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  ' 10F206--- 27FEB07 - Testing for WHAT IS LOW SLEEP POWER
'****************************************************************
@ DEVICE INTRC_OSC,WDT_ON,MCLR_OFF,PROTECT_OFF
 DEFINE NO CLRWDT 1
' ----------
CMCON0=%00000001 ' Comparator Disabled for PIC10F206 only

'FLAGS=0
TRISIO=%11111111 ' All pins Input
STATUS=%00000000 '  not using any
'option_reg.5=0  'This bit is to keep pin GPIO.2 from timing out
OSCCAL.0=0 '

GPIO.0=0  'Output to Mosfet  motor
GPIO.1=0  'output to test cycle LED
GPIO.2=0  ' on a 8 pin chip
gpio.3=0  ' not used
Mosfet VAR GPIO.0   'Motor name pin
Switch VAR GPIO.2   'not used
EMPTY VAR GPIO.0   'No used
ledpulse VAR GPIO.1  'led to GPIO.3 to see when program cycled.


'-----------------------------------------------------------------------
x VAR BYTE
y VAR BYTE
z VAR BYTE
counter VAR BYTE


 x=0
 y=0
 z=0
 counter = 0

'-----------------------------------------------------------------------

'-------------------------------------------------------------------------
Main:
FOR x = 1 TO 5     'This section just pulses an led for 5 times and
 HIGH ledpulse     'does it for seconds each. .243 ma avg in low ledpulse
 PAUSE 40          'this cycle pulls about 4.5 milliamp
 LOW ledpulse
 PAUSE 2000
 NEXT x
 FOR x= 20 TO 40    'This section just drive as pager motor in a PWM
 HIGH Mosfet        'type style. It pulses about 54 ma USing FLuke 189
  PAUSE x           'Fast Max/Min Recording
  LOW Mosfet
  PAUSE 20
  NEXT x
@Sleep              'THis line I cannot tell  "tried @Sleep at the end of
                    'Program without any signs of change.
  HIGH ledpulse    ' This line pulls 3.9 ma avg
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  PAUSE 1000
  LOW ledpulse
  PAUSE 50
  NAP 7              'Nap pulls about 240 Uamp with Peaks between
  NAP 7              'each NAP statement of around 459 uAmps. or 3.98 ma
  NAP 7              'using Fluke MAX/Min recording.
  NAP 7
  NAP 7
  PAUSE 4000          'pause pulls 243.2 uAmps

  END                'end pulls 1.79 uAmps avg and 86.7 uAmps every couple
of
 'goto main           'three seconds.

 ' Trying to remove the 86 to 89 uAmp pulse every three seconds or so
after the
 'program has gone to sleep. The PBP END command is just a series of sleep
 'commands in a cycle per the manual. And END seems to work best for Low
Low
 'power. It was strange to see the Nap And Pause commands use close to the
same
 'amount of power while executing. There as a High pulse of current between
 'each nap7 command of around 459 uAMps.
 'I have modified the define NO CLRWDT  with 1 or 0 without any notice in
current
 'Besides the WDT waking up at the END statement, I guess my new meter is
 'not the best to test this MICRO. But it appears to be close since I get
1.7
 'to 2.3 uAmps at the END statement.
```