

BASIC Stamp 2 Pins

Pin 1: S_{OUT}

Transmits serial data during programming and using the DEBUG instruction

Pin 2: S_{IN}

Receives serial data during programming

Pin 3: ATN

Uses the serial DTR line to gain the Stamp's attention for programming.

Pin 4: V_{SS}

Communications Ground (0V).

Pins 5-20:

Input/Output (I/O) pins P0 through P15

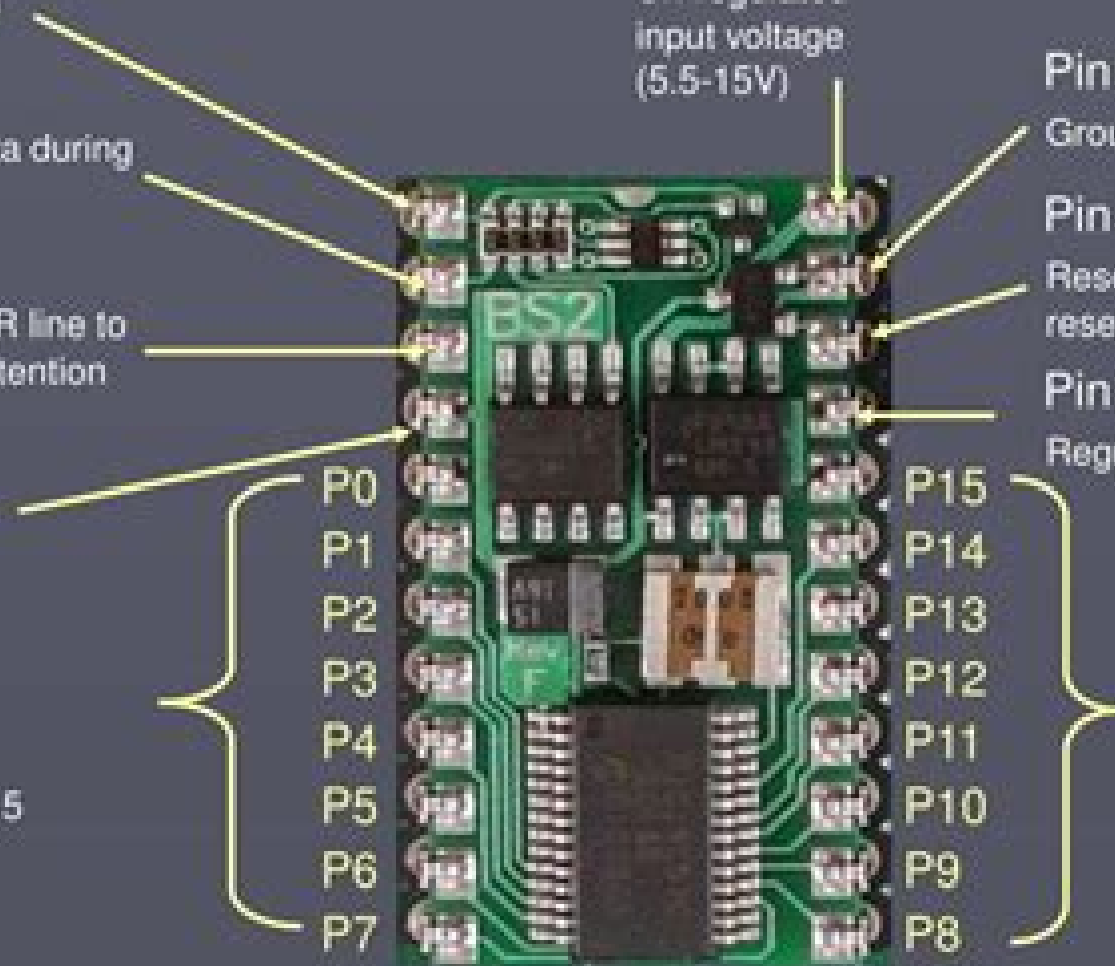
Pin 24: V_{IN}

Un-regulated input voltage (5.5-15V)

Pin 23: V_{SS}
Ground (0V)

Pin 22: RES
Reset- LOW to reset

Pin 21: V_{DD}
Regulated 5V.



Basic Stamp 2 Programming Guide

Cathan Cook



Basic Stamp 2 Programming Guide:

Programming and Customizing the Basic Stamp Scott Edwards, 2001-04-11 CLASSIC GUIDE TO CUSTOMIZING BASIC STAMP FOR HOBBYISTS AND DESIGNERS If you want to take advantage of the popular PIC Microcontroller for your electronics projects but are intimidated by the programming involved your worries are over Programming and Customizing the Basic Stamp Second Edition gives you a comprehensive tutorial on the easy to use BASIC Stamp single board computer which runs a PIC Microcontroller and doesn't require you to do any assembly language programming This new edition moves you briskly from electronic foundations through BASIC Stamp Boot Camps and an intelligent traffic signal simulation to build a robotic bug with whisker sensors a time temperature display and a data logging thermometer Written by Scott Edwards the original author of the widely read Stamp Applications column for Nuts Volts magazine this easy to follow reference includes a CD that gives you all the IBM compatible software tools necessary to begin developing Stamp applications BASIC Stamp Claus Kuhnel, Klaus Zahnert, 2000-08-17 BASIC Stamp An Introduction to Microcontrollers introduces microcontroller theory using the Parallax BASIC Stamp I II and IIsx The BASIC Stamp microcontroller is based on Microchip's PIC hardware with some modifications and is very approachable for beginning users Once the basic theory is established BASIC Stamp 2 E walks the reader through applications suitable for designers as well as the home hobbyist These applications can be used as is or as a basis for further modifications to suit specific design needs BASIC Stamp 2 E thoroughly explains the hardware base of the BASIC Stamp microcontroller including internal architecture the peripheral functions as well as providing the technical data sheets for each kind of chip The authors also explain the BASIC Stamp development systems including DOS and Windows based tools in tremendous detail As an added feature BASIC Stamp 2 E includes full instructions for using PBASIC programming and formatting The book provides many specific applications for microcontroller use complete with programming instructions including single instructions multiple instructions interfacing directions and more complex applications such as motion detection light measurement and home automation Provides a keystone for the introductory level of the Newnes microelectronics titles Introduces PIC microcontroller operation Demonstrates applications for designers and hobbyists **Electronics For Dummies** Gordon McComb, Earl Boysen, 2005-02-22 Want to hook up your home theater system Want to fix it so your garage band rocks the neighborhood Want to solder the faulty wire on your old phonograph so you can play those 60s albums you've kept all this time Whether you're a do it yourselfer hobbyist or student this book will turn you on to real world electronics It quickly covers the essentials and then focuses on the how to instead of theory It covers Fundamental concepts such as circuits schematics voltage safety and more Tools of the trade including multimeters oscilloscopes logic probes and more Common electronic components e.g. resistors capacitors transistors Making circuits using breadboards and printed circuit boards Microcontrollers implementation and programming Author Gordon McComb has more than a million copies of his books in print including his bestselling Robot Builder's Bonanza and VCRs and

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BASIC Stamp Programming Manual Parallax, Inc. Staff,2000 Practical and Experimental Robotics Ferat Sahin,Pushkin Kachroo,2017-12-19 Taking a completely hands on approach using cheap and easily available robotics kits Practical and Experimental Robotics provides a detailed exploration of the construction theory and experiments for different types of robots With topics ranging from basic stamp microcontrollers to biped and propeller based robots the text contains laboratory experiments examples with solutions and case studies The authors begin with a review of the essential elements of electronics and mechanics They describe the basic mechanical construction and electrical control of the robot then give at least one example of how to operate the robot using microcontrollers or software The book includes a reference chapter on Basic Stamp Microcontollers with example code pieces and a chapter completely devoted to PC interfacing Each chapter begins with the fundamentals then moves on to advanced topics thus building a foundation for learning from the ground up

Building a bridge between technicians who have hands on experience and engineers with a deeper insight into the workings the book covers a range of machines from arm wheel and leg robots to flying robots and robotic submarines and boats Unlike most books in this field this one offers a complete set of topics from electronics mechanics and computer interface and programming making it an independent source for knowledge and understanding of robotics **Intermediate Robot**

Building Cathan Cook,2004-04-12 Follow up to his very successful Robot Building for Beginners it will appeal not only to those who bought the first book but to others interested in Robotics that are interested in a more advanced book Robotics remains a hot topic with ongoing success of robotic battling shows on Television the spread of robot clubs in schools and likely increased interest in robotics resulting from Nasa s Mars robot rover program January 2004 David Cook is the webmaster of two popular robot sites www.robotroom.com and www.chibots.org Includes complete instructions and part sources to build a fully functional interesting robot with plenty of photographs Simple explanations and directions easily understood without intimidation Light hearted **Robot Building For Dummies** Roger Arrick,Nancy Stevenson,2011-05-09 Always wanted to build a robot but didn t know where to start This user friendly guide shows what robots can do how they work and more Ready to enter the world of robotics Then this book is for you If you don t know much about electronics high tech tools or computer programming that s okay If you can work with some basic tools such as pliers a screwdriver and a cutting knife have a computer and know your way around it and want to make a robot you re in the right place Robot Building For Dummies walks you through building your very own little metal assistant from a kit dressing it up giving it a brain programming it to do things and even making it talk In this hands on guide that s illustrated with step by step instructions and written in plain English you get an overview of robotics and the tools technology and skills you need to become a robot builder You ll discover The various approaches to robot building such as building from scratch or starting with a kit The mechanical parts of a robot and how they fit together The components of an efficient workspace and how to set one up Programming basics you need to enter and download commands into your robot How to add a controller which lets you download software programs to your robot Using an editor program to connect to your robot The importance of preparing the parts of a robot kit and then assembling the chassis wheels and sensor whiskers The fun of making your robot functional by adding motion detection light sensors and more How to troubleshoot common problems and fix them to save your robot s life Along the way you ll gather tidbits about robot history enthusiasts groups a list of parts suppliers and all important safety tips As an added bonus Robot Building For Dummies comes with rebates for your robot building kit no more waiting grab your copy and start building your robot today *Electronics All-in-One For Dummies - UK* Dickon Ross,Doug Lowe,2014-08-25 Your one stop UK shop for clear concise explanations to all the important concepts in electronics and tons of direction for building simple fun electronic projects The 8 mini books in this 1 volume include Getting Started with Electronics Working with Basic Components Working with Integrated Circuits Getting into Alternating Current Working with

Radio and Infrared Doing Digital Electronics Working with Basic Stamp Processors Building Special Effects With nearly 900 pages of instruction Electronics All in One For Dummies UK Edition covers all the bases and provides a fascinating hands on exploration of electronics

This book delves into Basic Stamp 2 Programming Guide. Basic Stamp 2 Programming Guide is a vital topic that must be grasped by everyone, ranging from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Basic Stamp 2 Programming Guide, encompassing both the fundamentals and more intricate discussions.

1. The book is structured into several chapters, namely:

- Chapter 1: Introduction to Basic Stamp 2 Programming Guide
- Chapter 2: Essential Elements of Basic Stamp 2 Programming Guide
- Chapter 3: Basic Stamp 2 Programming Guide in Everyday Life
- Chapter 4: Basic Stamp 2 Programming Guide in Specific Contexts
- Chapter 5: Conclusion

2. In chapter 1, the author will provide an overview of Basic Stamp 2 Programming Guide. This chapter will explore what Basic Stamp 2 Programming Guide is, why Basic Stamp 2 Programming Guide is vital, and how to effectively learn about Basic Stamp 2 Programming Guide.
3. In chapter 2, this book will delve into the foundational concepts of Basic Stamp 2 Programming Guide. This chapter will elucidate the essential principles that must be understood to grasp Basic Stamp 2 Programming Guide in its entirety.
4. In chapter 3, this book will examine the practical applications of Basic Stamp 2 Programming Guide in daily life. This chapter will showcase real-world examples of how Basic Stamp 2 Programming Guide can be effectively utilized in everyday scenarios.
5. In chapter 4, this book will scrutinize the relevance of Basic Stamp 2 Programming Guide in specific contexts. This chapter will explore how Basic Stamp 2 Programming Guide is applied in specialized fields, such as education, business, and technology.
6. In chapter 5, this book will draw a conclusion about Basic Stamp 2 Programming Guide. The final chapter will summarize the key points that have been discussed throughout the book.

The book is crafted in an easy-to-understand language and is complemented by engaging illustrations. It is highly recommended for anyone seeking to gain a comprehensive understanding of Basic Stamp 2 Programming Guide.

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