



## **Tornado Bass**

### **Specifications**

**Scale - 31.640" (9" fingerboard radius)**

**Neck Width - 1 5/8" at nut, 2 1/4" at 24th fret**

**Fingerboard - Pau Ferro or Maple (jumbo frets)**

**Neck - Eastern Rock Maple**

**Truss-rod - Fury adjustable linear type**

**Tuning Machines - Hipshot "Ultralite"**

**Body - Eastern soft Maple, hard Maple center (1 1/2" thick)**

**Finish - Nitrocellulose & acrylic lacquer**

**Hardware finish - Chrome plate (gold optional)**

### **Options**

- Pau Ferro or Maple fingerboard
- Left hand model
- Gold plated hardware (Extra Cost)
- Matching color headstock (Extra Cost)

# Tornado

*Noticeably Finer Musical Instruments*



The Tornado is the newest model in the Fury line. It has all the features of its predecessor, the Anthem bass, with a number of refinements such as the deeper bottom body cutaway, newly designed ZP-9B™ bridge and ZP-6B™ neck pickups gives this bass even greater tonal quality and low note definition. A triple range coil-split switch was added to boost the choice of pickup ranges from three to nine. This switch selects full humbucking in the middle, modified humbucker to one side, and true single coil on the opposite side position. Tone range and dynamics are nothing less than incredible with this simple switching system. The pickups produce high output power with superb sensitivity to variables of attack. The extra high-mass bridge produces powerful tonal timber with near endless sustain. Circuitry consists of a master volume, a master tone, and a three way toggle switch for pickup selection. The Tornado is definitely an instrument for the serious bass player.

## Fury ZP™ Pickups

The patented design of Fury ZP™ Pickups results in several enhanced performance benefits:

- increased sustain;
- smooth, balanced response;
- sensitive attack dynamics;
- controlled feedback at high volume levels;
- no microphonics emanating from within the pickup structure.

The unique design of the Fury ZP™ Pickup is based on innovative research and the application of two advanced engineering principles. First is the principle that by increasing the strings' freedom of motion, the pickup is fed an expanded signal. And second, the principle that isolating the pickup structure from transient resonance permits it to sense only the motion of the strings, so only pure signals are amplified.

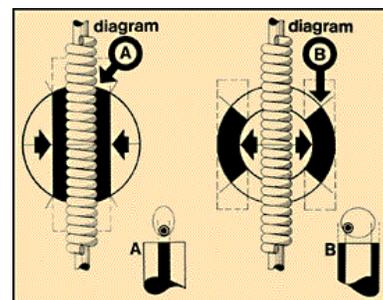
### Principle One: Increased String Motion Equals Expanded Signal.

Diagrams A and B illustrate the physical difference between a conventional solid pole piece (Diagram A) and the Fury ZP™ tubular pole piece (Diagram B).

Diagram A shows a top view of a conventional solid pole piece. The black area represents the most intense zone of magnetic force created by it. The arrows pointing inward depict the negative or restrictive force exerted on the string's motion. The smaller inset diagram illustrates how string movement is limited by excessive magnetic force.

The result? This force shortens the string's duration of motion and limits the loop width, causing loss of sustain and output power.

In Diagram B, you will see how the ZP™ Pickup's tubular pole piece emits force only at its outer rim, thereby eliminating magnetic force in the center of the pole piece. This allows the guitar string to span a center zone of zero force, which imposes no resistance to string motion.

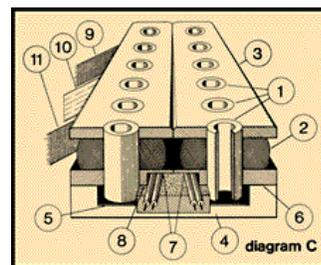


The black areas in Diagram B show that the zone with the greatest magnetic force is in the rim of the pole piece. Notice how the force is shifted to the side, away from the string's path of motion. Outward arrows indicate the absence of resistant force. The smaller, inset diagram illustrates the string's freedom to develop its optimum loop, lengthening the duration of its motion for greatly increased sustain and output power.

### Principle Two: Bonded Construction Produces Accurate Tonality.

A pickup responds to both external and internal sources of motion and vibration, which can be problematic at high volume levels. ZP™ Pickups are constructed of dense materials and their component parts are bonded to form a unified mass. Therefore, no single component can vibrate to cause feedback or microphonics.

Diagram C offers an internal view of the ZP™ Pickup, revealing its tubular pole pieces and special construction details that eliminate unwanted feedback and microphonics.



1. ZP tubular pole pieces are placed in close proximity to the coil's core windings for increased pickup response.
2. Tightly wound coils are chemically solidified throughout for total suppression of microphonics.
3. Extra-hard acrylic bobbins are resistant to surface wear and are immune to microphonics.
4. The dense acrylic bottom pan is unresponsive to resonance that can trigger high volume ring and squeal.
5. Aluminum shielding is pressure-bonded to the interior of the bottom pan.
6. The bottom pan and coil bobbins are chemically bonded to dampen even the most minute microphonics.
7. Hookup wiring is bonded to the coil bobbins for security and for isolation of microphonics that can develop on high-gain output lines.
8. The extra-large ceramic magnet is permanently bonded to the coil bobbins for structural rigidity and microphonic isolation.
9. A protective wrapping of woven cloth tape surrounds both coils.
10. A band of aluminum shielding surrounds both coils for hum cancellation.
11. Each coil is individually wrapped with woven cloth tape to protect its delicate windings.

## Features

Original Design, Product Excellence, and Functional Simplicity.

### Balanced High-Mass Bridge/Tailpiece

No other bridge can equal the string power, note clarity, or sustain produced by our balanced mass system. Parts are machined from solid mill rolled brass for pure, perfectly balanced tone. Bridge saddles have a long travel range for accurate intonation setting with any gauge of strings. Bridge height adjustment is quick and simple to perform.



### Roller String Tree

Our roller string tree™ is designed to omit string-sticking when tuning and when bending strings. It virtually eliminates tuning issues caused by traditional string tree.



### High-Mass Vibrato

Our high-mass vibrato is designed to drop pitch with a perfect audio curve. Unlike many vibratos, our system does not sacrifice sustain or tonal quality. Solidity and balance are equal to our high-mass bridge/tailpiece. The lever is made of stainless steel for strength and immunity to corrosion. It is easily detached from the system. A neoprene stop-block placed under the mechanism serves as a silent return reference and prevents up-tuning when a string breaks.

Intonation and height adjustment are simple and easy to do. All component parts are machined from mill rolled brass  
Available on the BBM and the Fireball Models



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### Uninut™

Our special-design Uninut™ is made of hard acrylic for durability and to reproduce balanced, well-sustained open string notes.

It is engineered to fulfill three objectives:

1. to gain tighter mechanical coupling to the neck than that of conventional string nuts
2. to maintain precise string clearance and soft playing action at the first fret
3. easier, less costly servicing or replacement



### Relieved Body Cutaway

Fury instrument bodies are relieved under the base of the neck, making access to the high registers much easier and more comfortable to the player's hand. The ledge of the neck overhang serves as a solid resting surface for the thumb when wide string bends are being played in the extreme high registers.



### Offset Rear Strap Pin

All Fury models have offset rear strap pins. This placement allows the center of gravity to shift so the instrument naturally rests in a comfortable playing position. The perfect balance greatly reduces the sensation of weight, making the instrument much more comfortable to wear through long performances.





To receive information, or prices, or to place orders please contact us at:

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