# ISSUE 5 AMSTRADISCULTACT JAN 1994

## COMMODORE OPC PRINTER 9

By Kieth Cambell

Connodore HPS 1270, The is of documents, programs, or illustrations allows you to generate printed copies of documents, programs, or illustrations that you create with your computer. Using a series of microscopic jets, the printer sprays ink onto the paper in the shape of the character you designate. Because it has fewer moving parts than other printers it is much quieter and should be more reliable in the long term.

The first thing that struck me about this printer was its design. it is small and compact, about the size and shape of a small box of cornflakes lying on its side, it lacks a little streamlining and style but who's complaining if it means plenty of free space on the desk. It is cream in colour (good news for the Plus owners) and comes with a printer cable, useless if like me you have a 6128 or a 464, but if you have one of the plus models the cable is compatible, otherwise the standard CPC to printer cable fits okay. It also comes with an AC Rdaptor and a spare printer cable fits okay. It also comes with an AC Adaptor and a spare Print Head (ink cartridge).

Characters can be printed in Draft or HLQ mode. In Draft mode the MPS 1270 prints at 160 cps, this is a little bit dotty if you look very closely at the print out. But I find that this is good enough for most letters and listings etc. In NLQ mode the printer prints much slower about 70-80 cps and more dots per character. Because the characters are sharper and clearer, NLQ mode is better for important letters and graphics. and graphics.

This printer has two industry-standard character sets for you to choose from, Epson FX and IBM Proprinter. For the Amstrad you should select the Epson FX character set, which is selected by setting the eight dip switches located under the top cover. For Epson & English they should be set to the following: 1 on, 2 off, 3 on, 4 on, 5 off, 6 on, 7 off and 8 off.

set of Printer The MPS 1270 has a Control Commands that allow you to Syri take advantage of built in printer Cher features even if you do not have any application software. Which means without ink 

BI-MONTHLY NEWSLETTER

the use of a word processor you can make words bold or underlined by using printer commands from within your own programs.

The printer commands include "control codes" and "escape codes" the control codes are for non-printing commands ie. Line feed and setting the tab's etc. The escape codes are for certain print attributes, like enlarging print, underline and bold etc. That is enough of the technical stuff, I am a user not a programmer. "control

Now let's look at it from my point of view as a user. What made me choose this printer ?

What do I like about it ?

Everything really, it's quiet,fast it's easy to use, it makes the tea (just kidding), it only takes about 10 seconds to change the printing head/ink cartridge. The printer can handle all sorts of paper, fan fold, tractor fed paper, and single sheets up to 9 inches wide, it will even print on envelopes up to A4 size. But the most important thing I like about it is the quality of printout. You might say I an happy with this little printer, even if it is a Commodore.

What don't like about it ?

Nothing, it's Great (no I don't work for Commodore).

Here is a little tip I would like to pass on, the printing head come ink cartridge costs about 15, and they do not last very long if, like me, you use Powerpage and Advanced Art Studio. Use rowerpage and novanced nrt Studio. Lonmodore say that they can not be re-filled, NOT 50, just get a Syringe **\$** Needle from your local Chemists and a bottle of ink, inject the ink into the rubber bladder inside the ink cartridge and put a dab of-

PLEASE NOTE

This issue brings to a close the Bonzo Data base sheets briging the total transfers so far to 1422.Keep sending. Also the last of the AA Harlies Suite cheets. My

Hiso the last of the HH Hacking Guide sheets. My sincere thanks to Nigel Mells and Barrie Snell for these articles. Also thank you to Martin Cossins -Bonzo Series Angela Cook - Games Dept and other articles. Barrie Snell - printer article and the you all for your belo

superglue on the hole. This will cost you about 5 or 10p a time and takes about two minutes, much better than paying full price each time.

So there you have it, a very good little printer, if I was to rate it between one \$ ten I would have to give it an eleven !

### \*\*\*\*\*\*\*\* KIETH CAMPBELL\*\*\*\*\*\*\*\*

## Peter Campbell INTERVIEW

#### By Angela Cook

Peter Campbell ... Who's he... Oh ! isn't he the one that sung with Peter. Paul and Mary. No. Peter Campbell is the one that runs CAMPERSOFT, that brilliant Company up in Scotland of Video-Master and Microdesign fame

I decided to talk to Peter, but could not afford the phone bill, so summoned the dark spirits in my Crystal Ball to make a temporary line instead. (Look out she's temporary line instead. (Look been at the wine gums again...ED)

Peter owns two 6128's one being a plus. For a ninute afterwards I would have sworn that I heard him say he also has a PC 285, but the Crystal line went funny at that point, never can rely on these things



things.

The dark spirits asked him why he decided to start doing what he does. Peter said he was dissatisfied by the programs by the programs on the CPL, as they were, and set about improving the situation. He said his aim for Campursoft was to continue to expand. He is working on a Applemac Type WIMP system that will work on 6128's expanded 464's. This will run from 2 ROM's, and will even operate most ROM commands with no need to reset. Also in the pipeline is MICRODESIGN TWO for 6128's only....Release date March-April. He did also mention something about bigger profit margins of course. (Till he got at your wine gums see the advert...ED)

Peter thinks the CPC is a superb home computer, his favorite software is ZMP, which is a Comms package. Discology, ATF, Elite, and his favorite piece of hardware is the ROM Box. His favorite colour is Black. Peter has his walls painted black in his Computer-business room.

Computer-Dusiness room. Now before you all say Yuk, it is supposed to be quite nice. Peter has put up pictures created with Microdesign on white boders, apparently very nice. I asked Peter about the supposed demise of the CPC. He had only one word, it was part of the male species anatomy. He think it is quite untrue. He says that whatever happens, fanatics will keep the CPC moine. CPC going.

and to you all for your help (MICRODESIGN 2 Will we get a review ?..ED)

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Well that is easy to answer. As I am out of work at the moment and I do not have between 150 and 250 to go into a shop and buy a printer, (no I did not steal it.) I looked through my wife's Kays book and there it was £179.99 for just 38 weeks at 4.75, and at that price I could afford it.

E



BETTER PROGRAMMING by BARRIE SNELL

:-...either numbers or letters (or a mixture of both), and how many of those characters are allowed in the number or word. We have to allow the user to cancel the last character(s) and to detect when the (EMTER) key is pressed to show that the user has finished.



#### Let's ask a guestion.

Last time we looked at the problem of how to get single-keypress inputs from the user into the computer's memory, and came up with a simple subroutine to solve it, with some associated stored strings necessary, to prevent crashes'. For illustration, let's ask the user to input a name with letters only, and only allow a maximum of 9 letters. We need to tell the subroutine a few things. These 'things' are generally known in computer-speak as 'parameters'. Two of these parameters will be where to LOCATE the area of the screen at which the keyboard input will be shown. Let's say that 'so far in on the line' is variable 'x' and the actual screen-line from 1 to 25 is 'y'. the

Another parameter is the maximum number of characters that are allowed to be input by the user in his answer. Let's denote this by the variable 'i'. Yet another parameter which the subroutine needs to know is which particular ok\$() holds the allowed characters for the user keypresses. Represent this by 'ok'.

Now looking at the allowed keypresses, we only want letters from A-Z. Can you see now how these subroutines can complement leach other? If you were to write a 'confirmation-code' for each question individually then it would take a tremendous amount of coding for a medium sized program ( paradoxically making it into a very large program ).

#### The question.

the

"Name :- (3 letters min) -----" ( 9 '-' symbols for the template )

#### The parameters.

Let's go for Hode 1. Where to print the reply is Locate 25.5. So x=25, y=5. Let the 9-Letters maximum be i=9. Let the ok\$, that is the allowed single keypresses that are allowed to make up the reply be ok\$(1)="RBCDEFGHIJKLMMOPGRSTUVWXY2", therefore we set ok=1.

ok=1. Into this ok\$(1) we need to incorporate the CHR\$(13) for the (ENTER) key and CHR\$(127) for (DEL) so that we now modify ok\$(1) to be as follows :-ok\$(1) = CHR\$(13) + CHR\$(127) + "RBCDEFGHIJKLMNOPGRSTUVHXYZ". Lower-case letters for a name can be handled as will be illustrated later on.

#### INTO ACTION

Type this in and Run it, and play about with the variables or 'parameters' and see what effect they have, when altered by you. The multiple keypress subroutine shown in the example program here can be compressed, and I have expanded it here simply for explanatory purposes.

inform in the initial ise in the original response to the question from the initial ise in the original response to the question from the initial ise in the original response to the question from the initial ise in the original response to the question from the initial ise in the original response to the question from the initial ise in the initial ise in the original response to the question from the initial ise initial ise in the original response to the question from the initial ise ise initial ise initial ise initial ise is initial ise ise initial ise ise initial ise ise initial ise is initial ise ise initial ise ise initial ise ise initial ise ise is initial ise ise initial ise is initial ise ise is initial ise ise is initial ise is is initial ise is isent is initial ise is initial ise is is initial ise ise isent is initial ise is isent is isent is ise is initia

detail later on. <u>Summary</u> So what have we got so far? We need to tell the guestion and subroutine where on the screen to print the question and where on the screen to accept the user's reply. Also We have to tell it what keyboard characters to accept. Here on the screen to accept the user's reply. Also We have to tell it what keyboard characters to accept. Here on the screen to accept the user's reply. Also We have to tell it what keyboard characters to accept. Here on the screen to accept the user's reply. Also We have to tell it what keyboard characters to accept. Here on the screen to accept the user's reply. Also We have to tell it what keyboard characters to accept. Here on the screen to accept the user's reply. Also We have to tell it what keyboard characters to accept.

He'll need that subroutine again this time where we look at getting multiple- keypress inputs from the keyboard. i.e. for every character of the multiple-keypress subroutine we shall CALL the single-keypress subroutine for verification upon return.

These little routines are for those of you who may be just starting out in writing your own programs, to save you from doing repetitious memory-consuming coding in FLL parts of the program where questions need to be answered. We are going to send all of the questions to a single subroutine. You can experiment and make them more sophisticated, depending on your skill total level.

#### MULTIPLE-KEYPRESS INPUT

You will need this routine for, say, asking what a player's name may be, or asking for a 4-digit number representing a year from 1 to 9999, perhaps.

Planning Ahead

What are the things we need to think about before we even begin to start writing any code in BASIC at the COMPUTER

Obviously we need to know the number of characters allowed in the user's reply so as to obviate any mess-up of your carefully-planned screen layouts. It is no good asking the user for, say, a 3-lettered password then allowing the user to input up to 255 characters of gibberish and overwriting some of the carefully arranged screen. Also here you have asked for letters, so if the user presses any number keys, these should be ignored.

What other things do we need to think of? Obviously we have to detect when the (ENTER) key is pressed, indicating that the user has finished inputting from the keyboard, so this control character, CHR\*(13), must be included in the ok\$() as outlined last

Can you think of anything else it needs to know? What if the user pressed a wrong letter-key or a wrong number-key by mistake and wanted to delete if? Simple: We allow for this by including the control-code CHR\$(127)=(DEL) in the relevant ok\$(). Any more? YES, there is one more important factor when you want the user to input numbers only, and some of you may be way ahead of me on this, but for those of you who aren't I'll treat this separately in more detail later on. YB: 99 REM Single keypress subroutine XXXXX 100 v=0: WHILE v=0 102 k\$="": WHILE k\$="": k\$=UPPER\$(INKEY\$): WEND 104 v=INSTR(ok\$(ok),k\$): WEND 105 RETURN 198: 199 REM Multiple keypresses subroutine XXXXX 200 n\$="": LOLATE x.y: PRINT STRING\$(i,"-"):: LOCATE x.y 204 60SUB 100

BETTER PROGRAMMING continued.....

We needn't be concerned about how the single keypress subroutine works because it was covered in detail last issue, but suffice to say that it is inepeatedly called by line number 204 of the multiple keypresses subroutine, and it returns k\$ as its single character output with which to build up n\$ for return to the main program. It also returns a variable, v, whose value depends on what key has been pressed.

We know the composition of our ok\$(1) which has as its first character [HR\$(13) to detect if the (ENTER) key was pressed; if so, then v=1. The next in ok\$(1) is CHR\$(127) to check for the (DEL) or back-space key being pressed; in this case v will be returned with a value of 2. Positions 3 to 28 of ok\$(1) contain all the letters of the alphabet, so if any letters are pressed, v will be from 3 to 28.

#### HOW IT WORKS

Line 200 resets n\$ to contain nothing, then 9 minus symbols are printed for the template to aid the user, then the 'invisible' cursor is repositioned to where we want to accept and display the keyboard input.

Then in line 202 a FOR-NEXT loop is begun, starting with a=1. The value of the variable 'a' determines which character-number in the template is being pointed to and where the next letter in the reply will be printed, and will always be one more than the number of letters already on display.

Line 204 then calls the single keypress subroutine, and on return line 205 will be acted on. Initially, a=1 so if the user presses (ENTER) or (DEL), then n\$ is empty and the program goes back to line 204, and so on, until the user's first keypress is a letter from A to Z.

The program now drops through to line 208. Here the program checks to see if the maximum number of characters allowed have been entered already and another letter has been pressed. There is only room in the template for 9 letters in the present case, so a= i+1 = 9+1 =10 and again it goes back to get another single keypress, in this case, expecting either of the (ENTER) or (DEL) keys.

To get to line 210 it means that AT LEAST one of the letters from A to Z must be in the reply, n\$, and line 210 checks to see if the (ENTER) key was pressed. If it was then v=1 and so the value of 'a' in the FOR-NEXT loop is forced to be the terminating value, and line numbers 212, 214 and 216 are dropped through and the user input, n\$, is returned to the main program by line 218.

Looking at line number 212, if the (DEL) key IS pressed, there must now be a letter or letters on the screen to delete, and the value of 'a' must be anything from 2 to 10, so line 214 prints a back-space and a '-' lover-writes the letter to be deleted, and another back-space ensures that the 'invisible' cursor is in the correct place to accept another keypress. Then the value of 'a' is reduced by 2 and the offending letter is chopped off the end of the present n\$ and line number 214 is dropped through and 'a' is increased by 1 and off we go back to line 204 for the next off keypress.

If none of the above conditions apply, the letter contained in k\$ is printed on the screen and added onto the end of the present reply of n\$, then line 216 loops back to line 204 to get another keypress.

Line numbers 205 and 208 must be where they are, but the order of lines 210 to 214 are purely arbitrary, and the order presented here is as good as any other. Note particularly the 'drop-through' principle that I have employed in the subroutine. For example, there is no need to write '6010 216' at the end of line numbers 210 and 212 because because if v=1 when line 210 is encountered it will be acted upon, and lines 212 and 214 won't be under the other hand, if v=2 when line 210 is reached, line 210 will be acted on and line 214 will be ignored. On the other hand, if v=1 when line 210 is reached, line 210 will be acted on and line 214 will be ignored. On the other hand ( 3 hands?! ) if v is neither 1 nor 2 when line 210 is encountered then lines 210 and 212 will be ignored, but line 214 will be acted upon. acted upon.

TRAKERS THE GAME (CDSG) REVIEWED LAST ISSUE, IS AVAILABLE TO CONTACT MEMBERS AT 10% DISCOUNT. = £9 ONLY SEND CHEQUE OR P.O. TO MR G.KENNEDY 32 LOSTOCK ROAD. SETULIY, SALFORD. GREATER MANCHESTER NS 214 32 LOSTOCK ROAD. SEEDLEY, SALFORD, GREATER MANCHESTER, MS 214 ST.

Look back over your own previous programs and see if you can adapt them to get rid of any unnecessary 6010's and use the drop-through principle instead.

Oh yes, I nearly forgot about what I was poing to tell you about numbers-only c

#### Unknown Numbers



Say that you have written a Birthday program which asks (among other questions) what year the user was born , or a Bank Balance program which will keep track of all your transactions over several years. Now it is UERN!! Likely that the year requested will contain 4 digits, so you can simply use my multiple-keypress subroutine as presented in this article with the variable i=4 in the main program which calls it, and then do a simple check upon return that n\$ does indeed have 4 digits and that its value is within the range of years required. What I'm really getting at here is that the 'template' will be '---'.

user the Now say that the number of digits in the number to be entered by the user is undecided and cannot be predicted with certainty. How do you know what number of template-characters to use and what value will it take initially? in take initially?

The answer is surprisingly simple.

I'll use the principle of a Database program as an example. The Database as built up so far by yourself night contain anything from 6 to 1215 records, and the user is in "Edit a Record" mode and the program asks the question "Enter the Number of the Record to Edit". How many character

Heord to Edit. How many characters should be in the template? i.e. What should be the maximum string-length that the subroutine should accept. because the subroutine should be 'universal' in the sense that you cannot re-write it for different circumstances, but that one single version should handle fiLL circumstances.

It can easily be done by the BASIC command:-INT(LO610(num))+1.

Say that you have made the variable 'num' be the number of records in your Database or the number of whatever things that you have counted so far in your own program. As a quick recap, if the maximum number that is allowed as an input is 43 then the instruction INT(LOG10(43))+1 will return a value of 2 as the template length, or if the number unknown exactly by you the programmer, but known by your program to be num=13553, using the command i=INT(LOG10(num))+1 will make i=5. Of course you will now initialise a new ok\$(2)=CHR\$(13)+CHR\$(127)+'0123456789", and make

ok=2 to tell the single-keypress subroutine to gonly accept numbers.

Beware if num=0 because what is said above will produce a non-destructive overflow' error but although your program will be allowed to continue uninterrupted your screen layout will be shot to Hell! Be careful. Well that's the end of my article for this issue but next time I might go into some sort routines, the various types and how they work.

See you all next time. ... BARRIE



AMESSIEPARTME but it is difficult, and you often get killed trying. I spoke to Simon Forrester about it, he said Titus had told him they were going to fix it. That was six months ago. Even with this small bug, it is still a brilliant and varied game." "So how did you score it ?." "Well, I an going to give the Graphics 98%. They are Superb-especially on the plus. The Sonics get 100%. The Playability gets 98%, even with the small bug. The Value is amazing.

Hello again. I hope you all had a good christmas and a happy new year. Can't think of anything else, so on with the review: PREHISTORIK II BY TITUS: DISC £15.99: CASS £10.99



GAMES DEPARTMENT-BY ANGELA COOK

PRYMPTON COTTAGE BRUNSHICK ROAD NORTHING, SUSSEX

BN11 3HQ

"Dave this game is brilliant, it is really wonderfull. It has to be the best game ever. You just have to buy it." "Why is that Angela". "ITTUS have sent me this game to review, it's called Prehistorik II. Return to Hungerland". "What's so great about it?." "Everything, the music, the sound effects, the graphics, the game play...it's totaly awesome". "Great, so tell me more Angela". "Well, when I put the game on, up comes a screen asking me to centre it. I did this and next on comes the title screen, this is a cave with all sorts of acknowledgements popping out of it. On the ordinary CPL it comes up in really bold colours". "Hat about the plus?" "In really nice pastel shades." "Any Music?" "Music, it is the best music in a game on the CPL that I've ever heard, it has a good rhythm and beat, it keeps going, and it doesn't get on your nerves either, it's so brilliant." (You can turn it off anyway ED) "So what about the graphics?" They are excellent too. So defined, so clear. Comparable to a PC or Megadrive. The background is really detailed, it's got hills, sky and rocks. The ground and bridges move as you tread on them." "Is the plus game any different?." "Sou would not believe it. It's got clouds, trees and rock formations in the foreground. It looks almost 3D." But doesn't that get in the way?". Yes, sometimes, but you can turn it off if you want". "Hell you know what they say. "Gain on the swings, lose on the roundabouts', Great graphics and Sonics are one thing. (er I make that c ED), but what about the Gameplay?". Dave this game is brilliant, it is really wonderfull. It has to

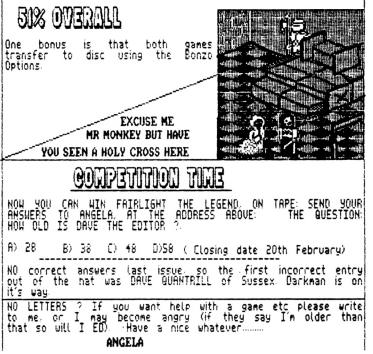
"It's got great gameplay, it's brilliant, everyone in the house loves it. You get a game with fantastic music, excellent graphics, brilliant gameplay, wonderfull effects, and paralax scrolling"....."I don't believe it, you can't possibly have all and part graphics, brilliant gameplay, wonderfull effects, and paralax scrolling". "I don't believe it, you can't possibly have all that together in a game !". "You can Dave. Oh! I haven't told you the plot yet. You are a man, aptly named Prehistorik, I call him Rick. He is the most wonderfully designed character there is. You wake up and decide on breakfast, but there is no food in the cave, arghhn. Anyhow you must go out and search for food. You know one place where there will be plenty of food, the Ogres meat locker. You have to battle through ten levels of dinosaurs, spiders, wasps. birds, and through ten levels of dinosaurs, spiders, wasps, birds, and other baddies. You club bears to death. If you jump on them you can double your score, and jump higher too." "What about lives and bonuses ?" "Well that's good too. This may sound a bit complicated. Lives are made up of three hearts. Hearts are made up with six bones. Every time an enemy touches you he takes away one of your hearts, but if you smash his brains, then he drops his bones. you collect them and you have your heart back. Bonuses are all over the place, extra food and points. For some points you can pick up joysticks and discs. I don't know what they are doing in 10.000 BC." "You can't get a game that good, you will have to send it up to me so I can take a look, and try to get some screen grabs". "I will, but have you found any bad points?". "Yes there is a small bug in the program. When you reach, a certain point, the program makes you go back over a part you have completed. You can get over it by going a different way.

"How about a second opinion from your brother Lewis ?" "I think it is brilliant. I got really far on it. owner should be without it. I gave it 99%. No plus

; NOTE: The game reviewed was the 6128 and 6128PLUS on Disc... We have not seen the 464 Version.... I have ook at it, and agree with Angela. BUY IT it's the best (EDITORS NOTE: The version. a look had FAIR LIGHT THE LEGEND By THE EDGE Tape Fairs and Boot Sales f1-f3 Computer

This Tape contains BOTH of the Review by Dave Muggeridge: if you are a platform or beat-em-up fan you will hate them The idea of the first game is to find the book of light and return it to the wizard. The game is set in, and around a 30 castle, with you in control of the main character via your

But to the wizerd. The game is set in, and around a 30 castle, with you in control of the main character via your joystick, when you press fire he draws his sword and fights. The problem solving in these games is difficult. You have to find keys, and where they fit. Find food and drink to keep your energy up. Find out about other objects; Crosses, Potions, Magic Scroll etc. and where and when to use them. You can pick up and drop just about anything. (Put a barrel on an enemy when you kill him and he can't get up). By moving plants etc. You can get other objects out from under difficult locations. The second game continues from the first. By giving the Wizard the book of light you released an evil on the land. So now get it back. This has more colour than the first story. It contains two parts. First find the wand and knife, release the captain of the ship, and sail off. In the castle you will find a Flying Carpet (limited flight), keys and other objects to work out, before finding th Wizard and destroying him. Amstrad Action gave this 81% when released. But the graphics are very jerky. Indeed slow when more than one person is on screen. The atmosphere works well. With very few sound effects. So going by todays standards would only score: ED402 CONCECURD



Make a special note of the hexadecimal number in brackets in line-reference 30 of Fig.4, in this case (8817). This will have been calculated by you using the offset value found in Fig.2. It crops up again in Fig.5 twice and it tells you that you needn't disassemble any part of the m/c of the Menu past memory location #8816.

The important parts to recognize for any MENU.BIN are the line-references 27 to 30 where it says LD A,#xx then LD HL,#xxxx then LD DE,#xxxx then CALL #Axxx. In this case you know that you are looking at the code to load the first game choice from the Menu because you got here in the first place from the information given in Fig.3. If you keep looking at more and more of the listing you won't see any more like the above so you now know that the game SEYMOUR uses the file 1.BIN only. An important point to note, however, is that you mustn't go past address 87ea because Fig.3 ref-lines 22 and 23 inform you that the code from 87eb onwards is there to load and run the second game in the Menu.

So the address to poke into for the SEYMOUR loader is obviously 8783, which at the moment contains 01. You can poke it with any number from 0 to 9 so if there is room on another disc for Seymour Take 1 but a game on that disc already uses 1.BIN, you can just rename the 1.BIN on Disc 11 to another number that is not being used on the destination disc. Don't forget to copy MENU11.BIN and the Basic loader to the destination disc as well!

Now we'll find the relevant addresses to Poke in line 50 of the loader for the second game choice of the first Menu shown on page three, viz., FIRELORD. Line-ref 23 of Fig.3 says we should start looking from memory location 87eb (converted from \$aaeb) onwards, so get back to the Command Screen, type in the letter M immediately followed by '87eb' (ENTER), then press CTRL-A to see the disassembly of the m/c from there onwards. You should see Fig.5 below.

The section of code to Load and Run Menu choice 2.

Figure 5.	87eb	2122a7	(43)	LD	HL,#a722	2	:	a\$="Loading"
	87ee	cd38a8	(44)	CALL	<b>\$</b> a838		:	PRINT as
	87f1	3e02	(45)	LD	A. #02		:	Point to 2.BIN on disc = first part of FIRELORD
	87f3	21f700	(46)	LD	HL,#00f7	1	:	Start address in memory to write to
	87f6	119a8d	(47)	LD	DE, #8d9a	1	:	Length in bytes of 2.BIN
	87f9	cd17ab	(48)	CALL	tab17	(8817)	:	Load 2.BIN into memory from the disc.
	87fc	cd71a5	(49)	CALL	#a571			
	87ff	3e03	(50)	LD	A,#03		:	Point to 3.BIN on disc = second part of FIRELORD
	8801	2100c0	(51)	LD	HL, \$c000		:	Start address in memory to write to
	8804	11581b	(52)	LD	DE,#1658		:	Length in bytes of 3.BIN
	8807	cd17ab	(53)	CALL	#ab17	(8817)	:	Load 3.BIN into memory from the disc.
			. ,					on, all the way down to memory location #8816.

If you keep looking at more and more of the disassembly on your monitor, up to a limit of location 8816 remember, you won't see any more key-sections like line-refs 45 to 48, and 50 to 53.

The importance of finding the offset as detailed on page two is amply illustrated here and in Fig.3, because otherwise you wouldn't know which part of the m/c to look at to find out what BIN numbers are needed to run the FIRELORD game.

Here there are two addresses to poke into because there are two BIN files needed. You can see that the relevant locations are 87f2 and 8800, and in line 50 of the FIRELORD Basic loader you would poke these with any digit from 0 to 9 (but both must be different !!) depending on whatever you've renamed the original 2.BIN and 3.BIN files as on Disc 11.

Initially though, you can simply poke those locations with what is already there, as this can do no harm. If you do use the facility to rename any of the BIN files for a particular game then change the numbers in line 50 of the loader accordingly and alter line 20 as well so that you know which files go with each game in case you want to do some more shuffling in the future. That completes writing the Basic loaders for the m/c games on Disc 11.

DOING IT ALL AGAIN WITH MENU 14.

As more practise for the forthcoming Amstrad Action covertapes let's do it all over again with a lightning quick tour of Disc 14, and this time there won't be so much text to get in the way.

Now follow the instructions on loading in the DEVPAC monitor on page one, but use Menul4.bin instead.

When the Command Screen reappears press the letter M followed immediately by 8000 (ENTER), then press the letter L followed by a single press of any other key and see that the first exclamation mark after the text "(ENTER) KEY" corresponding to the number 21 on the left is in location &80fd. This is the entry address which is CALLed in line 60 of your Basic loaders.

Now press (ESC) to get back to the Command Screen. Nove the pointer to the entry address by pressing the letter M followed immediately by 80fd then press Enter. Now press CTRL-A to disassemble then press any other key once. The 5<sup>th</sup> line down on the right says LD DE,#a300 so this is the offset. The 6<sup>th</sup> line down says LD BC,#07dc and this is the length in bytes of Wenu14. The 9<sup>th</sup> line down on the right says CALL #a419. On the far left of the 9<sup>th</sup> line down memory locations &8113=&cd, &8114=&19 and &8115=&a4, so in line 40 of your Basic loader change these to &8113=62, &8114=<choice), &8115=0, where <choice) is as below. The addresses are hexadecimal numbers, but the values which you Poke into them are ordinary decimal numbers.

PAGE FIVE

<u>(choice) Program Name Program Type</u>	
1 STRYKER DEMO m/c	MENU for covertape 14.
2 CROCO MAGNETO Basic	
3 MARCHY #/c	Only allowed values for <choice> are 1 or 3.</choice>
4 GPAINT Basic	
5 TYPE-INS Basic	
6 Basic	
7 TRANSFER TO DISC (ignore)	

Now press CTRL-A to get back to the Command Screen, then press the letter G key followed immediately by the letters 'fe' then press Enter. Now type in the number 1 and press Enter, finally followed by pressing the Enter key in its own. The pointer will be >8715 FE< but if it isn't, press the letter N key once; if it still isn't then press the N key again and again until it does point to a location beginning with the number 8. Now press CTRL-A to disassemble the m/c of the Menu. The top 5 lines are

	8/15 te01	CP #01	See (choice) above.
	8717 2822	JR Z,#873b	GOTO 873b
	8719 feO3	CP #03	See (choice) above.
Note 1	871b ca61a	a JP 2,#aa61	GOTO aa61 (using #a300 offset, this converts to #8761)
	871e f5	PUSH AF	No need to look past here, remember.

So, the above information tells you that when the value of your (choice) in line 40 of your Basic loader equals 1 the Menu program will execute the code from locations 873b to 8760, inclusive, and load and run the STRYKER Demo game.

When (choice) equals 2 it will execute the code from memory location #aa61, but as this doesn't actually exist you have to convert it to a #8xxx number, otherwise you won't know where to GOTO to see the code which loads in the second game.

The next stage in writing the Basic loader is to find out what BIN file(s) are needed for each game and the address(es) to Poke in line 50 of your loader. For the STRYKER demo you will disassemble the m/c from location 873b, and for the ANARCHY game you'll disassemble from 8761.

So now press CTRL-A to get back to the Command Screen, then press M followed by 873b then press Enter then press any key once. You'll see :- 873b 2172a7 LD HL.#a772

	873e	cd65a8	CALL	<b>‡</b> a865	
	8741	3e01	LD	A,#01\	
	8743	216901	LD	HL,#0169 \	Recognise this ?
	8746	11978e	LD	DE,#8e97 /	
Note 2	8749	cd79aa	CALL	#aa79/ He	ere aa79 converts to 8779 using the offset of \$a300.
	874c	cd94a5	CALL	‡a594	
	874f	3e02	LD	A,#02\	
	8751	2100c0	LD	HL,#c000 \	and this ? SO 'STRYKER' NEEDS THE 1.BIN and 2.BIN FILES ON DISC 14.
	8754	115133	LD	DE,#3351 /	
Note 2	8757	cd79aa	CALL	#aa79/	So for line number 50 of your Basic loader for STRYKER you'd Poke address
	875a	af	XOR	A	\$8742 with a 1, and you'd Poke address \$8750 with a 2. If you want to rename
	875b	3203c0	LD	( <b>1</b> c003),A	the 1.BIN and 2.BIN files to a different number then do so, and amend the
	875e	c31111	JP	#1111	numbers in line 50 of your loader accordingly, and the REMinder in line 20.
No need to no		Lana Las		Note 1 shows	Abob localizes from #07/1 counds and for Abo second and

No need to go past here because Note 1 above says that locations from \$8761 onwards are for the second game.

To get the BIN file(s) needed for ANARCHY and the address(es) to Poke into, press CTRL-A and move the pointer to location #8761 then press CTRL-A to disassemble then press any key just once to get :-9761 2172-7 LD HI #3772

	8/01 21/28/	LU HL,#a//Z	
	8764 cd65a8	CALL #a865	
	8767 3e03	LD A,#03\	
	8769 217001	LD HL,#0170 \	<u>and this ?</u> SO 'ANARCHY' NEEDS ONLY THE 3.BIN FILE ON DISC 14.
	876c 11c0c6	LD DE,#6cc0 /	
Note 2	876f cd79aa	CALL #aa79/	So for line number 50 of your Basic loader for ANARCHY you'd Poke address
	8772 af	XOR A	18768 with a 3, or another number if you've renamed 3.BIN to something else.
	8773 cd0ebc	CALL #bcOe	
	8776 c38001	JP #0180	

No need to go past here because Note 2 above CALLs a subroutine from #8779 onwards to load the BIN file being pointed to, into the computer's memory from the disc.

You now have all the relevant information of what addresses to Poke to, and what numbers to Poke into them to write your Basic loaders for the m/c games for Disc 14.

The End

I hope you've found this useful, but if you have any criticisms good or bad, or suggestions for inclusion or exclusion, or any questions in case of difficulties then please write to me

#### All Bonzo Games Transfer List

								-
Game Name	Transfer Method	Comments	Game Name	Transfer Method	Comments	Game Name	Transfer Method	Comments
Red Scorpion	Option01		Sam Fox Str/Poker	Option03		Slaine	Blitz5	
Redcoats	Option01		Sam Fox Str/Poker	<b>Bl Detect</b>		Slapfight	<b>Bl Detect</b>	
Redhawk	Option11C	Melbourn House	Samurai Warrior	Hack Pack	Ex M/C Only	Slepshot	Hack Pack	
Redhawk	Hack Pack		Santas Xmas Caper	Option11C	1=0/2=192	Slightly Magic (C)	Option11C	Dizzy Collection
Reflex Renegade M/F	Option05 Bl Detect	Main File Only	Sapiens Saracen	Option07		Slug	Option01	
Rescue on Fractlus	B1 Detect	Main File Only	saracen Saracen	Bunlock Bl Detect		Smashed Snodgits	Option01 Hack Pack	
Return of the Jedi	No Trans	Domark	Satan	Hack Pack	Both Parts	Snooker	Option06	Mastertronic
Return to Eden	Hack Pack		Satelite Warrior	Option01	both fullts	Snowball	Option01	
Return to Oz	Option03		Savage	Option01	Use Basic L'der	Snowball in Hell	Option01	
Return to Oz	<b>Bl</b> Detect		Scalextric	Bl Detect		Soccer Boss	Option01	
Reveal	Option06		Scary Tales	Option01		Soccer Challenge	Option04	
Revenge of C5 Revolution	Hack Pack Bl Detect		Scooby & Scrappy Doo			Soccer Sims 4	Option03	Code Masters
Revolver	Option01		Scooby Doo	Hack Pack Option10		Soccer Supremo (C) Soccer 5 A Side	Option01 Option01	
Rex (Martech)		L/R A/R M/O	Score 3020 (C) Scout Steps Out	Option01		Soccer 86	Option07	
Rick Dangerous	Option01	Comp	Scrabble	Option03		Software Star	Option01	
Rick Dangerous	Hack Pack2		Scrabble	<b>Bl Detect</b>		Solar Coaster	Option01	
Ricochet	Hack Pack	219 march 201	Scramble Spirits	Option09	Main File Only	Solidinoor	Hack Pack	
Riding the Rapids Rig Attack	Option01	Players	Screenplay	Option08	MacMillan	Solomons Key	Option10	See User 7
Rigels Revenge	Option01	No.4 All Vone	Screwball	Option01	From Harry 7 Late	Sonic Boom M/F	Blitz6	Main File Only
Rik the Roadie	Hack Pack Option01	Not All Vsns. Reloc Off	Scuba Kidz Seabase Delta	Hack Pack Option01	Exp. User 7 Ldr	Sooty and Sweep Sorcerers Lord	Option04 Option01	
Road Blasters	Option10	Main File Only	Seas of Blood	Option01		Sorcerers Lora	Hack Pack	Not all Vsns.
Road Blasters	Blitnuxl	M/F Some Vsns	Sentinel	Hack Pack		Sorcery Soul of Robot	Hack Pack	NUC MIL VSUS.
Roadrunner	<b>Bl Detect</b>	See Disk	Sepulchri	Option01		Souls Darkon	Hack Pack	
Roadrunner/W.Coyte	Option11A	Ex M/C Only	Sesame Street Crayon			Southern Belle	Hack Pack	Firm Reset
Robbot	No Trans		Seymour G'Hollywood	Option14		Space Ace	Option05	
Robin Sherlock	Option01		Seymour Saves t'Plan			Space Harrier	Option01	
Robocop M/F	Blitz5	Main File Only	Shackled M/F	Option10	Main File Only	Space Harrier 2	Option09	Main File Only
Rocco Rock Hampster M/F	Bl Detect Option11A	Some 464 Only M/F Ex M/C Only	Shadow of Bear Shadow Skimmer	Option01 Blitnux1	EDGE	Space Mania Space Racer	Option01 Option07	Colours-Playabl
Rock Star ate/Hamste		IVI EX IVE ONLY	Shadow Warriors	Blitz6	Ocean	Space Raiders	Hack Pack	COTON S-FIRMADI
Rock'n Roller (C)	Option10		Shadowfire	Option01	CCBBIT	Space Rider	Option01	
Rock'n Wres.	Hack Pack	Last Resort	Shadows of Mordor	No Trans		Space Shuttle	Option03	
Rocketball	Hack Pack	Ex M/C Only	Shanghai Karate	Option05	Mod on Disk	Space Shuttle		Skip BASIC
Rockford M/F	Option04	Main File Only	Shanghai Warriors	Option02X	Main File Only	Space Trader	Option01	
Rockraid	Option01			Bunlock		Spaced Out	No Trans	Amount 0 411
Rocky Horror Rodeo Games	No Trans Option01	All levels		Bl Detect Option01	Players	Spaghetti Western Spanish Tutor	Option11 Option01	Amend Opt11
Rogue	Option01	AIL LEVELS		Option01	Flayers	Spannerman	Hack Pack	
Rogue Trooper	Option01		Sharpe's Deeds	Option01		Speech	Option01	
Roland in the Caves	Hack Pack		She Vampires	Hack Pack2		Speed Zone	Option06	
Roland in Time	Hack Pack		Ship of Doom	Option01		Speedking	Option01	Recent Opt6.
Roland on the Ropes	Hack Pack		Shockway Rider	Hack Pack		Spellbound	Hack Pack	
Rollaround	No Trans	N=+100% D1++1=	Shogun	Hack Pack2	Dank Ora	Spellbound Dizzy	No Trans	Diama Callestian
Rolling Thunder Room Ten	Option10 Hack Pack	Not100%: Plyble		Bl Detect No Trans	Part Une	Spike in Trans (C) Spiky Harold	Option11C Hack Pack	Dizzy Collection Most Vsns.
Rooster Run	Option01		Short's Fuse	Option01	or HP2	Spindizzy	Hack Pack	rios ( V3/13.
Ruff and Ready		Ex M/C Only		Option10		Spindrone	Option01	
Run for Gold	Option05	Curent Vsn.	Sidewalk	Option02	User 7 Ldr.	Spitfire (Durell)	Option02X	Get BASIC Opt1
Runestone		Ex M/C Only	Sigma7	Option01		Spitfire40	Hack Pack	Not Comp. Vsn.
Rygar	Option10		Silent Service	Bl Detect		Spitting Image M/F	Option02X	Main File Only
Sabotage	Option01		Silkworm	Blitz5X	Ev M/C Only	Splat	Option01	Banknaid
Saboteur Saboteur 2	Option01 Option02	User 7 Ldr.		Option11C Hack Pack	Ex M/C Only	Split Personalities	No Trans Option05	Bankraid
Sabrewolf	Option06	Ricochet Vsn.	Sir Fred Sir Lancelot	Option02X		Spooked Spooky Castle	Option02X	4 Game Pack
Sabrewolf		Comp		Option01		Spooky Castle	Option02X	
Sai Combat	No Trans		Skateboard Kidz	Hack Pack		Sport of Kings	Option01	
Saigon Combat Unit	Option05	2 Pts:Starlight	Skateroc Sim	Option02		Spy v Spy	Option02	<b>Optl on Trilogy</b>
Sailing	No Trans			Hack Pack2		Spy v Spy 2	Option01	
Saint's and Greavsie Salamander	Blitz5				4 Game Pack 2	Spy v Spy 3	Option01	User 7 Loader !
	011(29		Skyfox	0010102	User 7 Ldr.	Spy Hunter	optioning	APRIL & FORGEL :

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#### All Bonzo Games Transfer List

	Same Name	Transfer Method	Comments	Game Name	Transfer Method	Comments	Game Name	Transfer Method	Comments
	Spy Trek	Option03		Super Sprint	Blitz4	Hit Squad	Thai Boxing Thanatos	No Trans Option02	User 7 Ldr.
	Spy Trek Squash Jb	Bl Detect Option01		Super Stock Car Super Stuntman	Option06 Option03		The Deep M/F	Option10	Main File Only
	Stainless Steel	No Trans		Super Stuntman	Blitzold		The National	Option01	D&H
	Stairway to Hell	Option01		Super Tank	Option03	Or Picbonk	The Train	Hack Pack2	Ex M/C Only
:	Star Avenger Star Commando	Hack Pack		Super Tank	Blitzold		Theatre Europe	Hack Pack	
	Star Commando	Hack Pack		Super Ted		Ex M/C Only	Thing	Option05	n 1. 1.1
	Star Firebirds	Hack Pack		Superchess	Option01	Main File Only	Thing on a Spring Thing Bounces Back	No Trans Option09	Bankraid Ex M/C Only
	Star Raiders 2 Star Ranger	Option05 Hack Pack	Ex M/C Only	Supercycle M/F	Bl Detect Hack Pack	Main File Only	Thing 2	No Trans	EX IVE ONLY
	Star Trooper	Option05	EX IDE OILY	Supergran Superhero	Option03	Or Picbonk	Thingy & Doodahs	Hack Pack2	Ex M/C Only
	Star Wars	Option01		Superhero	Bl Detect		Thingy & Doodahs Think	Hack Pack	
	Stardust (C)	Option04Y		Superman-Man'Steel	Option01	User 7 Loader	Thomas the Tank		Ex M/C Only
	Starglider	No Trans		Supernudge 2000	Hack Pack2		Through T/Door	Option01	
	Starquake	Hack Pack		Superpipe' 2 Superski Challenge	Option01 Option01	User 7 Mod	Thrust Thrust 2	Hack Pack Hack Pack	
	Starstrike 2 Starstrike3D	No Trans Option02		Supersteuth	No Trans	USER 7 HOU	Thunder Blade	Option10	Main File Only
	Starwreck	Option01		Supersprint	Option05	Not Hit Sad Vsn	Thunder Jaws M/F	Option01	Main File Only
	Steel Eagle	Option01		Supertrolly	Option06	•	Thunderbirds 4pts	Option09	
	Steve D Šnooker	Option01	Some - 464 Only	Superwonderboy	No Trans		Thundercats	Option01	User 7 Loader
	Stifflip & Co	Option02X	Kixx & Palace	Survivor	Option10	US Gold	Thunderzone	Hack Pack	Ex M/C Only
	Stock Aid Stock Exchange	Option01 Option01	Amsoft UT. Top Ten Soft	Survivor Survivors	Hack Pack Option01	Not US Gold ATS	Tiger Road Timelord	Option10 Option01	
	Stock Market	Hack Pack	top ten sort	Swat	Option06	AIS	Timeman 1+2	Option01	
	Storm	Option01		Sweevo's World	Option01		Timetrek 3D	Hack Pack	
:	Storm Warrior	Option01	See User 7 Mod.	Swift Selection +	Option01	24 Programs !	Tiranog	Option01	User 7 Ldr.
	Storm 2	Option01		Switchblade	Option01		Titan	Option01	Main File Only
	Stormbrin <b>ger</b> Stormlord	Option08 Blitz5		Sword Slayer Swords'Sorcery	Option05 Option02		Titanic M/F Toad Runner	Option10 Option01	Main File Only
	Stormlord 2	No Trans	Hewson	SAS Assault	Option01		Tobruk	Hack Pack	Allow Reset
	Strangeloop	Hack Pack	Not all Vsns.	SAS Combat Sim	Option03	Or Picbonk	Tom Cat	Option05	Players
	Streaker	Hack Pack		SAS Combat Sim	Bl Detect		Tomahawk	No Trans	
	Street Cred Boxing	Option05X	Players	SAS Strikefce	Option05 Blitz5X	Also Blitz5	Tombstowne Toolkit	Option01 Option01	B'Bug
	Street Cred Football Street Gang	No Trans	Players	SDI T-Bird	Option02X	AISO BII(25	Top Secret	Option01	B Bug
	Street Hawk	B1 Detect		T/Leaderboard	Bunlock		Topcat		Ex M/C Only
1	Street Machine	Option01		Tai-Pan (Comp)	<b>Bl Detect</b>	Main File Only	Topgun	Bunlock	
	Streetfighter (C)	Option10	Main File Only	Tale o't Arab Knight	Option05Y	Interceptor	Topgun	Bl Detect	Baukus id
	Streetfighter (C)	Bl Detect	Main File Only	Tanium Tank (Camp)	Option05 Bl Detect	Main File Only	Tornado Low Level-TL Total Eclipse	No Trans Option02X	Bankraid
	Strike Force Cobra Strike Force Harrier	Hack Pack	Rename Files	Tank (Comp) Tank Attack	Option01	Hain File Only	Touchdown USA	Option01	
	Strike Force Harrier			Tank Commander	Hack Pack		Tourn of death-L/Enf		Infogames
	Strip Pok <b>e</b> r 2 +	Hack Pack2		Tapper	Option01		Tourn Snooker	Option02	
	Stryfe	Hack Pack		Target Renegade M/F	Blitz5	Main File Only	Tournament Leadbd. Track & Field (C)	B) Detect	
	Stunt Car Racer Stunt Car Racer	Option01 Hack Pack	Comp	Tarzan Task Force	No Trans Hack Pack		Tracksuit Manager	Blitz5 Option01	
	Stunt car Racer Stuntbike Sim	Hack Pack		Tau Coti	Option01		Traffic	Option01	
	Stuntman Seymour	Option04	Codemasters	Technic Ted	Option01	Comp. Vsn	Trans-Atlant Bln.	Blitznu	
:	Subşunk	Option02	User 7 Ldr.	Teen Mut/Hero W/T	Option01		Transmuter	Option03	Or Picbonk
	Subterranean	Option01		Tempest	Hack Pack Option06	Or Option5Y	Transmuter Trantor	Blitzold Option10	Code Masters Main File Only
	Subway Vigilante Sultan's Maze	Option05 Option01		Tennis-Lawn Tenpin Chall	Option01		Trap	Option01	User 7 Loader
	Summer Gms. M/F	Option10	Main File Only	Tenth Frame	Bunlock		Trapdoor	Hack Pack	Last Res A/R
:	Sun Crossword12384	Option01		Tenth Frame	<b>Bl Detect</b>		Trashman	Hack Pack	
	Sunstar	Option01		Terminus	Option01		Treasure Tunis	Option01	
	Super Hang On	Bl Detect	All 4 Game Pack	Terra Cognita Terramex	Hack Pack No Trans		Treble Champions Triaxos	Option01 Hack Pack	Starlight
	Super Kid Super League	Option02X Option01	T Game Fack	Terromolinos	Option03	Hibonkey	Trio	Option01	MacMillan
	Super Robin Hood	Option01	Needs Loader	Terromolinos	<b>Bl Detect</b>		Tripods	Option01	
1	Super Robin Hood	Hack Pack		Terror of Deep	Option05		Trivia the Ulti/Ques		Barrier 1.4
	Super Sam	Option01	Comm Alanda I DR	Test Master Test Match Crk	Option01 Option01	E&J	Trivial Pursuits Trivial Pursuits 2	No Trans No Trans	Bankraid
	Super Ski Super Soccer	Option01 No Trans	Comp/Needs LDR	Tetris	Option05	Mtronic is 6 !	Troll	Option10	Kixx

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#### All Bonzo Games Transfer List

Game Name	Transfer Method	Comments	Game Name	Transfer Method	Comments	Game Name	Transfer Method	Comments
Trollie Hall'	Hack Pack		Way of Exp. Fist		Most	Yogi's Greed Mnster	Option11B	Ex M/C only
Tuareg (C)	Option10		Hec Le Mans	Blitz5		Young Ones	Option01	
Tubaruba	Option03		Hells & Fargo (C)	Option10		Ž.	Hack Pack	
Tubaruba	Bl Detect		Welltris Werewolf Sim	Option01	Takes 83K	Zarkon	Option01	
Tujad	Option01		Merewolt Sim	Option01		Zaxxon	No Trans	
Turbo the Tortoise	Option11A	Ex M/C Only	Werewolves London	Option08	User 7 Ldr	Zen	Option01	
Turbo Boat Sim	Hack Pack		Hestbank	Option09		Zflint	Option01 Option03	5StarGames=OPT1
Turbo Chopper Sim	Option03	Or Picbonk	Western Games	No Trans	414 0-44 0-41	Zoids	Bl Detect	55 Car Games-OFTI
Turbo Chopper Sim	Blitzold	Clark O Turken	Who Dares 2 Wibstars	Option02X	Alt.Soft-Opt1.	Zoids Zolyx	Hack Pack	
Turbo Cup	Hack Packz	Start @ Turbo2	Willow Pattern	Option04X Hack Pack		Zone Trooper	No Trans	
Turbo Esprit Turbo Kart Racer	Option02X		Winter Games	Option03		Zorro	Option03	
Turbo Outrun	Option10B	M/F Ex M/C Only	Winter Games	Bl Detect		Zorro	<b>Bl Detect</b>	
Turfform	Option01	The Ex line only	Winter Olymps	Option01		Zox2099	Option07	
Twice_Shy	Option01		Winter Wonderland	Option02		Zub	Option12	Or use Masterx
Twin Turbo V8	Option03	Or Picbonk	Wizard Warz	Option10	Main File Only	Zynaps	No Trans	Space Ace (C)
Twin Turbo V8	Blitzold		Wizard Willy	Option03	Or Pickenk	1st Division Manager	Option08	
Twinworlds	No Trans		Wizard Willy	Blitzold		1942	Option01	
Typhoon M/F	Blitz5	Main File Only	Wizards Lair	Option02	Some Option1	1943	Option10	Use 42K File!
TT Racer	Hack Pack	L-Res Allow-R	Wizards Lair Wizball	Option02 Blitnux1	Not Hit Squad	2-Plyr Sup. League	Option01	
TT Racing Sim	Option01	Endurance?	Wizbiz	Option01		2088	Option01	
Uchi Mata (C)	Option01	Most Vsns.	Wolfman	Mack Pack	Rod Pike Horror	2112AD	Option04	
Uchi Mata (C)	Blitz5	May V <b>a</b> ry	Mombles The	Option04		3D Fight	Option07	Amsoft
Ulțima Ratio	Hack Pack	al 1 :	Wonderboy	Option05		3D Invaders 3D Pinball	Option01 Option06	Amsort
Unitrax		Streetwise	Hongs Loopy/Lnd	Option01		3D Pool	Hack Pack	
Untouchables M/F	Blitz6	Main File Only	Hooky	Hack Pack2 Option01		3D Snooker Players	Option01	
Up for Grabs Up Periscope	Option01 Option02X		Wordhang Wordperfect	Option01	Supersoft	3D Starfighters	Option03	
V (TV Serial)	Option03		Hordwise	Option01		3D Starfighters	<b>Bl Detect</b>	
V (TV Serial)	Bl Detect		Morld Baseball	Option03		300	Option01	
Yagan Attack	Hack Pack	Ex M/C Only	World Baseball	<b>Bl Detect</b>		3Wks in Paradise	Option04	User 7 Ldr.
Vampire	Bunlock		World Champions (C)	Option01		7 Card Stud	Option03	Or Picbonk
Vampire	<b>Bl Detect</b>		World Class Leadbd	Bl Datect	See Disk	720	Option10	
Vampire Killer	Option01		World Cup	Hack Pack		750CC Grand Prix	<b>Bl Detect</b>	
Vector Ball	Option01		World Cup Carnival World Cup Mgr	Hack Pack2				
Vendetta M/F	Blitz6	Main File Only	Norld Cup Mgr	Option02				
Venom	Hack Pack	E. # 40 Dm 3.	World Cup 2 World Games M/F	Option01 Bl Detect	Main File Only			
Venom Strikes Back	Option09 Hack Pack	Ex M/C Only	World Ser Baseball	Option01	Imaging			
Vera Cruz Very Big Cave	Option01		Horad Soccer Lge.	Option01	Imagrina			
Victory Road	Bl Detect		Worm in Paradise	Option02X				
Victory Road Video Card Arcade Video Classics	Option01		Wrath of Olympus	Option01				
Video Classics	Hack Pack		Wreckles Roger	Option01				
Video Poker	Option01		Wriggler	Option02				
View to Kill	Option02		Wriggler Wulf Pack	Option01	Сотр			
Vigilante M/F	Option10	Main File Only	Hulf Pack	Option01				
Vill Lost Souls	Option01		X-Out M/F	Option10	Main File Only			
Vindicator	No Trans		Xanagrams	Option01				
Vindicators	Option08	M/F Ex M/C Only	Xarq	Option03				
Vixen	Bl Detect	All 3 Parts	Xarq	Bl Detect Option02X				
Voice Chess	Option01 Option01		Xcel Xenon	Option08X				
Voodoo Rage Vulcan	Hack Pack		Xevious	Option03	Picbonk			
Wally Wino	Hack Pack	L/R M-Off A 81	Xevious	<b>Bl Detect</b>				
War	Option01	Martech	Xor	Option05	User 7 Ldr.			
War Games	Option01	RLX	Xybots M/F	Option09	Includes 6 lvls			
War Machine	Hack Pack	Players	Yabba Dabba Doo	Option01				
Warcars	Hack Pack		Yes Prime Minister	Option08	Main File Only			
Warhawk	Hack Pack		Yie Ar Kung-Fu	Option03	Hibonkey			
Warlock	Bl Detect		Yie Ar Kung-Fu 1+2	Bl Detect	See Disk			
Warlord	Hack Pack		Yogi and Friends	Option11B Option02	Ex M/C only			
Warzone	Option01 Option01		Yogi Bear Yogi's Great Escape		M/F Fx M/C only			
Waterloo	operonor		LARY 3 CLEAR CESCADE	-p	the state of only			