

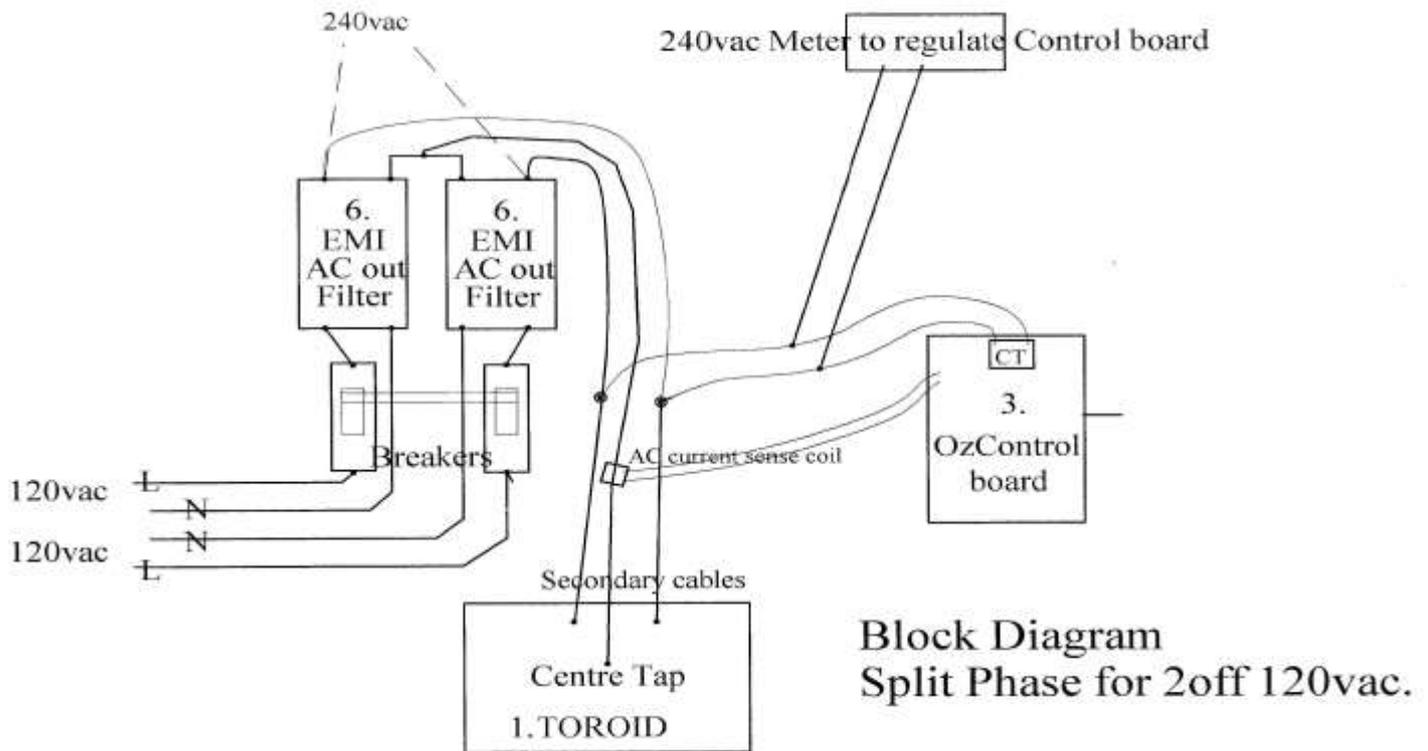
Chapter 6, OzInverter for the USA, 60HZ 120vac.

The Control board should be the 60Hz board.

The Control board still handles and regulates a 240vac voltage from the secondary windings of the toroid.

We still wind the toroid for 240vac but Remember to tap the secondary windings at half the windings, ie, 120 windings is halved so at 60 windings take a tap/connection. This will need to be done on all 4 of the 120 windings.

Sometimes its easier to scrape the insulation of the winding and wrap the tap around the winding and solder. However, please ensure the solder joint is robust and properly done. Please also ensure that each of the 4 taps are sufficiently insulated.



NOTE, When testing the secondary windings for the correct DC output for the control board, where we need to see between 28vac and 30vac, to achieve this, the secondary winding will require 240vac as page 27.

The control board has an over current sense coil this will need fitting on the centre tap that will become the neutral.

The control board needs to see the full secondary windings 240vac for regulating the output ac voltage. If the secondary windings and the centre are tap correct the when the control board 240vac Meter says 240vac when using the voltage 500r trimmer, then each split phase should be 120vac.

The split phase will require 8 off EMI FILTERS as shown in the book, and these will require wiring up as above Split Phase Block Diagram.

PLEASE fit breakers as shown above and photo right on the LIVE cables. PLEASE seek assistance from a competent electrician regards the breakers and your local safety codes. As the photo right, I prefer to have the breakers physically tied so if the breaker activates on one of the 120vac split phases it also shuts down the other split phase.

