

KIT-TE-45

Tools needed

Small Phillips screwdriver

Big Phillips screwdriver

Soldering iron and solder

Wrench

Hammer

This model is used on more recordings than any other electric guitar. The direct and versatile sound is yours after you have built this TE-45 kit. The mahogany body has a beautiful ash veneer on top. The top has a luxurious dark ABS binding. The fit of the maple neck with pau ferro fingerboard is perfect. All ingredients for hours of inspiration. The neck is already fitted with frets and the neck and body are already aligned. All parts are included in the package such as pickups, screws, potentiometers, switches, tuners and strings. Furthermore you can of course enjoy them with paint and/or specify the colour or gloss you want. If you wish to continue viewing the wood grain, then the clear coat is an excellent choice to emphasize the grain of the wood. The DIY guitar Boston is a fun, easy and creative way to create your own unique guitar. The headstock is a so called half-paddle head, a blank canvas ready to be formed to your own ideas!

body : mahogany with ash veneer top

neck : USA maple

fingerboard : pau ferro

pickups : 2 x single coil

hardware : chrome

Wood

First shape the headstock to your liking. Use files or saws and sanding paper to make your headstock design neat and tidy. Make sure you remove all saw and sanding marks. This will be your signature on this guitar, take your time!

Sanding and finishing

Take the loaded pickguard off your guitar. Sand the body and neck with 320 grit dry sanding paper. After this step, use masking tape to guard those parts that you don't want to colour/finish. Always follow the instructions on your finishing product, be it staining, spraying with aerosol cans or finishing in a spraying booth. After the body and neck have been finished in the colour and gloss of your choice, and you have polished your guitar to the desired result, it's time to fit the neck to the body.

The base of each guitar is the wood construction. The neck pocket in our kits is perfect.

There is no need to work the neck pocket other than maybe a simple sanding. Slide the neck into the pocket and take the neckplate and the four big screws to fasten the neck.

Electronics

The pickguard of your TE-45 has been fit with the neck pickup already. You only need to thread the output wires to the appropriate cavity and solder them to the appropriate spot on the switch. Now solder an earth wire to the top of the volume potentiometer and thread that wire into the channel that leads to the spot underneath the bridge. This is an earth connection to prevent earth hum. Remove some of the plastic insulation so the wire is metal to metal with the bridge.

The bridge pickup has been fixed to the bridge plate already. Thread that pickup's wires to the electronic cavity and solder to the switch. Install the bridge. The three screw holes are already predrilled into the body. Solder both output wires (live and earth) to the output chassis.

Check if both pickups and both the volume control and tone control work accordingly. If everything works, you can close the electronic cavity and output cavity.

## Hardware

Install the machine heads. Don't forget the washers. Before drilling or punching a hole to secure the machine heads, please align the machine heads on the back, so it looks neat and tidy. Now fasten all screws and nuts. A loose washer or nut can cause unwanted resonance.

If wanted, you can install the string retainer to keep the strings under the correct angle at the nut.

Put the strings on and start tuning the guitar.

Now the guitar needs a set up. Once tuned to pitch, check the neck curve and adjust to your preference with the trussrod key. Check the frets for level. If the frets are not level enough to your liking, level and polish the frets. Now adjust the string height so the guitar plays comfortably all over the neck and there is no string buzz. The string height at the tremolo unit is set using the supplied small Allen wrench. The string height at the nut is set by filing the string slots to the desired height.

Finish setting up with adjusting the intonation. Now you are ready. You have built your TE-45 ! Have fun playing it!

