig. LCD-1) If [[F2]] is pressed;

"Test stopped by user."

is displayed to interrupt processing. Under this status, if [[F1]] is pressed, processing is restarted, and if [[ESC]] is pressed control exists to the LCD test menu (Figure LCD-1).

(2.3) Stripe

(2.3.1) Outline A stripe is displayed on the L.C.D.

(2.3.2) Operation

When this test is specified, display is started automatically. Therefore, operation is not needed.

(a) Test

(a.1) Display pattern

Displays of a patterns containing horizontal, vertical, and each inversion are repeated on the L.C.D.

(a-2) Interruption and termination of a test

While executing test, if [[ESC]] is pressed, processing is terminated and control exists to the LCD test menu Figure LCD-1) is returned.

If [[F2]] is pressed;

"Test stopped by user".

is displayed to interrupt processing. Under this status, if [[F1]] is pressed, processing is restarted, and if [[ESC]] is pressed, control exists to LCD test menu (Figure LCD-1).

(2.4) LCD RAM test

(2.4.1) Outline

Write/read test of display buffer is executed.

(2.4.2) Operation

When this test is specified, the test is started automatically. Therefore, operation is not needed.

(a) Test

(a.1) Address complement

After writing address offset into LCD RAM as data, the system reads the data and compares them.

(a.2) Marching

After writing the fixed data into LCD RAM, the system sequentially reads data and compares it.

(a.3) Interruption or termination of a test.

While executing a test, if [[ESC]] is pressed, processing is terminated and control exists to LCD test menu (Figure LCD-1). If [[F2]] is pressed;

"Test stopped by user."

is displayed to interrupt processing. Under this status, if [[F1]] is pressed, processing is restarted, and if [[ESC]] is pressed control exists to the LCD test menu (Figure LCD-1). When the following display appears at the bottom of the screen, the test is terminated normally:

LCD RAM TEST OK !!

When entering either [[ESC]] or [[...]] is entered, control exists to the LCD test menu (Figure LCD-1).

(a.4) Error processing

When an error occurs while executing a test, the following display appears:

"Address complement error !!" or

"Marching error !!"

and an address or data in which an error occurs is displayed as follows:

V-RAM address location :0×团团团 Write & Read data :0×团团团/0×团团团

If [[ESC]] or [[entered, control exists to the
bus leading lighter LCD	 noscas yangata (1.5) nos antañas o lo avaleiti
(a.5) Memory map at and a	ກ ໂດກລະຊຸວາ ແລະກະນຳຄວາສາ ຄໍລະອ
The area in which test is to	b be executed is given below.
el maier \$88000.	1]] H Job Milikaszi sinW
un tre LCD אול מנופע Pieure - Color/G	raphic Alpha
Displa	ay Buffer (EVEN)
\$B9F3F	North Freedom
ti ,aussa sint ishati ,anisesoo	id tehnoper of powerds of
vir destantistic relation (1992) Hone Anno 1993 (1997) (1997)	Altranung, Bostanig y [[1]]
Displa	raphic Alpha (1997) (1997) av Buffer (ODD)
	12:22 10:22 10:22 10:22 10:22 10:22 10:22 10:22 10:22 10:22 10:22 10:22 10:22 10:22 10:22 10:22 10:22 10:22 10:2
\$BBF3++	(1.4.3) (1.4.3)
tffer is excetted.	Weite Head test of display bu
6 REAL TIME CLOCK D	AGNOSTICS
ine test is stored an entited	Vises/ Sectorescu When the eester model feet
The REAL TIME CLOCK	AGNOSTICS program serves
to test the function of the c	lock (refered to as CLK in the
following explanation) of this	ersonal computer
**************************************	he following programs do
* not turn off this perso	inal ¹⁷ computer. Otherwise,
$\overset{*}{*}$ it causes the clock to	go wrong and the battery: 🛔
**************************************	ed: 000000000000000000000000000000000000
(1.1) Test Menu Display	 A SAUS CONTRACTOR OF A DEFINITION
When this program is started	deup, the system checks the
battery and internal RAM C	hips, If the system detects an
[[ESC]] or [[l exits to the DIAG LOADER.
When the system does not a	letect an error, it displays the
title and clock test menu as	shown in Figure CLK-1. This
	selection diagnostics Level.3
Date Jul/01/'85	. <u>.</u>
	1. 网络龙龙属 · 网络雷马马克
Real Time Clock [1.0]	
(0) Clock reset & set	
Clock read	1911 - Anna Colombia ann an 1917 - 1917 Anna Santa Anna Anna Anna Anna Anna Anna Anna
(2) Clock adjustment	
(o) maxin display	(e.a) Earlor proceeding
is now for any state of the programme	Please input command ?
	- 「おいり 回転」 (分析) (分)
Figure CLK-1 CLK Test Men	
ber alcau er chono totto na dab	us manologic ve sanibos?" "Mesona onicions?!"
	"Andires or toponan on "If anno oning crow If" Mariado so deta mada Mariado so deta mada
الأنفي والمراجع والمسا	No manufar to endoA" "Marching on a W" and an address of data m w w follows
tana ang ang ang ang ang ang ang ang ang	nambar weedboA "Marching crow W" Watching crow W by matsbar states which a product a state of a W-L-M a state of a state of a
	 Be manufactor endow? Warehing onto: W? Warehing on data bas wollon a Standard sector, Mr. JV Standard sector, Mr. JV Warehows basis basis

(1.2) Selection of Test Menu multO (A, I) ∂TEnter the required test number on the test menu as follows: pril[[0]] to [[3]]:(1:digit) +:[[↓]]]:(When specifying [[0]],
Oit.is:possible to press![Ionly.):relearnes ([OE3]) The number being entered is displayed on the screen. When pressing [[]], the specified diagnostics program is started up.
To change the test number, delete the number being enter- ed by using [] and then enter the correct number. A checker is disparation boyanging in the LCD.
(1.3) Existing Test Menu When [[ESC]] is entered before entering?followed)by ທີ່ເກີຍໃນການເປັນເປັນເປັນເປັນເປັນເປັນເປັນເປັນ ອີດໂລຍອກ ໂດຍ ຄຸດປາມເປັນ ອາດປາມເປັນ ເປັນເປັນເປັນເປັນເປັນເປັນເປັນເປັນເປັນເປັນ
(a) Test (a)
Parameters of each test program areaventered through horfOtkevs (P)[[[]]] (When leach test program is called) by V) pressing [[ESC]] (Control batts to the CLK test offen (Figure CLK (P) (For the call of the control of the contro
a 2 Interruption or termination of a test
역(2) Description of Program을 하는 것이는 3 Shitubaxa - Jud?
m(2.1) Clock Reset & Seth of these levelop bos beisningen
(2.1.1) Outline (Darma and an a 2.1) Bride set
This program serves to set date (year/month/and/day) and time (hour) minute, and second) and then to display time
Deng set and the current times have of the part of the
$\Omega(0.00, \Omega)$ to "December 31, 2079 23: 59: 59"
Date and time are directly written and read to and from the
hardware.
1997 - Albert and a bow and at supply
(2.1.2) Operation
When specifying this test, enter the proper data to prompts displayed sequentially as shown in Figure CLK-2.
(a) Jest (a.1) Data Data Sat (1) Spacify year month and
(a.1) Date Data Set (1) Specify year, month, and day
1. Let both upper encoded for an experimental opposition.
ាក់ដាល់ តាហា សុកាលាស្រាល់ សេសាសាសាសាសាសាសាសាសា
<u>n vie is eine eine eine heinen vielen om eine eine eine eine eine eine eine ein</u>
Set year, month, and day (YYYYMMDD) where year
(YYYY) is four digits, month? (MM) is two? digits, and day
(DD) is two digits. Note that the ten's digits of month and
day (DD) is two digits. Note that the ten's digits of month
and day should be filled with zero when the month number
is in the range of "January" to "September" and when the
Ti day number is in the range on Ditors and a set set and a set an
1085 : entet 3/10850909/11 If date tis improperly specified
(such as February 30), the system cancels such data entry
and inquires data entry once again.
(2.2.1) Critine
(a.2) Time Data Set (2) Specify hour, minute, and (1.3) Second. Second.
(2.0.2) Operation
「Timeset」(HHMMSS) ま 図図図図図のdinatje ai tou aidi andW

Set hour (HH), minute (MM), and second (SS) in each two digits in the 24-hour system.

For example, when specifying 7:9:9 pm, enter "190909". If time is improperly specified (such as 19:60:51), the system cancels such data entry and inquires data entry once again.

(a.3) Confirmation of Date and Time Set

Confirm whether to execute the setting of data and time or

not. When the system completes the setting of date and time, it also set the digits of second.

When entering [[1]], the test can be conducted from (a.1) "Date Set (1)" mentioned in (a.1).

On the other hand when entering [[0]], the system registers date and time data being set and displays date and time being set (set time) and current date and time (read time).

								 		-	
Set	time:	SEP-	09-19	85	19:	09:0	9				
Read	time:	SEP-	09-19	85	19:	09:3	8				
							-	 	—		 _

The program automatically converts the month display format from numeric digits to alphabet characters. Note that the system display "JAN-01-1980 00:00:00" just after "DEC-12-2079 23:59:59".

(2.1.3) Abortion and Completion of Test

If [[ESC]] or [[4]] is entered control exits to the CLK test menu (Figure CLK-1).

(2.2) Clock Read

(2.2.1) Outline

This program serves to read data and time data and to display the current date and time.

(2.2.2) Operation

When this test is specified, the system immediately executes the program and displays the message as shown in Figure CLK-3.

(a) Test

Read Time: SEP-09-1985 19:09:09

The system always displays the current date and time. The program automatically converts the month display format from numeric digits to alphabet characters.

(2.2.3) Abortion and Completion of Test

If [[ESC]] or [[4]] is entered, control exits to the CLK test menu (Figure CLK-1).

(2.3) Clock Adjustment (2.3,1) Outline

This program serves to output the hardware signal 2048 Hz for adjusting oscillating frequency of the clock circuit to the test terminals of SWQ terminals (pins No.23) of the RTC [MC146818].

This program calibrates time lag by setting the hardware signal to 2048 Hz by using of a frequency counter.

To conduct the frequency calibration, adjust the trimmer condenser [C11] on the circuit.

(2.3.2) Operation

When specifying this test, system immediately executes the program and displays the message as shown in Figure CLK-4.

-______

Therefore, operation is not needed.

Adjusting clock [2048 Kz] ON !

(2.3.3) Abortion and Completion of Test

If [[ESC]] or [[]] is entered control exits to the CLK test menu (Figure CLK-1).

(2.4) RAM Display

(2.4.1) Outline

This program displays the contents of the internal RAM chips of the RTC.

(2.4.2) Operation

The system does not require the operator's intervention. It immediately executes the DIAG program and displays the message as shown in Figure CLK-5.

It dumps ASCII codes and characters in the range of 0x0E of 0x3F of the address register.

(2.4.3) Abortion and Completion of Program

By pressing either [[ESC]] or [[]], the control exits to the CLK test menu (Figure CLK-1).

puter.

Date Jul/01/'85

Serial IO [1.0]

(0) Test serial IO

Figure SIO-1 SIO Test Menu

(1.3) Exiting Test Menu

exits to the DIAG LOADER.

(2) Description of Program

(2.1) Test Serial IO

(2.1.2) Operation

For details, see (2.4).

(a) Test

(2.1.1) Outline

7 SERIAL I/O DIAGNOSTICS memory (A. shol) (8.3) Set hour (KH), minute (MM), and the data length in (MH) runt 198 (2.3.1) Ordine digits in the 24 hour system, This program serves to current the hardware ensures (1) . (a.2) Specification of Stop Bitoads north , algument of T The SERIAL I/O DIAGNOSTIC program serves to test the all_(13.00)21_ss_imis}_buildons_Virogoanni_si_rmit_it_ system caocels such data entry and inquired data entry on Stop bit ? [0: 1 bit, 1: 2 bit] function of the RS-232C serial interface of personal com-FIG MC/434101 .misuo Reffered to SIO in the following explanation. noo you to 2040 Hz by rengin a frequency cour Specify the stop bit. (a.S) Confirmation of Date and ·赏济洋芹产为村产产和考考术米产产并大大用并并米米产产的的为利米的用产用的方式为选考考关于 This diagnostics programation designed to conduct as (a.3) Specification of Parity Type 1 3 april 1 do 108 loop test. Consequently, it is necessary to connect the _____ connector, which is manufactured in accordance (with) or (\$ 55(4) SIO/(Loop)/TestoUse/Connector Specification////* Confirm Warity type? [O: Odd) ? Noney 29 Even was Aw million >: to the channel to be tested as a dummy load a memory to time, it also set the digits of second. (1.1) Test Menu Displaysabaan ton at noisaago, arohaad T (Spècify the parity type, no set on [[1]], the tost on softw "Dete Set (1)" mentioned in (e.1). On the other hand when entering [[0]], inc system registers When the system starts up this program, it displays the title and the SIO test menu as shown in Figure SIO-1. Adjusting clock (2048 Kz) ON 1 anin-pesatepavelopia provisa geledadeb anin-pesater _(emit b.as) omit bns erso inerrep bns (emit ies) ies om st Test start ? [0: Yes, 1: No] = 🛛 SHARP Personal Computer Diagnostics Level 3 (2013) Cer Hime SEP 06 1986 18:00 00 [1] J. B.O. F. or H. Z. F. as entered control exists to the GLE. Confirm whether to excute the test or note: while basitest menu (Equire CLIC-1) When-entering [[1]], control exits to (a.1) "Specification of Data Length". When entering [[0]], the system excute valua 新香油 (公司) the test carato raderly or ation oracles and inner anthatt of the and the system dealer "MAC" (algobies we add the (a.5) Execution and Completion of Test. (a.5) Execution and Completion of Test. MAR L(1) Character transport test Multiple numbers Please input command ? The program causes the system to conduct 4 types of tests for the port. If the system does not detect an error, it dis-BEFR CERT plays ("OK) 11' on the right field of the test item on the ประหางกระทำประสภาพารีการกระการสุดภาพการกระก screen. Conversely, if the system detects an error, it dis-(1.2) Selection of Test Menu plays an error message. Enter the required test number on the test menu as follows. [[0]]' or [[1]] + [[4]]' (When specifying [[0]], it is Good 11 unlin0 (1.S.) possible to press [[] only.) The number being entered ವರ್ಷದ ಗಂಗಾಮಾಡುವ ಅಥವಾಣ ಶ್ರಜ್ಞ is displayed on the screen. When pressing [[4]] key, the specified diagnostics program is started up. When one or more of the 4 types of tests are NG, the To change the test number, delete the number being entersystem displays the following message. and using O (2.8.8) ed by using [[]] and then enter the correct number. <u>n en ver Alsteig were duursk regi (polyders a pol engrueliji – </u> no<mark>no good</mark>ypic za oracen odd system bus mechang e s .E.M.10 ESC: end, Enter: start? When [[ESC]] is entered before entering [[ttoī (When pressing [[ESC]], control exits to the SIO test menu 1 21 as shown in Figure SIO-1. When pressing [[. control_exits_to_(a.1.) "Specification of Data Length". ດາຍໄປ ໂບເຮັດເອັດ ກາວນາມວັດເປັນ 2014 ເປັນເປັນ 2015 ເປັນ (a.6) Description of Test Contents ກາງອີດເອັດ ເອັດເອັດ ເປັນ 2014 ເປັນ ເອັດເອັດ ເປັນ ເອັດເອັດ ເປັນ ເອັດເອັດ ເປັນ The program serves for conducting a loop test of a channel in order to test the condition of the hardware. Transmission rate is set to 9600 bps. (a.6.1) SD \leftrightarrow RD Tests the send data line and receive data line. When specifying this test, enter the proper data to prompts The system causes 256 bytes of data from 0x00 to 0xFF displayed sequentially as shown in Figure SIO-2. to be transmitted in the asynchronous mode, receives the data byte by byte from the receive data line, compares that the transmitted data is the same as the received data. When (a.1) Specification of Data Length the system considers that both data are the same, it transmits the next data. If it determines that both data is not the Data length ? [0: 7 bit, 1:8 bit] = 🕅 same, it displays the following message.

-12-



Specify any characters up to 30 characters. After pressing [[]], the system completes data entry SD timeout. and then immediately starts this test. _____ or (a.3) Execution and Completion of Test After starting the test, the system sequentially displays _____ characters being transferred. Upon completion of the test, RD timeout. the system displays the following message. _____ For details of error messages, see (3). ESC: end, Enter: start ? -----(a.6.2) RTS \leftrightarrow CTS Tests the RTS-CTS circuit. When pressing [[ESC]], control exits to the SIO test menu By turning ON/OFF the RTS signal, the system reads these as shown in Figure SIO-1. states by means of the CTS and tests them. If the system When pressing [[]], control exits to (a.1) "Specification detects an error, it displays the following message. of Transmission Rate". If the system detects an error, it completes the test even while it is conducting the test. **RTS-CTS** error. For example, if the system detects that TS reg is not _____ empty, it displays the following message. (a.6.3) DTR \leftrightarrow DSR ----Test the DRT-DSR circuit. TSreg not empty. By turning ON/OFF the DTR signal, the system reads these ESC: end, Enter: start? states by means of the DSR and tests them. If the system detects an error, it displays the following message. When pressing [[ESC]], control exits to the SIO test menu _____ as shown in Figure SIO-1. DTR-DSR error. When pressing [[]], control exits to (a.1) "Specification of Transmission Rate". (a.6.4) PORT (3) Error Message Tests the CI and CD circuits. Since the following error messages are the same as those of By turning ON/OFF the DTR signal, the system reads these the 8250, it is advisable to also refer to them. states by means of the CI and CD and tests them. If the SD timeout system detects an error, it displays the following message. Represents that a response to send data could not be detected in the specified period. BD timeout Port error. Represents that an interrupt of receive data in response _____ to send data could not be detected in the specified (2,2) Character transport test period. (a) Test TSreg not empty This test is conducted by specifying the transmission rate The transmitter shift register was not empty. and entering any characters to be transferred. Overrun error The data length, stop bit, and parity type are set to 8 bits, The SIO received 4 or more characters because the CPU 1 bit, and odd, respectively. retrieved receive data with a delay. In other words, the system received characters while all RX buffers became (a.1) Specification of Transmission Rate full, Framing error Represents that the system detected "O" in a stop bit. Baud rate ? Parity error [0: 110, 1: 150, 2: 300, 3: 600, 4: 1200, 5: 2400, 6: 4800, Represents that the system detected a parity error. 7:9600] = 🛛 Compare error Represents that the transmit data did not accord with Specify the transmission rate. the receive data. RTS-CTS error (a.2) Specification of Transmission Data Represents that this control line was not properly connected. Input characters [Max 30 chara] = DTR-DSR error

Represents that this control line was not properly connected.

 Port error and as safe 0% of proceeding the yeargs you Represents that the CD and Cl which using this line did not properly function? and class viols had an need by a 	 (1.2) Selection of Test Menu Enter the required test number on the test menu astfollows. [[0]] to [[4]] (1 digit) + [[4]]) (When specifying [[0]], it is possible to press [[4]] only)
(4) SIO Loop Test Connector; Specification Brand (3.5)	The number being entered is displayed on the screen. When
This specification deals with the connector which is used as	pressing
test program	To change the test number, delete the number being enter-
i i i i i i i i i i i i i i i i i i i	ed by using [[🗲]] and then enter the correct number.
(4.1) Connector Type 25 nine solder-type female contractor (Hiross HDBB:255	Cordetails of arreststates see (3).
or equivalent output connector)	(1.3) Exiting lest Menu When [[ESC]] is entered before entering-[[]==]][control
When precise [[ESG]], control exits to div S(0 test menu	exits to the DIAG LOADER. Hugh STO-STA and the
(4.2) Wiring Procedures	erali dava matege ado Astro-200 all HED/20 gainto ye
(a) No.2 (SD) $< ->$ No.3 (RD) \rightarrow $>$ No.3 (RD)	When selecting one diagnostics program except for (0), flead
	drive status, the system displays the following message. At
(c) No. 20 (DTR) $< - > No. 8$ (CD) $< - > No. 18$ (CD) $< - > No. 22$ (CI) $< - > No. 6$ (DSP)	the time, insert the test disk to the FD drive to be tested.
where No.xx represents connector pin number.	
and a set of the second process of the second s	
	Please set testing media.
	3. Hereiten and State a
(1) Outline	When inserting the test disk(s), into the FD drive(s) and
The FLOPPY DISK DIAGNOSTICS program serves to test	pressing [[]], the system starts testing the FD drive (s).
in the following explanation. This program is applicable	it [[ESC]] is pressed, control exists to the FDD test menu
only for an MD5201 device with is equipped with the	(Figure FDD-1).
standard of this model.	Capacity and number of Sector in the Both Drive A and Drive B will be indicated on the CBT Display as shown
only for an MDo201 device with is equipped with the standard	below, then each menu will start.
If a single deck drive unit is used, drive unit assignment is not	· 그는 사람들이 있는 것은 것은 것은 것은 것은 것을 하는 것은 것을 수가 있다. 것은 것을 가지 않는 것은 것을 수가 있는 것은 것을 하는 것을 수 있다. 것은 것은 것을 하는 것을 가지 않는 것이 있다. 것은 것은 것은 것은 것을 하는 것을 수 있다. 것은 것은 것은 것은 것을 수 있다. 것은 것은 것은 것은 것은 것을 수 있다. 것은 것은 것은 것은 것은 것을 수 있다. 것은 것은 것은 것은 것은 것은 것을 수 있다. 것은 것은 것은 것은 것은 것을 수 있다. 것은
enabled and no test could be carried out to the drive unit Be No display message will compute connection with the	be 1970-000 We and the prive Billion and the Billion of the Billio
drive unit B. Careag barbarg and at both the	
* * *	
* Mini-floppy disks applicable only for the MD5201 *	(1.5) Others
	Parameters of each test program are entered through 10
(1.1) Test Menu Display	pressing the [[ESC]] control exits to the FDD test menu
When this program is started up, the system displays the	(Figure FDD-1)) in teams which are been a trade of the fatter
title and the floppy disk program test menu as shown in Figure FDA	(2) Description of Program
This display is referred to as the FDD test menu.	(2.1) Read Drive Status
ter in the second s	(2.1.1) Outline and a methodated be availably bage of the
SHARP Personal Computer Diagnostics Level, 3, Anna 1, 10	This program serves to display the status of the FD drive on the screen
Date Oct/01//86 Detael-5 History and Sult and surgers	Baudinate ? To sto state 5 and 20 and 5 and 5 and 50
FIGHEDIV HISK TH, PPIONED AND AND YEAR TARK THE POLICY	When specifying this test, the system displays the current
	status of the FD drive as shown in Figure FDD-2. While this
diw br(0)-Read drive status ball of the status	program is executing, the system periodically senses the
(1) FDD Write, read & compare Charles and (2) FDD Read only	change, it causes the buzzer to sound and displays the new
(3) -00 Track sensor adjustment held that menes)	status on the screen.
(4) Tracking adjustment	With this test, the status of the FD drive is displayed. When
Please input command ? M	test menu (Figure FDD-1).

(2.2) FDD Write, Read & Compare (2.2.1) Outline

This program serves to check that the write/read operation is properly performed in such a manner that the system writes data to the floppy disk, reads the same data from the floppy disk, and then compares them. (The data to be written is 00 to FF increment pattern when the number of times test pass is 000; otherwise the data is 4-byte repetitive pattern of "EB6DB6DB".)

The program causes all cylinders from 01 to 39 to be tested.

**	When this test is conducted, all the contents stored in
* *	the disk are destroyed. So be very careful with this
*	test.
*	In addition, it is necessary to release "Write Protect",
* * * 1	when excute this test.

(2.2.2) Operation

(a) Specification of Device

(a.1) Specification of Test Drive

Test drive ?

[0: Drive A, 1: Drive B, 2: Drive A & B] = Ø

Specify the FD drive name(s) to be tested.

Press [[0]] to test only the FD drive A; press [[1]] to test only the FD drive B; press [[2]] to test both the FD drives A and B. (However, note that when both the FD drives are tested, their disk formats should be the same. If their disk formats are not the same, separately conduct the test by specifying a single FD drive (A or B)).

If the FD drive being specified is in the Not ready state, the system displays the following message on the lower screen and stops testing the FD drive.

"Drive not ready."

At the time, by pressing [[ESC]], control exits to the FDD test menu (Figure FDD-1).

(a.2) Specification of Range of Cylinders to Be Tested

Cylinder scope ? $[01 < -> 39] = \boxtimes \boxtimes - \boxtimes \boxtimes$

Specify the range (scope) of the cylinder to be tested by entering the first cylinder number and the last cylinder number. For example, when entering "10 - 12" if the test disk is the 09 sectors/track format, the test range from 10.0.01 to 12.1.09 is specified.

When entering both cylinder number are [[]] only or [[0]] + [[]], the entire range of cylinders is specified. In this case, if a 09 sectors/track format disk is used, cylinders from 00.1.01 to 39.1.09 are specified.

(a.3) Specification of Counting Sectors

Specify the number of counting sectors capable of being processed by one instruction.



This counting value depends on the disk format for use. For example, when a <u>09 sectors/track format disk</u> is used, the system displays the following message.

Sector count? [1, 3, 9] = 🛛

When a <u>08 sectors/track format disk</u> is used, the system displays the following inquiry.

"[1,2,4,8] = 🛛 "

If other value which is not displayed is entered, the system does not accept such a value and requires proper data entry once again.

When entering [[0]] to [[]] or only [[]], assiumig that the maximum value of the sector count is specified, the system executes the next program.

(a.4) Specification of Read after Write

Read after write ? [0: Yes, 1: No] = 🕅

Specify whether to perform the read-after-write procedure. To perform the read-after-write procedure, press [[0]]. Otherwise, press [[1]].

(b) Test (b.1) Specification of Number of Times Retry

Retry count ? [0 < -> 4] = [0]

Specify the number of times retry.

While the system reads/writes data from/to the disk, if it detects an error (including an error caused in the read-after-write test), it tries to perform the same operation for the number of times specified.

(b.2) Specification of Error Stop

Error stop ? [0: Yes, 1: No] = 🛛

If an error occurs while conducting the test, specify whether to abort or continue the test.

(b.3) Confirmation of Test Execution

Test start ? [0: Yes, 1: No] = 🛛

PC-7000A

Confirm whether to execute the test or not a printing aid in a Whensentering [[1]]) control-exits to (a.1) "Specification of Test Drive" mentioned in: (a.1) On the other hand, when entering [[0]], the system displays the screen as shown in Figure FFD-3 and starts the test. The lower left screen shows the number of times test pass and physical address [[TTHSS]; the lowe] right screen shows the test mode. (Note that the number of times test pass is denoted in hexadecimal notation and the physical maddress in decimal notation. The lower left screen is not physical address [[TTHSS]; the lowe] right screen shows the test mode. (Note that the number of times test pass is denoted in hexadecimal notation and the physical maddress in decimal notation. The physical ph

(b.4) Abortion and Completion of Test (a) (w) (a) (x (b) (a)) By pressing [[ESC]] while the system executes the test, control exits to the FDD test menu (Figure FDD-1); by pressing [[F2]]; the system displays the following message on the forwer left screen and aborts the test on barby where the

"Test stopped by user if why ratio have demonstrated and the first stopped by user if why ratio have demonstrated and the formation of the system continues the test; by pressing [[ESC]], control exits to the FDD test menu (Figure FDD-1).

(c) Error Processing

(c.1) Read/Write Error

If the system detects an error after if conducts the test iuntil it starts the seek operation, it stops the test irrespective of ""Yes" or "No" of the error stop described in (b:2). At the time; by pressing [[ESC]) controllexits to the FDD test imenue (Figure (FDD I), stop entrol while it conducts the read/ write? check test, it displays the command parameter and status where the error occurs (Figure (FDD)4)) and tincrements the right-hand error counter. If the error stop is set to "No", the system updates the error counter every time an error occurs and continues to conduct the test (the system only displays the newest error information).

On the other hand, if the error stop is set to? Yes?; the system stops the test if an error occurs. At the time, by -pressing [[]]; the system continues the test.

On the other hand, by pressing [[ESC]], control exits to ythe EDD test menu (Eigure EDD 1), mucho no month in a month of the end of

For details of error messages, see, (3) and porta of authenia

(c.2) Compare Entropyoex: 1) the indistribution (E.d) If the system detects an error when it writes data in the write mode, reads the data, and compares them, it displays the error on the lower right screen; if any of sittle data.

magmoth : S back , with G GT (S.S) Compare error (2.2.1) Outline This program serves to check that the WWW C. (SO serves ″Data?[°0x]?≈≤? EB6DB6DB≎≪ ≏i≫∋x**XXXXXXXX**0∋gorg a writes date to the floppy disk, reads the same date from the When the error stop is set to No?? the system updates the error message whenever it detects an error. (The screen shows the newest error information. [38 2083" to matter The system updates the error counter whenever t detects an error. Therefore, it displays the number of occurrences of errors in the unit of 4 bytes, and a second constants as While the Error Stop is set to "Yes"? the system stops the test when it detects an error. In this state, when pressing [[]], the system compares the next data. If the system does not detect an error, it continues the test. On the other hand, when pressing [[ESC]], control exits to the FDD test menu (Figure FDD-1). In order to abort the data compare test and to execute the next command, press [[-]] instead of [[4]] Data comparison is conducted every 4 bytes. In the following the meaning of the display is described. Adrs [0x] = 0004 Top address at which the system detects a comparison ABA mulerfor. Data = <u>EB6DB6DB</u> < - > <u>EB00B6DB</u> actly the CD drive name(s) to be tosted. ten යා බෝ Write.dataaviso බිදි යReadidataat හා 10] දී හා and the FE drive Spreed [21] to test but the FE drive e in the preceding example whe data includes an errob at the second byte. This address becomes address 0005 (b) ve lease and the strategy without the and steam (2.3) FDD Read Only of the All owned GT about conception (2.3.4): Outline Walt user balloage onto by read 4 and aThise program[®] serves[®] to we head with a bid at a sign operly pread from the floppy disk. The system tests the entire area of cylinders from 01/10 39. t, the time, by packing ([ESCI), control adds to the FDD (2.3.2) Operation a the the store of (a) Specification of Device (a.1) Specification of Test Drive a section regime (a.1) e bigana eda apar Test drive ? W.S.F ${\bf Y}_{i}$ [0: Drive A, 1: Drive B, 2: Drive A & B] = 🕅 - न्यूकतार्भ- कार्य कर एंट्रक्रूस्ट कर्गनांक क्यूकरण का विद्यालय ह -Specify the FD drive name(s) to be tested all only granding 7Press [[0]] to test only the FD drive A; press [[1]] Lto test anly the FD drive B; press [[2]] to test both the FD drives A and B. (However, note that when both the FD drives are ntested, their disk formats should be the same off their disk . formats are not the same, separately conduct the test by ,ispecifying a single of Dadrive (A) oraBD a 11 , and and an If the FD drive being specified is in the Not ready state, the system displays the following message on the lower screen and stops testing the ED3driverupO to notisoffluon2 (8.8)

Build(DriveInot_ready.see gramuos to reduces out rylicity) At the time, by pressing [[ESC]];controbexits/to-the:EDD test mode (Figure FDD-1). Cylinder scope ? $[01 < -> 39] = \square \square - \square \square$

Specify the range (scope) of the cylinder to be tested by entering the first cylinder number and the last cylinder number. For example, when entering "10 - 12" if the test disk is the 09 sectors/track format, the test range from 10.0.01 to 12.1.09 is specified.

When entering both cylinder number are [[]] only or [[0]] + [[]], the entire range of cylinders is specified. In this case, if a 09 sectors/track format disk is used, cylinders from 00.1.01 to 39.1.09 are specified.

(a.3) Specification of Counting Sectors

Specify the number of counting sectors capable of being processed by one instruction.

This counting value depends on the disk format for use. For example, when a 09 sectors/track format disk is used,

Sector count? [1, 3, 9] = [

When a <u>08 sectors/track format disk</u> is used, the system displays the following inquiry.

"[1, 2, 4, 8] = 🛛 "

If other value which is not displayed is entered, the system does not accept such a value and requires proper data entry once again.

When pressing [[0]] + [[]] or only [[]], assuming that the maximum value of the sector count is specified, the system executes the following program.

(b) Test

(b.1) Specification of Number of Times Retry

Retry count ? [0 < ->4] = [x]

Specify the number of times retry.

When the system reads data from the disk, if it detects an error, it tries to perform the same operation for the number of times specified.

(b.2) Specification of Error Stop

Error stop ? [0: Yes, 1: No] = 🕅

If an error occurs while conducting the test, specify whether to abort or continue the test.

(b.3) Confirmation of Test Execution



Test start ? [0: Yes, 1: No] = 🛛

Confirm whether to execute the test or not.

When entering [[1]], control exits to (a.1) "Specification of Test Drive mentioned in (a.1)". On the other hand, when entering [[0]], the system displays the screen as shown in Figure FDD-3 and starts the test.

_ _ _ _ _ _ _ _ _ _ _ _ _

The lower left screen shows the number of times test pass and physical address [[TTHSS]; the lower right screen shows the test mode. (Note that the number of times test pass is denoted in hexadecimal notation and the physical address in decimal notation.)

Pass N [0x] = XXXX THSS = XXXXXX Test mode: Read Test drive: Drive A

In addition, the right end of the screen shows the number of occurrences of errors in each type. (The number of occurrences of errors is also denoted in hexadecimal notation.)

(b.4) Abortion and Completion of Test

By pressing [[ESC]] while the system executes the test, control exits to the FDD test menu (Figure FDD-1); by pressing [[F2]], the system displays the following message on the lower left screen and stops the test.

"Test stopped by user."

At the time, by pressing [[F1]], the system continues the test. Whereas, by pressing [[ESC]], control exits the FDD test menu (Figure FDD-1).

(c) Error Processing

If the system detects an error after it conducts the test until it starts the seek operation, it stops the test irrespective of "Yes" or "No" of the error stop described in (b.2). At the time, when pressing [[ESC]], control exits to the FDD test menu (Figure FDD-1).

If the system detects an error while it conducts the read check test, it displays the command parameter and status where the error occurs (Figure FDD-4) and increments the right-hand error counter. If the Error Stop is set to "No", the system updates the error counter every time an error occurs and continues the test (the system only displays the newest error information).

On the other hand, while the error stop is set to "Yes", the system stops the test if an error occurs. At the time, when pressing [[]], the system continues to conduct the test. Whereas, when pressing [[ESC]], control exits to the FDD test menu (Figure FDD-1).

For details of error messages, see paragraph (3).

PC-7000A	
(2.4) 00 Track Sensor Adjustment o nonservince (S.a) (2.4.1) Outline This program serves to check that the 00 track sensor, which detects the cylinder 0 by seeking the head positioned	(b.2) a Specification of Repetitive Testal solution (S.s) Once the system completes the test, it displays the follow- ing message on the lower left screen.
at the cylinder 0 to cylinder 4 and by returning the head back to the cylinder 0, properly functions and does not go wrong.	ESC: end, Enter: continue, Minus: start?
 (2.4.2) Operation (C.S.) of bottomol (C.S.) principality intrincipality (C.A.2) Operation (C.S.) of bottomol (C.A.2) operation (C.S.) of the complete (C.S.) operation (wei briteet ad of tabrilyo and to (arton) encart all wheed? ESC: represents, [[ESC]], By pressing this, key, control periods to the EDD test menu, (Figure FDD,1), and redmun entert; represents; [[]], By pressing this key, control proceeds to Paragraph (b.1), and the entert of 10.0.01 no Minus: represents; [[]], By pressing this key, the system presents the test from Paragraph (a, 1), "Specification of Test in Drive" the test from Paragraph (a, 1), "Specification of Test in Drive" the test from Paragraph; (a, 1), "Specification of the ballocity or 80.1.85 of 10.0.00 ment etabrilya (c) Error Processing
Specify the FD drive name to be tested. [10] Hand Press [[0]] to test the Drive A: press [[1]] to test the Drive B. If the FD drive being specified is in the Not ready state, the system displays the following message on the	while the PDD is operating or while the system executes of the program, if an error occurs) the system displays, the command parameter and status, when the error occurs on المناطق من مناطق م مناطق مناطق مناطق مناطق مناطق
lower screen and stops testing the FD drive. 5 1. <u>('Drive not ready.</u> '' by fact, high and international of At the time, by pressing [[ESC]], control exits to the EDD Litest menu, (Figure EDD-1), and starting of the entropy of (starting	Error occurred. Param = XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
(a.2) Specification of Head ため下かっかんがでかりつううたんのかってんかう しかっかけていたつかっかっていたができたが、ためけ、「うみのかっていた」 「Head select ?↓[0]:side:0,715 Side:11]= 図」のようからしました。 のよみのかったがらがらまたがありまたといい、このことをかけ	The this state » by pressing [[ESC]] (a control exits to the FDD test menu (Figure FDD-1). γnico di provedlot entropylagi For details of error messages, see (3). Η τη θηση αραγοί στην στήματα ματαγράφου με στηματισμού στηθο
Specify which head is tested. The structure is the side 1, When testing the side 0, enter? [0] when testing the side 1, Tenter?[1] is a structure of the s	(2.5) Tracking Adjustment (2.5) Tracking Adjustment (2.5.1) Outline This program serves to adjust the tracking of the head in
(a.3) Confirmation of Test Execution 2 (2020-2035 2020) (5) 2 (2) (2) (2) (2) (2) (2) (2) (2) (2) (2	such a manner that data where the system seeks the head from the outermost cylinder 00 to the innermost cylinder 39 is compared with the data where the system seeks the head in the reverse order.
പെട്ടിന് താഷനമായ പ്രമാശം പ്രത്വേഷം പ്രത്വേഷം പ്രത് നത്ത് പ്രത്വേഷം പ്രത്വേഷം പ്രത്വേഷം പ്രത്താണം Confirm whether to execute the test(or/hoft വേഡില്) പാരംപ് heWhen entering.[[1]]]gcontrolsexits to.(a.1)."Specification വേണ് Thit Daiw"(mentioned/in/or1) On the other band when	(2.5.2) Operation When specifying this test, enter the proper data to prompts displayed sequentially as shown in Figure FDD-7.
rentering [[0] by the system starts the test, to us all stady , 'o'' of the dot's north with a product start be delegation re(b). Test all yrove retries to the objection and the delegation of the the test is the dot of the second starts and the delegation of the test of the dot of the second starts and the delegation of the test of test of the test of the test of	ມະບໍ່ໄດ້ເປັນເອົາເປັນເອົາໃຫ້ກາດ (Device) (a) Specification of Device ທີ່ໄດຍ ຊາສາຍຄາຍເປັນເອົາ ເອັດເຫັນ ເປັນໃຫຍ່ໃນ ອາດໂລເລັກ ໃນ ຈະເຫດ ລາວກາງກາງອີງ ອີດແທສະບຸດເດີເຂົ້າ
The system moves the head from the cylinder 0 to cylinder or 4 and returns: the head to the cylinder 0.9 With such an a operation, the system can conserve as signal from the 200	Test drive ? [0: Drive A, 1: Drive B] = 🕅 gote for a for a construction (s.d)
utrack sensor as a pulsed on the system of the system does not accept of While the !FDD dis, operating; the system does not accept [[ESC]] and only displays the following message of the center screen and displays the following message of the center screen and displays the second to the discrete roll "[[Head moving]]"	Specify the FD drive name to be tested. Press [[0]] to test the Drive A; press [[1]] to test the Drive B. If the FD drive being specified is in the Not ready state, the system displays the following message on the fower screen and stops testing the FD drive. "Drive not ready."
	At the time, by pressing [[ESC]], control exits to the FDD test menu (Figure FDD-1).



Data reading. [seek to cyl. from 00]

(b) Test

(b.2.1)

PC-7000A	
At the shall be all the state of the state o	(a.2) Specification of Crysterion Tennor
tem undetes the screen whenever an error occurre and then	9 FAINTEN DIAGNOSTIC
continues the test of	(1) Outline
On the other hand, while the Error Stop is set to "Yes"	A PRINTER DIAGNOSTIC program serves to test the
the system aborts the test when an error occurs. In this	function of a printer adapter (referred to as PRT I/F in the
estate by pressing [[ESC]], control exits to the EDD test	- following discussion) and a printer which is connected to
menu (Figure EDD-1); by pressing [[Speaky the cylinder number to Le material wheely a lot redmun rebuilte
continues to conduct the test	Brinters, which can be connected are only pallarel style
For details of error messages, see the following paragraph	printers
	(1.1) Test Monu Display - Small the mail usition 2 (P. a)
 Constrained and the state of a constrained with the state of the state	When this program is started up the system displays the
	title and the test menu of the PBT as shown in Figure.
(J) Error Messages	
	This dieplay is referred to as the PRT test manu
and a system received a FAUE risignal from the device or	
	Consider a second second second second second
• Cylinder number over	
A cylinder number exceeding the mnermosevalue of the	ekuen esung ees de de enter foi when tesung (no noc 1,
	SHARP Personal computer System Diagnostics Level 370
FUC communication error (FUC failed error)	ν
Handshake error occurred between the 80086 and FDC	alisen in a statistic and a statistic s
(part of SC/9/6).	Data Jul/01/'85
- PDC Interrupt error (Time out error)	
in the specified time period	Printer [1.0]
EDC aquinment check	· · · · · · · · · · · · · · · · · · ·
The system received a FALILT signal from a device or	(0) Sense Printer Status
	(a) redamine enclose stad with his redumine enclose land
noriod while the recelibrate operated	extern ada ment bree at right "Self brainstra dady along the
Invelid command	(3)"Print fable of a gunant of the sector of a sector of the sector of t
• Invang command	
invalid (* 040 a vorit) prast rep (b) alt of a s	Please input command ?
anvand. A Strikke not weather a state of the	on the set of a set of a set of the set
The device being specified ward in the Nothready state	
TO BOARNA BING DECING WAS IN THE REPORT OF ANY	
STACEC error occurred in the ID field if 190 off a size)	
CBC err. in DATA field	(1.2) Selection Test Menu
A CBC error occurred in the DATA field.	Enter the required test number on the test many as follows:
• Record not found	THE POLY AND THE POLY POLY AND A POLY APOLY AND A POLY
The sector specified in the ID field could not be	[[m]] is not the first of the f
redredetected in the track, ab grown if the foll perception	The number being entered is displayed on the screen When
Not Writable (Write protected error): Magaza Bara and	pressing [[4]] the precified diagnostic program is start.
om The system detected write protection.	ed up.
 End of Cylinder (1) supplify supplicition then COR supplicition 	To change the test number delete the number being enter-
Data was tried to be accessed in a disk exceeding the	ed by using [[] and then enter the correct number
maximum sector. Visser Job Wild O	
Missing address mark (Address mark not found) and include the second	(1.3) Exiting Test Menu
 Missing address mark (Address mark not found) and the system could not detect the address mark of the ID 	(1.3) Exiting fest Menu When [[ESC]] is entered before entering [[] 2 1 [] control
Missing address mark (Address mark not found):49-1 -> The system could not detect the address mark of the ID 2-19-4[6]dbuntil*ft%detected an index signal twice/-When the	When [[ESC] المعالم المعالي المعالي المعالي المعالي (2.1) When [[ESC] المعالي الم Whon entering [[[1]], compared biological and a second second second second second second second second second
Missing address mark (Address mark not found) The system could not detect the address mark of the ID Jung field buntip for detected an index signab twice. When the sub system breads data, which could not detect the address	When [[ESC]] الله: المعالية: المعالية: المعالية: المعالية: المحالية: المحالية: المحالية: المحالية: المحالية: ال When entering [[1]], دوسط المحالية: ا محالية: المحالية: محالية: المحالية: محالية: محالية: المحالية: محالية: مح محالية: محالية: مح
Missing address mark (Address mark not found) up 1 2 The system could not detect the address mark of the ID 2019 field buntip foodetected an index signal twicey. When the south system bread data, which could not detect the address mark of the DATA field.	I.3) Exiting Test Menu When [[ESC]] אויייייין [[ESC]] אויייייייין [ESC] Whon entering [[11]], כרייזנין ESC] אויייייי Whon entering [[11]], כרייזנין Ch. לה כטופו אויייייייייייייייייייייייייייייייייי
 Missing address mark (Address mark not found) up 1 in The system could not detect the address mark of the ID 2-119 field huntil http://detected an Index signal twice/ When the sould system reade data, which could not detect the address mark of the DATA field. Overrun (DMA command error) 	When [[ESC]] ¹ Is ¹ entered before entering [[] [] II ¹ I ¹ Control lexits to the DIAG LOADER (1.1), control to the other brand who had who entering [[1]], control to the other brand who had who had be other brand in (1.6), (1.6) (1.4) Others starts the test. Parameters of each test program are entered through kev +
 Missing address mark (Address mark not found) up 1 -> The system could not detect the address mark of the ID 2019 field until in detected an index signal twice? When the system reade data, which could not detect the address mark of the DATA field. Overrun (DMA command error) The device could not read/write data from the system in 	(1.3) Exiting fest Menu When [[ESC]] ¹ is entering [[] [] [] [] [] [] [] [] [] [] [] [] []
 Missing address mark (Address mark not found)^{11,12} The system could not detect the address mark of the ID 2019 field until 10 detected an index signal twicey When the soul system read data, which could not detect the address mark of the DATA field. Overrun (DMA command error) The device could not read/write data from the system in the specified time period. 	(1.3) Exiting fest Menu When [[ESC]] ¹ is entering [[] [] [] [] [] [] [] [] [] [] [] [] []
 Missing address mark (Address mark not found)¹¹ ¹² The system could not detect the address mark of the ID 2019 field until moderected an index signal twice. When the 301 system read data, which could not detect the address mark of the DATA field. 200000 1000 500 1000 Overrun (DMA command error) The device could not read/write data from the system in the specified time period. 200000 1001 Bad command error 	 (1.3) Exiting fest Menu When [[ESC]]¹ is entered before entering [[]] 17; control lexits to the DIAG LOADER 2000, [11]] guinatina and/W heads bash actor and nO. (1.8) in bandmin "avid real" (1.4) Others the test program are entered through key + Parameters of each test program is called, by pressing ex[[ESC]]) control exits to the PRF test menu (figure PRT-ref) by only only only only only only only onl
 Missing address mark (Address mark not found)^{11,12} The system could not detect the address mark of the ID 2010 field until indicated an index signal twice. When the system read data, which could not detect the address mark of the DATA field. Qverrun (DMA command error) The device could not read/write data from the system in the specified time period. Bad command error A command was specified which was not in BIOS 19:03 	(1.3) Exiting fest Menu When [[ESC]] ¹ is entered before entering [[[]]] 17, control lexits to the DIAG LOADER 2000, [[1]] guinatue and W had a busined out of (1.8) in bandmen "evind real (1.4) Others test of the real realized of (10)] guinatue Parameters of each test program are entered through key + [[]]]. When each test program is called, by 'pressing ex[[ESC]])pcontrol exits to the PRT test line and (Figure PRT- ref) the other and and alose bus opsetting private and when each other alose bus opsetting private and build and when each other alose bus opsetting private and build and when each other alose bus opsetting private and build and when each other alose bus opsetting private and build and when each other alose bus opsetting private and build and when each other alose bus opsetting private and build and when each each other alose bus opsetting private and build and when each each other alose bus opsetting private and build and when each each other alose bus opsetting private and build and when each each each each each each each each
 Missing address mark (Address mark not found)^{11,1} The system could not detect the address mark of the ID 2-194 field huntip the detected an index signal twicey. When the source is system readed data, which could not detect the address mark of the DATA field. Overrun (DMA command error) The device could not read/write data from the system in the specified time period. Bad command error A command was specified which was not in BIOS 1973 Compare error (000200110116) 	(1.3) Exiting fest Menu When [[ESC]] Is entered before entering [[] If Treontrol lexits to the DIAG LOADER (1.5), [[1]] entered and hards busil value of 100 (1.6) if bondmom "owind year (1.4) Others the dest of 100 (1.6) if bondmom "owind year (1.4) Others the dest of 100 (1.6) if bondmom "owind year (1.4) Others the dest of 100 (1.6) if bondmom "owind year Parameters of each test program are entered through key + [] If When each test program is called, by pressing ex[[ESO]] pcontrol exits to the PRT test line have (Figure PRT- rol) who only the other has been equation of the whether the sectors represented in the sectors and the other whether the sectors represented in the sectors and the other of the set of the sectors represented in the sectors and the other of the (A.3) the sectors repeated in the sectors and the other of the sectors and the other of the sectors and the other other other other of the sectors and the other
 Missing address mark (Address mark not found)¹¹ The system could not detect the address mark of the ID Prior field huntip in idetected an index signal twice. When the sould system read data, which could not detect the address mark of the DATA field. Overrun (DMA command error) The device could not read/write data from the system in the specified time period. Bad command error Bad command error Compare error Compare error Data being written did not accord with data being read. 	(1.3) Exiting fest Menu When [[ESC]] ¹ is entered before entering [[]] ¹ f, control lexits to the DIAG LOADER 1000, [[1]] gnine and W had what take at a dot of (1.8) if bandinem "evind teet (1.4) Others the test of (1.8) if bandinem "evind teet (1.4) Others test of the test material through key + [[]]]. When each test program are entered through key + [[]]]. When each test program is called, by 'pressing ev[[ESC]])pcontrollexits to the PRF test (menu) (Figure PRT- ref) the other at above base caused model of the static above not base base caused and base base caused at above base (A.8) ligs part of the static above at the static above at a model of the (A.8) ligs part of the static above at the static above at a term of the static above at the static above a
 Missing address mark (Address mark not found)^{11,12} The system could not detect the address mark of the ID 2-110 field until indexected an index signal twice. When the 301 system read data, which could not detect the address mark of the DATA field. 20000 1000 1000 Overrun (DMA command error) The device could not read/write data from the system in the specified time period. 2010000 1000 Bad command error 2010 1000 1000 Bad command error 2010 1000 1000 A command was specified which was not in BIOS 2000 Compare error (20002000 1000) Data being written did not accord with data being read. 	(1.3) Exiting fest Menu When [[ESC]] ¹ is entered before entering [[]] 17, control lexits to the DIAG LOADER 1000, [[1]] guinatus and hand busid onto the OI ((i.s) in boundation "avid reat (1.4) Others the test of the lexits that with the lexit (1.4) Others test is the test program are entered through key + [[]]]. When each test program are entered through key + [[]]]. When each test program is called, by pressing ex[[ESC]]:pcontrol exits to the BRT test fine have (Figure PRT- ref): board on the close busided on the lexit with the lexit of the lexit means of the state above the lexit of the lexit means of the lexit of the lexit of the lexit means of the state above the lexit of the lexit means of the lexit of the lexit means of the state above the lexit of the lexit of the lexit means of the lexit of the state above the lexit of the lexi



(2) Description of Program (2.1) Sense printer status (2.1.1) Outline	a. Test (a.1) Specification of Printing Speed			
Printer status is read and displayed on a screen. When the printer status is changed, the buzzer sound is made, and the new status is displayed.	Select mode [0: VNLQ, 1: Draft] = 🛛			
(2.1.2) Operation When specifying this test, display is started automatically. Therefore, operation is not needed.	 Print speed for test is specified. When [[0]] is entered, a standard speed is set, and if 			
(a.1) Status display	[[1]] is entered, a high speed is set.			
Screen display is given below. In this display, if asterisks (*) are displayed for all statuses, processing is normal and printing may be executed from the host computer.	(a.2) Specification of Both-direction Print			
	Bo-direction ? [0: Yes, 1: No] = 🛛			
Printer status				
Bsy Ack Pe Sel IOe Toe	Whether both-direction print is to be executed or not is			
* * * * * * * *	When [[0]] is entered, both-direction print is executed, and when [[1]] is entered, it is not executed			
The signal is OK if the symbol * is displayed.	However, when print is executed in the CE-700P by using a ribbon, this specification is invalid.			
Figure. PRT-2 Status display screen (Centronics PRT I/F)	(a.3) Confirmation of Test Execution			
The meanings of each status are as follows:				
Bsy: Printer is not busy.	Test start ? $[0: Yes 1: No] = \overline{A}$			
Ack: Response from a printer is available.				
Pe: Paper is set to the printer.				
Sel: Printer is in on-line status.				
IVe: Printer does not contain a mechanical aphormal-	Confirm whether to execute the test or not.			
Toe: Interface of the printer is pormal	When entering [[1]], control exits to (a.1) "Specifica-			
In above cases, asterisks are displayed.	execute the test			
When CE-700P is connected. Sel is not changed.				
	(a.4) Explanation of each mode			
(2.1.3) Abortion and Completion of test	1. Normal: Standard characters of a printer are			
After displaying the printer status, if [[ESC]] or [[printed.			
is entered control exits to the PRT test menu (Figure PRT-	2. Elite: 12 characters are printed per inch.			
1).	3. Proportional: Proportional characters are printed.			
(2.2) Drint character	4. Enlarged: Enlarged characters are printed.			
	5. Emphasized: Emphasized characters are printed.			
Characters are printed in each mode of a printer	7 Superceript: Superceripte are printed			
By this test, whether PRT I/F is normal or not, or the grace	8. Under lined: Underlined characters are printed.			
of the printing may be checked.	9. Italic: Italics are printed.			
For reference, a sample of print is appended. (Figure. PRT-				
6).	(2.2,3) Abortion and Completion of Test			
	Although [[ESC]] and [[F2]] are available while the test			
(2.2.2) Operation	is conducted, a time lag occurs because these key opera-			
when specifying this test, enter the proper data to prompts displayed sequentially as shown in Figure PRT-3.	tions are processed in the state where the executing pro- gram step is completed.			

By pressing [[ESC]], control exits to the PRT test menu (Figure PRT-1).

By pressing [[F2]], the system displays the following

PC-7000A	
$PG \neq 2100$	(a A) Test interruption and termination
message on the lower left screen and aborts the test. 201	(a.4) Test interruption and termination is usigninosof (S)
At the time, by pressing [[F1]], the system continues the	(2.1) Server performance and a [ESC] key in middle of operation forces
test; by pressing [[ESC]], control exits to the PRT test	it to terminate and the control returns to the PRT test
menu (Figure PRT-1).	menu (Fig. PRT-1). And depression of the [[F2]] key
Select mode [(:: VRi Q, I: Erait) * E	brings the following message on the display and the test is
(2.2.4) Error processing	interrupted temporarily.
When an error occurs during test execution, an error	Field of the stopped by user." Notionor() (S.). S
hexadenimal digits at the life bottom of the status	the [[FSC]] key to retring to the BRT stest menu-(Fig
¹⁾ test is interrupted, a standard graduate (10) nenW o	PRT-1).
For example, when printing is to be executed, or when	The following will be displayed upon the termination of the
paper is used up during printing, the following display	test. yalgrib aussi? (1.5)
(e.2) Specification of Both direction Print (e.2)	Screan display is given below. In this displaying it variable (*)
	Depression of the PESC, boons [] [] to key in this state
Printer status error [0x20]	Causes the control monitorial and an anti-area to a control menual rug.
्रिं = toll thack all indications	
From messages are discussed collectively later	(2.3.3) Abortion and Completion of Test
Lifor messages are discussed conectively later.	Although [[ESC]] and [[F2]] are availables while the test
Print bit image	is conducted, a time lag occurs because these key opera-
(2.31)? Outline relevance and an array of the relevance material for	tions are processed in the state where the executing pro-
Bit images of 8 dot or 32 dot are printed as print data.	gram step is completed.
A sample' for printing is appended for reference. (Figure	By pressing [[ESC]], the system display the following
PRT-6). September 2012 and a setter and the setter and the setter of the	Message on the lower left screen and aborts the test.
(a) A set of the second secon second second sec	At the time, by pressing [[F1]], the system continues the
When specifing this test enter the proper date to prompts	_test; by pressing [[ESC]], control exits to the PRT test
displayed sequentially as shown in Figure (PRT4	menu (Figure PRT-1).
	When the test is completed, you not a start on print
a. Test	"Test end."
(a.1) Specification of the Repear Frequency	is displayed. In this status, if [[ESG]] for [[Content of the state of
· · · · · · · · · · · · · · · · · · ·	pressed, Philitest menu (Pigure Philash) is returned.
Loops count? [0: Endless] = 🕅	(2 3 4) From processing and the set of the s
	When an error occurs during test execution an error
tour to their effective provide material in all with	message and the current printer status is displayed in
The frequency of repeating a test is specified in the range of	hexadecimal digits at the left bottom of the screen, and
When [[0]] is entered, processing is repeated, and lossly.	the test is interrupted.
then [[0]] is entered, processing is repeated, enteressiv.	For example, when an interface of a printer is abhorhal
(a.2) Specification of a Print Density Science (a.2)	during printing, the following display appears:
	- (डा.डि) - संग्रमालि बार्ब के महिल्लेक लीहर
Density 2 [0, 9 bet 1,22 det $= M$	Printer status error. [0x01] - catcher e in geomolyable active
	<u>. Decompany unang of Defent of any lounos barans</u>
bolining and shade and shadehood and the shadehood and shade a second state of the shadehood and the s	 Error messages are discussed collectively later.
When [[0]] is entered, processing is repeated endlessly	
a second a second s	(2.4.1) Out line (2.2.2)
(a.3) Confirmation of Test Execution (2010) (a.3) Confirmation of Test Execution	(2.4.1) Uut line A list of informationaDatharabasarahabitational state state
_ հուսիսը, շրջանները է հետությունը է է հետությունը է 1811	A first of international characters is printed. (5:00) signal
e an	of the printing may be checked.
lest start / [U: Yes, 1: No] = ⊠	(2:4.2) upperationage el serre to alumas a apaselar no l
	When specifying this test, enter the proper date to prompt
Confirm whether to execute the test or not.	as shown in Figure PRT-5.
When entering [[1]], control exits to (a.1). "Specification	(2.2.2) Greension
of Repeat Frequency". When entering [[0]], the system	(a.1) Confirmation of Test Execution, How we have been and
execute the test in a close behave in the test in the second s	<pre>interview in the two and the global stapped Orbitist, interview intervi</pre>
(*-T (49 or m) ?)	Test start ? [0: Yes, 1: No] = 🕅

grisselloi officer, the syntem deployed if galaxie ye



- Confirm whether to execute the test or not.
- When entering the system execute the test.

(2.4.3) Abortion and Completion of Test

Although [[ESC]] and [[F2]] are available while the test is conducted, a time lag occurs because these key operations are processed in the state where the executing program step is completed.

By pressing [[ESC]], control exits to the PRT test menu (Figure PRT-1).

By pressing [[F2]], the system displays the following message on the lower left screen and aborts the test.

"Test stopped by user."

At the time, by pressing [[F1]], the system continues the test; by pressing [[ESC]], control exits to the PRT test menu (Figure PRT-1) is returned.

When the test is completed:

"Test end"

is displayed. In this status, if [[ESC]] or [[]] is pressed, the PRT test menu (Fig. PRT-1) is returned.

(2.4.4) Error processing

When an error occurs during test execution, an error message and the current printer status are displayed in hexadecimal digits at the left bottom of the screen, and the test is interrupted. For example, when an error occurs in internal memory of the printer during printing, the following display appears:

Printer status error. [0x08]

Error messages are discussed collectively later.

(3) Error messages

All errors are represented by the statuses.

A status consists of 8 bit, and corresponds to the display contents of 2-1 "Sense printer status" as given below.

Bit 7 (0 x 80): Bsy 6 (0 x 40): Ack 5 (0 x 20): Pe 4 (0 x 10): Sel 3 (0 x 08): IOe 2 (0 x 04): ---1 (0 x 02): ---0 (0 x 01): Toe

For the meanings of each status, see 2-1 Sense printer status.

10 COLOR CRT ADAPTER DIAGNOSTIC

(1) Outline

A COLOR CRT ADAPTER DIAGNOSTIC program serves to test the function of the Color CRT display (referred to as CRT in the following discussion) of this computer.

(1.1) Color CRT mode selection

When this program is specified, the title is displayed, and specifying color CRT mode is required.

Please select the color mode. $[0:8 \text{ colors}, 1: 16 \text{ colors}] = \emptyset$

If input error occurs, correct color display does not appear. This specification is required only when a program is started.

(1.2) Test Menu Display

After specifying color CRT mode, the system displays the title and the CRT test menu as shown in Figure CRT-1. This display is referred to as the CRT test menu.

SHARP Personal Computer System Diagnostics Level.3

Date Oct/01/'86

Color CRT Adapter [1.1]

- (0) CRT size test
- (1) CRT focus check
- (2) CRT Color bar test

Please input command ?

Fig. CRT-1 CRT test menu

(1.3) Selection of Test Menu

Enter the required test number on the test menu as follows: [[0]] to [[2]] (1 digit) + [[]] (When specifying [[0]], it is possible to press [[]] only.)

The number being entered is displayed on the screen. When pressing [[]], the specified diagnostics program is started up.

To change the test number, delete the number being entered by using [[] and then enter the correct number.

(1.4) Exiting Test Menu

By pressing [[ESC]] followed by [[]; control exits to the DIAG LOADER.



(a) Test

Screen sizes, distortions or center slipping are adjusted or checked on the size test screen.

(2.1.3) Abortion of Test

While executing a test, if pressing [[ESC]] control exits to the MONO test menu (Figure MONO-1).

(2.2) CRT focus check

(2.2.1) Summary

Display characters on CRT display are checked.

(2.2.2) Operation

As soon as this test is specified, test processing is started. Adjustment for focus check screen (Figure MONO-3) is displayed.

(a) Test

CRT display characters are adjusted or checked on the "adjustment for focus check" screen.

(2.2.3) Abortion of Test

While executing a test, if pressing control exits to [[ESC]] the MONO test menu (Figure MONO-1).

(2.3) CRT attribute check

(2.3.1) Outline

Attribute patern.

(2.3.2) Operation

Operation is not needed. As soon as this test is specified, test processing is started.

(a) Tests

(a-1) CRT attribute check-1

As the attribute patterns are displayed in the blink enabled state as in Fig. MONO-4, it permits visual check.

(a-2) Test interruption and termination

Depression of the [F2] key upon termination of the test causes it to advance to the CRT attribute check-2. If the [ESC] key is depressed, the control returns to the MONO test menu (Fig. MONO-1).

(a-3) CRT attribute check-2

As the attribute patterns are displayed in the background intensity enabled state as in Fig. MONO-5, it permits visual check.

(a-4) Test interruption and termination

Depression of the [ESC] or [[]] key after the termination of the test, the control returns to the MONO test menu (Fig. MONO-1).

PC-7000A	•
	1
Z MODEM CARD DIAGNOSTIC	a) rest ercen sizes, distortions or center slipping are adjusted or
(1) General	hecked on the size test screen.
The modem card diagnostics are the prog PC-7000 modem interface unit, which will hereinafter.	eram used to test functions of the gram used to test functions of the distance of the simply referred to MDM) Lisin control of a ONOM of CMDM) Lisin control of ONOM of
(1-1) Test menu display	2.2) CRT teeus cheek 2.2.1) Summary usplay churacters on CRT display are cheeked.
When the program is started, the MDM to caption (Fig.MDM-1). This display mess	2.2.2) Operation "unem test MCM" beyands ai unem tat ks soon as this test is specified, test processing is started. Adjustment for focus check screen (Figure MONO-3) is
SHARP Personal Computer System Diagnost	uspiaysa.
Data Das /01/195	589T (s
Modem Card [1.0]	RT display characters are adjusted or checked on the adjustment for focus check'' scinen
PJ	er WOWG eet reter one bellWGrt. 7.3) OHT studute check 7.3) Other 6.0500 6.0500 6.0500 1ease input command ? M
	5.8.2) Operation See to the contransferior of a sub-contransferior See to the contransferior of a sub-contransferior theory
Fig.MDM-1 MDM test menu	
<pre>(1-2) Test menu choice Enter the test item number in the follo</pre>	-i stêt, tête boreek) > Bo avat wwepatter o we degeayawe oothe bool endere ne wind ter Stête 6, €parmer wordefeloo tranner wo rd
Enter [0] followed by a carrier return	 2) feeting top an restriction a) feeting top an restriction of the test
Only a carrier return may be used.	anas it to advance to the QRT . Debute directo2, E the ESCI I key is departed', the council reliant to the MCEIO
The number entered is displayed and the	<pre>test commences with the carrier</pre>
To change the number, delete the number number again.	: ・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・
(1-3) Cancellation of choice	-6) Test interruption and termination
The control returns to the diagnostic 3 a carrier return depression.	on of i et station of the cost

(2) Test item description

- (2-1) Modem loopback test
- (2-1-1) General

The modem interface hardware is tested with the test data in the loopback mode.

(2-1-2) Operational procedure

As the control comes asking for the entry of baud rate (Fig.MDM-2) after specifying the test, enter either [0] or [1].

- (a) Test
- 1) After the baud rate has been set in the SIO LSI (8250), the command "AT Z" is executed to initialize and set the baud rate in the modem LSI (8051).
- 2) After the execution of "AT S13=16", "AT S16-1", and "AT DO"; it goes into the loopback mode (data mode).

Now loop back mode Connect !

- 3) Test data, 0 thru 7F, are sent and received for verification.
- 4) When "+++" is executed, the control returns to the command entry mode, and, finally, the modem is initialized after execution of "AT Z".
- (b) Termination

When the test has been complete, the following message is displayed.

ESC:end, Enter:start ?

Depression of the [ESC] key causes the control to return to the MDM test menu (Fig.MDM-1). Depression of the carrier return causes the control to return to the entry of the baud rate.

(3-1) S10 (8250) related	error JESI MORAGODE MODON (1-%)
The error message is di For the error messages réferito ¹ thé ³ descriptio	isplayed under the left corner of the screenuog (1-1-2) described below are identical to those of the 8250, and which have a solve the second and the second and the second and the second
SD timeout:	
Indicates that the resp predetermined time. repla (Pig.MDM-2) etc	onse against the send data ^w as ^o not detected ^o Within ¹ The As the control comes asking for the entry of baud re
RD timeout:	specifying the test, enter either [0] or [1].
Indicates the receive of within the predetermine	lata interrupt against the send data was not detected ed time.
250), Crammana and Antonia Stranger Indicatès Teharethe tràn	l) After the baud rate has been set in the SIO LSI (8 After the baud rate has been set in the SIO LSI (8
predetermined time.	2) After the execution of "AT S13-16", "AT S16-1", and
Overrun error: This error is establish the receive data-read i	, (abom s335) abom dor to or and hed when the SIO received more than four characters as is-delayed by the CPU. In other words, more characters
Overrun error: This error is establish the receive data-read i are tried to send when	, (abom sight) abom dor to be a ned when the SIO received more than four characters as is-delayed by the CPU. In other words, more characters the Rx buffer is fully occupied a dool wow t doornoo
Overrun error: This error is establish - the receive data-read i are tried to send when Framing error: - Indicates that-"0"-is f	. (abom 5335) abom dor to only and hed when the SIO received more than four characters as is-delayed by the CPU. In other words; more characters the Rx buffer is fully occupied dool wow i doornod found in the stop bit.
Overrun error: This error is establish the receive data-read i are tried to send when Framing error: Tudicates that-"0"-is i Parity error: Indicates detection of	. (abom sight) abom dor to only and hed when the SIO received more than four characters as is-delayed by the CPU. In other words; more characters the Rx buffer is fully occupied a doal wow i doannob found in the stop bit.
 Overrun error: This error is establish the receive data-read is are tried to send when Framing error: Indicates that-"0"-is if Parity error; noiteofil: Indicates detection of the send vise biasmoot (3-2) Model LSI (8051) res 	. (abom slab) abom lar toroid and hed when the SIO received more than four characters as is-delayed by the CPU. In other words; more characters the Rx buffer is fully occupied a load qool wow i the ano found in the stop bit. (A to a load of the load of the load of the load of the a parity error. and of another load of the load of the load of the slated of the load of the load of the load of the slated of the load of the load of the load of the slated of the load of the load of the load of the slated of the load of the load of the load of the slated of the load of the load of the load of the slated of the load of the slated of the load
<pre>Overrun error: This error is establish the receive data-read i are tried to send when Framing error: Thdicates that-"0"-is f Parity error: Holtspirit Indicates detection of (3-2) Model LSI (8051) res Indicates that there wa message displayed under</pre>	. (abom sisb) abom dor to only and hed when the SIO received more than four characters as is-delayed by the CPU. In other words; more characters the Rx buffer is fully occupied doed wow i doed wow found in the stop bit. nov following back here and all out of the local for a parity error. which annuals in the other and all out of the local of all of annuals in the off, all out of the local off, will be all of annuals in the local off, will be all out of the local as no response against the command with the if of the screen.
 Overrun error: This error is establish the receive data-read is are tried to send when Framing error: Tudicates that-"0"-is if Parity error; noiteoritic Indicates detection of (3-2) Model LSI (8051) refuse Indicates that there was message displayed under the second se	. (abom sizb) abom dor to only and hed when the SIO received more than four characters as is-delayed by the CPU. In other words; more characters the Rx buffer is fully occupied and you wow i boom of wow found in the stop bit. found in the stop bit. found in the stop bit. for a parity error. a parity error. boom of a content of the state of a content with the state of the screen. as no response against the command with the state of the screen. as a gain of the screen. as a gain of the screen.
Overrun error: This error is establish the receive data-read i are tried to send when Framing error: Thdicates that-"0"-is i Parity error: noiteoritic Indicates detection of this , obom vitue busereoo (3-2) Model LSI (8051) reaction Indicates that there was message displayed under the the there was the the the the the the the the the the	 (abom size) about some your operation. (abom size) about some your operation. (bound in the stop bit. (cound in the stop bit.
Overrun error: This error is establish the receive data-read is are tried to send when Framing error: Tudicates that-"0"-is is Parity error: Holtspills Indicates detection of this , obom ville buseness (3-2) Model LSI (8051) re- Indicates that there was message displayed under the second se	<pre>(abom stab) abom story and and hed when the SIO received more than four characters as is-delayed by the CPU. In other words, more characters the Rx buffer is fully occupied more to work i the Rx buffer is fully occupied more back more found in the stop bit. (*) Test date: 0 the date of a contract received for a parity error. a parity error. a parity error. a parity error. a parity of the second of the command with the stopies i the right of the screen. as no response against the command with the the stopies of the right of the screen. as many pair of</pre>
Overrun error: This error is establish the receive data-read i are tried to send when Framing error: This error: This error: This error: Parity error: Holisofilie Indicates detection of this obom vilue bhasmood (3-2) Model LSI (8051) read Indicates that there was message displayed under the boysigals al egos	<pre>(abom stab) abom startgord and hed when the SIO received more than four characters as is-delayed by the CPU. In other words; more characters the Rx buffer is fully occupied has done of the Rx buffer is fully occupied has done of the Rx buffer is fully occupied has done of the restor bit. found in the stop bit. is very the two are shown of the start a parity error. all of annutar lotters on shown of the start would be slaged by start both of the screen. as no response against the command with the stall of the screen. as many of the screen as many o</pre>

Indicates that the send data do not match the received data.

13 EXPANTION UNIT DIAGNOSTIC

(1) General

The expansion unit diagnostics are the program used to test functions of this computer expansion units. For the loopback test is conducted with this diagnostic program, it needs the expansion unit option slot check board in the slot.

(1-1) Test menu display

When the program is started, the expansion unit test menu is displayed along with the caption (Fig.EXP-1). This display message is called "Expansion unit test menu".

SHARP Personal Computer System Diagnostics Level.3

Date Oct/21/'85

Expansion unit [1.0]

- (0) Test all
- (1) Test clock line
- (2) Test oscillator line
- (3) Test external t/c line
- (4) Test IREQ, DREQ line

Please input command ? 🛛

7100

*** WARNING ***

The dummy card specially designed must be used as this diagnostic program is designed for loopback test.

Fig.EXP-1 Exp.unit test menu

(1-2) Test menu choice

Enter the desired test item number in the following manner:

Single digit of [0] thru [4] followed by a carrier return.

Only a carrier return may be entered for the test item 0.

The number entered is displayed and the test commences with the carrier return.

PC-7000A PC-7100-

To change the number, delete the number with the BACKSPACE key and enter the number again.
Lorence) (1)
(1-3) Cancellation of choice
lo anoidenuit table of beau margers off our coldeougabb thru notanages off The control returns to the diagnostic loader, if [ESC], key, is pushed prior to marging for the second off the location of the
(1-4) Others
Parameters for the test must be done with a ten key keyboard key and the $i-1$ carrier return key.
gnoThebsontrolbwill;returnato:Fig.EXPalswith)depressionsofithetdESSjakeynwhen theitestsprogramaisaon;gnesem (sigate sint . (1-320,g13) nolless add difw
(2) Test item description
Side Perman Camputer Svoles Ungratice Levels'
(2-1-1) General
All test items are executed one after another with test results on display for each test item.
1^{4} (a - 1 - 5.5) (A)
(2-1-2) Operational procedure static path 3907 (1)
Nothing is required as the tests start automatically.
(a) Test
(a-1) Test contents and results
When this test item is started, Fig.EXP-2 comes displayed.
Test all The construction will and the beaution to the basis which is been been month off
Clock line OK !!
Oscillator line Failed !! External t/c line line Failed !!
IREQ, DREQ line OK !! aptends upon dapt (N-()
Pater the desired tert (ter augure is the frilewing manaers
Fig.EXP-2 Test all screen
(a-2) Termination marging a set in a set in the set of the set of the second second set of the second s
If the test has been successful, "OK !!" is displayed to the right of the
respective test item. Teliman and fligh approximent land out bus poyalgalb at bourston telimit off If not, Failed !!" is displayed.

7000A

When all tests have been successful altogether, the following will be displayed. Expansion unit OK !! Test end. If there is any error, the following will be displayed. Expansion unit Failed !! Test end. The following prompt appears when the tests has been complete, regardless whether it be successful or not. ESC:end, Enter:start ? Depression of the [ESC] key causes the control to return to the expansion unit test menu (Fig.EXP-1). Depression of the carrier return causes the control to return to "(a-1) Test contents and results" and then the tests are started all over again. (2-2) Test clock line (2-2-1) General The clock line of the expansion unit is tested. It is possible to assign test repeat and error stop modes for observing the waveform at the time of a repair or adjustment. (2-2-2) Operational procedure When this test item is specified, the prompts (Fig.EXP-3) are displayed one at a time, to which you must answer with the choice.

When all tests have been successful altogether, the following will best (a) .beyslastb (a-1) Test repeat choice Expansion unit 14. Loops count ? [0:Endless] = MM - -Test Cild. Number of tests to be repeated must be specified with a number of 1 to 999. Entry of [0] will continue the test indefinitely. If there is any curve, the following will be displayed. (a-2) Error stop choice - —]4 AbelleMedece goéogsexi -Error stop ? [0:Yes, 1: No] =X -------رور محمد الجنور واحد الملاب على 1977 مارة علية منه العلي المحم العلي 1997 من 1997 من 1997 من 1997 من الجمع الس It must be specified whether the test is to be interrupted or not when an erroraissencountered inse middlesof the test-arsagas tempt garasian and whether it he successful or not. (a-3) Start #SC:end, Entertscirt Test start ? [0:Yes, 1: No] = presented of the [REC] her a new the control to the expansion Start of the test must be acknowledged. a Entry of [1] causes the control to return to (a-1) for an entry again. Entry of [0] starts the test, on a and all and but "atlaner bus almednos (a-4) Termination (2-2) Tert Clock Jide Depression of the [ESC] key terminates the test unconditionally, and the control returns to the expansion unit test menu (Fig.EXP-1). Depression of the [F2] key interrupts the test with the following message on it is possible to assign test report and error sicp modes for observable streadewides to disper o lo emil only is a divertant. "Test stopped by user." (2-2-2) Operations | procedure If the [F1] key is pressed while the above message is on, the test resumes. If the [ESC] key is pressed, the control returns to the expansion unit test menu (Fig.EXP-1).

at a time, to which you must answer wich the choice. . .(1-121.glf) un



The test will terminate, unless the repeated test is assigned at (a-1).

_ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ Test end. ESC:end, Enter:start ? Depression of the [ESC] or [CR] key causes the control to return to the expansion unit test menu (Fig.EXP-1). (2-2-3) Error processing Every time the test has been completed, the message "OK !!" is displayed if the test has been successful. If an error has been involved, "Failed !!" is displayed. If the error stop choice was specified "No", the test will continue even if an error was encountered. If "Yes" was specified, the test will then be terminated and the control returns to (a-4) "Termination". (2-3) Test oscillator line (2-3-1) General The oscillator line of the expansion unit is tested. It is possible to assign test repeat and error stop modes for observing the waveform at the time of a repair or adjustment. (2-3-2) Operational procedure When this test item is specified, the prompts (Fig.EXP-4) are displayed one at a time, to which you must answer with the choice. (a) Test (a-1) Test repeat choice - - - - - - - - - - - - -Loops count ? [0:Endless] = 🕅 _ _ _ _ _ _ _ _ _ _ _ _ _ Number of tests to be repeated must be specified with a number of 1 to 999.

Entry of [0] will continue the test indefinitely.

Lest end. Error stop ? [0:Yes, 1: No] =М It must be specified whether the test is to be interrupted or not when an . (I-WH.gt%) unon dest thun noisnague (a-3) Start (2-2-3) Error processing li beyaig Testaistart XD [O:Yespal: No], bele Maron meet and taet out outd yrova the test has been successful. If an error has been involved, "Pailed !!" is Jayslasib. as Start of the test must, be acknowledged toars as antodo gota torre and il Entry of [1] causes the control to return to (a-1), for an entry, again. Entry of [0] starts the test i noit liv dest out to the specification "us?" 11 ."notizalmad"4 (à s) et savoiet (a-4) Termination anti passittas vasi (2-3) Depression of the [ESC] key terminates the test unconditionally and the control returns to the expansion unit test menu (Fig.EXP-1). (BIDENO (1-2-3) Depression of the [F2] key interrupts the test with the following message on display. libedeod at dinn maismears edd is eads todailiana em? alt gaivreech tol seles quie torns has included and subject of sides at it "Test stopped by user." .Onombushos is theque a bo ambi and is meadeway If the [F1] key is pressed while the above message is on, the test resumes) If the [ESC] key is pressed, the control returns to the expansion unit test and hows (Fig. FXP-1) (s-Will get a stanor of the behalos is at cost rest att could 3338 4N (a...i) Cent repeat choice Test end. ESC:end, Enter:start ? Locas count 1 | 0:Endless] = ET Depression of the [ESC] or [CR] key causes the control to return to the expansion unit test menu (Fig.EXP-1). Number of teats to be reported much be specified with a number of 1 to 999. Entry of [0] will continue the test indefinitely.

Every time the test has been completed, the message "OK !!" is displayed if the test has been successful. If an error has been involved, "Failed !!" is displayed.
```
If the error stop choice was specified "No", the test will continue even if
  an error was encountered.
  If "Yes" was specified, the test will then be terminated and the control
  returns to (a-4) "Termination".
(2-4) Test external t/c line
(2-4-1) General
  The external t/c line of the expansion unit is tested.
  It is possible to assign test repeat and error stop modes for observing the
  waveform at the time of a repair or adjustment.
(2-4-2) Operational procedure
  When this test item is specified, the prompts (Fig.EXP-5) are displayed one
  at a time, to which you must answer with the choice.
(a) Test
(a-1) Test repeat choice
               Loops count ? [ 0:Endless ] = XXX
  Number of tests to be repeated must be specified with a number of 1 to 999.
  Entry of [0] will continue the test indefinitely.
(a-2) Error stop choice
 _____
       Error stop ? [0:Yes, 1: No] = 🛛
   It must be specified whether the test is to be interrupted or not when an
  error is encountered in a middle of the test.
(a-3) Start
 Test start ? [0:Yes, 1: No] = 🛛
                    Start of the test must be acknowledged.
  Entry of [1] causes the control to return to (a-1) for an entry again.
  Entry of [0] starts the test.
```

7000A

C-7100 If the error stap choice was specified "No", the test will notation (a-4). an error was encountered. Depression of the [ESC] key terminates the test unconditionally and thell control returns to the expansion unit test menu (Fig.EXP-(),s) or caruter Depression of the [F2] key interrupts the test with the following message on (2-4) Test extornel t/c line display. (2-4-1) General "Test stopped by user." If the [F1] key is pressed while the above message is on, the test resumes. ad If the [ESC] keys is pressed the control returns to the expansion unit test waveform at the time of a repair or adjustment. menu (Fig.EXP-1). The test will terminate, unless the repeated test is assigned at $(a^{-1})^{(a-1)}$ at a time, to which you must answer with the choice. Test end. ESC:end, Enter:start ? ປະສຽ (s) (a-1) Test repeat choice Depression of the [ESC] or [CR] key causes the control to return to the expansion unit test menu (Fig.EXP-1). Loopu count ? [0:Endless] = [E] (2-4-3) Error processing Every time the test has been completed, the message "OK !!" is displayed if the test has been successful. If an error has been involved, Failed !!" is displayed. displayed. If the error stop choice was specified "No", the test will continue even if an error was encountered. " If "Yes" was specified, the test will then be terminated and the control returns to (a-4) "Termination". 🖉 - [oN :1 .207:0] ? gote rourd -----(2-5) Test IREQ, DREQ line (2-5-1) deneral to be specific the test is to be interrupted or since the test is to be specific deneral error is encountered in a middle of the test. The external IREQ and DREQ lines of the expansion unit are tested. It is possible to assign test repeat and error stop modes for observing the waveform at the time of a repair or adjustment. Testing order is as follows, "IREQ2, IREQ3, IREQ4, IREQ5, IREQ6, IREQ7, ___DREQ3, DREQ1". Start of the test must be acknowledged. Start of the test must be acknowledged. arubasorg fanoitarego (2-2-2) Eatry of [1] causes the control to return to (a-1) for an entry again. When this test item is specified, the prompts (Fig. EXP-6) are displayed one at a time, to which you must answer with the choice.

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7000/

(a) Test (a-1) Test repeat choice - - - - - - - -Loops count ? [0:Endless] = MM- - - - -Number of tests to be repeated must be specified with a number of 1 to 999. Entry of [0] will continue the test indefinitely. (a-2) Error stop choice Error stop ? [0:Yes, 1: No] = 🕅 It must be specified whether the test is to be interrupted or not when an error is encountered in a middle of the test. (a-3) Start Test start ? [0:Yes, 1: No] = _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ . Start of the test must be acknowledged. Entry of [1] causes the control to return to (a-1) for an entry again. Entry of [0] starts the test. (a-4) Termination Depression of the [ESC] key terminates the test unconditionally and the control returns to the expansion unit test menu (Fig.EXP-1). Depression of the [F2] key interrupts the test with the following message on display. "Test stopped by user."

7000 A

If the [F1] key is pressed while the above message is on, the test resumes. If the [ESC] key is pressed, the control returns to the expansion unit test menu (Fig.EXP-1).

7000A PC-7000A PC-7100 The test will terminate, unless the repeated test is assigned at (a-1) $_{
m osT}$ (s) Test end. ESC:end, Enter:start ? _Loops_count_? [O:Endioss] = 🔤 Depression of the [ESC] or [CR] key causes the control to return to the · expansion unitimest mente (Figlexpel) d team betseger ad of atest in redmun Entry of [0] will continue the test indefinitely. (2-5-3) Error processing (a-2) Error stop choice Every time the test has been completed, the message "OK !!" is displayed if " The test has been successful. - If an error has been involved, "Failed -! !" -is displayed. Error stop ? [0:Yes, 1: No] -観. When an error is involved, the signal name will be displayed next to the warning message. For an instance, effor in IREQ2 and DREQ3 will be displayed as follows: 11 error is encountered in a middle of the test. 3265 R (Kess) IREQ2 DREQ3 Failed !! 前: → 〔5例 :↓ ,→→2:01 字 (Haida Baab) If the error stop choice was specified "No", the test will continue even if an error was encountered. If "Yes" was specified, the test will then be terminated and the control returns@fov(a=4) #"Termination"; auties of fortuon out apasse [1] to you a サイル And Artestal OF A Laborat noliseinter (Ama) represented of the [ERG] key term inter the test whous house his the the . (1-4X2.917) more rest fine colerages one (Mig. MAR-1). Repression of the [12] key interrupts the test with the following neergo on ."ພະເລີນ If the [F] key is pressed white the above message is on. the rest rescuesis the [D20] hay is pressed, the control returns to the expansion while test .(I-9723.glH) unem



14 HARD DISK DIAGNOSTIC

(1) General

The Hard Disk diagnostics are the program used to test functions of this computer hard disk. The drive units, internal Hard Disk for PC7100 and in the expansion box are tested.

(1-1) Test menu display

When the program is started, the hard disk test menu is displayed along with the caption (Fig.DSK-1). This display message is called "DSK test menu".

SHARP Personal Computer System Diagnostics Level.3 Date Oct/01/'86 Internal hard disk drive [1.7] (0) Read drive type (1) Write, read & compare (2) Read only (3) Hard initializer (4) Bad initializer (5) Random seek (6) Ascii/Hexa dump (7) Dump and Patch (8) Check Sector buffer & Disk controller (9) Error table display Please input command ? Fig.DSK-1 DSK test menu If two hard disk drives are connected, choice of the drive to be tested will be prompted in the display before the test menu is displayed. Depression of the [0] + [CR] keys or mere depression of the [CR]key starts to test the internal drive.

Depression of the [1] + [CR] keys starts to test the external drive. Depression of the [ESC] key before the depression of the [CR] key causes the control to return to the DIAG LOADER program. PC-7100 HARD-DISK DIAGNDRAM M SHARP Personal Computer System Diagnostics Level.3 (1) General Date Oct/01/'86 The Hard Disk diagnostics are the The Part disk drive (a) aver disk drive of this computer hard disk. The drive wits sinternal drive, 1: External drive to bor are .bojeoj (1-1) Test menu display Fig.DSK-0 Test drive select mode When the program is started, the hard dick test menu is displayed along with the caption (Fig. DSK-1). This display message is calledion (Fig. DSK-1). - -Enter-the-desired-test item-number in-the-following-manner:----Only a carrier return may be enteredeforbtheltestsitema0a)al The number entered is displayed and the test commences with the carrier (0) Road drive type return. To change the number, delete thegnumberbwith, the BACKSPACE key and enter the number again. vino been (1) (3) Hard initializer (1-3) Cancellation of choice (4) Red initializer The control returns to the diagnostic loader if [ESC] key is pushed prior to a carrier return depression. In the cases of 21 Hard disk system, will be return to the test drive select mode (Fig. DSK-0) (8) Gleck Sector buffer & Disk controller (1-4) Others (9) Error table display Parameters for the test must be done with a ten key keyboard key and the carrier return: keyammoo juqni basala The control will return to Fig.DSK-1 with depression of the [ESC] key when the test program is on. (2) Test item description DSK fest menu J-MRG. BIR (2-1) Read drive type If two hard disk drives are connected, choice of the drive to be tested (2-1-1) General qaib at unem test end saplet valgabb and at Batquevy of Illy Depression of the [0] + [CR] keys or mere depression of the [CR]This test item checks the hard disk drive and inferrogates the disk type? Depression of the [1] + [OR] keys starts to test the external (2-1-2) Operational procedure .ovith Depression of the [ESG] key before the depression of the [CR] key When this test itemsis chosen, Oit Schecks if the disk drive its ready source (Fig.DSK-2). The disk capacity, cylinder numbers, head numbers, and cylinder numbers are displayed.

-70002

With this program, the hard disk drive information are obtained.

Depression of the [ESC] or [CR] key causes the control to return to th DSK test menu (Fig.DSK-1).

(2-2) Write, read, & compare

(2-2-1) General

After writing the test data on the hard disk, the data are then read and compared if the write and read have been conducted successfully. Incremental pattern of 00 thru FF is used for the test data when the test count is "0000", then four bytes of "EB6DB6DB" are used thereafter.

All cylinders from the cylinder 000 thru 613 can be tested. The test required time may vary depending on the type of the drive unit. It takes about 4 minutes and 50 seconds (sector count at 128) to test all areas of the D3116.

Pay attention before the execution of this task, as it destructs an entire contents of the hard disk once the test is done.

(2-2-2) Operational procedure

Normally, the test will be carried out for cylinder range 0 thru 613, sector count at 128, single retrial, and without an error stop (1: No).

(a) Test

(a-1) Cylinder test range

- - - - - - - - -

Cylinder scope ?

[000 -- 613] = 🕅 🕅 - 🕅

The cylinder testing range must be specified. The test takes place from the beginning of the first specified cylinder number to the end of the second specified cylinder number.

(a-2) Sector count

Sector count ? [001 -- 128] = 🕅

Enter the sector testing range to be tested with a single command. Depression of the [0] key with the [CR] or mere depression of the [CR] key will assume the maximum range which is "128".

-7000PC-7100 With this program, the hard disk drive information are obtainediated (E-a) - -Depression of-the-[ESG]-or [CN]-key-causes the control to-return to-th BSH test menu (Fig.DSK-1). Retry count ? [0 -- 4] = [X](2-2) Write, read, & compare The number of retrials must be specified. (2-2-1) General When an error has been encountered during the read/write test, retrials will benconducteddasemanyutimestasdspecifiedehere: stab test and gnithry rethA compared if the write and read have been conducted successfully. (a-4) Error stop choiceses of tor less as a for the tesses of count is "0000", then four bytes of "EEGPEGBE" are used thereafter. All cylinders from the cylinder 000 torig [10] tes, finders from the cylinder and the cylin The test required time may vary depending on the type of the drive unit. It takes about 4 minutes and 50 seconds (sector count at 128) to test all areas of the D3116. It must be specified whether the test is to be interrupted or not when an Serior is encountered in a middle of theoread/writeltestalad motimatic val actions of the hard dirk once the test is done. (a-5) Start wrubeboag Lanoiter (1-R-R) Mormally, the test will be carried oug folly inder a sector at 128, single retrial, and without an error stop (1: No). 3401 (S) Start of the test must be acknowledged. Entry of [1] causes the control to return to (a-1) for an entry againg a trans Entry of [0] starts the test with Fig.DSK-3 on display. ار بر چر وست ویت است. محمد مطلب معنی الت الت الدور میشود میش الد ا Test pass count, binary address, and physical address [CCCHHSS] are displayed on the lower left side of the screen with the test to the right of - 1777 - 2891 - 1713 --- 1000 1 it. A_hexadecimal_number is used to represent_the_pass count and the binary address, and an octal number is used to represent the physical address. The oglinder testing range must be specified. The test takes place fore the beginning of the first specified cylinder. number to the end of the second specified cyland r=number. Pass N Binary adrs [0x] = XXXX Test mode: Write (L-2) Sector count CCC.HH.SS Sector count ? On the right side of the screen is displayed, the number of errors by error $\frac{1}{2} = \frac{1}{2} \frac{3}{3} = \frac{1}{2} \frac{3}{3} \frac{1}{2} \frac{1}{2} \frac{3}{3} \frac{1}{2} \frac{1}$

Mater the sector testing range to be tested with a single counsud. Deprendion of the [0] key with the [CR] or mere depression of the [CR] key will assume the merimum range which is "128". Depression of the [ESC] key causes the control to return to the DSK test menu (Fig.DSK-1). Depression of the [F2] key interrupts the test with the following message on display.

"Test stopped by user."

If the [F1] key is pressed while the above message is on, the test resumes. If the [ESC] key is pressed, the control returns to the DSK test menu (Fig.DSK-1).

(b) Error processing

(b-1) Read/write related error

If an error occurred before the seek operation after the test started, the test will be terminated irrespective of (a-4) "Error stop choice". Depression of the [ESC] key causes the control to return to the DSK test menu (Fig.DSK-1).

When an error was met during the read/write test, the command parameter and the status of the error are displayed (Fig.DSK-11) and the error count displayed to the right is then incremented. If the error stop choice is "No", the test continues after revising the display every time an error occurred. (In this case, only the currently encountered error is displayed.) If the error stop choice is "Yes", the test is interrupted immediately upon occurrence of an error. In this case, the test can be resumed with the depression of the [CR] key. If the [ESC] key is pressed, the control then returns to the DSK test menu (Fig.DSK-1).

If printer is connected, command parameter of the error will be printed.

See the error message list which is attached to this text.

(b-2) Compare related error

When an unmatch is encountered in verifying the test data, the location and the unmatch data are displayed.

Compare error Adrs [0x] = 0000Data [0x] = 6DEB - 00000

If the error stop choice is "No", the test continues after revising the display every time an error occurred. (In this case, only the currently encountered error is displayed.) The error count is revised every time an error is met, whose count is in terms of two bytes.

If the error stop choice is "Yes", the test is interrupted immediately upon) occurrence of an error. In this case, the test can be resumed with the depressionsof then LCR by to If the DESC bakey is pressed and the control then returns to the DSK test menu (Fig.DSK-1). uenu (Ffg.DSK-1). Depression of the [F2] key interrupts the test with the following message on As verification is done in terms of two bytes, its significance is rexplained below for an example above. "Test stopped by user." Adrs [0x] = 0004If the [Fi] keyiam stehatements of the cost resumes, If the [EEC] key is pressed, the control returnBEED the BEEDE the Write data Read data (Fig.DSK-1). In this example, it indicates there is an unmatch in the <u>high-order</u> (1)the address "0005". (b-1) Read/write related error (2-3) Read only If an error occurred before the seek operation after the test started, the (2-3-1) Genëraloho dote rorra" (3-a) to evidoade a terminated 11 is test Depression of the [ESC] key causes the control to return to the DSK test By reading the data on the hard disk, test is conducted to the check if theorem When as error was not during the read/write telemiones ionoitars ago and and the status of the error are displayed (Fig. DSK-11) and the error count The testdeanobe donestodallIcylindersgr000 thru 6131dgir add of beyalgaib Althoughathemitest required time may vary depending on the drive unit, "it" may (.bbesabout diminute and 20 seconds tortest ally area, of the D3116, .berrusso I' the error step cheice is "Yes", the test is interrupted immediately upon (2-3-2)) Operational procedure test with the test procedure test and the test of an error derression of the [CRI key. If the [ESC; key is pressed, the control then Normally, the test will be carried out for cybinders range Osthru 618; sector countrate 128, single retrial, and without anverrors topu(d: No) stars if (a) Test .See the treor message list which is attached to this text. (a-1) Cylinder test range (b-2) Compare related error - "When an unmetch is encouncered the verifying the test data; the locarion and the unmetch data are displayed. Cylinder scope ? $\begin{bmatrix} 000 & -- & 613 \end{bmatrix} = \boxed{M}$ and the state of the Compare error Adrs [0x] = [照燈 The cylinder testing range must be specified. The test takes place from the beginning of the first specified cylinder ___number to_the_end_of the second_specified_cylinder number. (a-2) Sector count shi gnizivor sile continues continues effer revising the error stop choice is "No", the test continues effer revising the display every time an error occurred. (In this case, only the currently encountered crror is displayed. > The error count is revised every time an error is met, ?wHOUDCHONDERS in .sedyd owd lo smaet $[001 - 128] = \square$

-44-

Enter the sector testing range to be tested with a single command. Depression of the [0] key with the [CR] or mere depression of the [CR] key will assume the maximum range which is "128". (a-3) Retrials Retry count ? [0 -- 4] = 🕅 ------The number of retrials must be specified. When an error has been encountered in reading the data, retrials will be conducted as many times as specified here. (a-4) Error stop choice - - - - - - - - - - - -Error stop ? [0:Yes, 1: No] = 🛛 It must be specified whether the test is to be interrupted or not when an error is encountered in a middle of the read/write test. (a-5) Start Test start ? [0:Yes, 1: No] = 🛛 Start of the test must be acknowledged. Entry of [1] causes the control to return to (a-1) for an entry again. Entry of [0] starts the test with Fig.DSK-4 on display. Test pass count, binary address, and physical address [CCCHHSS] are displayed on the lower left side of the screen with the test to the right of it. A hexadecimal number is used to represent the pass count and the binary address, and an octal number is used to represent the physical address. . **. .** . **.** Pass N - 2020 Binary adrs [0x] = 🗰 Test mode: Read CCC.HH.SS

On the right side of the screen is displayed the number of errors by error kinds using hexadecimal figure.

er mere depression of the [UN] hey	אפר עלים אמכריגע בצבע איניא איניא איניאא איניאא איניאר איניאר איניאר איניאר איניאר איניאר איניאר איניאר איניאר א
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Depression of the [F2] key interr display.	upts the test with the following messa
"Test stopped by user."	Retry count ? { 0 4] = B
If the [F1] key is pressed while If the [ESC] key is pressed, the (Fig.DSK-1)	the above message is on, the test resu control returns to the DSK test menu wellicoge of taum elatrier to reduch o r mi hereincorne most and rorre as an of ballicoge as sould yram as betouch
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stop choice is "Yes", the test is an error. In this case, the test [CR] key. If the [ESC] key is pro- test menu (Fig.DSK-1). If printer is connected commend.	interrupted immediately upon occurrent can be resumed with the depression of essed, the control then returns to the $\frac{3}{2} = \frac{1}{2} \frac{3}{2} \frac{3}{2$
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<pre>stop choice is "Yes", the test is an error. In this case, the test [CR] key. If the [ESC] key is pro- test menu (Fig.DSK-1). If printer is connected, command p See the error message list which is (2-4) Hard initializer . misgs yring no rol (1-2) of or (2-4-1) General . rulgable as head This item is used to initialize the book of the hard disk once the . asothes look and this mesons Pay attention before the execution contents of the hard disk once the . asothes look and procedure (a) Initializing</pre>	interrupted immediately upon occurrien can be resumed with the depression of essed, the control then returns to the $\frac{1}{2} = [0.7; 1], 29, 7(0) + 1133 + 20.7$ parameter of the error will be printed is attached to this text. .begbelwonden of taum depth and le tra- uter of lorinoo of assume for the tra- stand diskible visual and le tra- ding hard diskible visual (le the best of of this task, as it destructs an ent estest is done of volum factooband of best of tests of the tra- stand tests of the test of the test of best of tests of the test of the test of best of tests of the test of the test of the test of the test of the test of the state of the test of the test of the test of the of the test of the test of the test of the of the test of the test of the test of the state of the test of the test of the test of the of the test of the test of the test of the of the test of the test of the test of the of the test of the test of the test of the of the test of the test of the test of the of the test of the test of the test of the of test of the test of the test of the test of the of the test of the test of the test of the of the test of the test of the test of the of the test of the test of the test of the of the test of the test of the test of the of the test of the test of the test of the of the test of the test of the test of the of the test of the test of the test of the of the test of the test of the test of the of the test of the test of the test of the of the test of the test of the test of the test of the of the test of the test of the test of the test of the of the test of test of the test of the test of the of the test of test o
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<pre>stop choice is "Yes", the test is an error. In this case, the test [CR] key. If the [ESC] key is pro- test menu (Fig.DSK-1). If printer is connected, command p See the error message list which : (2-4) Hard initializer </pre>	interrupted immediately upon occurrier can be resumed with the depression of essed, the control then returns to the $\frac{1}{2} = [0.7; 1]_{22} + 20.7; 0]$ i trata i.ed? parameter of the error will be printed is attached to this text. .begbelwonies of taum tead and le tra- uter of loritop of team tead and le tra- uter of loritop of team tead and le tra- dapit dithe read and states [0] is a i dig hard diskible yranid states [0] is a i of this task, as it destructs an ent estest is doney at return famileoband of beau at reduce faund famileoband at reduce faund at the reduce of the reduce faund famileoband at reduce faund at the reduce of the reduce faund famileoband at reduce faund at the reduce at the reduce faund famileoband at the reduce faund at the reduce at the reduce faund at the reduce faund at the reduce at the reduce faund at the reduce faund at the reduce at the reduce faund at the reduce faund at the reduce at the reduce faund at the reduce faund at the reduce faund at the reduce faund at the reduce faund at the reduce
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<pre>stop choice is "Yes", the test is an error. In this case, the test [CR] key. If the [ESC] key is pro- test menu (Fig.DSK-1). If printer is connected, command p See the error message list which is (2-4) Hard initializer </pre>	interrupted immediately upon occurrent can be resumed with the depression of essed, the control then returns to the assed, the control then returns to the assed, the control then returns to the parameter of the error will be printe is attached to this text. .begbolwonion of taun depth of lo brain ubor of loricop off secare (1) in off a.gift disk from off secare (1) in off a.gift disk from off secare (1) in off a.gift disk from off secare (1) in off and disksbbs grantd structs an en- ent is able that rewal and no bayalys of this task, as it destructs an en- entestrise dones, all volumen for bobased of boest at reduce for one bas, wants where (20) or ba yrants (20) of the secare off the secare of (20) of the secare off the secare off (20) off the secare off the secare off (20) off the secare off the secare off) of the secare off (20) of the secare off the secare off) of the secare off (20) of the secare off the secare off) of the secare off (20) of the secare off) of the secare off) of the secare off.

Enter the interleave factor with a number of 01 to 16. Normally, enter 03.

PC--- 7000A PC--- 7100

(a-2) Start of initialization

Initialize start ? [0:Yes, 1:No] = 🛛 - - - - - - -Start of the test must be acknowledged. Entry of [1] will cause the control to return to (a-1) "Interleaving" for an entry all again. Entry of [0] starts the initialization with the following message on display. "Initialize start." (a-3) Termination While the initialization is under way, the [ESC] key depression is not accepted. Although the time required for the initialization may vary depending on the disk unit, it may be about 50 seconds for the D3116. If the initialization has ended successfully, the following is displayed. "Initialize successful." Depression of the [ESC] or [CR] key in this stage causes the control to return to the DSK test menu (Fig.DSK-1). (b) Error processing If an error is met during the initialization, the following is displayed in a middle of the screen. "Initialize error." And the command parameter and the status of the error are displayed (Fig.DSK-11). Depression of the [ESC] or [CR] key causes the control to return to the DSK test menu (Fig.DSK-1). See the error message list which is attached to this text. (2-5) Bad initializer (2-5-1) General With this item is set the flag in the bad sector to prohibit it from being used. This operation is applicable to a track. Pay attention before the execution of this task, as it destructs an entire

contents of the hard disk once the test is done.

PC 7000A	
(2-5-2) Operational procedure	(z-2) Start of Initialization
-(a) -Bad -initialize	
(a-1) Cylinder	Initialize start ? [0:Yes, 1:No] =
Cylinder ? na toł "gniviolisini" (1-5) oj nuuser [000 613] = XXX	Start of the test must he acknowledged. Entry of [i] will cance the control to entry all again.
with the following message on	Entry of [0] starts the initialization v
The cylinder number in which the b number 000 to 613.	bad sector exists must be specified with a
(a-2) Head	· TTPIC SCTUTION
	101331118751 (C-S)
the [ESG] key depression is not Head ? [O:Yes, 1:No] = 🛛	While the initialization is under way, a accepted.
ذما لدهدامی سرب سربح عامی طرح طفیر عبد بارد. or the D1116.	and sk unit, it any be chout 50 seconds for
beilised a star be been been been been been been been	If the initialization has ended succession
(a-3) Start of the operation	"Initialize successful."
ot forthes all essues agate shit Start ? [O:Yes, 1:No] = 🛛	Depression of the [ESC] of [CR] key in the return to the DSK test menu (Fig.DSK-i).
	(b) Error precessing
Start of the task must be acknowld nt Entry of [1] causes the control to Entry of [0] starts the task.	edged. Scheitini ond gnivus dom si norve as it o return to (a-1) for an entry again. S middle of the screen.
(a-4) Termination	", torre sallatiat"
The task is conducted to a track. The task is conducted to a track. the track is prohibited thereafter as the control to return to the DSK	And the command parameter and the states After the task has been done, accessing of After the task has been done, argenter (Fig. DEK-11). Repression of the [ESC] or [CR] key cau
If the task has ended successfully	y, the following is displayed.
"Bad initialize complete." bodos	See the error messee list which is att
Depression of the [ESC] or [CR] k return to the DSK test menu (Fig.)	ey in this stage causes the control to
	TELEUS) (1-C-7)
galod mort it itdiniorq of roises ba	With this item is set the flag in the he used.
	This operation is applicable to a track
ifs tesk, as it destructs an entire	Pay ettention before the execution of Sl contents of the hard disk once the test

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(b) Error processing

If an error is met during the task, the following is displayed in a middle of the screen. "Bad initialize error." And the command parameter and the status of the error are displayed (Fig.DSK-11). Depression of the [ESC] or [CR] key causes the control to return to the DSK test menu (Fig.DSK-1). See the error message list which is attached to this text. (2-6) Random seek (2-6-1) General The head seeks sectors at random to check proper seek and read operations of the sectors. (2-6-2) Operational procedure (a) Test (a-1) Error stop choice Error stop ? [0:Yes, 1: No] = 🕅 _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ It must be specified whether the test is to be interrupted or not when an error is encountered in a middle of the read/write test. (a-2) Start ______ Test start ? [0:Yes, 1: No] = 🛛 Start of the test must be acknowledged. Entry of [1] causes the control to return to (a-1) for an entry again. Entry of [0] starts the test with Fig.DSK-7 on display. Binary address, physical address [CCCHHSS], and error count are displayed on the middle of the screen. A hexadecimal number is used to represent the binary address and error count, and an octal number is used to represent the physical address.

Supposed IoIII (4)
If an error is met during the
of the screen.
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Di 2,127 Al na terri in teatra, a territa con a tarri o territa.
And the countral parameter and
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the operation and to hot and the
test with the following message on
(2-6) Kondon seek
(2-6-1) General
message is on, the test resumes. Hurns'to the DSK test menu od? . 3701008 a.i.
an analog (Analogia a (2-0-2)
-1) "Error stop choice". trol to return to the DSK test
ek operation, the command lisplayed (Fig.DSK-11). resumes after incrementing the mediately upon occurrence of an med with the depression of the control then returns to the DSK
ed to this text.
හි :(දරාවැදරි) දී පැතකරන වනත්
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nuss of Jour Fibr onl is Terra nped) on the screen. I to verna yed in two parts; the first half

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-50-

(2-7-2) Operational procedure (a) Dump (a-1) Choice of dump address Physical address [CCC.HH.SS] = 000.00.00 Enter the dumping disk address in terms of the physical address. Depression of the [ESC] key causes the control to return to the DSK test menu (Fig.DSK-1). When the entry has been complete, the screen (Fig.DSK-8) appears with the data of the specified sector on display. (a-2) Termination The following is displayed on the lower left of the screen, when the task is complete. ESC:end, Enter: next half, Minus:start ? Or, ESC:end, Enter: next sector, Minus:start ? "ESC:" indicates the [ESC] key which causes the task terminated when depressed and the control then returns to the DSK test menu (Fig.DSK-1). "Enter:" indicates the [CR] key which brings on the screen a next sector or a second half of the sector now on display. "Minus:" indicates the [-] key which permits to start the entry from (a-1) all over again. (b) Error processing The task terminates unconditionally when an error is met, and the command parameter and the error status are displayed on the lower right of the screen (Fig.DSK-11). Depression of the [CR] key in this stage resumes the test. Depression of the [ESC] key causes the control to return to the DSK test menu (Fig.DSK-1). See the error message list which is attached to this text.

<u>901:01</u>		
(2-8) Dump and patch	oedure	(2-7-2) Operational pro
(2-8-1) General		(a) Dump
With this task, the contents of th	e disk are displaye	daonatherscreen (to; bea)
patched up. - The contents of a sector (512KB) i two parts; the first half (256KB) second half (256KB) on the right's	s-displayed_in the on_the_left_side_of ide.	hexadecimal figure in - the screen and the serees from the
(2-8-2) Operational procedure	ταδα ασο αφο στο τότο το και	all an an an an an an an an an
of the physical address. control to return to the DSKdata9 (a)	sk address in terms SC] key causes the	Enter the dumping di Depression of the [E menu (Fig.DSK-1).
(a-1); Choice; of; patch3 address) noors	een complete, the s d sector on display	When the entry has b data of the specifie
Physical address [CCC.HH.SS]		eci) Terminetica
left of the screen, when the task is	played on the lower	The following is dis complete.
Depression of the [ESC] key causes menu (Fig.DSK-1). When the entry has been complete, dump data on display.	the control to ret	urn to the DSK test Tollar, provided -9) appears with the
Depression of the [ESC] key causes menu (Fig.DSK-1). When the entry has been complete, dump data on display. (a-2) Termination	the control to ret	urn to the DSK test TSOLN DID DAN -9) appears with the
Depression of the [ESC] key causes menu (Fig.DSK-1). When the entry has been complete, dump data on display. (a-2) Termination The following is displayed on the complete.	the control to ret the screen (Fig.DSK lower left of the s	urn to the DSK test -9) appears with the
 address. Depression of the [ESC] key causes menu (Fig.DSK-1). When the entry has been complete, dump data on display. (a-2) Termination The following is displayed on the complete. 	the control to ret the screen (Fig.DSK lower left of the s	urn to the DSK test -9) appears with the (4) creen, when the task is bound point the task is
<pre>Depression of the [ESC] key, causes menu (Fig.DSK-1). When the entry has been complete, dump data on display. (a-2) Termination The following is displayed on the complete. Write^b address^b [0x]ⁿ = MMS ⁿ ESC .(1-320.3tm) элон этор 120 oht of to rodoes draw a netroe oht no again</pre>	the control to ret the screen (Fig.DSK lower left of the s shift for the s shi	urn to the DSK test Formation (one for the for the for the for the for the for the formation of the formati
Depression of the [ESC] key, causes menu (Fig.DSK-1). When the entry has been complete, dump data on display. (a-2) Termination The following is displayed on the complete. Writebaddress [0x] ⁿ = 000 ³ ESC (1-283.3 ^[N]) onen trept 180 ont ou (1-283.3 ^[N]) onen trept 180 ont ou robust Jan 2 nestors only no again .val (And) the control now waits for anne displayed on the right are valid. causes the task terminated when de	the control to ret the screen (Fig.DSK lower left of the s anime rough into end, Minustwrite anime rough inte anime rough inter anime rough inter	urn to the DSK test Formation of the DSK test FOR appears with the (4) creen, when the task is room, one det to oble to be seen as I separish. "Protection Heys he [ESC] keynwhich a trol then returns to
<pre>Depression of the [ESC] key causes menu (Fig.DSK-1). When the entry has been complete, dump data on display. (a-2) Termination The following is displayed on the complete. Write address [0x]^a = XXX ^a ESC (1-X20.31^a) anon Jack ISU and of 10 Toloss for a netros off no again .val (And) the control now waits for an e displayed on the right are valid. causes the task terminated when de the DSK test menu (Fig.DSK-1). "Minus:" indicates the [-] key whi</pre>	the control to ret the screen (Fig.DSK lower left of the s lower left of the s in a robot last a notor node last a lotily yes [20] of qaib no won robots ntryp of the write a "ESC:" indicates t pressed and the con ch writes the data	urn to the DSK test "Formal one formation of the DSK test -9) appears with the (4) creen, when the task is "Formal one (4) address is boundary b oil b to boundary address is function keys he [ESC] key which a trol then returns to galaspoor round (d) currently on display,
 Address. Depression of the [ESC] key causes menu (Fig.DSK-1). When the entry has been complete, dump data on display. (a-2) Termination The following is displayed on the complete. Write address [0x]^a = MM ^a ESC (1-320.3)^a) anon the following is displayed on the complete. Write address [0x]^a = MM ^a ESC (1-320.3)^a) anon the following is displayed on the control new waits for an red displayed on the right are valid. causes the task terminated when de the DSK test menu (Fig.DSK-1). "Minus:" indicates the [-] key whi after which time the control moves only to black the details of the black terminated when de the data the the time the control moves only to black the details of the time the control moves only to black the details of the time the control moves only to black the details of the time the control moves only to black the details of the time the control moves only to black the details of the time the control moves only the time the control moves only to black the details of the time the control moves only the time t	the control to ret the screen (Fig.DSK lower left of the s lower left	urn to the DSK test F9) appears with the (4) creen, when the task is regard, one (44) add besident "(082" b oil bis beseries l secolation "trains" add to fiel becore a ddress. Infunction Keys he [ESC] key (which is trol then returns to galascoorg voral (d) currently on display, secondened data add to add bis ustances



For the data are still remaining even after the erasure of the ASCII screen, it permits to restore the previous data with the depression of the [-] key. The following message appears in the lower right side of the screen when the entry is complete. - - - - - - - - -ESC:end, Enter:store Minus:exit "ESC:" indicates the [ESC] key which causes the task terminated when depressed and the control then returns to the DSK test menu (Fig.DSK-1). "Enter:" indicates the [CR] key which completes the entry. "Minus:" indicates the [-] key which permits to exit from the data write mode and the control returns to (a-2). (a-4) Patch termination and write to disk When write is commanded to the disk with the [-] key, the following screen is displayed. Write start ? [0:Yes, 1:No] = 🛛 Depression of [0] brings the following message displayed after writing data onto the disk. Depression of [1] the same is displayed without any action. ESC:end, Enter:next, Minus:start ? - - - - - - - - -"ESC:" indicates the [ESC] key which causes the task terminated when depressed and the control then returns to the DSK test menu (Fig.DSK-1). "Enter:" indicates the [CR] key which comes to dump a next data on the screen for patchup, then it moves to (a-2). "Minus:" indicates the [-] key which causes the control to return to (a-1) for an entry again from the address entry. (b) Error processing The task terminates unconditionally when an error is met, and the command parameter and the error status are displayed on the lower right of the screen (Fig.DSK-11). Depression of the [CR] key in this stage resumes the test. Depression of the [ESC] key causes the control to return to the DSK test menu (Fig.DSK-1). See the error message list which is attached to this text.

PC = 7100(2-9) Check& sector buffer and disk control hegains and lits ous stab and not it permits to restore the provious data with the depression of the [-] hey. (2-9=1) General off he shid tight revol and in arappy ageness griwollof and antry is complete. This task checks the sector buffer and the disk controller. (2-9-2) Operational procedure ESG:end, Enter:store Minus:exit معتد المحاصية والان والمحاصية والمحاصية المحاصية والمحاصية والمحاصية (a) Test (a-1) Starty December for and seese dolde yes [OSS] and sedecibri ":DSR" depressed and the control then returns to the DSK test manu (Fig. DFR-1). - - Winter: " Interfaces the feather ward the second taken and the second taken and the second and the second a Test start ? [O:Yes, 1!No] = [No] tar (oh [-] and astocici ": annim" mode and the control returns to (2-2). (a-4) Fatch termination and write to disk Start of the test must be acknowledged. "Entry of [0] starts the test. and while web and of bebrauerop of after nody abovsigaio ur (a-2) Termination The following displayed after successful termination of the test. Sector buffer ... OK !! Also guiding rolts by signify of Controller ... OK !! Surrowing of [0] the the color of the months Anto the dire. ෙසමාස අතුන එකාස් සිංචාසාය දැනි සාස සංසාස සමාජ දී දී සිංහා සාසාස සංසා Above message will be displayed, at this stage [ESC] key is depressed, then following message will be appeared. I to a though a paper will be appeared. Fest end terrat shad and normal constructions (40%) and consulate "and." a d'E-1272-6291) e de les 2714 de de centre d'ante de de de des presentes a "Enter:" indicated the [CE] her which comes to easy a next date on the Depression of the [ESC] or [CR] key causes the control to return to the DSK (1-5) of any of the least of the DSK (1-5) of any of the least of the DSK (1-5) of any of the least of the leas test menu (Fig.DSK-1). If an error was met, it will be alerted with "Compare error !" or "Error !", instead of "OK !!". all about to portal (4) (b) Description bus los el rorro as nodo vilsandiformore solatmore dest dif (b-1) Sector buffer 国王·加尔尼·周尔() 中国为10月 The test data of an incremental pattern of "00" to "FF" are used for the first time, "55" for the second time, and "AA" for the third time. S. 1993

7000.



Register within the disk controller is checked.

(2-10) Error table display

(2-10-1) General

All error kinds, error locations, and error counts are displayed for (1) Write, read, compare, (2) Read only, and (5) Random seek tests. However, error information is limited to 50 locations.

(2-10-2) Operation

The test starts immediately without any key operation. (a) Error information are displayed (Fig.DSK-12).

When no error is occured, the error massage will not be displayed.

(2-10-3) Termination

Depression of the (ESC) or (CR) key causes the control to return to the DSK test menu (Fig. DSK-1).

(3) Error message

(3-1) Error before the start of the task

If the hard disk unit were not ready in executing a task, any task thereafter will not be executed with the following message on the lower left side of the screen.

"Drive not ready."

(3-2) Error during the execution of test

The following is displayed on the lower right side of the screen when an error is occurred during the execution of the task (Fig.DSK-11).

Error occurred. AX: MMMM, BX: MMMM, CX: MMMM, DX: MMMM, ES: MMMM Status = MM (error message)

The contents of the register at the error occurrence are represented by AX to ES. The high order byte of AM indicates the error code. For more details, refer to the Service Manual. Status represents the contents of the disk controller status register.

(3-3) Error message (b-2) Disk controlier Register within the disk controller is checked. Bad command [hex 01] Shows that an invalid command is received. (2-10) Error table display Bad address mark [hex 02] Shows the occurrence of an address mark read error. (2-10-1) General Record not found her 04] must serve and error torns, shall error LIA tests. However, error information is limited to 50 locations. Bad sector [hex OA] Shows that a bad sector is found. (2-10-2) Operation Bad ECC on disk read [0. rest is the start any key [0. rest starts immediately without any key [0. rest starts immediately without any key [0. rest starts immediately starts immediatel Shows the occurrence of an ECC_error durings datab read. noithantoini gord (a) Bad seeko hex 7404 of ton like agases more sit , bernoot of rorro no meet when no Shows the occurrence of a seek error during seek. (1-10-3) Termination Others Depression of the (ESC) of (ER) bey causes the contrarror are the light of DSE .(-WBH .giT) snom isot Compare error (3) Error message Shows an unmatch of the write data with the read data. (3-4) Error before the start of the task is the and dick and even act react in executing a task day to the estimate of the exection of the later and accurate of the leave toff adde of the streen. ". YDENI IOG ONIEG" (3-2) Error during the execution of test The following is displayed on the lower right side of the second when an error is occurred during the execution of the task (Fig.DSK-1). -DOTIEDOD TOTER AN: MILL . MILLING. CI. MAN. DI. MILL. ES: MAN. 201 - august (error message) بدرو محتور شورد محدد شعت The contents of the register at the error occurrence are represented by AX to ES. The high order byte of AM indicates the error code. For more dotalls, refer to the Service Manual. Status represents the contents of the disk controller status register.

PC-7000A PC-7100

15 SCREEN FORMAT







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- 7000A - 7100 PC

Fig. DSK-4









PC-7000A PC-7100

Screen Format

Fig. DSK-8



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03 Physical addr	els s. ? (CCC, HH. SS) = XXX XX X	
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PC - 7000APC - 7100









PC-7000A PC-7100

Screen Format

Fig. EXP-6





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