



Manuals.plus /

- › Orange /
- › Orange PPC112 60W 1x12 Speaker Cabinet User Manual

Orange PPC112

Orange PPC112 60W 1x12 Speaker Cabinet

User Manual

1. INTRODUCTION

Thank you for choosing the Orange PPC112 60W 1x12 Speaker Cabinet. This cabinet is designed to deliver exceptional sound quality and durability for guitar amplification. It features a single 12-inch Celestion Vintage 30 speaker, housed within a rugged 18mm plywood enclosure, ensuring reliable performance and robust construction.

This manual provides essential information for the proper setup, operation, maintenance, and troubleshooting of your PPC112 speaker cabinet. Please read it thoroughly before use to ensure optimal performance and longevity of your equipment.



Figure 1: Front view of the Orange PPC112 speaker cabinet.

2. SAFETY INSTRUCTIONS

To prevent electric shock, fire, or damage to the equipment, please observe the following safety precautions:

- **Read Instructions:** Retain this manual for future reference.
- **Water and Moisture:** Do not expose this apparatus to rain or moisture. Do not use near water or in damp locations.
- **Ventilation:** Do not block any ventilation openings. Ensure proper airflow around the cabinet.
- **Heat:** Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- **Power-Source Matching:** Connect the speaker cabinet only to an amplifier with a compatible impedance and power rating. Refer to the specifications section for details.
- **Cables:** Use high-quality speaker cables for all connections. Never use instrument cables for speaker connections.
- **Cleaning:** Clean only with a dry cloth.
- **Servicing:** Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

3. SETUP

Proper setup is crucial for optimal sound and to prevent damage to your equipment.

3.1 Unpacking

Carefully remove the speaker cabinet from its packaging. Inspect the cabinet for any signs of damage that may have occurred during shipping. Retain the packaging for future transport or storage.

3.2 Placement

Position the speaker cabinet on a stable, level surface. Ensure there is adequate space around the cabinet for proper sound projection and to prevent obstruction of any potential ventilation points (though this is a closed-back cabinet, good practice applies). For best sound, avoid placing the cabinet directly against a wall or in a corner, which can cause excessive bass resonance.

3.3 Connecting to an Amplifier

The Orange PPC112 is a passive speaker cabinet and requires an external amplifier to produce sound. Follow these steps to connect your cabinet:

1. **Power Off:** Ensure your amplifier is turned off and unplugged from the mains power supply before making any connections.
2. **Impedance Matching:** Verify that the output impedance of your amplifier matches the 16 Ohm impedance of the PPC112 cabinet. Connecting an amplifier to a mismatched impedance can cause damage to both the amplifier and the speaker cabinet.
3. **Speaker Cable:** Use a high-quality speaker cable with appropriate connectors (typically 1/4-inch TS jacks) to connect the speaker output of your amplifier to one of the input jacks on the rear of the PPC112 cabinet. **Never use an instrument cable for this connection.**
4. **Secure Connections:** Ensure all connections are firm and secure.



Figure 2: Rear view of the Orange PPC112 speaker cabinet with input jacks.

4. OPERATING

Once the PPC112 cabinet is correctly connected to your amplifier, you can begin operation.

1. **Initial Power On:** With all connections secure and your instrument connected to the amplifier, turn on your amplifier. Start with the amplifier's master volume at its lowest setting.
2. **Volume Adjustment:** Gradually increase the amplifier's volume to your desired listening level. The PPC112 is rated for 60 watts, so ensure your amplifier's output does not exceed this rating for prolonged periods at high volumes to prevent speaker damage.
3. **Sound Monitoring:** Listen for any unusual noises or distortion. If you hear any, immediately reduce the volume and check all connections and amplifier settings.

The PPC112 is a straightforward passive cabinet. Its sound characteristics are primarily determined by the amplifier and the Celestion Vintage 30 speaker. Experiment with your amplifier's tone controls to achieve your desired sound.

5. MAINTENANCE

Regular maintenance will help preserve the appearance and performance of your speaker cabinet.

- **Cleaning:** Use a soft, dry cloth to wipe down the exterior of the cabinet. Avoid using abrasive cleaners, solvents, or excessive moisture, as these can damage the Tolex covering and grille cloth.
- **Storage:** When not in use, store the cabinet in a dry, temperature-controlled environment, away from

direct sunlight and extreme temperatures. If transporting, use appropriate covers or cases to protect the finish.

- **Inspection:** Periodically check all hardware (corners, handle, feet) for tightness. Ensure speaker cables are in good condition and connections remain secure.
- **Speaker Care:** The Celestion Vintage 30 speaker is robust, but avoid overdriving it beyond its rated power handling to prevent damage.

6. TROUBLESHOOTING

If you encounter issues with your PPC112 cabinet, refer to the following common troubleshooting steps:

6.1 No Sound

- **Check Connections:** Ensure the speaker cable is securely connected to both the amplifier's speaker output and the PPC112's input.
- **Amplifier Status:** Verify that your amplifier is powered on, not in standby mode, and its volume controls are set appropriately.
- **Cable Integrity:** Test the speaker cable with another known working cable if possible, or inspect it for damage.
- **Amplifier Fault:** Connect your amplifier to a different speaker cabinet (if available) to rule out an amplifier issue.

6.2 Distorted or Poor Sound Quality

- **Impedance Mismatch:** Double-check that your amplifier's output impedance matches the 16 Ohm impedance of the PPC112.
- **Amplifier Settings:** Ensure your amplifier's gain and volume settings are not excessively high, causing the amplifier or speaker to clip.
- **Input Signal:** Verify that the signal from your instrument is clean and not overdriving the amplifier's input.
- **Speaker Damage:** If the distortion persists and other components are ruled out, the speaker may be damaged. Contact qualified service personnel.

6.3 Rattling or Buzzing Noise

- **Loose Hardware:** Check all screws, corners, and the handle for tightness.
- **External Objects:** Ensure no loose objects are vibrating against or inside the cabinet.
- **Speaker Mounting:** If accessible, check the screws holding the speaker in place. Do not overtighten.
- **Cabinet Integrity:** Inspect the cabinet for any cracks or loose joints.

7. SPECIFICATIONS

| Feature | Specification |
|-----------------------|----------------------|
| Model Name | PPC112 |
| Speaker Configuration | 1 x 12-inch |
| Speaker Type | Celestion Vintage 30 |
| Power Handling | 60 Watts |
| Impedance | 16 Ohms |
| Enclosure Material | 18mm Plywood |
| Item Weight | 5 Kilograms |
| Manufacturer | Orange |
| Model Number | PPC112C |

8. WARRANTY AND SUPPORT

8.1 Warranty Information

The Orange PPC112 speaker cabinet comes with a **1-year limited warranty** from the date of purchase. This warranty covers manufacturing defects in materials and workmanship. It does not cover damage resulting from misuse, abuse, accidents, unauthorized modifications, or normal wear and tear. Please retain your proof of purchase for warranty claims.

8.2 Customer Support

For technical assistance, warranty service, or general inquiries, please contact your authorized Orange dealer or visit the official Orange Amplification website for support resources and contact information.