



● PREAMP JACK ●

**Model 3107  
GOLD RIVER™  
ACCELERATOR JACK™**

DISCRETE CLASS A PREAMP • STEREO END PIN JACK  
NO SOLDERING REQUIRED WHEN USED WITH WCS™ PICKUPS  
ADDS CLEANER HIGHS, CLEARER MIDS, AND SMOOTHER BASS



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*What an excellent enhancement to your guitar the Gold River™ Accelerator Jack™ is! It is entirely hidden inside your guitar. "Look, Ma. No unsightly holes!" It improves the tone of any Under-The-Bridge-Saddle™ transducer or stick-on, piezo pickup. And... because it is a stereo jack, it can accommodate a second pickup, like a magnetic pickup. The Accelerator Jack™ takes the place of a your existing output jack. Because of the discrete Class A pre-amp and superior circuitry design, using the Gold River™ Accelerator Jack™ will greatly increase headroom, tone, and output to your amplifier.*

Dean Markley's West Coast Series™ Gold River™ Accelerator Jack™ is not like any other preamp jack. It is two exceptional jacks in one.

Yes, it certainly is a super high quality, gold-plated, stereo End-Pin Jack™. But... to Channel-A, Dean added a **built-in, discrete Class A pre-amplifier**. This channel is the one that goes to the tip of a male, stereo plug. You'll love the clean, enriched sound that comes through this channel from your piezo pickup.

Channel B is wired without tone alteration directly through the jack, going to the "ring" of a male, stereo plug. This is the channel that allows for the use of another pickup; it can be used to add a magnetic pickup to your system.

The Gold River™ Accelerator Jack™ works with all Dean Markley piezo transducers as well as with any other brand of piezo pickup you may have currently installed in your guitar. To hook-up another brand of transducer, an additional connector with wire and male mini-jack is included.

**GOLD RIVER™ ACCELERATOR JACK™ OUTSTANDING FEATURES:**

- Gold-Plated parts for better connections and better tone
- Discreet Class A preamp circuitry
- Preamp conveniently "hidden" within the jack
- 3-prong stereo jack with on/off battery cut off circuit
- Upgradable design, allowing magnetic pickup to be added at anytime

**PARTS ENCLOSED**

- (1) Gold plated End-Pin Jack with built in Discrete Class A preamp
- (1) 9-Volt battery holder with screws
- (1) 3 inch strip of Velcro with adhesive backing
- (3) Flexible metal, retaining clips with adhesive backing
- (1) Optional cable (for attachment to pickups other than Dean Markley WCS™)

**TOOLS NEEDED**

- Variable speed drill
- 1/8" (3.175 mm) drill bit
- 3/16" (4.763 mm) tapered step bit
- 9/16" (14.288 mm) open end wrench
- #1 Phillips head screwdriver
- 3/32" (2.381 mm) Allen wrench
- Piece of string – 16" (40.64 cm) length
- 15/32" (11.906 mm) tapered reamer (optional)
- 5-Minute epoxy (optional)
- Pair sharp scissors
- Hardwood shim (optional)
- Fine Tooth Metal File
- Awl (center punch)
- Sandpaper, 120 grit

**INSTALLATION INSTRUCTIONS**

Most guitar players realize that the investment in their prized guitar deserves a professional installation of the Gold River™ Accelerator Jack™. Your investment will be only a fraction more to have your Accelerator Jack™ installed by someone who is experienced in pickup installation.

You can install the Gold River™ Accelerator Jack™ yourself if you have patience, care, and some degree of basic guitar mechanics. The Accelerator Jack™ has been uniquely designed for simple installation and requires no soldering for ordinary applications.

**NOTICE:** Installer assumes all responsibility for damage to Accelerator Jack™, or guitar components. Be certain you read and fully understand all instructions. Have a clear, clean workspace to do the installation. Use tools in strict accordance with manufacturers recommendations and warnings. When in doubt, seek the advice of a qualified guitar specialist.

**Read ALL directions thoroughly BEFORE starting installation!**

**Part I – Installing the Gold River™ Accelerator Jack™**

**Important Note:** If your guitar presently has a typical electrical End-Pin Jack in the end block, you may remove it and proceed to step 4 in Method Two.

**Method One:** [Preferred method] Done by hand; accurate but time consuming.

1. Remove the currently installed strap End-Pin.
2. With a 15/32" (11.906 mm) reamer, widen the hole size to 15/32" (11.906 mm). (Available from Stewart McDonald, 1-800-848-2273, part #4323.)
3. Proceed with Step 4 in Method Two.

**Method Two:** This method is much quicker and also works acceptably, but is not recommended for instruments with abalone or decorative veneers at the end block.

1. Remove the currently installed strap End-Pin.
2. Apply masking tape around exposed hole to protect the instrument's finish.
3. Using a sharp 3/16" (4.763 mm) tapered step bit, line up the End-Pin hole and begin drilling, keeping the step bit at a 90 degree angle to the guitar bottom. Use steady, even pressure. Allow the step bit to go all the way thru the End-Pin block of the instrument, **ensuring the drill's chuck does not come in contact with the outside of the body of the guitar**, so that the diameter of the hole is a continuous 15/32"—all the way thru. **Allow the drill bit to come to a complete stop before removing from guitar.** Remove any particles of wood that may be left over.
4. Now the Gold-Plated Gold River™ Accelerator Jack™ is ready to be installed:
  - 4A. Remove the strap holder, smaller hex nut, and small inner-diameter, flat, silver washer from the end of the jack.
  - 4B. Verify that the outer protective gold cylinder casing of the Gold River™ Accelerator Jack™ is screwed on finger-tight. When it is screwed on snugly you will be able to see the tiny female jack inside the cylinder. Look where the red and black wires are coming out of the cylinder to verify that the silver female jack is visible inside the gold outer protective casing. This female jack is where you would insert the male jack of the Piezo pickup.
  - 4C. Move the larger (9/16" / 14.288 mm) hex nut, lock washer, and flat silver washer on the Gold River™ Accelerator Jack™ assembly as far as it will go towards the wired end of the jack.
  - 4D. Place the Gold River™ Accelerator Jack™ assembly inside the guitar and push through the end-pin hole. If this hole is difficult to reach, use a string threaded from the outside of the guitar and tie it to the Gold River™ Accelerator Jack™. Pull the string and jack through the hole.
  - 4E. Screw the small inner-diameter, flat, silver washer and smaller hex-nut onto the smaller (in diameter) threads of the jack and tighten it firmly.
  - 4F. Now is the time to tighten the nut on the inside of the guitar so the jack sets firmly in the end-pin hole. Hold the jack in place with the Allen wrench in the small hole at the outside end of the input jack. Tighten the nut with the (9/16" / 14.288 mm) open-end wrench (a little more than hand-tight - so it holds in place).
  - 4G. Place strap holder over Gold River™ Accelerator Jack™ and tighten hand-tight.

## Part II – Installing Battery Clip Holder

The battery clip holder may be installed in a number of locations. We prefer Method 3 because it is not so permanent, nor does it cover *some* serial numbers.

### 1. Neck block with screws

- 1A. Position the clip on the neck block. Using an awl (center punch), mark holes.

- 1B. Using #1 Phillips screwdriver, fasten battery clip to neck block.

### 2. Inside Upper Bout (side of guitar)

- 2A. This method requires making a hardwood shim 1/8"x 2" x 1" (3.175 mm x 50.8 mm x 25.4 mm).

- 2B. After making the shim, pre-drill holes in the shim and attach metal battery holder with enclosed screws.

- 2C. While holding the shim, find a convenient level spot on the inner section of the guitar side. Once you have located this spot, using five minute epoxy, mount the shim. When epoxy is dry, the battery may be installed.

### 3. Velcro installation, in the corner of neck block and upper bout of the guitar.

- 3A. Separate the two pieces of Velcro.

- 3B. Align the 2 velcro pieces, with the “fuzzy” side facing the “prickly” side. Press the two sides together firmly so they are tightly together.

- 3C. Using a sharp pair of scissors, cut the two connected 3 inch pieces of Velcro in half, leaving equal length pieces.

- 3D. Remove the protective paper from the “fuzzy” side of one of the combined sets. Attach the sticky adhesive side of the velcro to the back of the battery holder.

- 3E. Repeat step 3D with the other half of the connected Velcro and attach it to one of the sides of the battery holder.

- 3F. Locate the area to the right of the neck block and against the upper bout side of the guitar, where you want to place the battery holder. Try pushing it into place before removing the protective paper from the adhesive.

- 3G. Once you are comfortable with the positioning, remove protective paper from the back of both “prickly” sides of the Velcro pieces. Then push the battery holder into your chosen location. Press firmly to make sure the Velcro attaches firmly to the guitar.

- 3H. Attach the red and black battery wire to the 9-volt battery and place the battery in the battery clip holder.

After you have installed all the pickups you are going to install with the Gold River™, the wire retaining clips must be installed. The wire clips will hold any excess wire. As each guitar is different, you must experiment and decide on the most convenient locations for the clips. Normally, the best location for the clips are on the sides or perhaps on the bracing. Secure excess wire so no vibration can occur.

## Using your Dean Markley Gold River™ Accelerator™ Pre-amp

When using the Gold River™ Accelerator Jack™ with the Dean Markley Barstow™ pickup, there is no soldering required. Simply plug the mini phono jack, which is connected to the Barstow™, into the female jack. This jack is located just inside the end of the Gold River™ Accelerator Jack™ where the red and black wires come out.

For other transducer pickups (Dean Markley Sweet Spot™ or Artist Transducer™, and other brands), a male mini-plug with stripped wire is enclosed for plugging directly into the female input of the pre-amp. These wires must be soldered to the pickup wire, **taking care to match positive and negative polarity.** It is best to use shrink wrap on this style of connection.

The Gold River™ Accelerator Jack™ is equipped with a long black wire that terminates with a female Qwik-Knx™ connector which fits onto the male Qwik-Knx™ connector on the bottom of a Dean Markley Tahoe™ pickup.

To connect the Tahoe™ to the Gold River™ Accelerator Jack™ loosen the pickup clamps using #1 Phillips screwdriver. Then attach the Qwik-Knx™ connector to the Tahoe™. **Make sure the green dot is facing you and the red dot faces the pickup. This will assure correct polarity.**

Place the pickup in the sound hole, moving it as close to the neck as possible and make sure that the pickup adjustment screws are centered with your strings.

Tighten screws until clamps start to grab. Be certain the pickup is secure so a jolt to the guitar or a bump to the case will not dislodge pickup. (This could easily scratch guitar if the assembly became loose.) Periodically check your pickup to make sure it is not loose in the sound hole due to vibration or weather changes.

When using the Gold River™ Accelerator Jack™ in your guitar, you will instantly hear major tone improvements—more brilliant highs, a very clean, clear mid range, and a deep warm bass response.

Enjoy your new Gold River™ Accelerator Jack™!!

See the complete line of pickups and accessories of the Dean Markley West Coast Series™ Acoustic Gear™ at your local Authorized Dealer, or on the [www.DeanMarkley.com](http://www.DeanMarkley.com) web site.

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All specifications are subject to change without notice.

The Gold River™ Accelerator Jack™ was designed and engineered by Dean Markley.