

EKYLIN FLT-318

EKYLIN Car Power Filter (Model FLT-318) Instruction Manual

This manual provides detailed instructions for the installation, operation, and maintenance of your EKYLIN Car Power Filter.

1. PRODUCT OVERVIEW

The EKYLIN Car Power Filter is designed to eliminate Electromagnetic Interference (EMI) and ground loop noise from your vehicle's 12V power source. This device is particularly effective for car audio systems, sensitive electronic equipment, and other 12V devices, ensuring clearer sound output.

- **Eliminates EMI/Ground Loop Interference:** Reduces unwanted electrical noise in your audio system.
- **Reduces Audio Noise:** Filters noise generated by various car electronics, including the alternator and ignition system.
- **Wide Compatibility:** Compatible with most DC 12V devices, such as car stereos, receivers, equalizers, amplifiers, and speakers.

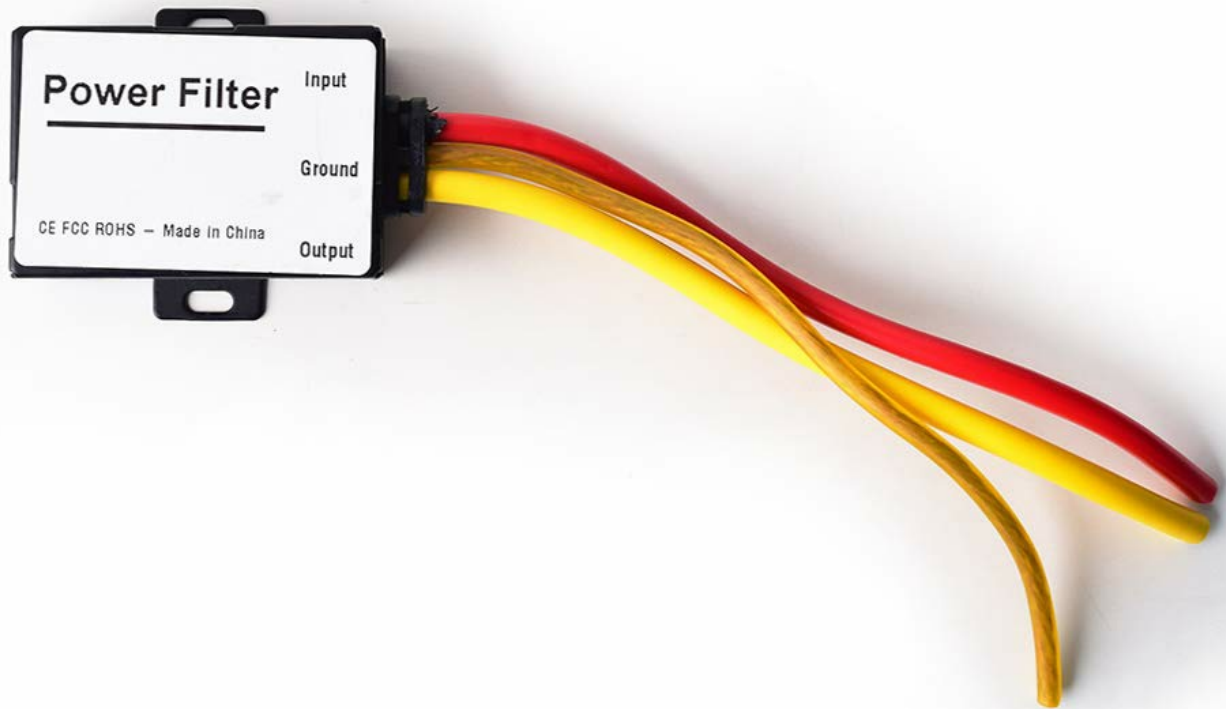


Image 1.1: The EKYLIN Car Power Filter with its input, ground, and output wires.



Suitable for



Car Equalizer



Car Amplifier



Car Stereos

Image 1.2: The power filter is suitable for car equalizers, amplifiers, and stereos.

2. SPECIFICATIONS

Model	FLT-318
Item Dimensions (L x W x H)	2.52 x 1.69 x 0.98 inches (6.4 x 4.3 x 2.5 cm)
Voltage	12 Volts DC
Maximum Supply Voltage	12 Volts
Minimum Supply Voltage	12 Volts DC
Mounting Type	Surface Mount
Number of Channels	1

Material Type	Electronic-Grade Plastic
Manufacturer	EKYLIN



Image 2.1: Diagram illustrating the dimensions of the EKYLIN Car Power Filter: 2.52 inches (length), 1.69 inches (width), and 0.98 inches (height).

3. INSTALLATION INSTRUCTIONS (SETUP)

Proper installation is crucial for the effective operation of the power filter. Follow these steps carefully:

- 1. Identify Wires:** The filter has three wires: **Red** (Input +12V), **Yellow** (Output), and **Black** (Ground).
- 2. Connect Red Wire:** Connect the **red wire** of the filter to the vehicle's 12V positive (+) battery terminal or a constant 12V power source. This is the input power for the filter.
- 3. Connect Yellow Wire:** Connect the **yellow wire** of the filter to the power cable of your car stereo or the device you

wish to filter. This is the wire that supplies filtered electricity to your audio system.

4. **Connect Black Wire:** Connect the **black wire** of the filter to the vehicle's metal frame or any available ground wire. Ensure a secure, clean connection to a bare metal surface for optimal grounding.

Note: For best performance, ensure all connections are secure and properly insulated. Incorrect wiring can lead to device malfunction or damage.

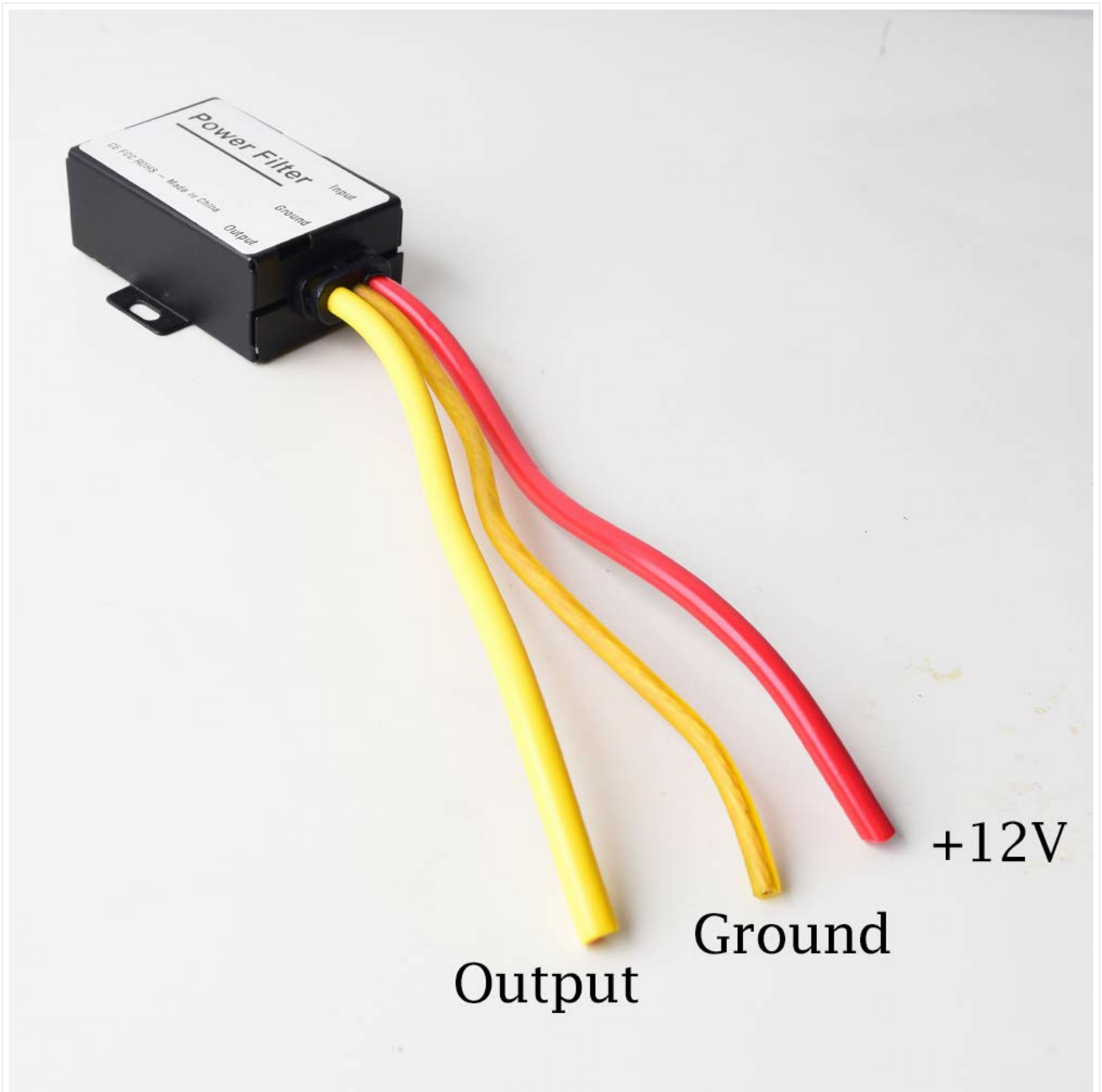


Image 3.1: Detailed wiring diagram for the EKYLIN Car Power Filter, showing connections for Red (+12V Input), Yellow (Output), and Black (Ground).

Power Line Filter

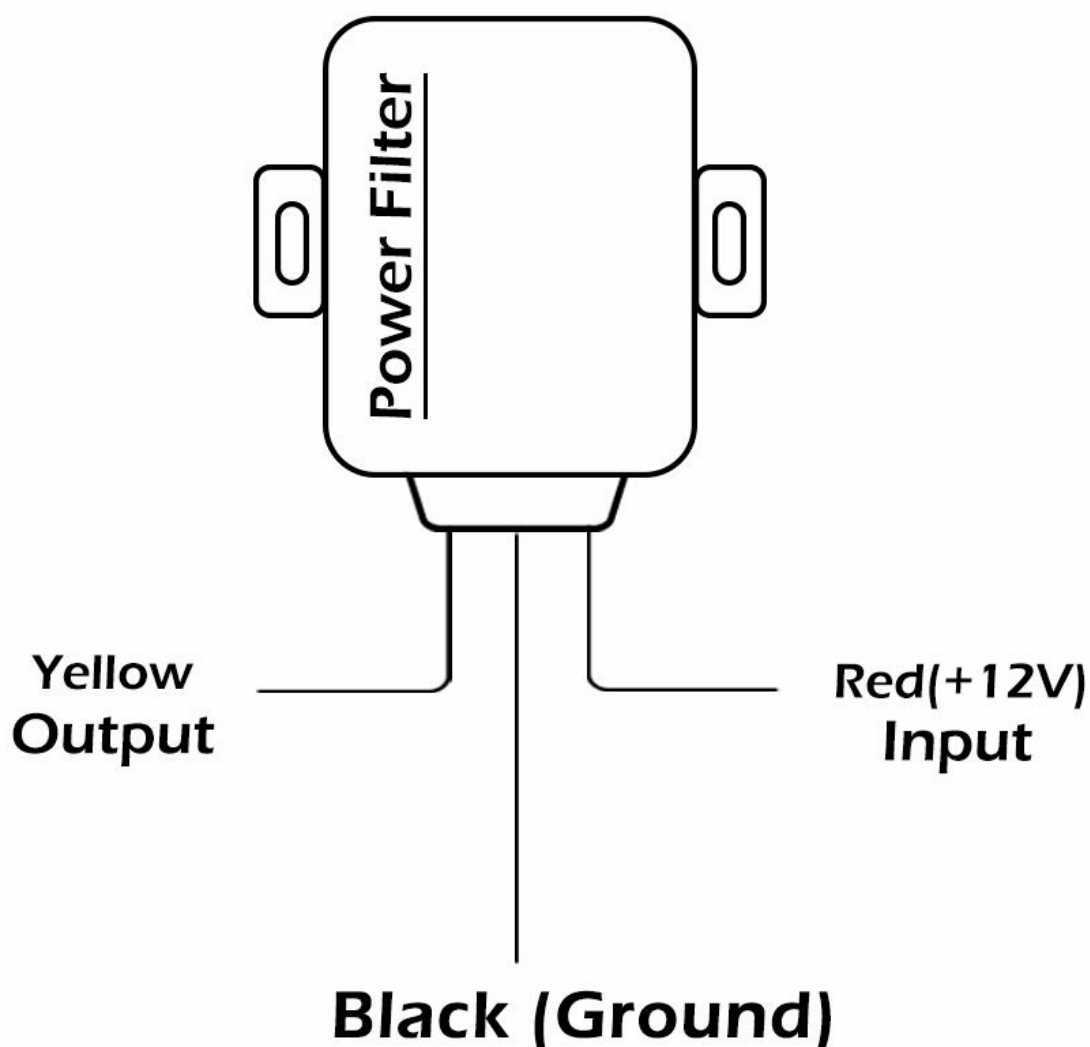


Image 3.2: Simplified diagram of the power line filter connections.

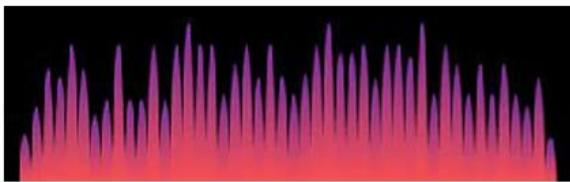
4. OPERATION

Once correctly installed, the EKYLIN Car Power Filter operates automatically. It continuously filters the 12V power supply to your connected device, reducing EMI and ground loop interference.

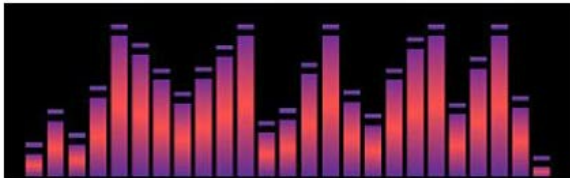
The filter works by isolating the power source, preventing electrical noise generated by other vehicle components (such as the alternator, ignition system, or cigarette lighter) from reaching your audio system. This results in a significant improvement in sound clarity and quality.



Reduce noise and interference



Before



After

Image 4.1: Visual representation of audio signal quality before and after using the EKYLIN Car Power Filter, demonstrating noise reduction.

5. MAINTENANCE

The EKYLIN Car Power Filter is a low-maintenance device designed for durability. To ensure its longevity and continued performance, consider the following:

- **Regular Inspection:** Periodically check all wire connections to ensure they remain secure and free from corrosion. Loose or corroded connections can degrade performance.
- **Cleanliness:** Keep the device free from excessive dust, dirt, and moisture. If cleaning is necessary, gently wipe the exterior with a dry, soft cloth. Do not use liquid cleaners.
- **Avoid Physical Damage:** Ensure the filter is mounted in a location where it is not subject to physical impact, excessive vibration, or extreme temperatures.

6. TROUBLESHOOTING

If you experience persistent noise or issues after installation, consider the following troubleshooting steps:

- **Check All Connections:** Verify that the red, yellow, and black wires are securely connected as per the installation instructions. Loose connections are a common cause of ineffective noise reduction.
- **Inspect Grounding:** Ensure the black ground wire is connected to a clean, bare metal surface on the vehicle's chassis. A poor ground connection can significantly reduce the filter's effectiveness.
- **Verify Power Source:** Confirm that the 12V power source connected to the red input wire is stable and providing adequate voltage. Fluctuating voltage can sometimes mimic noise.
- **Isolate Noise Source:** If noise persists, try to identify if the noise is coming from a specific component. Temporarily disconnect other accessories or audio components one by one to pinpoint the exact source of the interference.
- **Fuse Issues:** If the device stops working or causes a fuse to blow, immediately disconnect it. Check for any short circuits in your wiring or a potential fault within the filter itself.

If problems persist after following these steps, it is recommended to contact customer support for further assistance.

7. WARRANTY INFORMATION

EKYLIN products are manufactured to high-quality standards and undergo rigorous testing. For specific warranty terms and conditions applicable to your Car Power Filter (Model FLT-318), please refer to the product packaging or the official EKYLIN website. It is important to retain your purchase receipt as proof of purchase for any warranty claims.

8. CUSTOMER SUPPORT

For technical assistance, installation queries, or to report any issues with your EKYLIN Car Power Filter, please contact EKYLIN customer support. You can typically find contact information through the retailer where the product was purchased or by visiting the official EKYLIN website.

When contacting support, please have your product model (FLT-318) and purchase details readily available to facilitate a quicker resolution.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

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Question

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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