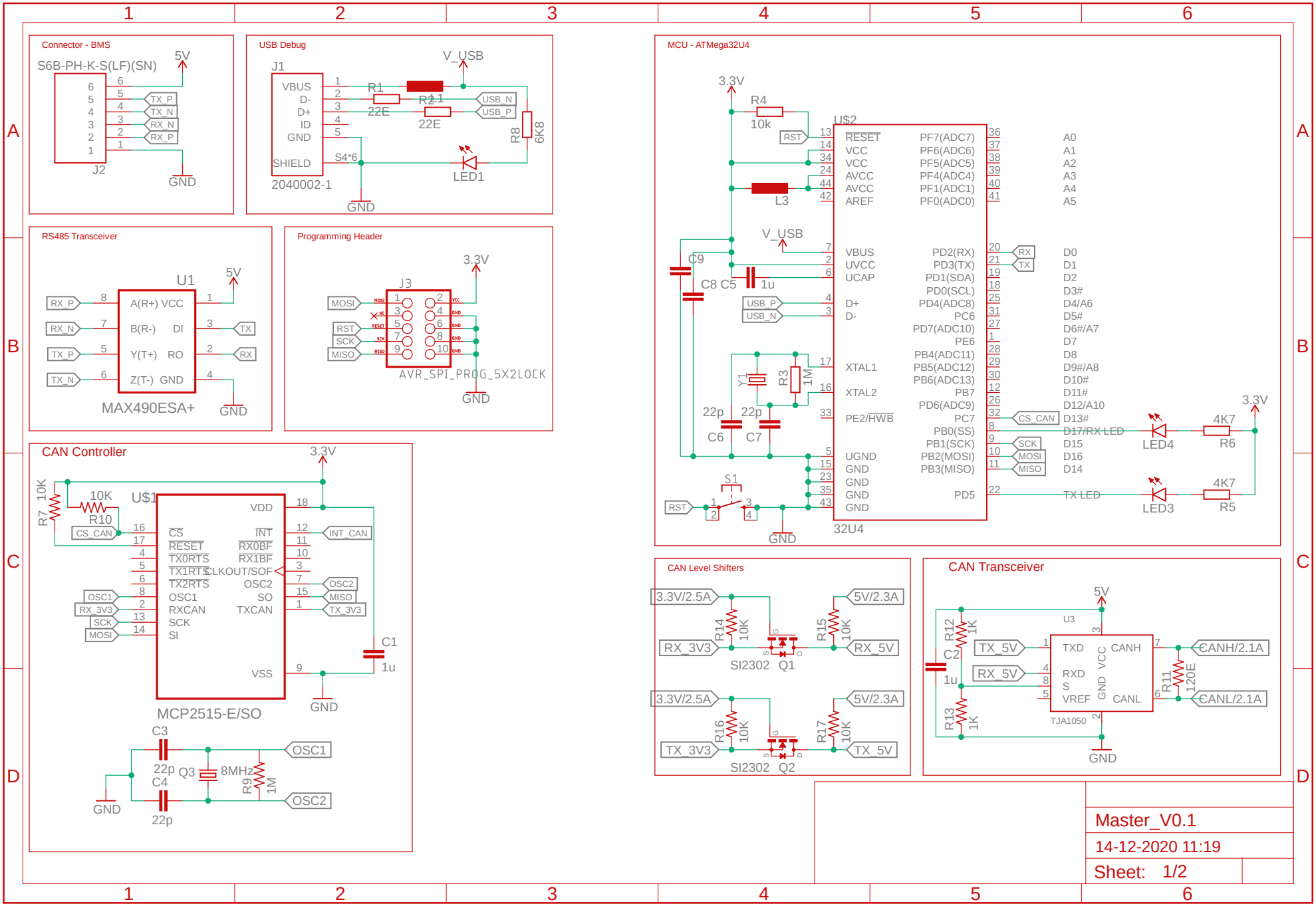
Connector - BMS
S6B-PH-K-S(LF)(SN)
J2
5V
GND
USB Debug
J1
VBUS
D-
D+
ID
GND
SHIELD
2040002-1
V_USB
R1
22E
R2
22E
USB_N
USB_P
R8
6K8
S4*6
LED1
RS485 Transceiver
U1
MAX490ESA+
A(R+) VCC
B(R-) DI
Y(T+) RO
Z(T-) GND
RX_P
RX_N
TX_P
TX_N
TX
RX
Programming Header
J3
AVR_SPI_PROG_5X2LOCK
MOSI
RST
SCK
MISO
3.3V
CAN Controller
U$1
MCP2515-E/SO
R7 10K
10K
R10
CS_CAN
VDD
VSS
CS
RESET
TX0RTS
TX1RTS
TX2RTS
OSC1
RXCAN
SCK
SI
INT
RX0BF
RX1BF
CLKOUT/SOF
OSC2
SO
TXCAN
INT_CAN
OSC2
MISO
TX_3V3
OSC1
RX_3V3
C1
1u
C3
22p
C4
22p
Q3
8MHz
R9
1M
MCU - ATMega32U4
U$2
32U4
R4
10k
L3
V_USB
C9
C8 C5
1u
USB_P
USB_N
Y1
R3
1M
22p
C6
22p
C7
S1
RST
RESET
VCC
AVCC
AREF
VBUS
UVCC
UCAP
D+
D-
XTAL1
XTAL2
PE2/HWB
UGND
GND
PF7(ADC7)
PF6(ADC6)
PF5(ADC5)
PF4(ADC4)
PF1(ADC1)
PF0(ADC0)
PD2(RX)
PD3(TX)
PD1(SDA)
PD0(SCL)
PD4(ADC8)
PC6
PD7(ADC10)
PE6
PB4(ADC11)
PB5(ADC12)
PB6(ADC13)
PB7
PD6(ADC9)
PC7
PB0(SS)
PB1(SCK)
PB2(MOSI)
PB3(MISO)
PD5
A0
A1
A2
A3
A4
A5
D0
D1
D2
D3#
D4/A6
D5#
D6#/A7
D7
D8
D9#/A8
D10#
D11#
D12/A10
D13#
D17/RX LED
D15
D16
D14
TX LED
CS_CAN
LED4
R6
4K7
LED3
R5
4K7
CAN Level Shifters
3.3V/2.5A
5V/2.3A
RX_3V3
RX_5V
TX_3V3
TX_5V
R14
10K
R15
10K
R16
10K
R17
10K
SI2302 Q1
SI2302 Q2
CAN Transceiver
U3
TJA1050
TXD
RXD
S
VREF
CANH
CANL
VCC
GND
TX_5V
RX_5V
R12
1K
R13
1K
C2
1u
R11
120E
CANH/2.1A
CANL/2.1A
Master_V0.1
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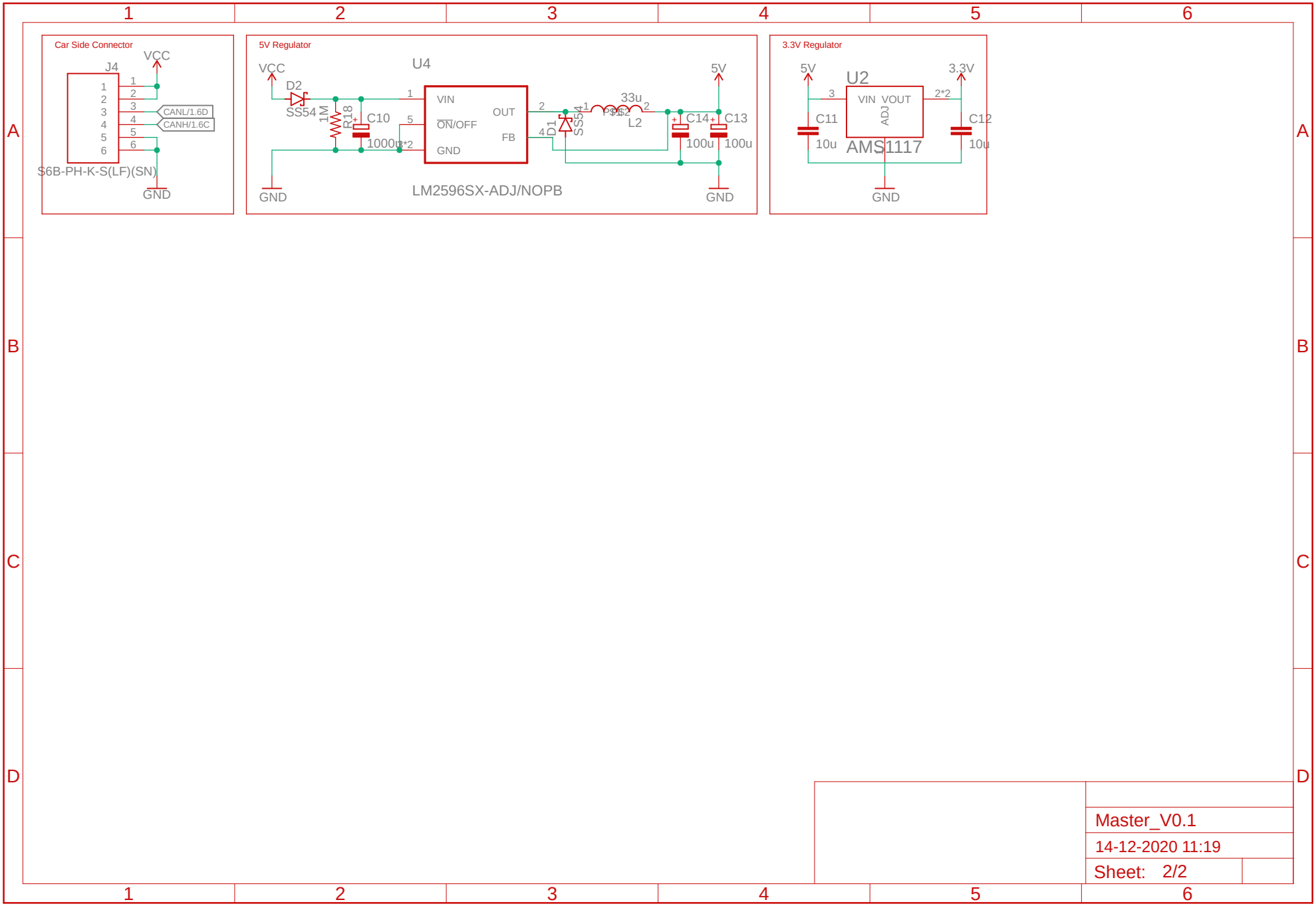
Sheet: 1/2


Car Side Connector
J4
VCC
CANL/1.6D
CANH/1.6C
S6B-PH-K-S(LF)(SN)
GND
5V Regulator
VCC
D2
SS54
1M
R18
C10
1000u
U4
VIN
ON/OFF
GND
OUT
FB
D1
SS54
33u
L2
C14
C13
100u
100u
5V
GND
LM2596SX-ADJ/NOPB
3.3V Regulator
5V
U2
VIN VOUT
ADJ
3.3V
C11
10u
C12
10u
AMS1117
GND
Master_V0.1
14-12-2020 11:19
Sheet: 2/2