

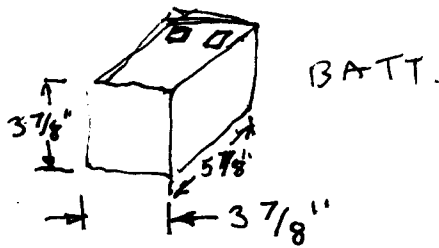
# BEVERLY HILLS NINJA

Type A behavior pattern: Pattern consisting primarily of high levels of competitiveness, time urgency, and hostility.

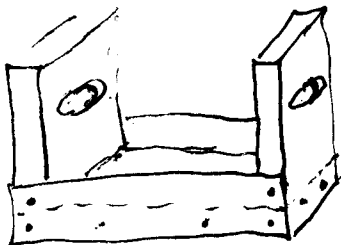
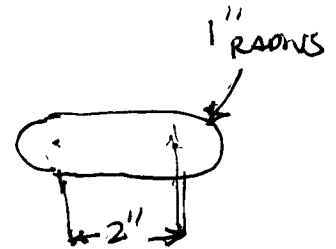
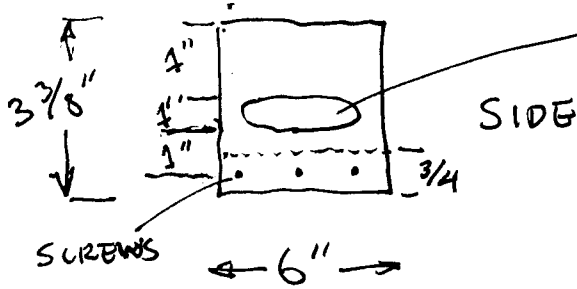
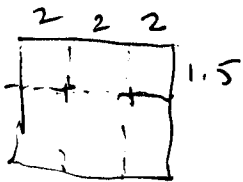
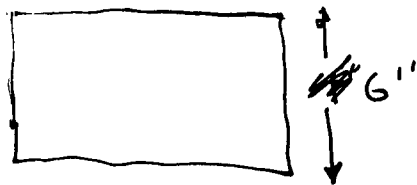
Type B behavior pattern: Pattern consisting of absence of characteristics associated with Type A pattern.

27 APR 13; Roderick.

FOR REALISTIC MEASUREMENT OF INDUCTORS, NEED A SOURCE THAT CAN PUT OUT 10A AVERAGE (40A PEAK). PC POWER SUPPLY INSUFFICIENT. TOO BAD DON'T HAVE OLD STORAGE SUPPLY. USE LEAD ACID BATTERIES. HAVE 2 OLD 12120 FROM ELECTRIC BIKE. SHOULD MAKE A CARRIER BOX.



BOTTOM

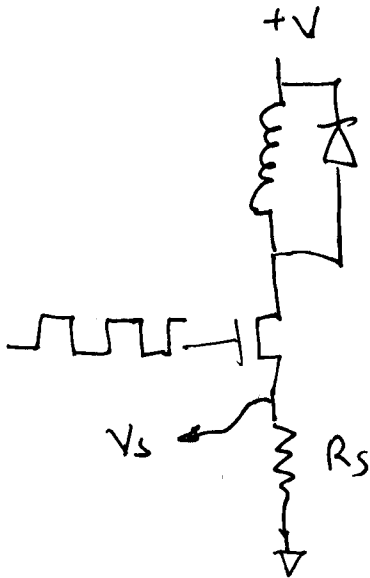


BATTERY WILL EXTEND OVER TOP

28 APR 13

Rodoriuk

FOR INDUCTANCE MEASUREMENT JIG, I HAD A DIODE  
ABSORBING THE ~~EX~~ ENERGY OF THE INDUCTOR.

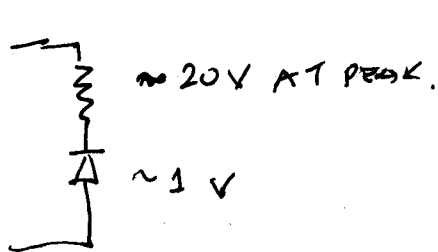


HOWEVER, UNDER A REALISTIC  
CONDITION, THAT DIODE WOULD  
BE DISSIPATING ~~TO~~ 200W OR SO.  
TOO MUCH.

DECREASING DUTY CYCLE ON SWITCH  
WOULD LOWER POWER DISSIPATION,  
BUT WOULD ALSO MAKE  $V_s$   
LOWER ON AVERAGE.

COULD LIMIT TEST TO (SAY) 1000 PULSES, AND  
STOP PULSES RIGHT AFTER TAKING ADC READING  
OF  $V_s$ .

OR COULD PUT A DUMP LOAD IN SERIES W/ DIODE.

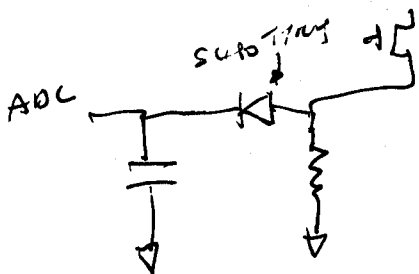


$$40A \quad R = \frac{E}{I} = \frac{20}{40} = 0.5 \Omega$$

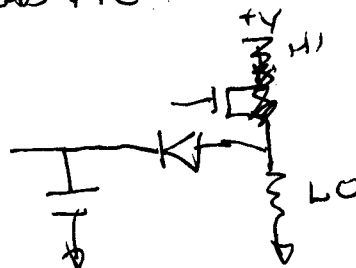
HOW ABOUT 20V AT AVERAGE?

$$\frac{20V}{10A} = 2 \Omega$$

PEAK READING IS STARTING TO LOOK GOOD AGAIN,



~~READ ATC~~ TEST CIRCUIT



PICAXE ~~FOR~~ ZIGBEE  
CAN BE START  
CURRENT IS  
MUCH LESS

"B148" 28-CENT 8 $\mu$ H INDUCTOR FROM HALTED.

HURRICANE ELECTRONICS LAB HL-KK110U/BC

WEB hurricaneelectronics.com SHOWS

HL-KK110U IS 10 $\mu$ H, 10A.

BUT ALSO SAY MINIMUM INDUCTANCE 6 $\mu$ H AT 10A.

R = 0.003 $\Omega$

OD = 1.2"

HT = 0.56"

WIRE SIZE = 0.075 — #14 + ENAMEL

76 INIT. PERM @ 10A 58% ←

COULD BE ISSUE,  
SATURATED AT 40A PEAK  
MAY NEED BIGGER CORE  
MIGHT HAVE TO WIND OWN

19 APR 13