

Frequently Asked Questions Changing the Voltage Input From 115V to 220V

Date Raised: June 2002

Safe practises should always be employed to ensure the Health and Safety of yourself, employees and customers (if applicable) Refer to product manuals, exploded drawings and our website if further assistance is required, or contact us on service@teknatool.com

Date Amended:

Warning this procedure should only be under taken by a suitably qualified person, Electricity is a hazard, before connection to a wall socket the work needs to be inspected and certified by a suitably qualified person.

Question: I currently have a DVR3000 that is running off my 115V supply. I have 220V available. Can I safely and efficiently deliver 220V to the DVR ?

Answer: Yes. By removing a small jumper the unit will efficiently run on 220V and a gain in power can be achieved.

1. Ensure that the power is off and that the plug is disconnected from the wall.

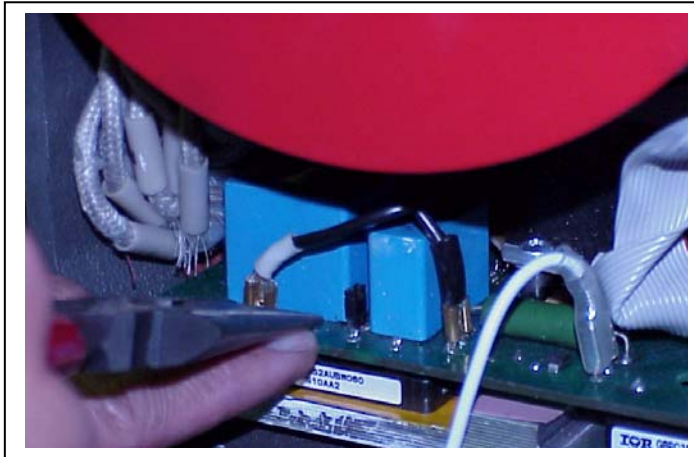


2. Allow minimum of 3 minutes discharging time for capacitors before opening rear panel.

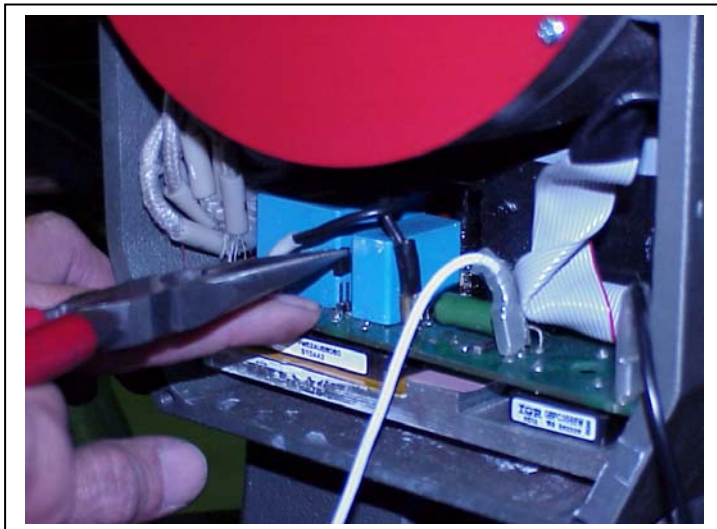


3. Remove the rear lower switch panel. This will expose the main control panel in the lower compartment.

4. Use a pair of long nose pliers and earth yourself first by momentarily placing a hand on the lathe casting. This will remove any static electricity that could damage sensitive components. Visually locate the jumper. It will be between the 2 square blue capacitors.



5. Carefully place your index finger on the edge of the board avoiding any solder points. Using the top of your finger as a guide run the pliers along and lightly grab the jumper in the pliers. Do not squeeze too tight as you may crush the jumper. This is important as the jumper will need to be placed back should you want to run 115V again.



6. Reattach rear guard ensuring all wiring is captured inside casting. Be careful as the back of the fuse and switch protrude out and should not hit any components as you position the guard in place.
7. Securely fasten the guard with the 4 cap screws
8. Change the plug to a suitable 220V type either for 15 or 20 amp plug fitting.

Note: Your 220V power supply may be such that the voltage is split 110 V down each the phase and neutral. If so, then the neutral supply should be switched also, which requires the switch to be replaced with a double pole, single throw switch (DPST). For more information in the USA please contact our service centre.

If the unit is plugged into a 115 volt outlet with the jumper now set to 220v , it will not damage the electronics and the motor will still run , but it will not have the same performance , and may show error – “current overload” under higher loadings.

9. *The unit can now run 220 V.*