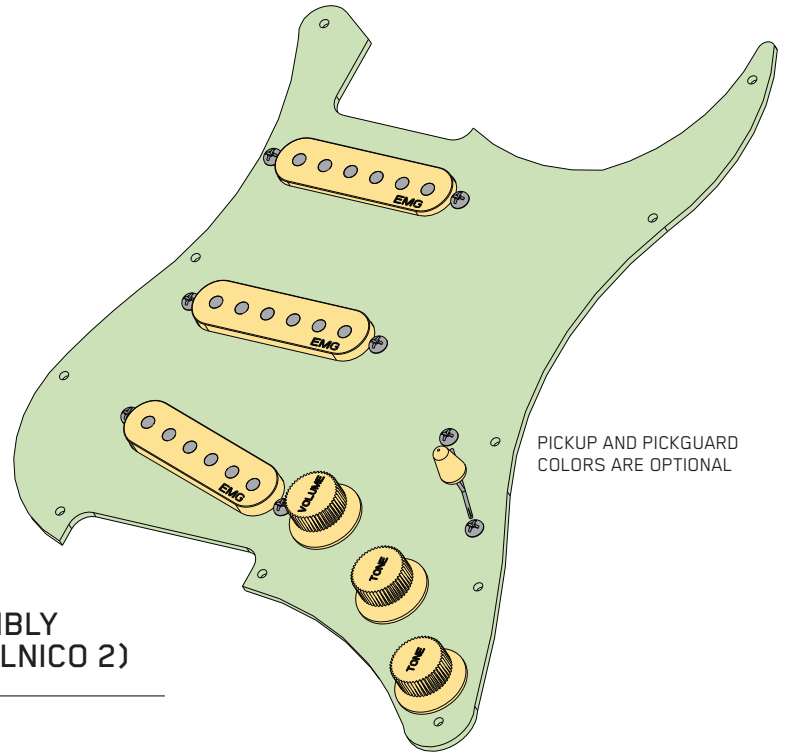




0230-0320

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PICKUP AND PICKGUARD
COLORS ARE OPTIONAL

INSTALLATION INFORMATION

EMG MODEL: **RETROACTIVE STRAT* ASSEMBLY** **RA-5 (ALNICO 5) AND RA-2 (ALNICO 2)**

GENERAL INFORMATION:

The RetroActive Strat* Series are pre-wired pickguard assemblies that are available in two versions. The RA-5 features Alnico 5 magnets, while the RA-2 features Alnico 2 magnets. Both systems feature the traditional 1 Volume control, 2 tone controls (High-End rolloff), and a 5 position selection switch. In both Systems each pickup position (Neck/Mid/Bridge) have their own resonant frequency. With different resonant frequencies for each pickup, the in-between tones (positions 2 and 4 on the switch) are strongly pronounced.

The Neck pickup having the highest resonance (around 4.5Khz) with a very fluid, even sparkly response. The middle pickup is typically around 3.5Khz, while the bridge pickup is built for bite and "in your ear" direct tone with a resonance in the 3Khz region. You'll notice the slightly lower Resonant Frequencies of the Alnico 2 set because of the added iron in the magnets, giving the coils slightly more inductance.

The Alnico 5 version is brighter with more attack because of the slightly higher magnetism of the Alnico 5 and a lower magnet iron content. The Alnico 2 version magnets have a lower amount of magnetism and have a slightly higher iron content yielding a mellower attack and a rounder overall tone. Because both sets feature Pole Pieces rather than a solid bar magnet (EMG-SA Style) their attack is typically more percussive.

The RetroActive Pickups use EMG's new discrete FET preamp that has more than enough headroom for a single coil pickup and is so low-noise you won't even know your guitar is plugged in. No need for string grounding, so no shock hazard. Low-impedance output so you can sound the same through a cable as well as wireless. and on top of that the whole system only requires 600 Micro-Amps of 9 Volt battery power.

The Systems are completely pre-wired for installation directly into most Strat* Style Guitars. The pickguard is a modern style with 11 holes.

SPECIFICATIONS:

MODEL:

	RA-5			RA-2		
	NECK	MID	BRIDGE	NECK	MID	BRIDGE
Logo Color	Gold	Gold	Gold	Gold	Gold	Gold
Magnet Type *	A5	A5	A5	A2	A2	A2
Gauss Strength at Poles	750	750	750	600	600	600
Resonant Frequency (KHz)	4.75	3.50	3.00	4.50	3.30	2.90
Output Voltage (String)	1.00	1.00	1.00	1.00	1.00	1.00
Output Voltage (Strum)	3.00	3.00	3.00	3.00	3.00	3.00
Output Noise (60 Hz)	-103	-103	-103	-103	-103	-103
Output Impedance (Kohm)	3	3	3	3	3	3
System Current @9V (Microamps)	630	630	630	630	630	630
System Battery Life (Hours)	830	830	830	830	830	830
Maximum Supply (Volts DC)	27	27	27	27	27	27

WARRANTY

All EMG Pickups and accessories are warranted for a period of two years. This warranty does not cover failure due to improper installation, abuse or damage. If upon examination the pickup is determined to be defective, a replacement will be made. Warranty replacement products are covered by this same warranty. This warranty covers only those pickups and accessories sold by authorized EMG Dealers. This warranty is not transferable.

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INSTALLATION NOTES:

The only tools you will need for the installation are a #1 Phillips screwdriver and a 3/8 inch hex nut-driver. The Pickups and controls are pre-installed on a 11-Screw pickguard and should fit easily onto any Strat* Style Guitar.

- 1) Remove the Strings.
- 2) Unscrew the existing Output Jack Plate (2 screws) and either unsolder or cut the 2 wires going to the existing output jack.
- 3) Remove the existing Output Jack and install the 12B Stereo Jack included with the VG-20 System.
- 4) Install the 12B Jack onto the Jack plate with the spring terminals pointing downward, as shown in Diagrams #1 and #1a.
- 5) Route the Output cable (WHITE) and the battery Negative wire (GREEN) through the hole in the Jack cavity into the Control cavity.
- 6) Screw the Jack plate into place and insert a 1/4 plug into the Jack to make sure it goes in all the way. If all seems to fit fine remove the plug.
- 7) Insert the Output Cable connector onto the Main PC Board marked WHT/BLK and insert the GREEN wire onto the pin marked GRN. Diagram #2
- 8) Place a 9 Volt Battery into the Control cavity as shown and insulate it with the foam provided. Diagram #2
- 9) With the battery in place and connected, it's a good idea to test the system before you screw the pickguard down. Plug a cable into the jack and into the amp, and turn up the volume slightly. Tap on the pickups with a small metallic screwdriver and make sure each pickup is working.
- 10) If all seems OK, screw the pickguard into place, restring and adjust the pickup heights for feel, tone, and overdrive.

To replace the battery:

Remove the 4 screws immediately surrounding the controls, lift the pickguard, remove and replace the battery. See Diagram #3

Diagram #1

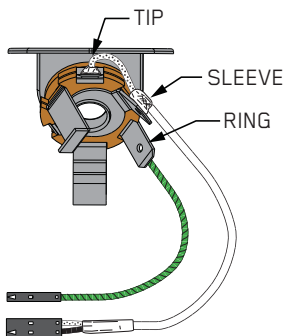


Diagram #1a

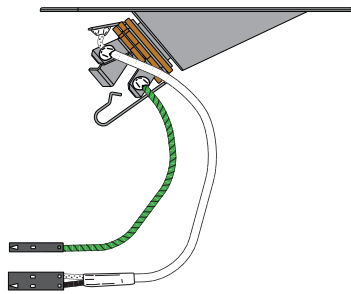
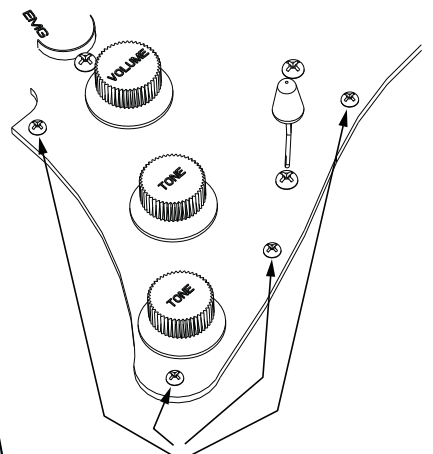
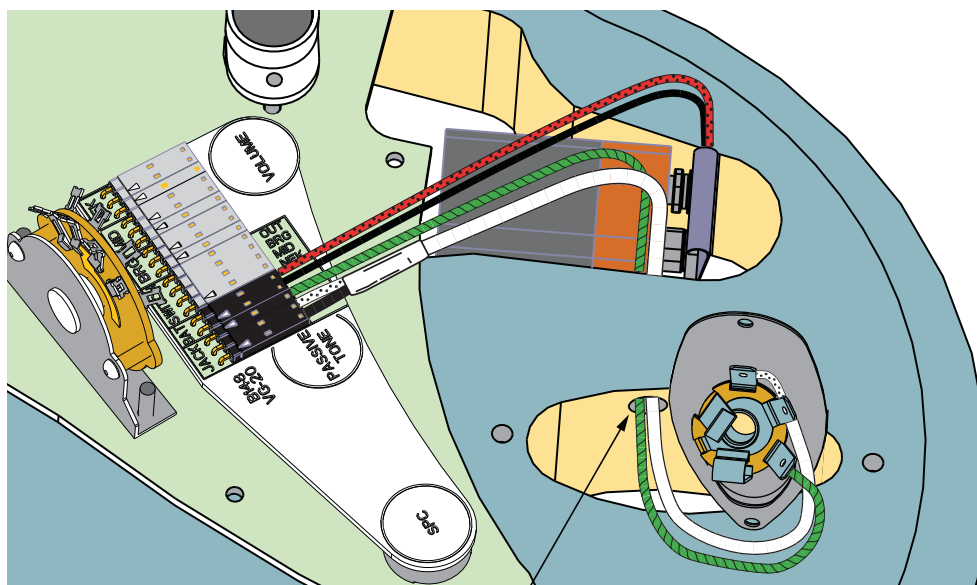


Diagram #3



Diagram #2



Battery Replacement:
Remove these 4 screws,
gently lift the pickguard,
remove and replace the battery.

Route the Output Cable and Green wire from the Output Jack Cavity to the Control Cavity and plug them onto the BLK, WHT and GRN pins on the PC Board.