

BEGIN

www.E2CRE8.be - Brainbox.Arduino - by Bart Huyskens  
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This program configures the 4 power output pins (PC6, PD7, PB5, PB6) to drive a stepper motor  
We will drive all the 4 pins step by step in the code - with the usage of a stepper motor driver function

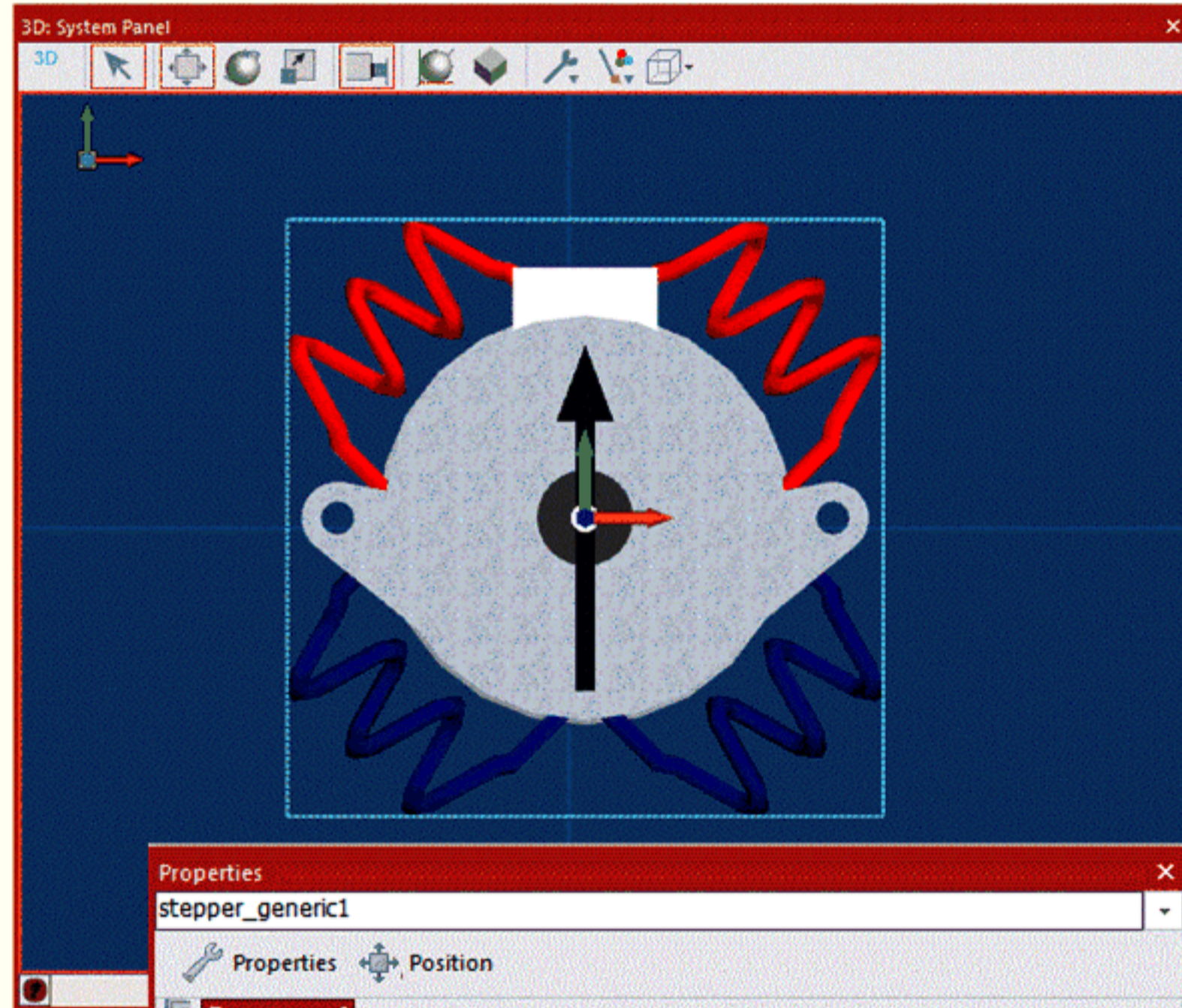
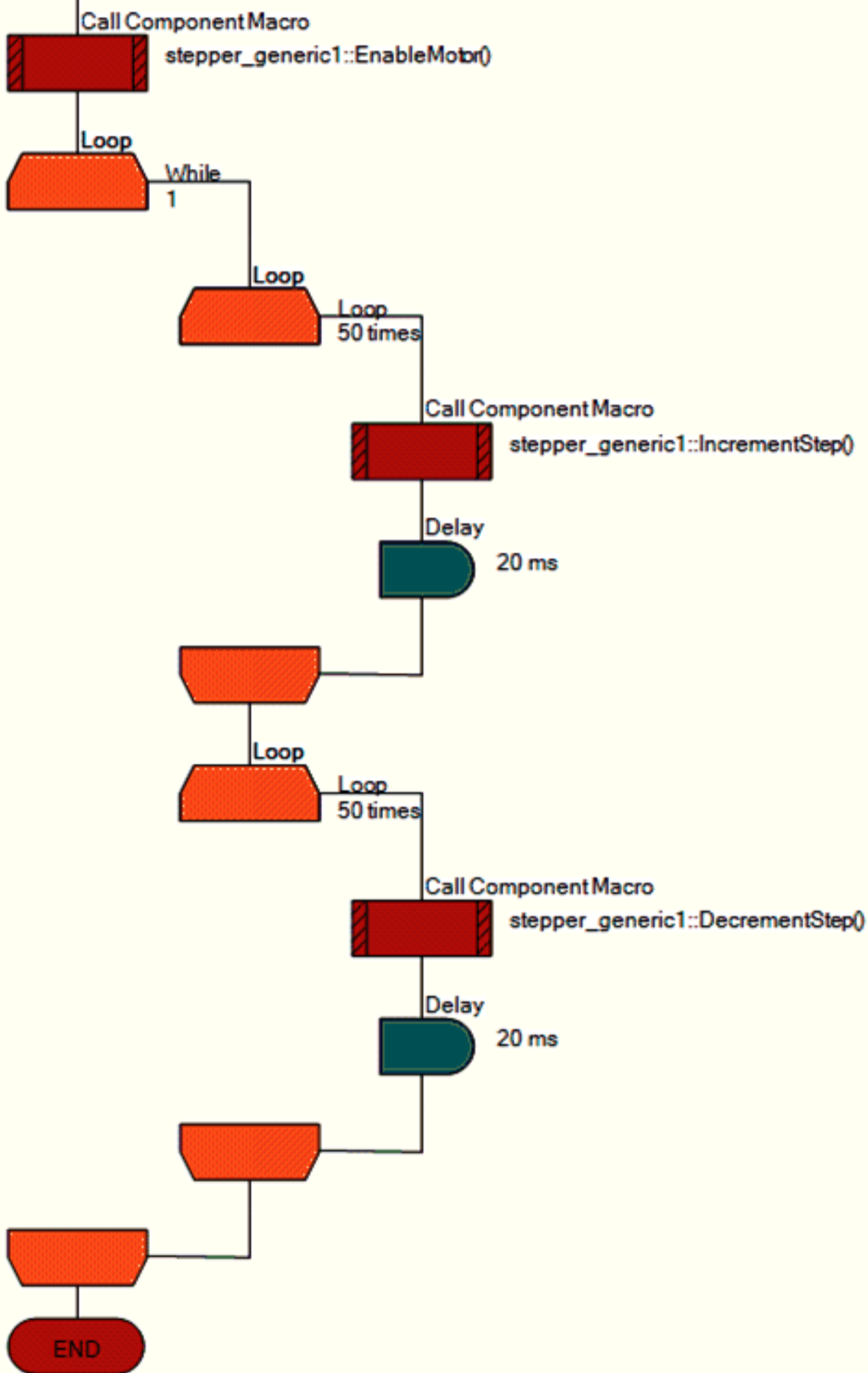
In the properties screen of FC6 - you need to connect the 4 pins of the stepper,  
select bipolar or unipolar and select the step sequence

Connect Phase 1 (Coil 1&2) of the stepper motor between PC6 and PD7  
Connect Phase 2 (Coil 3&4) of the stepper motor between PB5 and PB6

Look at the worksheet 0-500 on how stepper motors should be connected  
Be aware that the maximum output current of 600mA for these 4 power output pins may not be exceeded.

This program makes the stepper motor turn 50 steps forward and then 50 steps backwards

Be aware that the voltage at these 4 power output pins needs to be set with jumper 2



Properties

stepper\_generic1

Properties Position

**Component**

- Handle stepper\_generic1
- Type Stepper - Generic

**Properties**

- Connections
  - Coil 1 \$PORTC.6
  - Coil 2 \$PORTD.7
  - Coil 3 \$PORTB.5
  - Coil 4 \$PORTB.6
- Motor Setup
  - Windi... bipolar/unipolar +ve
  - Step ... Full Step
  - Steps... 100
- Simulation
  - Show... Yes
  - Show... Yes
- Link to...
  - Object Unconnected
  - Gear ... 1.000000
  - X Line... 0.000000
  - Y Line... 0.000000
  - Z Line... 0.000000