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Nitrous Outlet 00-61002

Nitrous Outlet ProMax Dual Channel Progressive Controller Instruction Manual

Model: 00-61002

Introduction

The Nitrous Outlet ProMax Progressive Controller is an advanced system designed to optimize nitrous delivery for performance applications. It integrates system activation and safety functions with extensive tuning and traction aids. This manual provides essential information for the proper installation, operation, and maintenance of your ProMax controller.

Package Contents

Verify that all components are present before beginning installation:

- ProMax Progressive Controller Unit
- 20 Pin Connector Wiring Harness
- USB Flash Drive (for software and tune storage)
- USB Cable (for PC connection)

Figure 1: ProMax Progressive Controller, 20-pin connector, USB flash drive, and USB cable.

Setup and Installation

Proper installation is crucial for the safe and effective operation of the ProMax controller. It is recommended that installation be performed by a qualified technician.

1. **Mounting the Controller:** Select a secure, dry location away from excessive heat and vibration. Ensure adequate space for wiring connections. The controller can be mounted using the integrated mounting tabs.

Figure 2: Example installation of the ProMax controller in a vehicle's glove compartment.

2. **Wiring Connections:** Connect the 20-pin wiring harness to the controller. Carefully follow the wiring diagram provided in the separate wiring guide (not included in this manual) for connecting to vehicle power, ground, sensors (Vehicle Speed, Trans Brake, MAP Sensor, Wide Band O2, Nitrous Pressure, Fuel Pressure), and solenoid drivers.

3. **PC Connection:** Connect the controller to a PC/laptop using the provided USB cable for initial setup and programming.
4. **Software Installation:** Install the ProMax tuning software from the provided USB flash drive onto your PC.

Figure 3: The ProMax controller with its wiring harness and USB cable for connection.

5. **Firmware Update:** Ensure the controller has the latest firmware. Firmware updates can be performed via the PC software.

Operating Instructions

The ProMax controller offers extensive tuning capabilities. Refer to the software manual for detailed instructions on each function.

- **Progressive Control:** Configure progressive ramps based on time, throttle percentage, engine RPM, vehicle speed, or manifold pressure. Adjustable frequency output (10-30 Hz) for solenoids.
- **Multiple Stages:** Control up to two independent stages using the built-in 70 Amp solenoid drivers.
- **Closed Loop Fuel Control:** Configure one stage for closed-loop fuel adjustment based on wideband O2 input.
- **Tune Storage:** Store up to 5 different tune-ups internally.
- **Ignition Retard:** Utilize two ignition retard outputs for precise timing control.
- **RPM Window Switch:** Integrated RPM window switch with multi-gear lockout feature.
- **Activation:** Activate the system via TPS (Throttle Position Sensor) or WOT (Wide Open Throttle) switch.
- **Datalogging:** Record operational data for analysis and tuning optimization.
- **Resume/Restart Feature:** Option for the controller to resume an interrupted time-based ramp or restart based on TPS going out of range.
- **Optional Display:** An optional 4.3-inch full touch screen display allows for real-time data viewing and setup without a PC.

Maintenance

The Nitrous Outlet ProMax controller is designed for reliability with minimal maintenance. Adhere to the following guidelines:

- **Regular Inspection:** Periodically inspect all wiring connections for security and signs of wear or damage.
- **Cleanliness:** Keep the controller unit clean and free from dust, dirt, and moisture. Use a soft, dry cloth for cleaning. Do not use harsh chemicals or abrasive cleaners.
- **Firmware Updates:** Check the Nitrous Outlet website periodically for firmware updates to ensure optimal performance and access to new features.
- **Environmental Protection:** Ensure the controller remains in a dry environment, protected from extreme temperatures and direct exposure to elements.

Troubleshooting

This section provides general troubleshooting steps. For specific issues, consult the detailed software manual or contact technical support.

Problem	Possible Cause	Solution
Controller not powering on	Incorrect wiring, blown fuse, loose connection	Verify power and ground connections. Check vehicle fuses. Ensure harness is securely connected.
Nitrous system not activating	Incorrect activation settings, solenoid driver issue, sensor malfunction	Check activation parameters in software (TPS, WOT, RPM). Test solenoid drivers. Verify sensor inputs.
PC software not connecting to controller	USB cable issue, driver not installed, controller not powered	Ensure controller is powered. Try a different USB port/cable. Reinstall USB drivers.
Inconsistent nitrous delivery	Incorrect progressive ramp settings, pressure fluctuations, solenoid issues	Review progressive ramp settings. Check nitrous bottle pressure. Inspect solenoids for proper function.

Specifications

Feature	Detail
Model Number	00-61002
Manufacturer	Nitrous Outlet
Product Dimensions	6 x 7 x 12 inches
Item Weight	3 pounds
Solenoid Drivers	2 independent, 70 Amp
Progressive Frequency	10-30 Hz (adjustable by 1 Hz)
Tune Storage	Up to 5 internal tune-ups
Ignition Retard Outputs	2
Inputs	Vehicle Speed, Trans Brake, MAP Sensor, Two Wide Band O2 sensors, Two Nitrous Pressure Sensors, Fuel Pressure Sensor
Connectivity	USB, CAN Bus Output

Feature	Detail
Special Features	Updateable Firmware, Datalogging Capable, Multi-gear lockout, Resume and restart feature

Warranty Information

Nitrous Outlet products are manufactured to high standards. For specific warranty terms and conditions, please refer to the official warranty statement included with your product or visit the Nitrous Outlet official website. Keep your proof of purchase for warranty claims.

Legal Disclaimer: *Nitrous Outlet is not responsible for parts not being smog-legal in your area. Many parts are not legal for sale or use in California, or on any pollution controlled vehicle. It is your responsibility to be aware of your local emissions laws and checking for legality of any parts purchased.*

Support

For technical assistance, questions regarding installation, operation, or troubleshooting, please contact Nitrous Outlet customer support:

- **Phone:** (866) 648-7637
- **Email:** sales@nitrousoutlet.com
- **Website:** Visit the official Nitrous Outlet website for additional resources, FAQs, and software downloads.

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Related Documents - 00-61002

	Nitrous Outlet 2010-2015 Camaro Rear Hatch Nitrous Bottle Bracket Installation Guide Comprehensive installation instructions for the Nitrous Outlet 2010-2015 Camaro Rear Hatch 10lb & 15lb Nitrous Bottle Bracket (Part Number: 00-33002). Learn how to properly mount your nitrous bottle for your Chevrolet Camaro.
	2015-2020 Ford Mustang EcoBoost Nitrous Plate System Installation Instructions Comprehensive installation guide for the Nitrous Outlet 00-10192-XX Plate System designed for the 2015-2020 Ford Mustang EcoBoost. Includes tools, materials, step-by-step procedures, and safety warnings.

	[2015-2023 Dodge Hellcat 6.2L Hemi Blower Spacer Plate Conversion Installation Guide] Step-by-step installation instructions for the Nitrous Outlet 2015-2023 6.2L Hemi Hellcat Challenger/Charger/Red Eye/Demon and 2018-2019 Trackhawk Blower Spacer Plate Conversion. Includes tools needed, disassembly, plate installation, jet installation, line installation, and final assembly.
	[2007-14 Silverado/Sierra Switch Panel Installation Instructions] Detailed installation guide for the Nitrous Outlet 2007-14 Silverado/Sierra Switch Panel (Part Number 00-11047), designed for Chevrolet and GMC full-size pickups. Includes tools needed, step-by-step instructions, and wiring diagrams.
	[Nitrous Outlet 2010-2015 Camaro Rear Hatch Nitrous Bottle Bracket Installation Guide] Comprehensive installation instructions for the Nitrous Outlet 2010-2015 Camaro Rear Hatch 10lb & 15lb Nitrous Bottle Bracket (Part Number: 00-33002). Learn how to properly mount your nitrous bottle for your Chevrolet Camaro.
	[2015-2020 Ford Mustang EcoBoost Nitrous Plate System Installation Instructions] Comprehensive installation guide for the Nitrous Outlet 00-10192-XX Plate System designed for the 2015-2020 Ford Mustang EcoBoost. Includes tools, materials, step-by-step procedures, and safety warnings.

Documents - Nitrous Outlet – 00-61002

[pdf] Instructions Guide Accessories Diagram

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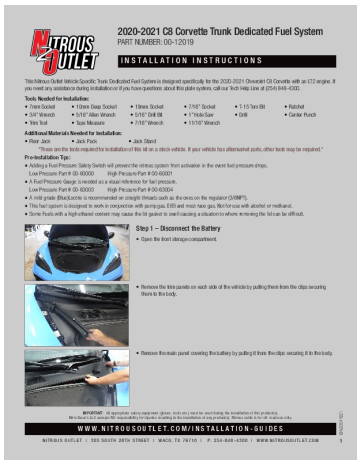

2020-2021 C8 Corvette Trunk Dedicated Fuel System
PART NUMBER: 00-12019

INSTALLATION INSTRUCTIONS

WWW.NITROUSOUTLET.COM/INSTALLATION-GUIDES

[pdf] Instructions

2020 2021 C8 Corvette Trunk Dedicated Fuel Tank Installation Instructions SKU 00 12019Nitrous Outlet Product Guides00 12019 c8 corvette trunk dedicated fuel tank installationcdn shopify s files 1 0559 7269 2108 installation |||

2020-2021 C8 Corvette Trunk Dedicated Fuel System PART NUMBER: 00-12019 INSTALLATION INSTRUCTIONS T ... feed line between to the fuel pressure regulator. **Shown with optional Fuel Pressure Sensor - P/N **00-61002**-FPS Route the fuel feed hose through the wheel well, to the engine firewall, up between th... lang:en score:25 filesize: 7.05 M page_count: 14 document date: 2021-04-19