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› [CURT Discovery NEXT Electric Trailer Brake Controller User Manual](#)

CURT 51126

CURT Discovery NEXT Electric Trailer Brake Controller

Model: 51126

PRODUCT OVERVIEW

The CURT Discovery NEXT is a powerful, compact, and user-friendly electric trailer brake controller designed for reliable operation of your trailer's electric brakes from within your vehicle's cabin. It features a sleek, low-profile design and offers fully adjustable settings to adapt to various vehicle-trailer configurations. This controller is an upgraded version of the highly regarded Discovery brake controller, compatible with a wide range of brake systems including low-volt, PWM, ABS, cruise control, and electric over hydraulic brakes. Its easy-to-read display provides comprehensive full-text diagnostics and adjustable brightness for optimal visibility.

KEY FEATURES

- **Compact & Efficient Design:** Provides dependable operation of electric trailer brakes.
- **Broad Compatibility:** Controls up to 8 brakes (4 axles) and works with 12V vehicle systems, including electric over hydraulic brakes.
- **Customizable Tow Settings:** Time-delay controller with adjustable power and ramp time, along with gain and load settings for precise calibration.
- **Slim, Low-Profile:** Modern aesthetic that integrates seamlessly into your vehicle's interior, saving space.
- **Easy Setup & Use:** No internal moving parts, can be mounted at any angle. Features full-text diagnostics for simplified troubleshooting.

SETUP AND INSTALLATION

The CURT Discovery NEXT brake controller is designed for straightforward installation. It is a plug-and-play unit when used with a vehicle-specific quick plug harness (sold separately). The absence of internal moving parts allows for flexible mounting at any angle within your vehicle. A unique mounting bracket is included to enhance clearance and ensure an unobtrusive installation.

SLEEK DESIGN

Unique bracket system for improved dash clearance



Image: The sleek design of the Discovery NEXT allows for improved dash clearance during installation.

QUICK PLUG EQUIPPED

Plug-and-play install with
vehicle-specific quick plug harness
(sold separately)

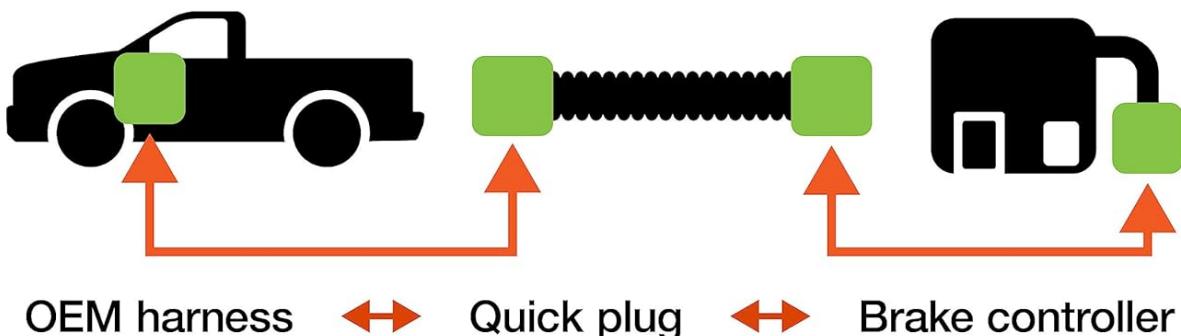


Image: Quick plug equipped for plug-and-play installation with a vehicle-specific harness (sold separately).

OPERATING INSTRUCTIONS

The Discovery NEXT is a time-delay brake controller, meaning it applies trailer brakes based on a pre-set time delay after the vehicle's brakes are engaged. It offers fully adjustable power and ramp time settings, allowing you to fine-tune the braking response to match your specific towing requirements. You can also adjust gain and load settings for optimal performance with different trailers and loads.

- **Power Adjustment:** Controls the maximum braking power delivered to the trailer.
- **Ramp Time Adjustment:** Determines how quickly the braking power reaches its maximum level.
- **Gain Setting:** Adjusts the sensitivity of the brake application.
- **Load Setting:** Calibrates the controller for the weight of the trailer.

The unit features a large, easy-to-read LCD display that provides real-time information about your brake settings. The adjustable brightness and day-night mode ensure optimal visibility in all lighting conditions. The controller is capable of managing the braking system for 2 to 8 trailers, accommodating 1 to 4 axles.

LARGE LCD DISPLAY

Clean, easy-to-read interface
with full-text readout

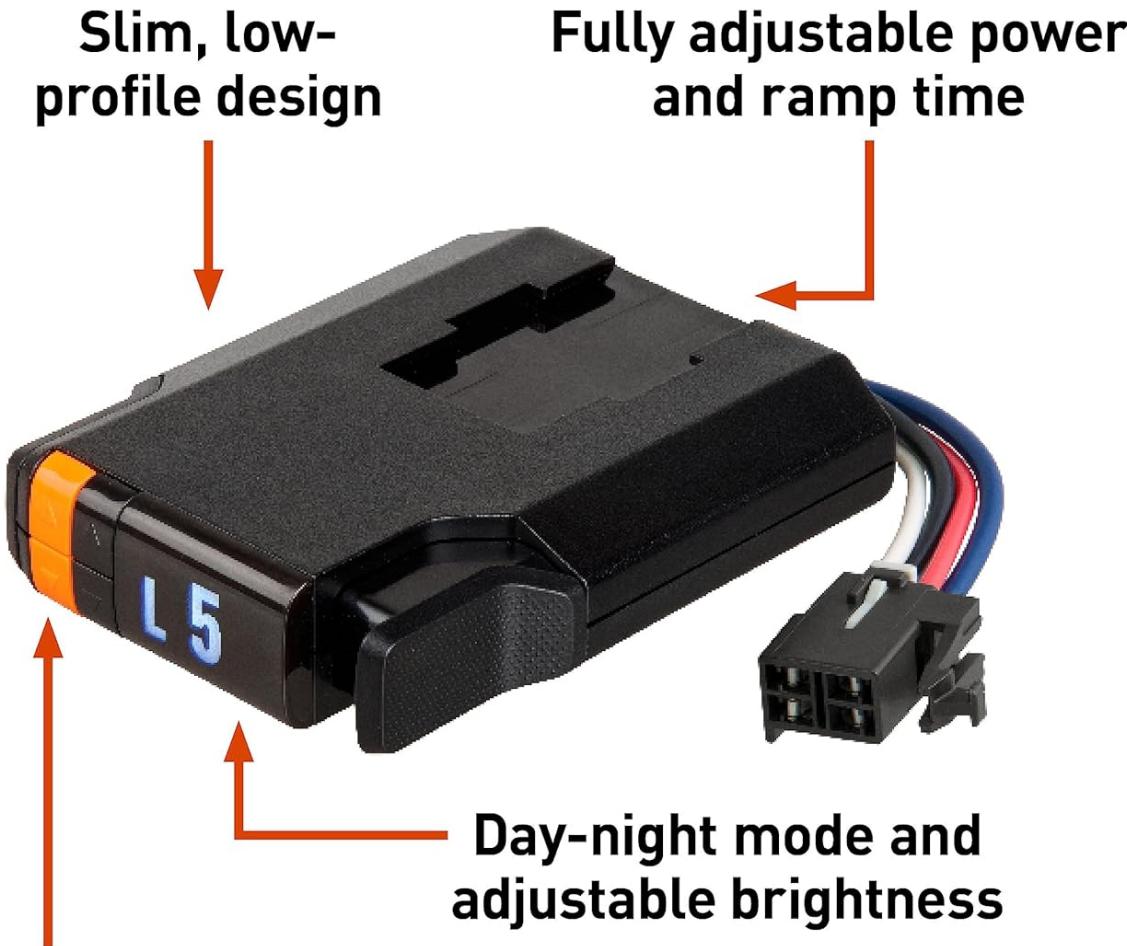


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Image: The large LCD display provides a clean, easy-to-read interface with full-text readout for current settings.

FEATURES & BENEFITS



 **CURT**

Image: Features and benefits of the Discovery NEXT, highlighting its slim profile, fully adjustable power and ramp time, day-night mode, adjustable brightness, and multiple settings.

MAINTENANCE

The CURT Discovery NEXT brake controller is designed with no internal moving parts, which minimizes the need for regular maintenance. Keep the unit clean and ensure all connections are secure and free from corrosion. Periodically inspect the wiring harness for any signs of wear or damage.

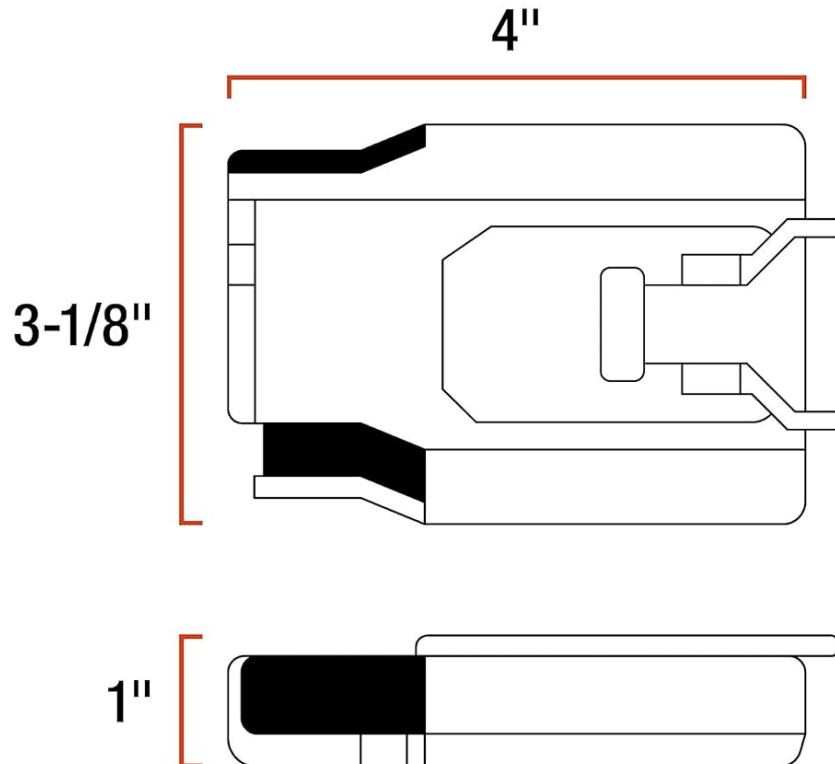
TROUBLESHOOTING

The Discovery NEXT features comprehensive full-text diagnostics displayed on its LCD screen, which simplifies troubleshooting. If an issue arises, refer to the diagnostic messages on the display for guidance. For persistent problems, consult the full troubleshooting guide available from CURT or contact their customer support.

SPECIFICATIONS

Feature	Detail
Model Name	Discovery NEXT
Item Model Number	51126
Manufacturer	CURT
Item Weight	9.6 ounces
Product Dimensions	8.13 x 5.38 x 2.75 inches
Country of Origin	Mexico
Brake/Axle Compatibility	2-8 Brakes / 1-4 Axles
Activation System	Time-Delay
Display	Large LCD with Full-Text Diagnostics
Mounting Angle	Any
Brightness Control	Adjustable, Day/Night Mode

APPROXIMATE DIMENSIONS



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Image: Approximate dimensions of the CURT Discovery NEXT brake controller.

NEXT SERIES COMPARISON

	Venturer Next	Discovery Next	TriFlex Next
Activation System	Time	Time	Proportional
Brakes / Axles	2 - 6 Trailer Brakes (1 - 3 Axles)	2 - 8 Trailer Brakes (1 - 4 Axles)	2 - 8 Trailer Brakes (1 - 4 Axles)
Auto Sleep Mode	✓	✓	✓
Mounting Angle	Any	Any	Any
Brightness Control	✓	✓	✓
Day / Night Mode		✓	✓
Output Increments	1.0	0.5	0.5
Full Text Diagnostics		✓	✓



Image: Comparison of CURT NEXT series brake controllers, highlighting the Discovery NEXT's features such as time activation, 2-8 brakes/1-4 axles compatibility, auto sleep mode, any mounting angle, brightness control, day/night mode, 0.5 output increments, and full text diagnostics.

WARRANTY INFORMATION

Specific warranty details for the CURT Discovery NEXT Electric Trailer Brake Controller are typically provided with the product packaging or can be found on the official CURT website. Please refer to the documentation included with your purchase or visit curtmfg.com for the most up-to-date warranty policy.

CUSTOMER SUPPORT

For technical assistance, installation questions, or troubleshooting support, please contact CURT customer service. Contact information can usually be found on the product packaging, the official CURT website, or through your product retailer.

Related Documents - 51126

	<p>CURT TRIFLEX Brake Control: Installation and User Guide</p> <p>Discover how to install, set up, and operate your CURT TRIFLEX™ trailer brake controller with this comprehensive user guide. Learn about its features, wiring, troubleshooting, and ensure safe towing for your vehicle and trailer.</p>
	<p>CURT Venturer Brake Control Installation and User Guide</p> <p>Installation and user guide for the CURT Venturer Brake Control. Covers setup, wiring, operation, troubleshooting, and bench testing for 12-volt negative ground systems and trailers with two to six brakes.</p>
	<p>CURT Brake Control Tester Operating Instructions</p> <p>Step-by-step guide for operating and testing the CURT Brake Control Tester, including instructions for manual activation, brake pedal activation, and short circuit protection.</p>
	<p>CURT 51446 & 51447 Brake Control Harness Installation Guide</p> <p>Comprehensive installation guide for CURT brake control harnesses (models 51446 and 51447). This document provides step-by-step instructions, application details for Dodge Durango and Jeep Grand Cherokee (with factory tow package), and location guidance for proper installation of trailer brake control systems.</p>
	<p>CURT Spectrum Brake Control Installation Manual</p> <p>This manual provides detailed instructions for installing the CURT Spectrum Brake Control (Model 51170). It covers component identification, wiring, mounting options, setup procedures, testing, and troubleshooting for safe and effective trailer braking.</p>
	<p>CURT 13193 Trailer Hitch Installation Guide for Ford Transit</p> <p>Step-by-step installation instructions for the CURT 13193 trailer hitch designed for the Ford Transit van. Includes parts list, tools required, safety information, and towing capacity details.</p>