

Start-Up Kit QCI-DSB & QCI-DSBP for QCI-D2-IG, QCI-D2-IGF, QCI-D2-IGK and QCI-D2-IG8: Setup Instructions

This SilverDust Start-Up Kit provides a simple means to evaluate and prototype with a SilverDust D2 controller/driver (Not Included). The Basic Breakout Module (QCI-BO-B) mounts directly onto the SMI port on the SilverDust, which breakouts out the servo's power, I/O, and communications plus easy connection to a PC serial port.

This kit includes:

The QCI-DSB start-up kit includes:

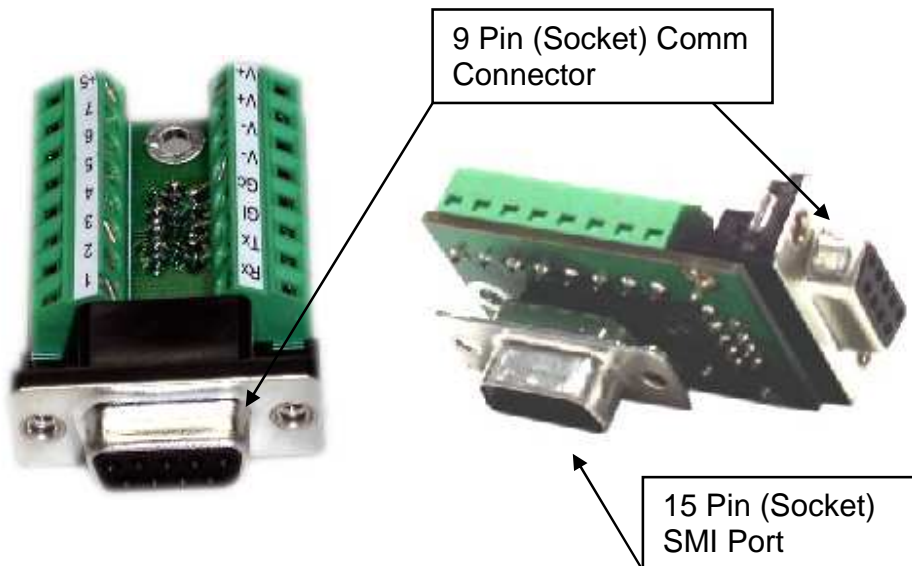
- Electronic copy of QuickControl® Software, Manual and Command Reference (QCI-EMAN)
- Communication Cable (QCI-C-D9M9F-6)
- 4' DB15HD Motor I/F Cable (QCI-C-D15P-D15S-4)
- Basic Breakout Module (QCI-BO-B) & Tech Doc (QCI-TD036)

The QCI-DSBP adds

- 210w power supply (S-210-48)
- power cable (QCI-C-ACP-FLY-6)

Note: Motor and Controller are Not Included

Basic Breakout Module (QCI-BO-B)

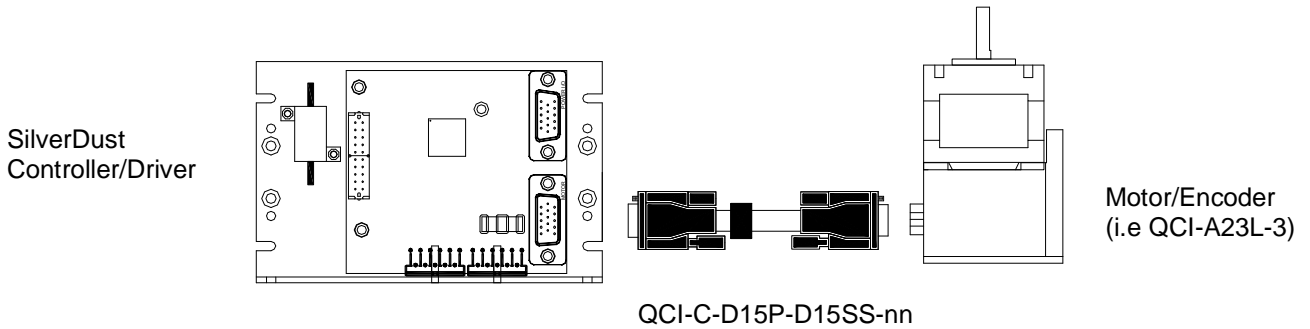


Technical document QCI-TD036 contains details on the Basic Breakout Module specifications.

Connections refer to the I-Grade SilverDust D2 controller / driver - used with NEMA 17 or 23 frame motors.

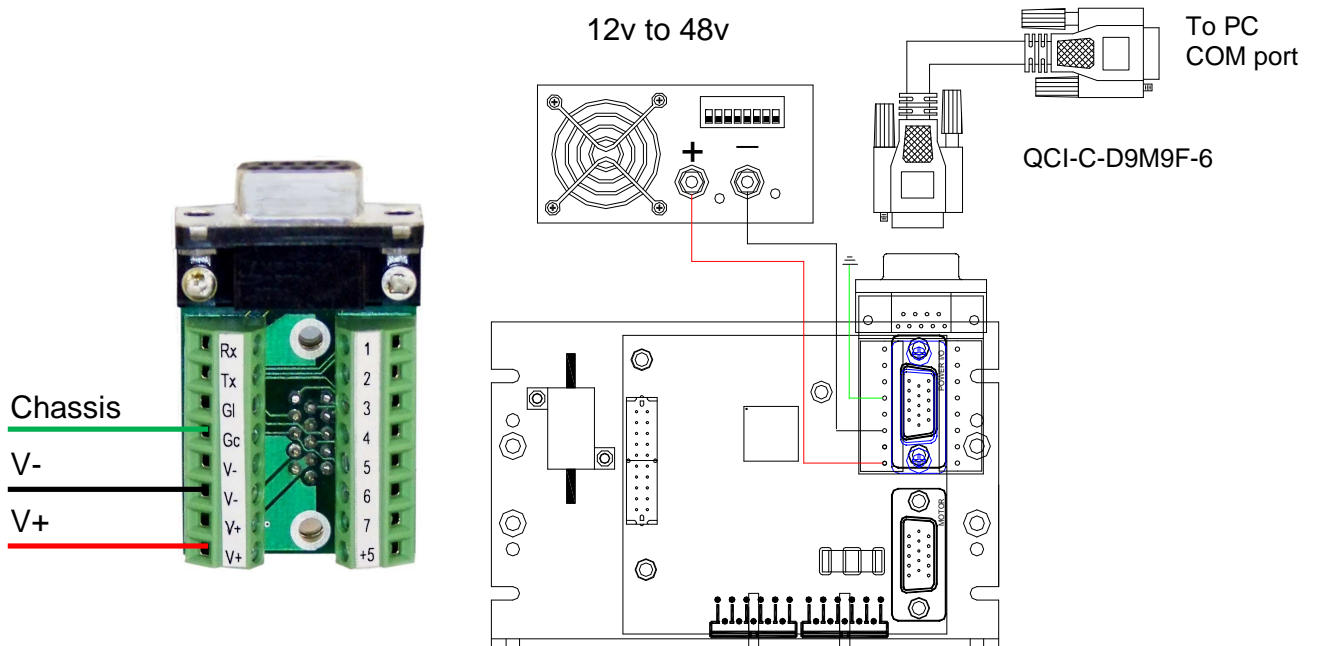
Warning: Make sure the power supply is OFF before making any connections

1. Connecting the SilverDust D2 to a 17 or 23 frame motor/encoder using the motor interface cable (QCI-C-D15P-D15S-nn).
 - a. Attach the pin side of the motor interface cable to the SilverDust MOT DB15.
 - b. Attach the other side of the motor interface cable to the motor/encoder DB15.



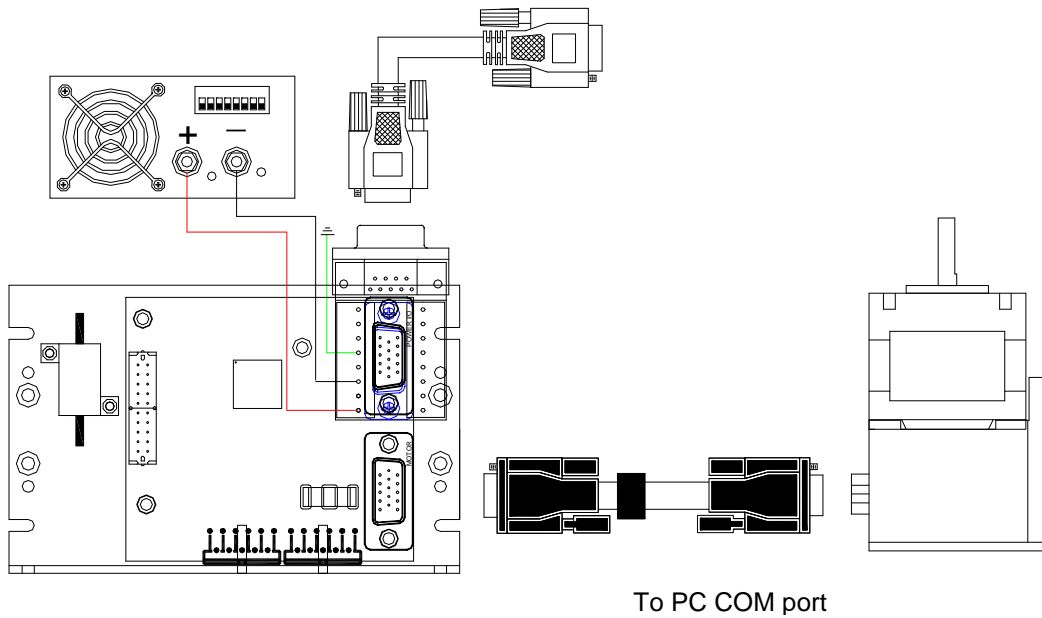
2. Connecting the power supply, Basic Breakout Module, SilverDust and PC COM port using the communication cable (QCI-C-D9M9F-6) for PC connection.

- a. Mount the Basic Breakout onto the SMI port on the SilverDust.
- b. Connect the pin side of the communication cable to the Basic Breakout DB9.
- c. Connect the other end of the communication cable to the PC COM port DB9.
- d. Wire the PS negative to V- terminal, then wire the positive terminal of the PS to the Basic Breakout V+ terminal. The positive power connection should be fused with a 7A fuse if the power supply output can exceed 8 Amps.
- e. Wire earth ground to the Basic Breakout's Chassis terminal.

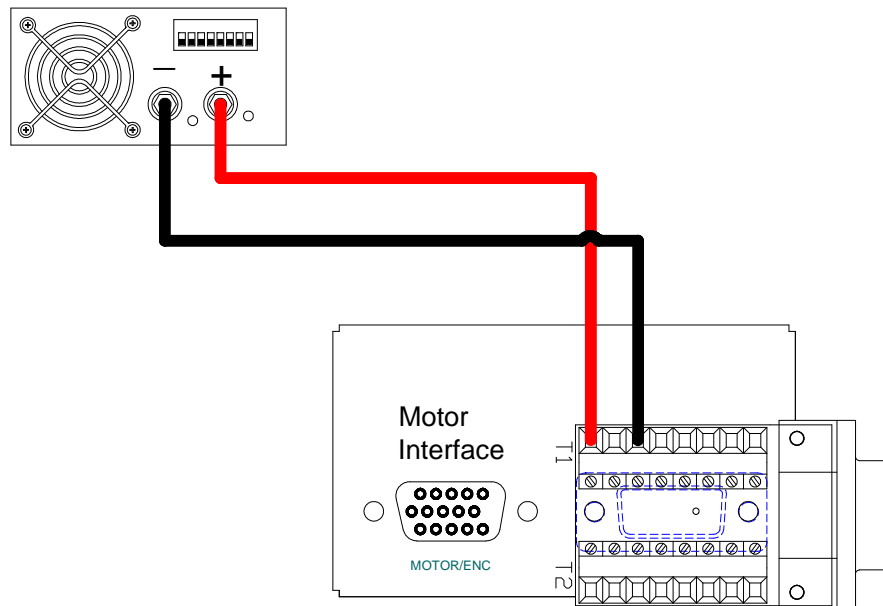


3. Connect power to power supply. See document S-210.pdf for power supply details.
4. Install QuickControl® and initialize servo (see Getting Started in the User Manual).

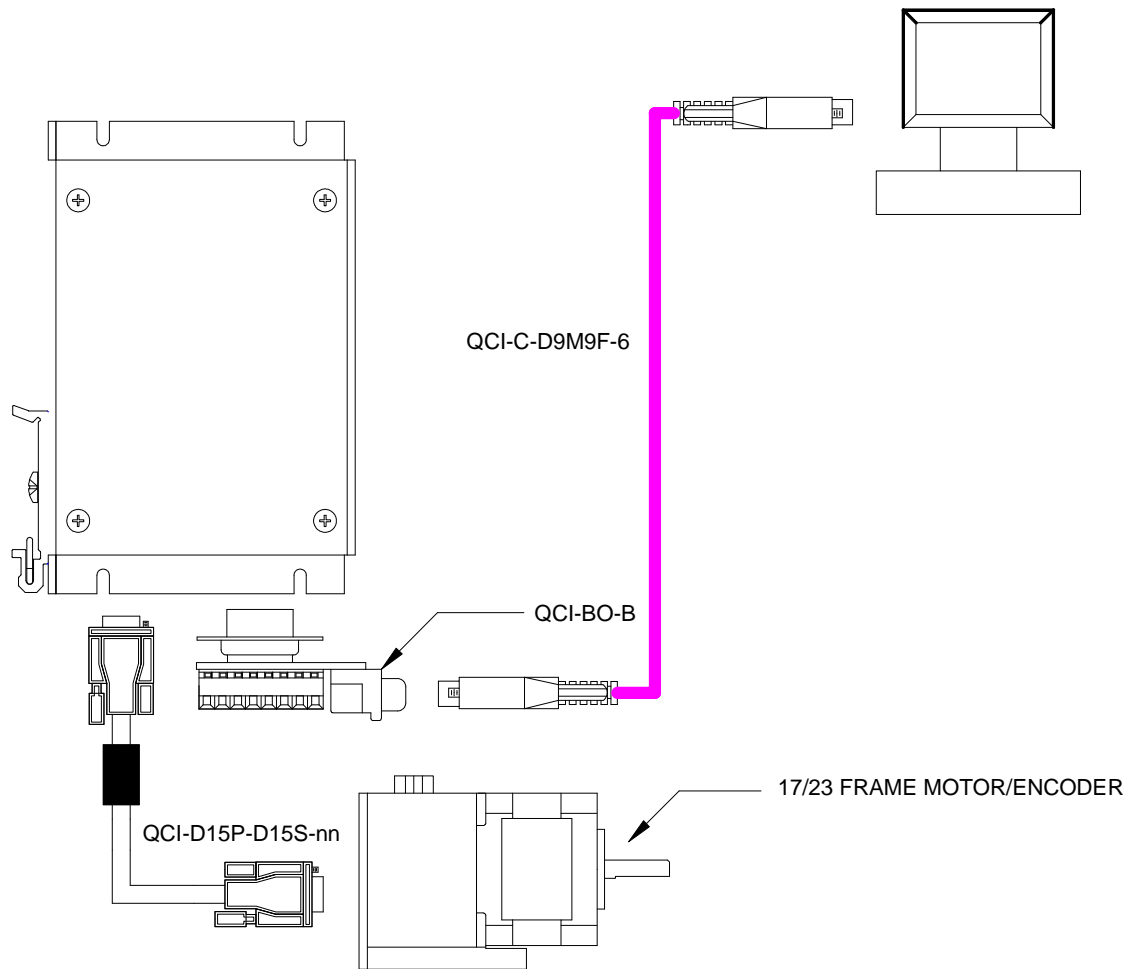
Finished Setup – QCI-D2-IG



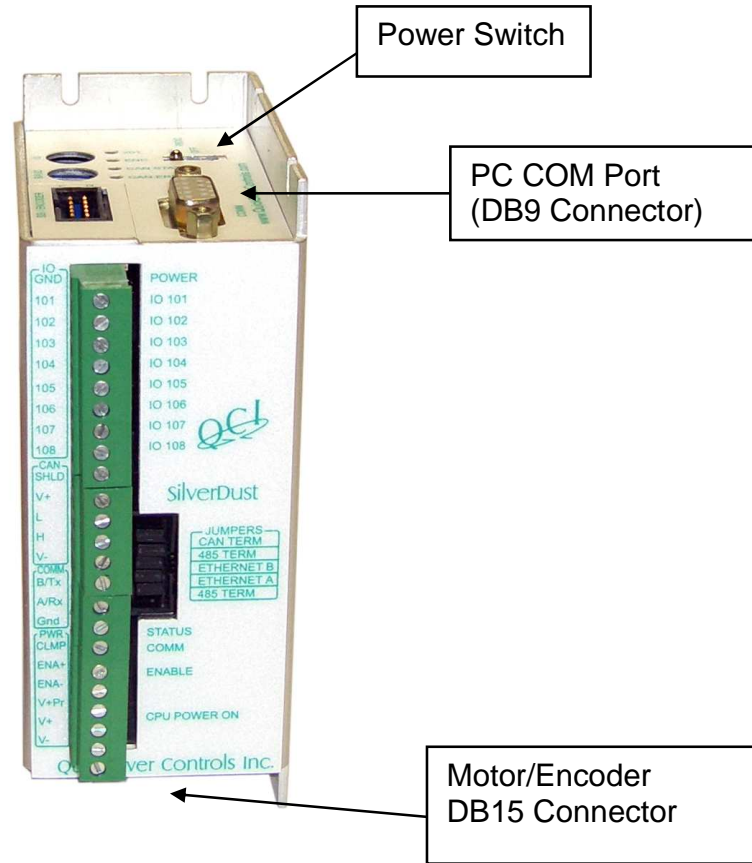
Power connections – QCI-D2-IGF, QCI-D2-IGK, optionally QCI-D2-IG8



Finished Setup – QCI-D2-IGF, QCI-D2-IGK



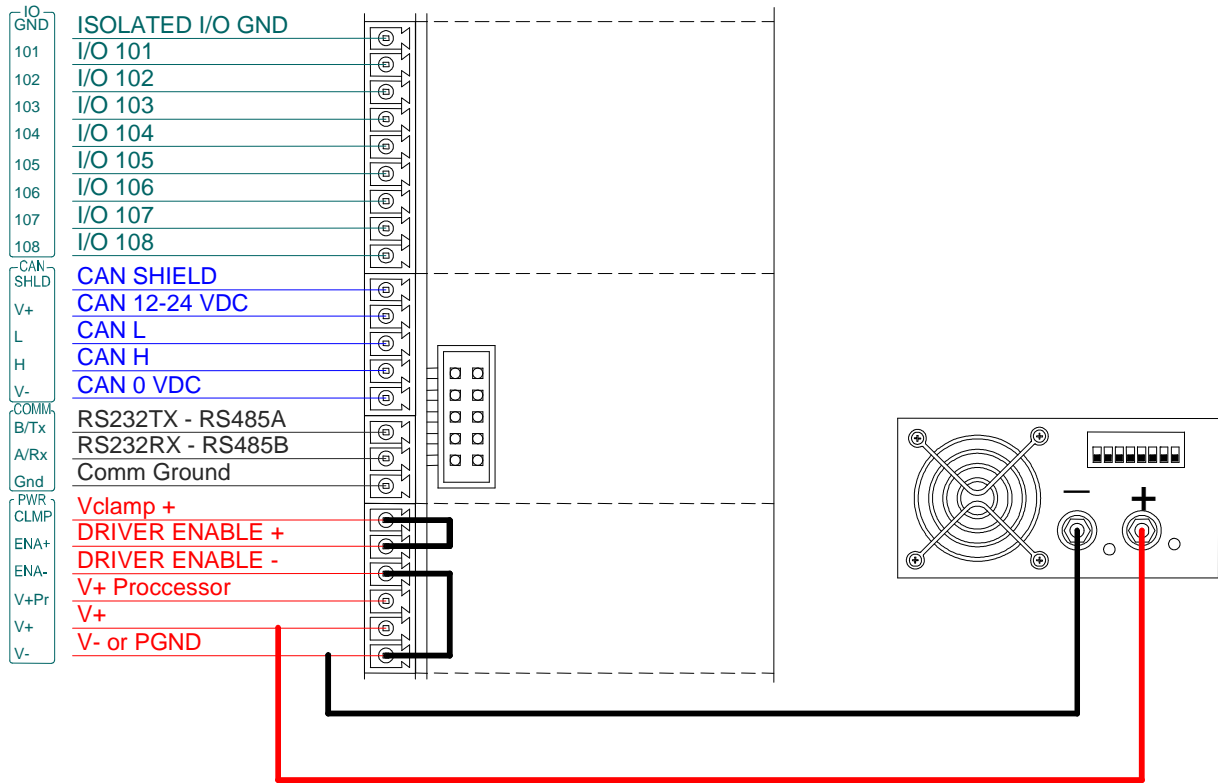
I-Grade SilverDust w/Breakout and CAN (QCI-D2-IG8)



The QCI-D2-IG8 is similarly connected, except that the driver enable must also be connected. Additionally, the power supply can be connected to either the QCI-BO-B breakout or to the front side power terminal strip. Likewise, the DB9 can be connected to either the DB9 COM Port connector on the QCI-D2-IG8 or to the DB9 connector on the QCI-BO-B.

- 2a. The QCI-D2-IG8 also requires a Driver Enable. This step needs to be performed before connecting power supply, step 3 above. Jumper the ENA+ to CLMP and ENA to V-. This drive enable input can alternatively be connected to an external 6 to 48v source to allow enabling and disabling of the motor driver. See Datasheet QCI-DS018 for Driver Enable usage.

Front Panel (FP)



Finished Setup – QCI-D2-IG8

