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› **Speedway Motors** /

› Universal 22-Circuit Automotive Wiring Harness Kit for GM Tilt Columns - GXL Insulated Copper Wires, Includes Instructions, Ideal for Restorations, Custom Builds and Engine Swaps

## Speedway Motors 91064022

# Universal 22-Circuit Automotive Wiring Harness Kit

Brand: Speedway Motors | Model: 91064022

## 1. INTRODUCTION

This manual provides comprehensive instructions for the installation, operation, and maintenance of your Speedway Motors Universal 22-Circuit Automotive Wiring Harness Kit. This kit is designed to simplify the electrical wiring process for a wide range of 12-volt automotive applications, including restorations, custom builds, and engine swaps. Its universal design and detailed labeling ensure a straightforward installation experience.

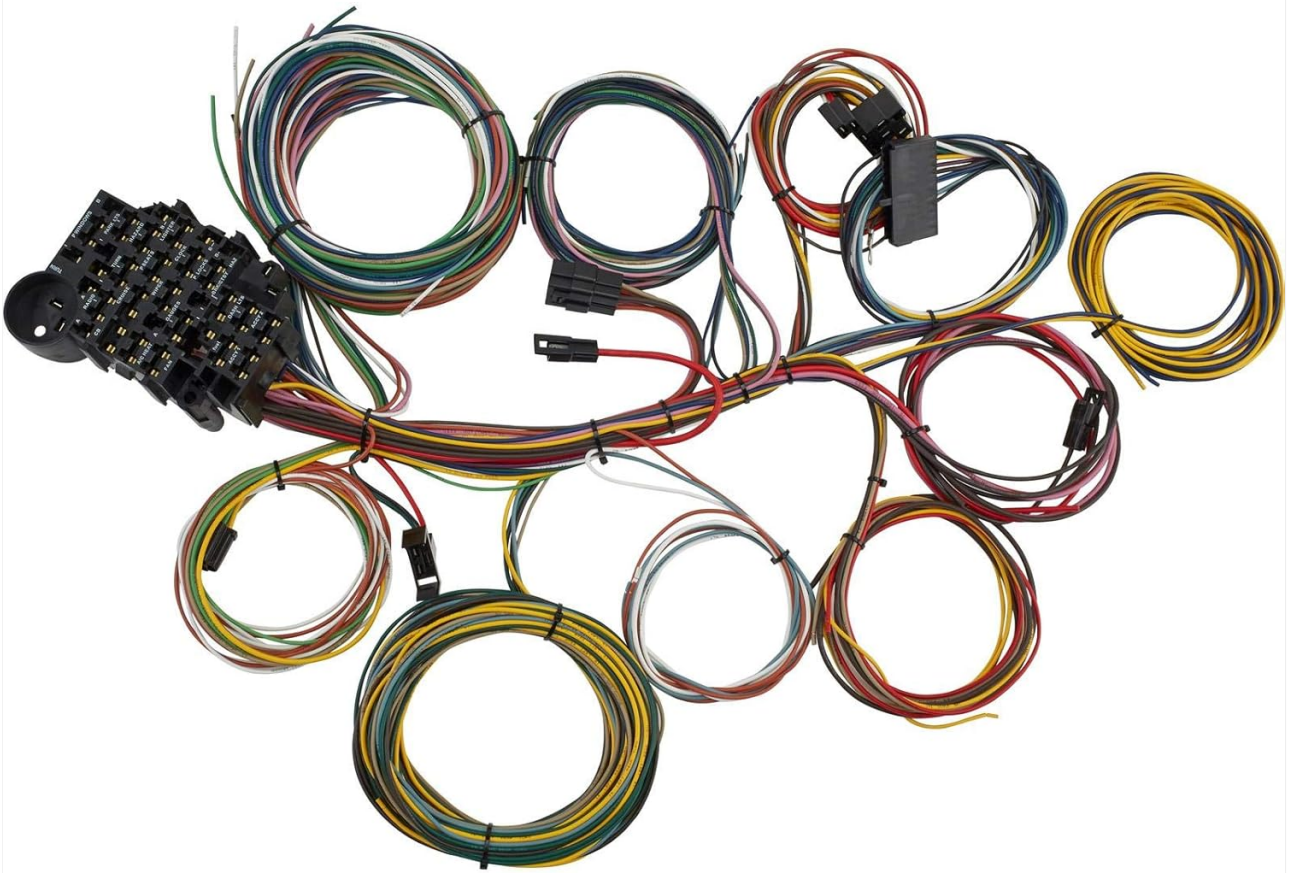


Figure 1: Overview of the 22-Circuit Universal Automotive Wiring Harness Kit, showing the main harness, fuse block, and various wire bundles.

## 2. KEY FEATURES

- **Effortless Installation:** The kit features automotive-grade GXL wires that are color-coded and labeled every 6 inches for easy identification and simplified installation.
- **Plug-and-Play Compatibility:** Includes a pre-wired GM column wiring plug (ribbon plug) for seamless integration with 1968-96 GM tilt steering columns.
- **Professional Quality and Appearance:** Equipped with an OEM style fuse block that includes an integrated flasher unit mount, ensuring dependable performance and a clean, professional look for your vehicle's electrical system.
- **Superior Flexibility and Versatility:** Designed to work with nearly any 12-volt vehicle, engine, and transmission combination. This versatile kit is suitable for engine swaps, restoration projects, and custom builds. It includes generous 17-foot-long tail light leads for full-size cars, trucks, or vans.

## Color Coded and Labeled

Automotive-grade GXL wires are color coded and labeled every 6 inches to ensure a trouble free universal wiring harness installation

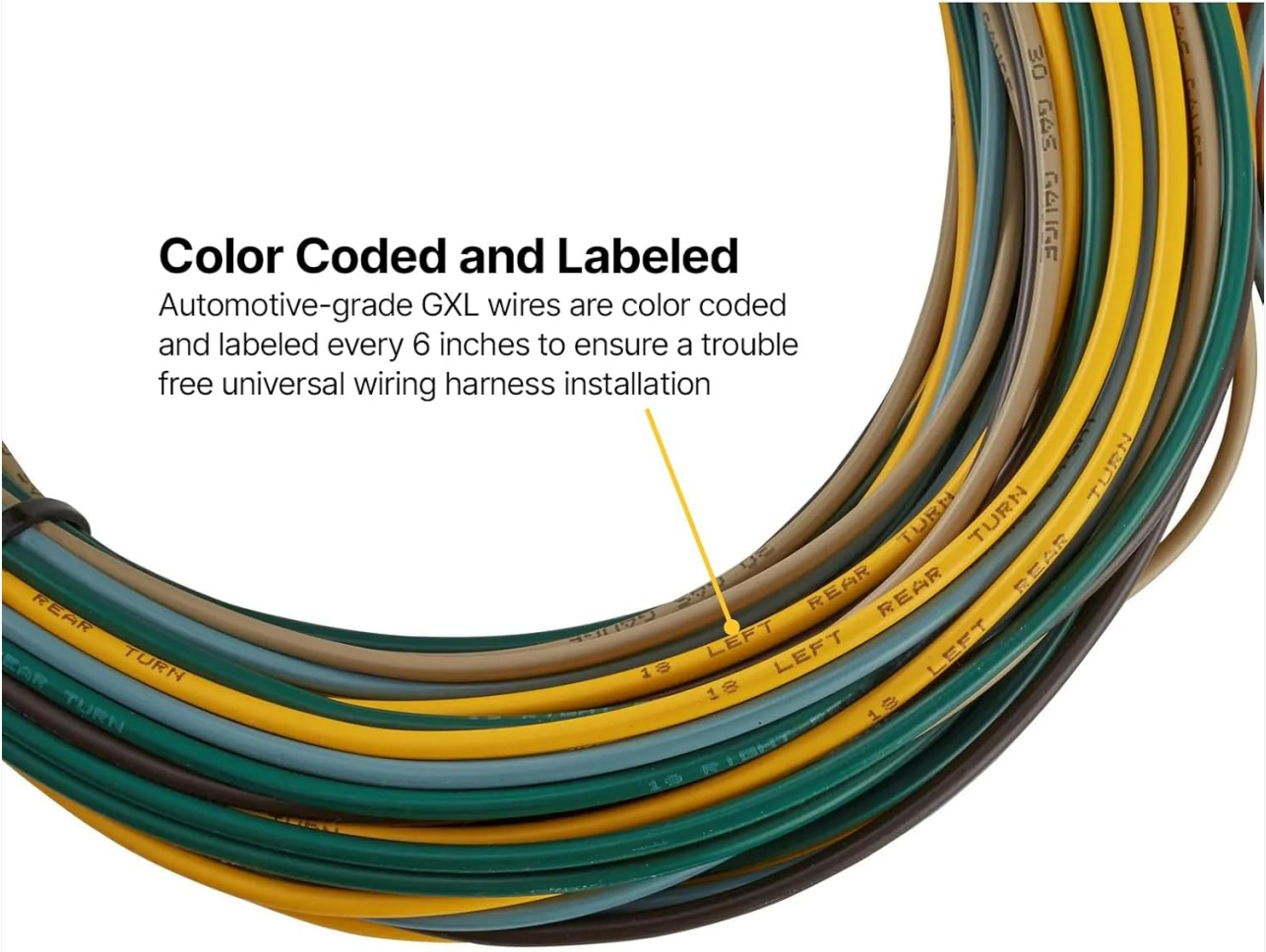


Figure 2: Detail of the GXL insulated wires, showing the clear color-coding and labeling every 6 inches for easy identification during installation.

## Professional Appearance

OEM style fuse block with an integrated flasher unit mount delivers a professional appearance

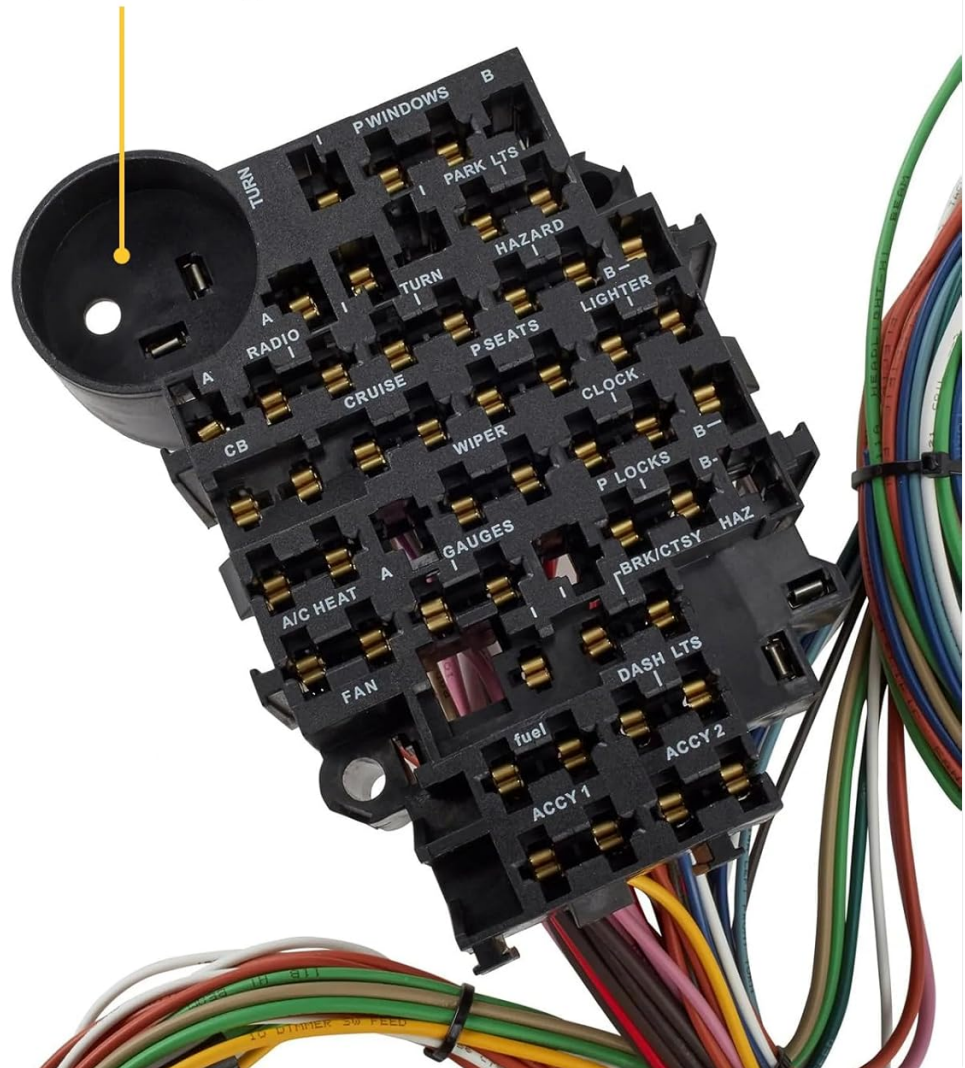


Figure 3: The OEM style fuse block, designed for a professional appearance and efficient organization of circuits.

### 3. SETUP AND INSTALLATION

Before beginning installation, carefully review all included instructions and diagrams. Ensure the vehicle's battery is disconnected to prevent electrical shorts or injury.

#### 3.1. Component Identification

Familiarize yourself with all components of the kit, including the main harness, fuse block, GM column plug, headlight switch, dimmer switch, and various accessories. The wires are bundled into 11 main branches for easier management.

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Video 1: An overview of the Speedway Motors Universal 22 Circuit Wiring Harness, highlighting its features and components, and demonstrating its ease of use for various automotive applications.



### Accessories included

Figure 4: A selection of accessories provided with the kit, including connectors, fuses, and switches, to aid in a complete installation.

### 3.2. Connecting the GM Column Plug

The pre-wired GM column plug is designed for direct connection to 1968-96 GM tilt steering columns. This plug-and-play feature significantly reduces installation time for compatible vehicles.

## Plug-and-Play Installation

Includes GM column wiring plug (ribbon plug), which comes pre-wired making it a plug-and-play installation with 1968-96 GM tilt steering columns



Figure 5: Demonstration of connecting the GM column wiring plug, illustrating the plug-and-play design for compatible steering columns.

### 3.3. Fuse Block Installation

The OEM style fuse block can be mounted in a convenient location, typically under the dashboard or in the engine bay, ensuring easy access for maintenance. The two-piece design allows for simple removal and service.

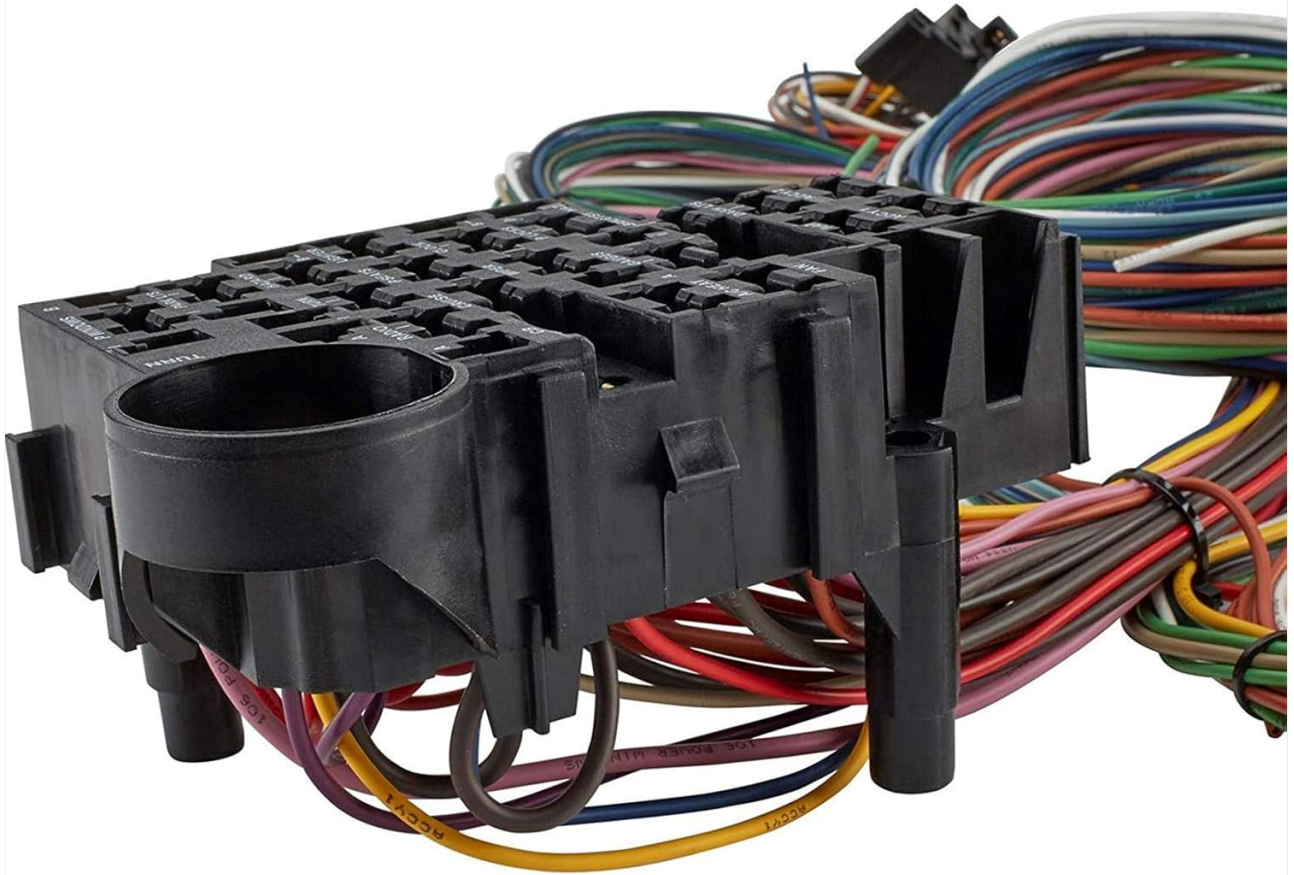


Figure 6: A detailed view of the fuse box with various circuits connected, showcasing its compact and organized design.

### 3.4. Wiring and Routing

Route the color-coded and labeled wires to their respective components throughout the vehicle. The detailed instructions and wiring diagrams provided with the kit are essential for accurate connections. The 17-foot tail light leads offer ample length for various vehicle sizes.



Figure 7: The complete wiring harness laid out on a workbench alongside the detailed instruction sheets, illustrating the organized nature of the kit.

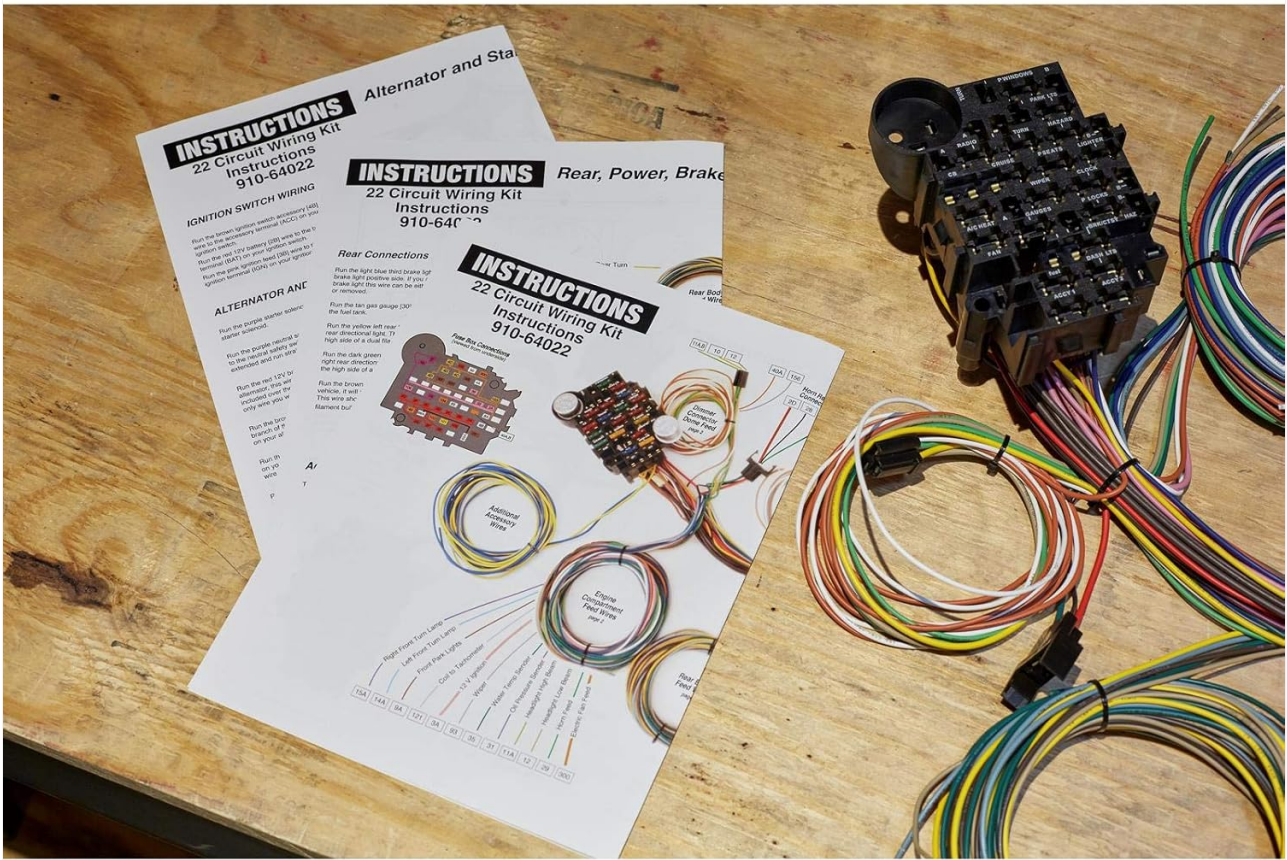


Figure 8: Close-up of the instruction manuals provided, which include comprehensive wiring diagrams to guide the installation process.

## 4. SYSTEM OVERVIEW AND OPERATION

The 22-circuit design covers all major vehicle systems, providing power and control for essential functions. Each circuit is individually fused for protection.

### 4.1. Circuit Branches

The harness is divided into 11 conveniently bundled branches, simplifying the connection process:

- Engine compartment feed wires (note: EFI engines may require an additional engine-specific harness).
- Instrument cluster feed wires (for mechanical or electric gauges).
- Ignition/Headlight/Dimmer/Turn Signal/Brake Light switch lead wires with connectors.
- Radio/Heater/Air Conditioning feed wires.
- Rear body feed wires.

- Additional accessory wires.

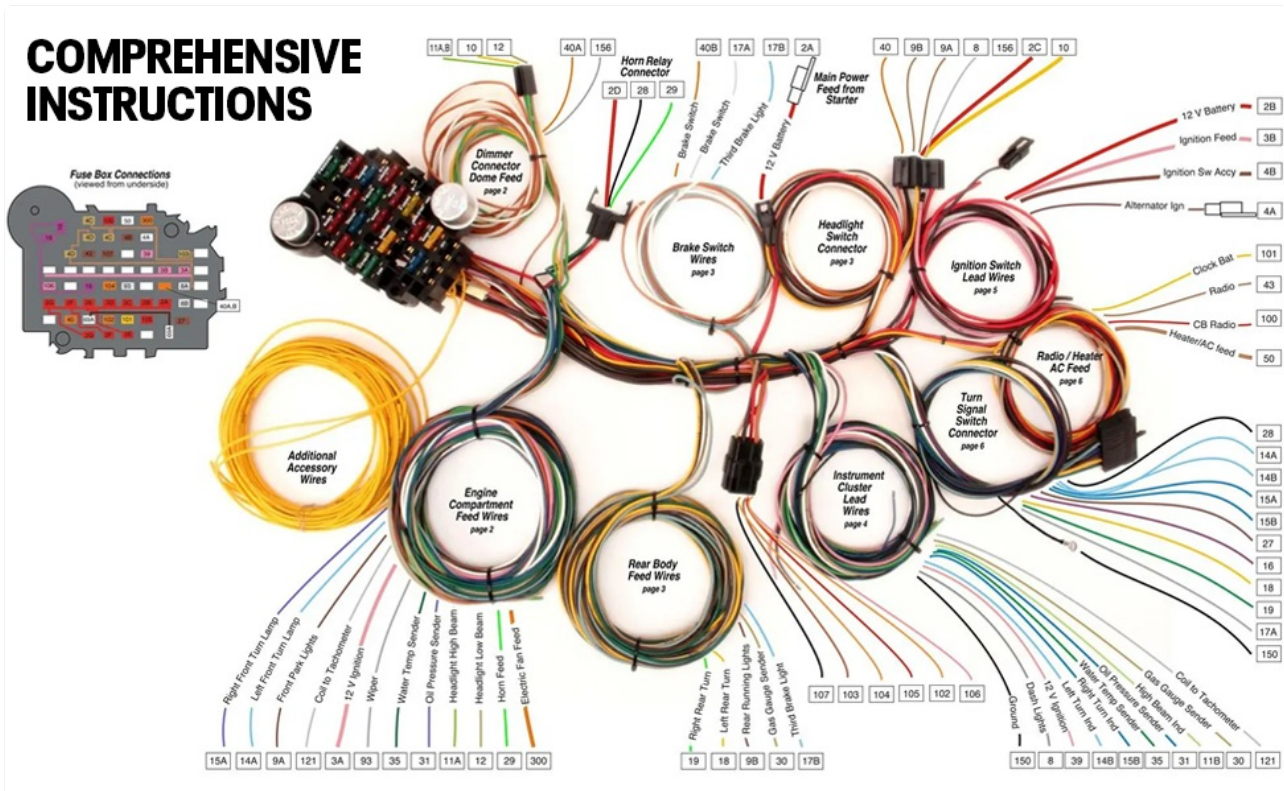


Figure 9: A comprehensive wiring diagram illustrating the various circuits and their connections within the harness, crucial for proper installation and understanding.

## CONVENIENTLY BUNDLED WIRES

Our universal 22-circuit harness consists of 11 branches that are conveniently bundled, so you can get started right away. Here's a quick rundown of those branches:

- Engine compartment feed wires (EFI engines will need an additional engine-specific harness)
- Instrument cluster feed wires (mechanical or electric gauges)
- Ignition/Headlight/Dimmer/Turn Signal/Brake Light switch lead wires with connectors
- Radio/Heater/Air Conditioning feed wires
- Rear body feed wires
- Additional accessory wires

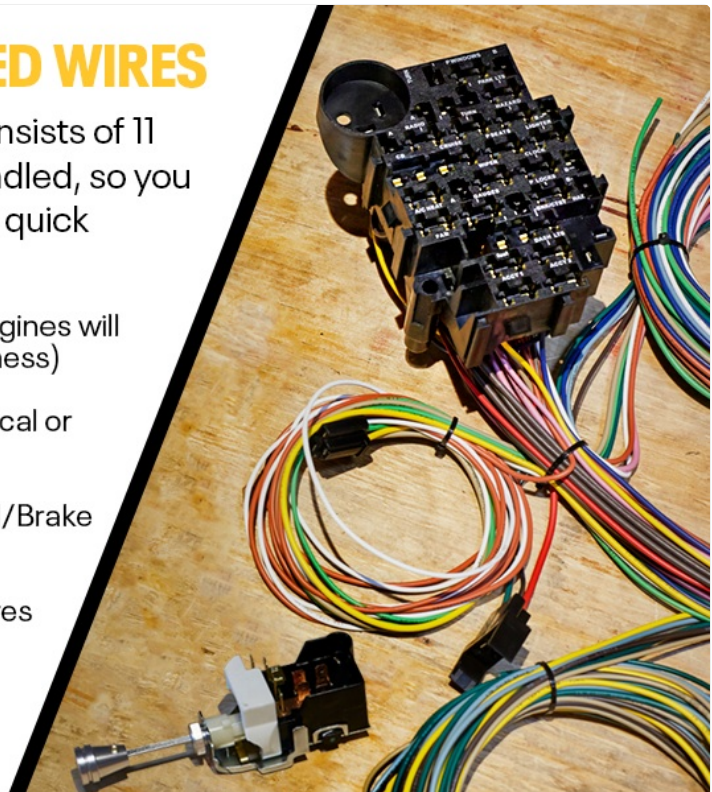


Figure 10: The conveniently bundled wires of the universal 22-circuit harness, showing the main branches for organized installation.

Regular maintenance of your vehicle's electrical system, including the wiring harness, ensures long-term reliability.

### 5.1. Fuse Replacement

The fuse block uses modern ATO blade-style fuses. If a circuit fails, check the corresponding fuse in the fuse block. Always replace a blown fuse with one of the same amperage rating.

### 5.2. Connection Checks

Periodically inspect all connections for tightness and corrosion. Ensure all terminals are securely crimped and insulated where necessary. Loose or corroded connections can lead to intermittent electrical issues.

## 6. TROUBLESHOOTING

This section addresses common issues you might encounter. For complex problems, consult a professional automotive electrician.

### 6.1. No Power to a Component

- Check the corresponding fuse in the fuse block.
- Verify the ground connection for the component.
- Inspect the wire leading to the component for damage or loose connections.

### 6.2. Lights Not Functioning Correctly

- Ensure the headlight and dimmer switches are correctly wired and functioning.
- Check the bulbs for continuity.
- Verify all ground connections for the lighting system.

Refer to the comprehensive wiring diagrams provided with your kit for detailed circuit paths and wire identification.

## 7. SPECIFICATIONS

Attribute	Value
Product Dimensions	19.5 x 11.7 x 4.5 inches
Item Weight	10 Pounds
Material	Lead (referring to lead-free components where applicable, or historical material usage)
Cable Type	Ribbon (for GM column plug)
Manufacturer	Speedway Motors
Date First Available	July 13, 2016

## 8. WARRANTY AND SUPPORT

For warranty information, technical support, or assistance with your Speedway Motors Universal 22-Circuit Automotive Wiring Harness Kit, please contact Speedway Motors directly. Their customer service team can provide expert advice and support for installation and troubleshooting.

Visit the official Speedway Motors website or refer to the contact information provided with your purchase for details.