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Intellitronix DP2002-S9020

# Intellitronix 1978-1982 Corvette LED Digital Gauge Cluster User Manual

Model: DP2002-S9020  
Brand: Intellitronix

## 1. PRODUCT OVERVIEW

This manual provides detailed instructions for the installation, operation, and maintenance of your Intellitronix 1978-1982 Corvette LED Digital Gauge Cluster. This direct replacement system is designed to seamlessly integrate into your factory bezel, offering modern digital readouts for essential vehicle metrics.

The cluster features a high-visibility blue LED display, a built-in GPS speedometer for accurate speed readings without transmission sensors, and includes premium oil pressure and coolant temperature senders for precise monitoring.



Image 1.1: The Intellitronix 1978-1982 Corvette LED Digital Gauge Cluster with its blue digital display, designed for direct replacement in the factory bezel.

## 2. PACKAGE CONTENTS

Please verify that all components listed below are present in your package. The factory bezel is NOT included and must be reused from your original vehicle.

- 1978-1982 Corvette LED Digital Gauge Cluster Unit
- GPS Speedometer Module
- Oil Pressure Sender
- Coolant Temperature Sender
- Wiring Harness (pre-attached or included for plug-and-play connection)
- Mounting Hardware (as required)

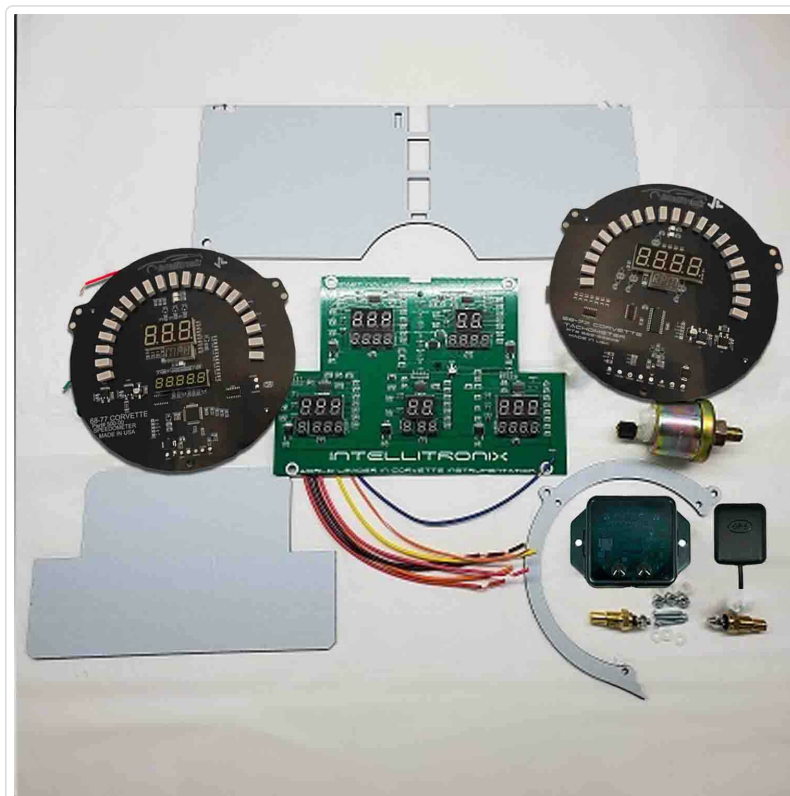


Image 2.1: All major components of the gauge cluster kit, including the main circuit boards, senders, GPS module, and mounting hardware.



Image 2.2: A detailed view of the GPS module and the primary control box, essential for accurate speed readings and system operation.

### 3. KEY FEATURES

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- **Direct Fit for 1978-1982 C3 Corvette:** Engineered for seamless installation with factory bezel and wiring, requiring no cutting or splicing.
- **High-Visibility Blue LED Display:** Provides crisp, bright digital readouts for speed, RPM, oil pressure, temperature, voltage, and fuel.
- **Built-In GPS Speedometer Module:** Ensures instantly accurate readings without the need for calibration or tapping into the transmission speed sensor.
- **Complete Kit with Senders:** Includes high-quality oil pressure and coolant temperature senders for precise real-time readings.
- **Modern Upgrade for Classic Dash:** Enhances functionality and reliability while maintaining the vintage aesthetic of your Corvette.

### 4. INSTALLATION GUIDE

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#### 4.1 Safety Precautions

- Always disconnect the vehicle's battery before beginning any electrical work.
- Ensure the vehicle is parked on a level surface with the parking brake engaged.
- If you are not comfortable with automotive electrical systems, it is recommended to seek professional installation.
- Wear appropriate personal protective equipment (PPE) such as safety glasses.

#### 4.2 Tools Required

- Basic hand tools (screwdrivers, wrenches, socket set)
- Wire strippers/crimpers (if any wiring modifications are needed, though typically not for this direct-fit unit)
- Multimeter (for testing connections)

## 4.3 Step-by-Step Installation

1. **Disconnect Battery:** Locate your vehicle's battery and disconnect the negative terminal to prevent electrical shorts during installation.
2. **Remove Old Gauge Cluster:** Carefully remove the existing gauge cluster from your Corvette's dashboard. Refer to your vehicle's service manual for specific instructions on bezel and cluster removal.
3. **Install New Cluster into Bezel:** Mount the Intellitronix LED Digital Gauge Cluster into your factory bezel. This unit is designed for a direct fit. Ensure it is securely fastened.
4. **Connect Wiring Harness:** Connect the provided wiring harness from the new gauge cluster to the vehicle's existing wiring. This unit is designed for plug-and-play compatibility with the factory wiring.
5. **Install Oil Pressure Sender:** Locate the original oil pressure sender on your engine. Remove it and install the new Intellitronix oil pressure sender. Ensure a tight, leak-free connection.
6. **Install Coolant Temperature Sender:** Locate the original coolant temperature sender on your engine. Remove it and install the new Intellitronix coolant temperature sender. Ensure a tight, leak-free connection.
7. **Mount GPS Module:** Find a suitable location for the GPS module. It should have a clear view of the sky (e.g., under the dashboard near the windshield, or on the dash itself) and be away from large metal objects that could interfere with the signal. Secure the module using adhesive or fasteners. Route the cable to the gauge cluster and connect it.
8. **Reconnect Battery:** Once all connections are secure and the cluster is mounted, reconnect the negative terminal of your vehicle's battery.
9. **Test Functionality:** Turn the ignition to the 'ON' position (do not start the engine yet). Verify that the digital display illuminates and shows initial readings. Start the engine and check all gauge functions (speed, RPM, oil pressure, water temperature, voltage, fuel). Drive the vehicle briefly to confirm GPS speedometer operation.



Image 4.1: The digital gauge cluster installed within a factory bezel, showcasing the integrated appearance and blue display.

## 5. OPERATING YOUR DIGITAL GAUGE CLUSTER

### 5.1 Display Readouts

The Intellitronix Digital Gauge Cluster provides clear, real-time digital readouts for the following metrics:

- **Speed:** Displayed in Miles Per Hour (MPH) via the GPS module.
- **RPM:** Engine Revolutions Per Minute.
- **Oil Pressure:** Measured in PSI.
- **Water Temperature:** Measured in degrees Fahrenheit (°F).
- **Voltage:** Vehicle electrical system voltage.
- **Fuel Level:** Percentage of fuel remaining.

### 5.2 GPS Speedometer Functionality

The integrated GPS speedometer module acquires satellite signals to provide highly accurate speed readings. Upon vehicle startup, the GPS module will typically acquire a signal within a few seconds. Ensure the GPS antenna has an unobstructed view of the sky for optimal performance.

No calibration is typically required for the GPS speedometer, as it derives speed directly from satellite data.

## 6. CARE AND MAINTENANCE

- **Cleaning:** To clean the display and surrounding surfaces, use a soft, lint-free cloth. If necessary, dampen the cloth with water or a mild, non-abrasive glass cleaner. Avoid using harsh chemicals, solvents, or abrasive materials, as these can damage the display or finish.
- **Environmental Conditions:** While designed for automotive use, avoid exposing the unit to extreme temperatures or direct prolonged sunlight when parked, as this can affect display longevity.
- **Electrical System:** Ensure your vehicle's electrical system is in good working order to prevent voltage spikes or drops that could affect the gauge cluster.

## 7. TROUBLESHOOTING

This section addresses common issues you might encounter with your digital gauge cluster.

| Problem                                                   | Possible Cause                                                             | Solution                                                                                                                                                                                                    |
|-----------------------------------------------------------|----------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Display does not illuminate.                              | No power to the unit; loose connection; blown fuse.                        | Check battery connection. Verify all wiring harness connections are secure. Inspect vehicle's fuse box for a blown fuse related to the instrument cluster.                                                  |
| Incorrect or erratic readings (e.g., oil pressure, temp). | Sender not properly installed; faulty sender; wiring issue to sender.      | Ensure senders are correctly installed and making good contact. Check wiring from senders to the cluster for damage or loose connections. Test senders if possible.                                         |
| GPS speedometer not working or inaccurate.                | GPS module not receiving signal; module improperly mounted; faulty module. | Ensure GPS module has a clear view of the sky. Relocate the module if necessary to an area with less obstruction. Check the connection of the GPS module to the cluster. Allow time for signal acquisition. |
| Display flickering or dim.                                | Unstable power supply; loose connection; internal issue.                   | Check vehicle's battery and charging system. Verify all power connections to the cluster. If the issue persists, contact customer support.                                                                  |

## 8. TECHNICAL SPECIFICATIONS

| Specification                  | Detail                            |
|--------------------------------|-----------------------------------|
| Product Model Number           | DP2002-S9020                      |
| Product Dimensions (L x W x H) | 15 x 10 x 4 inches                |
| Item Weight                    | 4 Pounds                          |
| Display Type                   | LED Digital                       |
| Display Color                  | Blue                              |
| Speedometer Type               | GPS                               |
| Included Senders               | Oil Pressure, Coolant Temperature |
| Materials                      | Acrylic, Copper, Fiberglass       |

## 9. WARRANTY INFORMATION

For specific warranty terms and conditions, please refer to the documentation provided with your purchase or visit the official Intellitronix website. Warranty coverage typically addresses manufacturing defects and material flaws under normal use.

Extended protection plans may be available for purchase separately and are not part of the standard manufacturer's warranty.

## 10. CUSTOMER SUPPORT

If you require further assistance, have questions not covered in this manual, or need technical support, please contact Intellitronix customer service.

Visit the official Intellitronix website for contact information, FAQs, and additional product resources [Intellitronix Official Store](#)

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Example: How do I reset this device or fix this error?

#### Details

Model number, symptoms, what you tried, or the section of the manual you are using.

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