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NF-40WB

GENERIC Universal 70 Amp Audio CB Noise Filter Suppressor

MODEL: NF-40WB

1. Introduction

This manual provides essential information for the proper installation, operation, and maintenance of your GENERIC Universal 70 Amp Audio CB Noise Filter Suppressor. This device is designed to reduce or eliminate common power-related electronic noise, such as alternator whine or background static, in 12-Volt DC car audio systems. Please read this manual thoroughly before installation to ensure safe and correct usage.

2. Safety Information

- **Disconnect Power:** Always disconnect the vehicle's battery negative terminal before performing any electrical work to prevent short circuits and electrical shock.
- **Voltage Compatibility:** This device is designed exclusively for 12-Volt DC systems. Do not attempt to use it with 6-Volt systems or any other voltage, as this may damage the device and your vehicle's electrical system.
- **Professional Installation:** If you are unsure about any part of the installation process, it is recommended to seek assistance from a qualified automotive audio technician.
- **Wiring:** Ensure all connections are secure and properly insulated to prevent short circuits and potential fire hazards.
- **Mounting:** Mount the device in a location where it is protected from excessive heat, moisture, and physical damage. Ensure it does not interfere with moving parts or vehicle operation.

3. Package Contents

- 1x GENERIC Universal 70 Amp Audio CB Noise Filter Suppressor (Model NF-40WB)

Note: No additional accessories are included with this unit.

4. Product Features

- Designed to eliminate common power-related electronic noise in car audio systems.
- Effective against background noise and alternator whine.
- Compatible with 12-Volt DC vehicle electrical systems.
- Rated for 40 Amp nominal current, with a 70 Amp maximum capacity.
- Compact design for easy integration into vehicle wiring.

5. Setup and Installation

The noise filter is typically installed in the engine compartment, often near the alternator or the power source of the affected audio component. Proper wiring is crucial for effective noise suppression.

1. **Prepare for Installation:**
    - Ensure the vehicle's ignition is off.
    - Disconnect the negative (-) terminal from the vehicle's battery.
    - Identify the power wire leading to the audio component (e.g., amplifier, head unit) that is experiencing noise.
2. **Wiring Connections:**
    - **Positive Input (Red wire with ring terminal):** Connect this wire to the 12V positive power source. This can be directly from the battery positive terminal, the alternator output terminal, or a main power distribution block. Ensure this connection is fused appropriately for your audio system's total current draw.
    - **Ground (Blue wire):** Connect this wire securely to a clean, unpainted metal chassis point on the vehicle. A good ground connection is essential for the filter's effectiveness.
    - **Positive Output (Red wire with butt connector):** Connect this wire to the positive power input of the audio component (e.g., amplifier, stereo) that is experiencing noise. This wire should be placed in-line with the existing power wire to the component.
3. **Secure Mounting:** Mount the noise filter securely in a dry, accessible location away from extreme heat, moving parts, and direct exposure to water. Use zip ties or mounting clips if necessary to prevent the unit from moving or wires from chafing.
4. **Final Check:** Double-check all connections for tightness and proper insulation. Ensure no bare wires are exposed.
5. **Reconnect Power:** Reconnect the negative (-) terminal to the vehicle's battery.



Image 1: Top-down view of the GENERIC noise filter, highlighting the black cylindrical body, red positive input wire with a ring terminal, blue ground wire with a spade terminal, and red positive output wire with a butt connector.

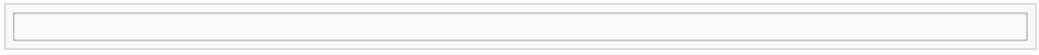


Image 2: Another view of the GENERIC noise filter, showing the compact design and the different wire terminations for installation.

6. Operation

Once correctly installed, the GENERIC Noise Filter operates automatically. It is a passive device that continuously filters electrical noise from the 12-Volt DC power supply to your audio components. No user interaction is required after installation.

7. Maintenance

The GENERIC Noise Filter is designed to be maintenance-free. However, periodic checks are recommended:

- **Connection Integrity:** Periodically inspect all wiring connections to ensure they remain tight and free from corrosion.
- **Physical Condition:** Check the unit for any signs of physical damage, such as cracks or melted plastic.
- **Wire Insulation:** Ensure all wire insulation is intact and not chafed or damaged.

8. Troubleshooting

If you experience issues after installing the noise filter, consider the following:

- **Noise Persists:**
  - **Check Ground Connection:** Ensure the blue ground wire is connected to a clean, solid chassis ground point. A poor ground is a common cause of persistent noise.
  - **Verify Wiring:** Double-check that the positive input and output wires are correctly connected in-line with the power supply to the affected audio component.
  - **Other Noise Sources:** The noise may not be power-related. Check for poorly shielded RCA cables, antenna issues, or ground loops elsewhere in the audio system.
  - **System Compatibility:** Ensure your system is 12V DC. This filter will not work with 6V systems.
- **No Power to Audio Component:**
  - **Check Connections:** Ensure all wires to and from the filter are securely connected.
  - **Check Fuses:** Verify that any in-line fuses in your audio system's power wiring are intact and not blown.
  - **Filter Malfunction:** In rare cases, the filter itself might be faulty. If all other troubleshooting steps fail, bypass the filter temporarily to see if power is restored to the audio component.

9. Specifications

Model	NF-40WB
Voltage Compatibility	12 Volts DC (Direct Current)
Nominal Current	40 Amps
Maximum Current	70 Amps
Dimensions (Approx.)	72mm Length x 40mm Diameter
Input Connection	Red wire with Ring Terminal (Positive)
Ground Connection	Blue wire (Ground)
Output Connection	Red wire with Butt Connector (Positive)
Material	Plastic, Rubber, Copper (Wires)

10. Warranty and Support

For warranty information and technical support, please refer to the retailer where you purchased this product or visit the manufacturer's official website. Keep your proof of purchase for warranty claims.

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