AT-1

ULTRASOUND™ ACOUSTIC TRANSDUCER PICKUP by GMF
FOR ANY ACOUSTIC INSTRUMENTS WITH A SOUNDBOARD
INSTALLATION AND OWNER'S MANUAL

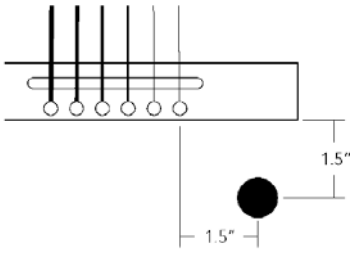
Congratulations on your purchase of the **AT-1** soundboard transducer pickup. The **AT-1** from **GMF** is a revolutionary new soundboard transducer pickup contained in a real wood housing for use with just about any acoustic instrument. The **AT-1** works great for an acoustic guitar but it also is a great pickup for a violin/fiddle, cello, stand-up-bass, banjo, mandolin, piano, ukulele, horn, or practically any instrument that vibrates. The **AT-1** installs simply to your instrument with putty or a peel and stick adhesive. (No special tools required). Once installed you can amplify your instrument's sound with any guitar amplifier (acoustic or electric), or by connecting directly into a P.A. system or mixing console.

What is the AT-1?
The **GMF AT-1** is a high impedance transducer. The **AT-1** is reasonably free from feedback in common environments but any "body sensitive" transducer can feed back at high enough **S**ound **P**ressure **L**evels. If feedback occurs, reduce the output level of your amp or PA system or reposition the instrument in relation to the amp or PA speakers. Your goal is to amplify your sound not distort it.

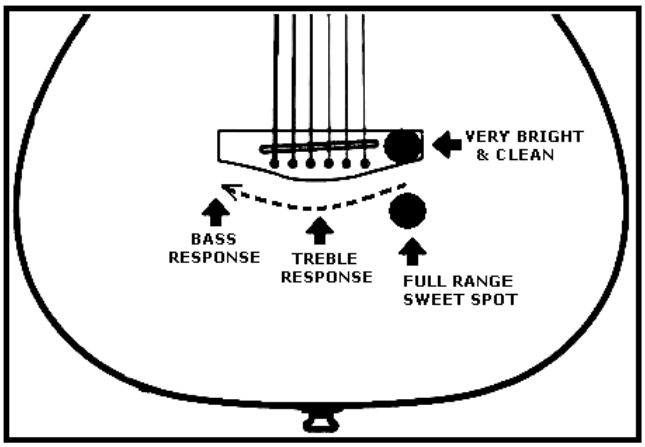
Will the AT-1 be all I need?
Although the **AT-1** has enough output to drive most amplifiers, PA and mixing console inputs, for best results we recommend running it through a high quality pre/amp with minimum input impedance of 1 meg ohm, like the ***GMF Ai1***. This will help realize the full frequency response potential of the pickup and allow for cable runs longer than 10 feet without signal deterioration. Use a high quality, low capacitance ¼" shielded instrument cable. This will ensure minimal tone coloration and hum. By using the ***GMF Ai1***, you can control the tone, output level, and most importantly when using a transducer pickup the "PHASE". The PHASE switch allows you to invert the signal and control any feedback from excessive instrument output (See installation for best placement. For all other instruments visit our website for placement suggestions and user tips).

Installation:

Pickup Placement: Note: *Thoroughly clean all dust, oil and fingerprints off of the instrument prior to installing the pickup.*
Finding the sweet spot is the key to great sound amplification. As a general rule, the transducer should be mounted over a freely vibrating location and not over a "dead" structural internal instrument brace. The exact location for best results should be determined by experimentation. We recommend you use the green putty to help find your sweet spot.
To determine the approximate location of the transducer on an acoustic guitar, measure about 1.5" (3.8cm) below the bridge and 1.5" (3.8cm) below the highest pitched string and mark the position with a very small piece of putty where these two measurements meet. This will serve as a test location. (See below)



With freshly cleaned fingers, tear off a piece of the green putty (included), and spread it on the entire bottom surface of the pickup. The **AT-1** is rather lenient for placement, but we recommend you begin at the location above. Check the location by plugging in the pickup and listening.
Should the position prove unsatisfactory, move the pickup in ¼" increments and re-test until you find the best position.



Please visit our website **www.gmfamps.com** for recommended pickup locations on other instruments, FAQ and Troubleshooting.

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