

[Table Of Contents](#)

**About the Author**

**Acknowledgments**

**Preface**

**Introduction**

**Chapter 1**

Choose Your Ride

Dodge Charger 2006–2010

Dodge Charger 2011–2014

Dodge Challenger 2008–2014

Chrysler 300 2005–2014

Dodge Magnum 2005–2008

**Chapter 2:**

Basic Engine Identification

5.7-Liter Hemi 2003–2008

5.7-Liter Hemi 2009–2014

6.1-Liter Hemi 2005–2010

6.4-Liter Hemi (392) 2011–2014

Engine Accessories

Intake Manifolds

Transmissions

Rear Ends

Hemi Engine Technology

Variable Camshaft Timing

**Chapter 3:**

Bolt-On Performance

Programmable Tuners

Custom Tuning

Project: DiabloSport I-1000 Installation

Cold-Air Intakes

Project: Cold-Air Kit Installation

Headers

Stock Exhaust System

Performance Exhaust Systems

Performance System Types

Project: TTi Full Exhaust Installation

Nitrous Oxide

Throttle Body

Clutch Assembly

Project: Ram Clutches Performance Clutch Installation

## **Chapter 4:**

Modifying Your Engine

Supercharger and Turbocharger Design

Project: ProCharger Supercharger Installation

Fuel Selection

Intercooler

Built-In Durability

Pistons

Connecting Rods

Crankshaft Dampener

Harmonic Balancer

Cylinder Heads

Camshaft

Stroker Engines

Valvetrain

## **Chapter 5:**

Custom-Built Engine Packages

Buy or Rebuild

Cost Considerations

## Quality and Reliability Factors

### **Chapter 6:**

Suspension, Brakes and Chassis

Front Suspension

Rear Suspension

Tires

Springs and Shocks

Noise Isolation

Step-Out

Bushing Basics

Frame Details

Project: Hotchkis Suspension Installation

Racing Considerations

Strut Bracing

Body Bridging

Roll Bar or Roll Cage

Suspension Upgrades

Aftermarket Brake Upgrades

Performance Brake Kits

Wheel Alignment

### **Source Guide**