Dakota Digital RTX-64C-CVL-X

Dakota Digital RTX-64C-CVL-X Retrotech Gauge Instrument System

Instruction Manual for 1964-65 Chevy Chevelle/El Camino

1. Introduction

This manual provides detailed instructions for the installation, operation, and maintenance of your Dakota Digital RTX-64C-CVL-X Retrotech Gauge Instrument System. This system is specifically designed for compatibility with 1964-65 Chevy Chevelle and El Camino models, offering a blend of classic aesthetics and modern functionality.

The RTX series aims to preserve the original equipment manufacturer (OEM) look while integrating advanced features. It includes a comprehensive set of analog gauges and high-definition Thin-Film Transistor (TFT) message centers, all housed within a CNC machined enclosure. The system features user-selectable LED backlighting with over 30 color options, allowing for personalization of the display.



Image 1: The Dakota Digital RTX-64C-CVL-X Retrotech Gauge Instrument System, showcasing its integrated design.

2. Setup and Installation

The RTX-64C-CVL-X system is designed for a bolt-in installation using a central control box to simplify wiring and setup. It is compatible with OEM or reproduction style bezels; the bezel itself is not included with this instrument system.

2.1 Included Sensors

- **Oil Pressure Sensor:** 1/8" NPT.
- **Water Temperature Sensor:** 1/8" NPT, with bushings for 1/4", 3/8", 1/2" NPT, as well as 12mm and 16mm for GM & LS applications.
- **Speedometer Pulse Generator:** For accurate speed readings.

2.2 General Installation Steps

1. Carefully remove the existing instrument cluster from your vehicle.
2. Install the Dakota Digital RTX system into your OEM or reproduction bezel.
3. Connect the included sensors to their respective locations in the engine.
4. Route the wiring harness from the instrument system to the central control box.
5. Connect the central control box to the vehicle's power, ground, and signal sources as per the detailed wiring diagram provided in the full installation guide (not included in this manual).
6. Securely mount the central control box in a suitable location.
7. Reinstall the instrument cluster into the dashboard.
8. Perform initial power-up and configuration as described in the operating section.

Note: Always refer to the comprehensive installation manual provided with your product for detailed wiring diagrams and specific vehicle instructions.

3. Operating Instructions

The RTX system provides a wide array of information through its analog gauges and digital message centers. The system is highly customizable, particularly regarding display colors.

3.1 Analog Gauges

- **Speedometer:** Displays vehicle speed from 0-120 MPH.
- **Tachometer:** Displays engine RPM from 0-8000 RPM.
- **Oil Pressure:** Displays engine oil pressure from 0-80 PSI.
- **Voltmeter:** Displays vehicle electrical system voltage.
- **Water Temperature:** Displays engine coolant temperature.
- **Fuel Level:** Displays vehicle fuel tank level.

3.2 Digital Message Centers

The two high-definition TFT message centers can be configured to display various data points:

- Odometer
- Dual Trip Meter
- Clock (12 hour format)
- Estimated Range / Miles to Empty
- 0-60 MPH Timer
- 1/4 and 1/8 Mile Time and End Speed
- High Speed Recall
- High RPM Recall

3.3 Indicators

The system integrates various indicators utilizing stock turn signal locations:

- Turn Signals
- High Beam
- Check Engine
- Parking Brake
- Cruise Control (On/On & Engaged, if vehicle equipped)
- Gear Position (requires GSS-3000, sold separately)
- 4x4 (if vehicle equipped)
- Wait to Start (if vehicle equipped)

3.4 User-Selectable Color Options

The RTX system allows you to independently customize the color of the needles, gauge sweeps, and digital TFT displays. There are over 30 user-selectable color options available. Refer to the full operating manual for instructions on how to access and change these color settings via the central control box or integrated buttons.



Image 2: Gauge system installed in a vehicle bezel, displaying white and red backlighting.



Image 3: Gauge system installed in a vehicle bezel, displaying green backlighting.



Image 4: Gauge system installed in a vehicle bezel, displaying red backlighting.



Image 5: Gauge system installed in a vehicle bezel, displaying blue backlighting.

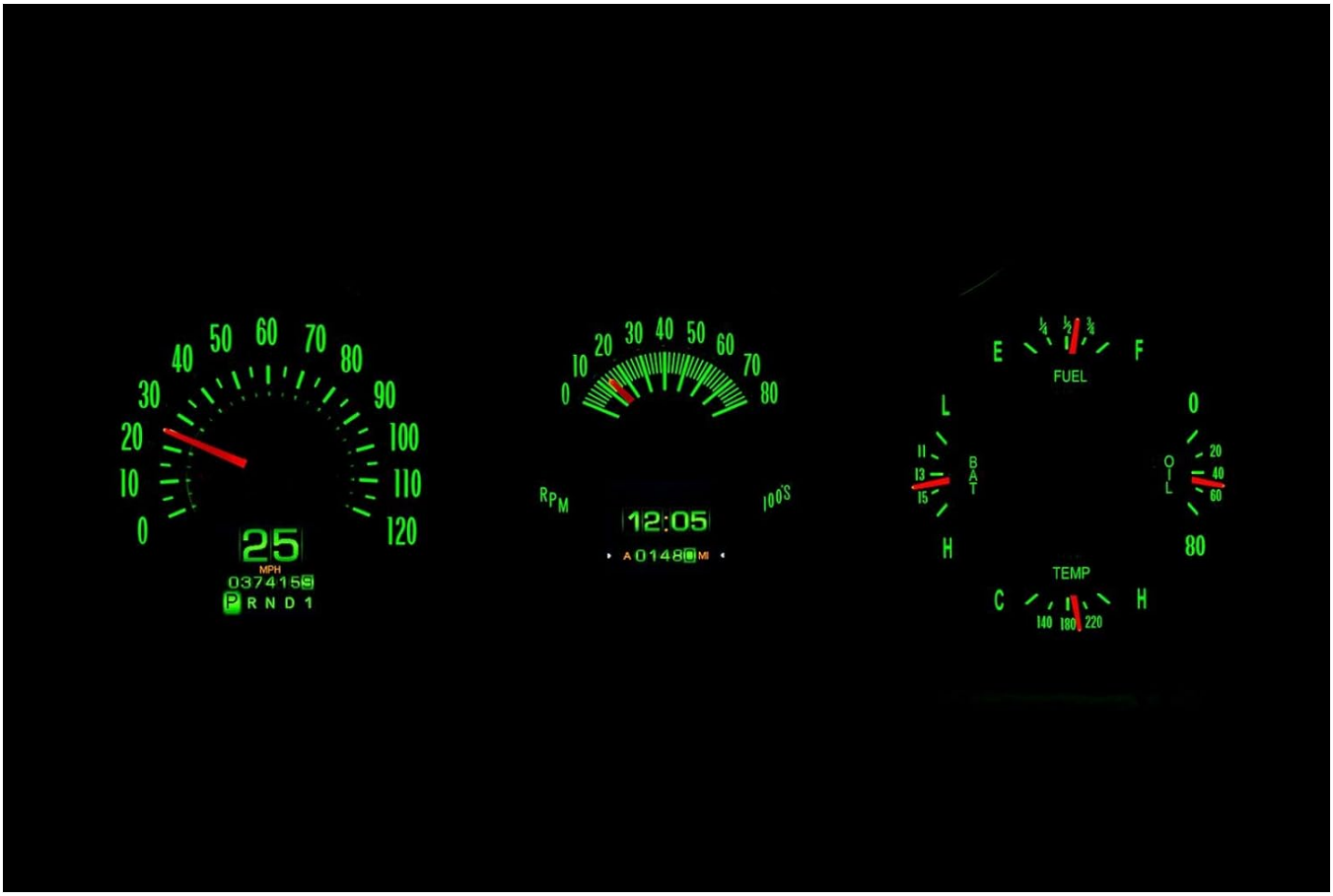


Image 6: Close-up view of the gauge system with green backlighting in a low-light environment, highlighting the digital message centers.

4. Maintenance

The Dakota Digital RTX-64C-CVL-X system is designed for durability and minimal maintenance. To ensure longevity and optimal performance:

- **Cleaning:** Use a soft, dry cloth to clean the display and bezel. Avoid abrasive cleaners or solvents, as these can damage the display surface or finishes.
- **Connections:** Periodically check all electrical connections to ensure they are secure and free from corrosion.
- **Environmental Factors:** While designed for automotive environments, extreme temperatures or moisture should be avoided where possible.

No user-serviceable parts are typically found within the main instrument cluster or control box. Any internal issues should be addressed by qualified service personnel.

5. Troubleshooting

If you encounter issues with your RTX-64C-CVL-X system, consider the following basic troubleshooting steps:

- **No Power/Display:** Check all power and ground connections to the central control box and the instrument cluster. Verify vehicle battery voltage.
- **Inaccurate Readings:** Ensure all sensors (oil pressure, water temp, speedometer) are correctly installed and securely connected. Check for any loose or damaged wiring.
- **Intermittent Operation:** Inspect all wiring for shorts, pinches, or loose connections. Ensure the central control box is securely mounted and not subject to excessive vibration.
- **Display Issues:** If the digital displays are not functioning correctly, try cycling the vehicle's ignition. If the problem persists, consult the full manual for advanced diagnostic procedures.

For persistent issues or problems not covered here, it is recommended to contact Dakota Digital customer support or consult a professional automotive technician.

6. Specifications

Model Number	RTX-64C-CVL-X
Brand	Dakota Digital
Compatibility	1964-65 Chevy Chevelle / El Camino
Material	Aluminum
Item Weight	9 pounds
Package Dimensions	24 x 14 x 7 inches
UPC	670219150034

7. Warranty Information

Specific warranty terms and conditions for the Dakota Digital RTX-64C-CVL-X Retrotech Gauge Instrument System are provided by the manufacturer. Please refer to the warranty documentation included with your product packaging or visit the official Dakota Digital website for the most current warranty policy details.

8. Customer Support

For technical assistance, troubleshooting, or inquiries regarding your Dakota Digital RTX-64C-CVL-X system, please contact Dakota Digital customer support directly. Contact information can typically be found on the manufacturer's website or in the product packaging.
Manufacturer: Dakota Digital
For the most up-to-date support resources, please visit the official Dakota Digital website.

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