ACCESSORIES & SUPPLIES

FOR THE

VIC 20

PERSONAL COMPUTER

FROM

STACK

STACK

with the

ANALOGUE JOYSTICK!

Programming the VIC-20 ?
Why not write your very own games!

The ANALOGUE JOYSTICK will add another dimension to the games you write. It gives you full Joystick control in ANY direction - and it fires too!

Move your spaceship in a figure of eight or loop the loop - you aren't restricted to up, down, left, right any longer!!

STACK

Have YOU got your STACK STOREBOARD yet?

Expand your VIC-20 memory from a youthful 5k to a mature 32k. Supplied with 8k fitted, the STOREBOARD allows you to build up the size of your VIC-20's memory, whenever you NEED more memory or, whenever you can AFFORD it! This means you get a FLEXIBLE system that SAVES YOU MONEY!!!

Compare these prices*...

Stack 8k Storeboard	49.00	Commodore 16k Cartridge	65.17
1st 8k Ram Pack	21.00	8k Cartridge	39.09
2nd 8k Ram Pack	21.00	3k Cartridge	26.04
4k Ram Pack	11.00	4 slot Motherboard	29.00
27k Expansion	102.00	**27k Expansion**	159.30
TOTAL SAVING	57.30		

- Upgrading your STOREBOARD is easy! Simply remove the detachable cover and pop in the chips provided with Stack's 8k or 4k RAM PACKS.
- **ADDED FEATURE!** - A socket is provided on Storeboards to allow you to use EPROMS or ROMS in addition to your extra memory. Once again you can save £££'s by using VICKIT utility roms on your Storeboard instead of the more expensive cartridges.

*Prices exclude Value Added Tax and are correct at the time of going to press.

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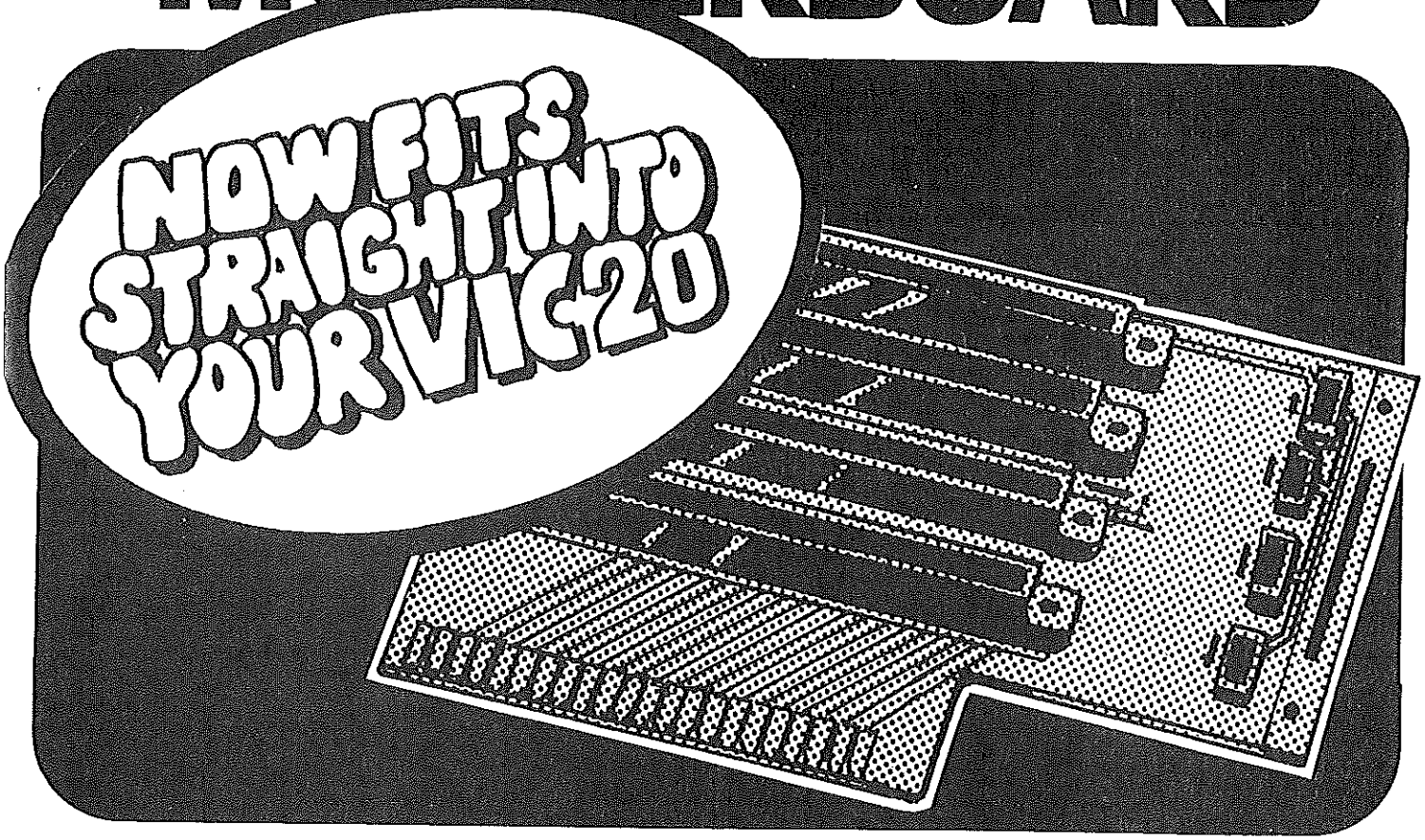
4 SLOT MOTHERBOARD

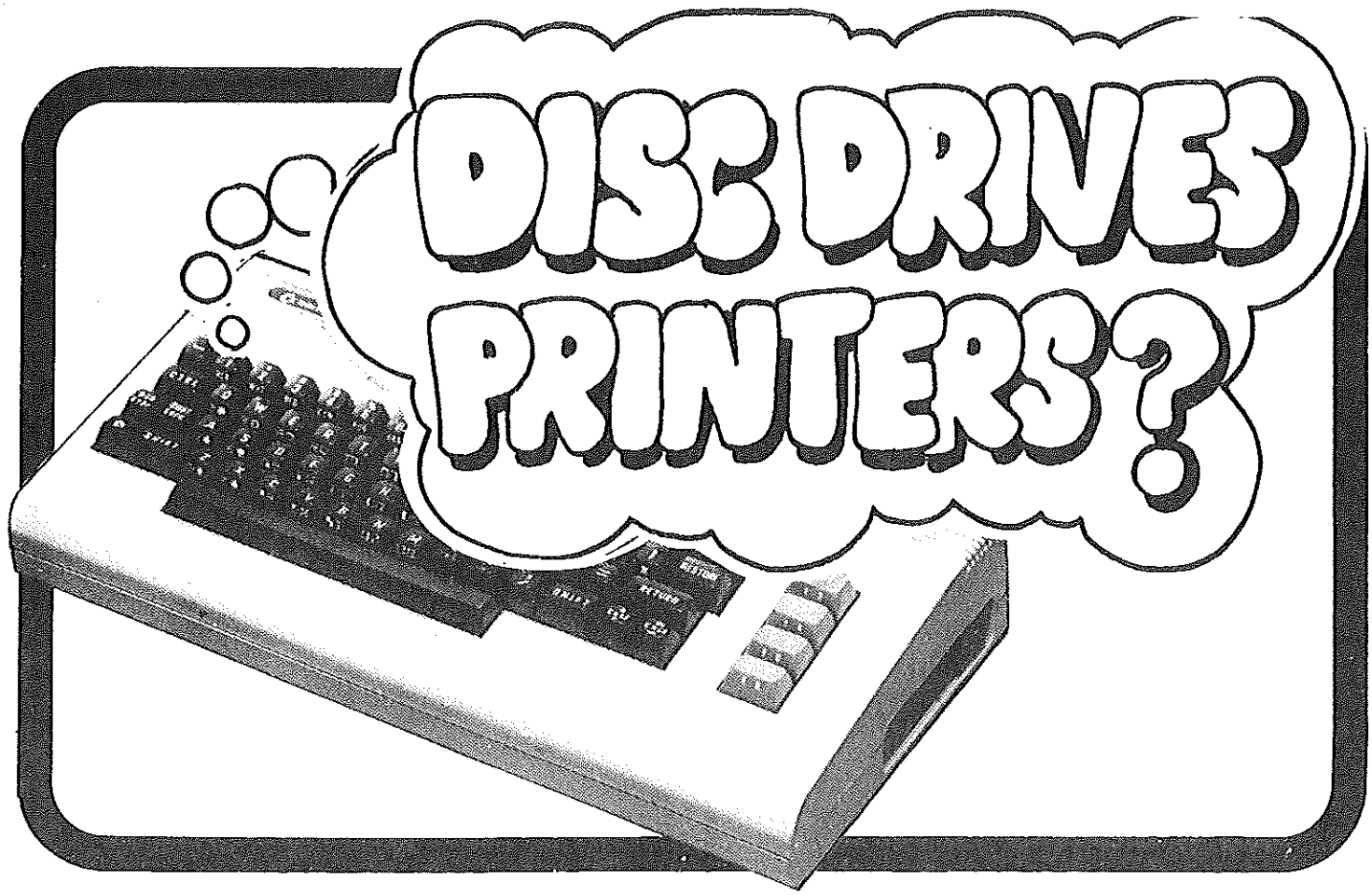


USE UP TO 4 CARTRIDGES AT THE SAME TIME!

The 4 SLOT MOTHERBOARD fits into the cartridge port and allows you to leave four cartridges in place switching on and off as required. No more wear and tear on your valuable cartridges! And it's available at a sensible price too!

PSST! Don't forget if its extra memory you need, the STOREBOARD is the most economical pack of all!

STACK



Centronics Interface

The Centronics Interface consists of a cable and software on cassette which will allow a centronics style parallel printer to be used with the VIC-20.

RS232 Interface

The RS232 Interface is a device which fits onto the VIC's user port and can be connected to an RS232 serial device, such as a printer, using a cable.

IEEE-488 Interface

A cartridge to allow your VIC-20 to use Commodore disc drives, printers or other devices which use the Commodore IEEE-488 standard.

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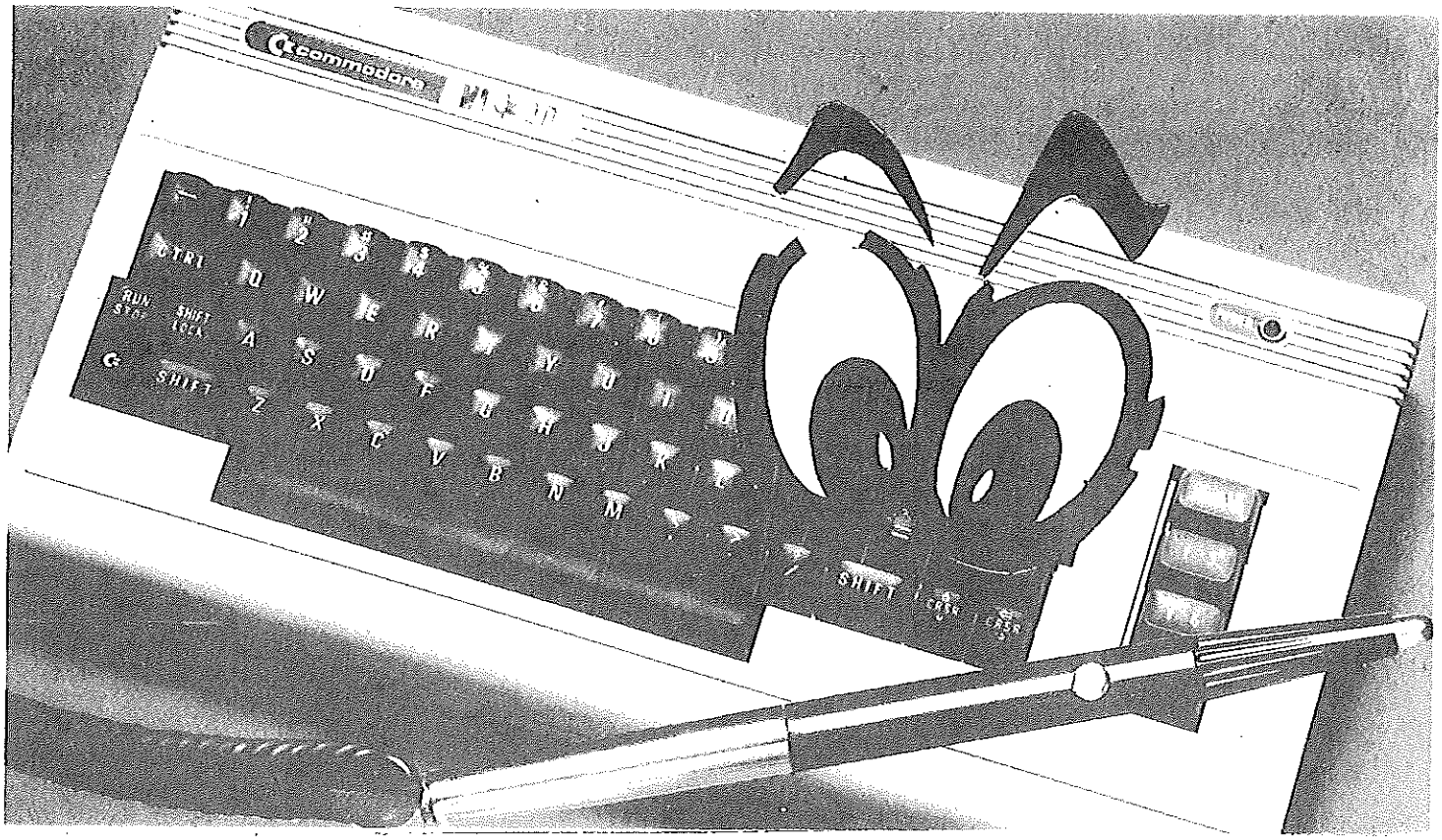

GIVE YOUR VIC EYES!

Hold the LIGHT PEN like a normal pen, point it at your TV screen and the pen tells your VIC-20 what it sees!

Instead of pressing keys, touch the screen with your LIGHT PEN and move your man in CHESS, create LIFE, play OTHELLO, take in DRAUGHTS, play GO. Point the pen at your man and move him to his new position. Many games are already available for the LIGHT PEN any many more are being developed. Your can write programs which allow you to read with your LIGHT PEN from the TV screen or place images or words on the screen. eg. From a long list on your screen use the LIGHT PEN to choose the faces and figures you want.

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Lightpen SOFTWARE

OTHELLO
Pit your wits against your partner in 16th Century Venice - a battle for territorial dominance using the Light Pen to make your move.

SEEK & DESTROY
You are in command, protect your fleet - but you still have to seek and destroy the enemy subs and battleships.

VIC SIMON
Are you quick on the draw?
A true test of your Simonskills, its you and your Light Pen versus your VIC.

LIFE
Form the "membranes" of cells at random or in the shape of your choice using the Light Pen. Start their development and watch...an endless myriad of life forms appear and develop on screen.

GO
A traditional Oriental game of strategy. Surround your opponents and you've captured them. An extremely skilful Light Pen game.

DRAUGHTS
(requires an additional 3k memory)
The classical game with flashing pieces, kings, optional "forced capture", colour and sound. Played on your TV screen with the Light Pen.

CONCENTRATION
The well known "memory contest" card game. Touch the face-down playing card with the pen and it appears face-up. Try and pair it with the same value card. If successful the pair disappear from the screen. If not, try again with other cards. Try and remember which card is where as you try to pair! The pack is repositioned after each game.

LOST IN THE LABRINTH
Experience the frustrations and torments of an explorer lost in a labrinth of tunnels. Only the Light Pen can get you out safely.

CROSSWORD TWISTER
A crossword with a twist! Everchanging letters thrown at you to fit into your crossword panel.

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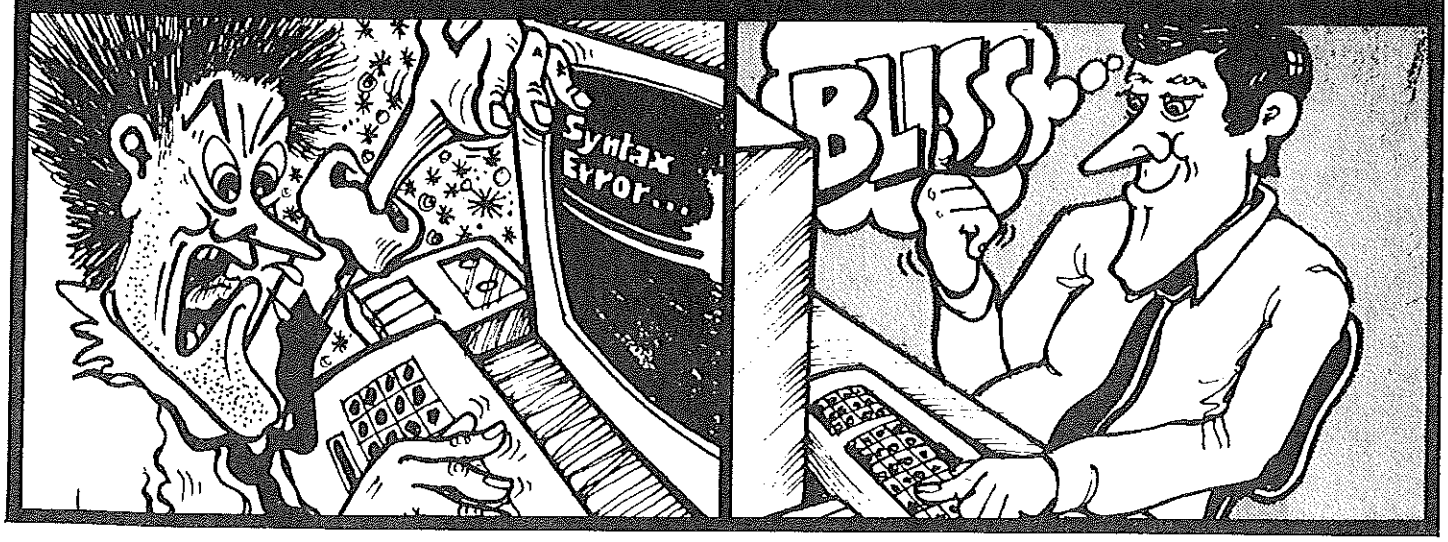
SPOT THE DIFFERENCE



...STACK make the difference - clever cartridges to make life easier for you and your VIC...

ALL VICKIT'S NOW AVAILABLE ON CARTRIDGE!!

Let us do the spade work!...

With these simple-to-use commands, HELP, AUTO, TRACE, FIND, DELETE, DUMP, OFF, RENUMBER, STEP, VICKIT 1 will take a lot of the hard work out of programming. Each time you use the programming aids of VICKIT 1 you'll save yourself a lot of time and effort!! And it'll make programming on your VIC-20 much more fun!

Available on Cartridge or on Eprom

Super Graphics!...

"Manoeuvre your spaceship (designed by you), **through the meteorite storm** (created by you). **Beware being hit, otherwise its... ZAP!!... WHOOSH!!** (explosions especially designed by you!).

For the most exciting colour graphics around, choose VICKIT 3. You'll get 20 easy-to-use commands to help you create your very own super graphics... and at a bargain price too!!

Available on Cartridge or on Eprom

The Best of Both Worlds!...

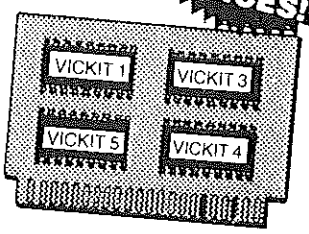
To give you the best value for money we've put together....ALL the programming aids of VICKIT 1 PLUS the best of the Super Graphics commands making VICKIT 2 the most economical cartridge around!!

Available on Cartridge or on Eprom

NEW LOWER PRICES!

Save ££'s with this very clever cartridge!

With the MULTI-ROM CARRIER you save the expense of buying several cartridges...simply pop your VICKIT's (or other Roms) into the empty sockets provided and soon you'll have the one cartridge with the power of FOUR!!



*standard size cartridge shown without covers
*supplied without roms

Hi-Speed Cassette Operations!...

Tired of waiting around for your programs to Save or Load on cassette? Now with VICKIT 4 you can SAVE, then LOAD or VERIFY all but the smallest programs at up to 7 TIMES FASTER than before.
Ever wondered about Machine Code programming?
Well now is your chance to give it a try!
Part of the deal with VICKIT 4 is a MACHINE CODE MONITOR and TOOLKIT.

Available on Cartridge or on Eprom

Cut through the Language Barrier!...

A superior 6502 ASSEMBLER for machine code enthusiasts to help you produce FAST-RUNNING programs. VICKIT 5 removes the tedium from machine language programming by allowing you to write your code in a special form known as 6502 Assembler Language. VICKIT 5 then performs all the laborious calculations normally associated with machine code.
(Must be used with VICKIT 4)

Available on Cartridge or on Eprom

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SUPERCHARGER PLUS

PROGRAMMING AIDS
SUPER GRAPHICS
ERROR DETECTION
29 GREAT FEATURES
PACKED INTO ONE CARTRIDGE!

We have put together VICKIT 1, VICKIT 3 and the 3K RAM needed for graphics in one cartridge, to give you the most helpful time-saving device around for your VIC-20.

3K MEMORY CARTRIDGE

A standard 3K RAM cartridge with a difference.....the cartridge connector of the VIC-20 is reproduced on the back of this memory pack. This makes it ideal for use with other cartridges.

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PLUS... SOME OTHER USEFUL ACCESSORIES ...

VIC-20 dust cover
C2n cassette deck dust cover
VIC to TV extension cable (2 metres)
Blank cassettes
Tape head demagnetiser
Tape head cleaning tape
Tape library case
VIC printer ribbons
Audio/Video/TV port plug
Audio/Video/TV port socket
Audio/Video/TV port splitter
Printer/Disk serial port plug
Printer/Disk serial port socket
Printer/Disk serial port splitter
Cassette port connector (socket)
User port connector (socket)
Hood for user port connector
Memory Expansion port connector (socket)
Diskettes, Printer Paper
in fact all you need for your computer!

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for further information contact your nearest dealer...

Chromasonic Electronics
48 Junction Road
Archway, London N19

Maystar Micros
62 Peach Street
Wokingham, Berks.

Microchip
46-48 St. George Street
Winchester, Hants.

Microchip
27 Bedford Place
Southampton, Hants.

J.A.D. Integrated Systems
21 Market Avenue
Plymouth, Devon

Sumlock Electronics
198 Deansgate, Manchester 3.
Tel: 061-834 4233

Cambridge Microcomputers
25 Gwydir Street
Cambridge 1

Preston Computer Centre
6 Victoria Buildings, Fishergate
Preston, Lancs.

Bennetts (Dereham) Ltd
24/26 Norwich Street
Dereham, Norfolk

Typewriter Centre
7 Leicester Street
Walsall 1
Tel: 92-27589

Typewriter Centre
52/53 Bromsgrove Street
Birmingham 5
Tel: 021-622 5385/7

Typewriter Centre
52 High Street, Erdington
Birmingham 23
Tel: 021-382 0185

Computer Supplies (Swansea)
82 Gower Road, Sketty
Swansea SA2 9BZ
Tel: 0792-290047

First Byte Computers
10 Castlefields, Main Centre
London Road, Derby
Tel: 0332-365280

P&L Computers/PL Cash Register
58 West Street, Dunstable
Beds. Tel: 0582-607250/607262

Typewriter Centre
92/94 Dudley Road
Birmingham B18 7QN
Tel: 021-455 9111

Typewriter Centre
46 High Street, Kings Heath
Birmingham B14 7JZ
Tel: 021-444 7349

Also available throughout the U.K. from Computer Dealers, good Department Stores and other VIC-20 suppliers.

STACK also have accessories and supplies for Atari, Dragon, BBC, Commodore 64 - in fact most popular micros.

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STACK COMPUTER SERVICES LIMITED
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