spanet

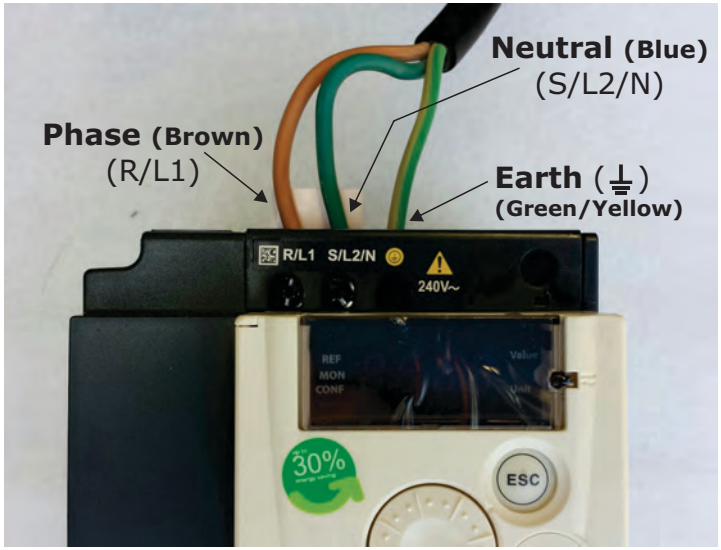
SV SERIES
SPA CONTROLS

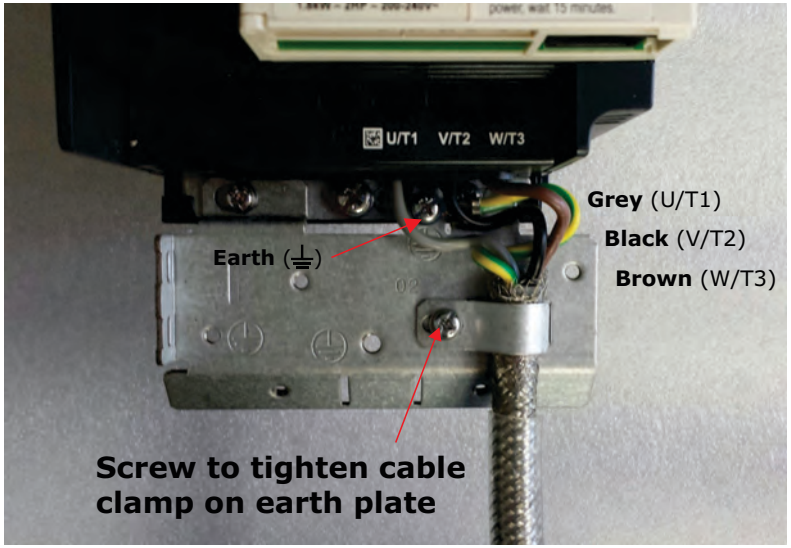
SV Series tech note:

Variable-Speed Drives Wiring Information

Wiring Instructions (power & pump)

Schneider Vari-Spd Drive (P/N: SCH-ATV12)





Connect AMP power cord to the top of the VSD

Connect pump cordset to bottom of vari-drive unit
NOTE: Ensure correct wiring sequence is used and bare braided wire is clamped to earth plate

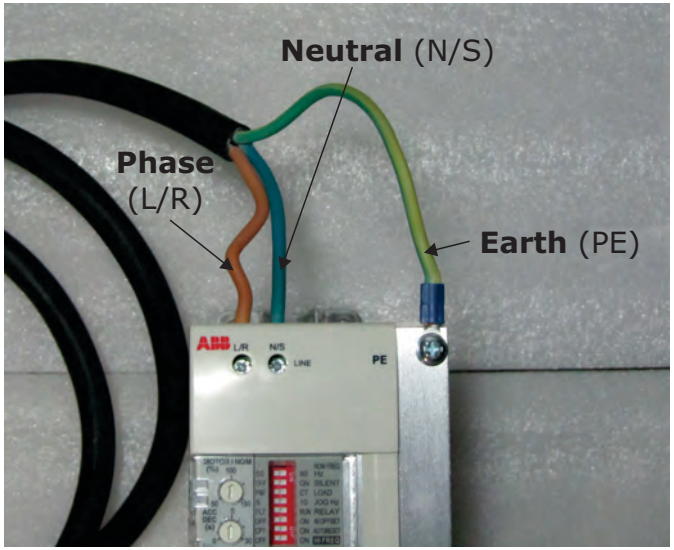
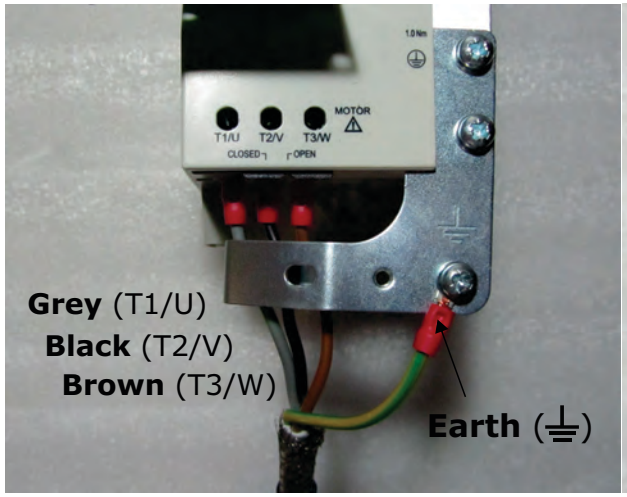
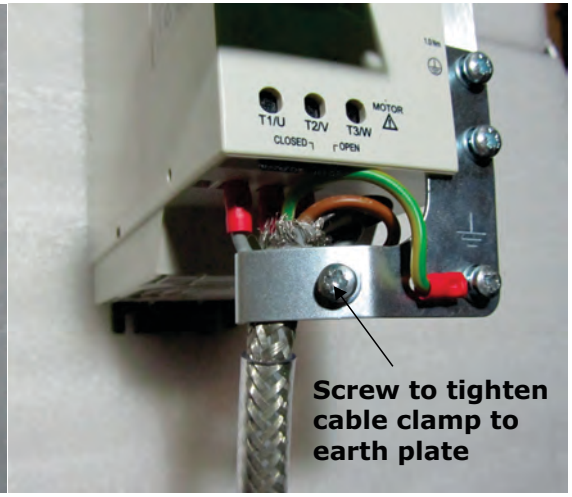


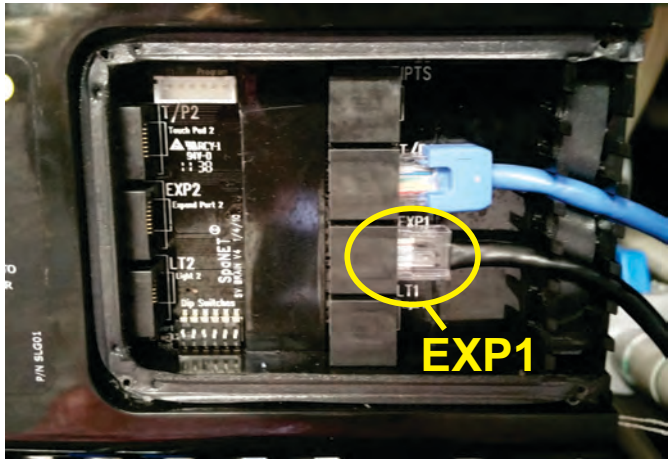
ABB Vari-Spd Drive (P/N: ABB-ACS55)



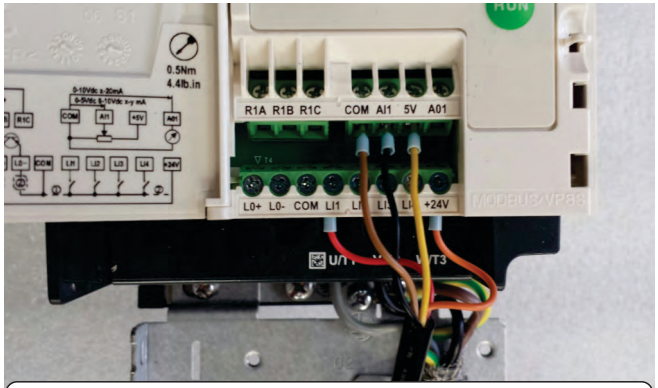


Wiring Instructions (Comms cable)

SV (V1) Controller using VSP interface box

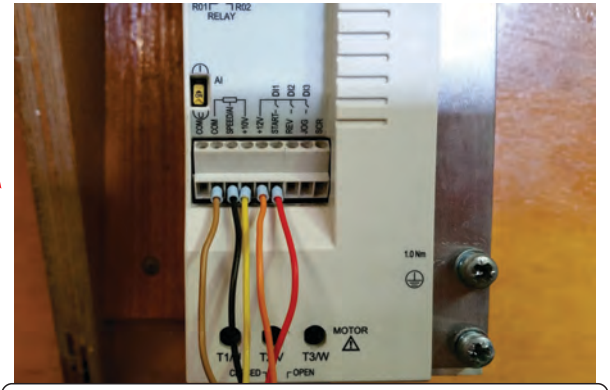


Schneider Vari-Spd Drive (P/N: SCH-ATV12)



Brown=COM Black=AI1 Yellow=5V
Red=LI1 Orange=+24V

ABB Vari-Spd Drive (P/N: ABB-ACS55)

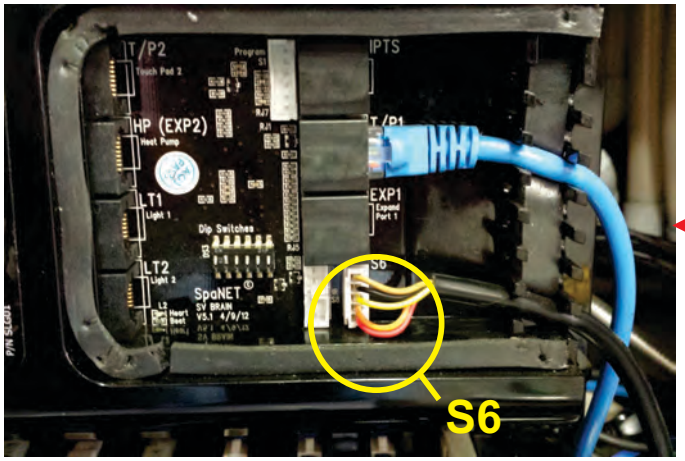


Brown=COM Black=Speed/AI Yellow=+10V
Orange=+12V Red=Start

Wiring Instructions (Comms cable)

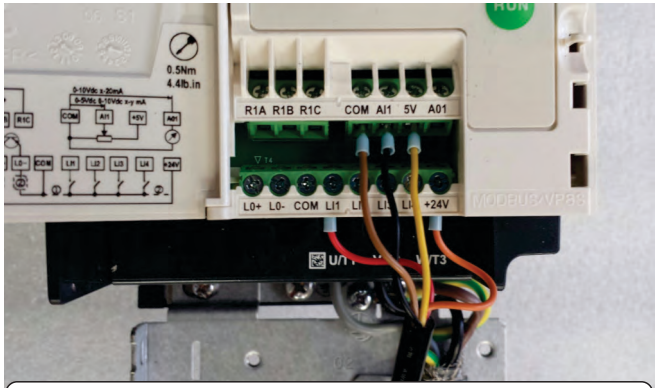
SV (V2) Controller using direct V2 comms cable

SV (V2) controller



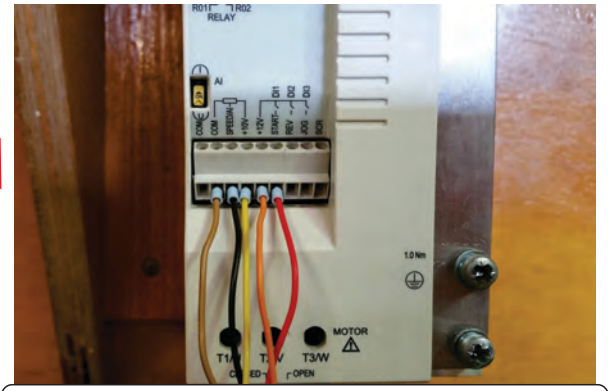
V2 Comms Cable (P/N: SV-VSP-V2C)

Schneider Vari-Spd Drive (P/N: SCH-ATV12)



Brown=COM Black=AI1 Yellow=5V
Red=LI1 Orange=+24V

ABB Vari-Spd Drive (P/N: ABB-ACS55)

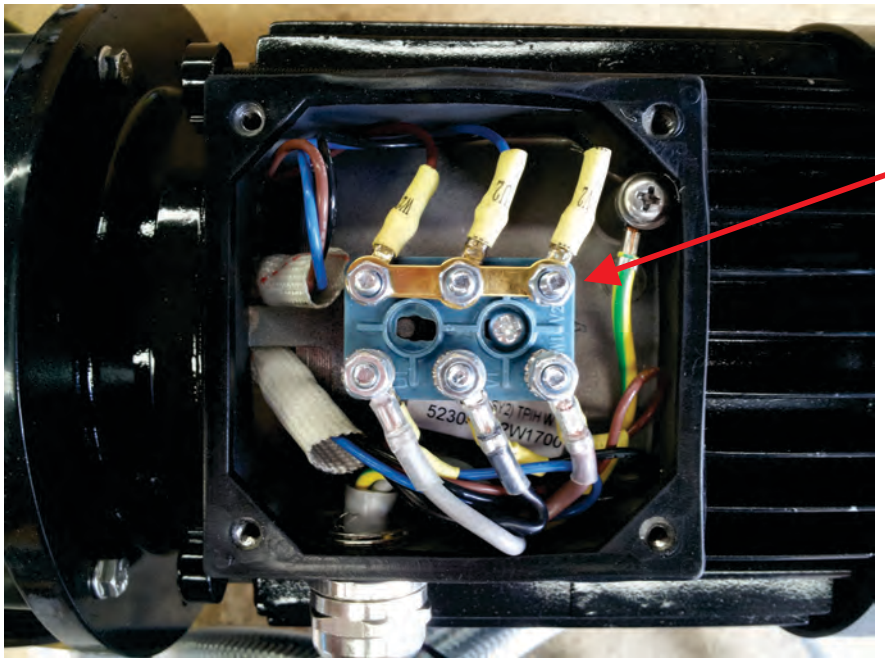


Brown=COM Black=Speed/AI Yellow=+10V
Orange=+12V Red=Start

Check linking plate configuration under pump cover

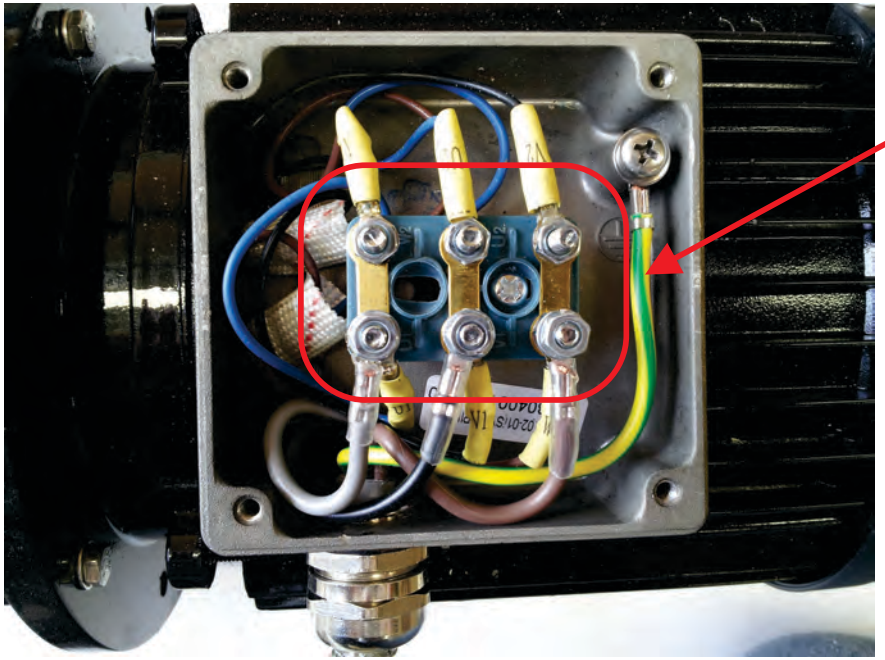
If the pump is accessible we recommend removing the pump lid and checking the brass linking plate configuration of the pump is set to the preferred Delta (220V) wiring rather than the original Star (380V) sequence

PLEASE NOTE: The pump will work successfully in either linking plate configuration so if access to the pump is difficult it is not necessary to carry out the following steps, however it is preferable if access can be achieved and the linking plates changed if not already set to Delta (220V)



This is the older original linking plate configuration.

To change unscrew the nuts holding the pump cable wires and reposition the linking plates across each terminal in a vertical manner instead of the horizontal position across one side.

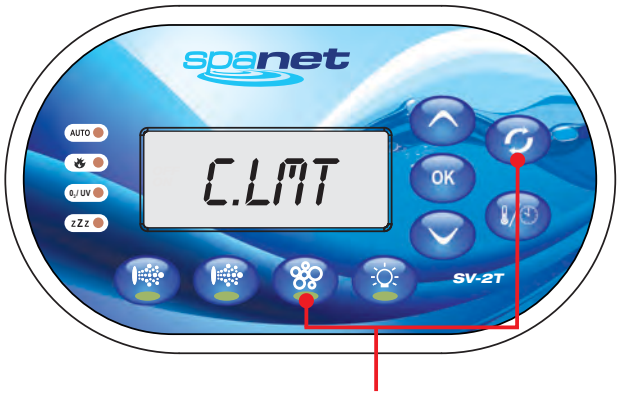


This is the new and preferred linking plate configuration with each linking plate going across the terminal block in a vertical manner.

If you forget the wire sequence it is listed in a label on the underside of the pump lid. Refer below (220V) sequence

Adjust speed settings in SV controller software

SV2-T



SV3-T

SV4-T

1. Power on SV controller
2. Press and hold: **BLOWER** + **W.CLN** buttons until [C.LMT] appears on the display
3. Press the **DOWN** button multiple times until [P.MIN] is displayed
4. Press the **OK** button to enter the P.MIN menu adjustment
5. Press the **UP** button and increase the setting to 031 then press **OK** button to confirm and save setting
6. Go through the menu and adjust P.FLT and P.HTR to those settings described below

HEAT PUMP **NOT** FITTED

P.MIN = 031
P.FLT = 032
P.HTR = 035

HEAT PUMP **FITTED**

P.MIN = 031
P.FLT = 035
P.HTR = 043