

The [PIC](#) Source Book

A collection of ready-to-use assembly language routines based on the instruction set of the BASIC Stamp ® single-board computer.

by Scott Edwards, 1994

Foreword to Online Edition

The [PIC](#) Source Book was written in 1993 to provide users of the [Parallax PIC](#) programming tools with a ready-made collection of assembly code in [Parallax](#) assembly mnemonics. (see below) At the time, there were four [PICs](#): 16C54, 55, 56, and 57. The popular '84 and ADC-equipped '71 were brand new. Since then, Microchip has made dozens of architectural enhancements to the [PICs](#), and made its assembler available free via the net and CD-ROM. This has diminished interest in both the 5x [PICs](#) and the [Parallax](#) assembler.

As a result of these changes, the *Source Book* is reaching the end of its commercial life. Rather than discontinue it, the author has decided to make it available free via the Internet.

Free means free. You may use this material in any way you wish without obligation to the author. The author bears no liability for the consequences of such use, and will not support users of this free edition in any way. He will not be obliged to answer questions or respond to comments. Any of you who have been besieged with e-mail during *Senior Project* season will appreciate the wisdom of getting this out in the open right up front!

The book lists some utilities and extras on "the accompanying disk." Unfortunately, people other than the author hold the rights to these items, so they cannot be included with this online freebie.

[PIC](#) is a registered trademark of Microchip Technologies Inc.; BASIC Stamp is a registered trademark of [Parallax](#) Inc.

Useful Links

[Scott Edwards Electronics, Inc.](#)

Company founded by the author; makers of serial LCD products.

[Parallax, Inc.](#)

Makers of tools for programming [PIC](#) and [SX](#) microcontrollers.

[Microchip Technology Inc.](#)

Manufacturers of [PIC](#) microcontrollers.

On the public release of the Scott Edwards [PIC](#) Source Book Disk, all executable files have been removed, and there is no Technical support whatsoever with the on line version.

Table of Contents

Introduction	If...Then ¹	Nap ¹	Serin (receive data) ¹
Branch ¹	Input ^{na}	Output ^{na}	Serin (convert #
Button ¹	Let x=x+y ¹	Pause ¹	data) ¹
Debug ¹	Let x=x-y ¹	Pot ¹	Serin (check
EEPROM ¹	Let x=y/z (division) ¹	Pulsin ¹	qualifiers) ¹
End ¹	Let x=y//z	Pulsout ¹	Serout (send data) ¹
For...Next	(remainder) ¹	Pwm ¹	Serout (format #
Gosub/Return ¹	Let x=y*z ¹	Random ¹	data) ¹
Goto ¹	Lookdown ¹	Read ^{na}	Sleep ¹
High ¹	Lookup ¹	Reverse ¹	Sound ¹
	Low ¹		Toggle ¹
			Write ^{na}
			Parallax Instructions

¹ Note: Routines marked with a ¹ have been re-converted to [MicroChip](#) assembler format by James Newton of [piclist.com](#) using [Tech-Tools cvasm16](#) and the latest version of [Tony Nixons ParaPic](#). They have **not** been checked in MPLAB.

See also:

- </techref/method/io.htm>
- [James Newton](#) refers to </techref/method/io.htm>
- </techref/microchip/language/basic/stamp-decode.htm> A brilliant text showing the actual encoding of the BASIC STAMP keywords.

See:

- </techref/io/pwm/index.htm> Pulse Width Modulation[±]
- </techref/piclist/begin.htm>
- </techref/microchip/routines.htm>
- </techref/microchip/languages.htm>
- </techref/microchip/math/index.htm>
- </techref/piclist/questions.htm>
- </techref/piclist/index.htm>
- </techref/microchip/seepicsrc/index.htm>

file: /Techref/microchip/seepicsrc/index.htm, NaNKB (4 imgs) in 0.197s is NaNKBps, updated: 2012/11/8 10:14, local time: 2022/10/3 05:09, owner: [DAV-MP-E62a](#),



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PICList 2022 [contributors](#):

o List host: [MIT](#), Site host

[massmind.org](#), Top posters

@none found

- Page Editors: James Newton, David Cary, and [YOU!](#)

* Roman Black of [Black Robotics](#)

donates from sales of [Linistep stepper controller kits](#).

* Ashley Roll of [Digital Nemesis](#)

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Quick, Easy and **CHEAP!** [RCL-1 RS232 Level Converter in a DB9 backshell](#)

Ashley Roll has put together a really nice little unit here. Leave off the MAX232 and keep these handy for the few times you need true RS232!

