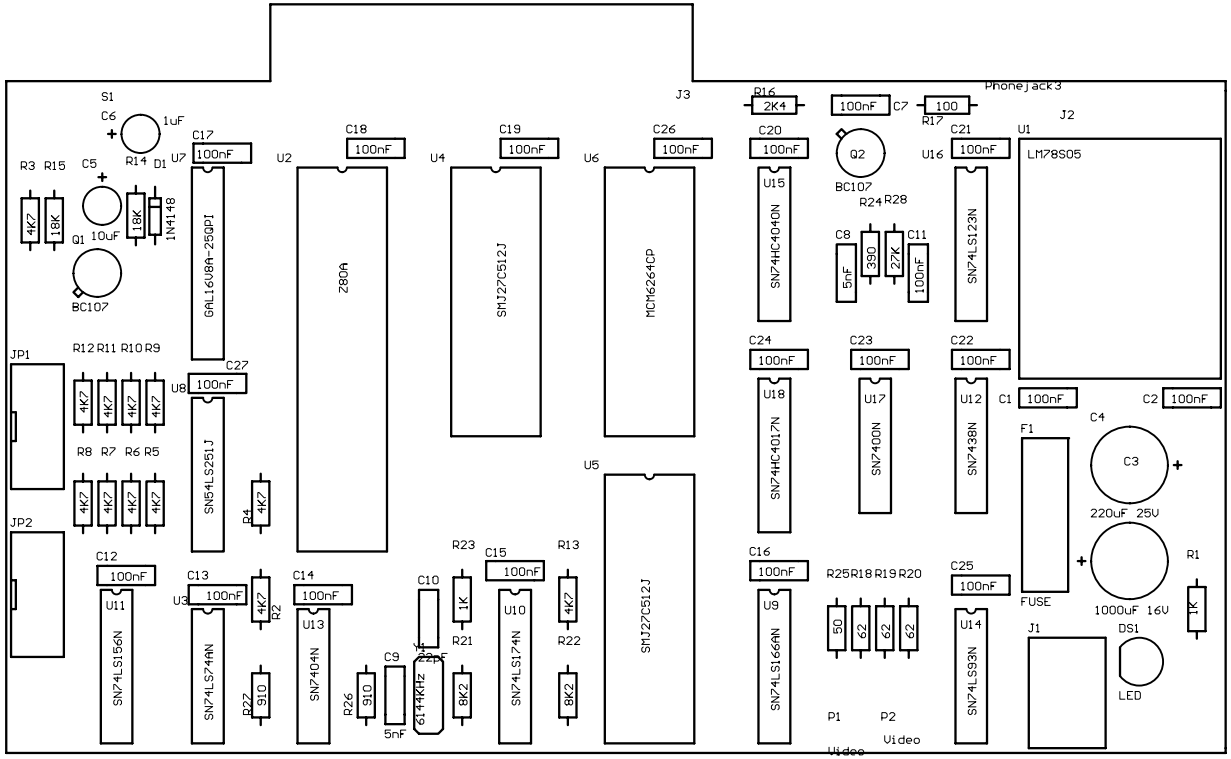
S1
C6
1uF
R3 R15
4K7
18K
C5
10uF
R14
18K
D1
1N4148
Q1
BC107
U7
C17
100nF
GAL16V8A-25QPI
U2
C18
100nF
Z80A
U4
C19
100nF
SM327C512J
U6
C26
100nF
MCM62640P
U5
SM327C512J
J3
R16
2K4
100nF
C7
100
R17
Phonejack3
J2
U1
LM78S05
C20
100nF
U15
SN74HC4040N
Q2
BC107
R24 R28
C8
5nF
390
27K
C11
100nF
U16
C21
100nF
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C24
100nF
U18
SN74HC4017N
C23
100nF
U17
SN7400N
C22
100nF
U12
SN7438N
C1
100nF
C2
100nF
C4
C3
220uF 25V
1000uF 16V
F1
FUSE
R1
1K
J1
DS1
LED
JP1
R12 R11 R10 R9
4K7
R8 R7 R6 R5
4K7
JP2
U8
C27
100nF
SN54LS251J
R4
4K7
C12
100nF
U11
SN74LS156N
C13
100nF
U3
SN74LS74AN
R2
4K7
R27
910
C14
100nF
U13
SN7404N
R26
910
C9
5nF
Y1
32pF
6144KHz
C10
R23
1K
R21
8K2
C15
100nF
U10
SN74LS174N
R13
4K7
R22
8K2
C16
100nF
U9
SN74LS166AN
R25 R18 R19 R20
50
62
62
62
P1
Video
P2
Video
C25
100nF
U14
SN74LS93N