DATE	<del></del>	·	
PART NO			

CALC. NO	SHEET NO
MODEL NO.	
OUTOVED DV	

## TO: PROGRAMMA CONSULTANTS

TORRANCE, CA.

DEAR MEL,

PREPARED BY

HERE'S A REAL NICE PIECE OF SOFTWARE CALLED MASTERMIND, IT DOESN'T REQUIRE A BASIC, IT ONLY REQUIRES A SPHERE WIKED AT FOOD/1 (OLD ONE) AND V3D (V3N) PROMS. IT WILL RESIDE Ø300> Ø59E WITH THE PROGRAM AT BEGINNING AT ØYØØ. AT THIS STAGE, THE PROGRAM IS FAST, AND MAY EVEN APPEAR TO BE RUNNING THROUGH BASK DUE TO THE "FANCY" PROMPTING AND MESSAGES.

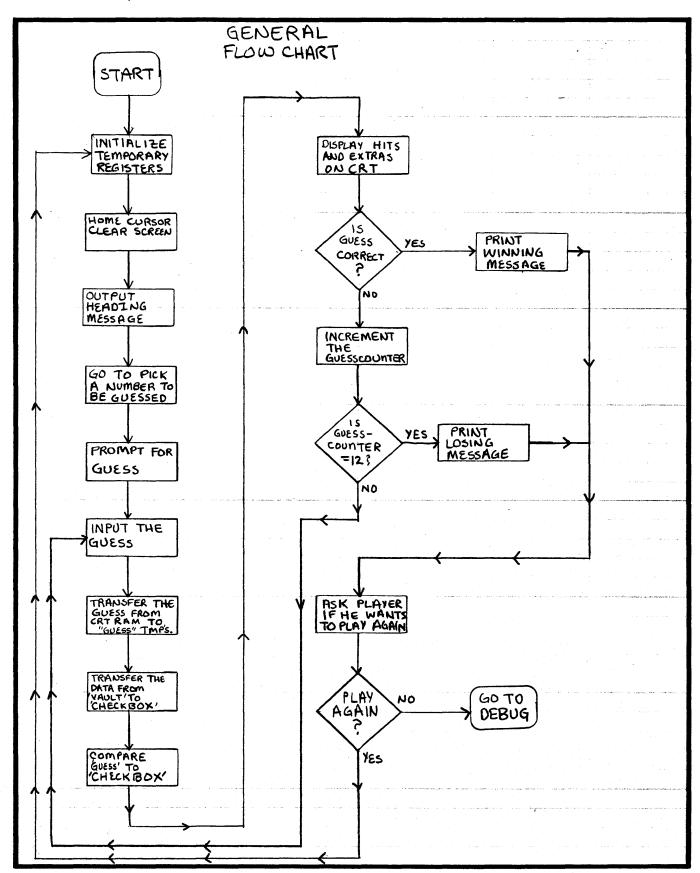
I IMAGINE THE PROGRAM COULD SELL FOR 5-310 DOWARS - IT'S UP TO YOU GUYS I GUESS.

I REALLY DON'T WANT TO RECIEVE Money for MY EFFORT, AS I HAD A LOT OF FUN DOING IT, AND MY PHILOSOPHY ABOUT SOFTWARE TENDS TO BE VERY LIBERAL; HOWEVER, I DIDN'T PUT IT IN THE NEWSLETTER BECAUSE I SAW THIS AS AN OPPORTUNITY TO GET more software for myself.

WHAT I WOULD LIKE TO DO IS HAVE YOU GO AHEAD AND SELL/DISTRIBUTE THIS PROGRAM, AND KEEP TRACK OF WHAT I "MAKE" AS FAIL AS ROYALTIES. WHEN I ACCUMULATE ENOUGH MONEY ON THAT "ACCOUNT", I'LL JUST BUY SOME SOFT WARE FROM YOU. I HOPE THIS IS AGREEABLE WITH YOU. IF YOU HAVE ANOTHER METHOD OR DON'T WANT TO DO IT THIS WAY THEN GO AHEAD AND WE'LL DO IT THE NORMAL WAY, I GET MY SOFTWAKE GITHER WAY.

706 W. ZIZTHST.
TORRANCE, CA. 90502 Sterry R. Marting n. AFTER 7:00

DATE 6/23/7	77, DI NOMICONTIO	CALC. NO.	SHEET NO
PART NO. MASTER	MIND (V3D)(V3D)YV3A) TO	MODEL NO.	
PREPARED BY H. MAR	11182	CHECKED BY	



DATE (123) PART NO. MASTE PREPARED BY HENF			MODEL NO	D	SHEET NO. Of 9
MASTE USUAL  IN NUME THE GUES  AFTE HIT GU EX	RMIND GAME, Y FOUND IN  THIS GAME, 3 ER, WHERE OBJECT IS SES.  ER EACH GU E NUMBER THE TESS THAT MBER THE TRAS ARE THE	D IS SIMILA AND TO THE BASIC.  THE COMPUTE EIN THE DIG TO GUESS  PESS THE COM OF HITS' A E NUMBER O COMPUTER P HE NUMBER O MOUTER'S PI	BAGELS G  R PICKS GITS GO FO  THE NUMB  MPUTER RE AND 'EXTRA  DF DIGITS  LEXACTLY  ICKED.  IN THE G	AME THATS  A 5 DIGIT  ROM Ø+6.  SER IN 12  SPONDS WIT  AS' YOU HA  IN YOUR  TO THE  UESS WHICH	TH 1.D.
Guess —	THE WRO		n Hits I	EXTRA	
		ARE A HIT	THE 3'S	ARE EXTA	RA's
	) TO PLAY				
		ETTE NAME 59E OCATION 4		[ab, 0P]	
	THE COMPUTE	R WILL PUT YPE:	A HEAD	ing on the	E //
	ENTER GU	£\$\$ >	www.camero		

4) YOU ARE REQUIRED TO INPUT A 5 DIGIT NUMBER FOLLOWED BY A "<".

(next page)

\*(ORIST PARKER BEOS. ?)

DATE	6/23/77
PART NO	MASTERMIND V3N
	ED BY HENRY MARTINEZ

CALC. NO	SHEET NO. 20f9
MODEL NO.	
CHECKED BY	

5) UPON TYPING THE LESS THAN SIGN, THE COMPUTER WILL TYPE THE NYMBER OF HITS AND EXTRAS THAT WERE IN YOUR GUESS, AND PROMPTS FOR NEXT GUESS.

>GUESS < HITS EXTRA

DENTER GUESS > XXXXXXX X X

DENTER GUESS >

- G) YOU HAVE 12 CHANCES IN WHICH TO GUESS THE NUMBER.

  A) IF YOUR GUESS IS CORRECT, THE COMPUTER WILL SAY SO AND TELL YOU HOW MANY GUESSES IT TOOK.

  B) IF YOU'RE NOT ABLE TO GUESS THE NUMBER IN 12 TRIES, YOU WILL BE TOLD WHAT THE NUMBER WAS.
- 7) AFTER THE GAMZ IS OVER YOU WILL

  BE ASKED IF YOU WANT TO PLAY

  AGAIN... IF SO, TYPE ANYTHING BESIDES

  AN "N", AND PLAY SOME MORE. TYPING

  N, PUTS YOU INTO DEBUG.

DATE	
PART NO. MASTERMIND	NSN
PREPARED BY HENRY MAI	RTINEZ

CALC. NO	SHEET NO. 399
MODEL NO.	V
CHECKED BY	•

TEXT FOR PROMPTING	G. 40	REWUESTS	32Ø →3DØ
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TEMPORARY	LOCATIONS:
-----------	------------

ADDRESS	DATA	
0300 301 302 303 305 305 307 309	SPARE  1st Digit  2nd Digit  3rd Digit  4th Digit  5th Digit  1st Digit  2nd Digit  3rd Digit  4th Digit	GUESS  CHECKBOX
30A 30B 30C 30D 30E 30F	5th Digit 2st Digit 2nd Digit 3rd Digit 4Th Digit 5th Digit	THE NUMBER THE COMPUTER PICKS IS PLACED HERE. FOR THE COMPARE, IT IS TRANSFERED TO THE BECAUSE THE COMPARISON
3   0 3   1 3   3 3   4 3   5 3   7 3   8	HITCOUNTER EXTRACOUNT GUESSCOUNT CURSOR POIL CURSOR POIL INDEX REGI INDEX REGI INDEX REGI	TER L TER DIER TEMP.

PROGRAM BEGINS AT: 0400 PROGRAM ENDS AT: 059E BACK SPACE CHAR. AT: 047F

NUMBER PICKER SUBROUTINE PARAMETERS":

- 1) LOWER BOUNDS: Ø420
- 2) UPPER BOUNDS: Ø433
- 3) OFFSET : 0438, 0439

\* SEE TEXT

\_\_\_\_\_ SHEET NO. 449 MODEL NO. CHECKED BY

## PROGRAM SPECIFICS.

I THE INPUT FROM KEYBOARD DOES NOT USE THE SPHERE EDITOR; THEREFORE YOU CANNOT USE ANY OF THE CURSOR CONTROLS EXCEPT FOR THE BACKSPACE - KEY ON THE CURSOR PAD.

TO CHANGE A GUESS BEFORE HITTING "<", SIMPU BACKSPACE TO THE DIGIT TO BE CORRECTED RE-TYPE IT AND TYPE THE RESTUFTHE NUMBER IN THE GUESS AGAIN UNTIL DONE (THIS'LL BECOME CLEARER AFTER WADING THE PROGRAM AND RUNNING IT A FEW TIMES).

- II MAKE SURE THAT YOUR GUESS IS 5 DIGITS ONLY OTHERWISE THE HIT COUNTS AND EXTRA COUNTS WILL BE INCORRECT FOR THAT PARTICULAR GUESS.
- III THE PICK A NUMBER ROUTINE FOR THE COMPUTER IS RATHER CLEVER I THINK, BUT SEEMS TO BEHAVE DIFFRENTLY IN DIFFRENT SYSTEMS / SOMETIMES THE RANDOM NUMBERS AREN'T VERY RANDOM). SO I'LL EXPLAIN HOW I GENERATE THE NUMBERS AND TELL YOU. HOW TO "FIX" THE SUBROUTINE IF IT'S MISBEHAVING.

THE RANDOM NUMBER GENERATOR LOOKS AT THE KBD PIA FOR GARBAGE AT LOCATION FOODO, IT PUTS IT IN THE ACC A, AND CHECKS TO SEE IF IT IS WITHIN A SPECIFIC RANGE ( NOW SET TO OB \$ # < 12,). WHEN IT IS BETWEEN THOSE TWO LIMITS, THE PROGRAM ADDS 2416 TO BRING THE NUMBER INTO THE ASSI LANGE OF 30+36, (0-6). WHEN THE NUMBER ISN'T WITHIN THE LIMITS, THE PROGRAM SIMPLY GOES AND FETCHES ANOTHER NUMBER AND CONTINUES UNTIL ITS FILLED 5 MEMORY LOCATIONS I CAU THE 'VAULT', WITH ASCII CHARACTERS (next PAGE)

CLAS = ATION

DATE	6/23/	77
PART NO.	MASTERM	ND(V3N)
	- LEADY	

CALC. NO	SHEET NO.	30/4	
MODEL NO.			
CHECKED BY			

山(cont'd)

BECAUSE THE COUNTERS ON the KBD Which FEED THE PIA, AND ULTIMATELY THE MASTERMIND PROGRAM ARE RUNNING AT SLIGHTLY DIFFRENT FREQUENCIES ON DIFFRENT SPHERES, YOU MAY NOT GET RANDOM NUMBERS IN THE RANGE WHERE I DID.

THE REMEDY IS SIMPLE, INCREMENT OR DECREMENT THE UPPER AND LOWER BOUNDS BY THE SAME AMOUNT, and Change the offset add at location 438,439 accordingly. The add can be changed to a subtract if the range that you find suitable is above 3\$\pi\$-36.

i.e.

MEM LOCATION NOW LATER

42D ØB  $\pm \times$ 433 12  $\pm \times$ 438 8B\* 8Ø \*CHANGE IF LOC 4ZD

439 24  $\mp \times$  15 > 3Ø16 50 AS TO

SUBTLACT DOWN INTO

THE 3Ø>36 RANGE.

NOTE: LOCATION 4ZA,4ZB SHOULD BE CHANGED IF YOU'VE GOT A NEW KBD (PRESENTLY SET TO FORM)

I FEEL THE PROGRAM WILL PROVIDE A GOOD DEAC OF ENTERTHINMENT AND WILL MAKE A GOOD DEMONSTRATION PROGRAM WHEN SOME HEATHEN ASKS YOU, "WELL, WHAT DOES A COMPUTER DO?".

AND WHO SAYS YOU NEED A BASIC INTERPRETER TO PLAY MASTER MIND!, THIS PROGRAM DOES IT.

IN LESS THAN 30016 BYTES [6716 BYTES & 33K]

IF THERE ARE ANY QUESTIONS OR PEDBLEMS WITH THE INNARDS OF THE PROGRAM, CALL OR WRITE ME, I'LL BE GLAD TO HELP. HOME! (213) 320-2161 ADDRESS: 706 W. 212TH ST. TORRANCE, CALIF. 90502

CLAS - ALGE

DATE 6/23/1)
PART NO. MASTERMIND TEXT
PREPARED BY H. MARTINEE

3020404-06900007304545 05242 0554544442522224525250045555 EBEEBEEBEEBEEBEEBEED BEES 3503 .... 542554442424222343434254 35032E75810000E509081 44453 5573E 705 54 F 52524542 Ø355 4F55 2121 52422 0 田田田田田 24 q 4 E

	1 100 1	•			
DATE	6/23/77		+ , 1		
W.	ASTERMIN	700	/T	•	
PART NO.			. /		
DDED A DED BY	H. MART	ÍNEF	-		

CALC. NO. SHEET NO. FEXT 2

MODEL NO. CHECKED BY

1EX1

CASTAINN

		Mastermin d Pro	ram 8019
	<b>84</b> 06 7F CLR <b>8</b> 312	Mastermin d Pro Home CLEAR  0426 0469  0445 0418 Pick # to be Guessed	?, B47E 81 CMPA#14 - Backspace Code
ź,	<b>040</b> 6 7F CLR <b>0</b> 312 <b>64</b> 63 BD JSR FC37	11046	?, 0480 27 BEQ 09 0488
	0406 BD JSR FC3D	Home :	?, <b>04</b> 82 BD JSR FCBC
) },	0409 CE LDX #0320	Crowk .	?, 0485 81 CMPH#3C <
,	0460 DF STX 11		?, 0487 27 BEQ 09 0492
,	646E CE LDX #835D	<b>1</b>	?, 0489 20 BRA F0 047B
,	6411 DF STX 6A	<b>.</b>	?, <b>04</b> 85 DE LDX 10
j	6413 BD JSR FD8E		?, 048D 09 DEX
,	0416 80 BSR 0E	BADE	?, 048E DF STX 10
j j	0418 80 BSR 4F	0420 0420	?, <b>04</b> 90 20 BRA E9 0478
;	041A 70 INC 0312	etes.	?, 6492 DE LDX 10
,	6410 B6 LDAA 0312	• <del>•</del>	?, <b>04</b> 94 09 DEX
,	8420 81 CMPA#00		?, <b>64</b> 95 09 DEX
,	6422 27 BEQ 21	GAAST I	?, 8496 A6 LDAAXOO CRT > GUESS TEMP
	8422 27 BEG 21	6440	?, 0498 B7 STAA 0305
•	0424 26 BRH F2	DATO.	?, 6498 09 DEX
ı			?, 8490 A6 LDRAX00
,	0429 B6 LDAA F000	PUT IN -> VAULT TEMP.	?, 049E B7 STAA 0304
,	042C 81 CMPH#08	647°	7, 84A1 09 DEX
,	042E 22 BH1 02	0432	?, <b>64</b> R2 R6 LDARX00
;	0430 26 BRA F7	0429	?, 64A4 B7 STAA 0303
	0432 81 CMPA*12	6475	7, 04A7 09 DEX
	0434 23 BLS 02	9438 9400	?, 64R8 H6 LDHAX00
	0436 20 BRA F1	0429	- ?, 04AA B7 STAA 0302
:	0438 85 HDDA#24 4		?, 64AD 69 DEX
	043A A7 STAAXCO		?, 04AE A6 LDAAN00
	043C 08 1NX		? 0480 B7 STAG 0301 , VAULT → CHECKB
	643D 8C CPX #6310		?, 0483 B6 LDAA 0308
r	0440 27 BEQ 02	0444	?, <b>84</b> B6 B7 STAA 0306
	6442 20 BRH E5	0429	?, 0489 B6 LDAA 030C
,	0444 39 RTS		?, 04BC B7 STAA 0307
•	0445 CE LDX #0370		
	6448 DF STX 11		7, 0402 B7 STAA 0308
	044A CE LDX #0385		77 0404 D( D) HR 0000
	844D DF STX 8A		77 0400 DD LUNN WORE
	844F BD JSR FDSE		7) 0400 D( D) DD 0000 0000 0000 0000 0000 000
,	0452 CE LDX #0308		O GASE DO CIGO COGO
	0455 A6 LDAHX00		TO BYPE DE DITTE BORT A
	6457 FF STX 6315		?, 0402 B7 STAA 0300 ?, 0402 B7 STAA 0308 ?, 0408 B7 STAA 0309 ?, 0408 B6 LDAA 0305 ?, 040E B7 STAA 0307 ?, 0401 FF STX 0313 HITCOUNT ROUTIN ?, 0404 7F CLR 0310 ?, 0407 CE LDX #0301 ?, 040A A6 LDAAX00 ?, 040E 11 CBA ?, 040F 27 BEQ 08 04E9 ?, 04E1 08 INX ?, 04E2 8C CPX #0306 ?, 04E5 27 BEQ 09 04F2 ?, 04E7 20 BRA F1 04DA ?, 04E9 7C INC 0310 ?, 04E6 6F CLR X00 ?, 04E6 6F CLR X05 ?, 04E6 20 BRA EF 04E1
	845R BD JSR FCBC		O OAGO OF LOW ROSON
	<b>045D FE LDX 0315</b>		7 0407 OF LOSSUAS
ş	0460 08 1NX		7/ 040H HE LUHHAGG
ŧ	0461 8C CPX #0310		7, BANC EP FOURTHOO
,	0464 26 BNE EF	0455	0 090E 11 UBH
	0466 7E JMP 0581		CO MARTA ON TARE
	0469 CE LDX #0360		O 04E1 00 INA
	046C DF STX 11		7, 1942 SU UYX #U3U5
,	046E CE LDX #036C		7, 04FD 5, REG RP R4-5
	6471 DF STX 0A		7, 64E7 20 BKH F1 64DH
	6473 BD JSR FD6E		7, 04E9 70 INC 0310
	6476 DE LDX 10 -	INPUT GUESS	V MAEC OF CLK MAN
,	0478 FF STX 0313		7, 04EE 6F CLR X05
-	MAZE BY 150 ELVE		7, U4FB 28 BRH EF B4E1

```
?, 04F2 7F CLR 0311- EXTRA LOUN

?, 04F8 FF STX 0315

?, 04F8 FF STX 0315

?, 04F8 8C CPX #0305

?, 04FE 27 BEQ 26 0525

?, 0506 A6 LDARMOO

?, 0504 27 BEQ 1A 0520

?, 0506 CE LDX #0306

?, 0506 CE LDX #0306

?, 050E 08 INX

?, 050E 08 INX

?, 050F 8C CPX #0308

?, 0512 27 BEQ 06 0520

?, 0514 20 BRA F3 0509

?, 0516 6F CLR X00

?, 0518 FE LDX 0315

?, 0518 7C INC 0311
                                 ?, 84F2 7F CLR 8311-EXTRA COUNTER ROUTINE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ?, 055F B6 LDAA 0312
?, 0562 40 INCA
?, 0563 CE LDX #000A
                7, 04F5 CE LDX #0301
7, 04F8 FF STX 0315
7, 04F8 FF STX 0315
7, 04F8 BC CPX #0305
7, 04FE BC CPX #0305
7, 04FE BC CPX #0305
7, 0506 AG LDARN00
7, 0506 AG LDARN00
7, 0506 AG LDARN00
7, 0506 AG LDARN00
7, 0506 CE LDX #0306
7, 0506 BINX
7, 0507 CF STX 11
7, 0508 BINX
7,
                      7, 052C 08 INX
2, 052D 88 ADDA#30 0
2, 052F DF STX 1C
2, 0531 BD JSR FCBC
2, 0534 DE LDX 1C
2, 0536 08 INX
2, 0537 08 INX
2, 0538 08 INX
3, 0538 08 INX
4
                            ?, 0538 08 INX
?, 0530 DF STX 10
?, 053E B6 LDAA 0311
?, 053C br __
?, 053E B6 LDAA bbl...
?, 0541 88 ADDA#30 0
?, 0543 BD JSR FCBC
?, 0546 BD JSR FD14
?, 0549 B6 LDAA 0310
?, 054C 81 CMPA#05
?, 054E 27 BEQ 01 0551
?, 0550 39 RTS
?, 0551 CE LDX #0390
?, 0554 DF STX 11
?, 0556 CE LDX #0390
9559 DF STX 0A
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