FLCS WIRING

		USED WIRE CLR	Function	To Pin	Comments
HANDLE (5)WIRE	✓	RED	CS/SR	F7 CS	
	✓	ORG	SCK	ICSP PIN 3 SCK	ICSP HEADER (see diagram)
(3) 4021 Shift Reg Chips	✓	YELLOW	MISO	ICSP PIN 1 MISO – use any Digital Pin if using TLE5010 on Axis.	
	✓	GREEN	GND	ICSP PIN 6 GND	
	✓	BROWN	PWR/V+	ICSP PIN 2 VCC+	edge of ↑ Arduino
ORIG. POTS: AXIS		RED	POT AXIS (REAR)	F5 / A2	middle wire on Pot = axis. Other Pins are GND + PWR
ORIG. POTS: AXIS		BLUE	POT AXIS (Front)	F6 / A1	
ORIG. POTS: PWR		YELLOW	Pot Power	5V+ PIN (common)	RH WIRE ON POT
ORIG. POTS: GND		BLACK	Pot Ground	GND PIN (common)	LH WIRE ON POT
3 Button Board		BLUE	COMMON/ROW	D2 / 0	3 WIRES CONNECTED
BTN 1		WHT		B7 / 11 (CAN USE IN BTN MATRIX)	
BTN 2		BLK		D6 / 12 (CAN USE IN BTN MATRIX)	← USE TO ADD MORE BTNS
BTN 3		PURPLE		C7 / 13 (CAN USE IN BTN MATRIX)	
* OFF CORNER OF BOARD		BLUE (CNR)	RESET BTN	RESET	ARDUINO RESET BTN
		GREEN (CNR)	GND	GND	
DOWNLOAD BTN TOGGLE SWITCH		GREY		B5 / 9	(see LED diagram)
		WHITE		B4 / 8	
2X TLE 5010 MAG SENSOR BOARDS		GRAY	TLE GEN	B6 / 10 ***DO NOT ATTACH HANDLE MISO TOO	
		BROWN	TLE SCK	B1 / ICSP3	* PIN OUT ABOVE
		BLUE	TLE MISO	B3 / ICSP1 ←	
JOYSTICK AXIS'S (2 wires)		YELLOW / PUR	TLE CS	YELL D3/1 + PUR D1/2	ALL WIRES EXCEPT 2 CS ARE COMMON → ie tyed together and run to pin
		ORG	GND	ICSP 6	
WHT		WHT	PWR	ICSP 2