



David Vizard's How to Port & Flow Test Cylinder Heads (S-A Design)

By David Vizard

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Porting heads is an art and science. It takes a craftsman's touch to shape the surfaces of the head for the optimal flow characteristics and the best performance. Porting demands the right tools, skills, and application of knowledge. Few other engine builders have the same level of knowledge and skill porting engine heads as David Vizard. All the aspects of porting stock as well as aftermarket heads in aluminum and cast-iron constructions are covered. Vizard goes into great depth and detail on porting aftermarket heads. Starting with the basic techniques up to more advanced techniques, you are shown how to port iron and aluminum heads as well as benefits of hand and CNC porting. You are also shown how to build a high-quality flow bench at home so you can test your work and obtain professional results. Vizard shows how to optimize flow paths through the heads, past the valves, and into the combustion chamber. The book covers blending the bowls, a basic porting procedure, and also covers pocket porting, porting the intake runners, and many advanced procedures. These advanced procedures include unshrouding valves, porting a shortside turn from the floor of the port down toward the valve seat, and developing the ideal port area and angle. All of these changes combine to produce optimal flow velocity through the engine for maximum power.

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David Vizard's How to Port & Flow Test Cylinder Heads (S-A Design) By David Vizard Bibliography

- Sales Rank: #154066 in Books
- Brand: S-A Books
- Published on: 2012-02-23
- Original language: English
- Number of items: 1
- Dimensions: 11.00" h x .38" w x 8.50" l, 1.00 pounds
- Binding: Paperback
- 160 pages

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Editorial Review

Review

"Whether you have been porting your own cylinder heads for years or have someone else porting with or without a flow bench, buy them this book!" (*Engine Professional* 2012-04-01)

Appears in "Top 21 Reading Materials for the Auto Enthusiast." -Auto Enthusiast, January 2013 (Andy Bolig *Auto Enthusiast* 2012-12-04)

From the Back Cover

In certain terms, the more air your cylinder head flows, the more horsepower your engine can make. Porting cylinder heads allows you to flow more air and unlock hidden performance potential. As a result, you can extract significant horsepower and torque gains. To port heads, it takes a craftsman's touch to shape the passages of the head for the most efficient airflow and effective combustion of the fuel charge. To verify this work, you need to flow test the heads on a flow bench. In this ground-breaking book, porting master and engine building wizard David Vizard covers all the nuances of porting heads and how to build an affordable flow bench to test the results. Porting cylinder heads is an art and a science. It's like sculpting a piece of clay into a glorious final form and, therefore, it demands the right tools, skills, and application of knowledge. With 50 years of experience and uncommon acumen, David Vizard explains the principles, philosophy, and techniques for extracting maximum performance from cylinder heads. All the aspects of porting stock and aftermarket heads in aluminum and cast iron are covered. Vizard explains how to optimize flow paths through the heads, past the valves, and into the combustion chamber. He covers blending the bowls, pocket porting, unshrouding the valves, porting the intake runners, and many other advanced procedures. All of these changes combine to produce optimal flow velocity through the engine for the maximum power. If you've always wanted to port your heads but didn't have information to confidently obtain the best results, now you do.

About the Author

David Vizard is a revered engine builder and acknowledged Chevy big-block engine expert, which is why GM contracted him to develop several engine packages for the Chevy big-block crate program. He has authored more than 30 highly respected engine-building and automotive titles, penned about 4,000 magazine articles, and contributed scores of web articles to popular sites. Often referred to as "Vizard the Wizard," his work is often the subject of blogs and editorial pieces in popular automotive magazines. He currently owns and runs an engine research and development business in Charlotte, North Carolina.

Users Review

From reader reviews:

James Donofrio:

Why don't make it to be your habit? Right now, try to prepare your time to do the important act, like looking for your favorite book and reading a book. Beside you can solve your trouble; you can add your knowledge by the book entitled David Vizard's How to Port & Flow Test Cylinder Heads (S-A Design). Try to face the book David Vizard's How to Port & Flow Test Cylinder Heads (S-A Design) as your pal. It means that it can to get your friend when you truly feel alone and beside that course make you smarter than ever. Yeah, it is

very fortunate for yourself. The book makes you a lot more confident because you can know almost everything by the book. So, let me make new experience along with knowledge with this book.

Dan Fry:

In this 21st millennium, people become competitive in every single way. By being competitive right now, people have to do something to make these survive, being in the middle of typically the crowded place and notice by simply surrounding. One thing that often many people have underestimated the item for a while is reading. Sure, by reading a publication your ability to survive rises then having a chance to stand up than other is high. For you who want to start reading the book, we give you that David Vizard's How to Port & Flow Test Cylinder Heads (S-A Design) book as beginning and daily reading guide. Why, because this book is greater than just a book.

Georgia Cunningham:

Nowadays reading books become more and more than want or need but also become a life style. This reading habit gives you a lot of advantages. The advantages you get of course the knowledge the rest of the information inside the book this improves your knowledge and information. The details you get based on what kind of e-book you read, if you want to get more knowledge just go with knowledge books but if you want to really feel happy read one together with theme for entertaining such as comic or novel. Typically the David Vizard's How to Port & Flow Test Cylinder Heads (S-A Design) is kind of guide which is giving the reader a capricious experience.

Roberta Anglin:

Playing with family in the park, coming to see the ocean world or hanging out with pals is a thing that usually you might have done when you have spare time, after that why you don't try a thing that's really opposite from that. One particular activity that makes you not experience tired but still relaxing, thrilling like on a roller coaster you already been ride on and with addition of knowledge. Even you love David Vizard's How to Port & Flow Test Cylinder Heads (S-A Design), you could enjoy both. It is a good combination right, you still desire to miss it? What kind of hang-out type is it? Oh occur its mind hangout men. What? Still don't understand it, oh come on its known as reading friends.

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