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Ridetech Chevy Nova Level 3 Street Challenge

RideTech Air Suspension System User Manual

Model: Chevy Nova Level 3 Street Challenge (Part No. 11250399)

1. PRODUCT OVERVIEW

The RideTech Level 3 Street Challenge Complete Air Suspension System is designed for 1962-1967 Chevy Nova vehicles. This comprehensive kit provides a significant upgrade to your vehicle's suspension, offering adjustable ride height, improved ride quality, and enhanced handling capabilities. It is engineered to transform your classic car into a high-performance machine suitable for both comfortable cruising and aggressive track use.

This system integrates advanced components to deliver a versatile and dependable suspension solution.



Figure 1: Overview of the RideTech Level 3 Street Challenge Air Suspension System components. This image displays the various parts included in the kit, such as the ShockWaves, AirBar 4-link system, MuscleBar sway bar, and the RidePro Digital AirPod system.

2. PACKAGE CONTENTS

The RideTech Level 3 Street Challenge system includes the following key components:

- Master Series Double Adjustable ShockWaves (Front & Rear)
- Billet Tie Rod Adjusters
- MuscleBar Sway Bar with Posi-Links
- AirBar Rear 4-Link Suspension System

- RidePro Digital 4-way AirPod Air System with LevelPro Sensors, 3-Gallon Tank, Single Compressor, and Handheld Remote Control Option
- All necessary mounting hardware, air lines, fittings, and detailed instructions.

3. INSTALLATION AND SETUP

Installation of the RideTech Level 3 Street Challenge Air Suspension System requires advanced mechanical knowledge and specialized tools. It is highly recommended that installation be performed by a qualified professional.

3.1 Pre-Installation Checklist

- Ensure all package contents are present and undamaged. Refer to Section 2.
- Gather all necessary tools, including jacks, jack stands, wrenches, air tools, and specialized suspension tools.
- Review the detailed installation manual provided with the kit thoroughly before beginning.
- Disconnect the vehicle's battery before starting any electrical work.

3.2 General Installation Steps (Summary)

1. Safely lift and secure the vehicle on jack stands or a lift.
2. Remove existing suspension components (springs, shocks, sway bars).
3. Install the AirBar Rear 4-Link Suspension System according to the specific vehicle instructions.
4. Mount the Master Series Double Adjustable ShockWaves at all four corners.
5. Install the MuscleBar Sway Bar and Billet Tie Rod Adjusters.
6. Mount the RidePro Digital AirPod system, including the compressor, tank, and manifold, in a secure location.
7. Route air lines and electrical wiring, ensuring no kinks or interference with moving parts.
8. Connect the LevelPro Sensors and the handheld remote control.
9. Perform initial system calibration as per the RidePro instructions.
10. Lower the vehicle and perform a final inspection and leak test.

For detailed, step-by-step installation instructions, please refer to the dedicated installation guide included with your RideTech system or visit the official RideTech support website.

4. OPERATING THE SYSTEM

The RidePro Digital 4-way AirPod system allows for precise control over your vehicle's ride height and suspension characteristics.

4.1 RidePro Digital Control

- **Power On/Off:** Use the designated button on the handheld remote or main unit to power the system.
- **Preset Heights:** The system allows you to program multiple ride height presets (e.g., "Ride Height," "Show Height," "Low Height"). Refer to the RidePro manual for programming instructions.
- **Manual Adjustment:** Use the directional buttons on the remote to manually adjust individual air springs or all four simultaneously.
- **LevelPro Sensors:** These sensors provide real-time feedback on your vehicle's height, allowing the system to maintain desired levels automatically.

4.2 ShockWave Adjustment

The Master Series Double Adjustable ShockWaves allow for independent adjustment of compression and rebound damping. This enables fine-tuning of the ride for various driving conditions and preferences.

- **Compression Adjustment:** Typically located at the bottom of the shock body. Adjusts the resistance during shock compression.
- **Rebound Adjustment:** Typically located at the top of the shock body. Adjusts the resistance during shock extension.
- Refer to the ShockWave specific instructions for detailed adjustment procedures and recommended settings.

5. MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your RideTech air suspension system.

- **Air Line Inspection:** Periodically check all air lines for kinks, chafing, or leaks. Repair or replace as necessary.
- **Fittings and Connections:** Ensure all air fittings are tight and free of leaks. Use a soapy water solution to check for bubbles.
- **Compressor Filter:** Inspect and clean or replace the air compressor's intake filter regularly, especially if operating in dusty environments.
- **Shock Absorbers:** Check ShockWaves for any signs of leaks or damage. Clean any accumulated dirt or debris.
- **Mounting Hardware:** Verify that all mounting bolts and nuts for the suspension components and air system are securely tightened.
- **System Calibration:** Re-calibrate the RidePro system if you notice inconsistencies in ride height or after significant suspension work.

6. TROUBLESHOOTING

This section provides solutions to common issues you might encounter with your air suspension system.

Problem	Possible Cause	Solution
System not inflating/deflating	No power to compressor/manifold; Blown fuse; Air leak; Compressor failure.	Check power connections and fuses. Inspect air lines for leaks. Verify compressor operation. Consult RideTech support if compressor is faulty.
Vehicle not leveling correctly	Faulty LevelPro sensor; Air leak; System calibration issue.	Check sensor connections. Inspect for air leaks. Re-calibrate the RidePro system.
Excessive compressor noise/run time	Air leak in system; Clogged compressor filter.	Locate and repair air leaks. Clean or replace compressor air filter.
Uneven ride height (side to side)	Air leak in one air spring/line; Sensor issue; Uneven weight distribution.	Check for leaks on the lower side. Verify sensor readings. Adjust manual pressure if necessary.

If you are unable to resolve an issue using this guide, please contact RideTech technical support.

7. SPECIFICATIONS

Attribute	Detail
Manufacturer	Ridetech

Attribute	Detail
Brand	Ridetech
Item Model Number	Chevy Nova Level 3 Street Challenge
Manufacturer Part Number	11250399
OEM Part Number	11250399
ASIN	B006M474VG
Item Weight	99.8 kg (220 lbs)
Compatible Vehicles	1962, 1963, 1964, 1965, 1966, 1967 Chevy Nova

8. WARRANTY AND SUPPORT

RideTech products are manufactured to the highest standards and are backed by a commitment to quality. Specific warranty details for the Level 3 Street Challenge Air Suspension System are provided with your purchase documentation. For technical support, warranty claims, or additional information, please contact RideTech directly:

- **Website:** www.ridetech.com
- **Customer Service:** Refer to the contact information on the official RideTech website or your product documentation.

Always provide your product model number (Chevy Nova Level 3 Street Challenge) and manufacturer part number (11250399) when contacting support.

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This manual is subject to change without notice. Please refer to the latest version on the manufacturer's website.