

Toyota Active Height Control: Overview and Bleeding

Diagram #1
AHC Pump



Height Control Pump Motor
Fluid Pressure Sensor
Fluid Temp Sensor



1998 -2007 Toyota Land Cruiser 100 Series

1998 -2007 Lexus LX570

2002 -2007 Lexus LX470

Self-levelling refers to a suspension system that maintains a constant ride height of the vehicle, regardless of load. Toyota has been using their system called Active Height Control (AHC) Suspension since 1998 in the 100 series Land Cruiser and the Lexus LX470 and LX570. This article will give an overview of its operation, common issues, pressure relief and bleeding procedure.

Operation

Citroën was the first to introduce self-levelling suspension using a hydropneumatic system in 1955.

These systems use a combination of pressurised oil and gas to provide a sensitive, dynamic and high-capacity suspension, that offered superior ride quality on a variety of surfaces. Similar systems have been made under licence by many manufacturers. Toyota is one of these.

Hydropneumatic self-levelling suspension uses the combined advantages of hydraulic systems which use incompressible liquids inside a closed system, to transmit pressure and force, and pneumatic systems that use a compressible gas to act as highly efficient spring and shock dampener.

The hydraulic part of the system uses an electrically driven pump to raise and lower the vehicle by varying the volume of fluid in the hydraulic

circuit. **See Diagram #1.** This fluid also transfers the road forces from the suspension to the pneumatic elements of the system.

These pneumatic elements use nitrogen gas as a spring medium which is approximately six times more flexible than traditional steel springs. The Toyota / Lexus suspension looks like a conventional system as it still has torsion bar springs at the front and coil springs at the rear with what looks like shock absorbers on each corner. However, these springs are lighter than on vehicle variants without AHC suspension, as the nitrogen-filled spheres or globes on the Damping Force Control Actuators on the chassis rails are acting as the springs and shock absorbers.

See Diagram #6 & #7. ➔

Diagram #2

Height Control and Suspension Mode Switches

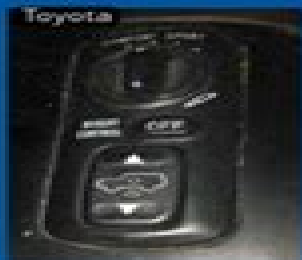


Diagram #3

Height Indicator Lights



Toyota Ahc Codes

L Cohen

A red circular graphic with a gradient, appearing as a stylized arrow or a partial circle, located to the right of the author's name.

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Table of Contents Toyota Ahc Codes

1. Understanding the eBook Toyota Ahc Codes
 - The Rise of Digital Reading Toyota Ahc Codes
 - Advantages of eBooks Over Traditional Books
2. Identifying Toyota Ahc Codes
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Toyota Ahc Codes
 - User-Friendly Interface
4. Exploring eBook Recommendations from Toyota Ahc Codes
 - Personalized Recommendations
 - Toyota Ahc Codes User Reviews and Ratings
 - Toyota Ahc Codes and Bestseller Lists

5. Accessing Toyota Ahc Codes Free and Paid eBooks
 - Toyota Ahc Codes Public Domain eBooks
 - Toyota Ahc Codes eBook Subscription Services
 - Toyota Ahc Codes Budget-Friendly Options
6. Navigating Toyota Ahc Codes eBook Formats
 - ePub, PDF, MOBI, and More
 - Toyota Ahc Codes Compatibility with Devices
 - Toyota Ahc Codes Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Toyota Ahc Codes
 - Highlighting and Note-Taking Toyota Ahc Codes
 - Interactive Elements Toyota Ahc Codes
8. Staying Engaged with Toyota Ahc Codes
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Toyota Ahc Codes
9. Balancing eBooks and Physical Books Toyota Ahc Codes
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Toyota Ahc Codes
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Toyota Ahc Codes
 - Setting Reading Goals Toyota Ahc Codes
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Toyota Ahc Codes
 - Fact-Checking eBook Content of Toyota Ahc Codes
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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