

# APEX BLACKGUARD INSTALLATION GUIDE

Thank you for purchasing Tonerider Apex Blackguard pickups.

## CAPACITOR & POTENTIOMETER VALUES

Apex Blackguard pickups are designed and tested using 250k potentiometers to ensure they drop into the majority of guitars without further modification. Using 500k pots is possible, and will result in a slightly brighter tone than 250k pots.

A range of capacitors can be used and the choice depends on the player. A 0.022uf or 0.033uf capacitor will roll off a good amount of treble when engaged and is a good choice for the modern player. Larger caps such as 0.047uf or 0.1uf will roll off more treble and upper mids, and allow for a dark, jazzy sound.

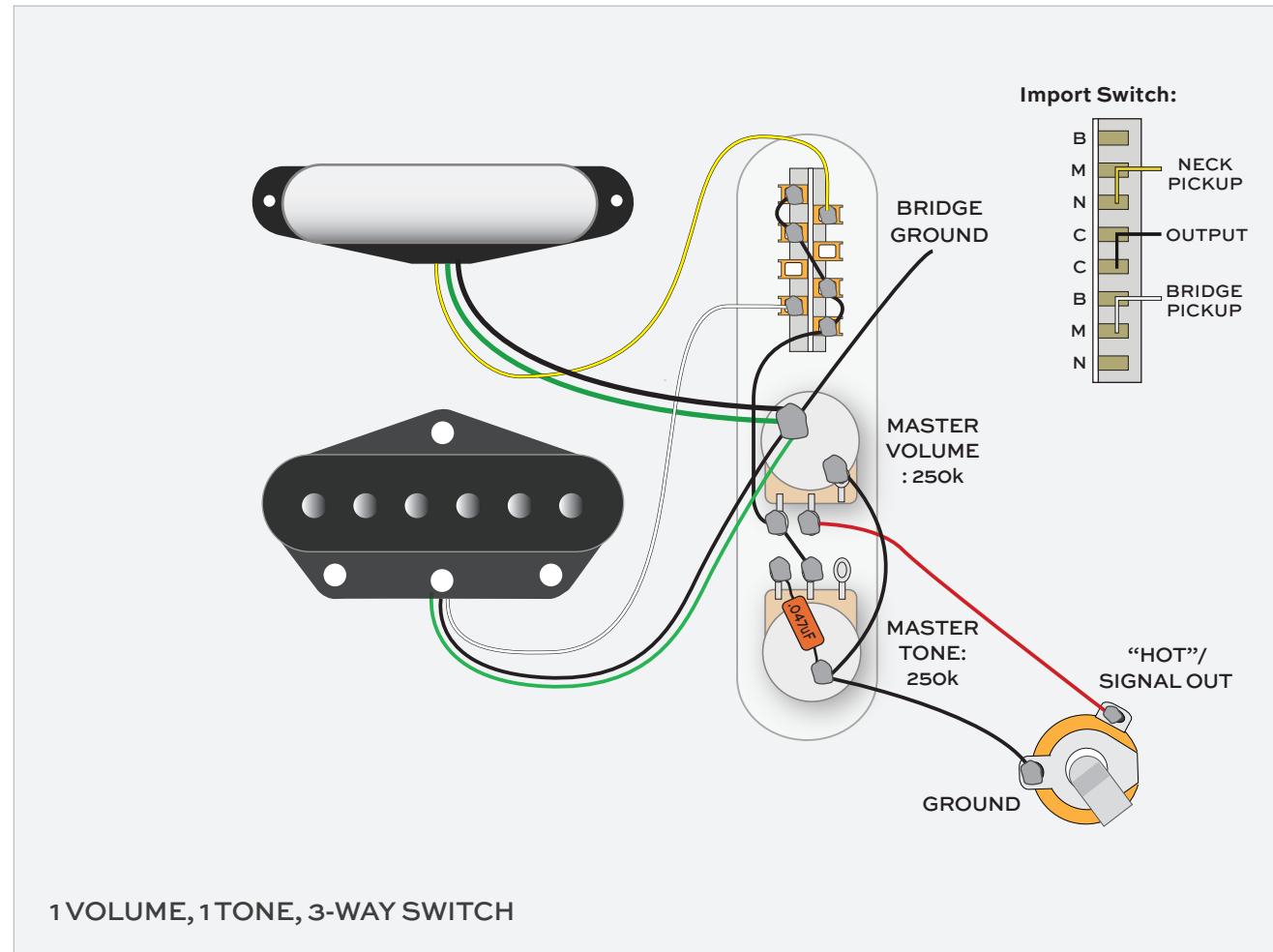
## QUICK INSTALLATION GUIDE

The neck pickup can be mounted directly to the guitar body or to a pickguard. We have included two wood screws to mount the pickup to the body of the guitar, and machine screws (#4-40) for pickguard mounting.

The bridge pickup should be mounted to the bridge plate using the three panhead machine screws (#6-32) provided.

The **WHITE** and **YELLOW** pickup wires from the pickups should be soldered to the correct lugs of the 5-way switch shown in the diagram shown.

The **BLACK & GREEN** pickup wires should be soldered to a ground point, normally the back of the volume pot. Pressing the strings against the high frets, set the bridge pickup height to approximately 2mm from the strings, and the neck pickup approximately 3mm. Adjust the individual pickups for treble and bass balance, and overall volume balance between the neck and bridge pickups.



## TROUBLESHOOTING OUT-OF-PHASE SOUNDS

Apex Blackguard pickups are designed to work in phase with Tonerider strat pickups, humbuckers and P90s. In case of these pickups being out-of the phase with any other manufacturers' pickups, phase can be reversed by swapping the white/yellow wire and the black wire.

The green wire connects all metal parts of the pickup and should always be connected to a ground point.

## FURTHER INFORMATION

If you have any questions, please Email us at [service@tonerider.com](mailto:service@tonerider.com) or [usa@tonerider.com](mailto:usa@tonerider.com) or give us a call on:

+44 1227 469414 (UK) +1 (218) 260-4176 (USA)

More wiring guides are available for download at [www.tonerider.com](http://www.tonerider.com).