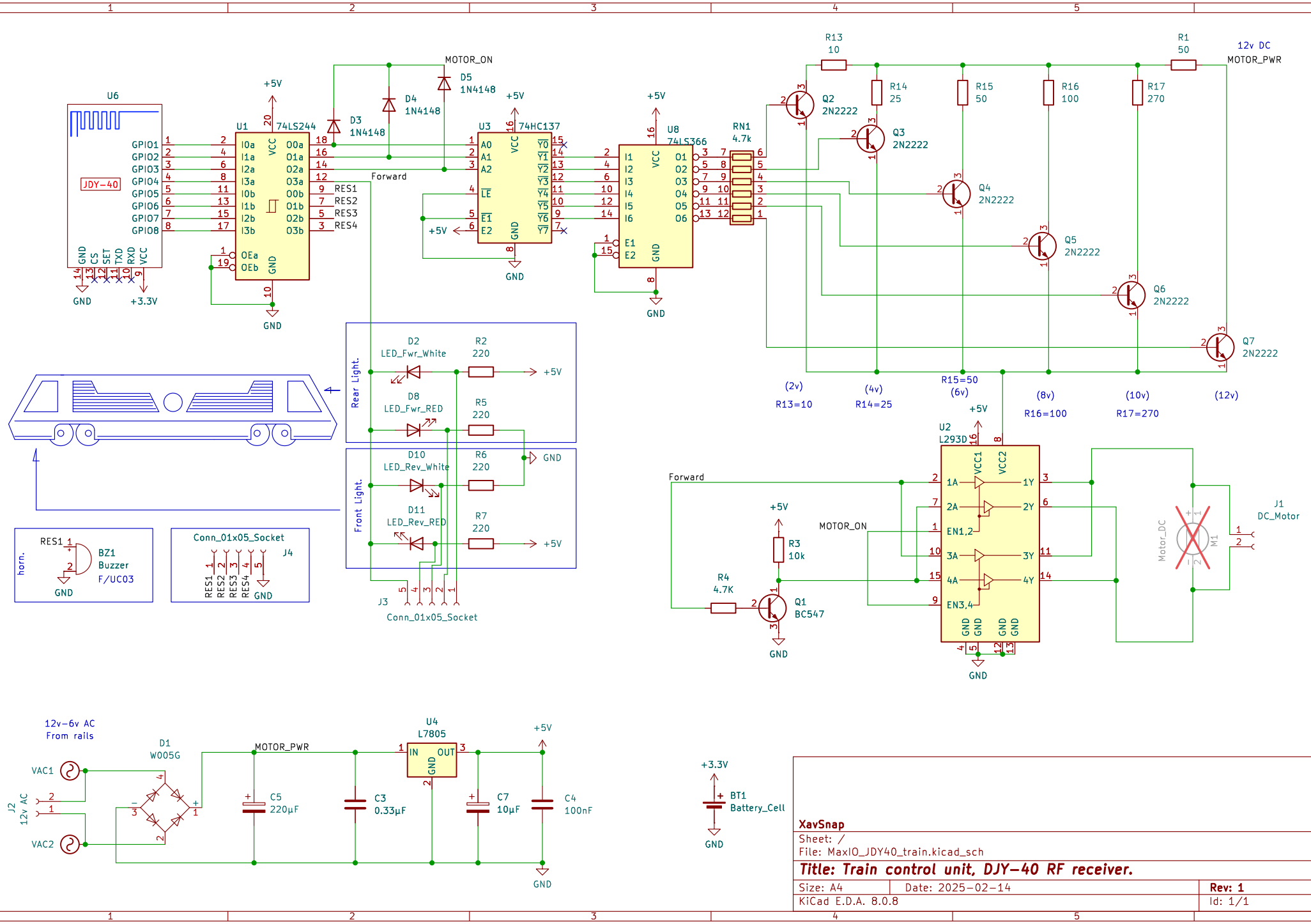
U6
JDY-40
GPIO1
GPIO2
GPIO3
GPIO4
GPIO5
GPIO6
GPIO7
GPIO8
GND
CS
SET
TXD
RXD
VCC
GND
+3.3V
U1
74LS244
+5V
GND
D3
1N4148
D4
1N4148
MOTOR_ON
D5
1N4148
U3
74HC137
Forward
RES1
RES2
RES3
RES4
U8
74LS366
RN1
4.7k
R13
10
R14
25
R15
50
R16
100
R17
270
R1
50
12v DC
MOTOR_PWR
Q2
2N2222
Q3
2N2222
Q4
2N2222
Q5
2N2222
Q6
2N2222
Q7
2N2222
(2v)
R13=10
(4v)
R14=25
R15=50
(6v)
(8v)
R16=100
(10v)
R17=270
(12v)
Rear Light.
D2
LED_Fwr_White
R2
220
D8
LED_Fwr_RED
R5
220
Front Light.
D10
LED_Rev_White
R6
220
D11
LED_Rev_RED
R7
220
J3
Conn_01x05_Socket
horn.
RES1
BZ1
Buzzer
F/UC03
Conn_01x05_Socket
J4
U2
L293D
VCC1
VCC2
1A
2A
EN1,2
3A
4A
EN3,4
1Y
2Y
3Y
4Y
Forward
MOTOR_ON
R3
10k
R4
4.7K
Q1
BC547
Motor_DC
M1
J1
DC_Motor
12v–6v AC
From rails
D1
W005G
VAC1
VAC2
J2
12v AC
MOTOR_PWR
C5
220µF
C3
0.33µF
U4
L7805
IN
OUT
GND
C7
10µF
C4
100nF
BT1
Battery_Cell
XavSnap
Sheet: /
File: MaxIO_JDY40_train.kicad_sch
Title: Train control unit, DJY–40 RF receiver.
Size: A4
Date: 2025–02–14
Rev: 1
KiCad E.D.A. 8.0.8
Id: 1/1