

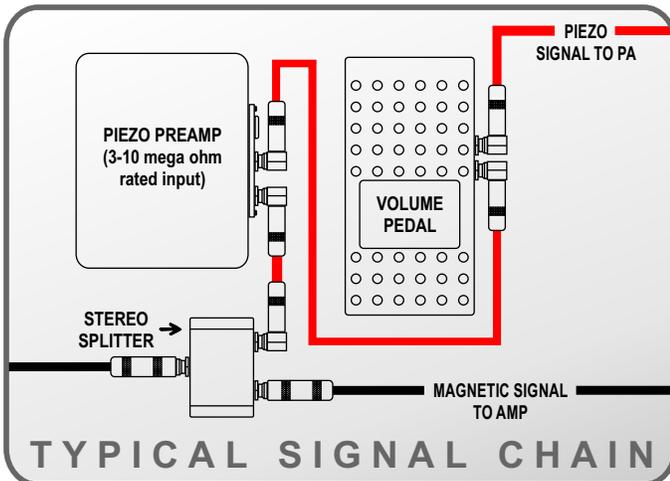
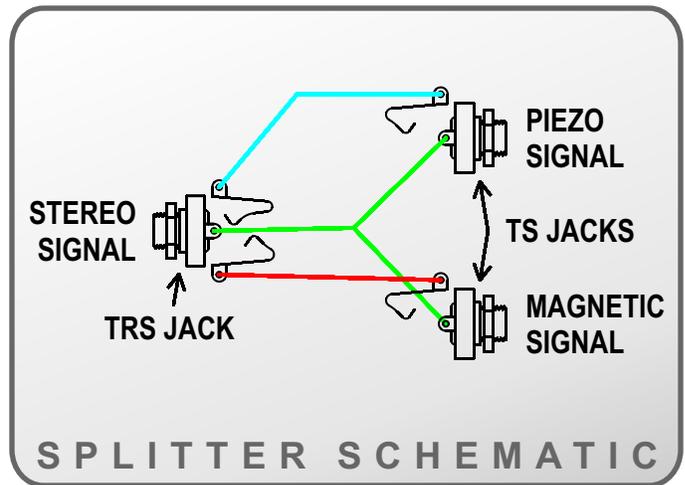
# piezo-one™ P1-1 Operation and Installation

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Brenner piezo-one gang guitar saddles are designed to facilitate simple, reversible, non-destructive piezo pickup installation. Saddle tops are precision machined from billet aircraft quality alloy. Each string support is designed to efficiently concentrate string energy to its own sonically engaged piezo element. Piezo-one saddles are machined with compensation that is optimized for both intonation and action using "unwound G" string sets. The P1-1 model is a "string through" design that is a direct replacement for "modern" or "Strat" style saddles". The P1-1A configuration features compensation adjustment screws located for bridge plates with 2-1/16 inch (52.5mm) string spacing. The P1-1B features screw locations spaced for plates with 2-1/8" (54mm) spacing.

Magnetic and piezo pickup signals can be controlled using most common onboard hybrid preamplifiers. These preamps will provide combined piezo/magnetic signal output in mono mode, and separate signals in stereo mode. The best sounds are produced in stereo mode. Magnetic pickups sound best through guitar amps driving 10 or 12-inch speakers. Piezo pickups are best routed through the piezo pre-amp and then into an acoustic guitar amplifier, or PA system having 2 or 3 way speakers.

This instruction describes stereo jack installation for use with an outboard piezo preamplifier. It offers simplicity, superior sound, and the greatest flexibility for processing both piezo and magnetic signals. The guitarist can choose a stereo cable for electric and piezo-acoustic sounds, or a mono cable for magnetic pickup only operation. Outboard preamps are less costly and easier to replace as they become obsolete. Stereo TRS (tip, ring, sleeve) jacks are the same size, or only slightly longer than the mono TS jacks found on guitars. There is seldom a need for woodcarving.



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Installation: Measure and note dimensions on outer most strings (guitar high E, and low E strings) for height above the bridge plate. Measure the distance from the back of the bridge to the outer string intonation points (string /saddle contact point at the front of each saddle). Remove strings and existing string saddles. Install P1-1 saddle using two intonation-adjusting screws and two springs (provided). Piezo-one saddles are equipped with three height adjusting setscrews. String height should be established using outer set screws while center screw is backed off. The center screw is provided for center support after height is established. Adjust intonation and height screws to properly position the piezo-one saddle to previously noted dimensions. Notch the pickguard or pickup ring to contain the piezo pickup wire between it and the guitar body. You may prefer to save the integrity of original parts and purchase a replacement ring or pickguard for this purpose.

Identify and note colors of magnetic pickup signal wire (attached to the jack "tip" connector), and ground wire (attached to the jack "sleeve" connector) on existing jack. Connect wires to corresponding "tip" and "sleeve" connectors on the new stereo TRS jack supplied. The piezo signal wire (center wire of piezo coax cable) should be connected to the "ring" connector on the TRS jack. The piezo cable's outer ground shielding wire automatically connects to ground when the saddle is mounted on a metal bridge plate that has been grounded (typical on most electric guitars). The piezo pickup's ground connection may be combined with the guitar jack's ground connection, but this may result in noise or "hum" from a ground loop condition. The piezo pickup's ground connection must be connected to the jack's "sleeve" connection for installation on instruments with non-metallic bridges, or on instruments without magnetic pickups.

COMING SOON - piezo-one equipped bridges for guitars with Tune-O-Matic and wrap around bridges!

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