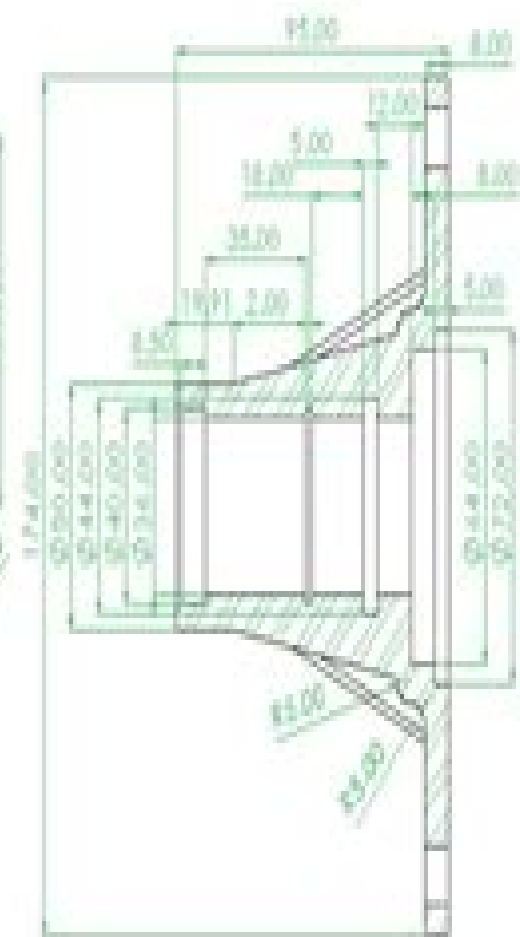
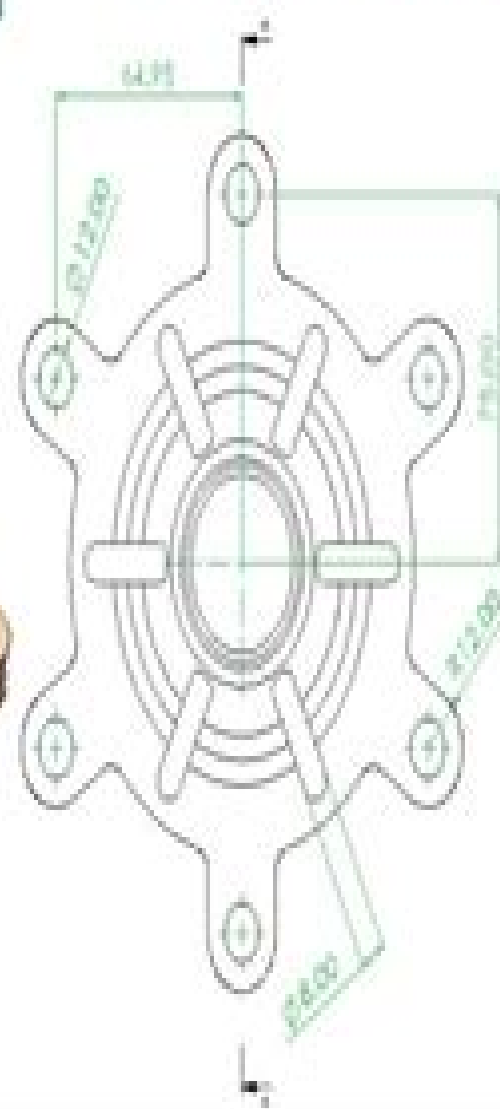




Solidworks Exercise #88

ISO 15



Solid Works Drawing Tool Guide

Paul Tran

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

Solid Works Drawing Tool Guide:

Learn SOLIDWORKS 2020 Tayseer Almattar, 2019-12-02 Explore a practical and example driven approach to understanding SOLIDWORKS 2020 and achieving CSWA and CSWP certification Key Features Gain comprehensive insights into the core aspects of mechanical part modeling Get up to speed with generating assembly designs with both standard and advanced mates Focus on design practices for both 2D as well as 3D modeling and prepare to achieve CWSP and CWSA certification Book Description SOLIDWORKS is the leading choice for 3D engineering and product design applications across industries such as aviation automobiles and consumer product design This book takes a practical approach to getting you up and running with SOLIDWORKS 2020 You ll start with the basics exploring the software interface and working with drawing files The book then guides you through topics such as sketching building complex 3D models generating dynamic and static assemblies and generating 2D engineering drawings to equip you for mechanical design projects You ll also do practical exercises to get hands on with creating sketches 3D part models assemblies and drawings To reinforce your understanding of SOLIDWORKS the book is supplemented by downloadable files that will help you follow up with the concepts and exercises found in the book By the end of this book you ll have gained the skills you need to create professional 3D mechanical models using SOLIDWORKS and you ll be able to prepare effectively for the Certified SOLIDWORKS Associate CSWA and Certified SOLIDWORKS Professional CSWP exams What you will learn Understand the fundamentals of SOLIDWORKS and parametric modeling Create professional 2D sketches as bases for 3D models using simple and advanced modeling techniques Use SOLIDWORKS drawing tools to generate standard engineering drawings Evaluate mass properties and materials for designing parts and assemblies Understand the objectives and the formats of the CSWA and CSWP exams Discover expert tips and tricks to generate different part and assembly configurations for your mechanical designs Who this book is for This book is for aspiring engineers designers drafting technicians or anyone looking to get started with the latest version of SOLIDWORKS Anyone interested in becoming a Certified SOLIDWORKS Associate CSWA or Certified SOLIDWORKS Professional CSWP will also find this book useful [SOLIDWORKS 2020 Reference Guide](#) David Planchard, 2019-12 A comprehensive reference book for SOLIDWORKS 2020 Contains 260 plus standalone tutorials Starts with a basic overview of SOLIDWORKS 2020 and its new features Tutorials are written for each topic with new and intermediate users in mind Includes access to each tutorial s initial and final state Contains a chapter introducing you to 3D printing The SOLIDWORKS 2020 Reference Guide is a comprehensive reference book written to assist the beginner to intermediate user of SOLIDWORKS 2020 SOLIDWORKS is an immense software package and no one book can cover all topics for all users This book provides a centralized reference location to address many of the tools features and techniques of SOLIDWORKS 2020 This book covers the following System and Document properties FeatureManagers PropertyManagers ConfigurationManagers RenderManagers 2D and 3D Sketch tools Sketch entities 3D Feature tools Motion Study Sheet Metal

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SOLIDWORKS 2023: A Power Guide for Beginners and Intermediate Users Sandeep Dogra, SOLIDWORKS 2023 A Power Guide for Beginners and Intermediate Users textbook has been designed for instructor led courses as well as self paced learning It is intended to help engineers and designers interested in learning SOLIDWORKS for creating 3D mechanical designs This textbook is a great help for new SOLIDWORKS users and a great teaching aid in classroom training This textbook consists of 14 chapters with a total of 780 pages covering the major environments of SOLIDWORKS such as Sketching environment Part modeling

environment Assembly environment and Drawing environment This textbook teaches users to use SOLIDWORKS mechanical design software for creating parametric 3D solid components assemblies and 2D drawings This textbook also includes a chapter on creating multiple configurations of a design This textbook not only focuses on the usage of the tools and commands of SOLIDWORKS but also on the concept of design Every chapter in this textbook contains tutorials that provide users with step by step instructions for creating mechanical designs and drawings with ease Moreover every chapter ends with hands on test drives which allow users to experience the user friendly and technical capabilities of SOLIDWORKS Table of Contents Chapter 1 Introduction to SOLIDWORKS Chapter 2 Drawing Sketches with SOLIDWORKS Chapter 3 Editing and Modifying Sketches Chapter 4 Applying Geometric Relations and Dimensions Chapter 5 Creating Base Feature of Solid Models Chapter 6 Creating Reference Geometries Chapter 7 Advanced Modeling I Chapter 8 Advanced Modeling II Chapter 9 Patterning and Mirroring Chapter 10 Advanced Modeling III Chapter 11 Working with Configurations Chapter 12 Working with Assemblies I Chapter 13 Working with Assemblies II Chapter 14 Working with Drawings **SOLIDWORKS 2019**

Reference Guide David Planchard, 2018-12-05 The SOLIDWORKS 2019 Reference Guide is a comprehensive reference book written to assist the beginner to intermediate user of SOLIDWORKS 2019 SOLIDWORKS is an immense software package and no one book can cover all topics for all users This book provides a centralized reference location to address many of the tools features and techniques of SOLIDWORKS 2019 This book covers the following System and Document properties FeatureManagers PropertyManagers ConfigurationManagers RenderManagers 2D and 3D Sketch tools Sketch entities 3D Feature tools Motion Study Sheet Metal Motion Study SOLIDWORKS Simulation PhotoView 360 Pack and Go 3D PDFs Intelligent Modeling techniques 3D printing terminology and more Chapter 1 provides a basic overview of the concepts and terminology used throughout this book using SOLIDWORKS 2019 software If you are completely new to SOLIDWORKS you should read Chapter 1 in detail and complete Lesson 1 Lesson 2 and Lesson 3 in the SOLIDWORKS Tutorials If you are familiar with an earlier release of SOLIDWORKS you still might want to skim Chapter 1 to become acquainted with some of the commands menus and features that you have not used or you can simply jump to any section in any chapter Each chapter provides detailed PropertyManager information on key topics with individual stand alone short tutorials to reinforce and demonstrate the functionality and ease of the SOLIDWORKS tool or feature The book provides access to over 260 models their solutions and additional support materials Learn by doing not just by reading Formulate the skills to create modify and edit sketches and solid features Learn the techniques to reuse features parts and assemblies through symmetry patterns copied components design tables configurations and more The book is designed to complement the Online Tutorials and Online Help contained in SOLIDWORKS 2019 The goal is to illustrate how multiple design situations and systematic steps combine to produce successful designs The author developed the tutorials by combining his own industry experience with the knowledge of engineers department managers professors vendors and manufacturers He is directly involved with

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The Complete Guide to Mold Making with SOLIDWORKS 2022 Paul Tran, 2021-12 The Complete Guide to Mold Making with SOLIDWORKS 2022 is a quick paced book written to provide experienced SOLIDWORKS users with in depth knowledge of the mold tools provided by SOLIDWORKS Throughout this book you will learn the procedures necessary for using these tools to create and analyze effective mold designs Utilizing step by step instructions each chapter of this book will guide you through different tasks from designing or repairing a mold to developing complex parting lines from making a core in the part mode to advancing through more complex tasks in the assembly mode Throughout this book you will be introduced to using surfacing tools to repair models and prepare them for the mold making process Towards the end of this book you will learn how to work with SOLIDWORKS Plastics and Flow Simulation to simulate the way melted plastics flow during the injection molding process You will also learn to analyze the thick thin wall regions to predict defects on plastic parts and molds Learning how to analyze plastic parts for errors and correct them early in the design stage is a valuable skill which can save a significant amount of time throughout the span of the entire design process Every project in this book is based on real world products Each of these projects have been broken down and developed into simple comprehensible steps Furthermore every mold design is explained very clearly in short chapters ranging from 15 to 25 pages Each step comes with the exact screen shot to help you understand the main

concept of the design Learn the mold designs at your own pace as you progress from simple core and cavity creation to more complex mold design challenges This book will also teach you to use various surfacing tools such as Ruled Surface Planar Surface Knit Surface Filled Surface Extend Surface Trim Surface Lofted Surface **The Complete Guide to Mold Making with SOLIDWORKS 2021** Paul Tran,2020-12-16 The Complete Guide to Mold Making with SOLIDWORKS 2021 is a quick paced book written to provide experienced SOLIDWORKS users with in depth knowledge of the mold tools provided by SOLIDWORKS Throughout this book you will learn the procedures necessary for using these tools to create and analyze effective mold designs Utilizing step by step instructions each chapter of this book will guide you through different tasks from designing or repairing a mold to developing complex parting lines from making a core in the part mode to advancing through more complex tasks in the assembly mode Throughout this book you will be introduced to using surfacing tools to repair models and prepare them for the mold making process Towards the end of this book you will learn how to work with SOLIDWORKS Plastics and Flow Simulation to simulate the way melted plastics flow during the injection molding process You will also learn to analyze the thick thin wall regions to predict defects on plastic parts and molds Learning how to analyze plastic parts for errors and correct them early in the design stage is a valuable skill which can save a significant amount of time throughout the span of the entire design process Every project in this book is based on real world products Each of these projects have been broken down and developed into simple comprehensible steps Furthermore every mold design is explained very clearly in short chapters ranging from 15 to 25 pages Each step comes with the exact screen shot to help you understand the main concept of the design Learn the mold designs at your own pace as you progress from simple core and cavity creation to more complex mold design challenges This book will also teach you to use various surfacing tools such as Ruled Surface Planar Surface Knit Surface Filled Surface Extend Surface Trim Surface Lofted Surface Who This Book Is For This book is for users already familiar with SOLIDWORKS who want to expand their knowledge of mold design To get the most out of this mold design book it is strongly recommended that you have completed all the lessons in the SOLIDWORKS Advanced Techniques book or have comparable knowledge More CAD literate individuals who want to expand their knowledge of the different features that SOLIDWORKS 2021 has to offer will also find this book to be a great resource

Commands Guide Tutorial for SolidWorks 2013 David C. Planchard,Marie P. Planchard,2012-12-27 The Commands Guide Tutorial for SolidWorks 2013 is a comprehensive reference book written to assist the beginner to intermediate user of SolidWorks 2013 SolidWorks is an immense software package and no one book can cover all topics for all users This book provides a centralized reference location to address many of the tools features and techniques of SolidWorks 2013 This book covers the following System and Document properties FeatureManagers PropertyManagers ConfigurationManagers RenderManagers 2D and 3D Sketch tools Sketch entities 3D Feature tools Motion Study Sheet Metal Motion Study Sustainability Sustainability Xpress FlowXpress PhotoView 360 Pack and Go Intelligent Modeling techniques and more

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Commands Guide Tutorial for SolidWorks 2012 David C. Planchard, Marie P. Planchard, 2011-12-18. The *Commands Guide Tutorial for SolidWorks 2012* is a comprehensive reference book written to assist the beginner to intermediate user of SolidWorks 2012. SolidWorks is an immense software package and no one book can cover all topics for all users. The book provides a centralized reference location to address many of the tools, features, and techniques of SolidWorks 2012. This book covers the following: System and Document properties, FeatureManagers, PropertyManagers, ConfigurationManagers, RenderManagers, 2D and 3D Sketch tools, Sketch entities, 3D Feature tools, Motion Study, Sheet Metal, Motion Study, Sustainability, Sustainability Xpress, FlowXpress, PhotoView 360, Pack and Go, Intelligent Modeling techniques, and more. Chapter 1 provides a basic overview of the concepts and terminology used throughout this book using SolidWorks 2012 software. If you are completely new to SolidWorks, you should read Chapter 1 in detail and complete Lesson 1, Lesson 2, and Lesson 3 in the SolidWorks Tutorials. If you are familiar with an earlier release of SolidWorks, you still might want to skim Chapter 1 to become acquainted with some of the commands, menus, and features that you have not used, or you can simply jump to any section in any chapter. Each chapter (18 total) provides detail PropertyManager information on key topics with individual stand-alone short tutorials to reinforce and demonstrate the functionality and ease of the SolidWorks tool or feature. All models for the 240 plus tutorials are located on the enclosed book CD with their solution initial and final. Learn by doing, not just by reading. Formulate the skills to create, modify, and edit sketches and solid features. Learn the techniques to reuse features, parts, and assemblies through symmetry, patterns, copied components, design tables, configurations, and more. The book is designed to compliment the Online Tutorials and Online Help contained in SolidWorks.

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Certified SOLIDWORKS Professional Advanced Preparation Material (2022) Paul Tran, 2021-12 The CSWPA is a set of exams designed to demonstrate your advanced abilities in five distinct areas of SOLIDWORKS By passing the CSWPA exams you prove to potential employers that you have an advanced skill set within SOLIDWORKS and you become more desirable in the job market Certified SOLIDWORKS Professional Advanced Preparation Material is intended for the SOLIDWORKS user who has already passed the CSWP exam and is ready to advance to the next level This book covers the five CSWPA examinations Sheet Metal Weldments Surfacing Mold Tools and Drawing Tools The lessons in this book were created based on the actual CSWPA examinations Each of these projects has been broken down and developed into easy and comprehensible steps for the reader Every challenge is explained very clearly in short chapters ranging from 30 to 50 pages Each step comes with a screen shot to help you understand the main concept of each design more easily Learn the CSWP Advanced Preparation Materials at your own pace as you progress from Parts Assemblies Drawings and then to more complex design challenges To get the most out of this CSWPA Certification Preparation book it is strongly recommended that you have studied and completed all the lessons in the Basic Tools Intermediate Skills and Advanced Techniques books It is also a great resource for the more CAD literate individuals who want to expand their knowledge of the different features that SOLIDWORKS 2022 has to offer This book is a great resource to prepare for and pass the CSWPA exams which will prove your expertise and further your career After completing at least four of the five CSWPA exams you will become eligible to try for the highest level SOLIDWORKS certification the Certified SOLIDWORKS Expert

Engineering Design with SOLIDWORKS 2016 and Video Instruction David Planchard, 2015-12 Engineering Design with SOLIDWORKS 2016 and video instruction is written to assist students designers engineers and professionals The book provides a solid foundation in SOLIDWORKS by utilizing projects with step by step instructions for the beginner to intermediate SOLIDWORKS user Explore the user interface CommandManager menus toolbars and modeling techniques to create parts assemblies and drawings in an engineering environment Follow the step by step instructions and develop multiple parts and assemblies that combine machined plastic and sheet metal components Formulate the skills to create modify and edit sketches and solid features Learn the techniques to reuse features parts and assemblies through symmetry patterns copied components Design Tables Bills of Materials Custom Properties and Configurations Address various SOLIDWORKS analysis tools and Intelligent Modeling techniques along with Additive Manufacturing 3D printing Learn by doing not just by reading Desired outcomes and usage competencies are listed for each project Know your objective up front Follow the steps in Projects 1 9 to achieve the design goals Review Project 10 on Additive Manufacturing 3D printing and its benefits and features Understand the terms and technology used in low cost 3D printers Work between multiple documents features commands and custom properties that represent how engineers and designers utilize SOLIDWORKS in industry

Review individual features commands and tools with the Video Instruction The projects contain exercises The exercises analyze and examine usage competencies Collaborate with leading industry suppliers such as SMC Corporation of America Boston Gear and 80 20 Inc Collaborative information translates into numerous formats such as paper drawings electronic files rendered images and animations On line intelligent catalogs guide designers to the product that meets both their geometric requirements and performance functionality The author developed the industry scenarios by combining his own industry experience with the knowledge of engineers department managers vendors and manufacturers These professionals are directly involved with SOLIDWORKS every day Their responsibilities go far beyond the creation of just a 3D model The book is designed to compliment the SOLIDWORKS Tutorials contained in SOLIDWORKS 2016 Engineering Design with SOLIDWORKS 2025 David C. Planchard, 2025-02 A comprehensive introduction to SOLIDWORKS using tutorial style step by step instructions Designed for beginning or intermediate SOLIDWORKS users Learn to create parts and assemblies using machined plastic and sheet metal components Also covers Simulation Sustainability and Intelligent Modeling techniques Includes bonus chapters on the CSWA exam and 3D printing Features a chapter and a bonus eBook on SOLIDWORKS and the 3DEXPERIENCE platform Are you looking to learn SOLIDWORKS As luck would have it you have found the perfect SOLIDWORKS resource for students designers engineers and professionals alike Engineering Design with SOLIDWORKS 2025 provides a solid foundation in SOLIDWORKS by using projects with step by step instructions that are perfect for both beginners and intermediate users Each project begins with desired outcomes and usage competencies so you ll know exactly what you ll learn and how to apply it Projects build your skills incrementally Throughout the book you ll learn to create machined plastic and sheet metal components explore the SOLIDWORKS user interface CommandManager and document and system properties You ll discover how to design simple and complex parts and assemblies with proper design intent You ll also explore how to use the SOLIDWORKS Toolbox and symmetry patterns and configurations to edit and reuse features and parts like the pros do And that s just the first six projects Next you ll investigate top down assembly modeling develop components in context with InPlace Mates convert a solid part into sheet metal and insert and apply sheet metal features With projects 8 and 9 you ll learn how to apply intelligent modeling techniques to a sketch feature or any SOLIDWORKS creation Prepare for the SOLIDWORKS Simulation Associate Finite Element Analysis CSWSA FEA exam with an overview of SOLIDWORKS Simulation important concepts and practice exam questions Plus bonus material in projects 10 and 11 describes the differences between additive and subtractive manufacturing and everything you need to know about 3D printing and the Certified SOLIDWORKS Associate Exam CSWA You will be delighted to find this is not just a dry technical manual The realistic project scenarios were created with the author s industry expertise and input of engineers department managers vendors and manufacturers who use SOLIDWORKS every day Whether you re looking to enhance your career or simply want to expand your knowledge of SOLIDWORKS Engineering Design with SOLIDWORKS 2025 is the ideal resource

for you Includes a Bonus eBook Covering SOLIDWORKS and 3DEXPERIENCE Platform Included with your purchase of this book is a bonus eBook titled SOLIDWORKS and the 3DEXPERIENCE Platform This eBook is an insightful guide that introduces you to the 3DEXPERIENCE Platform and its integration with SOLIDWORKS This resource simplifies complex concepts allowing users to collaborate efficiently in a single modeling environment accessible through the SOLIDWORKS Task Pane The book features nine detailed step by step tutorials complete with models to practice and understand the tools and advantages of using SOLIDWORKS with the 3DEXPERIENCE platform This guide will help you understand the 3DEXPERIENCE Platform s capabilities demonstrating practical real world applications in educational and professional settings It s an essential resource for anyone looking to leverage the full potential of SOLIDWORKS in conjunction with the 3DEXPERIENCE platform

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Engineering Design with SOLIDWORKS 2024 David Planchard, 2024-03-25 A comprehensive introduction to SOLIDWORKS using tutorial style step by step instructions Designed for beginning or intermediate SOLIDWORKS users Learn to create parts and assemblies using machined plastic and sheet metal components Also covers Simulation Sustainability and Intelligent Modeling techniques Includes bonus chapters on the CSWA exam and 3D printing This edition features a new chapter and a bonus eBook on SOLIDWORKS and the 3DEXPERIENCE platform Are you looking to learn SOLIDWORKS As luck would have it you have found the perfect SOLIDWORKS resource for students designers engineers and professionals alike Engineering Design with SOLIDWORKS 2024 provides a solid foundation in SOLIDWORKS by using projects with step by step instructions that are perfect for both beginners and intermediate users Each project begins with desired outcomes and usage competencies so you ll know exactly what you ll learn and how to apply it Projects build your skills incrementally Throughout the book you ll learn to create machined plastic and sheet metal components explore the SOLIDWORKS user interface CommandManager and document and system properties You ll discover how to design simple and complex parts and assemblies with proper design intent You ll also explore how to use the SOLIDWORKS Toolbox and symmetry patterns and configurations to edit and reuse features and parts like the pros do And that s just the first six projects Next you ll investigate top down assembly modeling develop components in context with InPlace Mates convert a solid part into sheet metal and insert and apply sheet metal features With projects 8 and 9 you ll learn how to apply intelligent modeling techniques to a sketch feature or any SOLIDWORKS creation Prepare for the SOLIDWORKS Simulation Associate Finite Element Analysis CSWSA FEA exam with an overview of SOLIDWORKS Simulation important concepts and practice exam questions Plus bonus

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sketch feature part plane assembly and drawing Project 10 Comprehend the differences between additive and subtractive manufacturing Understand 3D printer terminology along with a working knowledge of preparing saving and printing CAD models on a low cost printer Project 11 Review the Certified SOLIDWORKS Associate CSWA program Understand the curriculum and categories of the CSWA exam and the required model knowledge needed to successfully take the exam The author developed the industry scenarios by combining his own industry experience with the knowledge of engineers department managers vendors and manufacturers These professionals are directly involved with SOLIDWORKS every day Their responsibilities go far beyond the creation of just a 3D model

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