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› ESP LTD EC-407 7-String Electric Guitar User Manual

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ESP LTD EC-407 7-String Electric Guitar User Manual

Model: EC-407 | Brand: ESP GUITARS

1. INTRODUCTION

The ESP LTD EC-407 is a 7-string electric guitar designed for players seeking an extended low range. This instrument features a 3-piece maple neck, a mahogany body with a maple cap, and active EMG 81-7 / 707 pickups. It is equipped with black satin hardware and a 24 XJ fret rosewood fingerboard. This manual provides essential information for the setup, operation, maintenance, and troubleshooting of your EC-407 guitar.



2. SETUP

2.1 Initial Inspection

Upon unboxing, carefully inspect the guitar for any signs of damage. Ensure all components are securely in place. Remove any protective films.

2.2 Tuning

The EC-407 is a 7-string guitar. Standard tuning for a 7-string guitar is B-E-A-D-G-B-E (low to high). Use a reliable electronic tuner for accurate tuning. Stretch new strings gently to help them settle and hold tune better.

2.3 Strap Attachment

Attach your guitar strap securely to the strap buttons located on the body of the guitar. Ensure the strap is firmly attached before playing to prevent accidental drops.

2.4 Amplifier Connection

Connect one end of a standard 1/4-inch instrument cable to the output jack on the guitar body and the other end to the input of your amplifier. Ensure the amplifier's volume is set to a low level before turning it on.

3. OPERATING THE GUITAR

3.1 Controls Overview

The EC-407 features active EMG pickups and a standard control layout:

- **Volume Knobs:** Two volume knobs control the output level of the neck and bridge pickups independently.
- **Tone Knob:** One tone knob adjusts the treble response of both pickups.
- **3-Way Pickup Selector Switch:**
 - **Up Position:** Activates the neck pickup (rhythm).
 - **Middle Position:** Activates both neck and bridge pickups.
 - **Down Position:** Activates the bridge pickup (lead).



Figure 2: Front view highlighting the control layout of the EC-407.

3.2 Active Pickups (EMG 81-7 / 707)

Your EC-407 is equipped with active EMG pickups, which require a 9V battery for operation. Ensure a fresh battery is installed for optimal performance. A dead battery will result in no sound output. Refer to the Maintenance section for battery replacement instructions.

4. MAINTENANCE

4.1 Cleaning

- **Body:** Use a soft, lint-free cloth to wipe down the body after each use. For stubborn smudges, a guitar-specific cleaning solution can be used sparingly.
- **Fretboard:** The rosewood fretboard should be cleaned periodically. Use a dedicated fretboard cleaner and conditioner to prevent drying and cracking.
- **Hardware:** Wipe down the black satin hardware to remove fingerprints and sweat, which can cause corrosion over time.

4.2 String Replacement

Replace strings regularly to maintain optimal tone and playability. Replace one string at a time to maintain neck tension. Wind new strings neatly around the tuning pegs and stretch them gently before tuning.

4.3 Battery Replacement for Active Pickups

The active EMG pickups require a 9V battery. When the sound becomes weak or distorted, or if there is no sound, the battery likely needs replacement. The battery compartment is located on the back of the guitar body.

1. Unplug the guitar from the amplifier.
2. Carefully turn the guitar over to access the back.
3. Locate the battery compartment cover.
4. Open the compartment and remove the old 9V battery.
5. Insert a new 9V alkaline battery, ensuring correct polarity.
6. Close the battery compartment cover securely.



Figure 3: Back view of the EC-407, showing the battery compartment for active pickups.

5. TROUBLESHOOTING

5.1 No Sound Output

- Check if the guitar cable is securely plugged into both the guitar and the amplifier.
- Ensure the amplifier is turned on and its volume is up.
- Verify that the guitar's volume knobs are turned up.
- For active pickups, check the 9V battery. Replace if dead or low on power.
- Test with a different cable and amplifier if possible to isolate the issue.

5.2 Buzzing or Hum

- Ensure all cable connections are tight.
- Check for proper grounding in your electrical outlet and amplifier.
- Move away from electronic devices that may cause interference (e.g., computer monitors, fluorescent lights).
- If the buzzing is mechanical, check for loose hardware (tuning pegs, bridge components).

5.3 Tuning Instability

- Ensure strings are properly stretched when new.
- Check for worn or old strings; replace if necessary.
- Verify that tuning machine screws are snug.
- Ensure the nut slots are not binding the strings.

6. SPECIFICATIONS

Brand	ESP GUITARS
Model Name	EC-407
Color	Black Satin
Number of Strings	7
Scale Length	25.5"
Body Material	Mahogany with Maple Cap
Neck Material	3-piece Maple
Fretboard Material	Rosewood
Frets	24 XJ
Pickups	Active EMG 81-7 (Bridge) / EMG 707 (Neck)
Bridge System	Tune-O-Matic
Hardware Color	Black Satin
Item Weight	10 Pounds (approx.)
Item Dimensions	42 x 4 x 17 inches (approx.)

UPC	840248025034
Manufacturer Part Number	LEC407BLKS

7. WARRANTY INFORMATION

The ESP LTD EC-407 guitar comes with a **Limited Lifetime Warranty**. This warranty covers manufacturing defects in materials and workmanship for the original owner. Please retain your proof of purchase. For full details regarding warranty coverage, limitations, and how to make a claim, please refer to the official ESP GUITARS warranty policy available on their website or contact customer support.

8. SUPPORT

For further assistance, technical support, or inquiries not covered in this manual, please visit the official ESP GUITARS website or contact their customer service department.

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