



Table Of Contents

Preface

Chapter 1: Suspension Basics

Read this First!

Whaty Lift Systems Affect

Common Misconceptions Regarding Lift Systems

Determining Which Lift System is Best for You

What to Look for in a Lift System

The Domino Effect

Chapter 2: Suspension Theory

What Goes on Behind the Scenes

Suspension Geometry

Alignment Explained

Leaf Spring Tech

Coil Spring Tech

Shock Absorbers

Chapter 3: Solid Front Axle with Leaf Springs

Basic Anatomy

Steering

The Specifics

'69-'91 Chevy Trucks

'41-'95 Jeep CJs and Yjs

'99-'04 Super Duty Trucks

'79-'85 Toyota Pickups

Other Applications

Chapter 4: Solid Axle with Coil Springs

Shocking Matters

In a Bind

The Infamous “Death Wobble”

Coild vs. Coil-overs

Ford Trucks

Jeep Vehicles

Dodge Trucks

Chapter 5: Twin-Traction Beam (TTB)

How It Works

Lift System Basics

Alignment Matters

Steering Straight

Tire Wear

Radius Arms

Choosing the Right Spring

The Bottom Line

Chapter 6: Independent Front Suspension (IFS) with Torsion Bars

How It Works

Suspension Basics

The Bracket Method

Knuckle Method

Control Arms

Differential/CV Axles

Skid Plates

Torsion Bars

Steering

Controlling Suspension Travel

Other Issues

Shorter Lift Systems

Chapter 7: Independent Front Suspension with Struts

Suspension Basics

Lift Systems Basics

Traction Control: New Challenges

Knuckles and Subframes

Strut Matters

Shorter Lifts

Chapter 8: Rear Suspension

Leaf Springs: The Gold Standard

Coil Springs

Axle Wrap

Driveline Vibration

Chapter 9: Custom and High-Performance Suspension Systems

Ready-Made High Performance

Tube Tech Chassis

Other Suspension Designs

Racing Inspiration

The Domino Effect

Appendix A: Suspension Glossary

Appendix B: Source Guide