-								
	2 IMM	2 ZPAG	2 Z,X	(I,X)	(I),Y	3 ABS	3 A,X	3 A,Y
ORA_	09_	05_	15_	01_	11_	OD	1D_	_19
AND	29	25	35	21	31	2D	3D	39
EOR	49	45	55	41	51	4D	5D	59
ADC	69	65	75	61	71	6D	7D	79
STA		85	95	81	91	8D	9D	99
LDA	A9	A5	B5	Al	Bl	AD	BD	B9
CMP	C9	C5	D5	Cl	Dl	CD	DD	D9
SBC	E9	E5	F5	El	Fl	ED	FD	F9

Op Code ends in -1, -5, -9, or -1	00	Code	ends	in	-1.	-5-	-9.	or	-D
-----------------------------------	----	------	------	----	-----	-----	-----	----	----

	2	2	2	2	3	3	3
	IMM	ZPAG	Z,X	Z,Y	ABS	A,X	A , Y
ASL		06	16		OE	1E	
ROL		26	36		2E	3E	
LSR		46	56		4E	5E	
ROR		66	76		6E	7E	
STX		86		96	8E		
LDX	A2	A6		B6	AE		BE
DEC		C6	D6		CE	DE	
INC '		E6	F6		EE	FE	

Op Code ends in -2, -6, or -E

	BPL	10	BMI	30
	BVC	50	BVS	70
1	BCC	90	BCS	BO
	BNE	DO	BEQ	FO.

Branches -0

	ABS	(IND)
JSR JMP	70 50	6C

Jumps -0,-C

	2	2	2	3	3
	IMM	ZPAG	z,x	ABS	A,X
BIT STY LDY CPY CPX	AO CO EO	24 84 A4 C4 E4	94 B4	2C 8C AC CC EC	BC

Op Code -0. -4. -C

0-	1-	2-	3-	4-	5-	6-	7-	8-	9-	A-	B-	C-	D-	E-	F-
BRK PHP ASL-A			SEC											INX	

Single-Byte Op Codes -0, -8, -A

Important	KTM	Memory	Location
Important	KTW	Memory	Locatio

0000	0070		-		-
UULF.	OUTU	-	Program	Counter	Image

00Fl - Status Reg image (format NV-BDIZC)

00F2 - Stack Pointer image 00F3 - Accumulator (A) image

00F4 - Y Register image 00F5 - X Register image

OOF9-OOFB - Display image data

User External Internal I/O register A 1700 1740 1701 1741 Directnl reg A 1702 1742 I/O register B 1703 1743 Directnl reg B -Timers: no interrupt-1704 1744 1 usec 8 usec 1705 1745 1706 1746 64 usec//read time 1747 1024 usec//timeout 1707 -Timers: interrupt-170C 17LC 1 usec 170D 8 usec 174D 170E 174E 64 usec//read time 170F 174F 1024 usec//timeout

0000-00EE, 1780-17E6: available

17F5-6 Audio tape start address Audio tape end address 17F7-8 17F9 Audio tape ID

17FA-B NMI Vector (for SST and ST) 17FE-F INT Vector (for BRK) Above vectors should be set to 1000 (00 10) for normal operation

Important KIM programs or *subroutines

1800 - Write (Dump) audio tape 1873 - Read (Load) audio tape

*199E - send 3700 Hz tone or beep

*19C4 - send 2400 Hz tone or beep

1A6B - send 3000 Hz PLL reference

1000 - "normal" interrupt entry point

1ChF - START - return to Monitor entry 1022 - RST - reset return to Monitor

TELETYPE SUBROUTINES:

1C2A - set teletype baud rate

*IEIE - print PC address

*lE2F - print new line

*1E3B - print A as two hex characters *1E9E - print a space *1EAO - output A as 8-bit character

*1E5A - input 8-bit character to A

*1F9D - input 2 hex characters to A

DISPLAY/KEYBOARD SUBROUTINES:

*1F19 - display address and contents

*IFIF - display 6 hex digits

*1F40 - test keyboard for any key

*1F6A - test which key pressed

*1F63 - increment display address

1FE7 - table of 7-segment patterns