

27 APR. 1989

## Delivery list for:

ND-no	Ver	Product name	Price cat.
211187	B	DISK RESTORE	STIN

## Language Ver/Rev

English: B 01

The product consist of:

ND-no	Ver	Product Name	Rev. week
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Manual(s):

ND-no	Ver	Rev	Lng	Name	Rev. week
NONE					

PD- or PI-sheet:

ND-no	Ver	Rev	Lng	Name	Rev. week
895081.1			EN	Product Information for ND-211187B	8848

Diskettes:

Format DS/DD:	Format SS/SD:	Rev. week
211187B01-XX-01D	None	8848
211187B01-XX-02D		8848
211187B01-XX-03D		8848



# Product Information

Product name

Disk Restore

Product number

211187B

## Description of product

The stand-alone program Disk Restore can be used to restore the main directory of the computer from a backup device, when SINTRAN-III is not running.

This is necessary for example if a physical disk crash has occurred, or if you want to install a completely new version of the main directory ("system disk") from streamer, magtape or another disk.

Disk Restore version B can restore backups taken by:

- Backup Manager (Copy-method : Image)
- Backup-System (DEVICE-COPY command)

Disk Restore version B is delivered on three separate diskettes. The diskettes contain a stand-alone version of SINTRAN-III and the Disk Restore program.

## Reason(s) for new product or version

New features in Disk Restore version B:

- can handle Backup Manager tape volume format
- can restore from a tape containing several image-backups (Backup Manager format)
- can restore an image backup copied with the Backup Manager control-option (Pu) "Pages used on directory"
- can restore from backup devices on both SCSI adaptors 1 and 2
- you can interactively define SCSI adaptor and node number for a SCSI-device.

The userinterface has been changed.

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## 1 Prerequisites

The following things are required in order to use this product.

### 1.1 Hardware prerequisites

The following hardware must be present for this product to be used:

CPU type (any of the following):

- 100 CX
- 110 Standard
- 110 CX
- 120 Standard
- 120 CX
- 500
- 5000

NOTE!! All with minimum 2MB memory (Mem.Mgt II)

Floating format: *Any*

Other hardware:

None

### 1.2 Software prerequisites

None

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## 1.3 Other prerequisites

None

## 2 Dependencies

In addition to the above listed hardware and/or software prerequisites, the following dependencies exist between this and other products. The hardware and software listed here may, for example, be necessary to use the product's full functionality.

### 2.1 Hardware dependencies

None

### 2.2 Software dependencies

There are dependency relationships between this product and the following software:

<u>Product name</u>	<u>Product number</u>
Backup Manager	211226
Backup-System	210337

#### Nature of dependency

The backup copy you want restore must have been produced by one of these products.

### 2.3 Other dependencies

None

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## 3 Documentation

Included (distributed free with product)

<u>Title</u>	<u>Number</u>
None (Only this product information)	89

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## 4 Installation procedure

### 4.1 Automatic installation

As Disk Restore is a stand-alone program, no automatic installation procedure exists.

### 4.2 Non-automatic installation

Disk Restore must be run from Terminal number 1 (the Console).

- Insert diskette number 1 in Floppy-Disk-1 unit 0.
- Execute the following commands:

```
#MACL↓  
#1560&
```

(NOTE! Do NOT press ↓ after 1560&)

You will then get the messages:

```
-- FLOppy to MEMory copying B01 --  
Insert next floppy and type any character to continue -->
```

- Insert diskette number 2 in Floppy-Disk-1 unit 0, and type any character on the console to continue.

You will then get the message:  
*Insert next floppy and type any character to continue -->*

- Insert diskette number 3 in Floppy-Disk-1 unit 0, and type any character on the console to continue.

You should now get the following messages:

```
-- End of copy, now starting SINTRAN-III
```

```
Disk restore version B01 October 24, 1988
```

```
Di-Re:
```

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- Mount the backup storage medium on the source device, and execute the command:

Di-Re: RESTORE-DISK↓

From (Directory/Volume) : VOLUME↓  
 Source device name : STREAMER-1↓  
 Source device unit : 0↓  
 Retension(Yes/No) : NO↓  
 Compare (Yes/No) : YES↓  
 Destination device name : DISC-SCSI-1↓  
 Destination device unit : 0↓  
 Destination device subunit: 0↓

Note that a ↓  
will display the  
default values

Retension means  
winding/rewinding  
the tape once to  
release stress.  
Question will only  
be asked when  
restoring from  
streamer device.

Loading

Mounted volume is: TESTVOL  
on device: STREAMER-1,0

Give command (Continue/Retry/Cancel) : CONTINUE↓

If a wrong volume is  
mounted, then you can

- mount a new and  
RETRY
- or CANCEL procedure

Searching

----- Image found -----  
 Volume : TESTVOL  
 Reel : 1  
  
 Index : 1  
 Computer : BIFROST  
 Directory : TEST-2  
 Device : DISC-SCSI-2  
 Pages : 61054  
 Backed up : 88-10-11 15:29:30  
 Control : RdFc (Reserve Directory, Force Close)

Confirm start of restore (Start/Next-Image/Cancel) : START↓

Copying  
Rewinding  
Comparing

1 image(s) copied

Use START to start  
restoring this image.  
Use NEXT-IMAGE to  
search for next image  
on the tape.

Di-Re:

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- When the image of the main directory is restored, restart the computer by using the "stop" and "start"-buttons on the computers frontpanel.

SINTRAN-III will then boot and start from the new main-directory. You should now be able to log in as normal.



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## 5 Modifications

### 5.1 New functions/commands

- Disk Restore can now handle Backup Manager tape volume format. Disk Restore can therefore restore a directory from a tape volume containing copies of several directories.

- Disk Restore can restore from backup devices connected to either ND-100 SCSI-adapter 1 or 2. (See chapter 7 for SCSI node number conventions.)

- The following commands are now available in Disk-Restore:

DESCRIBE-COMMANDS <command>  
HELP <command>

LIST-PARAMETER <parameter>  
SET-PARAMETER <parameter>

RESTORE-DISK <from><source device name><unit><subunit><compare>  
<destination device name><unit><subunit>

DEFINE-SCSI <devicenumber><adapto number><scsi nodeno.>  
LIST-SCSI <devicenumber>  
DELETE-SCSI <devicenumber>

See CH.7!

STOP-SYSTEM

### 5.2 Changed functions/commands

SET-PARAMETER :

OVERWRITE DIRECTORY (YES/NO) : Default NO  
(check destination before restore from tape)  
SINTRAN-COMMANDS ENABLED (YES/NO): Default NO  
(no Sintran commands allowed from Disk-Restore)  
TERMINAL-TYPE : Default -5067

RESTORE-DISK : handles Backup Manager tape format etc.  
START-SYSTEM : to start SINTRAN-III from restored disk

### 5.3 Removed functions/commands

None

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## 6 Errors corrected

CIPHER Magtape on unit 0 can now be handled.

## 7 Limitations concerning SCSI-devices

For backup devices connected to ND-100 SCSI, Disk Restore has implemented the following default conventions for SCSI adapter numbers, SCSI node numbers and device names:

<u>Devicename used in</u> <u>DISK-RESTORE commands</u>	<u>DISK-RESTOR defaults</u> <u>SCSI-adapter/-node</u>
STREAMER-1	1.1
STREAMER-2	2.1
MAG-TAPE-1	1.2
MAG-TAPE-2	2.2
<systemdisk>	1.0

### NOTE!

The DELETE-SCSI and DEFINE-SCSI command can be used to alter this convention for a given SCSI-device on your computer.  
The devicenumbers for some backup-devices are:

STREAMER-1	2206B
STREAMER-2	2207B
MAG-TAPE-1	560B
MAG-TAPE-2	1111B