

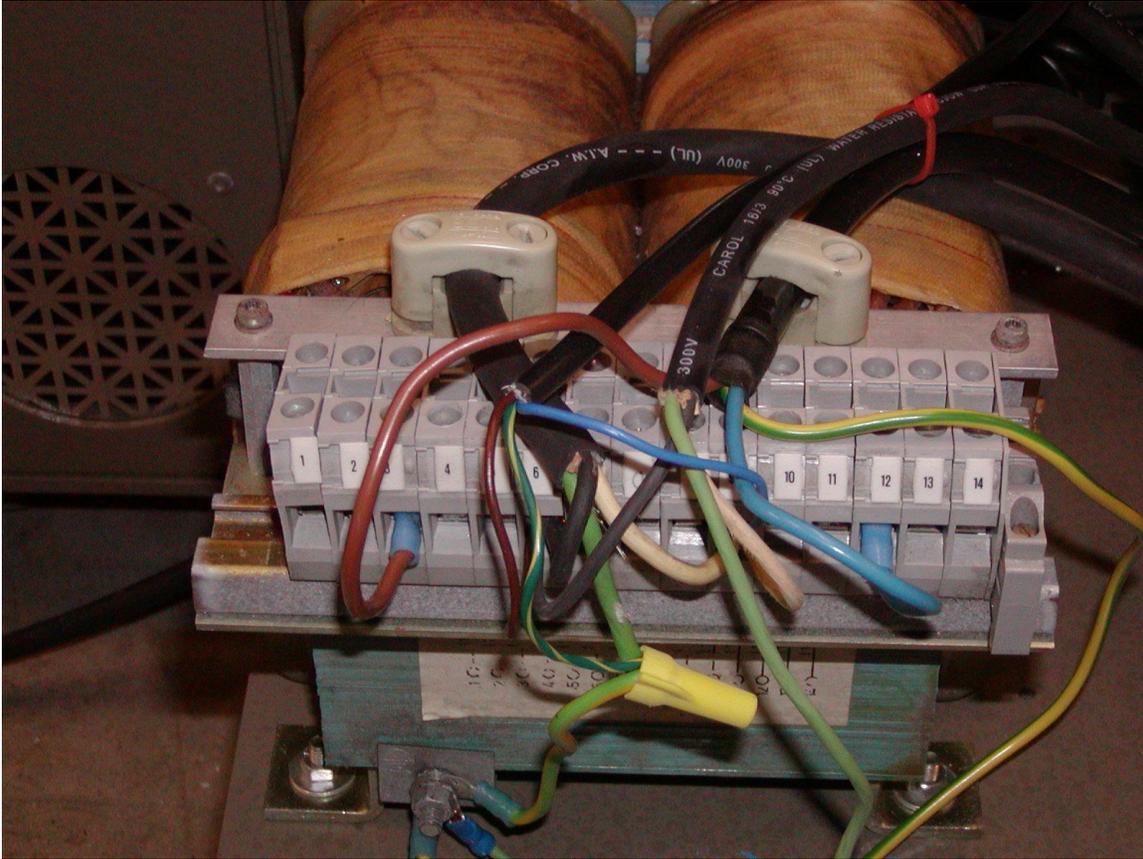
VIDEO-AUTO DIE BONDER MODEL 8030 A



Transformer Configuration Manual

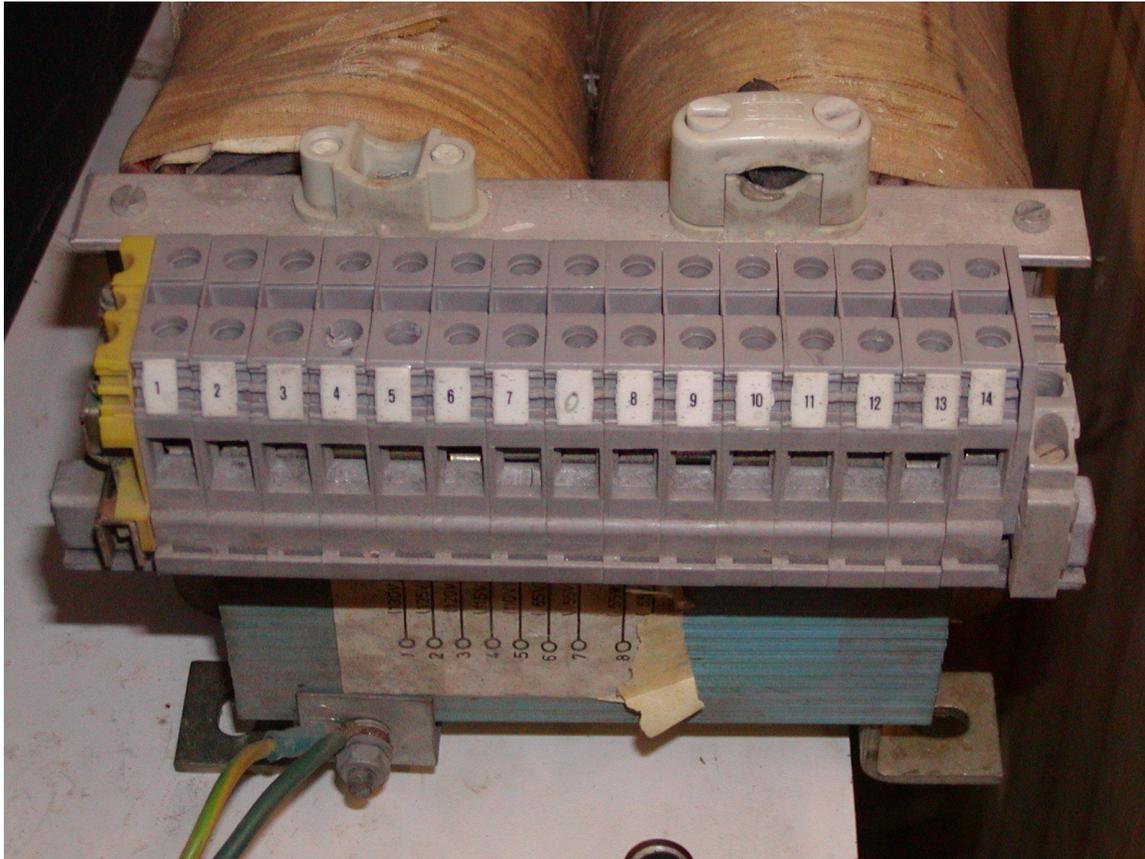
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Transformer Configuration for 115VAC input 223VAC Out.



In above picture, the input 115VAC is coming in on terminals 6 and 9. The 220VAC out is going out on 3 and 12.

For clarity, here is the transformer with the leads removed.



The important voltage to check, is the output voltage. Be sure to have the circuit breakers turned off on the front of the Foton.

Warning: The voltages can be deadly; please be sure to unplug the machine before changing taps.

The best way to configure the transformer is by removing one of the output wires going to the die bonder. Then if you're in a country with voltage between 105 and 125 volts, place the incoming power to taps 6 and 9. Then apply power, and measure the voltage progressively moving out from the center, until a voltage of approximately 220 to 225 volts is found (in the first picture this was 3 and 12). Disconnect the main power to the transformer and insert the leads.

Re apply power, check the voltage again at the two secondary leads going to the bonder. Verify the 220-225 volts.

Then turn on the circuit breakers, and check the 70 vdc power supply output from the test points on front of the transformers in the right hand drawer.

It is very important that the 70VDC transformer voltages be between 70 and 72 VDC. The Foton driver cards have a circuit that will turn off the card between 65 and 66 volts on the low side, and 74 and above on the high side.

If the voltage is a bit low, turn off the Foton circuit breakers, disconnect the incoming power and move one tap out on the secondary. Example, if the secondary is on 3 and 12, then move only the tap from 12 to 13. Each time you move the secondary tap, it increases or decreases the secondary voltage by 5 volts. If you move the primary tap, it increases or decreases the secondary voltage by 10 volts. The same is applicable if you need to reduce the voltage, move the tap towards the center one tap at a time.

If plant voltages are not stable, it is recommended to use an auto transformer that can maintain a constant voltage, or have a 220V main supplied to the Foton. In the case of using 220VAC you will move the output supply to the Foton, to almost the same terminals as the incoming voltage. Example: input voltage of 205V supply voltage coming in on 5 and 10, output voltage on 5 and 12. This would increase the output voltage to around 225 volts.

If you have any questions, please feel free to contact us via email or telephone.