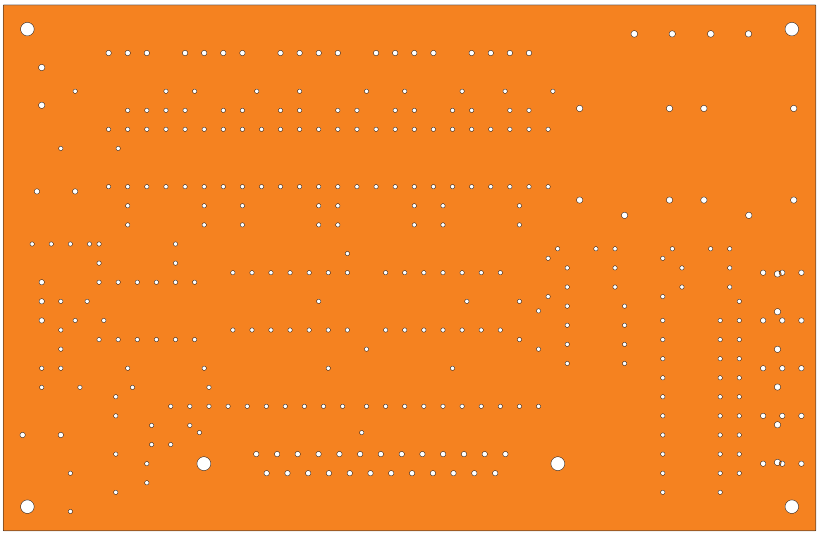

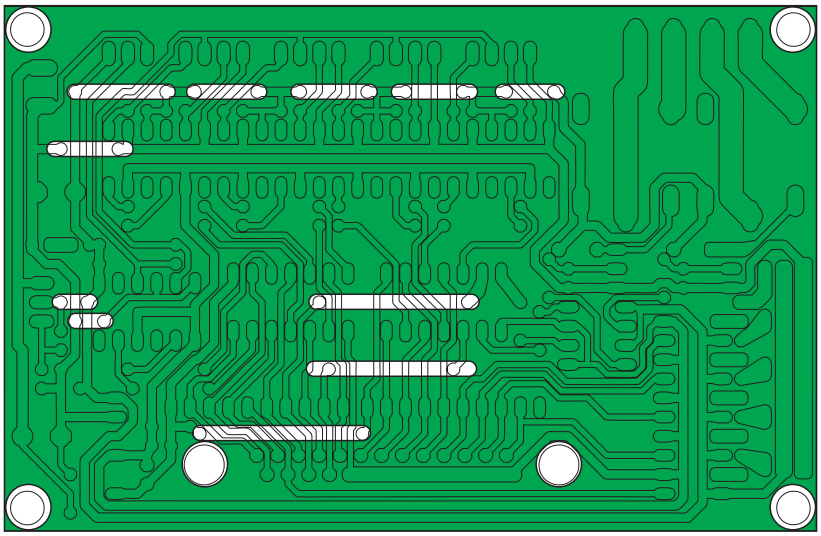

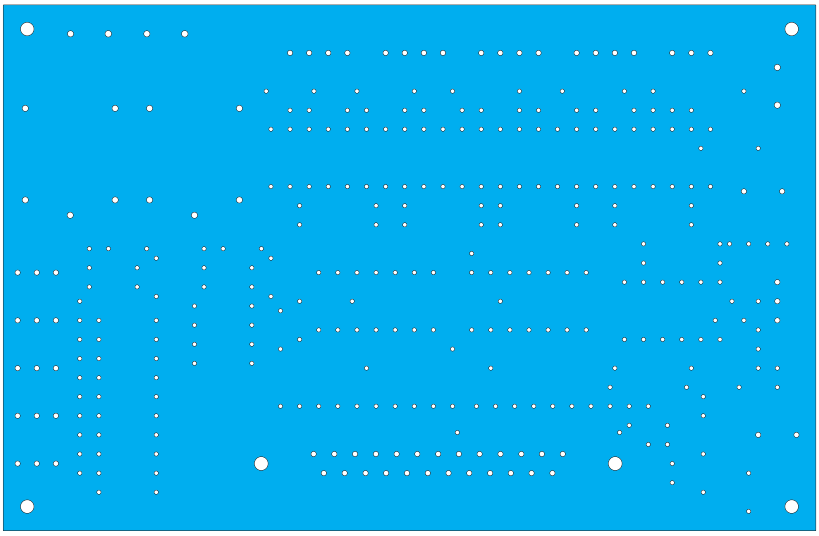

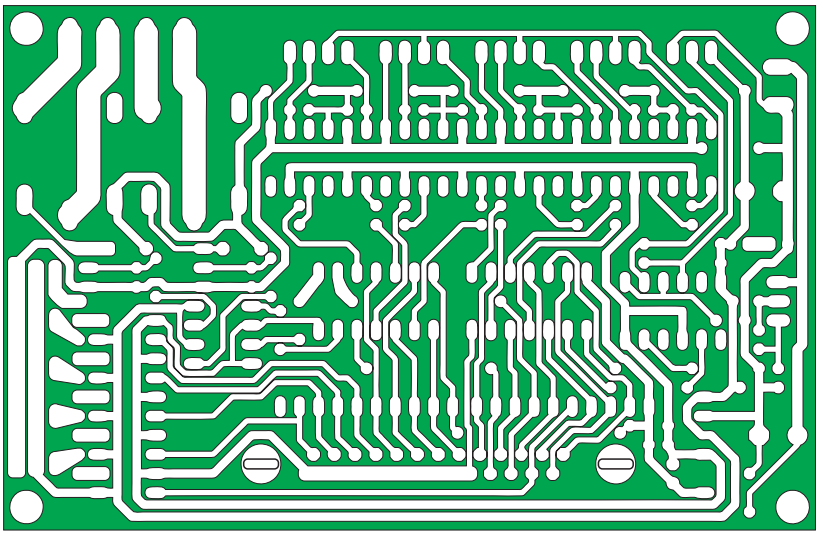

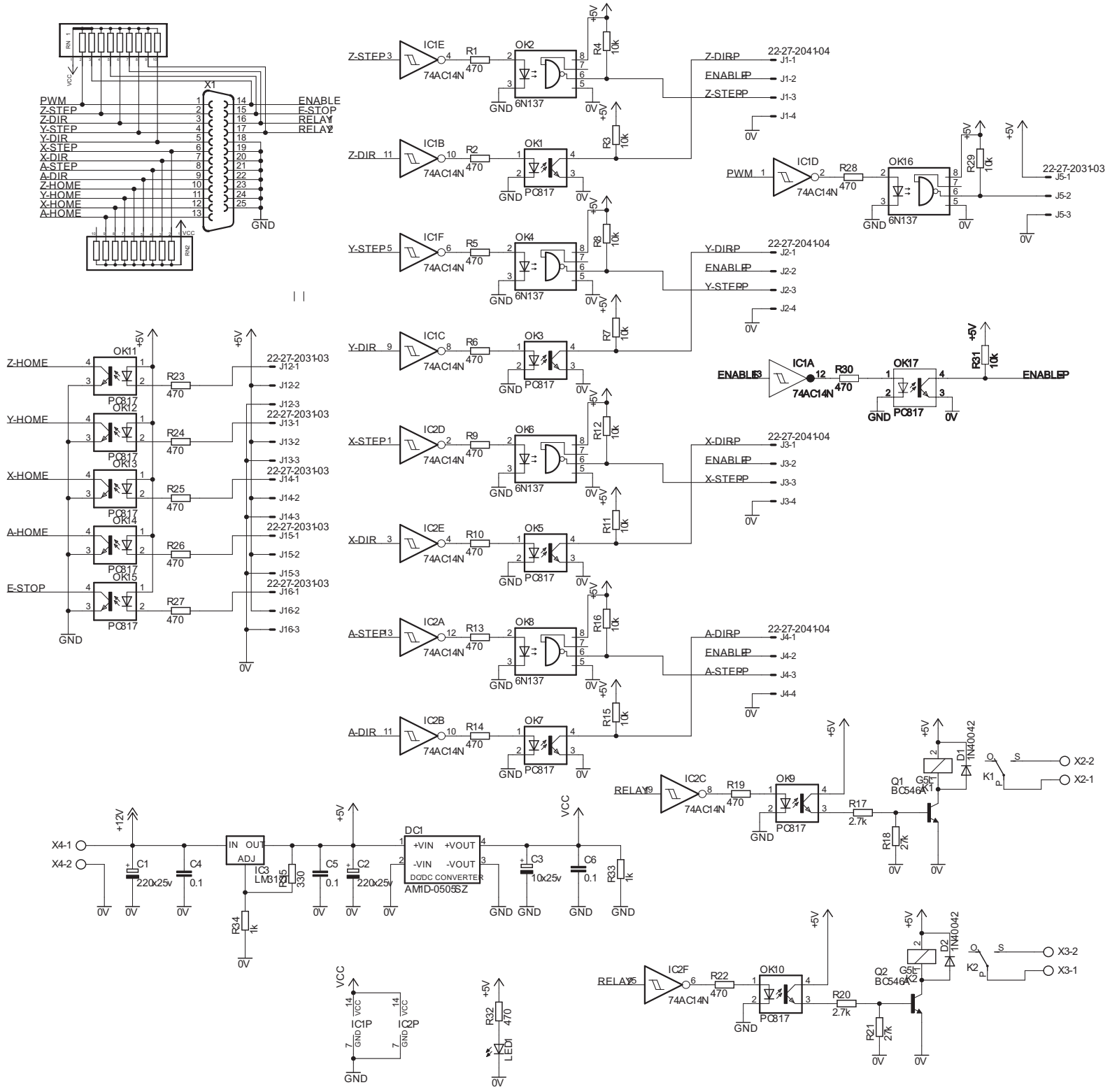
X1
PWM
Z-STEP
Z-DIR
Y-STEP
Y-DIR
X-STEP
X-DIR
A-STEP
A-DIR
Z-HOME
Y-HOME
X-HOME
A-HOME
ENABLE
E-STOP
RELAY1
RELAY2
GND
RN1
RN2
VCC
IC1E
IC1B
IC1F
IC1C
IC2D
IC2E
IC2A
IC2B
IC1D
IC1A
IC2C
IC2F
74AC14N
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OK2
OK3
OK4
OK5
OK6
OK7
OK8
OK9
OK10
OK11
OK12
OK13
OK14
OK15
OK16
OK17
6N137
PC817
R1
R2
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R5
R6
R7
R8
R9
R10
R11
R12
R13
R14
R15
R16
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R22
R23
R24
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R26
R27
R28
R29
R30
R31
R32
470
10k
2.7k
27k
LED1
22-27-2041-04
22-27-2031-03
J1-1
J1-2
J1-3
J1-4
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J15-1
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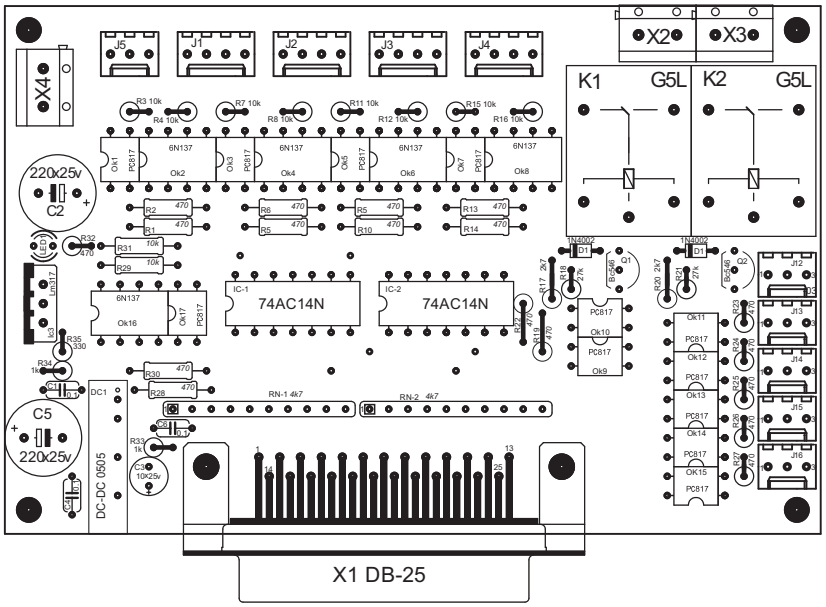
J16-1
J16-2
J16-3
Z-DIR-P
ENABLE-P
Z-STEP-P
Y-DIR-P
Y-STEP-P
X-DIR-P
X-STEP-P
A-DIR-P
A-STEP-P
RELAY1
RELAY2
+5V
0V
+12V
X4-1
X4-2
C1
220x25v
C4
0.1
IC3
LM317
IN OUT
ADJ
R35
330
R34
1k
C5
C2
DC1
+VIN +VOUT
-VIN -VOUT
DODC CONVERTER
AM1D-0505SZ
C3
10x25v
C6
R33
IC1P
IC2P
D1
1N4004
D2
Q1
BC546A
Q2
G5L
K1
K2
X2-2
X2-1
X3-2
X3-1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J5
J1
J2
J3
J4
X2
X3
K1
G5L
K2
G5L
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R4 10k
R7 10k
R8 10k
R11 10k
R12 10k
R15 10k
R16 10k
6N137
PC817
220x25v
C2
R2 470
R1 470
R6 470
R5 470
R13 470
R14 470
R32 470
R31 10k
R29 10k
LED
Um317
R35 330
R34 1k
C4 0.1
C5
220x25v
DC1
DC-DC 0505
R30 470
R28 470
C6 0.1
R33 1k
C3 10x25v
IC-1
74AC14N
IC-2
74AC14N
RN-1 4k7
RN-2 4k7
1N4002
D1
Q1
Q2
R18 2k7
R19 470
R20 2k7
R21 2k7
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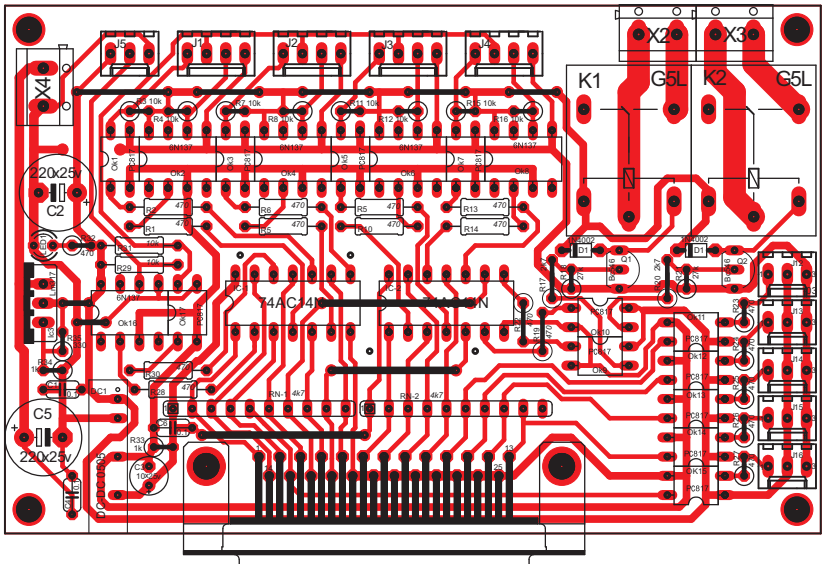
R27 470
J12
J13
J14
J15
J16
X1 DB-25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X3
K1
G5L
K2
G5L
X4
220x25V
C2
C5
220x25V
74AC241
X1 DB-25