Current State	Event			Next State
INIT	k_pacingMode == 0 or 2 or 4			A_CHARGING
	k_pacingMode == 1 or 3			V_CHARGING
	NOT(k_pacingMode == 0 or 1 or 2 or 3 or 4 or 5)			---
A_CHARGING	m_pushButton == true			A_CHARGING
	m_pushButton == false			---
	k_pacingMode == 0	After(k_atrPaceDelay)		A_PACING
		NOT(After(k_atrPaceDelay))		---
	k_pacingMode == 1			V_CHARGING
	k_pacingMode == 2	m_atrCMPDetect == true	After(k_arpDelay)	A_CHARGING
			NOT(After(k_arpDelay))	---
		m_atrCMPDetect == false		---
	k_pacingMode == 3			V_CHARGING
	k_pacingMode == 4		After(k_pacingAVDelay)	V_PACING
			NOT(After(k_pacingAVDelay))	---
A_PACING	After(k_atrPulseWidth)			A_CHARGING
	NOT(After(k_atrPulseWidth))			---
V_CHARGING	m_pushButton == true			V_CHARGING
	m_pushButton == false			---
	k_pacingMode == 0			A_CHARGING
	k_pacingMode == 1	After(k_ventPaceDelay)		V_PACING
		NOT(After(k_ventPaceDelay))		---
	k_pacingMode == 2			A_CHARGING
	k_pacingMode == 3	m_ventCMPDetect == true	After(k_vrpDelay)	V_CHARGING
			NOT(After(k_vrpDelay))	---
		m_ventCMPDetect == false		---
	k_pacingMode == 4		After(k_atrialEscapeInterval)	A_PACING
			NOT(After(k_atrialEscapeInterval))	---
V_PACING	After(k_ventPulseWidth)			V_CHARGING
	NOT(After(k_ventPulseWidth))			---

INIT

ENTRY:

%Open all switches so no current flow

A_CHARGING

ENTRY:

%Charge the capacitor and rectify the atrial pace

A_PACING

ENTRY:

%Pace the atrium

V_CHARGING

ENTRY:

%Charge the capacitor and rectify the ventricular pace

V_PACING

ENTRY:

%Pace the ventricle

k_pacingAVDelay {uint16} – p_fixedAVDelay – p_atrPulseWidth

K_atrialEscapeInterval {uint16} – ms/beat – k_pacingAVDelay – p_ventPulseWidth