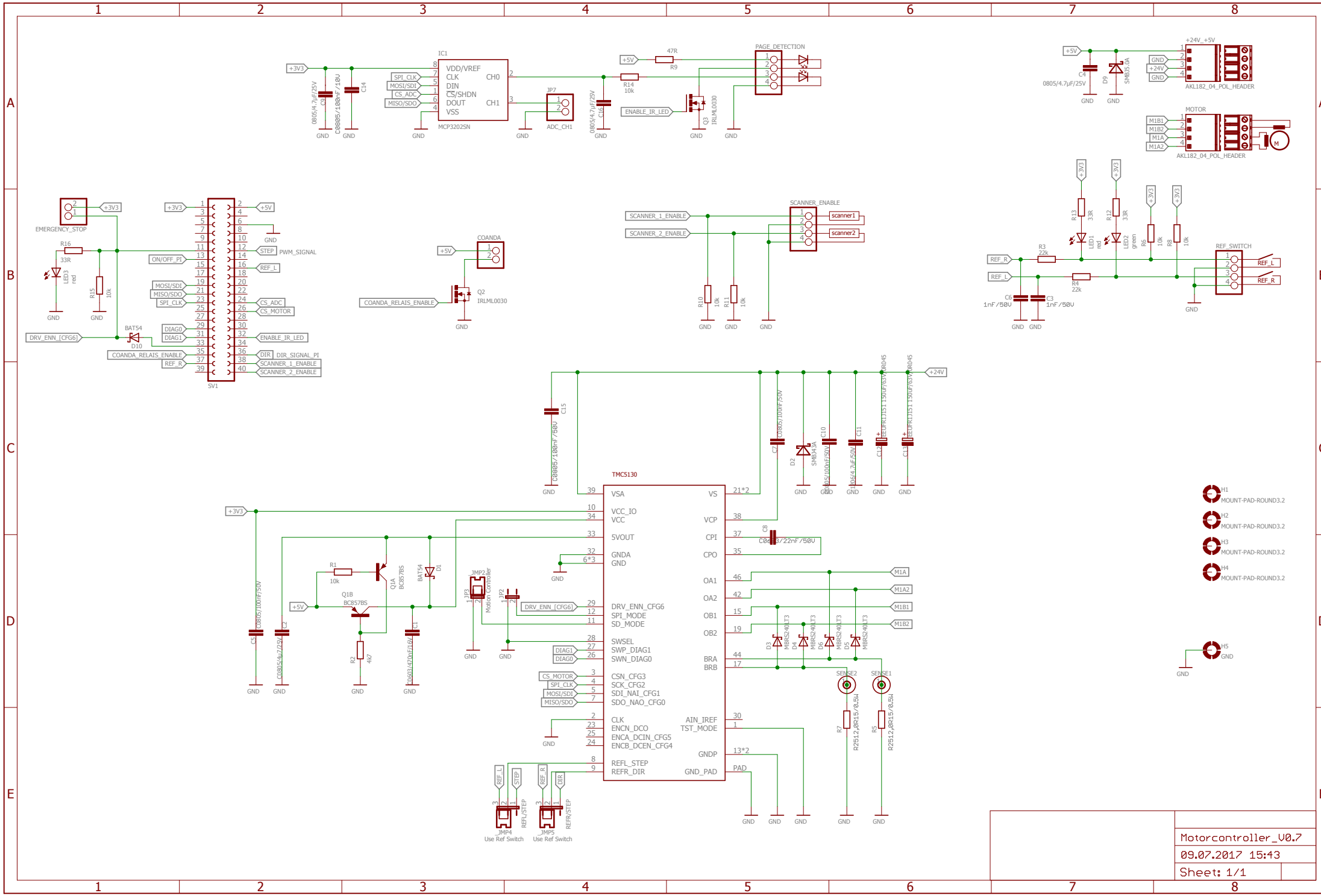

IC1
MCP3202SN
VDD/VREF
CLK
DIN
CS/SHDN
DOUT
VSS
CH0
CH1
SPI_CLK
MOSI/SDI
CS_ADC
MISO/SDO
+3V3
C9
0805/4.7µF/25V
C8
C0805/100nF/10V
C14
JP7
ADC_CH1
C16
0805/4.7µF/25V
R14
10k
R9
47R
+5V
ENABLE_IR_LED
Q3
IRLML0030
PAGE_DETECTION
+24V_+5V
AKL182_04_POL_HEADER
C4
0805/4.7µF/25V
D9
SMBJ5.0A
MOTOR
M1B1
M1B2
M1A
M1A2
EMERGENCY_STOP
R16
33R
LED3
red
R15
10k
DRV_ENN_[CFG6]
BAT54
D10
SV1
ON/OFF_PI
STEP
PWM_SIGNAL
REF_L
CS_ADC
CS_MOTOR
DIAG0
DIAG1
ENABLE_IR_LED
COANDA_RELAIS_ENABLE
REF_R
DIR
DIR_SIGNAL_PI
SCANNER_1_ENABLE
SCANNER_2_ENABLE
COANDA
Q2
IRLML0030
SCANNER_ENABLE
scanner1
scanner2
R10
10k
R11
10k
R13
33R
R12
33R
LED1
red
LED2
green
R6
10k
R8
10k
R3
22k
R4
22k
C6
1nF/50V
C3
1nF/50V
REF_SWITCH
TMC5130
VSA
VCC_IO
VCC
5VOUT
GNDA
GND
DRV_ENN_CFG6
SPI_MODE
SD_MODE
SWSEL
SWP_DIAG1
SWN_DIAG0
CSN_CFG3
SCK_CFG2
SDI_NAI_CFG1
SDO_NAO_CFG0
CLK
ENCN_DCO
ENCA_DCIN_CFG5
ENCB_DCEN_CFG4
REFL_STEP
REFR_DIR
VS
VCP
CPI
CPO
OA1
OA2
OB1
OB2
BRA
BRB
AIN_IREF
TST_MODE
GNDP
GND_PAD
PAD
C15
C0805/100nF/50V
C7
C0805/100nF/50V
D2
SMBJ43A
C10
C0805/100nF/50V
C11
C12
C13
C8
C0603/22nF/50V
M1A
M1A2
M1B1
M1B2
D3
D4
D5
D6
MBRS240LT3
SENSE2
SENSE1
R7
R2512,0R15/0.5W
R5
R2512,0R15/0.5W
R1
10k
Q1A
BC857BS
Q1B
BC857BS
BAT54
D1
R2
4k7
C1
C0603/470nF/16V
C5
C0805/100nF/50V
C2
C0805/4µ7/25V
JMP2
JP3
Motion Controller
JP2
JMP4
Use Ref Switch
JMP5
Use Ref Switch
REFL/STEP
REFR/STEP
H1
H2
H3
H4
H5
MOUNT-PAD-ROUND3.2
GND
Motorcontroller_V0.7
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