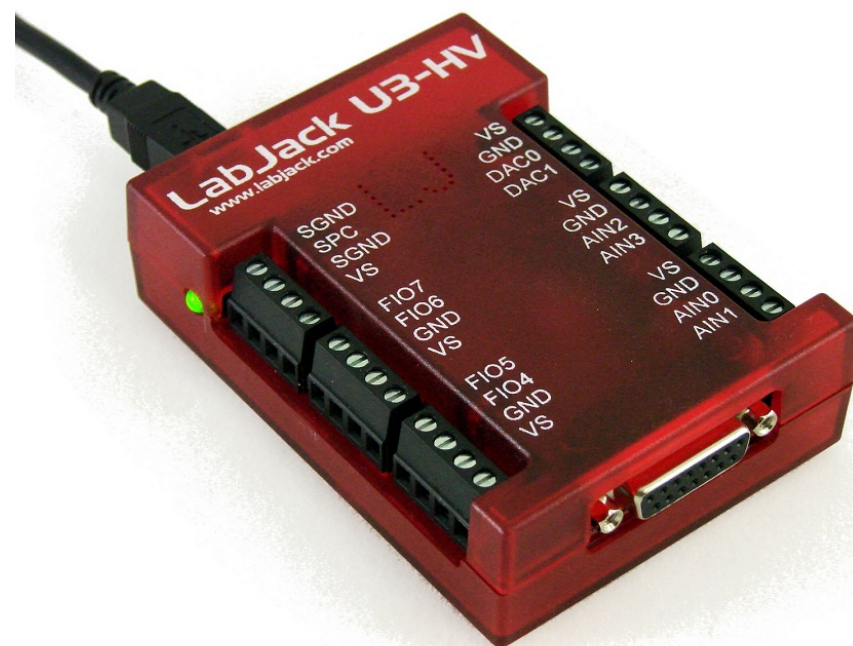
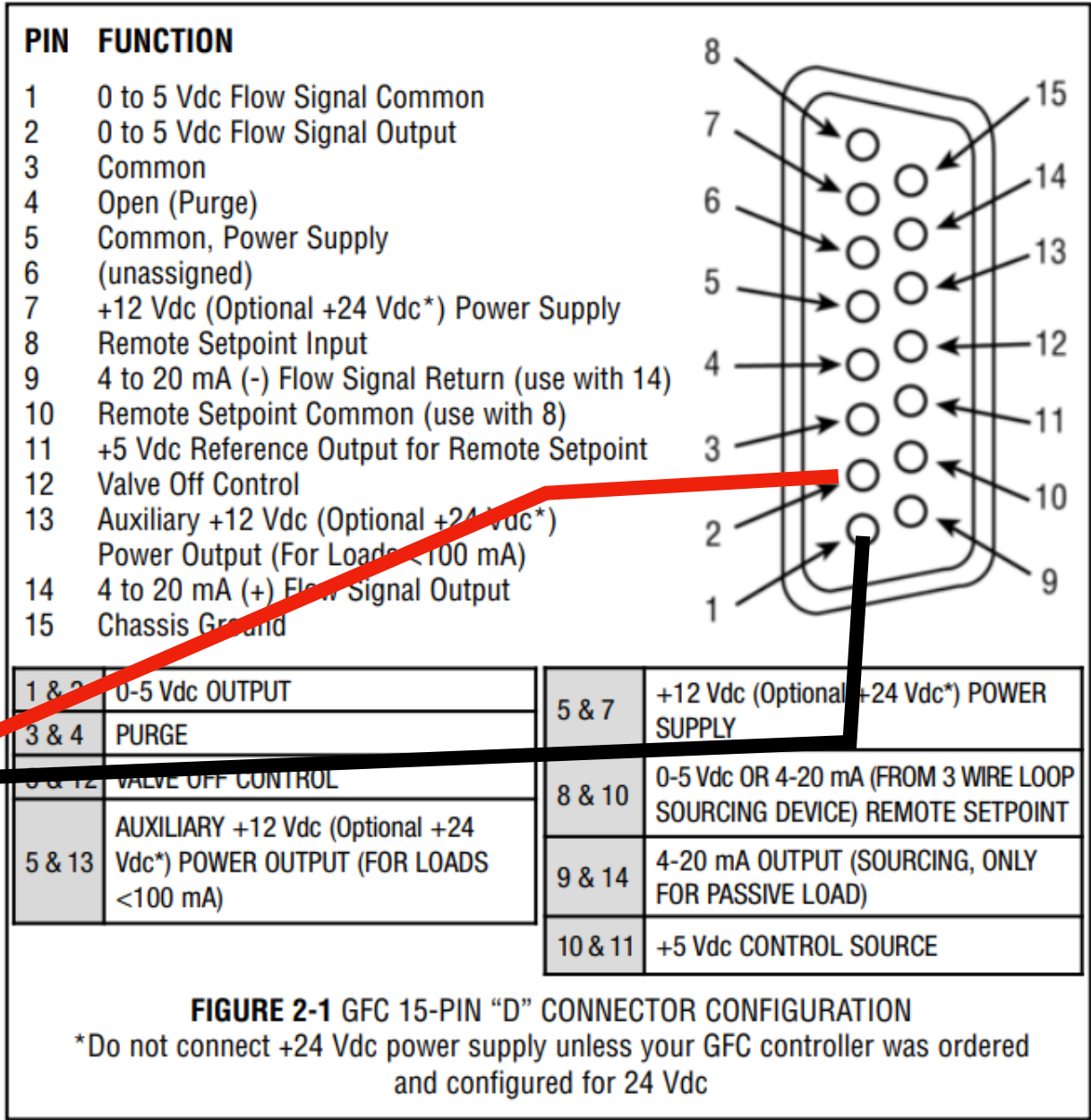
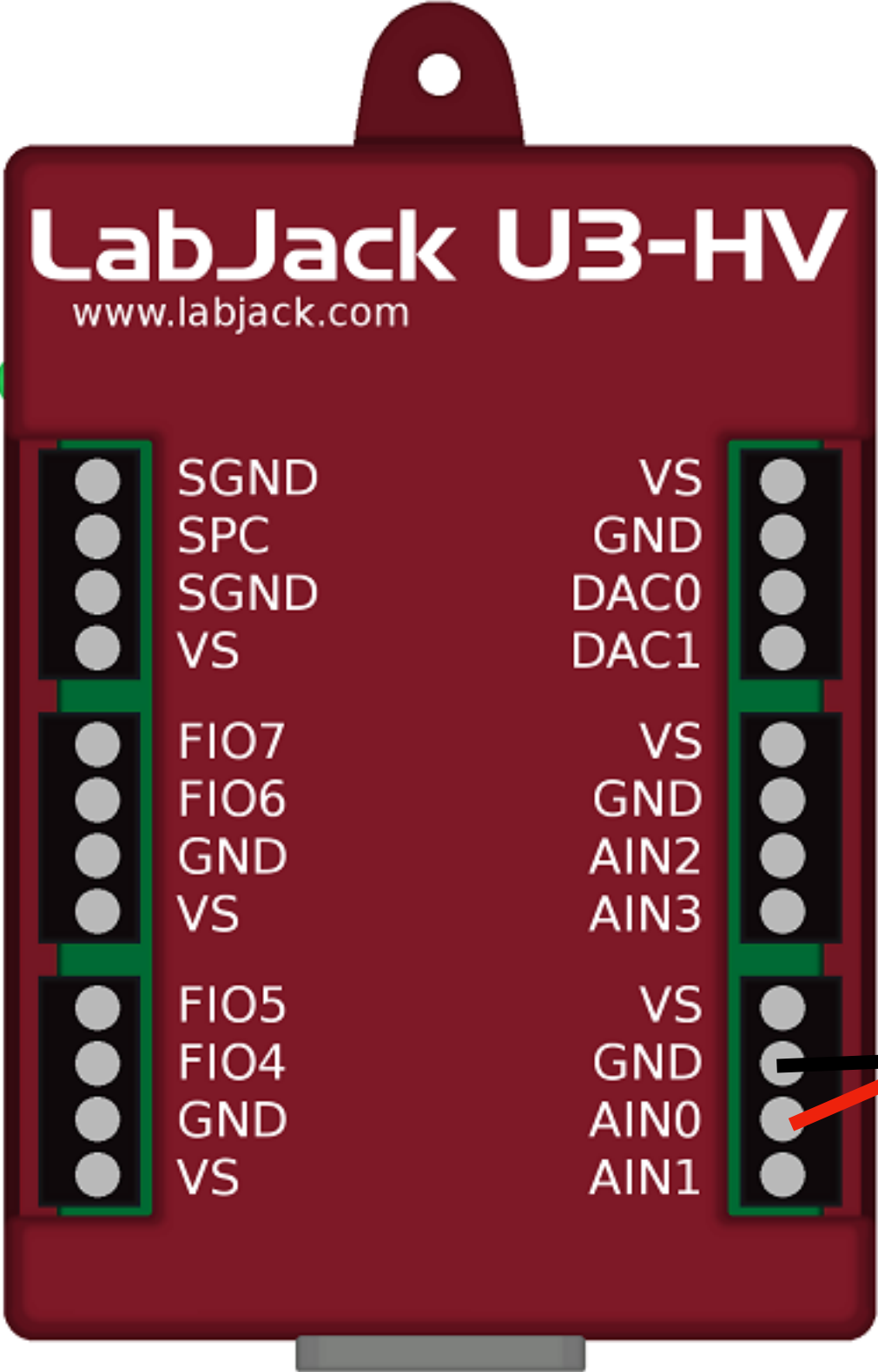


Using the LabJack to read and/or control the Aalborg MFC

https://github.com/Princeton-Penn-Vents/mfc_io

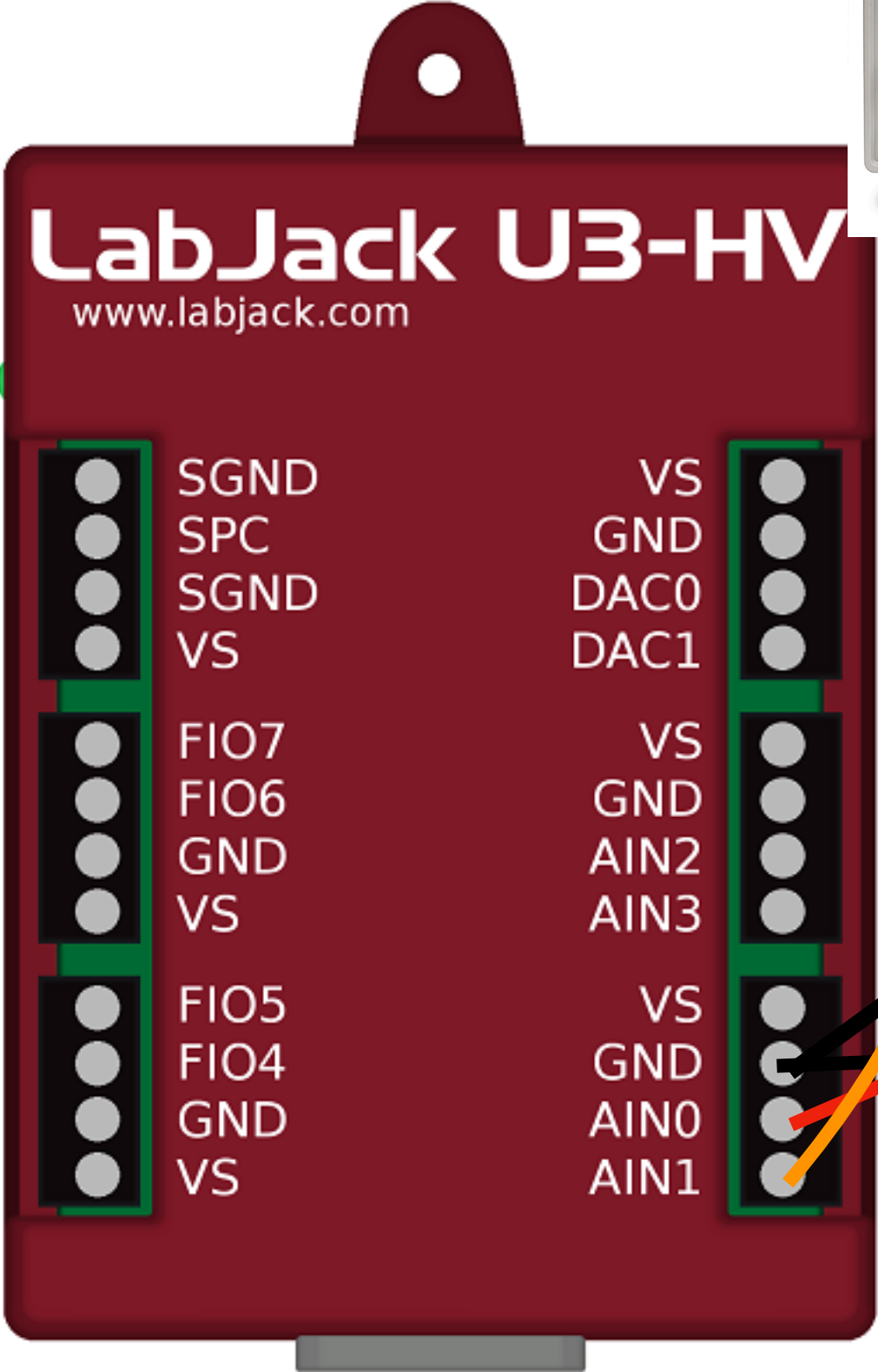
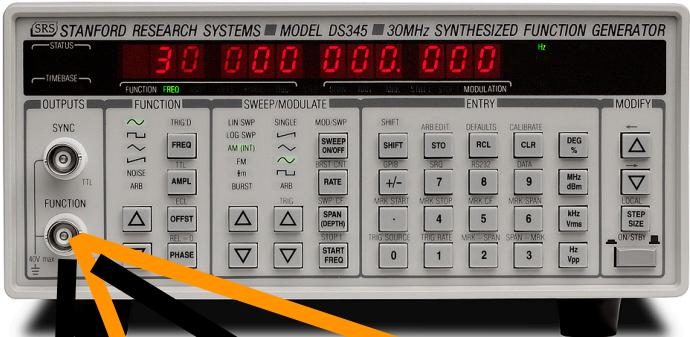


Read MFC



Read MFC & Use. External Function Generator To Drive MFC

NOTE: SRS D5345
Expects 50 OHM Impedance
Output Voltage will be DOUBLE display



PIN FUNCTION

1	0 to 5 Vdc Flow Signal Common
2	0 to 5 Vdc Flow Signal Output
3	Common
4	Open (Purge)
5	Common, Power Supply
6	(unassigned)
7	+12 Vdc (Optional +24 Vdc*) Power Supply
8	Remote Setpoint Input
9	4 to 20 mA (-) Flow Signal Return (use with 14)
10	Remote Setpoint Common (use with 8)
11	+5 Vdc Reference Output for Remote Setpoint
12	Valve Off Control
13	Auxiliary +12 Vdc (Optional +24 Vdc*) Power Output (For Loads <100 mA)
14	4 to 20 mA (+) Flow Signal Output
15	Chassis Ground

1 & 2	0-5 Vdc OUTPUT	5 & 7	+12 Vdc (Optional +24 Vdc*) POWER SUPPLY
3 & 4	PURGE	8 & 10	0-5 Vdc OR 4-20 mA (FROM 3 WIRE LOOP SOURCING DEVICE) REMOTE SETPOINT
6 & 12	VALVE OFF CONTROL	9 & 14	4-20 mA OUTPUT (SOURCING, ONLY FOR PASSIVE LOAD)
5 & 13	AUXILIARY +12 Vdc (Optional +24 Vdc*) POWER OUTPUT (FOR LOADS <100 mA)	10 & 11	+5 Vdc CONTROL SOURCE

FIGURE 2-1 GFC 15-PIN “D” CONNECTOR CONFIGURATION
*Do not connect +24 Vdc power supply unless your GFC controller was ordered and configured for 24 Vdc

Read MFC & Computer Control Of MFC

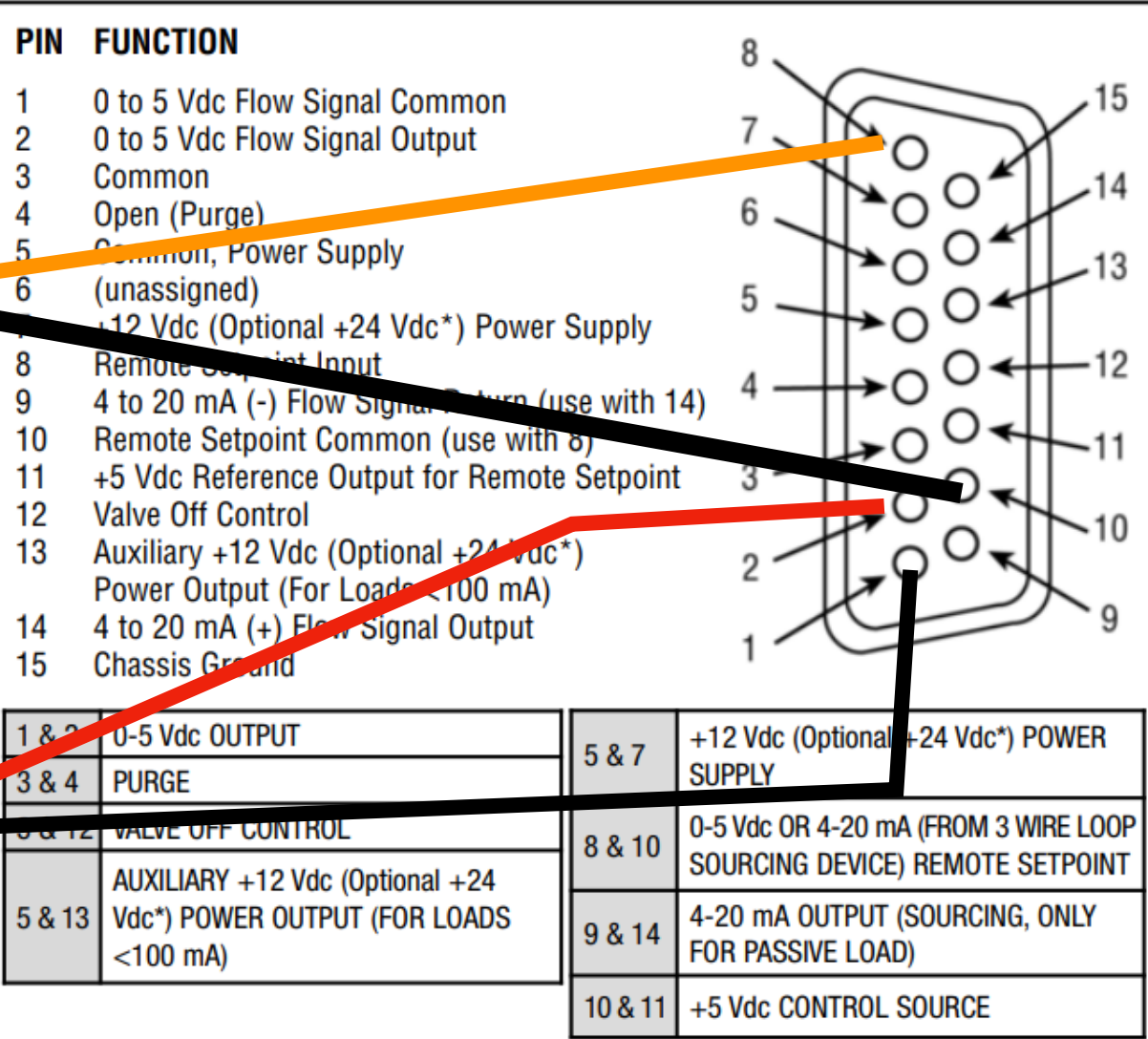
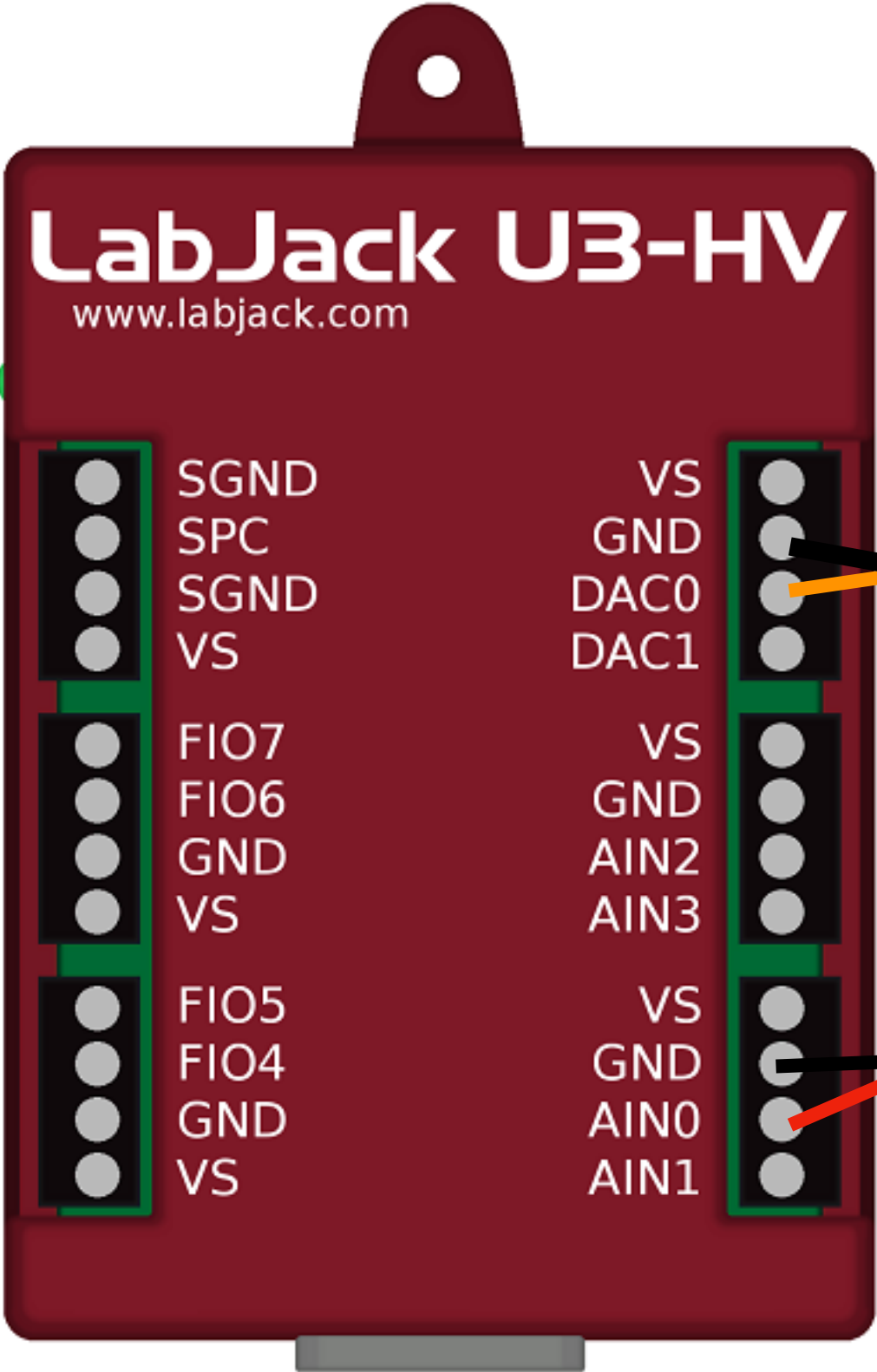


FIGURE 2-1 GFC 15-PIN “D” CONNECTOR CONFIGURATION
*Do not connect +24 Vdc power supply unless your GFC controller was ordered and configured for 24 Vdc