

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

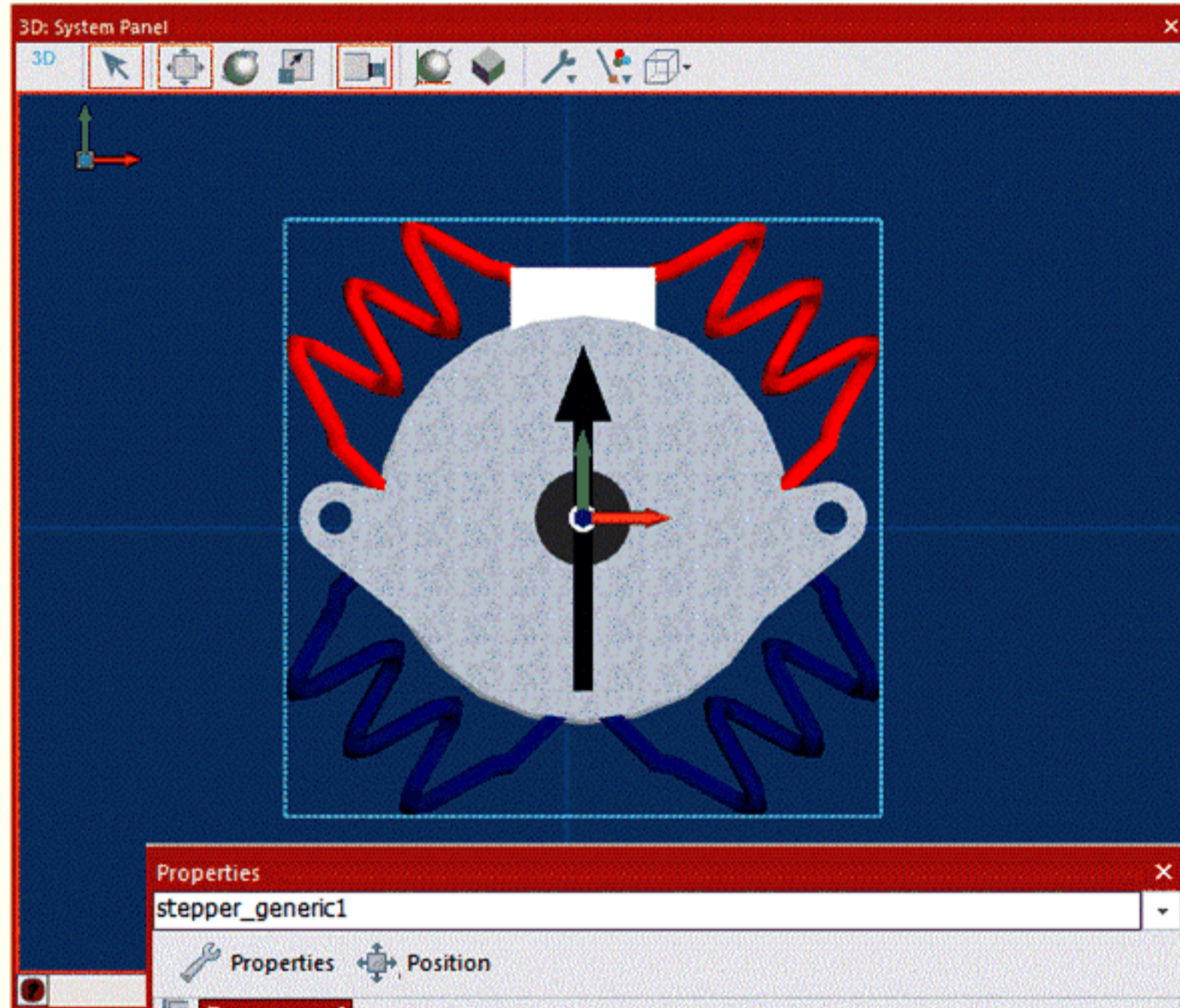
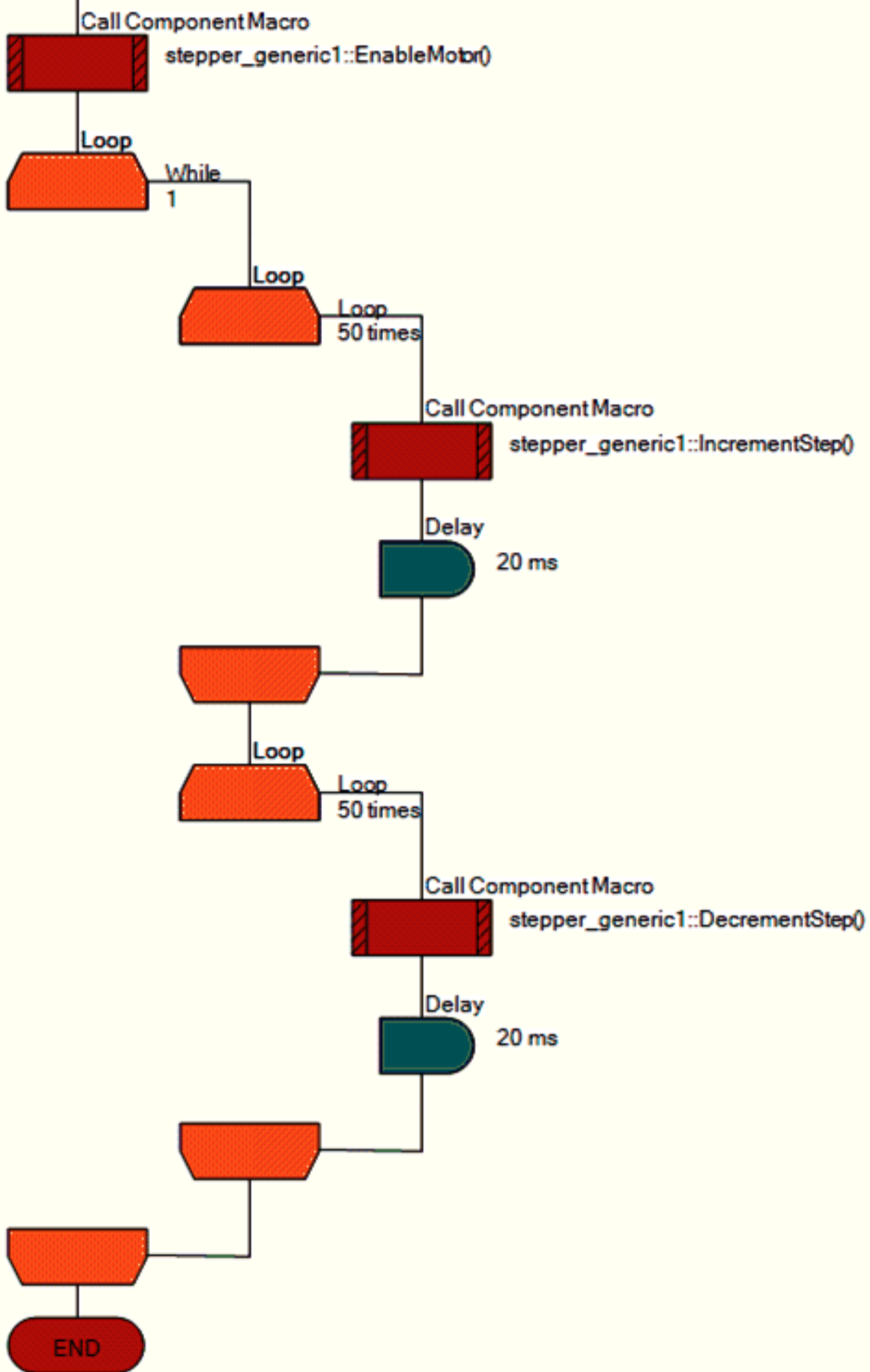
In the properties screen of FC6 - you need to connect the 4 pins of the stepper,
select bipolar or unipolar and select the step sequence

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