



# Telecaster® Options

## J.W. Bosworth Custom Guitars

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### Base Hand-Crafted Telecaster®:

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**Includes:** Hand-picked **Southern swamp ash** laminated body, vintage maple neck with choice of walnut, rosewood, or maple fretboard. Your choice of body and pick guard color. Many other body woods available. Kluson style vintage tuners (reproduced by Gotoh) are standard, other tuner options are available on request. Genuine Fender parts (knobs, bridge, switches, pots, pickguards, pickups, etc.). Modern Wilkinson or Gotoh bridge is also available. Vintage bridge has three brass, un-plated, un-grooved saddles,

and several other saddle configurations are available. Fender Mod Shop Samarium Cobalt Noiseless (SCN) pickups, other pickup choices (i.e. Fender original vintage non-hum cancelling, Seymour Duncan, Rio Grande, etc.) on request and at additional cost. Pickups and controls are hand-wired and soldered. Body cavities are hand-lined with grounded copper foil to help reduce any 60-cycle hum from vintage pickups or interference with other pickups. Hard side case with plush liner included. A genuine Fender case for \$100 additional.

Great alternative to an American Fender "Vintage Telecaster" that sells for well over \$1,800. Looks and plays like a Fender, but sports the J.W. Bosworth signature logo on the headstock - your guarantee of quality and incredible attention to detail. Body and neck are based on Fender's original Tele blueprints. Dimensions will be similar but not exact to avoid patent infringement. And I can experiment...



Price is **\$1650 postpaid to the continental USA (excludes APO/FPO)**.

### Necks:

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Prices vary for the necks depending on the choice of fretboard and neck wood as well as any custom inlay or binding.

### Vintage Construction

For those desiring a close replica of the early vintage Fender necks, this is it. These necks duplicate both the dimensions and construction methods used in the mid to late 50's. These

are included in the base price of the guitar maple neck with a walnut skunk stripe maple neck with choice of walnut, rosewood, or maple fretboard.

### TRUSS ROD DESIGN:

The truss rod in these vintage necks is the same as found in the vintage Fender necks, a single rod anchored at either end, curving over an arch within the neck. This design has functioned successfully in millions of necks though does usually require seasonal adjustment for optimum action. In the all maple necks you will find the expected skunk stripe. In necks with rosewood fingerboards the truss rod is installed under the fingerboard so there is no skunk stripe.



### TRUSS ROD ADJUSTMENT:

The only truss rod access is through the heel of the neck. Yes, it's necessary to loosen the neck mounting screws to gain access to this adjustment.

### FINGERBOARD RADIUS:

The vintage radius is 7 1/4", very rounded. This is a very comfortable radius for rhythm playing as well as chording though it is pretty limiting for any string bending. There are 21 frets.

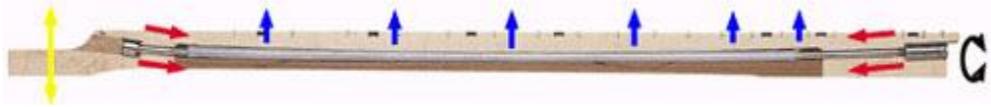
## Vintage *Modern* Construction

The construction of these necks is based upon the vintage Fender necks but with a few refinements and improvements for convenience. The walnut skunk stripe down the back side of the neck is a standard feature. Maple necks are made of one piece of wood, those with alternate fingerboard woods are made of two pieces. The tone of these necks is very vintage and warm. These are the best necks of their type available. **Add \$150** for this style neck plus the cost of any premium wood choices. The standard Vintage Modern neck is maple with a maple fretboard.

Here is an overview of the design elements that set these necks apart from all others:

### TRUSS ROD DESIGN:

The truss rod in vintage modern necks is the same as that found in the vintage Fender necks, a single rod anchored at either end, curving over an arch in the neck. This design has functioned successfully in millions of necks though does usually require seasonal adjustment for optimum action.



### TRUSS ADJUSTMENT:

Beginning in 2002 the truss rod adjustment was moved by Fender from the heel to the head of the neck where it is accessed through a walnut plug with an Allen wrench, for a very functional and clean looking appearance.

### COMPOUND RADIUS PLAYING SURFACE:

The fretboard has a conical playing surface. This gives the lower registers of the fingerboard with a rounder feel, more comfortable for chording and rhythm playing but at the same time flattens the high registers for easier string bending. The compound radius accomplishes this with a continuously flattening radius beginning with a 10 inch radius at the nut to a 16 inch radius at the 22nd fret. This compound radius isn't something that feels readily apparent to the playing hand in any noticeable way other than the fact that it is very comfortable to play on. With my professional set-up, these necks play exceptionally well.

### 22 FRETS:

While this feature isn't much thought about these days, it wasn't that many years ago when all Fender necks featured only 21 frets.

## "Pro" Construction

Pro construction necks are the *premium* neck. It features a number of advancements including a double truss rod design, compound radius fingerboard, convenient truss rod adjustment and the widest range of custom options to be found. The sustain of these necks is excellent, with an even and balanced tonal range sure to please your ears. In terms of quality, convenience and long term serviceability there is no finer neck available. **Add \$250** for this style neck plus the cost of any premium wood choices. The standard Pro neck is maple with a maple fretboard.

Here is an overview of the design elements that set these necks apart from all others:

### TRUSS ROD DESIGN:

The truss rod used in these necks is a double expanding truss rod. It is double in that there is two lengths of rod in the neck that act together to move the neck. The Pro rod is not anchored at either end, it is free floating within the neck and all the compression forces are exerted on the metal rod, not the neck. Only the backward motion of the rod is transmitted into the neck to counteract the pull of the guitar strings. The seasonal adjustments needed by most vintage rod necks are minimized with the Pro design.

## The Double Expanding Truss Rod

The double rod is installed directly under the fretboard in a straight trench approximately 3/8" deep. A long adjusting nut is used to focus the truss action away from the unmovable heel joint.



When flexed in the neck, resulting pressures are shown above. The blue arrows show the two rod ends exerting high downward forces while the middle pushes up uniformly. The resulting neck movement shown with the yellow arrow determines string action height and corresponding relief.

The force exerted by the tail end of the double rod is considerable. There must be a minimum 1/8" of wood below the rod end to prevent wood failure in this area. This becomes a concern only when thinning a neck beyond factory dimensions.

### Benefits of the double expanding truss rod

- Extremely stable, no seasonal adjustments are necessary
- Increased mass = longer sustain, cleaner and clearer notes
- No end to end wood compression to eventually distort the neck
- Top adjusting on 13° angled necks

### Drawbacks

- Double the weight of vintage rod
- More torque required for adjustment
- More expensive to make

### Bodies:

**Vintage '52 Style (included in base price – Swamp Ash – additional for other wood types):**

This is the standard configuration for the Tele Body. Top routed for 2 pickups, standard Tele bridge mounting holes with string through body holes, and a 7/8" side jack hole.



### Thinline (\$150 additional):

The *Thinline* Body has the same perimeter shape as the standard Tele body; however, it is made with 3 large tone chambers. The resulting tone is fatter and woody with good brightness and pop. The weight is about 1/3rd less than the solid body.

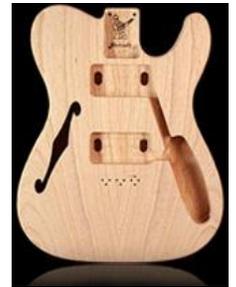
I construct the Thinline a bit differently from the Fender originals. The originals had the cavities routed from the back and therefore it had to be covered from the back. I rout from the front where I can incorporate either a plain or fancy bookmatched top. The veneer thickness is ~1/4".



### '72 Thinline (\$150 additional):

Routed to accommodate both the big Fender and Gibson® humbucker in the bridge and neck positions.

The original Thinline body was introduced in 1969 and was outfitted with traditional Tele pickups. In 1972 Fender introduced a new version of the Thinline and incorporated the huge chrome Fender humbucking pickups and a Strat flatmount bridge. These bodies also came with the newly introduced 3-bolt heel joint. Other than the fact that the body comes standard with a 4 bolt heel, mine is a very close copy of the original. If you want the 3-bolt heel, I can offer this as well for **\$45.00 extra**. The Thinline body is hollow on the control side whereas the '72 version is solid on the control side. If you're looking for the lighter of the two, select the original Thinline version. Bridge holes are drilled for a Strat flatmount. Should you desire, I can rout this body for a tremolo.



### Tele Deluxe (\$150 additional):

Routed to accommodate both the big Fender and Gibson® humbuckers in the bridge and neck positions. Bridge holes are drilled for a Strat flatmount.

**NOTE:** The Tele Deluxe originally came with a Strat neck hence the Strat neck pocket on the replacement body I offer. The Tele neck pocket option is available on this body for only **\$45**.

The original Tele Deluxe also came with a *tummy* cut contour as standard. My Tele Deluxe does **NOT** have a tummy cut contour standard but you can specify that to be done for only **\$45** additional.



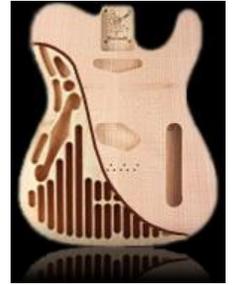
### Tele Custom (\$150 additional):

Routed to accommodate both the big Fender humbucker and the Gibson® humbucker in the neck position and the standard Tele bridge pickup.



## Chambered (\$200 additional):

These uniquely engineered cavities allow the body to remain very stiff while affording a minimum of 25% weight reduction. These bodies are very resonant; they even feel alive when plucked. Sustain is improved over their solid body counterparts and feedback isn't an issue. Tone wise: Alder, Ash, and Mahogany each maintain their traditional tone but it's more open, full, fat, and chunky. Choose the body core material (Alder, Ash, or Mahogany) for your "wood tone" preference. Choose the face or veneer top wood for the look you prefer. Whether you're simply looking for less weight or exciting fat tone, you won't be disappointed. Photo shows cutaway to reveal the interior.



## Pickups:

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### Fender Vintage, Fender "Mod Shop" Samarium Cobalt Noiseless:

See the [Fender Products pickup list](#) for all of Fender's quality pickups. Price varies on the model chosen.

### Seymour Duncan:

See Seymour Duncan's [website](#) for Telecaster pickups. These are typically \$50 to \$90 additional from the standard Fender vintage pickups depending on the model chosen.

### Rio Grande:

See the Rio Grande [website](#). These are typically \$60 to \$100 additional from the standard Fender vintage pickups depending on the model chosen.

## Bridges:

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Standard **Fender**, **Wilkinson**, or **Gotoh** brands with a variety of saddle configurations. Fender and Wilkinson bridges are chrome only. Price differential for the Wilkinson bridge is **\$50 extra**. Gotoh is **\$75** additional and comes in chrome, gold, or black.

