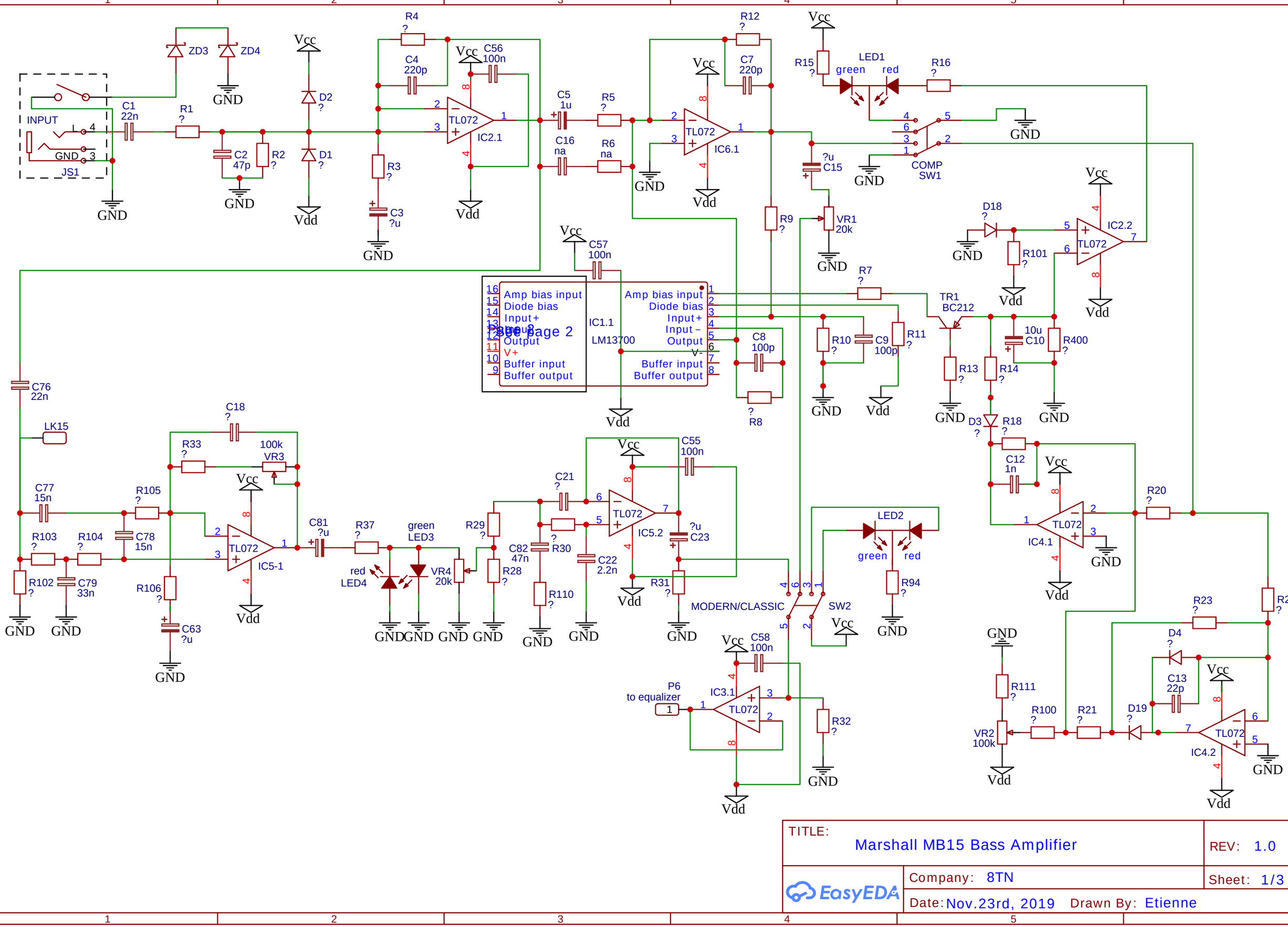
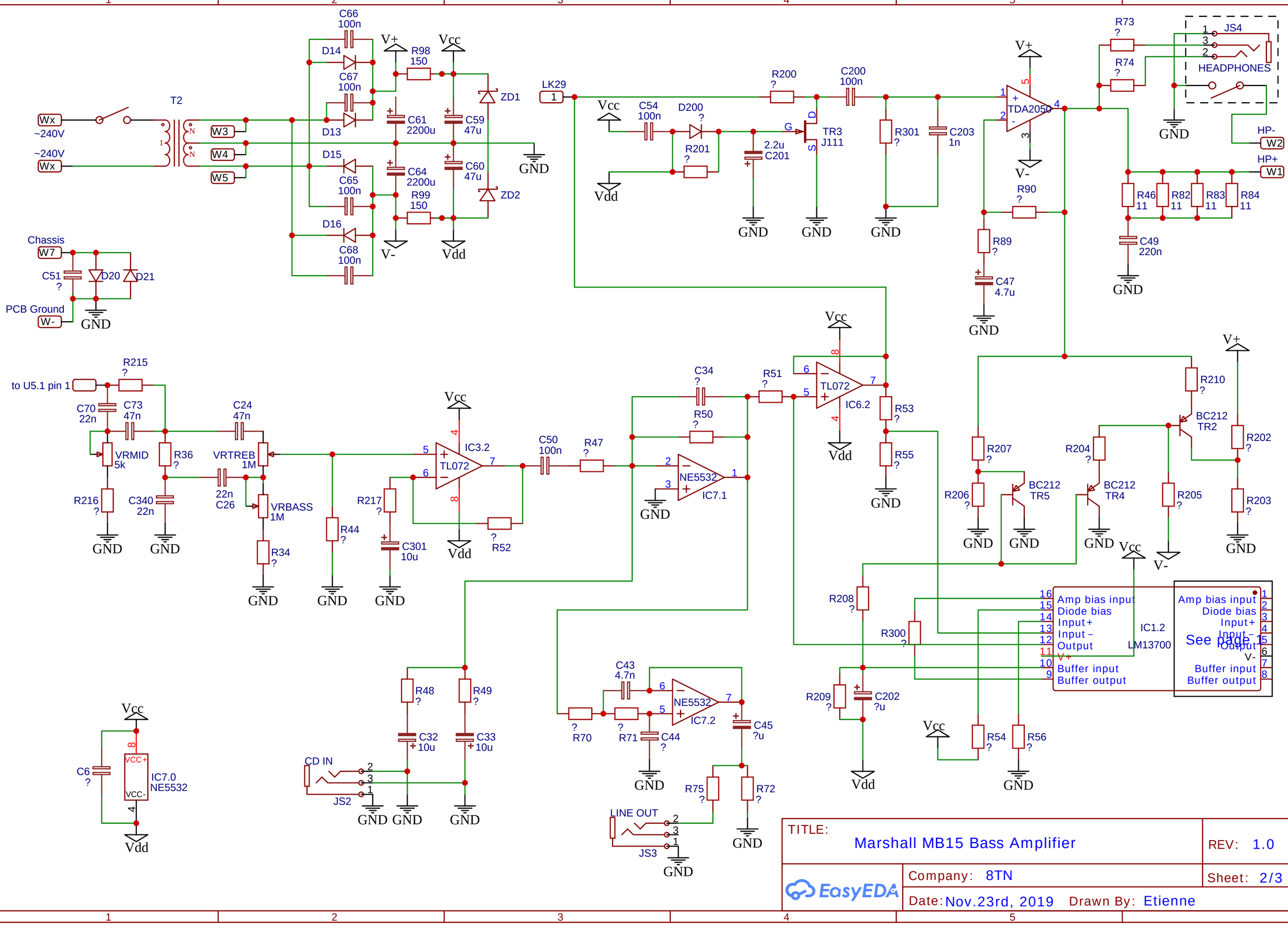

INPUT
JS1
ZD3
ZD4
C1 22n
R1 ?
C2 47p
R2 ?
D2 ?
D1 ?
R4 ?
C4 220p
C56 100n
TL072
IC2.1
C5 1u
C16 na
R5 ?
R6 na
R3 ?
C3 ?u
R12 ?
C7 220p
IC6.1
R15 ?
LED1
green
red
R16 ?
?u C15
VR1 20k
R9 ?
COMP SW1
C57 100n
IC1.1
LM13700
Amp bias input
Diode bias
Input+
Input–
Output
V+
V-
Buffer input
Buffer output
C8 100p
R8 ?
R7 ?
R10 ?
C9 100p
R11 ?
TR1 BC212
R13 ?
R14 ?
10u C10
R400 ?
D18 ?
R101 ?
IC2.2
D3 ?
R18 ?
C12 1n
R20 ?
IC4.1
R22 ?
R23 ?
D4 ?
C13 22p
R111 ?
R100 ?
R21 ?
D19 ?
VR2 100k
IC4.2
C76 22n
LK15
C18 ?
R33 ?
100k VR3
C77 15n
R105 ?
R103 ?
R104 ?
C78 15n
R102 ?
C79 33n
R106 ?
C63 ?u
C81 ?u
R37 ?
red LED3
VR4 20k
R29 ?
R28 ?
C21 ?
C82 47n
R30 ?
R110 ?
C22 2.2n
IC5.2
?u C23
R31 ?
MODERN/CLASSIC
SW2
LED2
green
red
R94 ?
C58 100n
P6
to equalizer
IC3.1
R32 ?
R12 ?
R27 ?
R26 ?
R25 ?
R24 ?
C20 ?
C19 ?
C17 ?
C14 ?
C11 ?
C24 ?
C25 ?
C26 ?
C27 ?
C28 ?
C29 ?
C30 ?
C31 ?
C32 ?
C33 ?
C34 ?
C35 ?
C36 ?
C37 ?
C38 ?
C39 ?
C40 ?
C41 ?
C42 ?
C43 ?
C44 ?
C45 ?
C46 ?
C47 ?
C48 ?
C49 ?
C50 ?
C51 ?
C52 ?
C53 ?
C54 ?
C55 100n
C60 ?
C61 ?
C62 ?
C64 ?
C65 ?
C66 ?
C67 ?
C68 ?
C69 ?
C70 ?
C71 ?
C72 ?
C73 ?
C74 ?
C75 ?
C76 ?
C77 ?
C78 ?
C79 ?
C80 ?
C81 ?
C82 ?
C83 ?



TITLE: Marshall MB15 Bass Amplifier			REV: 1.0
EasyEDA	Company: 8TN		Sheet: 2/3
	Date: Nov.23rd, 2019	Drawn By: Etienne	

IC1 LM13700 NS
IC2 TL072 STM
IC3 TL072 STM
IC4 TL072 STM
IC5 TL072 STM
IC6 TL072 STM
IC7 NE5532P TI
?? TDA2050 STM

TR1 BC212 Fairchild
TR2 BC212 Fairchild
TR3 J111
TR4 BC212 Fairchild
TR5 BC212 Fairchild

SW1 COMP ON/OFF
SW2 CLASSIC/MODERN

VR1 B20k Pot VOLUME MODERN
VR2 B100k Pot COMP MODERN
VR3 C100k Pot GAIN CLASSIC
VR4 B20k Pot VOLUME CLASSIC
VRBASS A1M Pot BASS
VRMID B5k Pot VOICE
VRTREBLE B200k Pot

ZD1
ZD2
ZD3
ZD4
lED3 green
LED4 red
LED1 Bicolor red/green

JS1 INPUT
JS2 CD IN
JS3 LINE OUT
JS4 HEADPHONES

D1,D2,D3,D4,D18,D19,D200 1N4148?
D13,D14,D15,D16,D20,D21 1N4001?

R1,R2,R4,R3,R5,R12,R15,R16,R9,R20,R11,R10,R7,R13,R400,R101,R18,R14,R22,R23,R21,
R100,R111,R102,R103,R104,R105,R33,R106,R37,R28,R29,R30,R31,R94,R32,R8,R110,R73,R74,R90,R89,
R301,R200,R201,R215,R44,R216,R36,R34,R52,R217,R47,R50,R48,R49,R51,R53,R55,R56,R54,
R300,R209,R208,R206,R207,R204,R205,R203,R202,R210,R71,R70,R75,R72

R6 na
R99,R98 150
R46,R82,R83,R84 11

?uC3,C63,C81,C23,C15,C202,C45
1uC5
10uC10,C32,C33,C301
47uC60,C59
2200uC64,C61
4.7uC47
2.2uC201

22nC1,C76,C70,C340,C26
47pC2
220pC4,C7
100nC57,C56,C58,C55,C200,C54,C50,C68,C65,C67,C66
?C18,C21,C6,C34,C44,C51
100pC8,C9
naC16
1nC12,C203
22pC13
15nC77,C78
33nC79
2.2nC22
47nC82,C73,C24
220nC49
4.7nC43

TITLE: Marshall MB15 Bass Amplifier			REV: 1.0
EasyEDA	Company: 8TN		Sheet: 2/3
	Date: Nov.23rd, 2019	Drawn By: Etienne	