

```

PC      =%000007      RKT1      000000RG      R0      =%000000
R1      =%000001      R2      =%000002      R3      =%000003
R4      =%000004      R5      =%000005      R6      =%000006
R7      =%000007      SLINE     = ***** G      SP      =%000006
XDISP1  = ***** G      XSIZE1  = ***** G      YDISP1  = ***** G
YSIZE1  = ***** G      = 000160R

```

END ?

;

;

SUBROUTINE RKT1

;

;

VERSION 10

;

;

BILL SEILER

;

AUG 20, 1974

;

DRAW ROCKET # 1

;

ALL REGISTERS ARE USED

;

USES THE STK

;

;

```

000000      R0=%0
000001      R1=%1
000002      R2=%2
000003      R3=%3
000004      R4=%4
000005      R5=%5
000006      R6=%6
000007      R7=%7
000006      SP=R6
000007      PC=R7

```

.TITLE RKT1

.GLOBL RKT1,SLINE,XDISP1,YDISP1,XSIZE1,YSIZE1

.CSECT

```

000000 016704' RKT1:  MOV     XDISP1,R4      ;R4=XDISP1
000000

```

```

000004 016705'      MOV     YDISP1,R5      ;R5=YDISP1
000000

```

```

000010 016702'      MOV     XSIZE1,R2      ;R2=XSIZE1
000000

```

```

000014 016703'      MOV     YSIZE1,R3      ;R3=YSIZE1
000000

```

```

000020 010200      MOV     R2,R0           ;
000022 006200      ASR     R0              ;R0=X51/2
000024 010301      MOV     R3,R1           ;

```

```

000026 006201      ASR     R1              ;R1=Y51/2
000030 010146      MOV     R1,-(SP)        ;Y51/2

```

```

000032 160016      SUB     R0,(SP)        ;Y51/2-X51/2
000034 010146      MOV     R1,-(SP)        ;Y51/2

```

```

000036 060016      ADD     R0,(SP)        ;Y51/2+X51/2
000040 060402      ADD     R4,R2          ;XD1+X51 PTA

```

```

000042 060503      ADD     R5,R3          ;YD1+Y51 PTA
000044 160004      SUB     R0,R4          ;XD1-X51/2 PTB

```

```

000046 160105      SUB     R1,R5          ;YD1-Y51/2 PTB
000050 004767'     JSR     PC,SLINE        ;DRAW LINE #1
000000

```

```

000054 010204      MOV     R2,R4          ;X FINAL = X OF PTB
000056 010305      MOV     R3,R5          ;Y FINAL = Y OF PTB

```

```

000060 161602      SUB     (SP),R2        ;X OF PTC FROM PTB
000062 166603      SUB     2(SP),R3       ;Y OF PTC FROM PTB
000002

```

```

000066 166604      SUB     2(SP),R4       ;X OF PTD FROM PTB
000002

```

```

000072 061605      ADD     (SP),R5        ;Y OF PTD FROM PTB

```

```

000074 004767'    JSR      PC,SLINE          ;DRAW LINE #2
000000
000100 010204      MOV      R2,R4            ;X FINAL = X OF PTD
000102 010305      MOV      R3,R5            ;Y FINAL = Y OF PTD
000104 061604      ADD      (SP),R4          ;X OF PTE FROM PTD
000106 066605      ADD      2(SP),R5         ;Y OF PTE FROM PTD
000002
000112 004767'    JSR      PC,SLINE          ;DRAW LINE #3
000000
000116 010204      MOV      R2,R4            ;X FINAL = X OF PTE
000120 010305      MOV      R3,R5            ;Y FINAL = Y OF PTE
000122 066604      ADD      2(SP),R4         ;X OF PTF FROM PTE
000002
000126 161605      SUB      (SP),R5          ;Y OF PTF FROM PTE
000130 004767'    JSR      PC,SLINE          ;DRAW LINE #4
000000
000134 010204      MOV      R2,R4            ;X FINAL = X OF PTF
000136 010305      MOV      R3,R5            ;Y FINAL = Y OF PTF
000140 161604      SUB      (SP),R4          ;XD1-XS1/2
000142 066604      ADD      2(SP),R4         ;XD1+YS1/2-XS1
000002
000146 162605      SUB      (SP)+,R5         ;YD1-YS1/2
000150 162605      SUB      (SP)+,R5         ;YD1-XS1/2-YS1
000152 004767'    JSR      PC,SLINE          ;DRAW LINE #5
000000
000156 000207      RTS      PC              ;-----ALL DONE !!!-----

```

000001 .END

000000 ERRORS

PAL-115 V003A

*S H

*B H

*L T

*T T