



Addressing modes (TS,TD)			Variables and Constants used		Status registers in TMS9900	
R	Register Addressing	00	s,d	any of R,*R,*R+,@L,@L(R)	High	Logically higher than (unsigned)
*R	Register Indirect	01	reg	any register	Gt	Greater than (signed)
*R+	Reg. Indirect Autoincrement	11	m,rm	two contiguous registers	Equ	Equal value or last operation resulted in zero
@Label	Symbolic Direct	10	val	immediate value 16 bit	Carry	17th bit if result is bigger that >FFFF
@Label(R)	Indexed Addressing	10	offset	jump -128 / +127 Words	Ovf	Overflow in a signed operation
Im	Immediate	-	cnt	value 0 to 15 / 16 (xxCR)	Par	Checks if odd or even number of 1 used
Rel	PC / CRU Relative	-	adr	immediate 16 bit address	Xop	Set during XOP instruction

Hexadecimal Codes			Colors	ASC	x0	x1	x2	x3	x4	x5	x6	x7	x8	x9	xA	xB	xC	xD	xE	xF
0	0000	0	Transparent	2x	32	33 !	34 "	35 #	36 \$	37 %	38 &	39 '	40 (	41 )	42 *	43 +	44 ,	45 -	46 .	47 /
1	0001	1	Black	3x	48 0	49 1	50 2	51 3	52 4	53 5	54 6	55 7	56 8	57 9	58 :	59 ;	60 <	61 =	62 >	63 ?
2	0010	2	Med. green	4x	64 @	65 A	66 B	67 C	68 D	69 E	70 F	71 G	72 H	73 I	74 J	75 K	76 L	77 M	78 N	79 O
3	0011	3	Light green	5x	80 P	81 Q	82 R	83 S	84 T	85 U	86 V	87 W	88 X	89 Y	90 Z	91 [	92 \	93 ]	94 ^	95 _
4	0100	4	Dark blue	6x	96 ´	97 a	98 b	99 c	100 d	101 e	102 f	103 g	104 h	105 i	106 j	107 k	108 l	109 m	110 n	111 o
5	0101	5	Light blue	7x	112 p	113 q	114 r	115 s	116 t	117 u	118 v	119 w	120 x	121 y	122 z	123 {	124	125 }	126 ~	127 ¯

VDP Memory layout	TI BASIC	TI XB	XB256 Sc2	E/A	MiniMem	KEY	EQU >8375	Key-Code (>FF = none)
Screen Image	>0000 -02FF	>0000 -02FF	>0C00 -0FFF	>0000 -02FF	>0000 -02FF	JOYY	EQU >8376	Joystick vertical: 4,0,>FC
Char Pattern	>0000 -07FF	>0000 -07FF	>1000 -17FF	>0800 -0FFF	>0800 -0FFF	JOYX	EQU >8377	Joystick horiz.: 4,0,>FC
Color Table	>0300 -031F	>0800 -081F	>1800 -181F	>0380 -039F	>0380 -039F	CCHA	EQU >837D	Char at curr. screen pos.
Sprite Attributes	>0300 -0301	>0300 -036F	SoundTable:	>0300 -037F	>0300 -037F	CROW	EQU >837E	Current screen row
Sprite Patterns	unused	>0000 -07FF	>0980 -0BFF	>0000 -07FF	>0800 -0FFF	CCOL	EQU >837F	Current screen column
Sprite Motion Table	unused	>0780 -07FF		>0780 -07FF	>0780 -07FF	VDPR1	EQU >83D4	Copy of VDP register 1

**Your personal notes:**