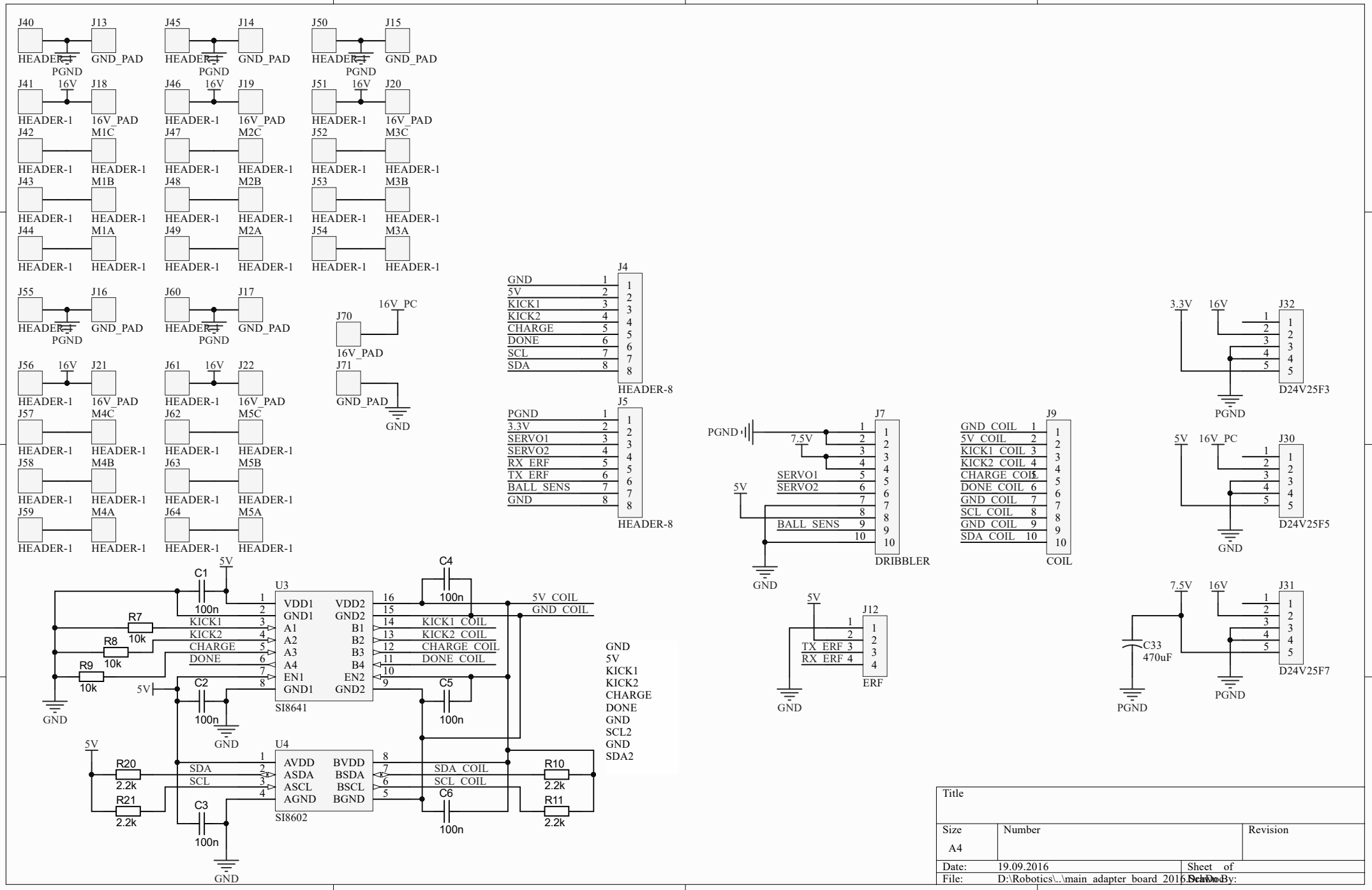
J40 J13 HEADER-1 GND_PAD PGND
J45 J14 HEADER-1 GND_PAD PGND
J50 J15 HEADER-1 GND_PAD PGND
J41 16V J18 HEADER-1 16V_PAD
J46 16V J19 HEADER-1 16V_PAD
J51 16V J20 HEADER-1 16V_PAD
J42 M1C HEADER-1 HEADER-1
J47 M2C HEADER-1 HEADER-1
J52 M3C HEADER-1 HEADER-1
J43 M1B HEADER-1 HEADER-1
J48 M2B HEADER-1 HEADER-1
J53 M3B HEADER-1 HEADER-1
J44 M1A HEADER-1 HEADER-1
J49 M2A HEADER-1 HEADER-1
J54 M3A HEADER-1 HEADER-1
J55 J16 HEADER-1 GND_PAD PGND
J60 J17 HEADER-1 GND_PAD PGND
J70 16V_PC 16V_PAD
J71 GND_PAD GND
J56 16V J21 HEADER-1 16V_PAD
J61 16V J22 HEADER-1 16V_PAD
J57 M4C HEADER-1 HEADER-1
J62 M5C HEADER-1 HEADER-1
J58 M4B HEADER-1 HEADER-1
J63 M5B HEADER-1 HEADER-1
J59 M4A HEADER-1 HEADER-1
J64 M5A HEADER-1 HEADER-1
J4 HEADER-8
GND 1
5V 2
KICK1 3
KICK2 4
CHARGE 5
DONE 6
SCL 7
SDA 8
J5 HEADER-8
PGND 1
3.3V 2
SERVO1 3
SERVO2 4
RX_ERF 5
TX_ERF 6
BALL_SENS 7
GND 8
J7 DRIBBLER
PGND
7.5V
5V
SERVO1 5
SERVO2 6
BALL_SENS 9
GND
J9 COIL
GND_COIL 1
5V_COIL 2
KICK1_COIL 3
KICK2_COIL 4
CHARGE_COIL 5
DONE_COIL 6
GND_COIL 7
SCL_COIL 8
GND_COIL 9
SDA_COIL 10
J32 D24V25F3
3.3V 16V PGND
J30 D24V25F5
5V 16V_PC GND
J31 D24V25F7
7.5V 16V C33 470uF PGND
J12 ERF
5V TX_ERF 3 RX_ERF 4 GND
U3 SI8641
VDD1 VDD2 GND1 GND2 A1 A2 A3 A4 EN1 GND1 B1 B2 B3 B4 EN2 GND2
KICK1 KICK2 CHARGE DONE
KICK1_COIL KICK2_COIL CHARGE_COIL DONE_COIL
5V_COIL GND_COIL
C1 100n C2 100n C4 100n C5 100n
R7 10k R8 10k R9 10k
U4 SI8602
AVDD ASDA ASCL AGND BVDD BSDA BSCL BGND
SDA SCL SDA_COIL SCL_COIL
R20 2.2k R21 2.2k R10 2.2k R11 2.2k
C3 100n C6 100n
GND 5V KICK1 KICK2 CHARGE DONE GND SCL2 GND SDA2
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