



WEBER



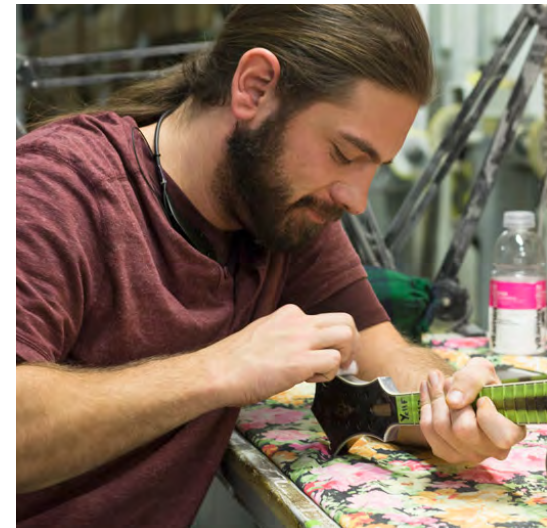
FINE ACOUSTIC INSTRUMENTS

WEBER: AMERICA'S TRADITIONAL MANDOLIN COMPANY

CRAFTED IN BEND, OREGON

The evolution of Weber Mandolins, from Flatiron to Gibson to Weber... and now, the new Weber is nestled in the high desert mountain town of Bend, Oregon. We have significantly advanced the craft, design, sound, feel, tone and finish of every traditional instrument. The new Weber mandolins, mandolas, octave mandolins, and mandocellos may be the finest sounding and playing traditional 8-string (4 course) instruments crafted in America today.

It starts in the natural forest where the figured maple, Adirondack and Sitka spruce, Honduran mahogany, and western red cedar thrive for centuries... Weber uses no wood from clear-cut trees – only trees individually harvested to minimize the impact on the forest neighborhood. As woodworkers, we appreciate the density and deflection variability in every piece of wood and build accordingly.



THE NEW WEBER MANDOLIN

CRAFTED IN BEND, OREGON



The Weber team of craftsmen have left no stone unturned in finding ways to enhance the sound, look and feel of our 2018 selection of Weber Fine Acoustic Instruments.

Weber Luthier Ryan Fish invested this last year studying mandolin sound. From Lloyd Loar to current builders, he has compared sound and feel by deflection and profile. Perfecting hand voicing with the assistance of analytical tools, Ryan and our Weber Team of craftsmen have been able to dramatically advance the sound, chop, tone and volume of every Weber mandolin model.

At the same time Scott Wegner was fine-tuning our CNC operations to achieve more accurate and up-to-date carved tops and backs, neck profiles and other precision parts.



Marty Lewis accepted the challenge of designing a dovetail neck joint – the very first in a Weber. Clean and snug, the new dovetail is now used in all Yellowstone and all Heritage mandolins and other 8-string instruments. You will appreciate the alive feeling of this advancement.

Mike Fischer loves a challenge. From hand carving and binding to the complex purfling details found on several of our models, he applies the utmost attention and skill to each task. The intricate scroll and miter joints have taken the detail work on 2018 Weber's to a whole new level.

Dalton Bell was not content with our finish quality. He researched different material sources and processes and has designed a completely new approach that brings out the character of the wood grain while deepening the beauty of our new Amber, Faded Amber and Burnt Amber finishes.

Erik Has-Ellison, the newest member of the team, completes the assembly and set up of every Weber. His painstaking attention to detail insures that every Weber is set up to perfection, ready to be played.

WEBER'S FOUR TRADITIONAL 8-STRINGED INSTRUMENTS

CRAFTED IN BEND, OREGON

Of course, the **MANDOLIN** is by far the most popular. It has a scale length of 14 inches, a body width of 10 1/8th inches and an overall length of 27 1/4th inches. The four courses are typically tuned to G, D, A, and E. Bill Monroe, known as the “Founder of Bluegrass” pioneered the chop style of play, making the mandolin a signature instrument in bands throughout Kentucky during the early 20th Century. The mandolins popularity has spread to many music genres...as we like to say, “From Bluegrass to Bach!”

The **MANDOLA** is to the Mandolin what the viola is to the violin. It is larger with a 17-inch scale length, a body width of 11 1/8th inches and an overall length of 31 3/4th inches. It is tuned a fifth lower than the mandolin, typically to C, G, D, and A.

The **OCTAVE MANDOLIN** is just what the name implies, tuned a full octave below the mandolin, also tuned to G, D, A, and E. It typically has a 20-inch scale length, although Weber is also able to build a 22- inch scale length in our Custom Shop. The body width is 12 1/4th inches and overall body length measures 37 1/2 inches.

The **MANDOCELLO** is the largest instrument in the Weber mandolin family. Like the cello is to the violin, so is the mandocello to the mandolin. It is the baritone/bass instrument in the ensemble. A full octave below the mandola, it is typically tuned to C, G, D, and A. Its scale length is 24 3/4 inches, its body width is 14 1/4th inches and its overall length is 41 1/8th inches.



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DEFLECTION TESTING

Stiffness of wood is very important in determining the sound quality and long-term stability of an instrument. Wood from the same species or even the same tree may have different properties. Deflection testing is a mechanical tuning process to measure the stiffness properties of every instrument top. The soundboard can be tuned by adjusting the stiffness of the wood. Deflection tuning gives us the optimal relationship between the strings load and the top's resistance to the load.

OUR PROCESS

We test and record every instrument at two stages. The first measurement is taken when the top has been glued to the rim structure. The second measurement is taken before the final 400 grit of sanding, the final step before the instrument is sent to finish.

The instrument is aligned in the deflection jig with the bridge feet positioned at the location of final bridge placement. The two bridge feet are attached to dial indicators to measure deflection independently on the bass and treble side. A scale is attached to the lever which applies 25lbs of pressure on the bridge feet to simulate string tension on the top. Dial indicators measure the thousandths of an inch a top deflects under the simulated string load. The top is carefully sanded to achieve tight tolerances. Executing precise measurements on the bass and treble sides to within a few thousandths of an inch can make a significant difference in achieving the proper stiffness of the top. This gives us consistent, repeatable results in the tone quality of every instrument.



THE RESEARCH

Weber top and back graduations are uniquely designed to create a specific sound. To identify the target goal for Weber instruments, we recorded a significant amount of data to determine the ideal measurements for the best tone. Our research indicates this process yields very consistent results.

THE FERN MANDOLIN

TRADITION AT ITS BEST | F14-F

Top: 3A Adirondack Spruce

Back: Highly Flamed
Sugar Maple

Neck: Highly Flamed Sugar
Maple

Neck Joint: Dovetail

Fretboard: Ebony

Nut Width: 1 1/8"

Scale Length: 14"

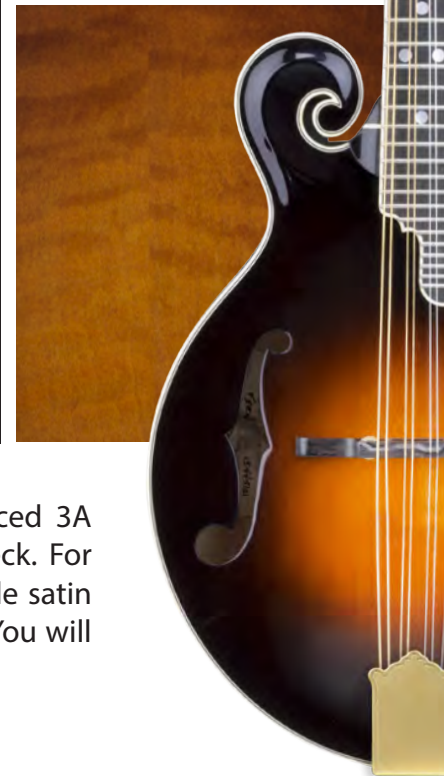
Finish: Gloss Nitrocellulose
Lacquer, Fern Burst

Tuners: Waverly F-style Satin
Gold with Pearl Knobs

Bracing: Tone Bars

Frets: 27

Case: Custom Ameritage



The Fern – Weber's most traditional mandolin is crafted with a hand-voiced 3A Adirondack spruce top and highly flamed sugar maple back, sides and neck. For 2018, upgrades include a newly designed dovetail neck joint, Waverly F-style satin gold tuners, James tailpiece, and an ebony pickguard bound with purfling. You will immediately feel the unparalleled chop, sustain and volume.

Price: \$8,999

THE VINTAGE MANDOLIN

EARLY 20TH CENTURY DESIGN AND SOUND | F14-O



The Vintage is Weber's traditional early century model with an oval soundhole and classic rope purfling ivoroid binding on the rosette. The hand-voiced 3A Adirondack spruce top and highly flamed sugar maple back, sides and neck are paired to work closely with the modified X-bracing for a loud sound and defined chop. It has been upgraded with a new dovetail neck joint and ebony pickguard bound with purfling.

Price: \$6,999

Top: 3A Adirondack Spruce

Back: Highly Flamed Sugar Maple

Neck: Highly Flamed Sugar Maple

Neck Joint: Dovetail

Fretboard: Ebony

Nut Width: 1 1/8"

Scale Length: 14"

Finish: Gloss Nitrocellulose Lacquer, Vintage Red Burst

Tuners: Nickel with Pearl Buttons

Bracing: X-Bracing

Frets: 27

Case: Custom Ameritage

THE DIAMONDBACK MANDOLIN

TRADITIONAL DESIGN WITH A SPEED NECK | F14-F

Top: 3A Adirondack Spruce

Back: Highly Flamed Sugar Maple

Neck: Highly Flamed Sugar Maple

Neck Joint: Dovetail

Fretboard: Ebony

Nut Width: 1 1/8"

Scale Length: 14"

Finish: Satin Nitrocellulose Lacquer, Fern Burst

Tuners: Gold with Pearl Buttons

Bracing: Tone Bars

Frets: 21

Case: Custom Ameritage

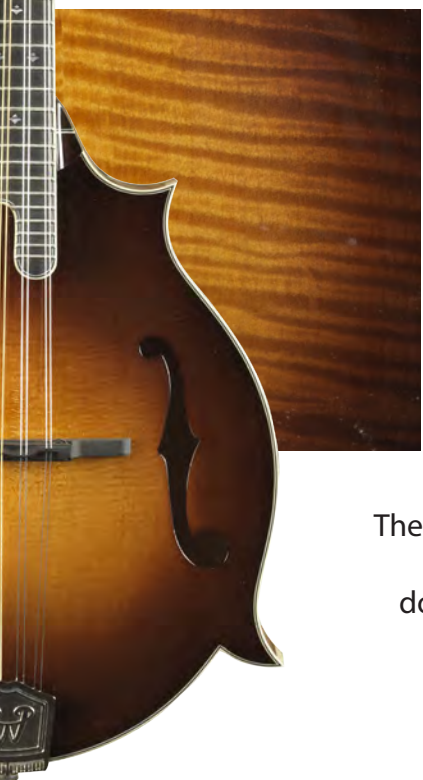


With its thin satin finish and speed neck, the Diamondback comes alive as you play it. Now with a dovetail neck joint and hand-voiced tops, you will be amazed at the sound and volume.

Price: \$5,999

YELLOWSTONE MANDOLINS

EXQUISITE IN LOOK AND SOUND | F14-F | F14-O | A14-F | A14-O



The Yellowstone has earned a complete face lift with a high gloss Burnt Amber burst and ivoroid top and back binding with black/ivoroid purfling. The new dovetail neck joint and the hand-voicing of the 3A Sitka spruce tops give the Yellowstone new chops!

Price: F-Models \$4,999, A-Models \$3,999

Top: 3A Sitka Spruce

Back: Highly Flamed Sugar Maple

Neck: Highly Flamed Sugar Maple

Neck Joint: Dovetail

Fretboard: Ebony

Nut Width: 1 1/8"

Scale Length: 14"

Finish: Gloss Nitrocellulose Lacquer, Burnt Amber Burst

Tuners: Nickel with Pearl Buttons

Bracing: Tone Bars with F soundholes; X-Bracing with oval soundholes

Frets: 24

Case: Custom Ameritage

YELLOWSTONE MANDOLA

A DEEPER AND BIGGER SOUND | F17-F

Top: 3A Sitka Spruce

Back: Highly Flamed Sugar Maple

Neck: Highly Flamed Sugar Maple

Neck Joint: Dovetail

Fretboard: Ebony

Nut Width: 1 1/4"

Scale Length: 17"

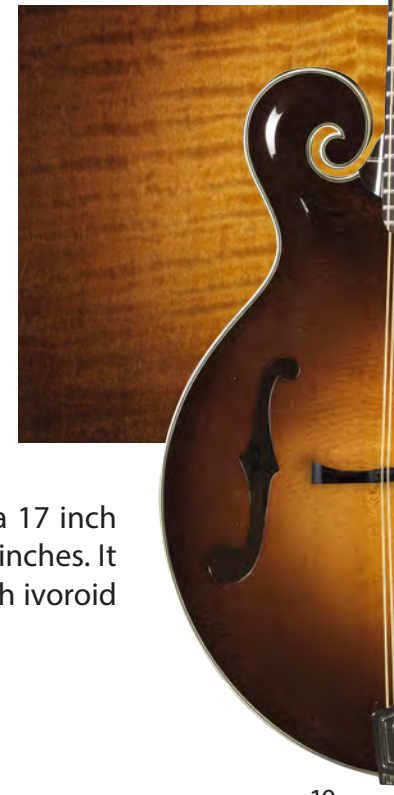
Finish: Gloss Nitrocellulose Lacquer, Burnt Amber Burst

Tuners: Nickel with Pearl Buttons

Bracing: Tone Bars

Frets: 24

Case: Custom Ameritage



The Yellowstone Mandola is tuned a fifth lower than the mandolin. It has a 17 inch scale length, an 11 1/8th inch body width and an overall length of 31 3/4th inches. It is crafted with our new dovetail neck joint and gloss Burnt Amber finish with ivoroid top and back binding with black/ivroid purfling.

Price: \$5,599

YELLOWSTONE OCTAVE MANDOLIN

A MELLOW, WARM SOUNDING 8-STRING | F20-F



Top: 3A Sitka Spruce

Back: Highly Flamed Sugar Maple

Neck: Highly Flamed Sugar Maple

Neck Joint: Dovetail

Fretboard: Ebony

Nut Width: 1 3/8"

Scale Length: 20"

Finish: Gloss Nitrocellulose Lacquer, Burnt Amber Burst

Tuners: Nickel with Pearl Buttons

Bracing: Tone Bars

Frets: 27

Case: Custom Ameritage

The Yellowstone Octave Mandolin is tuned a full octave below the mandolin. It has a 20 inch scale length with a body width of 12 1/4 inches and overall body length of 37 1/2 inches. It is crafted with our new dovetail neck joint and gloss Burnt Amber finish with ivoroid top and back binding with black/ivoroid purfling.

Price: \$5,999



YELLOWSTONE MANDOCELLO

ROUNDS OUT THE SUITE OF 8-STRING INSTRUMENTS | F24-F

Top: 3A Sitka Spruce

Back: Highly Flamed Sugar Maple

Neck: Highly Flamed Sugar Maple

Neck Joint: Dovetail

Fretboard: Ebony

Nut Width: 1 5/8"

Scale Length: 24"

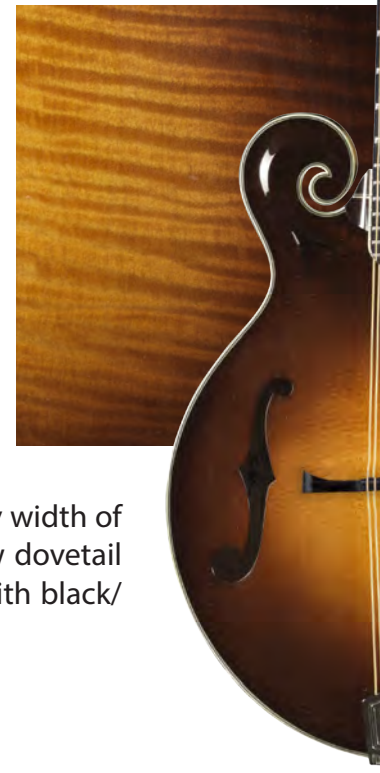
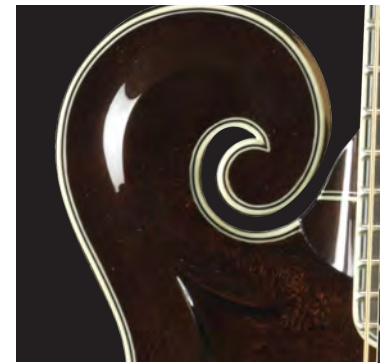
Finish: Gloss Nitrocellulose Lacquer, Burnt Amber Burst

Tuners: Nickel with Pearl Buttons

Bracing: Tone Bars

Frets: 27

Case: Custom Ameritage



Tuned an octave below the mandola, it has a scale length of 24 inches, a body width of 14 1/4 inches and an overall length of 41 1/8 inches. It is crafted with our new dovetail neck joint and gloss Burnt Amber finish with ivoroid top and back binding with black/ivoroid purfling.

Price: \$6,499

BITTERROOT MANDOLINS

TRADITIONAL THIN SATIN FINISH WITH TOP IVOROID BIND | F14-F | F14-O | A14-F | A14-O



The Bitterroots have a new thinner Faded Amber finish. With our advanced deflection monitoring and Hand-Voicing the Bitterroots have more chop and volume.

Price: F-Style \$3,999, A-Style \$2,999

Top: 2A Sitka Spruce

Back: Flamed Maple

Neck: Flamed Maple

Neck Joint: Mortise and Tenon

Fretboard: Ebony

Nut Width: 1 1/8"

Scale Length: 14"

Finish: Satin Nitrocellulose Lacquer, Faded Amber Burst

Tuners: Nickel with Pearl Buttons

Bracing: Tone Bars with F soundholes; X-Bracing with oval soundholes

Frets: 24

Case: Custom Ameritage

BITTERROOT OCTAVE MANDOLINS

TUNED A FULL OCTAVE BELOW THE MANDOLIN | F20-F | F20-O | A20-F | A20-O

Top: 2A Sitka Spruce

Back: Genuine Honduran Mahogany

Neck: Mahogany

Neck Joint: Mortise and Tenon

Fretboard: Ebony

Nut Width: 1 3/8"

Scale Length: 20"

Finish: Satin Nitrocellulose Lacquer, Faded Amber Burst

Tuners: Nickel with Pearl Buttons

Bracing: Tone Bars

Frets: 23

Case: Custom Ameritage



The Bitterroot Octave Mandolin are popular in a variety of genres. With its new thin satin Faded Amber finish and deflection Hand-Voicing they sound better than ever.

Price: F-Style \$4,999, A-Style \$3,999

Note: Ivroid bound fretboard not pictured.

GALLATIN MANDOLINS

WEBER'S MOST NATURAL AFFORDABLE MANDOLINS | F14-F | F14-O | A14-F | A14-O



Top: 2A Sitka Spruce

Back: Maple

Neck: Maple

Neck Joint: Mortise and Tenon

Fretboard: Ebony

Nut Width: 1 1/8"

Scale Length: 14"

Finish: Satin Nitrocellulose Lacquer, Amber Burst

Tuners: Nickel with Pearl Buttons

Bracing: Tone Bars with F soundholes; X-Bracing with oval soundholes

Frets: 24

Case: Custom Ameritage

Get all the chop, tone and volume you expect from a Weber without the frills. The new all satin Amber finish has relaunched the traditional look and sound.

Price: F-Style \$2,999, A-Style \$1,999

THE WEBER CUSTOM SHOP

CRAFTED IN BEND, OREGON



Since its beginning, Weber has been able to customize its Mandolins, Mandolas, Octave Mandolins and Mandocellos. If you would like a two or three points body shape, different woods, a custom color, other binding material, tailpiece, tuners, or inlay, please contact your Weber Specialty Retailer or Weber directly at sales@webermandolins.com.





WEBER



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