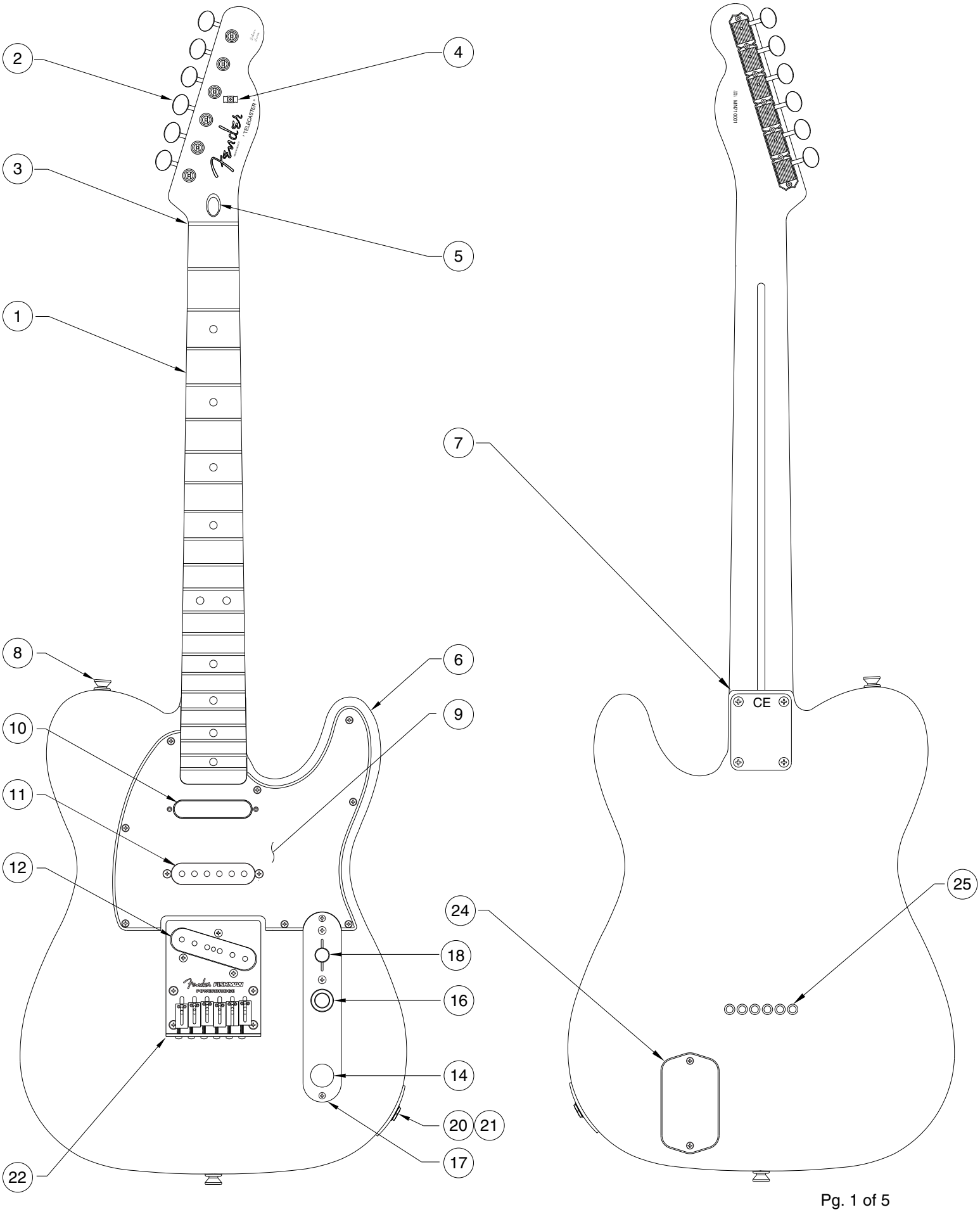
NASHVILLE POWER TELECASTER 0135000/5002



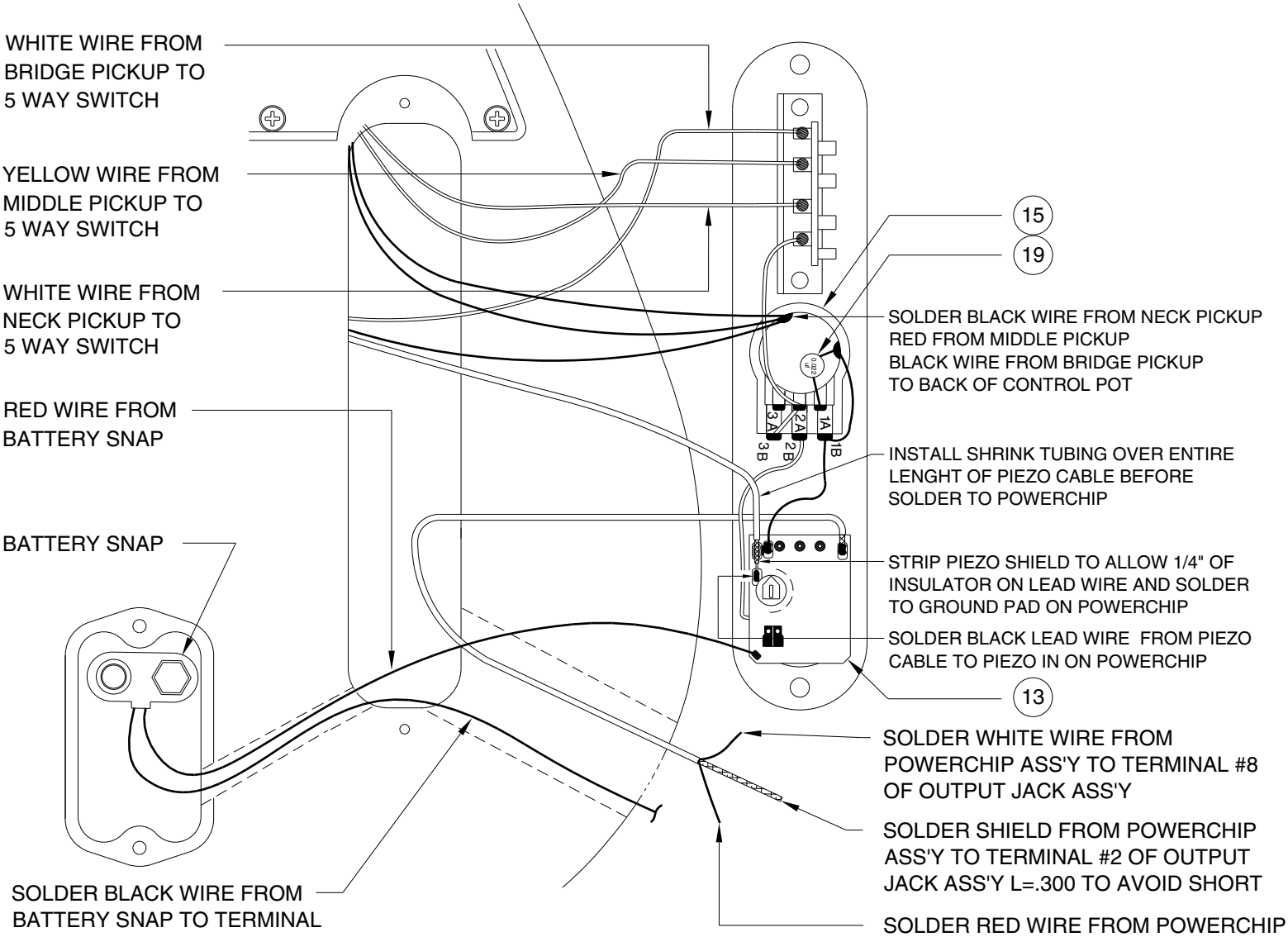
NASHVILLE POWER TELECASTER 0135000/5002

REF.#	P/N	DESCRIPTION
1	0053142000	Neck, Deluxe Telecaster 1, R/W
	0047318000	Neck, Deluxe Telecaster 1, M/N
2	0047912000	Tuning Key, (1) Set, W/Bushing
3	0083675000	Bone Nut
4	0010389000	String Retainer
	0011357000	Mounting Screw
5	0038454000	Truss Rod Adjustment Nut
	0038467000	Truss Rod Adjusting Wrench
6	0056049xxx	Body, Nash Prw Tele., Sunburst
	0056050xxx	Body, Nash Prw Tele., Solid Color
7	0018353000	Neck Mounting Plate
	0015636000	Mounting Screw
8	0012344000	Strap Button
	0015610000	Mounting Screw
	0019056000	Felt Washer, Black
	0020491000	Felt Washer, White
9	0048637000	Pickguard, TelePlus, Shell
	0015578000	Mounting Screw
10	0053112000	Pickup, Neck, Texas Mexico Telecaster
	0021409000	Mounting Screw
	0036878000	Tubing, Latex Cut
11	0053150000	Pickup, Middle, Texas Mexico Telecaster
	0048631000	Mounting Screw
	0036481000	Tubing, Latex Cut
12	0050893000	Pickup, Bridge, Texas Mexico Telecaster, Special
	0048631000	Mounting Screw
	0036878000	Tubing, Latex Cut
13	0056053000	Preamp, Fishman Powerchip Assembly, W/washer & nut
14	0013359000	Knob, Knurled Chrome
	0028897001	Set Screw
15	0019268000	Control Concentric, 250 & 500K
	0016352000	Mounting Hex Nut
	0016436000	Lock Washer, Intl
16	0056303000	Knob, Lower, Knurled Chrome
	0028897001	Set Screw
	0049458000	Knob, Upper, Knurled Chrome
	0050101000	Set Screw
17	0040778000	Control Plate
	0015578000	Mounting Screw
18	0053291000	Switch, Lever 5-Position
	0021413000	Mounting Screw
	0018359000	Knob, Black
19	0024832000	Capacitor, .022uf
20	0056055000	Output Jack, W/Hex Nut & Flat Washer
	0015578000	Mounting Screw
	0016436000	Lock Washer, Intl
21	0050100000	Jack Ferrule
22	0056052000	Bridge Assembly, Nashville Power Tele
	0016188000	Mounting Screw
	0018531000	Adjusting Wrench, Saddle Height
23	0056051000	Bridge Plate
24	0049705000	Back Cover, Battery
	0030654000	Mounting Screw
	0018556000	Foam weatherstrip
	0030688000	Insert
25	0021429000	Ferrule, String Retainer
	0058106000	BRIDGE SECTION FSHMN□□

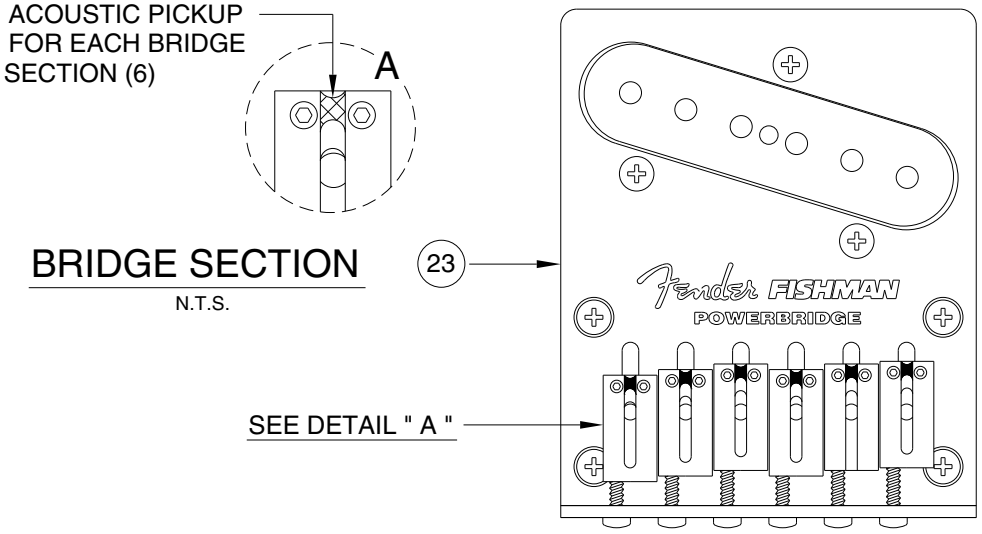
Body Part Number	
0056049532	Brown Sunburst
0056050506	Black
0056050509	Candy Apple Red
0056050580	Arctic White

NASHVILLE POWER TELECASTER 0135000/5002

CONTROL ASSEMBLY



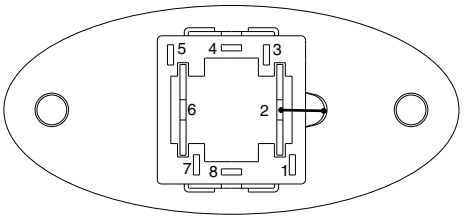
BRIDGE ASSEMBLY



BRIDGE SECTION

N.T.S.

OUTPUT JACK



TERMINAL DETAIL

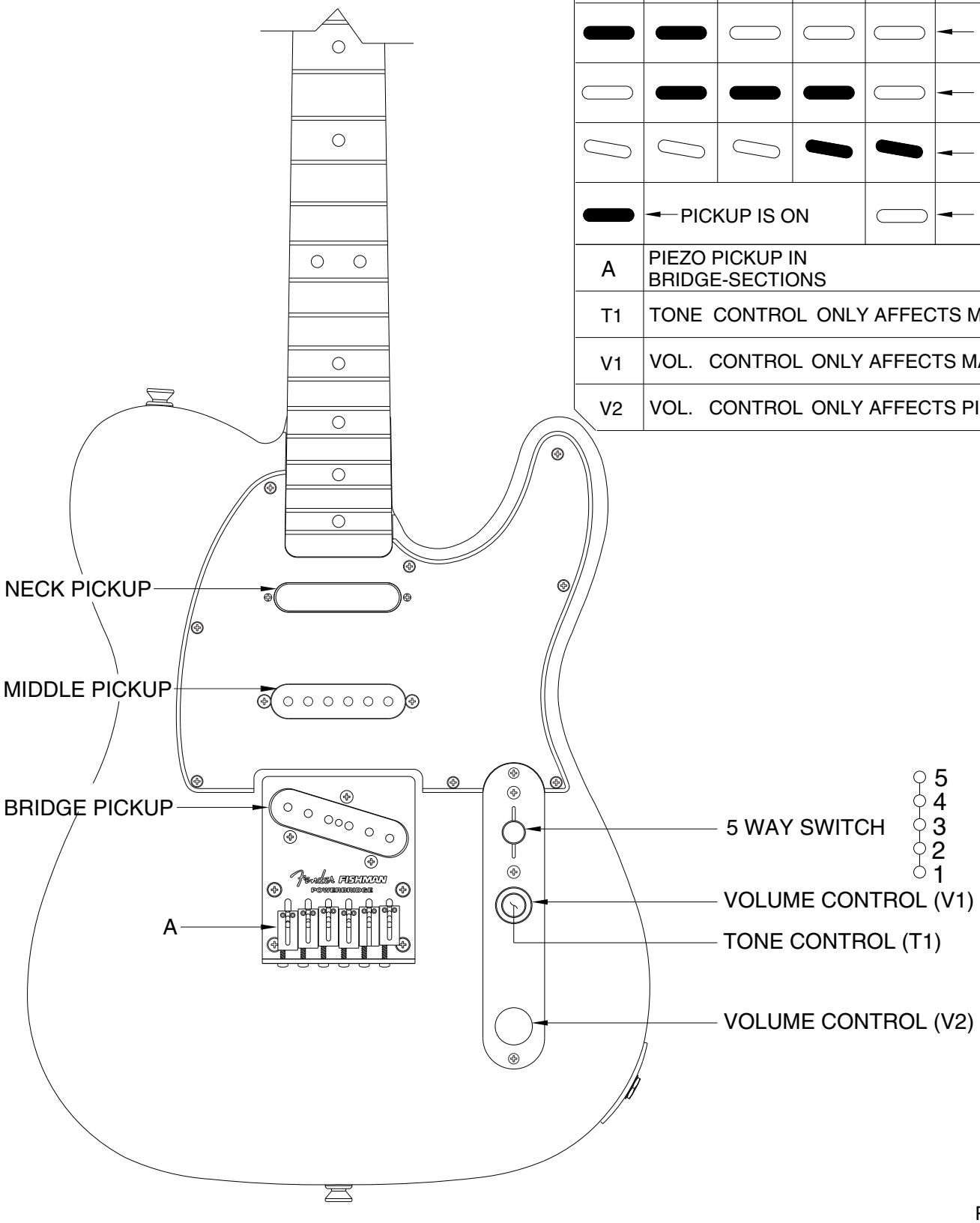
BOTTOM VIEW : N.T.S.

NASHVILLE POWER TELECASTER 0135000/5002

SWITCH & CONTROL FUNCTION

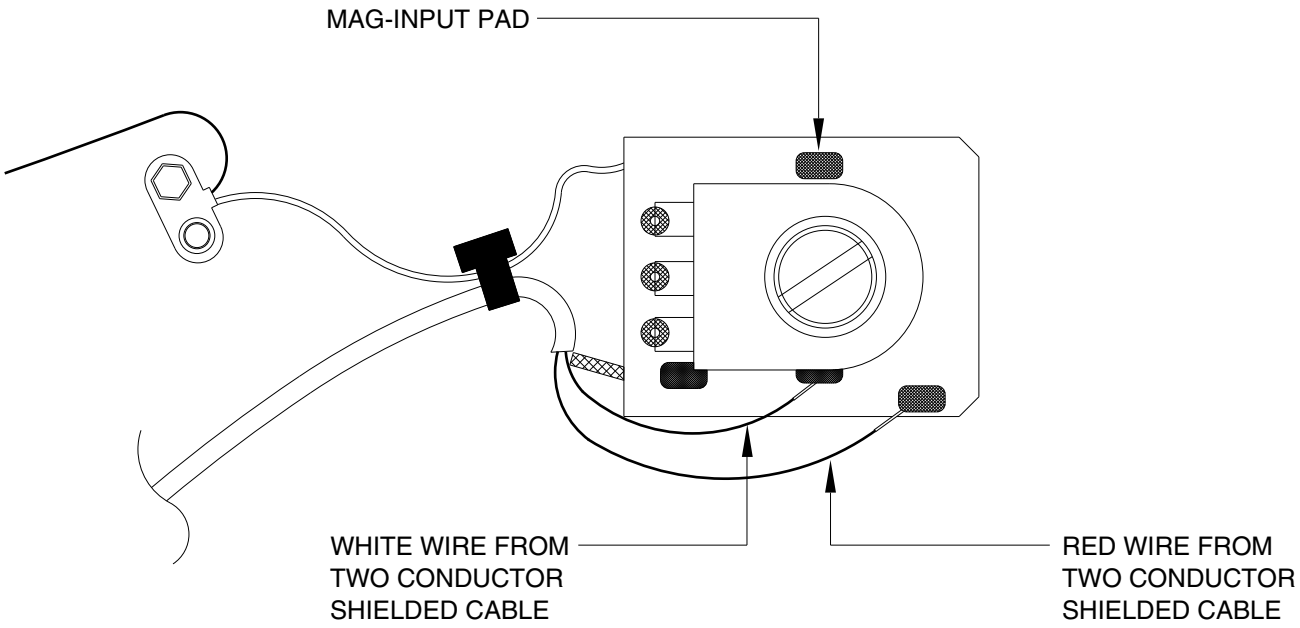
5 WAY SWITCH POSITION					
5	4	3	2	1	← 5 WAY SWITCH POSITION
▬	▬	▭	▭	▭	← NECK PICKUP
▭	▬	▬	▬	▭	← MIDDLE PICKUP
▱	▱	▱	▰	▰	← BRIDGE PICKUP
▬ ← PICKUP IS ON				▭	← PICKUP IS OFF

A	PIEZO PICKUP IN BRIDGE-SECTIONS
T1	TONE CONTROL ONLY AFFECTS MAG. PICKUPS
V1	VOL. CONTROL ONLY AFFECTS MAG. PICKUPS
V2	VOL. CONTROL ONLY AFFECTS PIEZO PICKUP



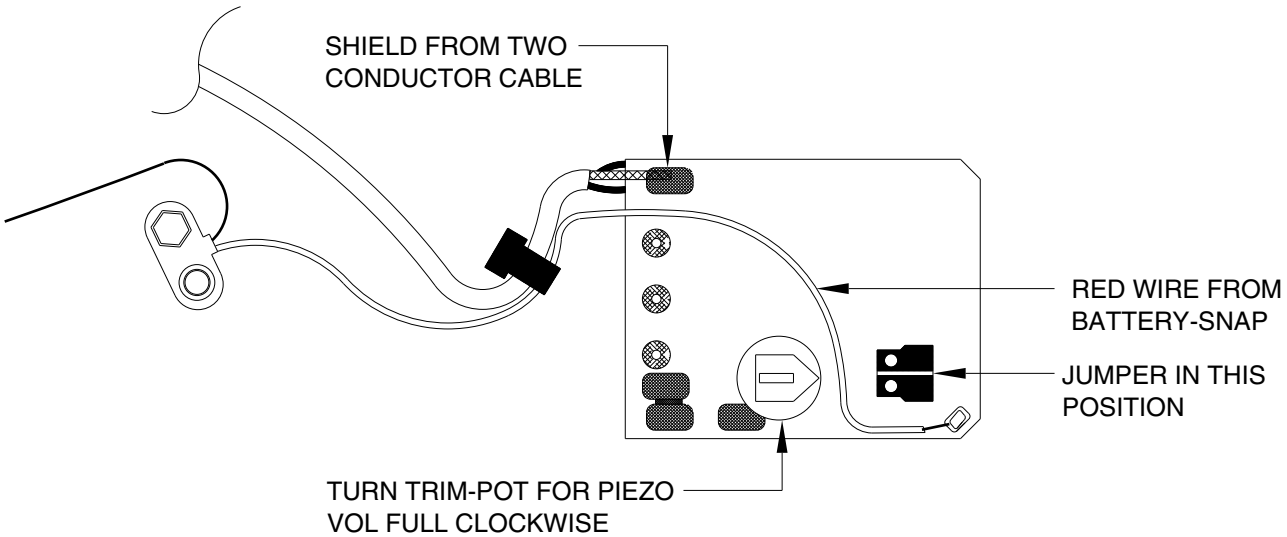
NASHVILLE POWER TELECASTER 0135000/5002

FISHMAN PREAMP POWERCHIP (WIRING DETAIL)



TOP VIEW

SCALE: N.T.S.



BOTTOM VIEW

SCALE: N.T.S.

www.fishman.com

FISHMAN

USER GUIDE
POWERCHIP

Welcome

Thank you for making Fishman a part of your acoustic experience. We are proud to offer you the finest acoustic amplification products available: high-quality professional-grade tools which empower you to sound your very best.

Troubleshooting

If you are unfamiliar with this product, please pay close attention to the requirements for installation. Failure to do so can result in permanent damage to the pickup.

Installation by a qualified professional is strongly recommended.

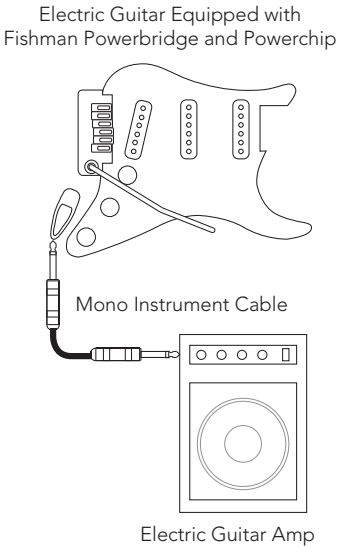
Technical support, troubleshooting tips and installation information can be found at http://www.fishman.com/support/

Description and Features

The Powerchip is a miniature onboard piezo/magnetic pickup mixing preamp, dedicated to the Fishman Powerbridge system. The preamp, mounted to the underside of a piezo volume pot, allows guitarists to combine or split piezo and magnetic pickups without any additional outboard signal routing electronics.

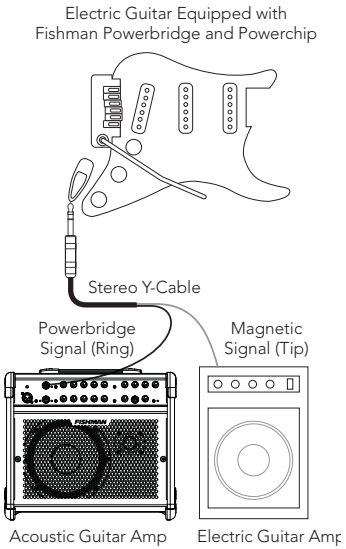
Mono Operation

Plug a standard mono instrument cable into the output of the Powerchip equipped guitar and combine the magnetic and piezo signals into a single buffered composite, suitable for any available instrument level audio input.



Stereo Operation

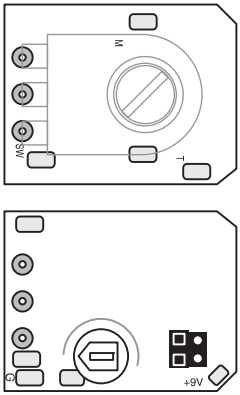
Plug a stereo "Y" cable into the output of the Powerchip equipped guitar and split the magnetic and piezo pickup signals to separate destinations. Send the buffered piezo signal (Ring) to any instrument level audio input, such as an acoustic instrument amplifier or PA system. Send the unbuffered, "immaculate" magnetic pickup signal (Tip) to a traditional electric guitar amplifier, with no added coloration or signal treatment between the magnetic pickup and the amplifier.

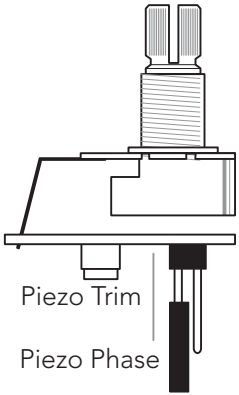


Piezo Trim and Phase

Adjust the small rotary trim pot on the backside of the Powerchip to match piezo and magnetic pickup levels.

Move the Phase jumper on the backside of the Powerchip to eliminate phase cancellation between the piezo and magnetic pickups.

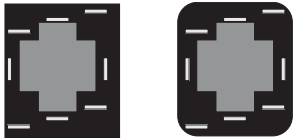




Prepare the Instrument

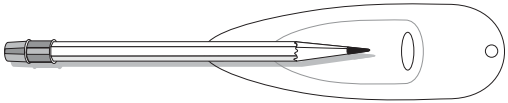
Telecaster style guitars

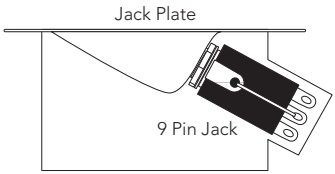
File or sand down the corners of the 9-pin jack to fit the standard Telecaster mounting hole.



Stratocaster style guitars

You will need to drill out the back wall of the jack cavity to accommodate the supplied 9-pin jack. Remove the output jack from the jack plate, then replace the jack plate on the guitar. Use a pencil through the jackplate to mark the center where your drill will enter the back of the jack cavity. Use a ¾" (19mm) spade bit to drill out the back of the jack cavity.





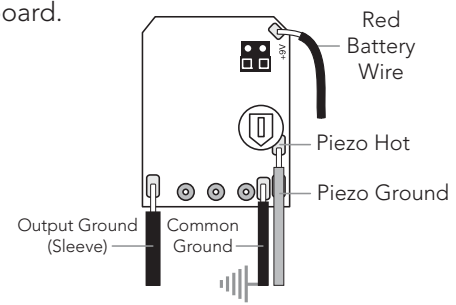
Installation and Connections

Warning: The solder pad terminals and the adjacent components on the Powerchip circuit board are quite fragile and can be easily overheated. Use only a low wattage soldering iron (30 watts max) to make your wire connections. To best utilize the space inside the guitar, solder the wires to the circuit board so that they exit toward the volume pot terminals.

1. Strip $\frac{3}{32}$" (2.4mm) and tin the wire ends of the pickups.

2. Solder the piezo pickup wire to the circuit board.

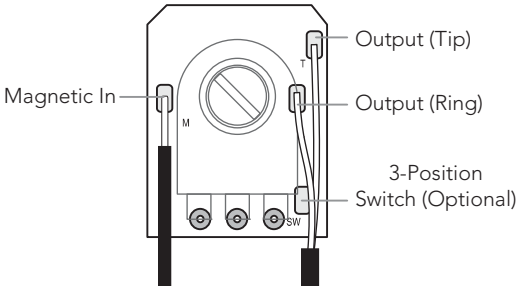
The pads are located on the side of the board opposite the volume pot. The piezo hot wire goes to the pad on the right edge of the board, directly under and to the right of the little white trimmer pot. Solder the piezo ground wire (which should be left with the braid intact) to the pad labeled "G" on the right edge of the board, directly under the piezo hot wire.



3. Solder the magnetic pickup hot wire to the circuit board.

The pad for the hot wire is located on the same side of the board as the volume pot. This pad, labeled "M," is on the left edge of the board, ¾" (19mm) from the bottom of the board. A common system ground is located on the opposite side of the board, on a second pad marked "G," adjacent to the piezo ground. Since there is room for only one wire on this pad, we suggest that you tie all grounds to the body of the magnetic volume pot, and run a jumper wire to the ground pad on the circuit board.

Note: If you install the Powerchip with active magnetic pickups (such as EMG), the Powerchip and the active pickups will share the same battery. Connect the positive battery wire from the magnetics to the +9V pad on the Powerchip. Connect the negative battery wire from the magnetics to terminal #1 on the 9-pin jack.



4. Solder the 9-pin jack to the system.

A prewired output cable from the Powerchip is to be soldered to the provided 9-pin jack. Prepare the jack by soldering a jumper wire between the sleeve terminal, located on the business end of the jack, and terminal #2, directly below.

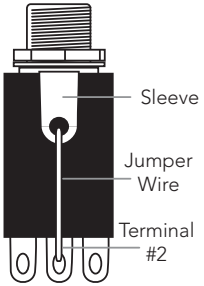
Solder the jack as follows:

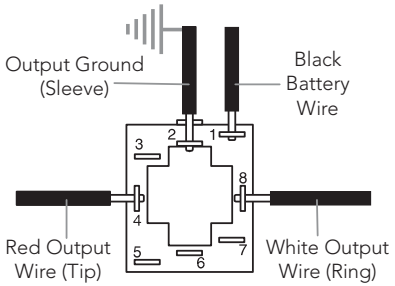
a. Solder the shield from the output cable to terminal #2.

b. Solder the red wire from the output cable to terminal #4.

c. Solder the white wire from the output cable the terminal #8.

d. Solder the black battery wire (negative) to terminal #1.

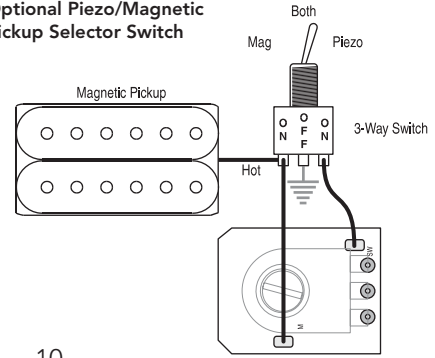




Optional Accessories

- Battery Compartment—a flush mounted, pivoting compartment allows easy access and quick battery changes.
- Piezo/Magnetic Pickup Selector Switch—a three position switch for selecting between piezo and magnetic pickup combinations (see below).

Optional Piezo/Magnetic Pickup Selector Switch



Specifications

Battery Life:	200 Hours
Current Draw:	Less than 2.8mA
Frequency Range:	20–20,000 Hz
Trim Control Range:	18dB
Maximum Output Voltage:	15V peak to peak

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009-074-001 Rev E 5-10