NR NIRIDER 1

Nirider 1 Lead 12V 40A Rock Switch Relay Fuse Nylon Wiring Harness Kit User Manual

Model: 1

Introduction

This manual provides detailed instructions for the installation, operation, and maintenance of your Nirider 1 Lead 12V 40A Rock Switch Relay Fuse Nylon Wiring Harness Kit. This kit is designed to simplify the connection of various 12V LED lighting accessories, such as light bars, fog lights, work lights, driving lights, and LED pods, to your vehicle's electrical system. Please read this manual thoroughly before installation and use to ensure proper function and safety.

Safety Information

- Always disconnect the vehicle's battery before performing any electrical work to prevent short circuits and electrical shock.
- Ensure all connections are secure and properly insulated to prevent corrosion and electrical hazards.
- Do not exceed the maximum wattage rating of 400W for this wiring harness.
- Verify that the fuse rating (30A) is appropriate for your connected accessories. Do not replace with a higher-rated fuse.
- Consult a professional if you are unsure about any part of the installation process.
- Keep wiring away from hot engine parts, moving components, and sharp edges.

Package Contents

The Nirider 1 Lead Wiring Harness Kit includes the following components:

- 1x Wiring Harness with 1 Lead
- 1x On/Off Rocker Switch
- 1x 40A Plug-in Style Relay
- 1x ATO Style 30A Fuse with Waterproof Cap
- Positive and Negative Battery Wires with Ring Terminals

- Female Fully Insulated Connectors
- Male Fully Insulated Connectors
- 3-Pin Plug (for extending harness length if needed)

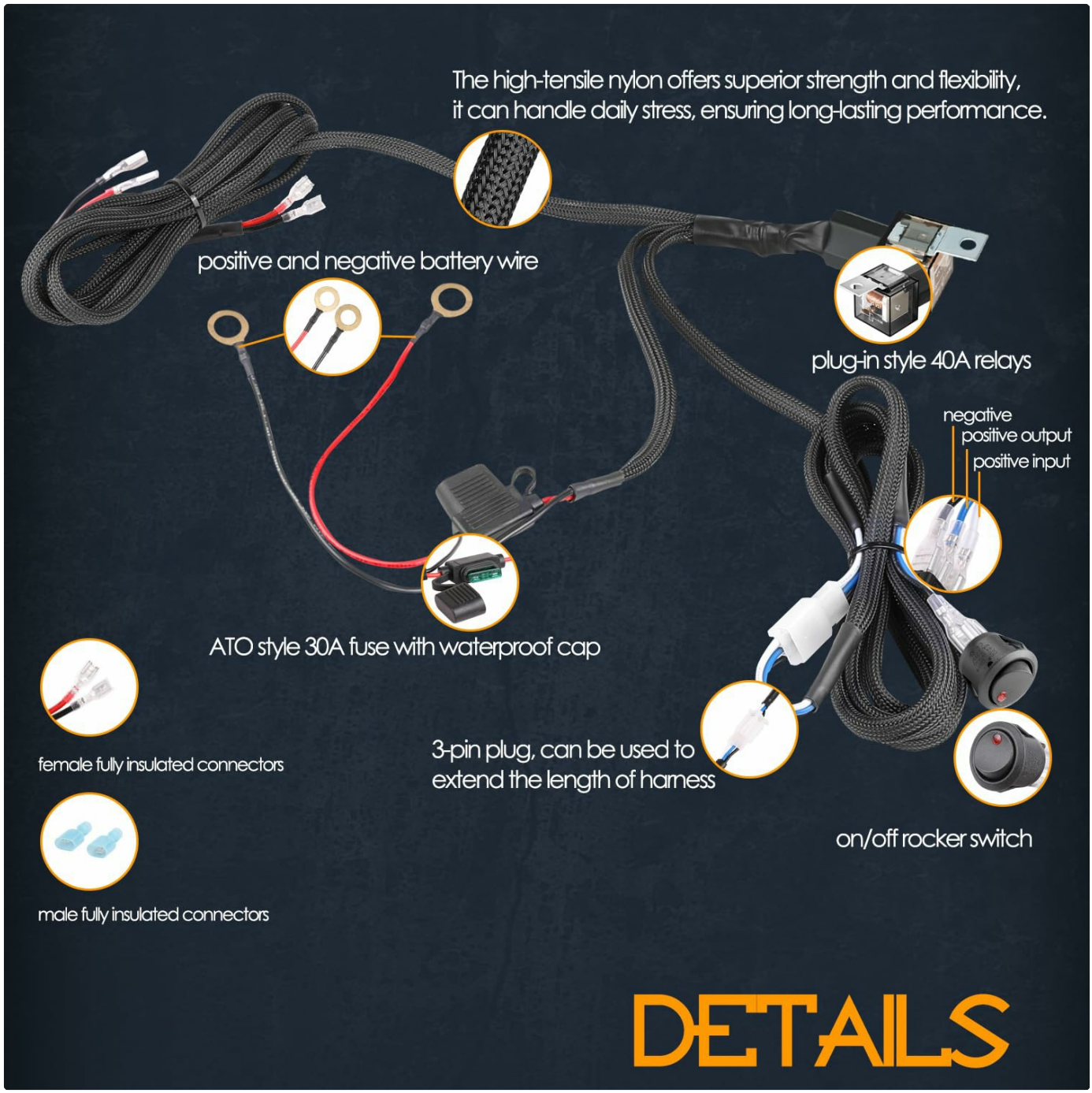


Image: Detailed view of the wiring harness components.



Image: Various components of the wiring harness kit.

Specifications



Image: Wiring harness dimensions and specifications.

Overall Length	14.7 ft (approximately 4.48 meters)
Switch Type	On/Off Rocker Switch
Relay Type	Plug-in Style 40A Relay (12V DC)
Fuse Type	ATO Style 30A Fuse with Waterproof Cap
Max Wattage	400W
Wire Gauge	14 AWG
Materials	Durable Nylon Wiring
Lifespan	50,000+ hours
Protection	High Temperature Protection

Compatibility	Fits 2-inch to 54-inch LED lights
Manufacturer Part Number	NR427
Model Number	1
UPC	612292096182

Setup and Installation

Follow these steps to properly install your wiring harness kit. Refer to the wiring diagram for visual guidance.

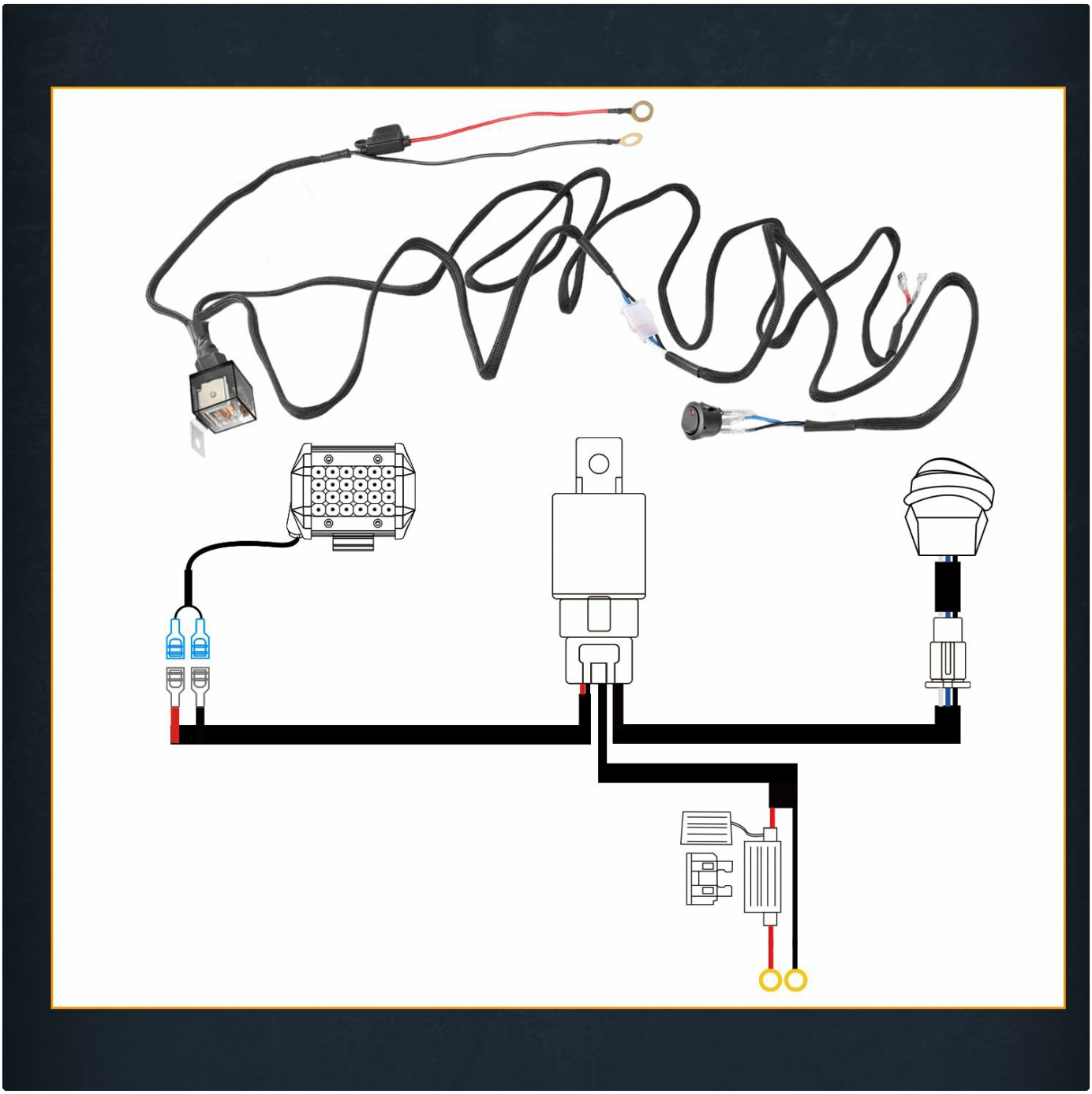


Image: Wiring diagram for installation.

1. **Disconnect Battery:** Before starting, disconnect the negative terminal of your vehicle's battery to prevent electrical hazards.
2. **Mount Relay:** Find a suitable, dry location in your engine bay to mount the 40A relay. Ensure it is secure and away

from excessive heat or moisture.

3. **Connect to Battery:** Connect the positive (+) red wire with the ring terminal to the positive terminal of your vehicle's battery. Connect the negative (-) black wire with the ring terminal to the negative terminal of your vehicle's battery or a suitable ground point on the chassis.
4. **Install Fuse:** Ensure the 30A ATO fuse is properly seated in its waterproof holder. This fuse provides overcurrent protection for your circuit.
5. **Route Wiring:** Carefully route the wiring harness from the battery/relay area to the desired mounting location for your LED light(s) and the rocker switch. Use zip ties or cable clamps to secure the wiring and prevent it from chafing or interfering with moving parts.
6. **Connect to LED Light:** Connect the output wires from the harness (typically red for positive and black for negative) to your LED light bar or other 12V accessory. Use the provided fully insulated connectors for a secure connection.
7. **Install Rocker Switch:** Install the on/off rocker switch in a convenient location within your vehicle's cabin. The switch typically requires a cutout for flush mounting. Connect the switch wires to the corresponding wires on the harness. The image shows positive input, positive output (controls relay), and negative (controls red indicator light).
8. **Optional Extension:** If additional length is required for the light connection, utilize the 3-pin plug to extend the harness.
9. **Reconnect Battery:** Once all connections are made and secured, reconnect the negative terminal of your vehicle's battery.
10. **Test Functionality:** Turn on the rocker switch to test if your LED light(s) illuminate correctly.



Image: Details of the rocker switch and automotive relay.



Image: Examples of wiring harness application with LED lights.

Operating Instructions

Once installed, operating the Nirider wiring harness is straightforward:

- **Power On:** Press the rocker switch to the "ON" position. The integrated indicator light on the switch will illuminate, and your connected LED light(s) will turn on.
- **Power Off:** Press the rocker switch to the "OFF" position. The indicator light will turn off, and your connected LED light(s) will extinguish.

Maintenance

To ensure the longevity and reliable performance of your wiring harness, consider the following maintenance tips:

- **Regular Inspection:** Periodically inspect all wiring, connections, and components for signs of wear, corrosion, or

damage.

- **Clean Connections:** If corrosion is present on battery terminals or other connections, clean them thoroughly and apply dielectric grease to prevent future corrosion.
- **Fuse Check:** If your light fails to turn on, check the 30A ATO fuse. If it is blown, replace it with a fuse of the exact same rating (30A). Never use a fuse with a higher amperage rating.
- **Secure Wiring:** Ensure all wiring remains securely fastened and away from heat sources or moving parts. Re-secure any loose wiring.

Troubleshooting

If you encounter issues with your wiring harness, refer to the following troubleshooting guide:

- **Light Does Not Turn On:**
  - Check the 30A fuse. Replace if blown.
  - Ensure all battery connections are secure and clean.
  - Verify the relay is properly seated and functioning.
  - Confirm the rocker switch is correctly wired and in the "ON" position.
  - Check the connections to the LED light itself.
- **Switch Indicator Light Does Not Work:**
  - Check the negative connection to the switch, as this often controls the indicator light.
  - Ensure the switch itself is not faulty.
- **Fuses Blow Repeatedly:**
  - This indicates an overload or a short circuit. Ensure the total wattage of your connected lights does not exceed 400W.
  - Inspect the wiring for any pinched, cut, or exposed sections that could be causing a short.
  - Verify the LED light itself is not faulty and drawing excessive current.

Warranty and Support

Specific warranty information for the Nirider 1 Lead 12V 40A Rock Switch Relay Fuse Nylon Wiring Harness Kit is not provided in this manual. For warranty details, technical support, or further assistance, please contact the manufacturer or your point of purchase. Keep your purchase receipt as proof of purchase.

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