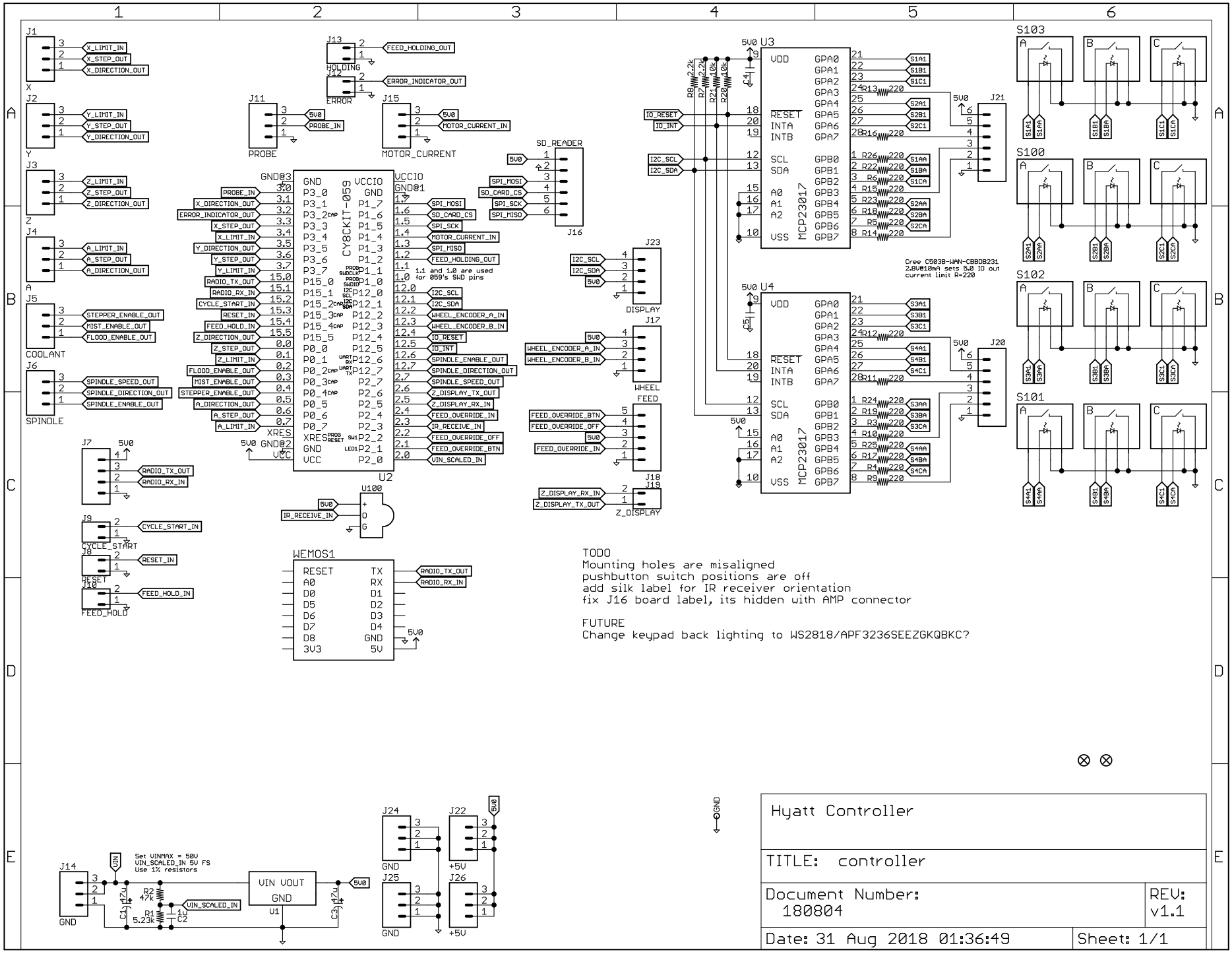
J1
X_LIMIT_IN
X_STEP_OUT
X_DIRECTION_OUT
X
J2
Y_LIMIT_IN
Y_STEP_OUT
Y_DIRECTION_OUT
Y
J3
Z_LIMIT_IN
Z_STEP_OUT
Z_DIRECTION_OUT
Z
J4
A_LIMIT_IN
A_STEP_OUT
A_DIRECTION_OUT
A
J5
STEPPER_ENABLE_OUT
MIST_ENABLE_OUT
FLOOD_ENABLE_OUT
COOLANT
J6
SPINDLE_SPEED_OUT
SPINDLE_DIRECTION_OUT
SPINDLE_ENABLE_OUT
SPINDLE
J7
RADIO_TX_OUT
RADIO_RX_IN
J9
CYCLE_START_IN
CYCLE_START
J8
RESET_IN
RESET
J10
FEED_HOLD_IN
FEED_HOLD
J13
FEED_HOLDING_OUT
HOLDING
J12
ERROR_INDICATOR_OUT
ERROR
J11
PROBE_IN
PROBE
J15
MOTOR_CURRENT_IN
MOTOR_CURRENT
CY8CKIT-059
U2
1.1 and 1.0 are used for 059's SWD pins
SD_READER
J16
SPI_MOSI
SD_CARD_CS
SPI_SCK
SPI_MISO
J23
I2C_SCL
I2C_SDA
DISPLAY
J17
WHEEL_ENCODER_A_IN
WHEEL_ENCODER_B_IN
WHEEL
FEED
FEED_OVERRIDE_BTN
FEED_OVERRIDE_OFF
FEED_OVERRIDE_IN
J18
J19
Z_DISPLAY_RX_IN
Z_DISPLAY_TX_OUT
Z_DISPLAY
U100
IR_RECEIVE_IN
WEMOS1
U3
MCP23017
IO_RESET
IO_INT
J21
U4
J20
Cree C503B-WAN-CBBDB231
2.8V@10mA sets 5.0 IO out
current limit R=220
S103
S100
S102
S101
TODO
Mounting holes are misaligned
pushbutton switch positions are off
add silk label for IR receiver orientation
fix J16 board label, its hidden with AMP connector
FUTURE
Change keypad back lighting to WS2818/APF3236SEEZGKQBKC?
J14
Set VINMAX = 50V
VIN_SCALED_IN 5V FS
Use 1% resistors
VIN VOUT
GND
U1
VIN_SCALED_IN
J24
J22
J25
J26
+5V
GND
Hyatt Controller
TITLE: controller
Document Number:
180804
REV:
v1.1
Date: 31 Aug 2018 01:36:49
Sheet: 1/1