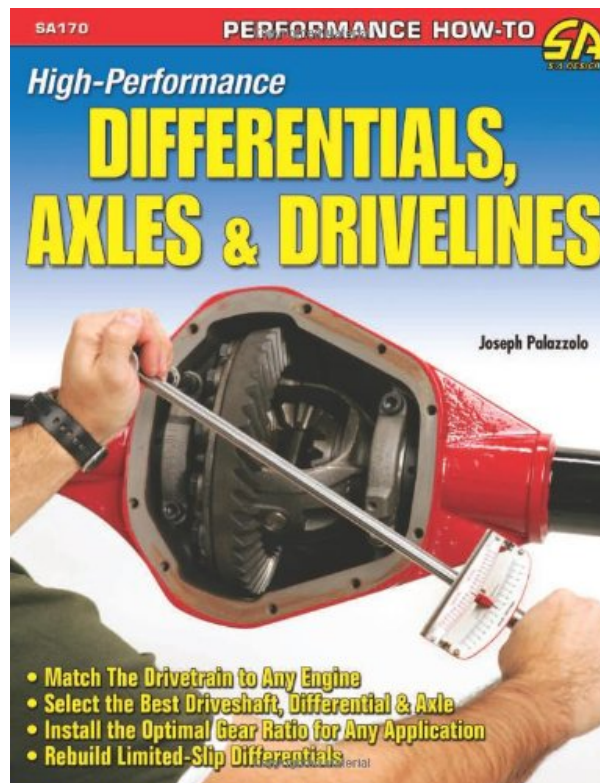


# HIGH-PERFORMANCE DIFFERENTIALS, AXLES, AND DRIVELINES BY JOE PALAZZOLO



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PERFORMANCE HOW-TO



*High-Performance*

# DIFFERENTIALS, AXLES & DRIVELINES

Joseph Palazzolo



- Match The Drivetrain to Any Engine
- Select the Best Driveshaft, Differential & Axle
- Install the Optimal Gear Ratio for Any Application
- Rebuild Limited-Slip Differentials

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As one of the home window to open up the brand-new globe, this *High-Performance Differentials, Axles, And Drivelines By Joe Palazzolo* provides its amazing writing from the author. Published in one of the preferred publishers, this publication High-Performance Differentials, Axles, And Drivelines By Joe Palazzolo turned into one of the most ideal publications just recently. In fact, the book will not matter if that High-Performance Differentials, Axles, And Drivelines By Joe Palazzolo is a best seller or not. Every publication will certainly still provide ideal resources to obtain the visitor all finest.

## Review

"Like all CarTech books, it's loaded with over 400 color photos, plus diagrams and illustrations that make it a must-have reference book on your shop's bookshelf." (Mopar Muscle 2010-02-01)

## From the Back Cover

A high-performance vehicle must have a high-performance driveline. All too often an owner builds an engine with monstrous horsepower, but the axle, differential, or driveline components cannot handle the increased torque. When the driver accelerates hard, the axle snaps or the rear end chunks. Whether it's a muscle car, sports car, or truck, a vehicle is only as strong as its weakest link, and the drivetrain must match the performance of the engine, tires, and suspension. High-Performance Differentials, Axles, and Drivelines covers everything the enthusiast mechanic needs to know about selecting the most desirable gear ratio, rebuilding differentials and other driveline components, and most importantly matching the correct driveline components to engine power output. All the horsepower and torque in the world is useless unless you can transmit it to the pavement. This book shows you how to make the most of a vehicle's horsepower. It shows you how to set up a limited-slip differential, install high-performance axle shafts, swap out differential gears, and select the best available products for the driveline. It also reveals setups for the Chevy 12-bolt, Ford 9-inch, Dana units, and many other popular high-performance axles and rear ends. In addition, this book explains rear differential basics, rebuilding open differentials, ring and pinion gear operation. Axles, driveshafts, and U-joints are also discussed in detail. With this book in hand, you will be able to buy, install, maintain, and set up a drivetrain for almost any vehicle and application.

## About the Author

Joe Palazzolo is currently a chief engineer at GKN Driveline Torque Technology Group where he manages the mechanical design and development of new automotive torque transfer devices, concepts, and integration into production applications. He has received numerous patents for his innovative work and creativity in advancing vehicle mobility systems.

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All too often, when an enthusiast builds a high-performance engine, swaps a more powerful engine into a car, or mounts sticky tires, the driveline components simply can't handle the added torque and fail. In addition, differential, axles, and driveline parts have a limited life span under the power of a high-performance engine. Also, the proper gear ratios need to be selected and installed for maximum performance on the street, strip, or track. The performance of the driveshaft, differential, axle, and other driveline components needs to match the performance level of a particular engine, so maximum efficiency, longevity, and reliability can be realized.

This book covers everything you need to know about selecting the most desirable gear ratio, rebuilding differentials and other driveline components, and most importantly, matching the correct driveline components to engine power output. Learn how to set up a limited-slip differential, install high-performance axle shafts, swap out differential gears, and select the best available products for the driveline. This book covers the Chevy 12-bolt, Ford 8.8-inch, Dana units, and many other popular high-performance axles and rear ends. In addition, it explains rear differential basics, rear differential housings, rebuilding open rear differentials, limited-slip differentials, and factory differentials. Ring and pinion gears, axle housings, axle shafts, driveshafts, and U-joints are also covered.

- Sales Rank: #259674 in Books
- Brand: Sa Design
- Published on: 2009-10-05
- Original language: English
- Number of items: 1
- Dimensions: 11.00" h x .38" w x 8.50" l, 1.07 pounds
- Binding: Paperback
- 144 pages

## Features

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#### Most helpful customer reviews

1 of 1 people found the following review helpful.

Does not teach you how to work on a Differential

By E. Klang

If you buy this based on the cover showing someone rebuilding or changing the gear ratio on their car, you made a mistake.

It's more about different kinds of differentials and basic facts and History.

I have to say, it did not do it for me. I wanted something that would teach me how to work on a differential myself, change gears or maybe put in some sort of limited-slip/positraction unit.

0 of 0 people found the following review helpful.

Great book

By Chris W.

I already had a good understanding of rear differentials before this but it has filled in any grey areas I had. As others have said he tends to lean to the Ford side of the house, which was good for me because so do I. There is still tons of info about mopar and chevy rear ends and even some exotic stuff. I would say its a great buy whether you have rebuilt several differentials or are just a beginner trying to learn your first one.

1 of 1 people found the following review helpful.

Good overview, not a shop manual

By J. Runaas

Good overview if you are mainly interested in muscle car axles. High performance in this context excludes sports cars (not going to build a Lotus 7 replica with a 12 bolt or Dana 70, that is for sure!) and high performance off road trucks. The rebuilding sections are ok and probably useful, but we'll see when I get into my Impala's axle how many of the hints and tips are useful. Certainly not a shop manual, do not buy with that intent. Very good overview on the subject for someone with limited knowledge who wants to make informed decisions for their muscle car.

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