USER MANUAL SUPPLEMENT FOR DISCOVERY VERSION 2.2

Version 2.2 retains all the features of 2.1 and has the following additions.

1.   Compatability with the 128K Spectrum.
All commands may be used in either 48K or 128K mode. Discovery commands entered in 128K mode must be typed in full in the same way as Spectrum commands are.

2.   Ram Disk.
The extra Ram in the Spectrum 128K may be used as a Discovery ram disk. It can be used to store programs or data files in the smae way as a normal disk and is accessed as drive 6. To initialise it use the command FORMAT 6: "ram disk". Drive 6 may be used in either 128K or 48K mode provided the following methods are used to move between modes.

To enter 48K mode:-
        PRINT USR 0

To enter 128K mode:-
        10 DATA 1,253,127,175,243,237,121,195,234,0
        20 FOR J=23296 to 23305: READ A: POKE J,A: NEXT J.
        30 PRINT USR 23296
        RUN

3.   CLEAR command.
There are 2 new forms of the CLEAR command.
        CLEAR LINE   <line 1>, <line 2>
removes all basic lines from < line 1 > to <line 2> inclusive.
        CLEAR DATA <variable>
removes the basic variable. <variable> may be either a simple variable or an array, in which case the name should have () after it, eg CLEAR DATA A (). These commands are particularly useful when overlaying parts of basic programs from disk or ram disk.

4.   D channel.
When using the command MOVE "d": <drive 1> TO "d": <drive 2> you will be asked if you wish to destroy the data on <drive 2>, press the 'y' key to continue the backup in the usual way.

5.   T channel.
When the T channel is closed it will now send a carriage return sequence.

6.   Drive 4.
Drives 2 and 4, corresponding to the right-hand drive on a 2 drive system, may be used in the same way as drives 1 and 3 are on the left-hand drive.
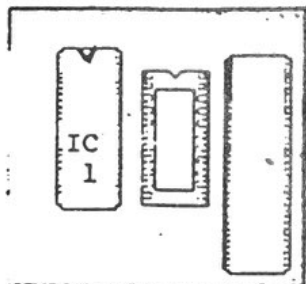
7.   Parallel port as input device.
When reading data into the parallel port, the ready line is nowset in the following manner. After the command OPEN#4: "b" IN if INKEY$#4 is empty then the port is set ready to receive, if INKEY$#4 contains a valid character then the port is set busy. Note this has no effect on the port when it is used as an output device, ie when using it with a printer.

INSTRUCTIONS FOR FITTING 128k COMPATIBLE DISCOVERY SOFTWARE

In order to fit the eprom you will first need to remove the outer casing of the Discovery unit which is held in position by five retaining screws.

1   Disconnect the unit from the power supply.

2   Remove the Philips screw which is located at the centre of the rear panel beneath the wording "MADE IN GREAT BRITAIN".

3   Gently turn the unit upside down and remove the four Philips retaining screws positioned on the outer edge of the casing.

4   With all five screws removed turn the unit over again and allow it to stand on its rubber support feet. You should now be able to slide the casing backwards along the chassis. Take care to ensure that the casing does not foul the joystick connector and remember to retain all five screws for re-assembly.

5   With unit now open and the blanking plate removed you will see the eprom chip in IC 1.

    Taking care, gently remove the old eprom, replace with the upgraded version ensuring the notch is in the same position, ie facing North as below :-

6   When the new eprom is fitted slide the case back onto the chassis and secure with the five screws you removed at the start.