



X20 Collection

The Dreadnought - Reimagined; Third Generation

OWNER'S MANUAL





Congrats/welcome to Emerald Guitars

Congratulations on becoming the proud owner of an Emerald Guitar! Your decision to join the Emerald community is truly exciting. You've not only acquired a masterpiece of craftsmanship but also a ticket to a world of musical excellence and camaraderie. May your new guitar bring you endless joy, inspiration, and countless musical adventures. Welcome to the Emerald family!

Alister Hay





To make and inspire music

Our Vision

Emerald Guitars envisions a future where hand-crafted artistry meets cutting-edge innovation. Designed and made in Ireland, our instruments blend traditional craftsmanship with modern production techniques, redefining what's possible in music. As pioneers in carbon fiber guitar innovation, we aim to set new standards for tonal richness, durability, and sustainability.

Our vision is to inspire musicians of all levels to achieve new heights in their artistry. By fostering a global community of musicians who share our passion for excellence and creativity, we celebrate both the art and science of crafting exceptional guitars.

With every step forward, we remain dedicated to pushing boundaries, honoring tradition, and expanding the horizons of what music can be.



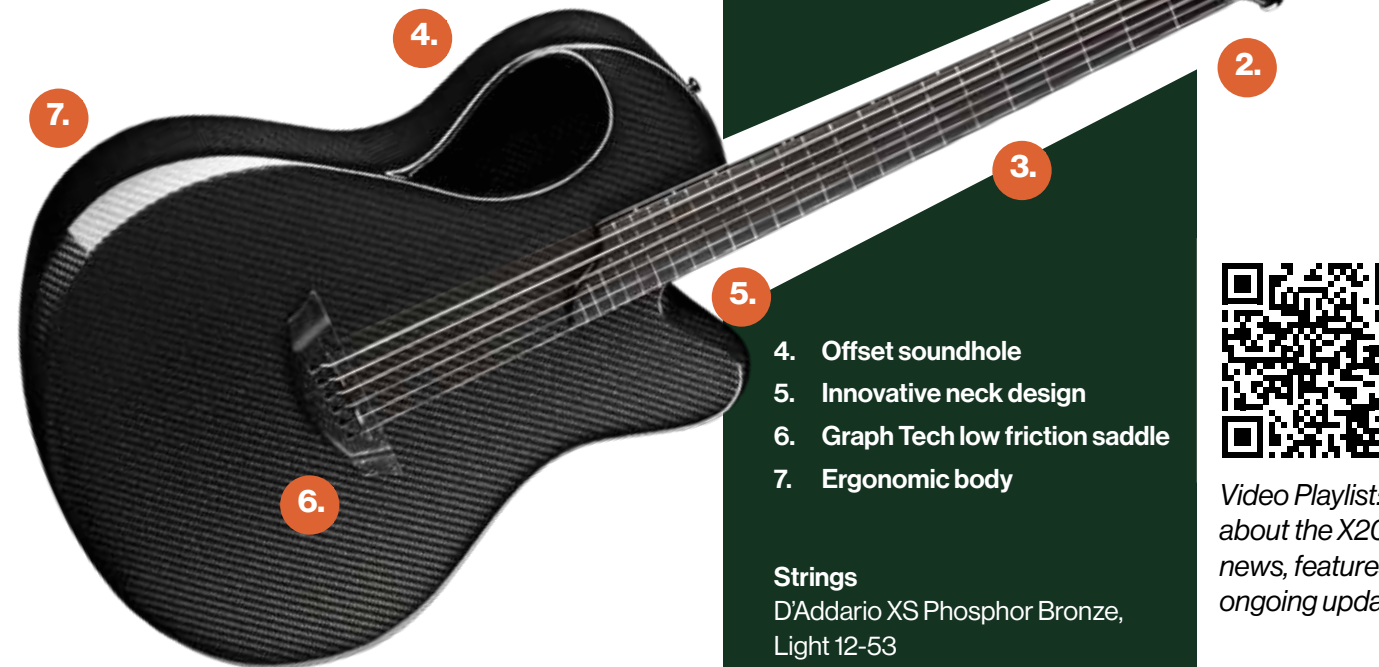
PLEK'D TO PERFECTION

Every Emerald guitar goes through the advanced PLEK process, which scans the frets and machines them with exceptional precision while taking into account fretboard radius, neck relief, action height and string gauge. This process delivers outstanding accuracy, consistency and playability.

X20

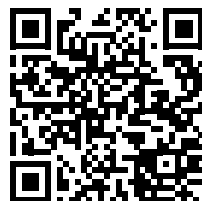
Guitar Anatomy

1. Gotoh 510 tuners 18:1 ratio
2. Graphtech low friction nut
3. Stainless steel frets



4. Offset soundhole
5. Innovative neck design
6. Graph Tech low friction saddle
7. Ergonomic body

Strings
D'Addario XS Phosphor Bronze,
Light 12-53
(12, 16, 24, 32, 42, 53)



*Video Playlist: all
about the X20;
news, features and
ongoing updates*

X20 Short-Scale

Guitar Anatomy

1. Gotoh 510 tuners 18:1 ratio
2. Graphtech low friction nut
3. Stainless steel frets



4. Offset soundhole
5. Innovative neck design
6. Graph Tech low friction saddle
7. Ergonomic body

Strings
D'Addario XS Phosphor Bronze,
Light 12-53
(12, 16, 24, 32, 42, 53)



*Video Playlist: all
about the X20
Short-Scale;
news, features and
ongoing updates*

X20 12-String

Guitar Anatomy

1. Gotoh 510 tuners 18:1 ratio
2. Graphtech low friction nut
3. Stainless steel frets

4.

1.

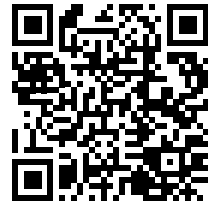
2.

3.

5.

4. Offset soundhole
5. Innovative neck design
6. Graphtech low friction saddle
7. Ergonomic body

6.



Video Playlist: all about the X20 12-String; news, features and ongoing updates

Strings

Daddario EJ37 Phosphor Bronze (12, 12, 16, 16, 24, 10, 32, 15, 42, 22, 53, 30)

X20 Nylon

Guitar Anatomy

1. Schertler tuners
2. Graphtech low friction nut
3. Stainless steel frets

1.

4.

7.

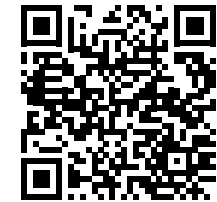
2.

3.

5.

4. Offset soundhole
5. Innovative neck design
6. Graphtech low friction saddle
7. Ergonomic body

6.

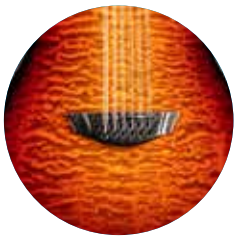


Video Playlist: all about the X20 Nylon; news, features and ongoing updates

Strings

High Tension Optima Gold No.6 (26, 28, 34, 29, 37, 43)

Your Guitar May Also Come With



Natural Wood Veneers

Your X20 may feature a natural wood veneer, combining carbon fibre durability with the unique beauty of real wood. Each veneer has its own natural grain and character.



Pickup Controls

If your X20 has a pickup system, onboard controls let you adjust your amplified sound directly from the guitar. Full instructions are on the following pages.

TECH TALK Tutorial Videos



Scan QR Code

What are Emerald Guitars made from?

Each Emerald Guitar is hand-crafted with carbon fiber; this allows us to create elegant designs that are rarely, if ever, viable with traditional wooden instruments. Our unique carbon finish is available in a range of color options to suit any player's style. For those who appreciate the classic look of wooden tops, we offer a vast selection of wood veneers to enhance the front of the guitar. These eye-catching choices transform each Emerald into a stunning piece of playable art.

Stay in Tune with Emerald Guitars!

Don't miss a beat — subscribe to our YouTube channel for the latest updates, news, and behind-the-scenes looks at everything Emerald Guitars. From exclusive product launches to artist collaborations and in-depth guitar features



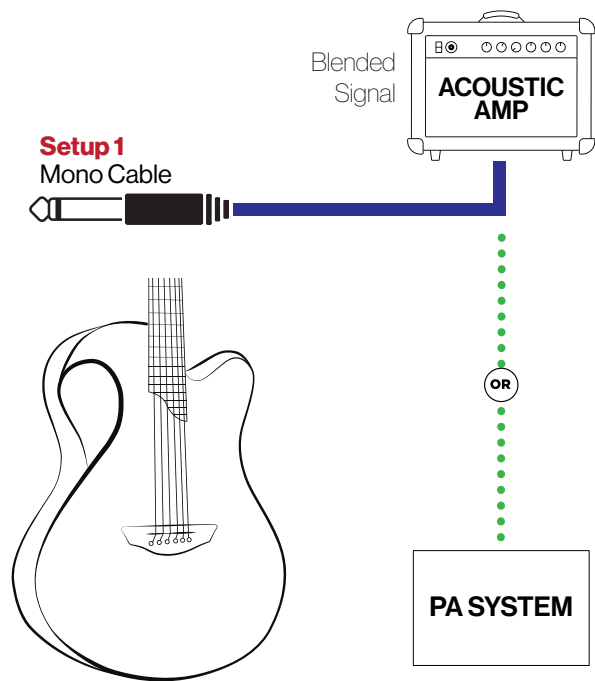
SCAN ME

X20 Third Generation

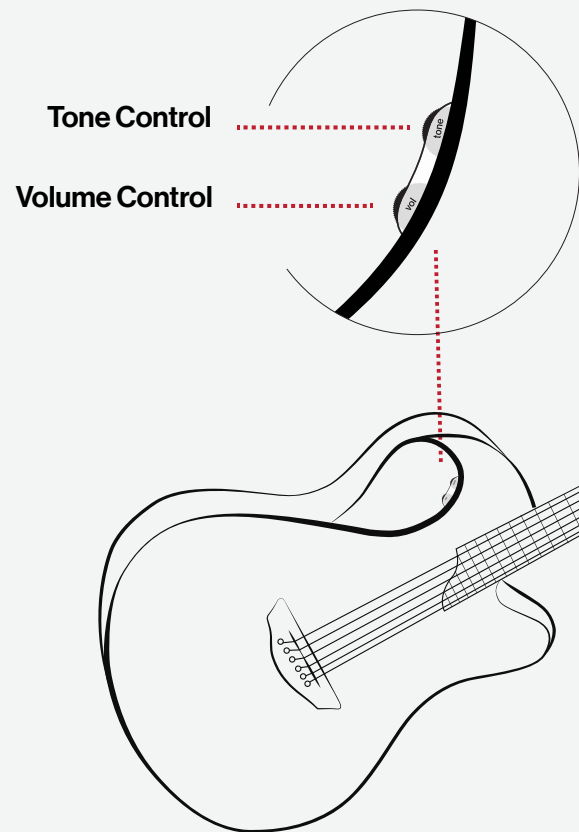


SETUP GUIDE

Use this page as a quick reference for connecting your X20. See the relevant control guide for instructions on operating your pickup system.



LR Baggs Element CONTROL GUIDE



Setup Reference: [Setup 1](#)

HiFi Duet CONTROL GUIDE

Mix Control

(Mixes between mic and pickup) Use this wheel to mix between HiFi pickups and Silo microphone. When the mix control is rolled toward the bridge, the Silo mic is carrying the majority of the guitar's voice with the HiFi pickups supporting the lower frequencies. When rolled toward the neck, you will hear the full-range HiFi pickups only. As you experiment with different positions, you will find a wide range of great-sounding and useful settings.

Volume Control

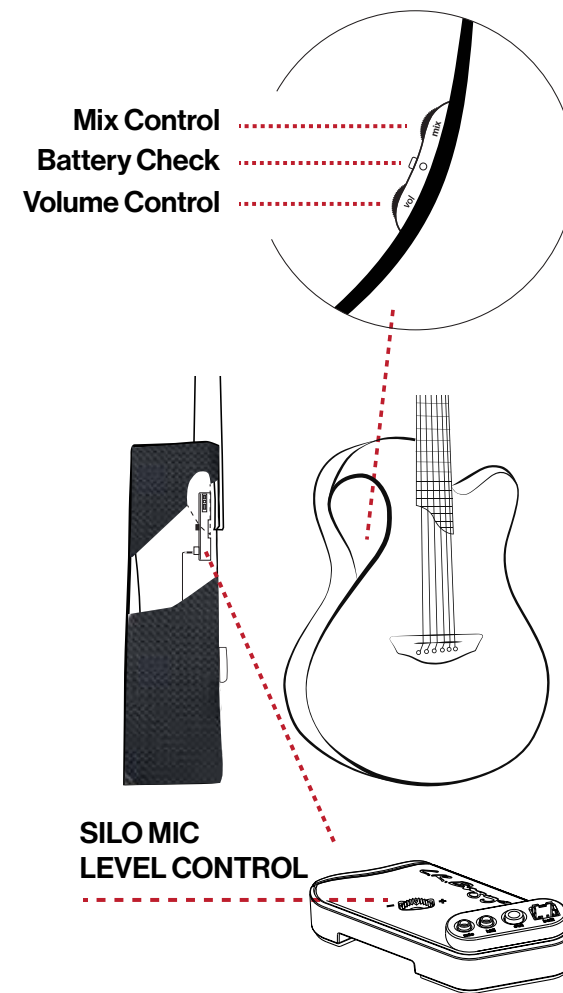
Roll this wheel toward the bridge to increase the volume or toward the neck to decrease the volume.

Silo Mic Level Control

Adjusts the level of the Silo mic relative to the level of the HiFi pickups.

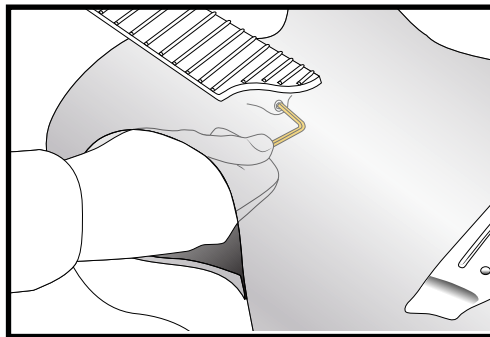
IMPORTANT: Setting this control correctly is vital to the sound of the HiFi Duet. Hidden on the underside of the preamp is a control to adjust the mic gain level. It has 10 positions indicated by detents in the control. Rolling the control away from the neck will give you more mic level and a brighter tone, while rolling it toward the bridge will give you less mic and a darker tone. To set this control, make sure that the mix control is rolled all the way toward the neck and then adjust the mic level control so that you get even tonal balance between the bass, mids, and treble frequencies. This is intended to be a "set it and forget it" control, but it can be adjusted on the fly if needed.

Setup Reference: [Setup 1](#)



TRUSS ROD

Your X20 is fitted with a dual-action truss rod adjusted using a 4 mm Allen key. The truss rod can be used to alter neck relief and compensate for changes in string tension. We recommend that truss rod adjustments are carried out by an experienced guitar technician.



Turn clockwise to reduce relief and flatten the neck — useful if the action feels high in the middle of the neck.

Turn counterclockwise to increase relief and add more forward bow

Every X20 goes through the PLEK process, which scans the fretboard and assists with final setup to achieve optimum neck relief and our standard action specifications. Any adjustment to the truss rod will alter these settings and may affect the playability of your guitar.

CUSTOMER GALLERY

Browse a selection of completed custom guitars, designed by our customers using the 3D Builder.



SCAN ME

Shipping Video Playlist

Join us in the shipping room every week as we walk you through the latest carbon fiber guitars shipping worldwide and give exclusive updates on all things Emerald Guitars



SCAN ME

CARE AND MAINTENANCE

Your Emerald Guitar is built using advanced materials and decades of guitar-making experience. With the right care, it is designed to provide a lifetime of playing enjoyment. A small amount of routine maintenance will help keep it looking, sounding and playing at its best.



Cleaning Your Emerald.

After playing, wipe down the guitar's body, neck, and strings with a clean microfiber cloth to remove sweat, fingerprints, and dust.



Dirt. For stubborn smudges or dirt, use a damp cloth with a mild, non-abrasive guitar cleaning solution specifically designed for carbon fiber instruments.

Professional Maintenance. If you notice any significant issues or changes in your guitar's performance, consult a qualified luthier or technician experienced in working with carbon fiber instruments for professional assessment and repair or contact sales@emeraldguitars.com

String Maintenance. Replace the strings regularly, as needed, to maintain a clear and vibrant tone. The frequency of string changes will depend on your playing style and the type of strings you use. Clean the strings with a soft cloth or string cleaner after playing to remove debris and sweat.

Temperature Considerations. Emerald guitars are highly resistant to changes in temperature and humidity. However, prolonged exposure to extreme heat should still be avoided, as it may affect the instrument's finish, components or overall condition.

Storage. Store your carbon fiber guitar in its case or gig bag when not in use to protect it from dust and accidents.

Polishing. Choose a high-quality automotive polish or detailer. Avoid using abrasive polishes or household cleaners, as they can damage the finish. Polishing your carbon fiber guitar helps maintain its aesthetic appeal and keeps it looking its best

Travel Considerations. When traveling with your carbon fiber guitar, use a well-padded and properly fitting case to protect it from potential damage during transport.

EMERALD RANGE

View full range of instruments at emeraldguitars.com



Stock



3D Builder

NEWS & UPDATES

Emerald Community



CONTACT US

We're here to help



...to make and inspire music



Scan QR Code Visit the Emerald Ambassador page to learn more about the programme, find an Ambassador near you or discover how to become one yourself.

emeraldguitars.com/ambassador-program/



Find An Ambassador

As an Emerald owner, you already know how distinctive these instruments are. An equally important part of Emerald is the worldwide community of players who share their passion for our guitars and help others experience them first-hand.



Warranty

To help protect your investment, Emerald Guitars provides this limited warranty. If your guitar ever develops a problem that you believe is covered under warranty, feel free to contact us via e-mail; sales@emeraldguitars.com

Emerald Guitars warrants solely to the original retail purchaser of this Emerald musical instrument that the instrument purchased shall be free from defects in materials and workmanship under normal use for a period of three years from the date of purchase, or until the ownership of the instrument is transferred to another.

This Limited Warranty does not cover:

Normal wear and tear (i.e., worn machine heads, worn plating, string replacement, scratches or damages to or discoloration of the instrument finish for any reason).
The subjective issue of tonal characteristics.
Any instrument that has been damaged due to misuse, negligence, accident, or improper operation.
Any instrument upon which unauthorised repair or service has been performed.

Any factory-installed electronics after a period of one year following the original date of purchase.

Emerald does not warrant the playability of an instrument whose 'action' is lower than the factory standard or whose string gauge is different than the factory standard.

Limitation on Obligations

The obligations of Emerald hereunder are limited to repair or replacement of parts of the instrument found to be defective under this Warranty. In no event shall Emerald be liable for any indirect, incidental or consequential damages, including but not limited to time, wages or lost profits, of any nature or kind or for damages to or loss of property.

THIS WARRANTY IS THE SOLE WARRANTY OF R & J HAY LIMITED WITH REGARD TO EMERALD INSTRUMENTS, AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING ANY IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR PURPOSE.

No Other Warranties

The Warranty set forth herein constitutes the entire warranty and representation of Emerald with regard to its instruments. This Warranty shall be controlling over any conflicting terms and conditions of any purchase orders, contracts or invoices that may be executed in connection with the purchase of the Emerald musical instrument. No representation or warranty made by any Emerald salesperson, representative or employee shall be binding upon Emerald other than as set forth herein.

Claim Procedures

Claims for warranty performance and service shall be made by sending the instrument, shipping and insurance prepaid by the purchaser, to the Emerald factory accompanied by:

Evidence confirming the original purchase by purchaser (such as a copy of the sales invoice, receipt or the like).

A brief description of the nature of the asserted defect.

The name, address and phone number of the original purchaser to whom the instrument is to be returned

Emerald Guitars shall review the description of the asserted defect, examine the instrument, and make service, repairs and replacements as appropriate under this Warranty. Upon completion of the service, the instrument shall be returned by Emerald to the original purchaser, return shipping will be covered by Emerald.

In the event it is determined that the asserted defect is not covered by or is excluded from this Warranty, the instrument shall be returned without repairs or can be repaired for an agreed fee. Shipping to be paid by the purchaser.

Warning

Although Emerald Guitars are incredibly strong and stable, neglect and improper use can cause considerable damage. It is advised that the same care be given to this instrument as any other fine guitar.

So that's the official warranty but if you have any problems please contact us and we will do everything in our power to rectify your situation by the best means possible.





Stay connected with everything happening at Emerald Guitars by
visiting our website: emeraldguitars.com