

## ESP GUITARS EC-1000FR

# ESP LTD Deluxe EC-1000FR Electric Guitar User Manual

Model: EC-1000FR (LEC1000FRBLKS)

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## 1. INTRODUCTION

This manual provides essential information for the proper setup, operation, and maintenance of your ESP LTD Deluxe EC-1000FR Electric Guitar. Please read this manual thoroughly to ensure optimal performance and longevity of your instrument.

The EC-1000FR model features a Floyd Rose 1000SE bridge with stainless steel screws, EMG 60 and EMG 81 active pickups, Grover tuners, and 24 extra-jumbo stainless steel frets, all designed for professional musical applications.

## 2. SETUP

### 2.1 Unpacking

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

### 2.2 Initial Inspection

Before playing, check the following components:

- **Strings:** Ensure all six strings are present and properly seated in the tuning machines and bridge saddles.
- **Tuning Machines:** Verify that the Grover tuners operate smoothly.
- **Bridge:** Confirm the Floyd Rose 1000SE bridge is securely mounted and appears level.

- **Electronics:** Check that the volume and tone knobs turn freely and the pickup selector switch engages properly.

## 2.3 Tuning with Floyd Rose System

Due to the Floyd Rose tremolo system, tuning requires specific steps to maintain stability:

1. Unlock the three nut clamps at the headstock using the provided hex wrench.
2. Tune each string to standard pitch (E-A-D-G-B-e) using the Grover tuners. Tune slightly sharp initially, as clamping the nut can lower pitch.
3. Once all strings are roughly tuned, re-clamp the nut firmly.
4. Use the fine tuners on the Floyd Rose bridge for precise pitch adjustments. Turn clockwise to sharpen, counter-clockwise to flatten.

*Note:* Active EMG pickups require a 9V battery. Ensure a fresh battery is installed for optimal performance. The battery compartment is typically located on the back of the guitar.

## 3. OPERATING THE INSTRUMENT

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### 3.1 Controls Overview



*Image 1: Front view of the ESP LTD Deluxe EC-1000FR Electric Guitar. This image displays the body, neck, headstock, Floyd Rose bridge, EMG pickups, and control knobs.*

- **Volume Knobs:** Two independent volume controls, one for the neck EMG 60 pickup and one for the bridge EMG 81 pickup.
- **Tone Knob:** One master tone control for adjusting the overall tonal characteristics of the selected pickup(s).
- **Pickup Selector Switch:** A 3-way toggle switch located on the upper bout.
  - **Up Position:** Neck Pickup (EMG 60)
  - **Middle Position:** Both Neck and Bridge Pickups (EMG 60 & EMG 81)
  - **Down Position:** Bridge Pickup (EMG 81)

- **Floyd Rose 1000SE Tremolo:** Allows for pitch bending effects (dive bombs, vibrato) using the tremolo arm.

### 3.2 Playing Characteristics

The EC-1000FR is designed for high-performance playing, particularly suited for rock and metal genres. The EMG active pickups provide a powerful, clear, and articulate tone with excellent sustain. The Floyd Rose bridge offers exceptional tuning stability even with aggressive tremolo use.



*Image 2: Angled view of the ESP LTD Deluxe EC-1000FR Electric Guitar, highlighting the body contours and hardware.*

## 4. MAINTENANCE

### 4.1 Cleaning

- **Body and Neck:** Wipe down with a soft, dry, lint-free cloth after each use to remove sweat and fingerprints. For deeper cleaning, use a guitar-specific polish sparingly on the satin finish.
- **Fretboard:** Periodically clean the Macassar Ebony fretboard with a specialized fretboard cleaner and conditioner to prevent drying and cracking.
- **Hardware:** Clean the Floyd Rose bridge, tuners, and other metal components with a dry cloth. Avoid abrasive cleaners or solvents that could damage the finish.

### 4.2 String Replacement

Replacing strings on a Floyd Rose system requires careful attention to maintain bridge balance. It is recommended to replace strings one at a time, or to block the tremolo system before replacing all strings simultaneously.

1. Loosen the fine tuner for the string to be replaced.
2. Unlock the nut clamp for that string using the hex wrench.
3. Loosen the string lock screw on the bridge saddle using the hex wrench.
4. Remove the old string. For the new string, cut off the ball end and insert the plain end into the bridge saddle, clamping it securely.
5. Thread the string through the tuner post and tighten, leaving some slack for winding.
6. Rough tune the string, then re-clamp the nut and use the fine tuner for final adjustments.
7. Repeat for all strings. Stretch new strings gently to help them settle.

*Recommended Strings:* D'Addario XL120 (.009/.011/.016/.024/.032/.042) or similar gauge for optimal performance with the Floyd Rose system.

### 4.3 Battery Replacement (for Active Pickups)

The EMG 60 and EMG 81 active pickups require a 9V battery for operation. Replace the battery when the guitar's output becomes weak, distorted, or completely absent. The battery compartment is located on the back of the guitar, accessible by removing a screw-on cover.

To conserve battery life, always disconnect the guitar cable from the output jack when the instrument is not in use.





Image 3: Back view of the ESP LTD Deluxe EC-1000FR Electric Guitar, showing the control cavity and the 9V battery compartment cover.

## 5. TROUBLESHOOTING

Problem	Possible Cause	Solution
No sound or weak output	Dead 9V battery; faulty instrument cable; incorrect amplifier settings; pickup selector in wrong position.	Replace 9V battery; try a different cable; check amplifier volume and input settings; ensure pickup selector is engaged.
Poor tuning stability	Nut clamps not tightened; strings not properly stretched; bridge not balanced; worn strings.	Ensure nut clamps are secure; stretch new strings thoroughly; consult a qualified technician for bridge balancing if needed; replace old strings.
Excessive fret buzz	Low string action; uneven frets; insufficient neck relief; worn frets.	Adjust string action at the bridge saddles; consult a qualified technician for fret leveling, neck adjustment (truss rod), or fret replacement.
Tremolo system not returning to pitch	Worn knife edges or pivot posts; springs unbalanced; nut clamps too tight/loose.	Lubricate knife edges; check tremolo spring tension; ensure nut clamps are correctly tightened. Professional setup may be required.

## 6. SPECIFICATIONS

Feature	Detail
Model	LTD Deluxe EC-1000FR
Construction	Set-Thru
Scale Length	24.75 inches
Body Material	Mahogany
Neck Material	3-piece Mahogany

Feature	Detail
Fretboard Material	Macassar Ebony
Frets	24 Extra-Jumbo Stainless Steel
Nut	Locking Nut
Tuners	Grover
Bridge	Floyd Rose 1000SE
Neck Pickup	EMG 60 (Active)
Bridge Pickup	EMG 81 (Active)
Electronics	Volume/Volume/Tone/3-Way Toggle Switch
Hardware Color	Black
Finish	Black Satin
Strings	D'Addario XL120 (.009/.011/.016/.024/.032/.042)
Approx. Dimensions (L x W x H)	44 x 16 x 6 inches
Approx. Item Weight	14 pounds
Item Model Number	LEC1000FRBLKS

## 7. WARRANTY & SUPPORT

For detailed warranty information and support regarding your ESP LTD Deluxe EC-1000FR Electric Guitar, please refer to the official ESP Guitars website or contact their customer service directly. It is important to retain your proof of purchase for any warranty claims.

**Official ESP Guitars Website:** [www.espguitars.com](http://www.espguitars.com)

For technical assistance, service, or to locate an authorized dealer, please visit the support section of the official website or contact ESP Guitars customer service.