Intellitronix DP1805

Intellitronix LED Digital Gauge Panel User Manual

Model: DP1805G

1. INTRODUCTION

This manual provides comprehensive instructions for the installation, operation, and maintenance of your Intellitronix LED Digital Gauge Panel, model DP1805G, designed for 1970-1976 Dodge Duster/Dart vehicles. This digital gauge panel offers a modern, high-tech display for essential vehicle information, enhancing both functionality and interior aesthetics.

Figure 1: Intellitronix LED Digital Gauge Panel (DP1805G) installed view.

The Intellitronix LED Digital Gauge Panel provides clear, vibrant green digital readouts for critical vehicle parameters, integrated seamlessly into the dashboard.

2. KEY FEATURES

- **Speedometer:** Displays speeds up to 255 MPH. Includes odometer, trip meter, one-button calibration (tire size, gear ratio, transmission independent), 0-60 time, 1/4 mile elapse time, and high-speed recall. Compatible with electronic cruise control senders or the included Intellitronix S9013 universal speedometer sending unit.
- **Tachometer:** Displays 0-9999 RPM. Supports 1-2-4-6-8-10-12 cylinder engines. Features high-speed recall.
- **Water Temperature Gauge:** Displays 18-275°F range. Includes sending unit S8023.
- **Oil Pressure Gauge:** Reads 0-100 PSI range. Oil pressure sender is included.
- **Voltmeter:** Displays 7.0 to 18.0 volt range. No sending unit required.
- **Fuel Level Gauge:** Reads 0-99% range in 1% increments. Works with existing Chrysler 73-10 ohms fuel level sending unit.
- Integrated turn signals and high beam indicator.

- Direct fit printed circuit boards and custom fit "smoked" plexiglass faceplate.

3. VEHICLE COMPATIBILITY

This Intellitronix LED Digital Gauge Panel is specifically designed for the following vehicles:

- 1970-1976 Dodge Duster
- 1969-1976 Dodge Dart
- 1968-1977 Plymouth Scamp
- 1968-1977 Plymouth Valiant
- 1973-1976 Dodge Dart Sport
- 1972 Plymouth Demon

Note: The original bezel is NOT included with this product and must be retained from your vehicle for installation.

4. PACKAGE CONTENTS

Upon opening your package, please verify that all the following components are present:

- Direct fit printed circuit boards
- Custom fit "smoked" plexiglass faceplate
- Universal temperature sending unit (S8023)
- Oil pressure sending unit
- Speedometer sending unit (Intellitronix S9013)
- Necessary senders and sensors for vehicles without electronic transmission or cruise control
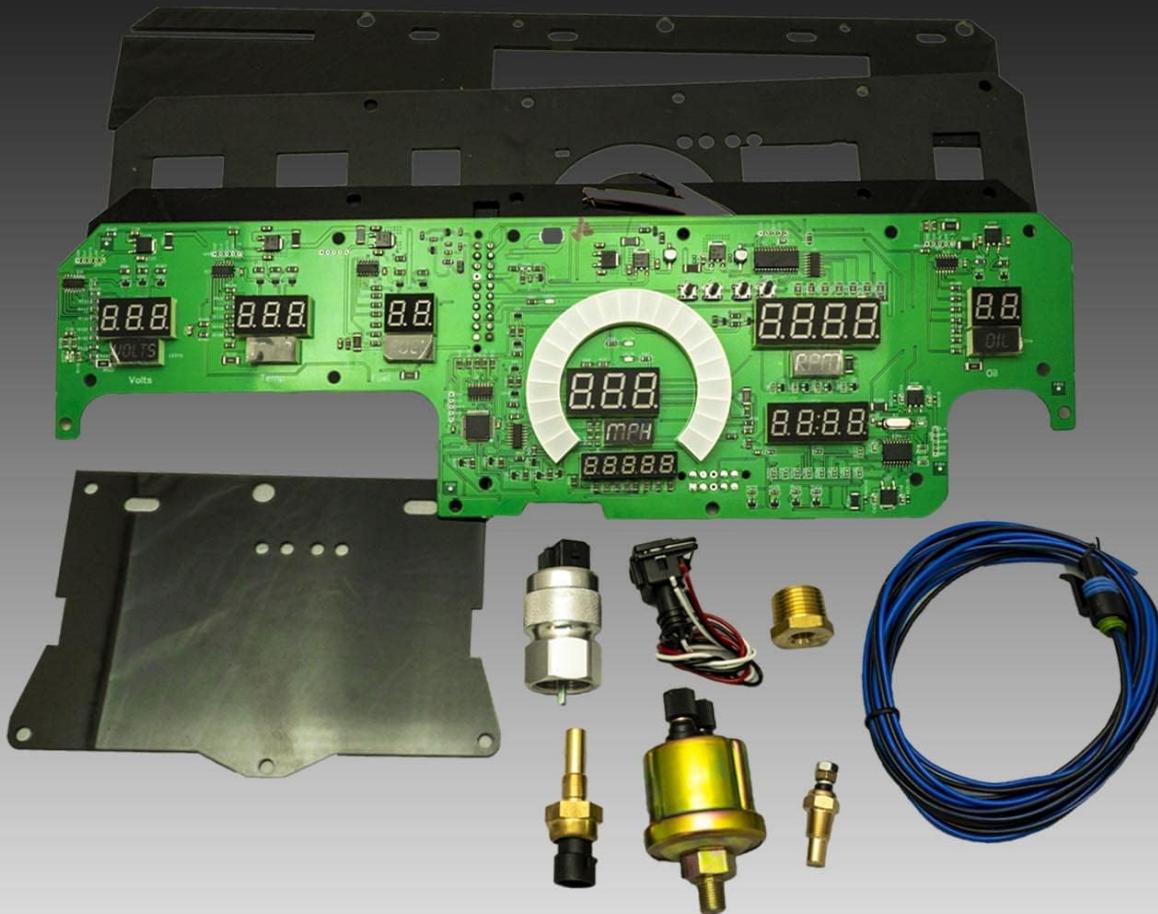- Installation instructions

Figure 2: Included components of the gauge panel kit.

The kit includes the main circuit board, a smoked plexiglass cover, and all necessary sensors and wiring for a complete installation.

5. SETUP AND INSTALLATION

Installation of the Intellitronix LED Digital Gauge Panel requires automotive electrical and mechanical knowledge. It is highly recommended that installation be performed by a qualified professional to ensure proper function and avoid damage to the product or vehicle.

5.1. Pre-Installation Checks

- Disconnect the vehicle's battery before beginning any electrical work.
- Ensure all components listed in Section 4 are present and undamaged.
- Familiarize yourself with your vehicle's wiring diagrams, especially for the existing gauge cluster.
- Confirm the correct bushing size for the water temperature sender (1/2 inch is standard, 3/8 inch available upon request at purchase).

5.2. General Installation Steps (Overview)

1. Carefully remove the existing gauge cluster from your vehicle's dashboard.
2. Transfer the original bezel to the new Intellitronix digital gauge panel.
3. Connect the new sending units (temperature, oil pressure, speedometer) to their respective locations on the engine/transmission.
4. Wire the gauge panel according to the detailed instructions provided in the product packaging. This typically involves connecting power, ground, illumination, and signal wires from the sending units.
5. Mount the new digital gauge panel into the dashboard opening.
6. Reconnect the vehicle's battery.
7. Perform initial calibration and testing as described in the operating instructions.

Refer to the specific installation instructions included with your product for detailed wiring diagrams and step-by-step procedures.

6. OPERATING INSTRUCTIONS

Once installed, your Intellitronix LED Digital Gauge Panel is designed for intuitive operation. Most functions are automatic, with specific calibration and recall features accessible via a single button.

6.1. Speedometer Functions

- **Speed Display:** Shows current vehicle speed in MPH.
- **Odometer:** Tracks total distance traveled.
- **Trip Meter:** Tracks distance for a single trip. Reset by pressing and holding the calibration button.
- **One-Button Calibration:** Allows for easy calibration regardless of tire size, gear ratio, or transmission type. Follow the specific calibration steps in the included manual.
- **0-60 Time:** Measures acceleration time from 0 to 60 MPH.
- **1/4 Mile Elapse Time:** Measures time to complete a quarter-mile.
- **High Speed Recall:** Recalls the maximum speed achieved.

6.2. Tachometer Functions

- **RPM Display:** Shows current engine revolutions per minute.
- **Cylinder Selection:** Automatically or manually configurable for 1, 2, 4, 6, 8, 10, or 12 cylinder engines.
- **High Speed Recall:** Recalls the maximum RPM achieved.

6.3. Other Gauge Displays

- **Water Temperature:** Displays engine coolant temperature.
- **Oil Pressure:** Displays engine oil pressure.
- **Voltmeter:** Displays vehicle system voltage.
- **Fuel Level:** Displays fuel tank level as a percentage.

7. MAINTENANCE

The Intellitronix LED Digital Gauge Panel is designed for long-lasting performance with minimal maintenance.

- **Cleaning:** To clean the plexiglass faceplate, use a soft, lint-free cloth and a mild, non-abrasive cleaner specifically designed for plastics or automotive interiors. Avoid harsh chemicals or abrasive materials that could scratch the surface.

- **Electrical Connections:** Periodically check all electrical connections to ensure they are secure and free from corrosion.
- **Sensor Integrity:** Ensure all sending units (temperature, oil pressure, speedometer) are securely mounted and their wiring is intact.

8. TROUBLESHOOTING

If you encounter issues with your digital gauge panel, refer to the following common troubleshooting steps. For more complex problems, consult a professional automotive technician or contact Intellitronix customer support.

Problem	Possible Cause	Solution
Gauge not illuminating or no display.	No power, blown fuse, loose ground connection.	Check vehicle fuses. Verify power and ground connections to the gauge panel. Ensure battery is charged.
Inaccurate speedometer reading.	Incorrect calibration, faulty speedometer sender.	Perform speedometer calibration as per the included instructions. Check the speedometer sender and its wiring.
Inaccurate temperature/oil pressure/fuel reading.	Faulty sending unit, incorrect wiring to sender.	Verify the correct sending unit is installed and properly wired. Check for shorts or open circuits in the sender wiring.
Tachometer not reading or reading incorrectly.	Incorrect cylinder setting, faulty signal wire connection.	Ensure the tachometer is set to the correct number of cylinders. Check the tachometer signal wire connection to the ignition system.

9. SPECIFICATIONS

Parameter	Value
Brand	Intellitronix
Model Number	DP1805
Display Color	Green LED
Speedometer Range	0-255 MPH
Tachometer Range	0-9999 RPM
Water Temperature Range	18-275°F
Oil Pressure Range	0-100 PSI
Voltmeter Range	7.0-18.0 Volts
Fuel Level Range	0-99% (Chrysler 73-10 ohms sender compatible)
Material	Copper, Fiberglass, Acrylic
Product Dimensions (L x W x H)	10 x 8 x 4 inches
Item Weight	3 pounds

10. Warranty and Support

For information regarding product warranty, technical support, or replacement parts, please contact Intellitronix directly.

You can visit their official website or use the contact information provided in the original product packaging.

Visit the Intellitronix Store on Amazon for more product information and support resources.