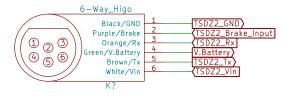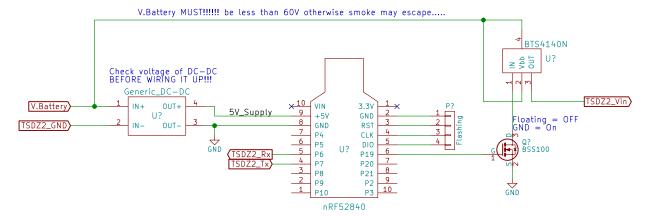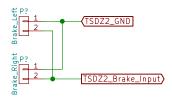If you have the TSDZ2 with the throttle option you will
have the 8-Way cable. If you don't have a throttle, you
are more likely to have the 6-Way cable.
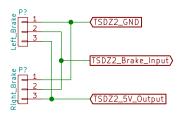
8-Way_Higo

Pin	Wire	Signal
1	Black/GND	TSDZ2_GND
2	Blue/V.Battery	V.Battery
3	Red/Vin	TSDZ2_Vin
4	Yellow/Rx	TSDZ2_Rx
5	White/5V	TSDZ2_5V_Output
6	Green/Brake	TSDZ2_Brake_Input
7	Orange/Throttle	✕
8	Brown/Tx	TSDZ2_Tx

K?

NOTE!!! Wire colouring and pin numbers
may change! Always check with a meter first.

6-Way_Higo

Pin	Wire	Signal
1	Black/GND	TSDZ2_GND
2	Purple/Brake	TSDZ2_Brake_Input
3	Orange/Rx	TSDZ2_Rx
4	Green/V.Battery	V.Battery
5	Brown/Tx	TSDZ2_Tx
6	White/Vin	TSDZ2_Vin

K?

Brake_Left P?
1
2
TSDZ2_GND

Brake_Right P?
1
2
TSDZ2_Brake_Input

NOTE - The brake input to the TSDZ2 is pulled up to 5V
by a resistor inside the motor controller. Pull the input
to GND to activate. This is normally done with a switch
(2-Pin Connector). If you have the 8-Way Higo cable
you can use a via a powered brake sensor with 3-wires.

Left_Brake P?
1
2
3
TSDZ2_GND

Right_Brake P?
1
2
3
TSDZ2_Brake_Input
TSDZ2_5V_Output

NOTE!!!! Pinout will depend on powered brake-sensor model - check first!

V.Battery MUST!!!!!! be less than 60V otherwise smoke may escape.....

Check voltage of DC-DC
BEFORE WIRING IT UP!!!

Generic_DC-DC

V.Battery
| 1 | IN+ | OUT+ | 4 |
TSDZ2_GND
| 2 | IN- | OUT- | 3 |
U?

GND

5V_Supply

nRF52840

		U?		
✕ 10	VIN	3.3V	1 ✕
9	+5V	GND	2
8	GND	RST	3
7	P4	CLK	4
6	P5	DIO	5
5	P6	P19	6
4	P7	P20	7
3	P8	P21	8
2	P9	P2	9
1	P10	P3	10

TSDZ2_Rx
TSDZ2_Tx

P?
Flashing
1
2
3
4

BTS4140N
4
IN Vbb OUT
1 2 3
U?

TSDZ2_Vin

Floating = OFF
GND = On

Q?
BSS100

GND