

# **DISK INTERFACE**

**Manual**

 **Technology Research Limited**

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# **USER MANUAL FOR DISK INTERFACE**

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Dear customer

Congratulations in making a wise choice. Technology Research is confident that you will have many years of reliable service from the Interface.

The Technology Research Disk Interface has many advanced features which are summarised as follows:

- ★ **Security:** you can use the password facility to stop others copying your valuable programs.
- ★ **Easy and fast access:** you will be able to retrieve your data/program a lot faster than using cassette tape.
- ★ **Wide choice of disk drives:** you are not restricted to a particular make of disk drives. You can use a 40 track or 80 track, single or double sided disk drive. In short you can use most makes of disk drives on the market today.
- ★ **Flexibility:** you can increase the number of disk drives to a maximum of 4.

This booklet contains all the information that you will need to make full use of the Technology Research Disk Interface. Technology Research wishes you to have many happy years with the Interface.

# CHECKLIST

Version 4.12

Please check that you have the following:

- 1 Technology Research Disk Interface.
- 1 Technology Research Software disk.
- 1 Manual.

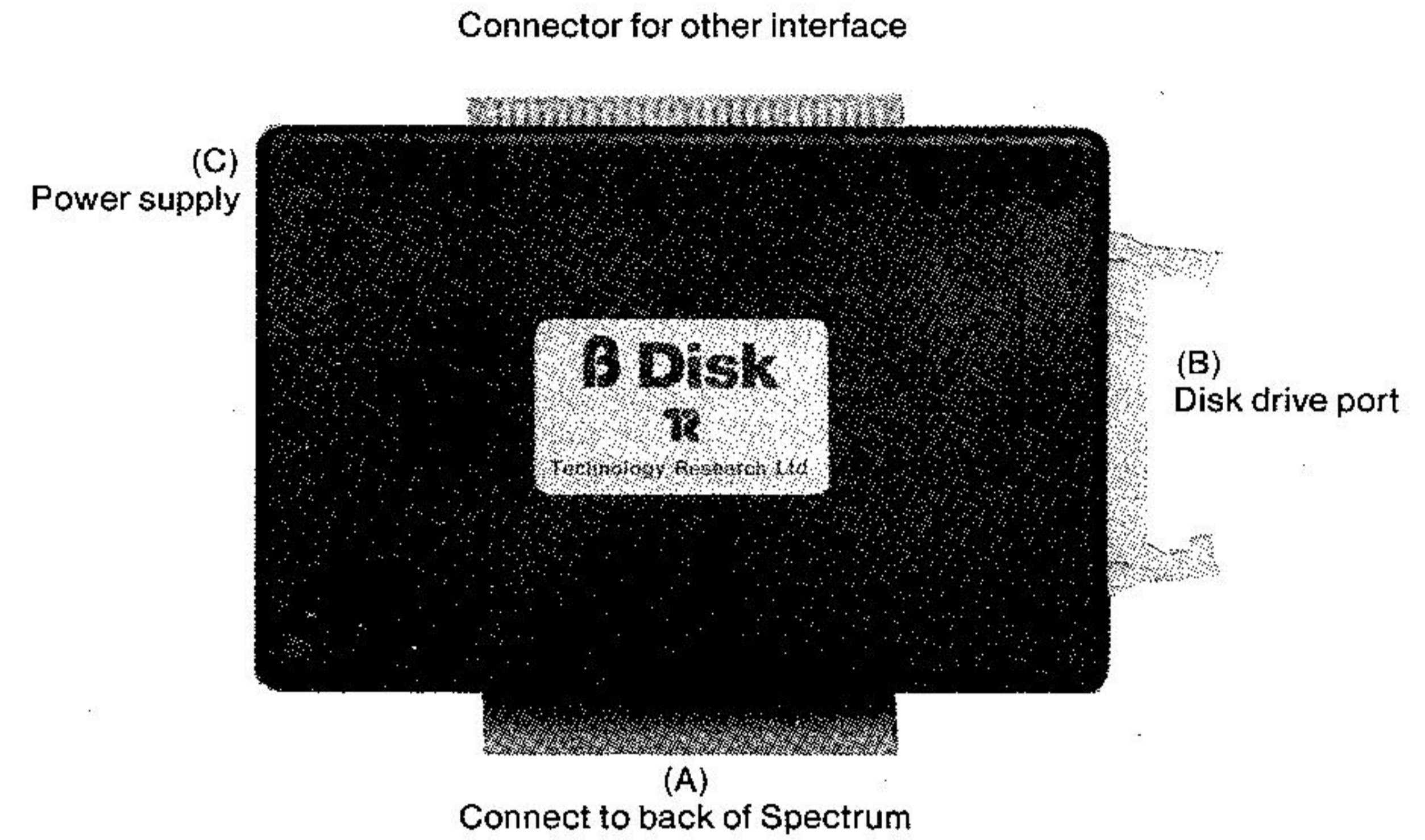


DIAGRAM 1: DISK INTERFACE

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## A INSTALLATION PROCEDURE

Now that you have the Interface and a disk drive or a number of disk drives, please proceed according to the following steps.

1. Connect the Interface to your Spectrum; please use Diagram 1 on the inside cover of this booklet to identify the connectors on the Interface, and plug the Interface directly into your Spectrum (labelled A in diagram).
2. Plug your disk drive into the "disk drive port" (labelled B in diagram) in your Interface using the cable that comes with your disk drive.
3. Switch on your disk drive and leave your Spectrum switched off. If the "drive on" indicator of your disk drive is on, then the disk drive socket is upside down. Turn the socket through 180 degrees and try again. You will find that the drive on light should go out.
4. Plug the power socket from your Spectrum power supply into the power socket (labelled C in diagram) on your Interface. When you switch on, you will notice your disk drive engaged momentarily. This is normal.
5. On your monitor (TV), you will see the current version of the software in your Interface and the name of Technology Research at the top of the monitor. This means that your Interface is working.
6. Insert the Technology Research software disk that comes with the Interface into your disk drive.
7. You will have to put in a password in order to access the software stored on your disk. The password that is used in all Software disks is "tr". You can always change it later if you wish.

On the monitor (TV), you will find the symbol "A>". This prompt is issued by the Interface program and is a reminder that you are NOT in Sinclair BASIC. You are connected to disk drive A which is always the default disk drive.

### IMPORTANT

NEVER disconnect the Interface from the Spectrum whilst the power is still applied.

NEVER leave your disk in the disk drive while power is switched on or off.

## B A SIMPLE GUIDE FOR THOSE WHO ARE NOT FAMILIAR WITH THE INTERFACE

In this section, you will be introduced to various Disk Operating System (D.O.S.) Commands through simple examples. They are probably something you are likely to do the first time you come to use the Interface. The examples are arranged in an order a complete beginner is recommended to follow.

### B.1 EXAMPLE 1: SWITCHING FROM Disk Operating System (D.O.S.) TO SPECTRUM BASIC AND VICE VERSA. (How do I know when to use Sinclair BASIC or Disk Operating System (D.O.S.)?)

When you are in Sinclair BASIC, you do NOT get a prompt. If you get the prompt "A>", then you are in D.O.S.

To go from D.O.S. to Spectrum, press the following sequence of keys:

**RETURN ENTER**

To go from Spectrum to D.O.S., type in the following:

**RANDOMIZE USR 15360**

and you will get the D.O.S. prompt

A>

*Botadisk 5 = 15616*

### B.2 EXAMPLE 2: PREPARING A NEW DISK (FORMATTING) (What do I have to do before I can use a brand new disk?)

Before you can use a disk, track markers have to be put on to the disk. All subsequent data that you put in will be stored into these marked tracks.

If you only have one single disk drive, you will need to put in the Software disk into the disk drive first (assuming you have already switched the Spectrum and the disk drive on) and to have a new disk ready.

Here is what you have to do:

1. Type in the line

**RUN "format" CODE**

(this command loads the program into the Spectrum. Now you will receive further prompts to advise you what to type in).

**IMPORTANT:** If you have one SINGLE disk drive, then please take the Software disk out and put the new disk in. If you DO NOT do this, you will format your Software disk and all the information on it will be lost.

2. You will need to tell the computer which disk drive you will be using. If you only have one disk drive, then logically you have to call it disk drive "A".
3. Then decide the password for the new disk and write it down somewhere you can refer to easily.  
**IMPORTANT:** If you lose the password, then you will not be able to access the data again.
4. Please type in the information when you are prompted. If the disk is good, then you will get no error. If the disk is faulty, then you will get an error prompt. In this case, you are advised to return the faulty disk to your dealer.
5. Let us do one example. Suppose you have a disk drive which you call "A", you name the disk "BLUEPETER" and the password "PETER". Then you will see the following on the screen.

A> RUN "format" CODE

\* Mini-floppy Format Ver 2.3 \*  
© 1984 Technology Research Ltd

1 ----- 40 track single sided  
2 ----- 80 track single sided  
3 ----- 40 track double sided  
4 ----- 80 track double sided  
Q ----- Quit

Which format?

Assuming you are using a 40 track single sided disk drive, then you will select 1.  
The screen will show:

\* 40 track single side \*  
Which drive? (A, B, C, D, Menu) A (your input is required here)

Please insert disk in drive A  
When you are ready, type F for format  
V for verify  
Q for quit

F

Please type in a password: PETER

Please type a name for this disk: BLUEPETER

formatting track 00  
reading track 00  
formatting track 01  
reading track 01

...  
(and so on until it reaches track 39)

O Error(s)

Which Drive? (A, B, C, D, Menu)

If you wish to proceed to format more than one disk, then you type in the name of the disk drive and repeat the above procedure.

### B.3 EXAMPLE 3: CHANGE DISK PASSWORD (I do not like the Software disk password, how do I change it?)

You have to know the password before you can change it to another word of your preference. Let us assume that you have already typed in the required password and you are in D.O.S. environment. To change the password to say JENNY, type:

USR

and type in the new password after you receive the prompt.

New password: "JENNY"

The password of the disk is now JENNY.

**B.4 EXAMPLE 4: FILE TABLE**  
(How do I find out what is on the disk and how much space I have got left?)

To find out what is on the disk, you want a CATALOGUE of the items on the disk. The command for this is CAT. If you use this command on the Software disk, you will get the following:

```
Title: Utility
3 File(s)
0 Del. File(s)
A: format <C> 10      : copy <B> 2
A: copy <C> 14
364 Free
```

The first three lines indicate the title of the disk is called "Utility", and there are 3 accessible files and there is no deleted file.

The next line informs you that there are three programs called format <C>, copy <B> and copy <C> in disk drive A. Take the format <C> as example the letter code C within the bracket means that it is a machine code program. In other words, the file type is CODE. For a BASIC program, the code is <B> and for data file, the code is <D>. The number following the file code is the length of the program. In this case the length of the program is 10 sectors.

The last line shows you that you have 364 sectors left on the disk.

(NOTE: there are 4 sectors in 1K byte.)

**C. MANUAL FOR THE DISK OPERATING SYSTEM (D.O.S.) COMMANDS**

**C.1 ERASE**

This command will allow you to remove a file from the disk. You will have to specify the file type as well if the file is not a BASIC program file.

e.g.

```
ERASE "filename"           for a basic program file
ERASE "filename" CODE      for a machine coded program file
ERASE "filename" DATA     for a data file
```

**C.2 LOAD**

This command will allow you to load a program from disk to your Spectrum. Please note that if there is insufficient memory in your Spectrum, you will get an error message

\*ERROR\*

When LOADING is complete and without error, you are automatically returned to Spectrum BASIC and the program is listed.

Example:

```
LOAD "fileone"
```

When loading Machine Code program, it can be relocated to a different address.

Example:

```
LOAD "filename" CODE 36000
```

The Machine Code program is loaded into RAM starting from 36000.



### C.3 MERGE

This command is used to combine two or more BASIC program files. i.e. a number of programs can be merged to form a large program.

For example:

**MERGE "OLD"** to merge program OLD with the program in RAM  
**MERGE "B:NEW"** to merge program NEW in disk drive B with the program in RAM.

### C.4 MOVE

After a file has been deleted from disk, a gap is left behind. As you continue to store programs on to the disk, eventually there will not be enough continuous storage space to store your program. When this happens, the retrieval and storage time for your program will increase. So to ensure this does not happen, you can use this command to repack the files on the disk in order to get rid of these "holes".

Note: this command requires 4K of memory for work space. If there is insufficient memory space, an error message will be displayed:

**\*ERROR\***

Example:

**MOVE**

### C.5 NEW

Use this command when you wish to change the name of an existing file on disk. You will have to specify the file type if the file is not a BASIC program file.

Example:

**NEW "newfile", "oldfile"** for BASIC program files.  
**NEW "newfile", "oldfile" CODE** for machine code program files.  
**NEW "newfile", "oldfile" DATA** for a data file.

### C.6 PEEK

This command allows you to read any part of a file on disk and transfer the data into RAM. You can only read a sector at a time and transfer the data to any location within the Buffer RAM.

The command is in the form:

**PEEK "filename" Buffer address, Record number**

For example:

**PEEK "RECORD" 30023, 1** The first sector of the file "RECORD" is read and its content is written to RAM from the buffer address 30023.

**PEEK "B:OLD" 30024, 10** The 10th sector of the file "OLD" on disk drive B is read and its content is written in RAM from the buffer address 30024.

### C.7 POKE

The command allows you to write a sector of data from RAM to any location in a file on disk. The command takes similar form as PEEK, i.e.

**POKE "FILENAME" Buffer address, Record Number**

For example:

**POKE "RECORD" 30023, 1** A sector length of data starting from RAM address 30023 is written to the first sector of the file "RECORD".

**POKE "B:OLD" 30024, 10** A sector length of data starting from RAM address 30024 is written to the 10th sector of the file "OLD" in disk drive B.

### C.8 RANDOMIZE USR 15360

*15616 bei Betadisk 5*

Use this command when you wish to return to D.O.S. from Spectrum BASIC.

## C.9 RUN

This command will load a file from disk and run the program.

You can either run BASIC program or a machine code program.

For example:

<code>RUN "file1"</code>	for running a BASIC program.
<code>RUN "file1" CODE</code>	for running a machine code program.

## C.10 SAVE

This command will save a program in your Spectrum onto disk and the name of that program will be called "filename". You will also need to specify the file type if the program is not a BASIC program file.

When saving a BASIC program, a line number can be specified for auto-run. If the line number is not specified then line one is used.

For a machine code program, there are three extra inputs: you will have to specify where the code is stored in the Spectrum by putting down the start address and length. The third parameter which is optional, is the address for autorun. The format is:

SAVE "filename" CODE starting address, length, auto-run, address

For example:

<code>SAVE "file1"</code>	to save a BASIC program.
<code>SAVE "file1" LINE 1000</code>	to save a BASIC program run from line 1000.
<code>SAVE "file1" CODE 10, 200</code>	to save a machine code program.
<code>SAVE "file1" DATA a()</code>	to save a variable array a.
<code>SAVE "file1" DATA a\$( )</code>	to save a character array a\$.

## C.11 SELECTION OF DISK DRIVE

The default disk drive is set for disk drive A. The command to select other disk drives is as follows:

<code>*"B:"</code>	for selecting disk drive B.
<code>*"C:"</code>	for selecting disk drive C.
<code>*"D:"</code>	for selecting disk drive D.

## C.12 USR

You can use this command to change the password of your disk. The password must not be longer than 9 characters (alpha-numeric).

For example:

<code>USR</code>
New password: <code>"BLUEPETER"</code> .

## D. QUICK REFERENCE GUIDE TO D.O.S.

Commands	Functions
*"A:"	to select disk drive A
*"B:"	to select disk drive B
*"C:"	to select disk drive C
*"D:"	to select disk drive D
CAT	to display the file names
ERASE	to rub out (delete) a file e.g. erase "filename"
LOAD	to load a program from disk to Spectrum
MERGE	to combine 2 or more BASIC programs
MOVE	to reorganise the location of files and pack them together
NEW	to change the name of a file on disk e.g. new "newname", "oldname"
PEEK	to random read from a file
POKE	to random write to a file
RANDOMIZE USR 15360	to go into D.O.S. environment from Spectrum BASIC
RETURN	to return to Sinclair BASIC from D.O.S.
RUN	to load and run a program e.g. run "name" CODE
SAVE	to save a program on to disk e.g. save "name"
USR	to change disk password

## E. USING D.O.S. COMMANDS IN BASIC PROGRAMS

No doubt as your program skill develops, you will exploit the fast access time of the disk drive. You can do this from within BASIC. All the D.O.S. commands that are described above can be called up from within BASIC line with the following structure and the line can be anywhere within the BASIC program:

line number RANDOMIZE USR 15363: REM : [D.O.S. commands].

For example:

If you wish to run a program called "sketch" which is stored on disk from line 300 in your BASIC program, then all you have to do is to have the following line in your program:

*300 RANDOMIZE USR 15363: REM : RUN "sketch"*

NOTE:

The D.O.S. command must be the last in every BASIC program line, any other statements after the D.O.S. command must start from a new statement line.

For example:

A BASIC line before modification:—

*10 LOAD "TEST"CODE : GOTO USR R*

After modification:

*10 RANDOMISE USR 15363: REM : LOAD "TEST"CODE  
11 GOTO USR R*

## F. HOW TO CONVERT PROGRAMS FROM CASSETTE TO DISK

### F.1 Loading from cassette to disk.

You can achieve this in your BASIC program by using the line:

```
RANDOMIZE USR 15363: REM : LOAD "filename".
```

For example:

If the LOAD command in your cassette version is:

```
200 LOAD "filename"
```

Then it can be replaced by:

```
200 RANDOMIZE USR 15363: REM : LOAD "filename"
```

### F.2 Saving from cassette to disk.

The process is similar to the LOADING process described in F.1.

For example:

If the SAVE command in your cassette version is

```
200 SAVE "filename"
```

Then it can be replaced by:

```
200 RANDOMIZE USR 15363: REM : SAVE "filename"
```

## G. TO CALL D.O.S. COMMANDS FROM MACHINE CODE PROGRAM

When calling D.O.S. commands from BASIC program, e.g.

```
RANDS USR 15363: REM : LOAD "example"
```

To run above command in Machine code, all you have to do, is to "fool" the system by altering the BASIC variable CHADD to point to an address line buffer, created by your machine code program.

For example:

If you use a buffer address 40000, then the above command will be set to:

address	code		comment
40000	234	REM	BASIC REM code
40001	58	:	
40002	239	LOAD	BASIC LOAD code
40003	34	"	
40004	101	e	
40005	120	x	
40006	97	a	
40007	109	m	file name "example"
40008	112	p	
40009	108	l	
40010	101	e	
40011	34	"	
40012	13	ENTER	always end with ENTER

Once the above line is finalized you can call the following example:

```
LD HL, (CHADD) WHERE CHADD IS 23645
LD (TEMP), HL SAVE IT IN SOME PLACE
LD (CHADD), 40000 SET CH ADD to 40000
CALL 15363 CALL TR-DOS AS FROM BASIC
LD HL, (TEMP)
LD (CHADD), HL RESTORE CHADD CONTENTS
RET
```

## H. UTILITY PROGRAMS

### H.1 BACKUP

It is necessary, in many cases, that your files need to be duplicated to another disk for security reason. This program allows you to duplicate all the files (including the disk password) in a disk to another disk for a SINGLE drive user.

You will need a (newly) formatted disk with no files on it. Any files on this disk will be overwritten when this program is executed.

Assuming that the password is BLUEPETER on the disk where there are a number of files

To execute this program, type

*RUN "backup"*

You will get the following display:

```
          *BACKUP 2.3*
    © 1984 TECHNOLOGY RESEARCH LTD
PASSWORD FOR SOURCE DISK:
BLUEPETER
INSERT SOURCE DISK THEN PRESS Y.
Y
INSERT DESTINATION DISK
THEN PRESS Y
Y
```

Because of the RAM capacity of the Spectrum, only approximately 24 Kbytes of data can be duplicated at one time. That is to say, for a disk with more than 24 Kbytes of data to be duplicated, it will require several operations of the above process.

NOTE: If you wish to abandon the program before it is executed, press EDIT key.

### H.2 COPY

This facility allows you to duplicate programs/data from one disk drive (source) to another disk drive (destination). While you are using this program you can also execute other D.O.S. commands (see below) which are described in Section C.

To execute this program, type

*RUN "copy"*

The display on screen will be:

```
          * COPY VER 2.3 *
    © 1984 TECHNOLOGY RESEARCH LTD.
COMMANDS ARE:
CAT
NEW "newfile", "oldfile"
ERASE "filename"
MOVE
COPY "newfile", "oldfile"
RETURN
```

A\*

You will notice that A\* is issued rather than A>. It is to remind you that you are in COPY MODE.

Example 1

If you are copying a file called "Jenny" from disk drive A (source) to disk drive B (destination) and you would like to give a new file name "Jacky" to it, then type

*A\* COPY "B:Jacky", "A:Jenny"*

Example 2

If you are copying all the files from disk drive A (source) to disk drive B (destination), then type

*A\* COPY "B:\*", "A:\*"*

If there is a file with the same name existing on disk B already, you will have the following options.

OVERWRITE EXISTING FILE (Y/N)

### H.3 FORMAT

As described in B.2, this Utility program allows you to format a new disk and to check for any disk errors (i.e. bad disk).

To execute this program, type

*RUN "format" CODE*

There are 3 options:

a. **F** for format

If you like to see a working example, turn to section B example B.2.

b. **V** for verify

This option will check for disk error (i.e. bad disk) without destroying the data that you have on the disk.

c. **Q** for quit

When you have finished formatting or verifying your disk, you can use this option to leave the FORMAT environment.

### H.4 SCOPY

This program allows you to copy a single file from one disk to another disk for a SINGLE disk drive user. While you are using this program you can also execute other D.O.S. commands (see below) which are described in Section C.

To execute the program, type

*RUN "scopy"*

The display on screen will be:

```
* SCOPY VER 2.3 *
© 1984 TECHNOLOGY RESEARCH LTD.
COMMANDS ARE:
CAT
NEW "newfile", "oldfile"
ERASE "filename"
MOVE
COPY "newfile"
RETURN
```

A#

You will notice that A# is issued instead of A>. It is to remind you that you are in SCOPY MODE.

Example:

If you are copying a file "format", then type

*COPY "format" CODE*

The display will be:

```
INSERT SOURCE DISK THEN PRESS Y
Y
INSERT DESTINATION DISK
THEN PRESS Y
Y
```

When the above process is completed, it will return to

A#

## I. ERROR MESSAGES

If D.O.S. commands are from BASIC or Machine Code programs, then D.O.S. error messages will not be issued on the screen. Instead, they are stored in the Z80 Register Pair (BC) and they are in code. The key to decipher the code is:

0	-----	No errors
1	-----	No files
2	-----	File exist
3	-----	No space
5	-----	Record number overflow
7	-----	Disk errors
8	-----	Syntax errors

To obtain the error code, set a variable equal to the D.O.S. commands. The variable will take on the value of the error code on the completion of the D.O.S. command.

Example 1:

```
LET A =USR 15363 REM:CAT
```

Example 2:

A simple program illustrating the use of this error code:

```
10 CLEAR 65367
20 LET ERR=USR 15363:REM : LOAD "COPY" CODE
25 REM ERROR CODE IS RETURN IN THE VARIABLE ERR
30 IF ERR=1 THEN GO TO 100
35 REM IF ERROR CODE NOT = 1 THEN THE FILE CODE IS NOT ON THE
   DISK
40 RANDOMIZE USR 32768
50 RANDOMIZE USR 15360
100 CLS
110 PRINT AT 10,1;" ""COPY"" CODE NOT ON DISK"
120 STOP
```

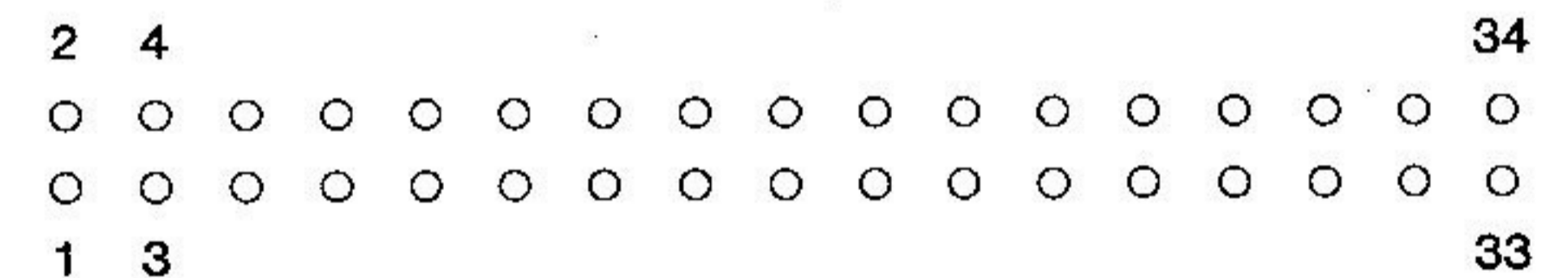
## J. PIN CONNECTIONS OF THE DISK DRIVE CONNECTOR

The disk drive connector (see Diagram 2) is designed to be Shugart compatible, and the pin connections are detailed as below:

OV --- 1	2 ---
OV --- 3	4 ---
OV --- 5	6 --- Disk drive D
OV --- 7	8 --- Index
OV --- 9	10 --- Disk drive A
OV --- 11	12 --- Disk drive B
OV --- 13	14 --- Disk drive C
OV --- 15	16 --- Head Load (Motor on)
OV --- 17	18 --- Direction
OV --- 19	20 --- Step
OV --- 21	22 --- Write Data
OV --- 23	24 --- Write Gate
OV --- 25	26 --- Track 00
OV --- 27	28 --- Write Protected
OV --- 29	30 --- Read Data
OV --- 31	32 --- Side 1
OV --- 33	34 ---

**DIAGRAM 2**

**Pin connections of the disk drive connector  
(Front View).**



## K. GUARANTEE

This Disk Interface is guaranteed by Technology Research Limited for a period of twelve months from the date of purchase against material defect and bad workmanship.

The faulty Disk Interface will be repaired or replaced with similar model during this period at the discretion of Technology Research Limited. The repaired or the replaced model will be guaranteed for a period of one month or the rest of the unexpired guarantee period whichever is longer.

The guarantee does not cover defect caused through accidental damage, misuse or wear and tear. The guarantee is void if any attempt has been made by persons not authorised by Technology Research Limited to dismantle or repair any part of the Disk Interface.

In order to claim the guarantee you must return to Technology Research Limited within 14 days of purchase a completed registration form with the purchase date and dealer's stamp. The Disk Interface must be returned at your own expenses to Technology Research Limited properly protected and insured against damage in transit together with a brief description of the nature of fault.

The guarantee does not affect your consumer rights under the statutory law.

The guarantee is only valid in the United Kingdom.

Ref. no



## NOTES

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What sections of the document were especially useful to you? \_\_\_\_\_

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\_\_\_\_\_

How could material be presented to be more helpful to you? \_\_\_\_\_

\_\_\_\_\_

READER'S NAME: \_\_\_\_\_

JOB TITLE: \_\_\_\_\_

COMPANY: \_\_\_\_\_

ADDRESS: \_\_\_\_\_

\_\_\_\_\_

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