START // Binary search algorithm to determine ChA (Fill and

// Drain) and ChB(Fill and Drain) Resistor Switch levels.

X = SPEChi

Y = SPEClo

Nloops = 1

Loop: LEVELGuess = (X + Y)/2

Drive Level to LEVELGuess

Wait T seconds

Has R switched to Next level?

If Yes then

X = X

Y = LEVELGuess

Else

X = LEVELGuess

Y = Y

Is abs(X - Y) < error? OR has Nloops > 7?

Goto Exit

Else

Nloops = Nloops +1

Goto Loop

Exit:

If Nloops > 7 then

Did not converge err handler

ELSE

Log Levelswitch as (X+Y)/2

END