INSTALLATION INFORMATION

EMG MODELS: S/S/S X COMBINATION SYSTEMS

SPECIFICATIONS (System):

<table>
<thead>
<tr>
<th>Model</th>
<th>S-X</th>
<th>SA-X</th>
<th>SAV-X</th>
<th>SLV-X</th>
</tr>
</thead>
<tbody>
<tr>
<td>Logo Color</td>
<td>Silver</td>
<td>Gold</td>
<td>Gold</td>
<td>Gold</td>
</tr>
<tr>
<td>Magnet Type *</td>
<td>C</td>
<td>A</td>
<td>A</td>
<td>A</td>
</tr>
<tr>
<td>Resonant Frequency (KHz)</td>
<td>4.52</td>
<td>4.05</td>
<td>4.55</td>
<td>3.50</td>
</tr>
<tr>
<td>Output Voltage (String)</td>
<td>1.00</td>
<td>1.00</td>
<td>1.00</td>
<td>1.00</td>
</tr>
<tr>
<td>Output Voltage (Strum)</td>
<td>3.00</td>
<td>3.00</td>
<td>3.00</td>
<td>3.00</td>
</tr>
<tr>
<td>Output Noise (60 Hz)</td>
<td>-107</td>
<td>-107</td>
<td>-101</td>
<td>-103</td>
</tr>
<tr>
<td>Output Impedance (Kohm)</td>
<td>2.00</td>
<td>2.00</td>
<td>10</td>
<td>10</td>
</tr>
<tr>
<td>Battery Life (Hours)</td>
<td>1500</td>
<td>1500</td>
<td>1500</td>
<td>1500</td>
</tr>
<tr>
<td>Maximum Supply (Volts DC)</td>
<td>27</td>
<td>27</td>
<td>27</td>
<td>27</td>
</tr>
</tbody>
</table>

*Note: Magnet Type: A (Alnico) C (Ceramic)
**Note: Specifications shown are for the entire 3 pickup system

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 Instructions:
EMG-S/S/S X Combination Systems

General Notes:
Every attempt has been made to make this a solderless installation.
There are some instances where this is not possible;
1) If your instrument uses the long panel output jack and you had passive pickups
   you will need a new stereo output jack, the Switchcraft 152B is recommended.
   Soldering to the new jack will be required, see the Power Tips Data sheet at
2) Some instruments may already have a battery holder installed and in that case
   soldering may be required.

Installing EMG Combination Systems is very easy and accomplished in a few steps.
The controls included have a 10 mm bushing height so they can be used either on a
pickguard, or body mount. The cable lengths are designed for a pickguard, so you
should make sure they are long enough if you are mounting the system into a body.
Longer cable lengths may be required.

Step One:
Mount the pickups, switch and controls
onto the Pickguard, or in the guitar body.

All diagrams show the B161 5-Position switch buss.
To learn more about the B161 5-Position switch buss,
go to the EMG Website:

Step Two:
Plug the pickup cables onto the pickups
and then onto the switch as shown.
Step Three:
1) Start by installing the RETURN cables onto the inner (closest to the PC Board) 6-pin header labeled “R”. Plug one cable for the Neck Pickup Tone control and one cable for the Middle Pickup Tone control.

1) Tone Returns:
FROM MIDDLE PICKUP TONE OUTPUT
FROM NECK PICKUP TONE OUTPUT

2) Install the SEND cables from the switch outer 6-pin header labeled “S”. One cable to the Neck pickup Tone control and one cable to the Middle pickup Tone control.

2) Tone Sends:
TO MIDDLE PICKUP TONE INPUT
TO NECK PICKUP TONE INPUT

!! Don’t forget to reverse the connectors on the input of each Tone control !!

Be sure to install the blue shunt on the bypass header for the Bridge Tone control and remove the shunts for both the Neck and Middle pickups.

3) Lastly, plug-in the RED wire from each Tone control to the accessory V+ Pins on the switch (near the pickup inputs).

Step Four:
The Pickguard is now fully assembled. Next the pre-wired output jack needs to be mounted in the Jack plate. Mount the Jack onto the plate with the orientation as shown with the Tip spring pointing down. Refer to the diagrams below and make sure the Jack is mounted tightly.

Step Five:
Route the Output cable from the Jack cavity into the control cavity via the small hole. If the hole is too small, push the connectors through one at a time.
Fasten the Jack plate onto the guitar and test to make sure the cable inserts and exits easily.

Mount the battery in the control compartment. Insulate the battery using the foam insulator provided.
Step Six:
Plug the Output cable from the Output Jack onto the Volume control as shown. Plug the green wire onto the Ring terminal of the Switch PC Board.

Step Seven:
Plug the Battery clip cable onto the BAT- (BLACK) and the BAT+ (RED) terminals of the PC Board.

Step Eight:
This completes the installation. Plug the battery clip onto the battery. We suggest you plug in the instrument, tap lightly on the pickups with a small screwdriver to make sure the pickups are working correctly. When the battery needs to be replaced (about 6 months to 1 year) refer to the diagram at the right.

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