SOUNDER

LOOP-GND

LOOP-PWR

KEY
2   1

2
1
LOOP

D22
1N4004

R23
20Ω 10W

+12V

PWR
1
2

0V

LM1117T(V)-ADJ

IN   OUT
ADJ
VREG1

R21
200

D21
1N4004

C23
100µF

R22 = R22A + R22B
R22 = (Vo - 1.25) / 0.0625
Vo = (0.0625 * R22) + 1.25

C21
10µF Tant

R22A
1K

C22
10µF Tant

R22B
220

1117

A O I

GND

R5
10K

E
Q1
TIP120
B

D3
1N4148
C

D6
1N4004

GND

Computer-Serial
X1-1
X1-2
X1-3
X1-4
X1-5
X1-6
X1-7
X1-8
X1-9

IC1
1   7
5
6
3
+
2
−
LM741P
8   4

R6
10K

R7
10K

D4
1N4148

D5
1N4148

R9
47K

R10
47K

R8
4.7K

GND

MorseKOB Loop Interface
LRK 2007-09-09

TIP
120

B C E

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