

Product Brochure For L3457

Sheet Metal Shaping Book - Tools, Skills & Projects

240 Colour Pages

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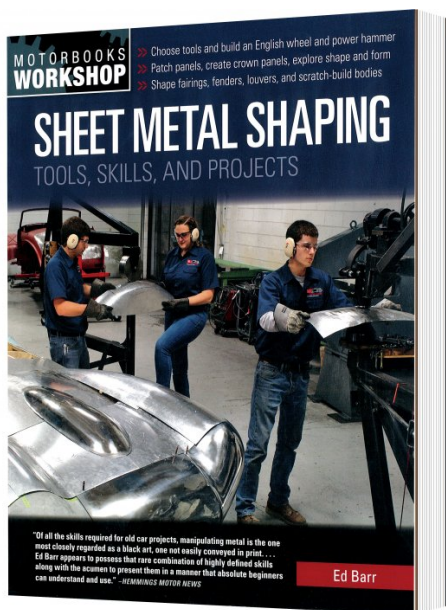
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Title:

Sheet Metal Shaping Book &
Tools, Skills & Projects

Number of pages (No.):

240



Description

Whether you want to create custom or replacement parts or build an entire automobile body, this metalworking course for gearheads from best-selling automotive restoration author and professor Ed Barr will take you as far as your interests reach. Barr demystifies this seemingly black art with information on tools and basic skills and 14 customizable projects, fully illustrated with step-by-step color photography.

"Choose Tools & build an english wheel & power hammer"

"Patch panels, create crown panels, explore shape & form"

"Shape fairings, fenders, louvers & scratch-build bodies"

First, you'll learn how to assemble your ideal toolkit, as well as how to build a power hammer and an English wheel. In the process, Barr will help you make informed choices based on available space and budget. Once you're all set up, he addresses the concepts of shape and form.

The projects are presented in a way that you can easily apply them to their own vehicles, whatever they may be. Barr also takes the time to show how the projects can be accomplished with different available tools. As you go, you'll gain the skills and confidence for tackling the increasingly complex cases presented. Work your way up to building a fender utilizing the wheeling machine you built earlier; then move on to building a Model T speedster body and an Indy car, and later a challenging 1934 Plymouth fender. The book even includes common "goofs" and how to avoid and, if necessary, correct them.

Written in an engaging and approachable style, Sheet Metal Shaping serves equally well as a useful supplement to Barr's previous Professional Sheet Metal Fabrication or as a must-have standalone volume for any fabricator's library.

"Of all the skills required for old car projects, manipulating metal is the one most closely regarded as black art, one not easily conveyed in print..."

Ed barr appears to possess the rare combination of highly defined skills along with the acumen to present them in a manner that absolute beginners can understand and use."

About the Author:

Ed Barr, best-selling author of Professional Sheet Metal Fabrication, teaches welding and sheet metal restoration in the Technology Department at McPherson College in McPherson, Kansas. Barr has been restoring cars and creating metal sculpture since he was a teenager. Barr graduated from the University of the South in 1991 and pursued a career in art museum administration after receiving an MA degree from the University of Kansas. Barr then served as director of the Mulvane Art Museum at Washburn University in Topeka, Kansas. Barr earned a BS degree in automotive restoration technology from McPherson College and subsequently worked at Vintage Restorations Ltd. in Union Bridge, Maryland, where he restored British cars. He resides in McPherson, Kansas.

CHAPTER 01 - THE PEASANT'S TOOLKIT
- The Stump

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- Tucking Tool
- Wire Edging Tool
- Spoon
- Other Useful Tools

CHAPTER 02 - BUILDING YOUR OWN ENGLISH WHEEL

- The Design
- List Of Materials
- The Build Stage 1 To 11

CHAPTER 03 - BUILDING A POWER HAMMER FROM A KIT

- Preparing For The Build
- List Of Materials
- The Build Stage 1 - To 12
- Tips For Adding A Second Set Of Arms

CHAPTER 04 - INTRODUCTION TO SHAPE & FORM

- Distinguishing Between Shape & Form
- A Little Thickness Change Means A Lot

CHAPTER 05 - THE LOW CROWN PANEL

- Sweep Explained
- Building A Simple Buck For The Low Crown Panel
- Making A Low Crown Panel With Hand Tools
- Making A Low Crown Panel With A Wheeling Machine
- Making A Low Crown Panel With A Power Hammer

CHAPTER 06 - THE HIGH CROWN PANEL

- Buck Building Tip
- Getting To Work
- A Stroll Down Easy Street: The Aluminium Cycle Fender

CHAPTER 07 - THE REVERSE CURVE PANEL

- Building A Simple Buck For The Reverse Curve Panel
- Conquering The Reverse Curve Panel With An English Wheel
- When Too Much Is Just Right: The Power Hammer Reverse Curve

CHAPTER 08 - SCRATCH-BUILT FENDER

- Turning Two Panels Into One
- Adding A Crease

CHAPTER 09 - PATCH PANELPALOOZA

- Risk-Free Practice
- Sneaking Up On The Perfect Fit
- How To Heat Shrink
- Patch Panel Checklist
- Tips, Tricks & Other Sorcery

CHAPTER 10 - SHINY TRIM REPAIR

- Saving A Sad Side Spear
- Restoring The Bling To A Headlight Ring
- Pull-Through Dies
- Making Trim With A Reciprocating Machine

CHAPTER 11 - The NAYSLAYRR MODEL T SPEEDSTER

- Model T Special Considerations
- Solving The Hood-To-Cowl Conundrum
- Defining The Tail
- Building A Sample Structure For The Body
- Exterior Sheet Metal
- Finishing The Tail
- Resolving The Top Edge Of The Cockpit
- Making Hood Straps

CHAPTER 12 - RE-CREATING AN INDY RACE CAR

- Building A Body Buck
- Starting On The Body Sheet Metal
- Crafting The Tail
- The Grille Shell
- Custom Sets
- Seat, Gas Tank & Body Supports
- Wrapping Up

CHAPTER 13 - BUILDING AN ALUMINIUM MOTORCYCLE FAIRING

- Stretching, Shrinking & Forming

CHAPTER 14 - BUILDING A PAIR OF EARLY CADILLAC FENDERS

- Building A Simple Buck
- Testing, Testing ...1,2,3
- Starting The Build
- Adding A Taillight Mount

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CHAPTER 15 - BUILDING A 1934 PLYMOUTH FENDER

- Making a Crown Panel Without A Buck
- Making The Beaded Fender Edge Without A Buck
- Preparing Paper Pattern & Getting Busy
- Panel Pitfalls
- The Second High Crown Panel
- Tackling The Reverse Curve
- Joining The Panels & Finishing The Edge

CHAPTER 16 - POURABLE FOAM BUCK

- Building An Inner Structure
- Testing The Foam Buck
- Making A High Crown Panel

CHAPTER 17- LOUVERED HOODS

- Low -Buck Model T Steel Hood
- Polishing Aluminium In Preparation For Louvers
- Pullmax Louvers

CHAPTER 18 - MGB "ZAGATO"

- Planning For Weld Seams
- Working Around Factory Detail
- Reverse Curve Panels
- Ready Made Hammer Forms
- Headlight Openings On Low Crown Panels
- Welding & Finishing

Features

- For Gearheads from Automotive Restoration Author & Professor Ed Barr, Barr Demystifies This Black Art with Information on Tools, Basic Skills & 14 Customizable Projects

Specific Features

Contents	
Introduction	4
Chapter 1 - The Peasant's Toolkit	14
Chapter 2 - Building Your Own English Wheel	24
Chapter 3 - Building A Power Hammer From A Kit	34
Chapter 4 - Introduction To Shape And Form	44
Chapter 5 - The Low Crown Panel	54
Chapter 6 - The High Crown Panel	64
Chapter 7 - The Reverse Curve Panel	74
Chapter 8 - The Hammer Forms	84
Chapter 9 - The Hammer Forms	94
Chapter 10 - The Hammer Forms	104
Chapter 11 - The Hammer Forms	114
Chapter 12 - The Hammer Forms	124
Chapter 13 - The Hammer Forms	134
Chapter 14 - The Hammer Forms	144
Chapter 15 - The Hammer Forms	154
Chapter 16 - The Hammer Forms	164
Chapter 17 - The Hammer Forms	174
Chapter 18 - The Hammer Forms	184
Chapter 19 - The Hammer Forms	194
Chapter 20 - The Hammer Forms	204
Chapter 21 - The Hammer Forms	214
Chapter 22 - The Hammer Forms	224
Chapter 23 - The Hammer Forms	234
Chapter 24 - The Hammer Forms	244
Chapter 25 - The Hammer Forms	254
Chapter 26 - The Hammer Forms	264
Chapter 27 - The Hammer Forms	274
Chapter 28 - The Hammer Forms	284
Chapter 29 - The Hammer Forms	294
Chapter 30 - The Hammer Forms	304
Chapter 31 - The Hammer Forms	314
Chapter 32 - The Hammer Forms	324
Chapter 33 - The Hammer Forms	334
Chapter 34 - The Hammer Forms	344
Chapter 35 - The Hammer Forms	354
Chapter 36 - The Hammer Forms	364
Chapter 37 - The Hammer Forms	374
Chapter 38 - The Hammer Forms	384
Chapter 39 - The Hammer Forms	394
Chapter 40 - The Hammer Forms	404
Chapter 41 - The Hammer Forms	414
Chapter 42 - The Hammer Forms	424
Chapter 43 - The Hammer Forms	434
Chapter 44 - The Hammer Forms	444
Chapter 45 - The Hammer Forms	454
Chapter 46 - The Hammer Forms	464
Chapter 47 - The Hammer Forms	474
Chapter 48 - The Hammer Forms	484
Chapter 49 - The Hammer Forms	494
Chapter 50 - The Hammer Forms	504
Chapter 51 - The Hammer Forms	514
Chapter 52 - The Hammer Forms	524
Chapter 53 - The Hammer Forms	534
Chapter 54 - The Hammer Forms	544
Chapter 55 - The Hammer Forms	554
Chapter 56 - The Hammer Forms	564
Chapter 57 - The Hammer Forms	574
Chapter 58 - The Hammer Forms	584
Chapter 59 - The Hammer Forms	594
Chapter 60 - The Hammer Forms	604
Chapter 61 - The Hammer Forms	614
Chapter 62 - The Hammer Forms	624
Chapter 63 - The Hammer Forms	634
Chapter 64 - The Hammer Forms	644
Chapter 65 - The Hammer Forms	654
Chapter 66 - The Hammer Forms	664
Chapter 67 - The Hammer Forms	674
Chapter 68 - The Hammer Forms	684
Chapter 69 - The Hammer Forms	694
Chapter 70 - The Hammer Forms	704
Chapter 71 - The Hammer Forms	714
Chapter 72 - The Hammer Forms	724
Chapter 73 - The Hammer Forms	734
Chapter 74 - The Hammer Forms	744
Chapter 75 - The Hammer Forms	754
Chapter 76 - The Hammer Forms	764
Chapter 77 - The Hammer Forms	774
Chapter 78 - The Hammer Forms	784
Chapter 79 - The Hammer Forms	794
Chapter 80 - The Hammer Forms	804
Chapter 81 - The Hammer Forms	814
Chapter 82 - The Hammer Forms	824
Chapter 83 - The Hammer Forms	834
Chapter 84 - The Hammer Forms	844
Chapter 85 - The Hammer Forms	854
Chapter 86 - The Hammer Forms	864
Chapter 87 - The Hammer Forms	874
Chapter 88 - The Hammer Forms	884
Chapter 89 - The Hammer Forms	894
Chapter 90 - The Hammer Forms	904
Chapter 91 - The Hammer Forms	914
Chapter 92 - The Hammer Forms	924
Chapter 93 - The Hammer Forms	934
Chapter 94 - The Hammer Forms	944
Chapter 95 - The Hammer Forms	954
Chapter 96 - The Hammer Forms	964
Chapter 97 - The Hammer Forms	974
Chapter 98 - The Hammer Forms	984
Chapter 99 - The Hammer Forms	994
Chapter 100 - The Hammer Forms	1004

Contents



Chapter 1 - The Peasant's Toolkit



Chapter 2 - Building Your Own English Wheel



Chapter 3 - Building A Power Hammer From A Kit



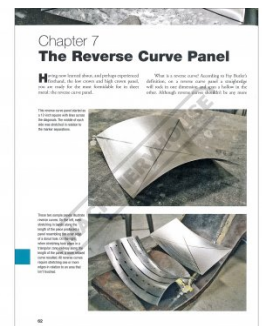
Chapter 4 - Introduction To Shape And Form



Chapter 5 - The Low Crown Panel



Chapter 6 - The High Crown Panel



Chapter 7 - The Reverse Curve Panel

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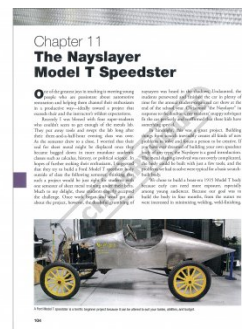
Chapter 8 - Scratch Built Fender



Chapter 9 - Patch Panelpalooza



Chapter 10 - Shiny Trim Repair



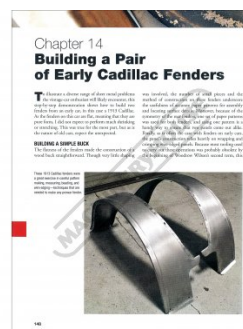
Chapter 11 - The Nayslayer Model T Speedster



Chapter 12 - Re Creating An Indy Race Car



Chapter 13 - Building An Aluminum Motorcycle Faring



Chapter 14 - Building A Pair Of Early Cadillac Fenders



Chapter 15 Building A 1934 Plymouth Fender



Chapter 16 - Pourable Foam Buck



Chapter 17 - Louvered Hoods



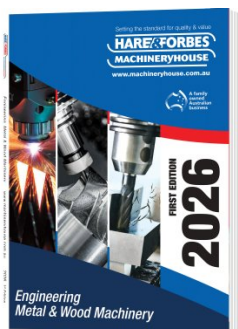
Chapter 18 - MGB Zagato

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Recommended Accessories

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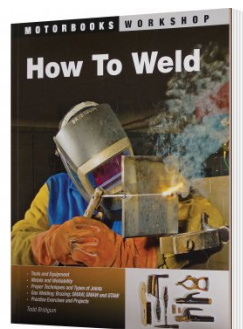
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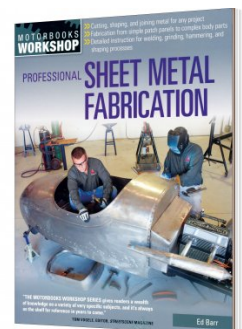
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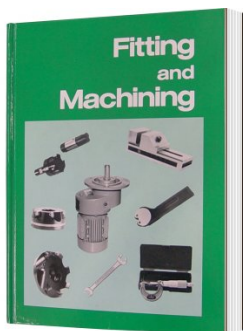
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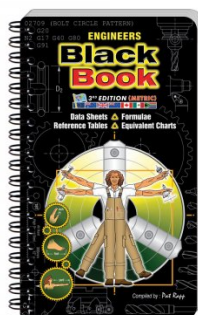
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