U12
ARDUINO
U13
LCD
U4
L297
U5
L298
J6
DB9F
J8
12V POWER INPUT
D2
5A BRIDGE
J3
P3
EXTERNAL COMPONENTS
J2
P2
LCD THRU-CON
R2
10K
R16
10K
SW1
ZERO
SW2
70
R1
767
VR3
943
R3
1268
VR5
2K
R15
100K
R17
22K
VR2
10K
C3
.0033
J4
P4
J5
P5
R18 0.5
R19 0.5
VCC
U1A
MC1458
D1
1N5819 x4
U1B
MC1458
VR6
500K
R4
1K
R6 5.11K
C1 0.1
R13
1K
U2B
LM324
R5
1K
R7 5.11K
R9
1K
R10
4.7K
C2
1 uF
U3
LM555
DSCHG
THR
TRG
OUT
RST
GND
CV
J1
P1
R20
1K
R21
100K
R22
1K
R23
100K
OP1
QUAD A
OP2
QUAD B
J7
DB9F
M1
STEPPER
MOTOR AND OPTO
SW3
ON-OFF
B1
BEEPER
Q1
PNP HI-GAIN
BT1
1.5V CELL
R11
1K
C4
0.1
J9
PROBE
BEEPER
VR1
25K
U2D
LM324
U2A
LM324
R14 47K
U2C
LM324
VR4
10K
INPUT & L298 GND
CONTROL BOARD GND
FRONT PANEL GND
ALL ELECTRICALLY CONNECTED

Figure 2