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Nobsound GFB1264

Nobsound GFB1264 Vacuum Tube FM Radio Tuner & Stereo Receiver DIY Kit Instruction Manual

Model: GFB1264

Introduction

This manual provides detailed instructions for assembling and operating the Nobsound GFB1264 Vacuum Tube FM Radio Tuner & Stereo Receiver DIY Kit. This kit is designed for enthusiasts with existing soldering skills and electronic knowledge. Successful assembly requires careful attention to the provided circuit diagrams and step-by-step instructions.
Important Note: This is a Do-It-Yourself (DIY) kit. It requires assembly and does not come as a pre-built unit. If you require a finished product, please consider purchasing a pre-assembled model.

Package Contents

The Nobsound GFB1264 DIY Kit includes all necessary components for assembly. Please verify that all items listed below are present before beginning assembly.

- Printed Circuit Board (PCB)
- Vacuum Tubes
- Capacitors (various types and values)
- Resistors (various types and values)
- Inductors/Coils
- Variable Capacitor (Tuning Capacitor)
- Tube Sockets
- Diodes and Integrated Circuits
- Connectors and Terminals
- Mounting hardware (if applicable)
- Detailed Electrical Circuit Diagram
- Assembly Instructions (this manual)

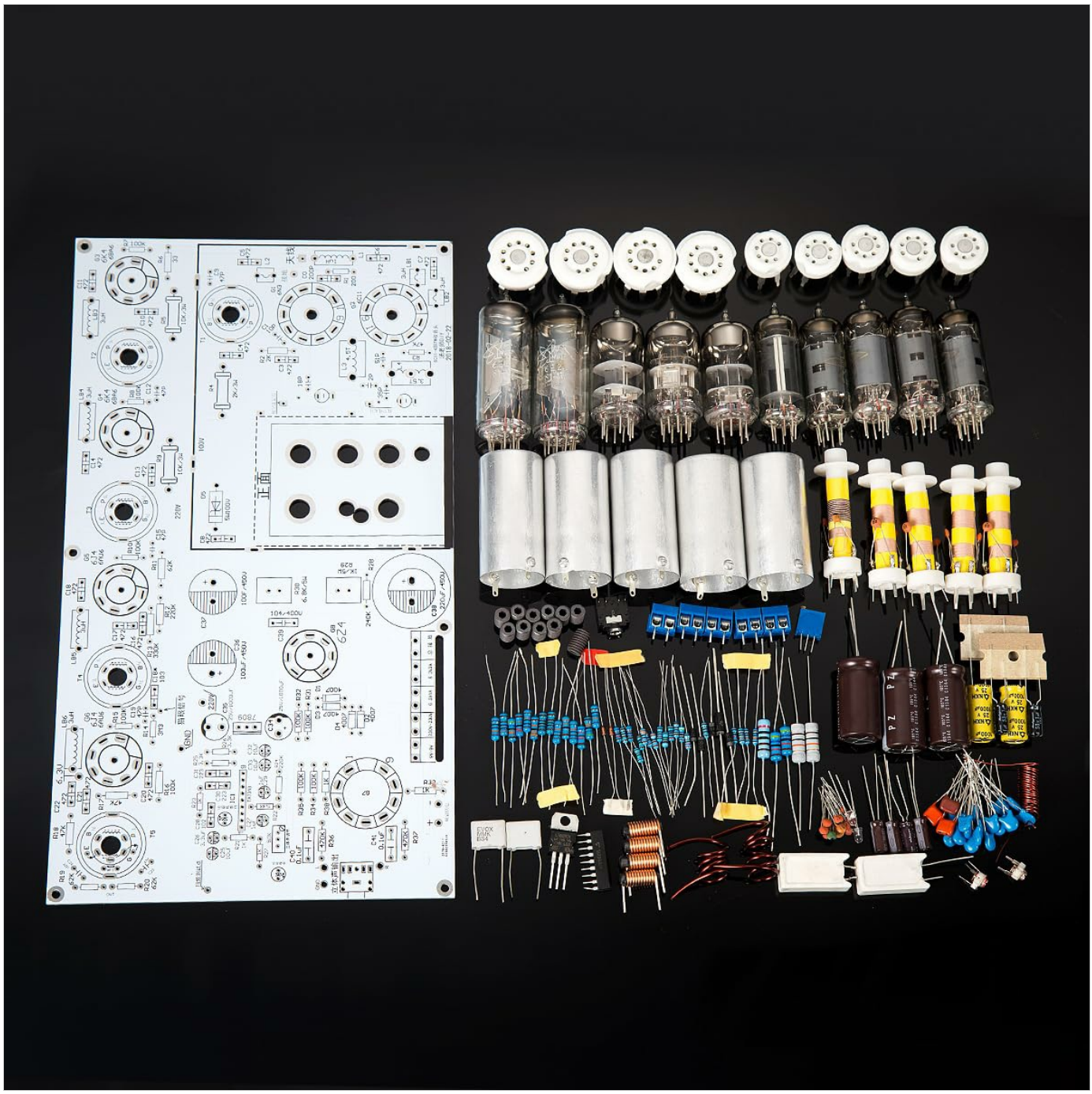


Image: All components included in the Nobsound GFB1264 DIY Kit.



Image: Detailed view of vacuum tubes and coils from the kit.

Setup and Assembly

Assembly of this kit requires precision and adherence to the provided circuit diagrams and instructions. Ensure you have a clean, well-lit workspace and the necessary tools (soldering iron, solder, wire cutters, multimeter, etc.).

1. **Review Documentation:** Before starting, thoroughly read the entire assembly manual and study the electrical circuit diagram. Familiarize yourself with all components and their placement on the PCB.
2. **Component Identification:** Identify and sort all components. Match them with the labels on the PCB and the circuit diagram.
3. **Soldering Components:** Begin by soldering smaller components (resistors, diodes) first, then proceed to larger components (capacitors, tube sockets, coils). Ensure correct polarity for polarized components like diodes and electrolytic capacitors.
4. **Vacuum Tube Installation:** Carefully insert the vacuum tubes into their respective sockets after all soldering is complete and verified.

5. **Power Supply Connection:** This kit requires an external power transformer (not included). The power transformer must provide:
    - High Voltage: 230V (or 110V) - 0 - 230V (or 110V) group with a current of 180mA.
    - Filament Voltage: Two 0-6.3V filament windings.
    - Additional Voltages: A 1A group, a 5A group, and a 9V 1A set for the decoder circuit.

    Caution: Incorrect power supply connections can damage the circuit and pose electrical hazards. Ensure all connections are secure and correct before applying power.
6. **Final Inspection:** After assembly, perform a thorough visual inspection for any cold solder joints, solder bridges, or incorrectly placed components. Use a multimeter to check for continuity and shorts where appropriate.



Image: Printed Circuit Board (PCB) layout.



Image: Assembled circuit board with dimensions.

Operating Instructions

Once the kit is fully assembled and verified, follow these steps to operate your FM radio tuner and stereo receiver.

1. **Connect Antenna:** Connect a suitable FM antenna to the designated antenna input terminals. The quality of the antenna will significantly impact reception.
2. **Connect Audio Output:** Connect the audio output of the receiver to an amplifier or powered speakers using appropriate audio cables.
3. **Connect Power:** Connect the external power transformer (not included) to the receiver's power input. Ensure the transformer meets the specified voltage and current requirements.
4. **Power On:** Turn on the power supply. Allow a few moments for the vacuum tubes to warm up.
5. **Tune to a Station:** Use the tuning knob (variable capacitor) to scan for FM radio stations. Adjust the tuning carefully to find clear reception.
6. **Adjust Volume:** Adjust the volume level on your connected amplifier or speakers. This kit typically provides a line-

level output.

Maintenance

Proper maintenance ensures the longevity and optimal performance of your vacuum tube receiver.

- **Cleaning:** Keep the unit clean and free from dust. Use a soft, dry cloth for external cleaning. For internal cleaning, use compressed air to remove dust from the PCB and components, ensuring the unit is powered off and unplugged.
- **Vacuum Tube Replacement:** Vacuum tubes have a finite lifespan. If you notice a degradation in sound quality or performance, individual tubes may need replacement. Refer to the circuit diagram for tube types.
- **Environmental Conditions:** Operate the receiver in a well-ventilated area to prevent overheating. Avoid exposure to excessive moisture, direct sunlight, or extreme temperatures.
- **Component Inspection:** Periodically inspect solder joints and components for any signs of wear, damage, or discoloration. Address any issues promptly.

Troubleshooting

If you encounter issues with your Nobsound GFB1264 kit, refer to the following troubleshooting guide:

Problem	Possible Cause	Solution
No power/No lights	• Power transformer not connected or faulty. • Incorrect wiring of power input. • Blown fuse (if applicable).	• Verify power transformer connection and functionality. • Check power input wiring against the circuit diagram. • Inspect and replace fuse if necessary (use correct rating).
No sound output	• Incorrect audio output connections. • Faulty vacuum tube(s). • Incorrect component placement or soldering errors. • No FM signal.	• Ensure audio cables are correctly connected to an amplifier/speakers. • Check vacuum tubes for proper seating and functionality. • Re-inspect all solder joints and component orientations. • Verify antenna connection and try tuning to a strong station.
Poor reception/Static	• Weak or improperly connected antenna. • Interference from other electronic devices. • Tuning not precise.	• Adjust antenna position or use a higher quality antenna. • Move the receiver away from potential interference sources. • Fine-tune the frequency carefully.
Overheating components	• Incorrect component value or type. • Short circuit. • Insufficient ventilation.	• Immediately power off and unplug. Verify all component values against the circuit diagram. • Check for any unintended solder bridges or shorts. • Ensure adequate airflow around the assembled unit.

If problems persist after following these steps, it is recommended to consult with an experienced electronics hobbyist or professional.

Specifications

Feature	Detail
Brand	Nobsound
Model Number	GFB1264
Product Type	DIY Vacuum Tube FM Radio Tuner & Stereo Receiver Kit
Dimensions (L x W x H)	26.7 cm x 14.8 cm x 6.8 cm (10.5 x 5.8 x 2.7 inches)
Weight	0.66 kg (1.46 lbs)
Material	Aluminum (chassis/components)
Power Transformer Requirements (**Not Included**)	• High Voltage: 230V (or 110V) - 0 - 230V (or 110V) @ 180mA • Filament Voltage: Two 0-6.3V windings • Decoder Circuit: 1A group, 5A group, 9V 1A set
Country of Origin	China

Warranty and Support

As this is a DIY kit requiring user assembly, specific warranty terms may vary. Please refer to the retailer or manufacturer's official website for the most up-to-date warranty information.
For technical support, assembly guidance, or inquiries regarding missing/defective components, please contact Nobsound customer service through their official channels. Detailed circuit diagrams and assembly instructions are provided to assist in the building process.
Note: Successful assembly and operation depend on the user's technical skills and adherence to instructions. Nobsound is not responsible for issues arising from improper assembly or modification.

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