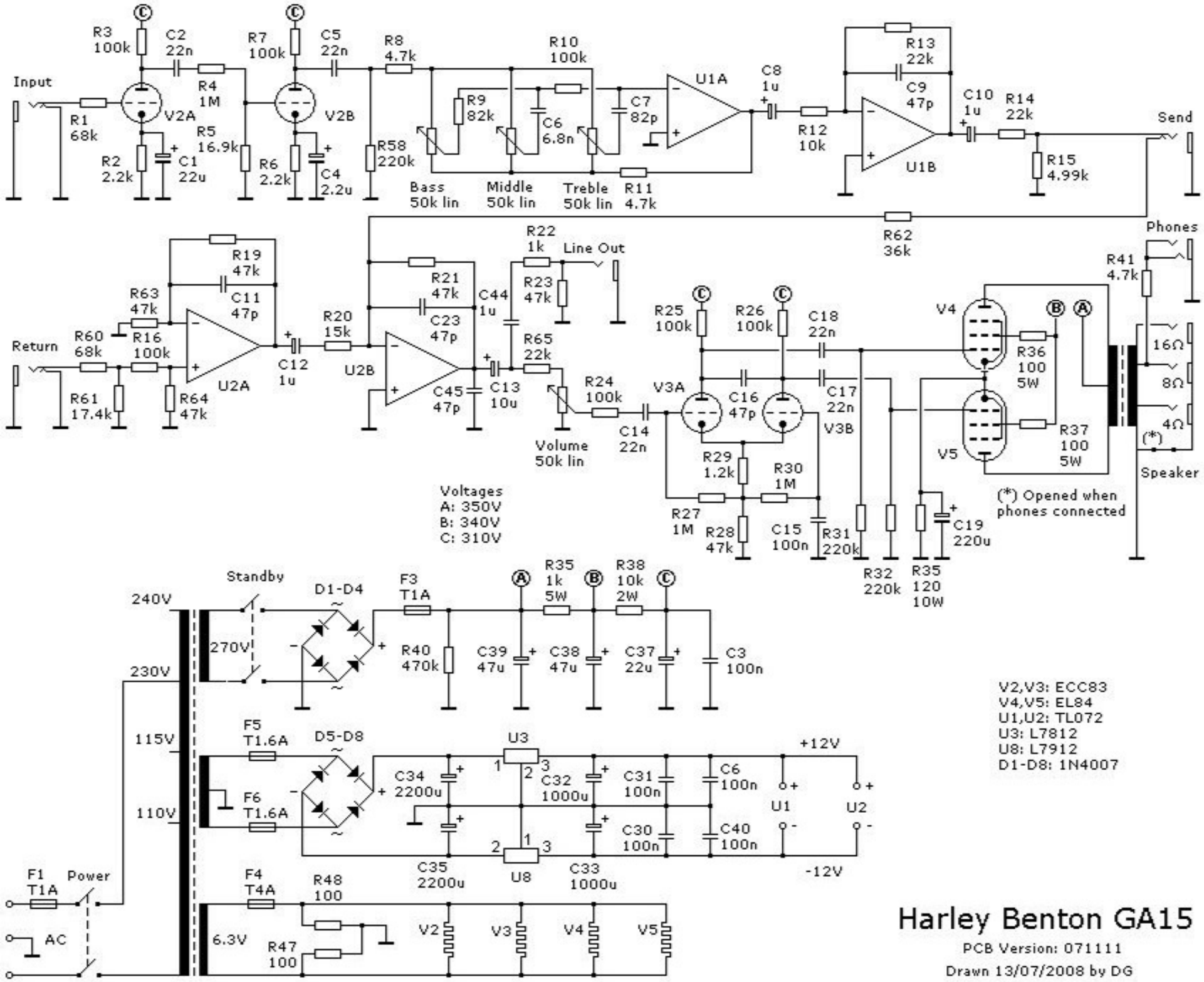
Input
R1 68k
R2 2.2k
C1 22u
R3 100k
C2 22n
R4 1M
R5 16.9k
R6 2.2k
R7 100k
C5 22n
C4 2.2u
R8 4.7k
R58 220k
V2A
V2B
R9 82k
C6 6.8n
C7 82p
R10 100k
Bass 50k lin
Middle 50k lin
Treble 50k lin
R11 4.7k
U1A
C8 1u
R12 10k
R13 22k
C9 47p
U1B
C10 1u
R14 22k
R15 4.99k
Send
R62 36k
Phones
R41 4.7k
16Ω
8Ω
4Ω
(*)
Speaker
Return
R60 68k
R61 17.4k
R63 47k
R16 100k
R64 47k
R19 47k
C11 47p
U2A
C12 1u
R20 15k
U2B
R21 47k
C23 47p
C45 47p
C44 1u
C13 10u
R22 1k
Line Out
R23 47k
R65 22k
Volume 50k lin
R24 100k
C14 22n
R25 100k
R26 100k
C18 22n
V3A
V3B
C16 47p
C17 22n
R29 1.2k
R30 1M
R27 1M
R28 47k
C15 100n
R31 220k
R32 220k
R35 120 10W
C19 220u
V4
V5
R36 100 5W
R37 100 5W
(*) Opened when phones connected
Voltages
A: 350V
B: 340V
C: 310V
240V
230V
115V
110V
Standby
D1-D4
F3 T1A
270V
R40 470k
R35 1k 5W
R38 10k 2W
C39 47u
C38 47u
C37 22u
C3 100n
F5 T1.6A
F6 T1.6A
D5-D8
U3
C34 2200u
C32 1000u
C31 100n
C6 100n
C30 100n
C40 100n
C35 2200u
U8
C33 1000u
+12V
-12V
U1
U2
F1 T1A
Power
AC
F4 T4A
R48 100
6.3V
R47 100
V2
V3
V4
V5
V2,V3: ECC83
V4,V5: EL84
U1,U2: TL072
U3: L7812
U8: L7912
D1-D8: 1N4007
Harley Benton GA15
PCB Version: 071111
Drawn 13/07/2008 by DG