AA-908 Power-On Sequence
Version 5.0L  Jan 17, 2005

Power On

Init All
init ports
init local (volatile) vars
init scan vars
init RAM locations of all EEPROM vars (changeable vars & sticky vars like cal data & DDSchip)
init LCD
if Encoder_PB Pressed
  clear EEPROM (mostly a debugging feature)
display "initializing"
turn Busy LED ON

Get EEPROM
if EEPROM is blank (i.e., if 0800=FF)
  Write EEPROM page 0 with vars previously init'd
  Write EEPROM page 1 with sticky vars previously init'd (cal data & DDSchip)
else
  Load EEPROM page 0 to RAM
  Load EEPROM page 1 to RAM

  turn Busy LED OFF
  init Timers
  Init DDS
  Init AF vars

Turn on interrupts
  (allows heartbeat LED on HC908 card and background processing for reactance sign computation, when Sleep PB pressed)

User Main:
display battery voltage
display version number
if ver_num changed with new load
display "upadting memory"
init RAM locations of all EEPROM vars (changeable vars & sticky vars like cal data & DDSchip)
turn Busy LED ON
Write EEPROM page 0 with vars from RAM
Write EEPROM page 1 with sticky vars
turn Busy LED OFF

Jmp to Impedance Mode