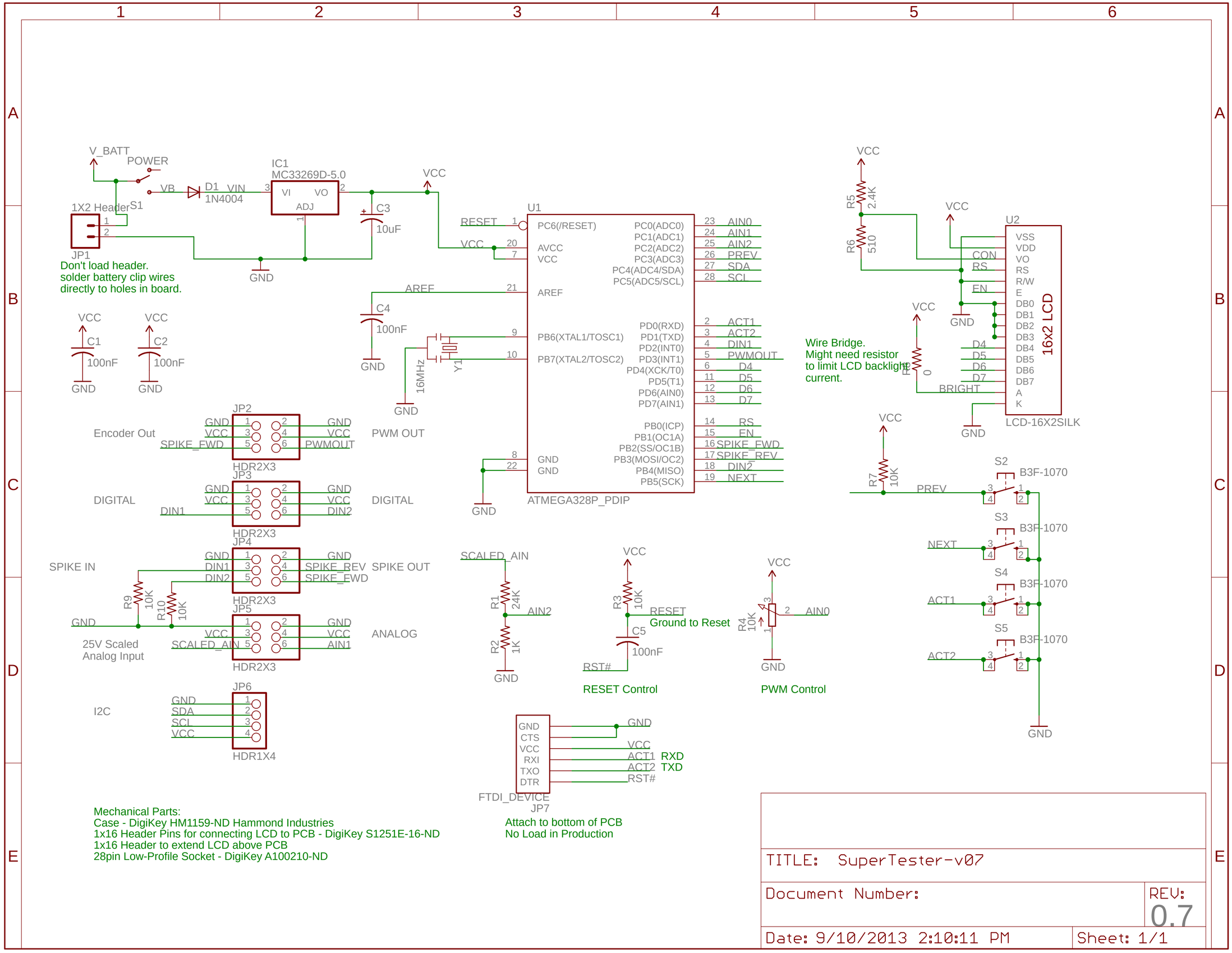
V_BATT
POWER
S1
VB
D1
1N4004
VIN
IC1
MC33269D-5.0
VI
VO
ADJ
VCC
C3
10uF
1X2 Header
JP1
Don't load header.
solder battery clip wires
directly to holes in board.
GND
C1
100nF
C2
100nF
C4
100nF
AREF
16MHz
Y1
U1
PC6(/RESET)
AVCC
VCC
AREF
PB6(XTAL1/TOSC1)
PB7(XTAL2/TOSC2)
GND
GND
PC0(ADC0)
PC1(ADC1)
PC2(ADC2)
PC3(ADC3)
PC4(ADC4/SDA)
PC5(ADC5/SCL)
PD0(RXD)
PD1(TXD)
PD2(INT0)
PD3(INT1)
PD4(XCK/T0)
PD5(T1)
PD6(AIN0)
PD7(AIN1)
PB0(ICP)
PB1(OC1A)
PB2(SS/OC1B)
PB3(MOSI/OC2)
PB4(MISO)
PB5(SCK)
ATMEGA328P_PDIP
RESET
AIN0
AIN1
AIN2
PREV
SDA
SCL
ACT1
ACT2
DIN1
PWMOUT
D4
D5
D6
D7
RS
EN
SPIKE_FWD
SPIKE_REV
DIN2
NEXT
JP2
Encoder Out
PWM OUT
HDR2X3
JP3
DIGITAL
DIGITAL
JP4
SPIKE IN
SPIKE OUT
R9
10K
R10
10K
JP5
25V Scaled
Analog Input
SCALED_AIN
ANALOG
JP6
I2C
SDA
HDR1X4
R5
2.4K
R6
510
U2
VSS
VDD
VO
RS
R/W
E
DB0
DB1
DB2
DB3
DB4
DB5
DB6
DB7
A
K
CON
16x2 LCD
LCD-16X2SILK
Wire Bridge.
Might need resistor
to limit LCD backlight
current.
R8
0
BRIGHT
R7
10K
S2
B3F-1070
S3
B3F-1070
S4
B3F-1070
S5
B3F-1070
R1
24K
R2
1K
R3
10K
C5
100nF
RST#
Ground to Reset
RESET Control
R4
10K
PWM Control
FTDI_DEVICE
JP7
CTS
RXI
TXO
DTR
RXD
TXD
Attach to bottom of PCB
No Load in Production
Mechanical Parts:
Case - DigiKey HM1159-ND Hammond Industries
1x16 Header Pins for connecting LCD to PCB - DigiKey S1251E-16-ND
1x16 Header to extend LCD above PCB
28pin Low-Profile Socket - DigiKey A100210-ND
TITLE: SuperTester-v07
Document Number:
REV: 0.7
Date: 9/10/2013 2:10:11 PM
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