## REGISTER 14-1: CONFIG - CONFIGURATION WORD REGISTER

CP	_	_	_	_	CPD	LVP	BOREN	MCLRE	FOSC2	PWRTE	WDTE	F0SC1	F0SC0									
bit 13					*						,		bit 0									
bit 13:	(PIC	CP: Flash Program Memory Code Protection bit <sup>(2)</sup> (PIC16F648A)  1 = Code protection off 0 = 0000h to 0FFFh code-protected (PIC16F628A)  1 = Code protection off 0 = 0000h to 07FFh code-protected (PIC16F627A)  1 = Code protection off 0 = 0000h to 03FFh code-protected																				
bit 12-9:	Unim	Unimplemented: Read as '0'																				
bit 8:	1 = D	CPD: Data Code Protection bit <sup>(3)</sup> 1 = Data memory code protection off  0 = Data memory code-protected																				
bit 7:	<b>LVP</b> : Low-Voltage Programming Enable bit  1 = RB4/PGM pin has PGM function, low-voltage programming enabled  0 = RB4/PGM is digital I/O, HV on MCLR must be used for programming																					
bit 6:	1 = B	BOREN: Brown-out Reset Enable bit (1)  1 = BOR Reset enabled  0 = BOR Reset disabled																				
bit 5:	1 = F	MCLRE: RA5/MCLR/VPP Pin Function Select bit  1 = RA5/MCLR/VPP pin function is MCLR  0 = RA5/MCLR/VPP pin function is digital Input, MCLR internally tied to VDD																				
bit 3:	1 = P	PWRTE: Power-up Timer Enable bit (1)  1 = PWRT disabled  0 = PWRT enabled																				
bit 2:	1 = V	WDTE: Watchdog Timer Enable bit  1 = WDT enabled 0 = WDT disabled																				
bit 4, 1-0:	111: 110: 101: 100: 011: 010: 001:	FOSC<2:0>: Oscillator Selection bits <sup>(4)</sup> 111 = RC oscillator: CLKOUT function on RA6/OSC2/CLKOUT pin, Resistor and Capacitor on RA7/OSC1/CLKIN 110 = RC oscillator: I/O function on RA6/OSC2/CLKOUT pin, Resistor and Capacitor on RA7/OSC1/CLKIN 101 = INTOSC oscillator: CLKOUT function on RA6/OSC2/CLKOUT pin, I/O function on RA7/OSC1/CLKIN 100 = INTOSC oscillator: I/O function on RA6/OSC2/CLKOUT pin, I/O function on RA7/OSC1/CLKIN 111 = EC: I/O function on RA6/OSC2/CLKOUT pin, CLKIN on RA7/OSC1/CLKIN 112 = CC: I/O function on RA6/OSC2/CLKOUT pin, CLKIN on RA7/OSC1/CLKIN 113 = CC: I/O function on RA6/OSC2/CLKOUT pin, CLKIN on RA7/OSC1/CLKIN 114 = CC: I/O function on RA6/OSC2/CLKOUT and RA7/OSC1/CLKIN 115 = CC: I/O function on RA6/OSC2/CLKOUT and RA7/OSC1/CLKIN 116 = CC: I/O function on RA6/OSC2/CLKOUT and RA7/OSC1/CLKIN 117 = CC: I/O function on RA6/OSC2/CLKOUT and RA7/OSC1/CLKIN 118 = CC: I/O function on RA6/OSC2/CLKOUT and RA7/OSC1/CLKIN 119 = CC: I/O function on RA6/OSC2/CLKOUT and RA7/OSC1/CLKIN 119 = CC: I/O function on RA6/OSC2/CLKOUT and RA7/OSC1/CLKIN 119 = CC: I/O function on RA6/OSC2/CLKOUT and RA7/OSC1/CLKIN 119 = CC: I/O function on RA6/OSC2/CLKOUT and RA7/OSC1/CLKIN 119 = CC: I/O function on RA6/OSC2/CLKOUT and RA7/OSC1/CLKIN 119 = CC: I/O function on RA6/OSC2/CLKOUT and RA7/OSC1/CLKIN																				
	Note	<ol> <li>Enabling Brown-out Reset does not automatically enable the Power-up Timer (PWRT) the way it does on the PIC16F627/628 devices.</li> <li>The code protection scheme has changed from the code protection scheme used on the PIC16F627/628 devices. The entire Flash program memory needs to be bulk erased to set the CP bit, turning the code protection off. See "PIC16F627A/628A/648A EEPROM Memory Programming Specification" (DS41196) for details.</li> <li>The entire data EEPROM needs to be bulk erased to set the CPD bit, turning the code protection off. See "PIC16F627A/628A/648A EEPROM Memory Programming Specification" (DS41196) for details.</li> <li>When MCLR is asserted in INTOSC mode, the internal clock oscillator is disabled.</li> </ol>																				
	Lege	Legend:																				
	R = F	R = Readable bit W = Writable bit U = Unimplemented bit, read as '0'																				
	-n = \	Value at PC	)R	'1' = bit	is set		'0' = bi	it is cleared	1	χ =	-n = Value at POR '1' = bit is set '0' = bit is cleared x = bit is unknown											