Photography Editor Hubert Luckett

Home Workshop Editor Sheldon M. Gallager

Science Editor Wallace Cloud

Popular Science

Mechanics and Handicraft Popular Science ®

Ernest V. Hevn Associate Publisher and Editor-in-Chief

KENDALL W. GOODWYN Managing Editor EVERETT H. ORTNER

HARRY SAMUELS Art Director

DEVON FRANCIS Special Assistant to the Editor

ROBERT P. STEVENSON Editor, Home and Shop Group HUBERT LUCKETT Senior Editor Alden P. Armagnac Editor, Technical Group Automotive Editor James R. Whipple

Copy Chief Boating Editor Jim Roe Electronics Editor Ronald M. Benrey

West Coast Editor Wesley S. Griswold European Editor David Scott

Associate Editors Frank Dorr, Herbert O. Johansen Herbert Shuldiner, Ruth Westphal JOHN R. WHITING, Executive Vice-President and Publisher

Art Editors Herbert Anthony, Richard J. Meyer Art Associate Frank G. Bland

Art Production Manager Henry W. Kazmirowski

Editorial Assistants Editorial Assistants Ruth Velazco (Chief) Eleanor Crapullo, Ann Dallas Sandra Horn, Claire B. Kelly Irene Ratner, Mary Rose Schneider

ROBERT P. CROSSLEY, Consulting Editor

Cover photo by Bob Borst

JAMES M. LISTON Executive Editor



Are small cars more dangerous? Read both sides of the story! Page 71.



Now you can store your lathe right in your workbench. Page 180.



Think you know casters? This PS roundup is full of surprises. Page 174.

2 POPULAR SCIENCE FEBRUARY 1965

SHES AND DRIVING

"Say, Smokey_" · 12 Detroit Report · 64 More Danger in a Small Car? 7 Inside Indy with Smokey Yunick · 81 PS Compares the Compacts • 92 Race Cars of the World · 130 HOME AND SHOP

Get the Best from Twist Drills • 148 Ideas for Better Kitchen Cabinets • 152 In Appliances, the Contact Counts · 156 The Fine Art of Drawer Making · 160 What's New in Tools · 166 Interior Clear Finishes · 168 Shallow Cabinet for a Hallway · 172
The Smart M. Resters · 174

The Smart New Look in Casters · 174
4-Way World Look in Casters · 174
Can Build · 18 4-Way Workbench You Can Build · 180 SPECIAL REPORT.

Caging a River to Build a Dam. 126

SCIENCE AND INVENTION LBJ's Heart—and Yours • 74
Expandal, Coreac A Combat Rifle for Sport • 171 Copyright @ 1965 by Popule: Science Publishing Co., Inc.

SPECIAL 24-PAGE ROUNDUP: **BOATS AND BOATING**

Merc's Small-Boat Stern Drive • 100 5 Tips for Outboarding • 103 Build Piers, Floats, Boathouses • 104 How Hulls Are Made • 108 What's New in Boating for '65 · 112 Build this Flyweight Trailer • 116 Dock and Depart with Dignity • 118 Down to the Sea with Your Ship • 122

SPACE AND AVIATION

The Airplane That Lands Itself • 78 Dr. von Braun: Space Stations • 88 Inside Our Two-Man Spacecraft • 142

TV, RADIO, AND ELECTRONICS

Tiny TV Sets Are "In" • 84 What's New in Electronics • 155

PHOTOGRAPHY

What's New in Photography • 139 A's to Your Q's About Exposure • 140

YOU AND YOUR JOB

Getting Ahead • 18 Armed Forces Careers • 136

AUTO UPKEEP

Gus Breaks Up a Traffic Jam • 184 Hints from the Model Garage • 190

PICTURE NEWS

Helicopter "Sits" on Water • 90 Research Sub Doubles as Diving Bell • 98 Whole Library in a Nutshell • 125 Radar Picks Up Mile-High Fly • 134

SHORT CUTS AND TIPS

Round Tenon from a Square Cut • 66 Precision Depth-of-Cut Indicator • 151 Stand for Ganged Photo Reflectors • 165

EVERY MONTH

PS Readers Talk Back • 6 Science Newsfront • 29 I'd Like to See Them Make • 97 New Ideas from the Inventors • 146 Wordless Workshop • 194



Sam Hanks, Indianapolis "500" champion and driving safety expert, says-

"Extra weight in your car can be as dangerous as a load of dynamite."

"Monroe rear Load-Leveler® stabilizing units make any car ride its level best . . . give a safe, comfortable ride with added loads of passengers or luggage. They prevent bottoming on bumps, swaying on curves. Greatly improve ride control and help extend tire life by holding wheels in solid contact with the road."

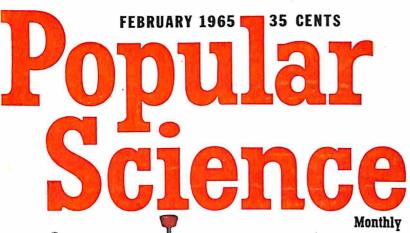
Have a set installed today in just 30 minutes where you have your car serviced.



World leader on highway and speedway

MONROE AUTO EQUIPMENT COMPANY . Monroe, Mich. In Canada, MONROE-ACME, LTD., Toronto, Ont. In Mexico, MEX-PAR, Box 28154, Mexico City





LBJ's HEART What the medics have learned about his and yours

RACE CARS of the WORLD

—a complete spec chart

WHICH COMPACT FOR YOU?

Falcon, American, Valiant, Chevy II



TINY TV SETS ARE "IN" A Buyer's Guide



NNIN ST

MINNEAPOLIS

41165 492592AND3222AG042

EIC., EIC.