



# Jeep, Dana & Chrysler Differentials: How to Rebuild the 8-1/4, 8-3/4, Dana 44 & 60 & AMC 20 (Workbench How to)

By Larry Shepard

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## Jeep, Dana & Chrysler Differentials: How to Rebuild the 8-1/4, 8-3/4, Dana 44 & 60 & AMC 20 (Workbench How to) By Larry Shepard

Over the last 40 years, millions of Chrysler, AMC, and Jeep vehicles have used these differentials, propelling these high-performance vehicles to victory on the street, in drag racing, and other applications. Chrysler used the Dana 60 and BorgWarner Sure-Grip high-performance differentials in the Challenger, Charger, Barracuda, Super Bee and many other renowned Chrysler muscle cars. These differentials have been tied to historic powerhouse engines, such as the Chrysler Magnum and Hemi V8s in stock car, drag racing, and other forms of racing, making history in the process. Jeep CJs and Cherokees have used the Dana 44 and AMC 20 and put these differentials under tremendous loads, which often requires frequent rebuilds. After years of use, these differentials require rebuilding, and of course aftermarket suppliers offer ring and pinion and other parts to upgrade these axles.

In this Workbench series title, the focus is on the disassembly, inspection and step-by-step rebuild of the most popular high-performance differentials. Axles and differentials are not incredibly complex components, but there are some specific steps to follow for rebuilding, upgrading, and setting them up properly, and this book demystifies the process and explains it in detail. A book dedicated to the Dana, Sure-Grip, and AMC Jeep axles has never been published before, and Mopar, Jeep and AMC enthusiasts are hungry for this information. The Dana and AMC axles should remain in wide use into the foreseeable future, and therefore there will be a consistent demand for this information.

This book will also feature extensive gear and application charts, so the reader is sure to select the correct gear ratio for a particular vehicle and application. Special coverage is therefore dedicated to ring and pinion gears. In addition selecting the best aftermarket and production axle shafts is covered as well as modifying and upgrading the differential housings.

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### Editorial Review

#### Review

"Thorough and well illustrated with photos and diagrams, this book is an invaluable resource for the hardcore gearhead." -Drew Hardin, Muscle Car Review, November 2013 (Drew Hardin *Muscle Car Review* 2013-10-21)

"An essential mine of information on a crucial area of your car, and a resource that owners of such components can't do without." -tkc magazine, November/December 2013 (*tkc magazine* 2013-11-01)

#### From the Inside Flap

Over the last 40 years, millions of Chrysler, AMC, and Jeep vehicles have used these differentials, propelling these high-performance vehicles to victory on the street, in drag racing, and other applications. Chrysler used the Dana 60 and BorgWarner Sure-Grip high-performance differentials in the Challenger, Charger, Barracuda, Super Bee and many other renowned Chrysler muscle cars. These differentials have been tied to historic powerhouse engines, such as the Chrysler Magnum and Hemi V8s in stock car, drag racing, and other forms of racing, making history in the process. Jeep CJs and Cherokees have used the Dana 44 and AMC 20 and put these differentials under tremendous loads, which often requires frequent rebuilds. After years of use, these differentials require rebuilding, and of course aftermarket suppliers offer ring and pinion and other parts to upgrade these axles.

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#### From the Back Cover

Dana, Chrysler, and AMC differentials effectively put the power to the ground for some of the most iconic Chrysler and AMC muscle cars, best Jeep models, and millions of passenger cars. To tap the performance potential of your vehicle, you need a differential and axle assembly that contains correct gear ratio, proper setup, and fine-working components, or the differential needs to be rebuilt. Author Larry Shepard provides comprehensive guidance on how to complete a professional rebuild of these differentials. Explanatory step-by-step captions and detailed color photos take you through each crucial step for rebuilding many of these Dana, Chrysler, and AMC axles.

These are some of the strongest and highest performing carrier-tube axles on the market. In fact, these stout axles transmitted the torque from 500-plus-horsepower Hemi and big-block Chrysler muscle cars. The

Chrysler 7- and 8-inch carrier tube axles and the 8-inch banjo axle are also covered. The 8 is a strong and reliable axle with a removable third member that can compete against the Ford 9-inch. The book also provides complete rebuild procedures for the AMC 20 that was fitted to many Jeep and AMC passenger cars.

After miles of use and/or years of abuse, pinions and rings wear out, bearings fail, gaskets and seals leak, requiring a complete rebuild. You learn how to identify, completely disassemble, and inspect the critical parts of open and limited-slip differentials. You also find information to help you select and replace ring-and-pinion gears and other critical parts. In addition, you are shown how to install ring-and-pinion gears, side gears, bearings, and related parts.

## **Users Review**

### **From reader reviews:**

#### **James Sanchez:**

Information is provisions for individuals to get better life, information nowadays can get by anyone from everywhere. The information can be a expertise or any news even restricted. What people must be consider when those information which is inside former life are challenging be find than now could be taking seriously which one is acceptable to believe or which one often the resource are convinced. If you receive the unstable resource then you get it as your main information we will see huge disadvantage for you. All those possibilities will not happen with you if you take *Jeep, Dana & Chrysler Differentials: How to Rebuild the 8-1/4, 8-3/4, Dana 44 & 60 & AMC 20 (Workbench How to)* as your daily resource information.

#### **Dale Hollander:**

Playing with family inside a park, coming to see the ocean world or hanging out with good friends is thing that usually you may have done when you have spare time, then why you don't try issue that really opposite from that. A single activity that make you not experience tired but still relaxing, trilling like on roller coaster you already been ride on and with addition associated with. Even you love *Jeep, Dana & Chrysler Differentials: How to Rebuild the 8-1/4, 8-3/4, Dana 44 & 60 & AMC 20 (Workbench How to)*, you are able to enjoy both. It is very good combination right, you still need to miss it? What kind of hang-out type is it? Oh seriously its mind hangout men. What? Still don't buy it, oh come on its identified as reading friends.

#### **David Miller:**

Are you kind of hectic person, only have 10 or even 15 minute in your time to upgrading your mind skill or thinking skill also analytical thinking? Then you have problem with the book than can satisfy your short time to read it because this time you only find e-book that need more time to be go through. *Jeep, Dana & Chrysler Differentials: How to Rebuild the 8-1/4, 8-3/4, Dana 44 & 60 & AMC 20 (Workbench How to)* can be your answer since it can be read by anyone who have those short spare time problems.

#### **Laurence Asher:**

As a college student exactly feel bored to reading. If their teacher inquired them to go to the library in order

to make summary for some guide, they are complained. Just small students that has reading's spirit or real their passion. They just do what the teacher want, like asked to the library. They go to presently there but nothing reading really. Any students feel that studying is not important, boring along with can't see colorful images on there. Yeah, it is to be complicated. Book is very important for yourself. As we know that on this age, many ways to get whatever we want. Likewise word says, ways to reach Chinese's country. Therefore , this **Jeep, Dana & Chrysler Differentials: How to Rebuild the 8-1/4, 8-3/4, Dana 44 & 60 & AMC 20 (Workbench How to)** can make you sense more interested to read.

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