



JAMES

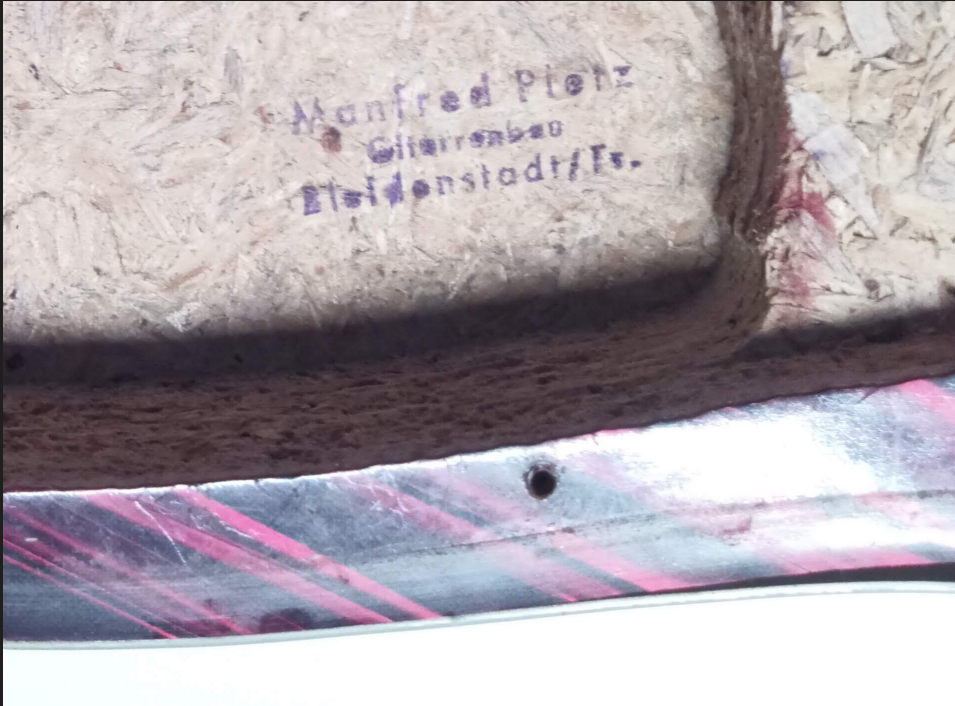
Historic E-Guitar Meets AME

Idea Pickguard AMEfication

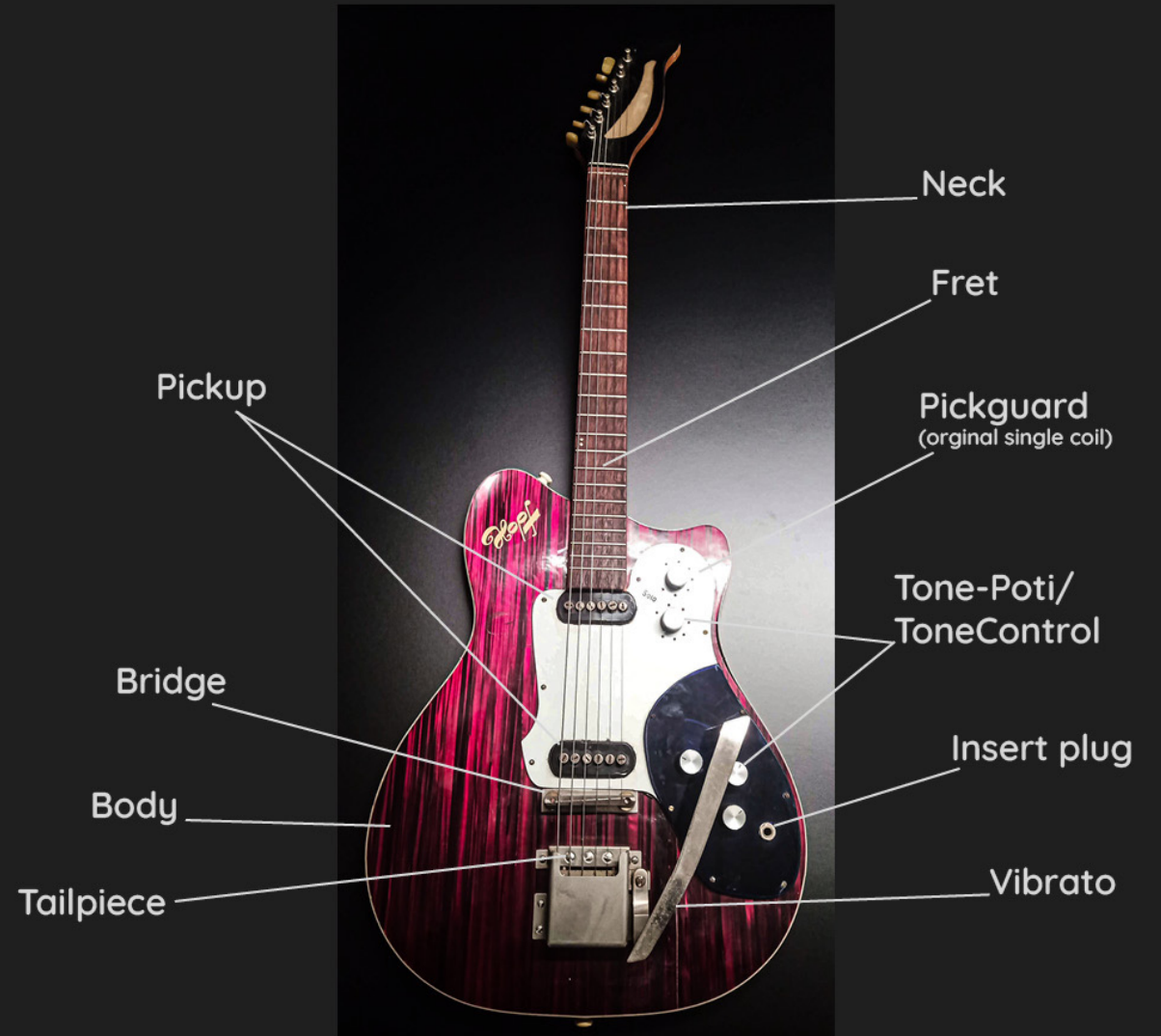
Ø1 Custom-made 1950's Hopf Guitar



JAMES



- By Manfred Pletz Gitarrenbau





Decoding an AME Project : Tips & Insights

- Install a new pickguard using an individual motherboard on the backside.
- Preserve the positions of the original inserts as closely as possible.
- Wire the motherboard for humbuckers to enhance signal performance.
- Utilize 3D-printed coaxial connections for superior shielding, minimizing the need for traditional cabling.
- Design the motherboard form factor for easy implementation.
- Goal: Eliminate wire cabling and simply solder the various potentiometer pads to the motherboard.

02 The Pickguard

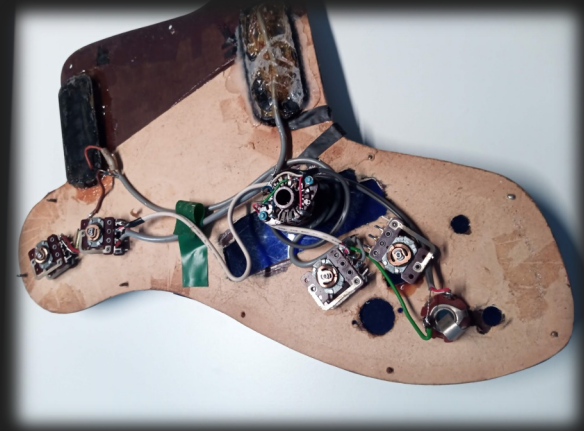


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Original custom style but different from the basic original



Former position of radio buttons

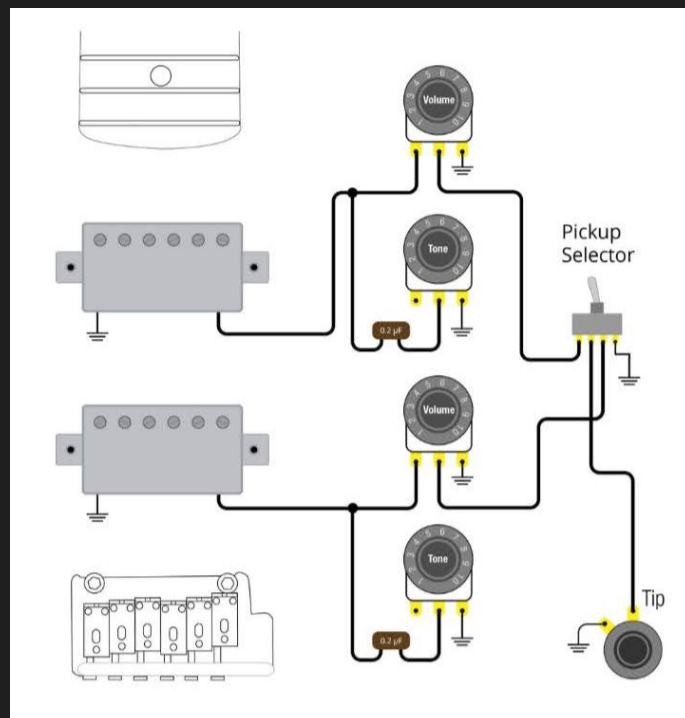


03 Volume & Tone Control Circuit



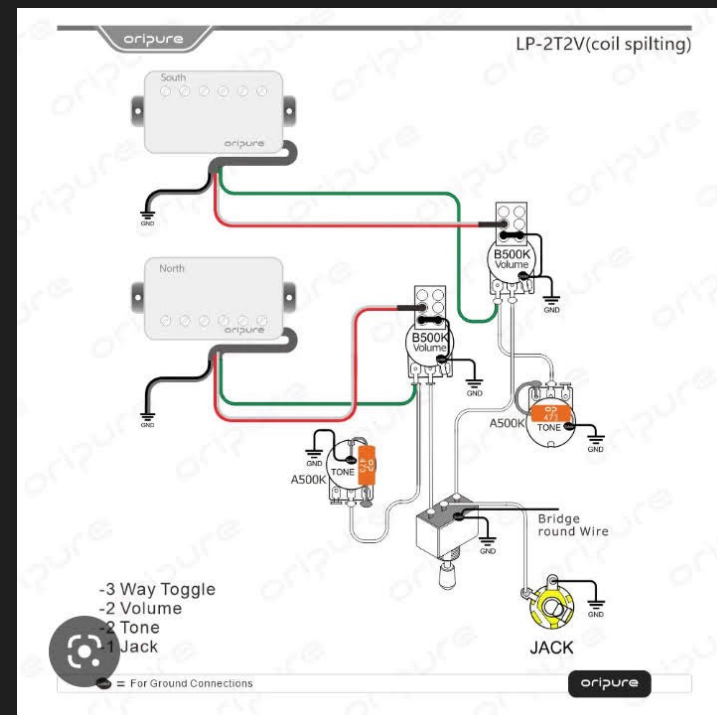
How to implement the Radio Buttons best instead of the pickup selector to perform SOLO I, II, Rhythm and Off?

Les Paul/Gibson Style



Suitable

With Coil Splitting

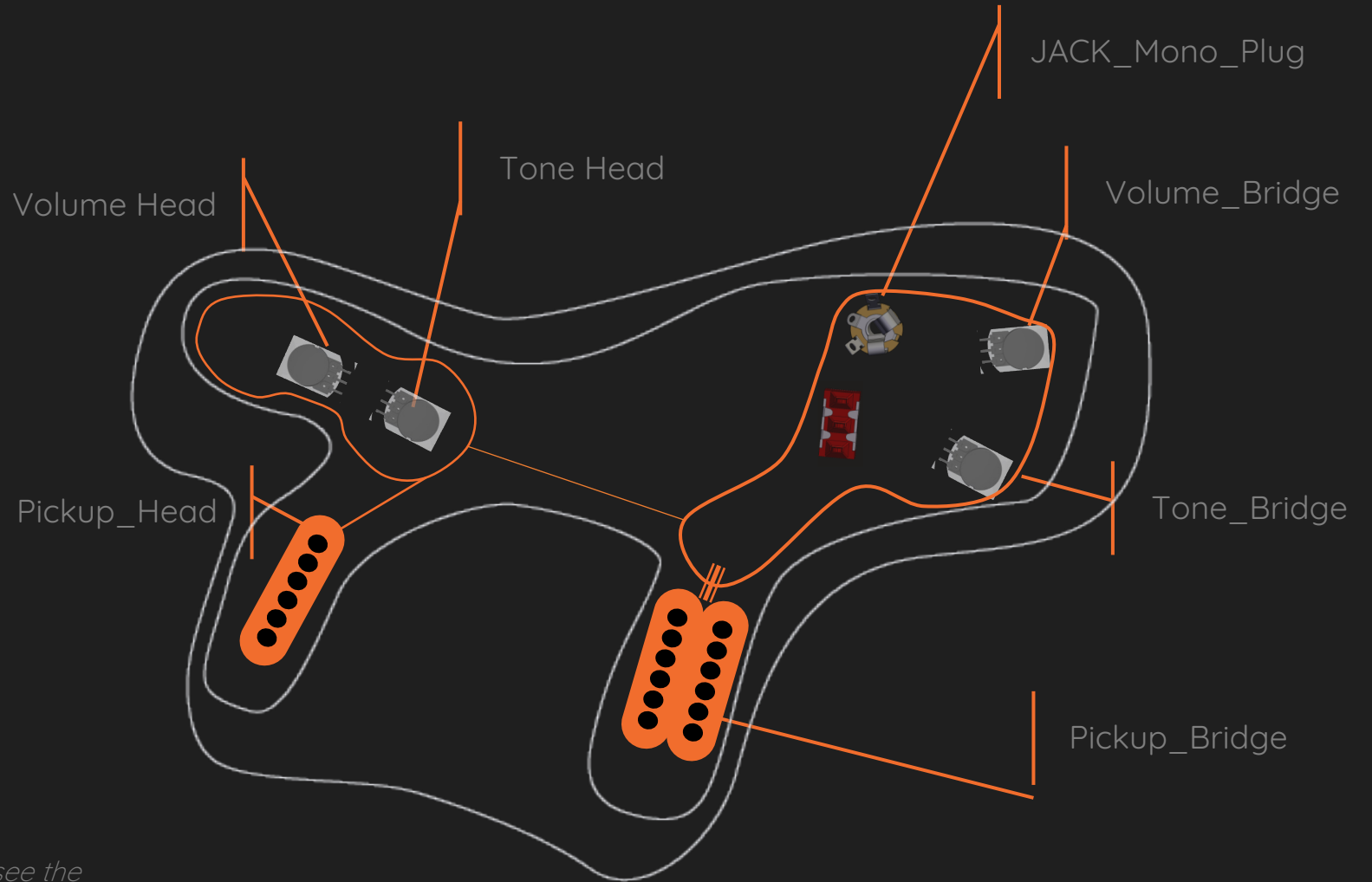


Not suitable for this design

04 AMEFication



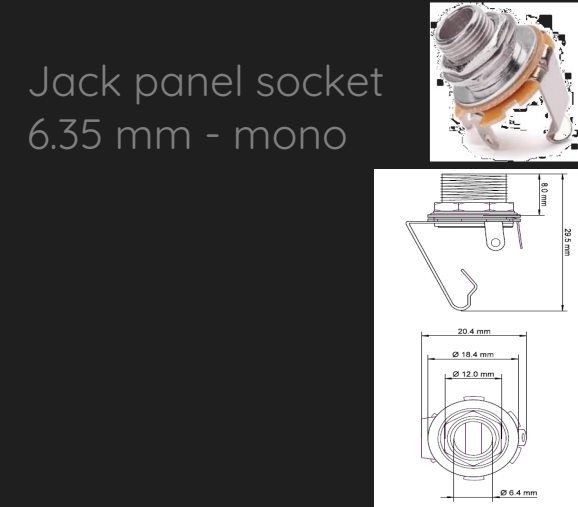
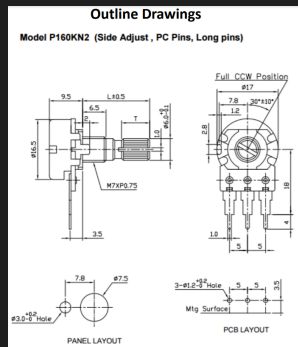
- Creating a PCB-like component motherboard with greater potential for individualization.
- Ensuring easy implementation through a plug-in system.
- Enhancing signal shielding by implementing AME coaxial lines.
- Exploring direct printing of capacitors for precise audio filter tuning.
- However, a challenge remains as the components are large in size.



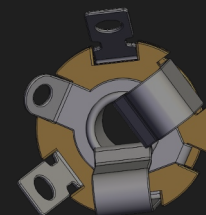
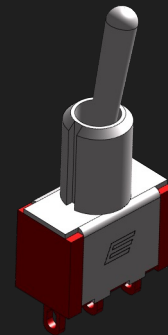
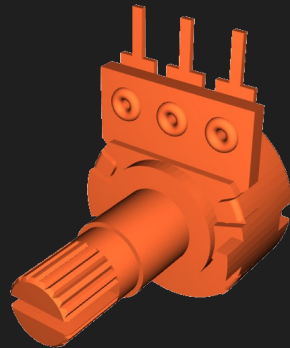
For more Inspiration see the Gibson quick connect concept

Before AMEfication let us learn traditionally

COTs components for procurement



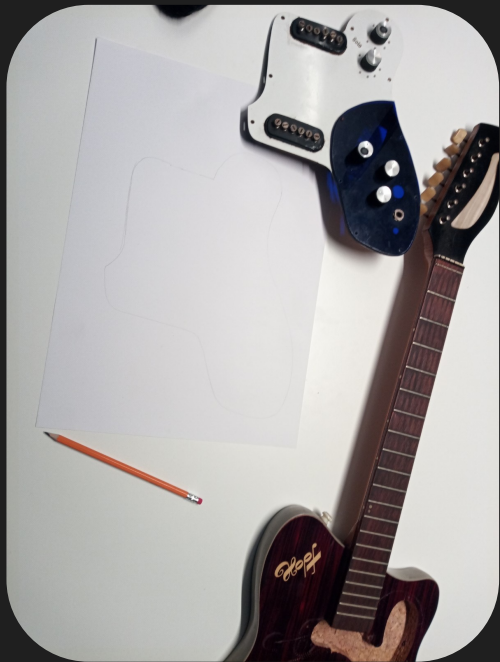
3D-Design's for the components



05 Keeping the Old Pickguard Style



The need for a new pickguard arises while striving to maintain a close resemblance to the original, including screw hole placement.



The need for a new pickguard arises while striving to maintain a close resemblance to the original, including screw hole placement.



06 Does it Suit the Guitar Style?

A visual check of how it could look



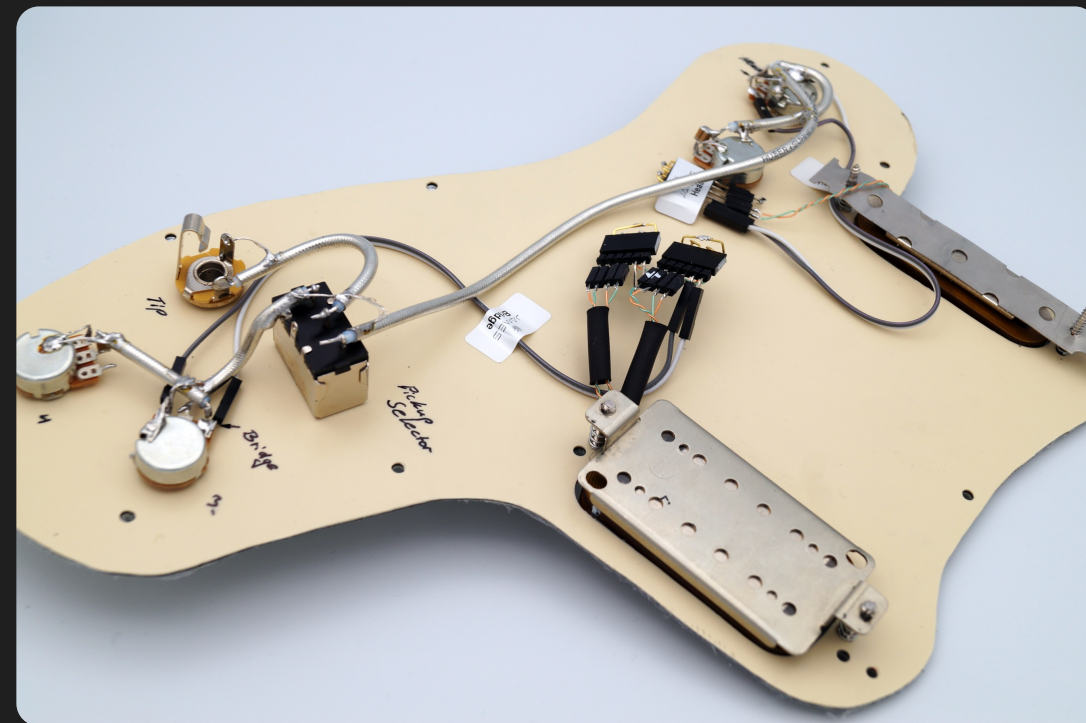
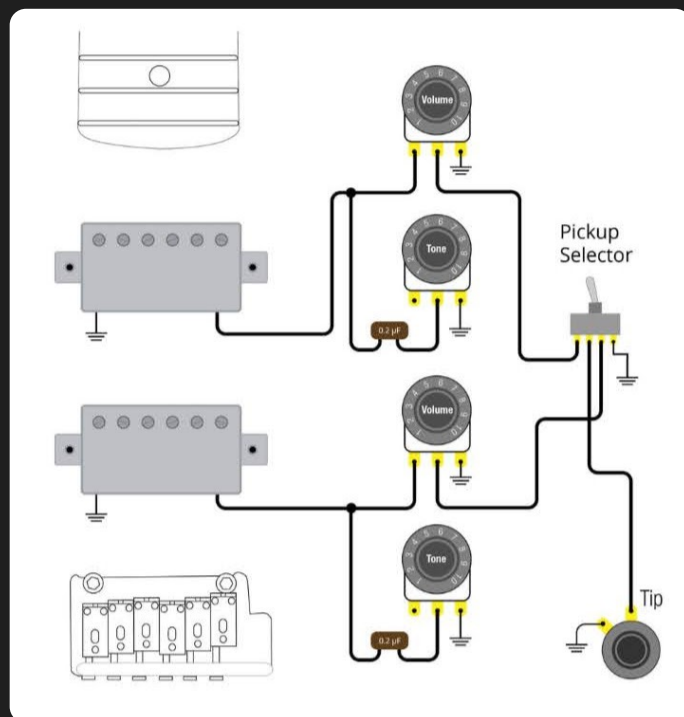
How it could look



07 Conventional Wiring

- To have a conventional reference design
- The AMEfication of a Pickguard wiring will happen in the next step of this Episode

Les Paul / Gibson Style

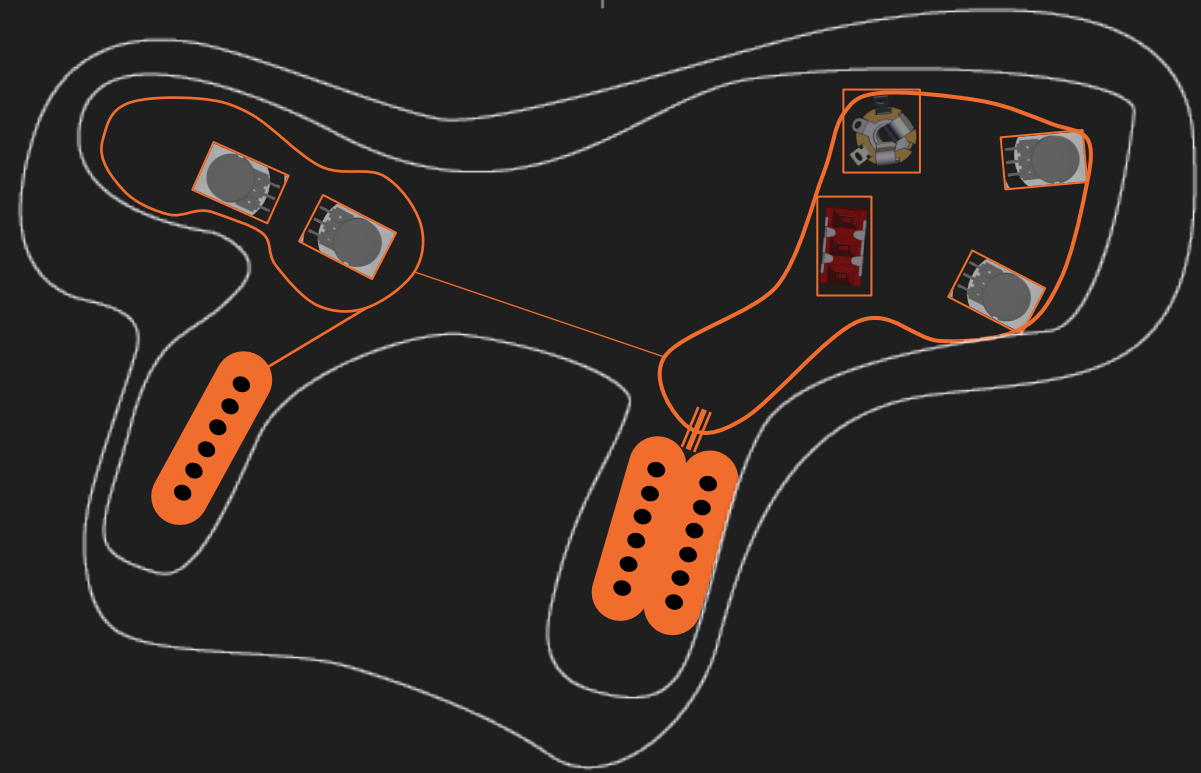


- Utilized antenna cabling material (semi-flex) for proper shielding
- Conducted manual wiring
- Faced the challenge of fitting numerous cables within the limited space of the old HOPF
- Primary focus was on validating the functionality of the design

08 AMEFication Recap

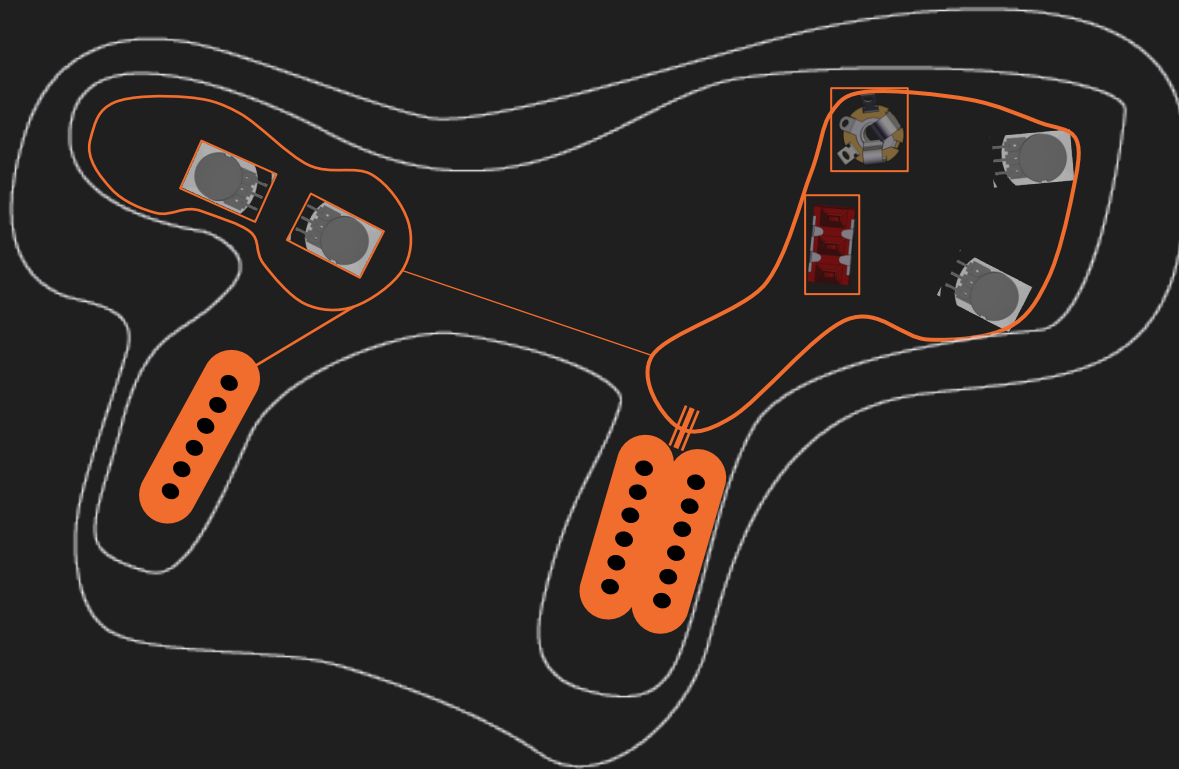
- Conventional Pickguard confirmed to work with heavy antenna cabling
- Transitioning towards a smarter approach: embracing the AME-way
- Aim to eliminate the need for cumbersome cabling
- Due to significant distance between head and bridge audio control, separate AME-boards will be implemented

Inspiration
Gibson quick connect

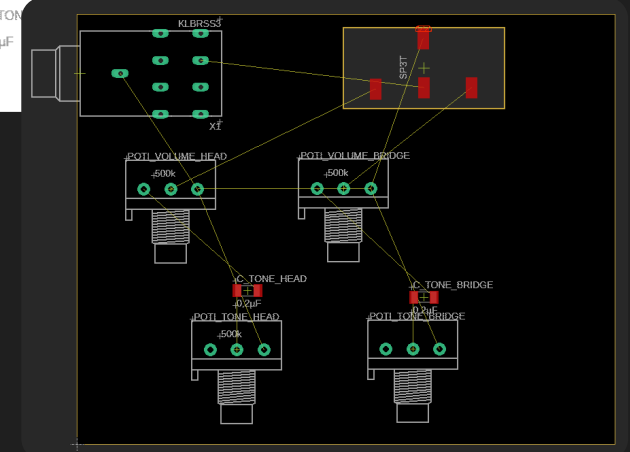
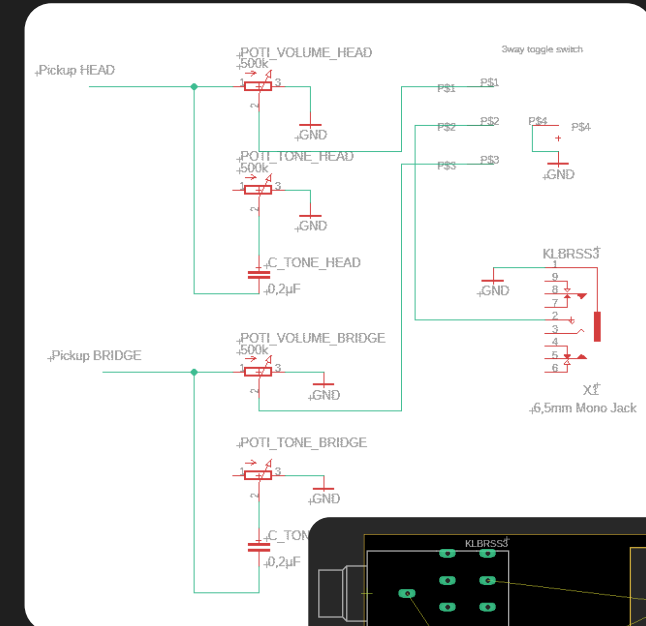


09 Next Steps of AMEfication

No activities have commenced at the moment.



Abstract Schematic and Layout





J.A.M.E.S

See you next episode

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