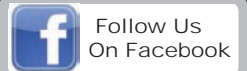


Schatten Design

Acoustic Pickups

For the finest handmade acoustic pickups

By Canada's leading pickup manufacturer



Used By Some Of The World's Best Builders



And Some Of The World's Finest Artists



Peggy Seeger



Ars Nova



Sahra Featherstone



Grayson White



John McFee



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Don Wayne Reno



Mini-Pre
Compact
Acoustic Preamp

New In This Catalog

Schatten Design

Acoustic Pickups

627 Colby Drive Waterloo, Ontario Canada N2V 1B4
519-742-3862 toll free: 877-633-0177 fax: 519-742-1843

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email: sales@schattendesign.com

Catalog K

Soundboard Pickups

The Dualie Players - For Guitars, Ukuleles & other small instruments.

More Responsive **Higher Output** **Lower Profile**
Lighter In Weight **New, More Attractive Appearance**

Available in two models:

The Dualie Player Inside'R: for internal mounting - comes with a take apart endpin jack

The Dualie Player Outside'R: for external mounting - comes with a 10 foot sheilded cable and 1/4" plug

Versatility and ease of installation are the hallmarks of the Dualie. Originally designed as a soundboard pickup for guitars and measuring only 1" x 1 1/2" x 3/8", the Dualie has evolved into a multi-purpose pickup suitable for guitar, ukulele, kalimba, virtually any instrument with a soundboard. Available in two models, all Dualies come completely wired and are supplied with our special non-marring putty.

Dualies are designed to work properly without a preamp when going into any regular guitar amp.



Dualie Inside'R

Dualie Outside'R

Preamp / DI

Extensively tested with our pickups, these Preamp-DI's will allow you to plug your instrument into virtually any amplifier, PA system or mixer and sound terrific. No more mis-matching impedance issues going into a 'strange' sound system. No more weak output or signal line-loss issues due to the length of the mixer cables.

Available in 2 models:

Preamp / DI Plus - single channel mono preamp with one set of controls.

Preamp / DI Max - two channel preamp with two full sets of controls. May be run stereo into two channels or two mono's into two channels.

Features: Preamp, DI, XLR Balanced output, 1/4" Unbalanced output, 9 volt onboard battery power, 48 volt phantom power capable, metal case. Size: 5" x 7 1/2" x 2 1/2". Weight 2 1/2 lbs.

Controls For: Input gain, bass, treble, notch filter, mid shape, XLR level out, line level out, phase.

Lights For: 9 volts, 48 volts (phantom power)



Preamp / DI Max shown

Player Endpin Jack Preamps

Player Endpin Jack Preamp



Available in 2 formats:

Player Endpin jack preamp

Player Plus 2 Endpin jack preamp with thumbwheel volume and tone controls.

Specs: Single channel with trim pot, Gain: Adjustable 0 to 20 db, Power: 9 volts dc, Battery Life: approx. 2000 hours, Input Impedance: 10 M ohms, Output Impedance: approx. 2 k ohms, Output: Mono.

Mini-Pre Compact Preamp

NEW Belt Clip Acoustic Preamp



The Mini Pre - Big performance in a small package. Compact in size at only 1 inch thick, 2 inches wide, and a touch over 3 inches in length. Weight is 4.5 ozs. (125 grams) with a battery.

Simple - The Mini Pre has a volume control, that's it.

Solid - Tough enough to take years of stage abuse. Hang It Where You Want - The Mini Pre comes complete with a sturdy belt clip that installs in a minute, so that you may clip the preamp to your belt or strap.

Specs: Single channel with trim pot, 1/4" input jack, 1/4" output jack, Gain: Adjustable 0 to 20 db, Power: 9 volts dc, Battery Life: approx. 2000 hours, Input Impedance: 10 M ohms, Output Impedance: approx. 2 k ohms, Output: Mono.

Artist II Endpin Jack Preamps

Artist II Endpin Jack Preamp with Multiple Power Capabilities - May be run from a 9 volt battery, phantom power, or an outboard battery pack. This preamp gives you total versatility.

Patent Applied For



You no longer have to put a battery inside your instrument if you don't want to (or if you can't). The new Artist II endpin jack preamp can be run from any one of three power sources. Thumbwheel volume controls for each channel are available. An 18 volt outboard battery pack is optional, as is a reasonably priced special XLR to stereo guitar cord that is required for running phantom power or the battery pack.



Available in 3 formats:

Artist II Endpin jack preamp

Artist II Plus 1 Endpin jack preamp with 1 thumbwheel control

Artist II Plus 2 Endpin jack preamp with 2 thumbwheel controls

Specs: 2 Channels, one trim pot per channel, Gain: Adjustable 0 to 20 db per channel, Power Range: 9 volts dc to 48 volts dc, Battery Life: approx. 900 hours (9v.), Input Impedance: 10 M ohms, Output Impedance: approx. 5 k ohms, Output: Mono.

Acoustic Pickups

2

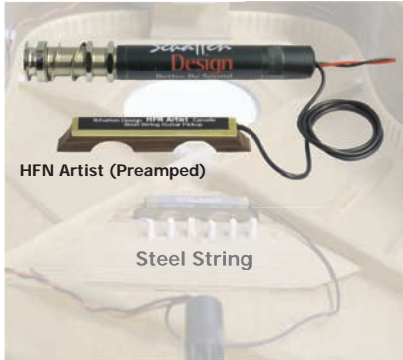
HFN Guitar Pickups

Finally, there is a pickup that lets an acoustic guitar sound as good plugged in as it does unplugged! No quack, no 'under the saddle' head-aches, nothing but the true sound of the instrument. The HFN's are so transparent in sound quality, you'll swear you were listening to a mic'd guitar... ..it is that remarkable.

The HFN Series is our bestselling line of pickups. They achieve unmatched acoustic sound and compare in brilliance and sound quality only to a high end studio microphone. The piezo sensing units are fully noise shielded and when combined with our endpin jack preamps, make the HFN's a truly remarkable pickup system.

The HFN series of pickups was designed to be used with a preamp. All HFN pickups are available in three basic model ranges: As the HFN Player (passive) which does not come with a preamp, as the HFN Active which comes with a single channel Player endpin jack, and as the HFN Artist which comes with a two channel endpin jack preamp that can be run on outboard or phantom power supplied by an amp or PA mixer.

There are no changes to the playability of any instrument since the saddle and saddle slot remain untouched. The only hole to be drilled in an instrument is for the endpin jack or endpin jack preamp. All HFN series pickups come pre-wired and are ready to install.



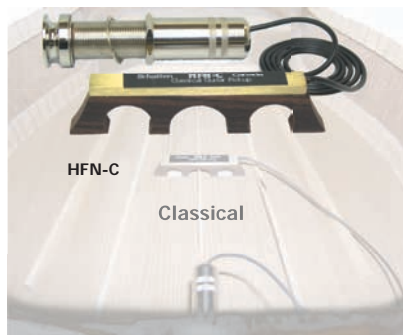
Acoustic Guitars / Steel String

HFN Player (passive) endpin jack, no preamp

NEW HFN Active with Player endpin jack preamp
NEW HFN Active VT with Player preamp, volume and tone thumbwheel controls

HFN Artist with Artist II endpin jack preamp
HFN Artist Plus 1 with Artist II preamp, 1 thumbwheel volume control
HFN Artist Plus 2 with Artist II preamp, 2 thumbwheel volume controls

These HFN's will fit virtually any steel string guitar ranging from a triple O to a 12 string. The pickup mounts to the bridge plate with either 3M VHB foam mounting tape or our special mounting putty. Installation is quick and easy and takes about 15 minutes.



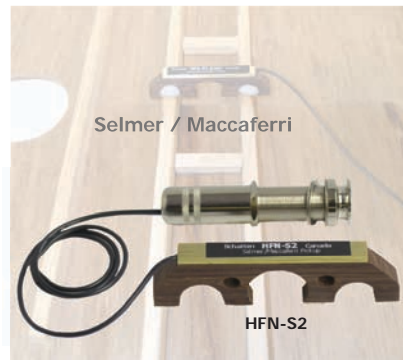
Classical Guitars / Nylon String

HFN-C Player (passive) endpin jack, no preamp

NEW HFN-C Active with Player endpin jack preamp
NEW HFN-C Active VT with Player preamp, volume and tone thumbwheel controls

HFN-C Artist with Artist II endpin jack preamp
HFN-C Artist Plus 1 with Artist II preamp, 1 thumbwheel volume control

The HFN-C models are designed to provide unparalleled acoustic sound from classical guitars. Offering the same simple installation features as all HFN's, the C models are available in both passive and preamped formats. All C model piezo units attach securely to the underside of the top beneath the bridge using 3M VHB foam self adhesive strips. The C models were specifically designed to allow the pickup to clear the center brace of a classical guitar.



Selmer / Maccaferri Guitars

HFN-S2 Player (passive) endpin jack, no preamp

NEW HFN-S2 Active with Player endpin jack preamp
NEW HFN-S2 Active VT with Player preamp, volume and tone thumbwheel controls

HFN-S2 Artist with Artist II endpin jack preamp
HFN-S2 Artist Plus 1 with Artist II preamp, 1 thumbwheel volume control
HFN-S2 Artist Plus 2 with Artist II preamp, 2 thumbwheel volume controls

The HFN-S2 pickup systems represents a real advancement in sound quality and response for Selmer style instruments. These pickups give the player the best of both worlds: incredibly accurate reproduction and tonal quality combined with high feedback resistance.

The S2 transducer mounts to the bracing with the supplied special putty and will fit most popular brands of Selmer style instruments. An installation tool kit is available at a nominal price for installing the pickup system into petite bouche - small soundhole instruments. S2's are not designed for Favino brace spacing.

UST Guitar Pickups

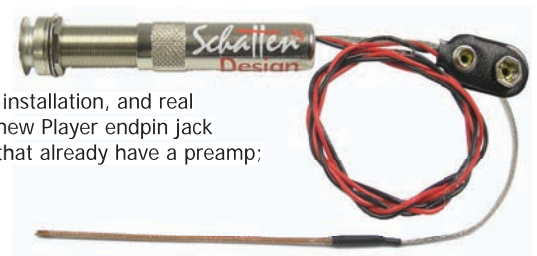
UST Under Saddle Series For Steel String Guitars

The new UST series of under the saddle pickups for steel string guitars combines great sound, ease of installation, and real affordability. The UST series features a robust piezo polymer cable element that when combined with our new Player endpin jack preamp provides outstanding sound quality. This pickup is available in passive format for those musicians that already have a preamp; the UST series is designed to be run with a preamp.

Great Sound Simple Installation Excellent Feedback Rejection
Volume and Tone Thumbwheels Real Affordability

Available in 3 models:

UST-1 Player (passive) no preamp
UST-1 Active with Player endpin jack preamp
UST-1 Active VT with Player preamp, thumbwheel volume and tone controls

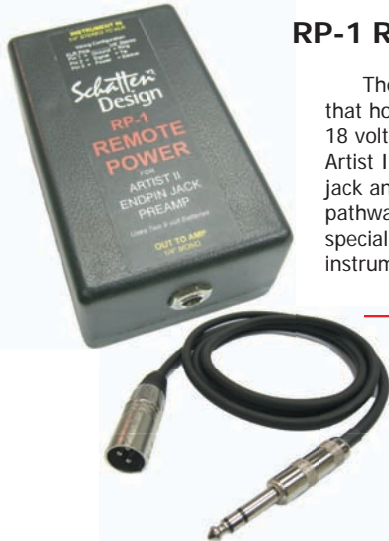


UST-1A Player

Artist II Accessories

RP-1 Remote Power Module

The RP-1 is a heavily built ABS box that holds two 9 volt batteries to provide 18 volts d.c. of outboard power for our Artist II endpin jack preamp. With an XLR jack and a 1/4" jack for signal and power pathways, the RP-1 requires the use of the specially configured CAB-1 cable from instrument to the power module.



CAB-1 Cable

The CAB-1 cable is required for the Artist II endpin jack preamp to be able to utilize either the phantom power capabilities or the RP-1 Remote Power Module.

Archtop Guitar

NEW



AT-04 Archtop

The AT-04 represents the evolution of the archtop guitar pickup.

Features:

- Fuller, fatter sound with more even response
- Reduced hand and fingering noise
- Greater range of adjustability
- Easily adaptable for archtops requiring low bridge height

The AT-04 combines a fully compensated adjustable ebony bridge with a specially designed suspended sensor element at the bottom of the saddle. This pickup provides great sound and lots of output; all without requiring a preamp when going into any regular guitar amp. The AT-04 comes supplied with a quality take-apart endpin jack.

Resonators

RG-03 Series for spider bridge reso's

The RG-03 series of pickups is designed to fit all normal Dobro types of resonator instruments. Tremendous output and range along with good feedback rejection are achieved through the design of the piezo unit and its' unique mounting position: centered on the underside of the cone.

The RG-03 comes in four models:

- RG-03 Player (passive) with endpin jack*
- RG-03 Std (passive) with MVC self adhesive jack assembly*
- RG-03 Pro (passive) with MVCplus self adhesive jack with volume control*
- RG-03A (active) with Artist II preamp*



NR-2 Series for biscuit bridge reso's

Our latest pickup design for National type instruments features a light weight element that mounts to the face of the saddle or the top of the biscuit with 3M VHB tape. Two of the four models are non-invasive and come with 1/4" jack assemblies that simply stick to the surface of the instrument next to the tailpiece.

NR series comes in four models:

- NR-2 Player (passive) with endpin jack*
- NR-2 Std with MVC self adhesive jack assembly*
- NR-2 Pro (passive) with MVCplus self adhesive jack with volume control*
- NR-2A (active) with Artist II preamp*



About the Artist II preamp - No More Battery

The RG-03 passive, NR-2 passive, and TC passive will work properly and sound good going into any 'normal' guitar amp. Professional players who need higher output and more signal strength for use with PA systems should be using the RG-03A, NR-2A or TCA pickup systems with the Artist II endpin jack preamps that allow for multiple powering options.

This preamp allows the unit to be powered from phantom power or an outboard battery box. You do not have to put a battery inside your resonator instrument. Special CAB-1 cable required for remote powering, RP-1 remote battery box is optional.

TC Series for Tricone reso's

The TC Series of pickups is designed specifically for Tricone resonator instruments. The piezo unit attaches to the bass side of the T-bridge with a small amount of our special supplied putty. For those players that want a non-invasive installation, the TC Std and Pro models install externally with no holes drilled.

TC series comes in four models:

- TC Player (passive) with endpin jack*
- TC Std (passive) with MVC self adhesive jack assembly*
- TC Pro (passive) with MVCplus self adhesive jack with volume control*
- TCA (active) with Artist II preamp*



Banjos

BJ-02 Series Banjo Pickups

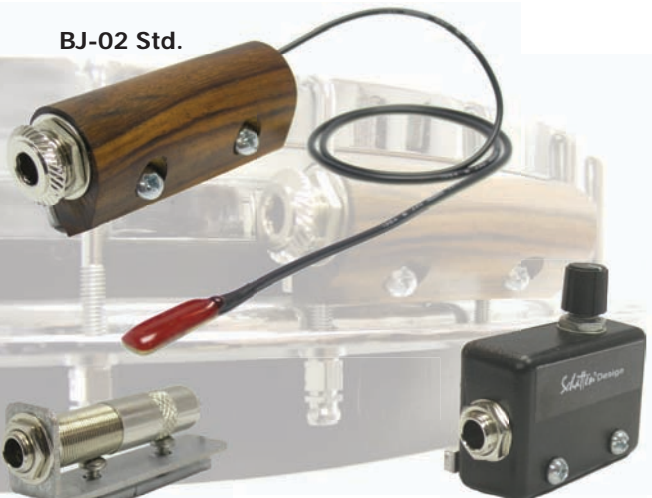
The BJ-02 series is one of our most popular lines of pickups. Designed for all 4, 5, and 6 string banjos, it installs quickly and easily into any banjo. The virtually weightless pickup sensor adheres to the underside of the banjo head directly under the bridge, while the jack assembly secures to the tensioning hooks.

The pickup provides both high output and excellent feedback resistance, and now with the option of a jack assembly with volume control, our BJ-02 series will meet the needs of even the most active banjo player.

Available in 3 models:

- NEW** BJ-02 Player with simple 1/4" metal jack bracket
- BJ-02 Std with rosewood bodied 1/4" jack assembly
- BJ-02 Pro with black NBJA plus volume control jack assembly

BJ-02 Std.



Jack assembly for BJ-02 Player

Jack assembly for BJ-02 Pro.

Appalachian Dulcimer

D-3 Std. Player

Easy to install, the D-3 Std. appalachian dulcimer pickup comes complete with a rosewood bodied jack assembly. With no modifications required, the sensor mounts to the soundboard of the dulcimer with our special non-marring putty. The jack assembly mounts securely to the end block with 3M VHB foam tape.

Dulcimers

Hammered Dulcimer and Piano

HD2 / P2

The HD2 / P2 pickup system was designed for larger soundboards. Supplied with two separate transducer units each attached to a 10 foot shielded cord, the HD2 / P2 pickup system may be run stereo into 2 PA channels or into a single channel with the supplied 'Y' connector.

Autoharp

AD-01 Player

The AD-01 is a powerful, low profile pickup that was specifically designed for the autoharp. It can be mounted on the inside or outside of an instrument depending upon access and preference. The AD-01 comes complete and ready to use and no preamp is necessary when plugging into a regular amp.

Harps

Celtic and Pedal Harp

REDESIGNED

CH-3 Artist (active) with onboard preamp

The CH-3 Artist pickup system is designed to work flawlessly on both Celtic and Pedal harps. Installation is completely non-invasive; there are no holes to drill and no modifications are required to the instrument. The feet of the pickup base are articulated so that they can rotate to fit the curvature of virtually any harp soundboard.

The transducer unit spans the string strip on the inside of the harp and adheres to the soundboard with our special putty. A new fully adjustable cork padded bracket holds the preamp and output jack in place across a sound port and a self adhesive velcro attached holder for the 9 volt battery makes installation a snap. The pickup system may be left in place or removed and re-installed as needed.

The CH-3 Artist delivers full, rich sound quality and ease of installation all in one neat package.

Utility Pickup

EP-01 Series

The EP-01 is a small lightweight piezo sensor that comes with 18" of shielded cable. Designed for one time interior or protected installation, the pickup has great output. Sensor placement will determine sound quality.

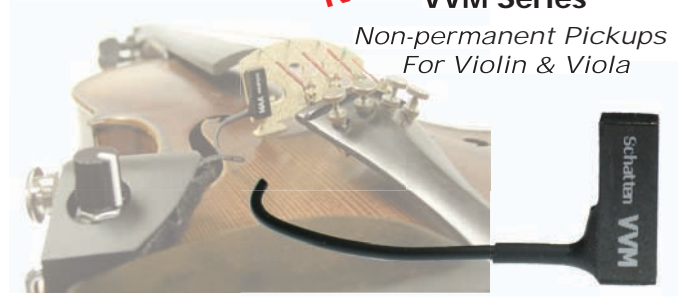
Available in 3 models:

- EP-01 non-terminated (no jack supplied)
- NEW** EP-01J supplied with 1/4" chrome button endpin jack
- NEW** EP-01JG supplied with 1/4" gold button endpin jack

Violin & Viola

NEW VVM Series

*Non-permanent Pickups
For Violin & Viola*



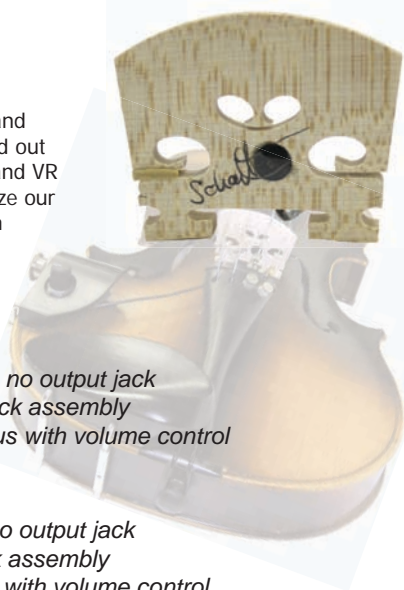
Good sound and ease of installation are some of the main reasons that our VVM series of pickups is so popular. Designed for violin and viola, the pickup sensor simply sticks on the bridge with our special putty. All VVM's come with a jack assembly and are completely wired and ready to go.

The VVM Series for Violin and Viola

*VVM Std. violin/viola pickup with SJA jack assembly
VVM Pro. violin/viola pickup with SJApplus with volume control*

V-02 Series & VR Series

Thousands of players, professionals and amateurs alike are getting the best sound out of their violins and violas with our V-02 and VR series of pickups. Both pickup series utilize our proprietary single sensor built into a high quality medium density bridge.



The V-02 Series for Violin:

*V-02 Player (non-terminated) with no output jack
V-02 Std. violin pickup with SJA jack assembly
V-02 Pro. violin pickup with SJApplus with volume control*

The VR Series for Viola

*VR Player (non-terminated) with no output jack
VR Std. violin pickup with SJA jack assembly
VR Pro. violin pickup with SJApplus with volume control*

Mandolin Mandola Bouzouki

MT Series For Flat Top Mando's



MT Std.
(shown)

The M-02 and MT series of pickups feature a full length sensing element built into a high quality ebony bridge. The M-02 bridge is compensated and height adjustable, the MT bridge is compensated and is 3/4" high.

The new MVC jack assemblies mount from the tailpiece of most instruments and are much more secure than the older clamp on type. Low in profile and only 1/2" high, they tuck in right next to the tailpiece and remain out of the way of a player's hand.

The MT Series:

*MT (non-terminated) with no output jack
MT Std. mandolin pickup with MVC jack assembly
MT Pro. mandolin pickup with MVCplus with volume control*

M-02 Series For Arched Top Mando's



M-02 Pro.
(shown)

The M-02 Series:

*M-02 (non-terminated) with no output jack
M-02 Std. mandolin pickup with MVC jack assembly
M-02 Pro. mandolin pickup with MVCplus with volume control*

BM Series For Bouzouki & Mandola, Mandolin

Non-permanent adheres to bridge

For Fixed (Non-Adjustable) Bridges



BM-1 Pro.
(shown)

The new BM series of pickups for bouzouki, mandola, and fixed bridge mandolins features a specially designed lengthened stick-on piezo unit that attaches to virtually any existing bouzouki, mandola, or mandolin non-adjustable bridge. The jack assembly mounts easily to the underside of a 'normal' tailpiece with 3M VHB tape.

The BM Series For Bouzouki, Mandola, Mandolin

*BM-1 Std. Player bouzouki/Mandola pickup with MVC jack assembly
BM-1 Pro. bouzouki/Mandola pickup & MVCplus w/ volume control*

M-05 Series For Mandolins

Non-permanent adheres to bridge

For Adjustable Bridges



M-05 Pro.
(shown)

New M-05 series of mandolin pickups features a compact stick-on piezo unit that attaches to virtually any adjustable mandolin bridge (including the Brekke type). Fixed bridge mandolins should use the BM series. The jack assembly mounts easily to the underside of a 'normal' mandolin tailpiece with 3M VHB tape.

The M-05 Series For Mandolin

*M-05 Std. Player mandolin pickup with MVC jack assembly
M-05 Pro. mandolin pickup with MVCplus with volume control*

Jack Assemblies

SJA Series For Violin & Viola

Available with our V-02, VR, and VVM series of pickups or as an optional accessory, the SJA series of jack assemblies provides a secure 1/4" output for your instrument. Both models feature chrome mounting hardware with heavy cork padding to protect the instrument's finish.



SJAplus - Gives you the convenience of a volume control at your fingertips.



SJA - Nicely sculpted low profile jack assembly.

MVC Series For Mandolin Mandola Bouzouki



The MVC series of jack assemblies is designed to mount from the underside of a 'normal' tailpiece. Only 1/2" high, it nestles in right next to the tailpiece and stays out of the way of a player's hand. Installs quickly and securely with 3M VHB foam tape.

The MVC series:

- MVC Std.* low profile ABS jack assembly with 1/4" output jack
- MVC Pro.* low profile ABS jack assembly with volume control

BJA Series For Banjos

NBJA



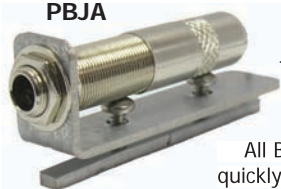
The NBJA banjo jack assembly gives you a 1/4" output jack built into a nicely crafted rosewood body.

NBJAplus



Want a volume control for your banjo pickup? The NBJAplus provides a 1/4" output jack and a volume control, all integrated into a small black ABS box.

PBJA



The PBJA is a simple metal jack assembly that gives you a 1/4" output jack for your banjo.

All BJA banjo jack assemblies mount quickly and securely to the tensioning hooks of the banjo.

Volume Control

BB-01 Plug In Volume Control



The Black Box enables the user to have a volume control right at their fingertips by simply plugging into the endpin jack of an instrument. Ruggedly built into a die-cast aluminum box, the BB-01 is built to withstand the most vigorous stage conditions.

The Black Box is designed to work flawlessly with virtually any preamped pickup system. It is not suggested for use with passive pickups.

RB Bass Pickups

NEW

From Bluegrass to Rock-A-Billy

The New RB series of upright bass pickups gives you tremendous sound, ease of installation - and you can tailor the RB to suit your needs. **For Basic Bass:** the RB-1 features a piezo sensor that fits into the bass side wing slot and comes with a black jack assembly that clips between the strings. The RB-1's work well going straight into a normal bass amp. For added versatility, the RB-1A adds a small preamp that mounts to the back side of the tailpiece.

For Rock-A-Billy: the RB-2 adds a second sensor and a pair of thumbwheel volume controls; both mount to the underside of the fingerboard.

The RB-2A adds a small preamp that mounts to the back side of the tailpiece.

The RB comes in 4 models:
RB-1 Player (passive) with black jack assembly

RB-1A (active) with onboard preamp

RB-2 (passive) with two sensors and two thumbwheel volume controls

RB-2A (active) with two sensors, two thumbwheel volume controls and an onboard preamp



RB-2A

NEW

Cello Pickup

C-12 Std (passive) with rosewood jack assembly



The C-12 Std offers amazingly realistic sound and great clarity. Designed for continuous cycles of installation and removal, it goes on and off of the cello in a few moments and is a breeze to install. Using the special non-marring putty supplied with the pickup, the C-12 sensor attaches to the face of the cello bridge just over the bass side wing slot.

The rosewood bodied jack assembly simply clamps to the strings just above the tailpiece. The C-12 Std is designed to sound great and work properly when plugged into a regular amp.

Schatten Design

519-742-3862

toll free 877-633-0177

www.schattendesign.com

email: sales@schattendesign.com

Accessories

Corriciadan Cold Medicine Glass Bottles

All the qualities of the original glass bottle as used by generations of Great Slide Players. Seamless design, great fat tone. Available in two weights and three sizes.

Classic Weight: Small, Medium, Large

Heavy Weight: Small, Medium, Large



Luthiery Products

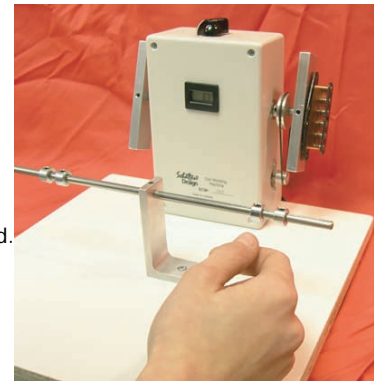
ECW Series Coil Winding Machine

Rewind broken pickups or custom wind your own

This coil winding machine is designed to properly wind coils using wire ranging from approximately 32 ga. up to 46 ga. The coil winder consists of a strong, heavy wall ABS box with counter-rotating arms. The winder's arms rotate in opposite directions to allow you to wind coils in either a clockwise or counter-clockwise manner. The entire assembly is mounted on a sturdy composite base. Mounted in front of the tower is the cross feed limiter. The limiter is used to preset the span at which the coil wire can be wound across the bobbin. A re-settable digital rotation counter is mounted on the front of the tower assembly. The tension on the wire, as well as the movement of the wire between the cross feed limits, is done by hand.

- Features:** Variable electronic speed control.
 Re-settable digital rotation counter.
 Outside rive belt location.
 Power supply: External 9 volt

ECWN coil winding machine, 110 volt (for North America)
ECWE coil winding machine, 220 volt (for Europe)

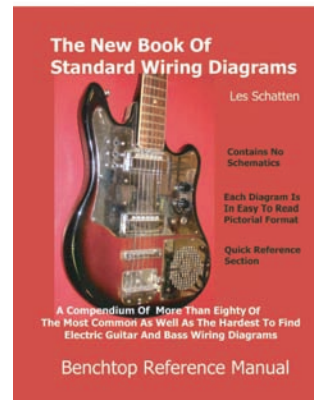


Knob and Bushing Puller



The Multiple Puller tool is a specially designed dual purpose puller that comes with two different internal puller blocks. With the 'light duty block' it can safely apply upward pressure to remove control knobs from guitars and amps. The 'heavy duty block' is used for pulling bridge and tailpiece studs and comes with the hardware necessary for extracting Gibson, Schaller, or Gotoh bushings without damage to the instrument. A rubberized base helps to protect the guitar's finish.

Multi-Puller knob and bushing puller tool



Book of Standard Wiring Diagrams

This straight forward benchtop reference manual covers the wiring diagrams for all of the leading brands of electric guitars and basses. Drawn in an easy to follow style of pictorial diagrams, it also contains a lot of those hard to find diagrams as well as the strange and unusual.

Contains information on switches, pickup wiring color codes, quick reference sections.

Eighty pages, spiral bound

Thumbwheel Controls



Thumbwheel controls come in four models:

- T-1 250 single thumbwheel, 250k*
- T-1 500 single thumbwheel, 500k*
- T-2 250 twin thumbwheel, 250k*
- T-2 500 twin thumbwheel, 500k*

Self adhesive circuit board mounted thumbwheel controls are available in single and twin thumbwheel formats. The twin format units also come supplied with an appropriate capacitor so that the unit may be configured as either two volume controls or as one volume and one tone control. All units come pre-wired with 18" shielded multi-conductor leads.

Coil Wire



Poly/Nylon
 1/2 lb. spools.
 42 ga, 43 ga, 44 ga.

Magnetic Polarity Tester



A simple, easy to use tester indicates the magnetic alignment of coils in electric pickups

Panel Jack



Replacement jack as used with our violin and viola SJA and SJApplus jack assemblies and banjo NBJA and NBJApplus jack assemblies. 3 contacts, may be used for mono or stereo output.

Endpin Jack



Take apart endpin jack, 4 contacts (including ground). As used with our passive pickups, BJ-02 Player simple jack assembly and as part of our Player Preamps and Artist II Preamps.