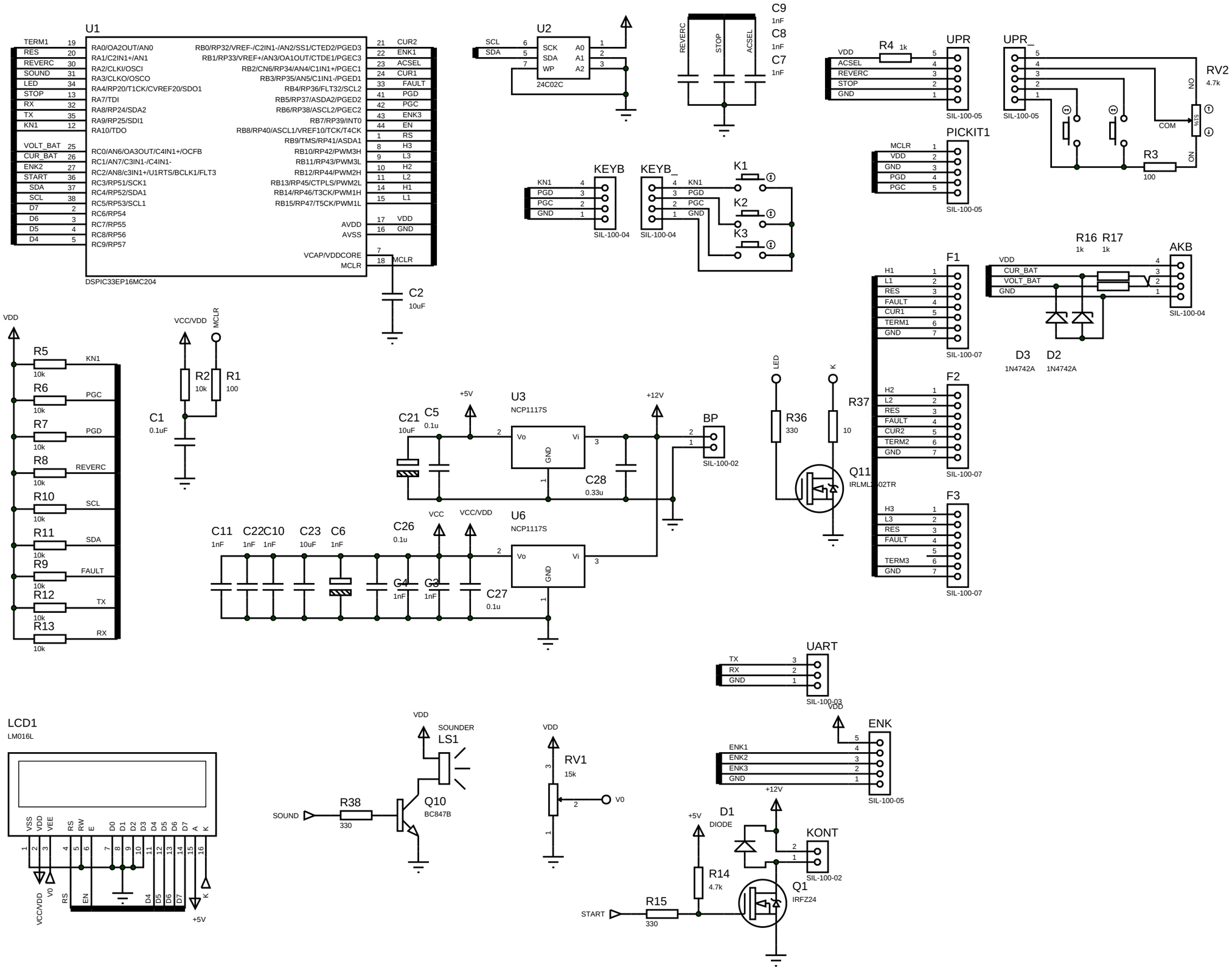
U1
DSPIC33EP16MC204
TERM1 19
RES 20
REVERC 30
SOUND 31
LED 34
STOP 13
RX 32
TX 35
KN1 12
VOLT_BAT 25
CUR_BAT 26
ENK2 27
START 36
SDA 37
SCL 38
D7 2
D6 3
D5 4
D4 5
RA0/OA2OUT/AN0
RA1/C2IN1+/AN1
RA2/CLKI/OSCI
RA3/CLKO/OSCO
RA4/RP20/T1CK/CVREF20/SDO1
RA7/TDI
RA8/RP24/SDA2
RA9/RP25/SDI1
RA10/TDO
RC0/AN6/OA3OUT/C4IN1+/OCFB
RC1/AN7/C3IN1-/C4IN1-
RC2/AN8/c3IN1+/U1RTS/BCLK1/FLT3
RC3/RP51/SCK1
RC4/RP52/SDA1
RC5/RP53/SCL1
RC6/RP54
RC7/RP55
RC8/RP56
RC9/RP57
RB0/RP32/VREF-/C2IN1-/AN2/SS1/CTED2/PGED3
RB1/RP33/VREF+/AN3/OA1OUT/CTDE1/PGEC3
RB2/CN6/RP34/AN4/C1IN1+/PGEC1
RB3/RP35/AN5/C1IN1-/PGED1
RB4/RP36/FLT32/SCL2
RB5/RP37/ASDA2/PGED2
RB6/RP38/ASCL2/PGEC2
RB7/RP39/INT0
RB8/RP40/ASCL1/VREF10/TCK/T4CK
RB9/TMS/RP41/ASDA1
RB10/RP42/PWM3H
RB11/RP43/PWM3L
RB12/RP44/PWM2H
RB13/RP45/CTPLS/PWM2L
RB14/RP46/T3CK/PWM1H
RB15/RP47/T5CK/PWM1L
AVDD
AVSS
VCAP/VDDCORE
MCLR
21 CUR2
22 ENK1
23 ACSEL
24 CUR1
33 FAULT
41 PGD
42 PGC
43 ENK3
44 EN
1 RS
8 H3
9 L3
10 H2
11 L2
14 H1
15 L1
17 VDD
16 GND
7
18 MCLR
C2
10uF
U2
24C02C
SCL 6
SDA 5
7
SCK A0
SDA A1
WP A2
C9
1nF
C8
1nF
C7
1nF
REVERC
STOP
ACSEL
R4 1k
VDD
ACSEL
REVERC
STOP
GND
UPR
SIL-100-05
UPR_
SIL-100-05
RV2
4.7k
NO
COM
ON
R3
100
PICKIT1
MCLR
VDD
GND
PGD
PGC
SIL-100-05
KEYB
KN1
PGD
PGC
GND
SIL-100-04
KEYB_
SIL-100-04
K1
K2
K3
R16 R17
1k 1k
AKB
VDD
CUR_BAT
VOLT_BAT
GND
SIL-100-04
D3 D2
1N4742A 1N4742A
F1
H1
L1
RES
FAULT
CUR1
TERM1
GND
SIL-100-07
F2
H2
L2
RES
FAULT
CUR2
TERM2
GND
SIL-100-07
F3
H3
L3
RES
FAULT
TERM3
GND
SIL-100-07
R37
10
LED
K
R36
330
Q11
IRLML2502TR
VDD
R5 10k KN1
R6 10k PGC
R7 10k PGD
R8 10k REVERC
R10 10k SCL
R11 10k SDA
R9 10k FAULT
R12 10k TX
R13 10k RX
VCC/VDD
MCLR
R2 10k
R1 100
C1
0.1uF
+5V
U3
NCP1117S
Vo
Vi
GND
C21
10uF
C5
0.1u
C28
0.33u
+12V
BP
SIL-100-02
VCC
VCC/VDD
U6
NCP1117S
C26
0.1u
C11 1nF
C22 1nF
C10 1nF
C23 10uF
C6 1nF
C4 1nF
C3 1nF
C27
0.1u
UART
TX
RX
GND
SIL-100-03
LCD1
LM016L
VSS
VDD
VEE
RS
RW
E
D0
D1
D2
D3
D4
D5
D6
D7
A
K
VCC/VDD
V0
RS
EN
+5V
VDD
SOUNDER
LS1
SOUND
R38
330
Q10
BC847B
VDD
RV1
15k
V0
ENK
ENK1
ENK2
ENK3
GND
SIL-100-05
+12V
D1
DIODE
KONT
SIL-100-02
+5V
R14
4.7k
Q1
IRFZ24
START
R15
330