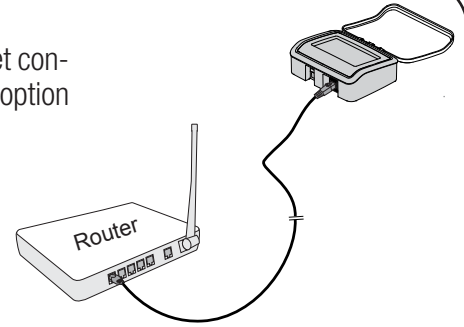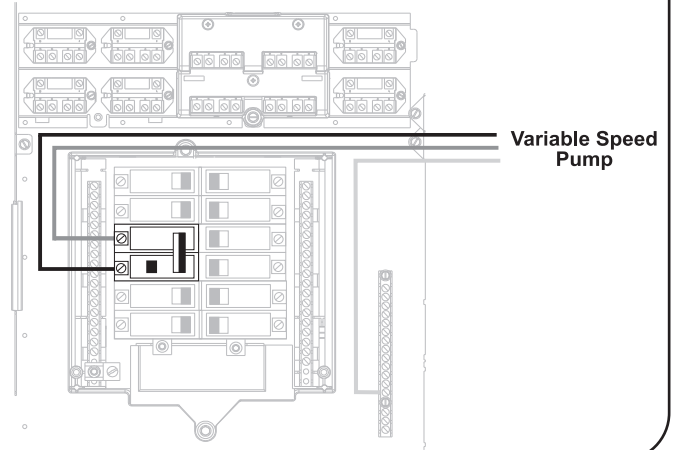# Read First...

If using Wireless...

Wireless connections in the backyard are inherently difficult and a hardwire ethernet connection from the access point/router to the OmniLogic is always preferred. If this option doesn't exist or wireless is desired, refer to the following:

- **Measure wifi speed at the installation site** - Before installing the OmniLogic, use your phone or other mobile device to test the speed of the desired 2.4GHz access point at the intended mounting location. Turn off Cellular Data to ensure that you are using wifi. Use a data speed testing app like "Speedtest" by Ookla. Run the test to get an actual upload and download speed.

- **Ensure wifi speed is over 3Mbps** - If the app shows speeds lower than 3Mbps, look for an alternate mounting location. Consider using an app like "Wifisweetspot" or "Net Analyzer" to find a suitable mounting location.

- If speeds are still too slow, other solutions like range extenders/repeaters or powerline adapters may be necessary. These home network solutions were developed to extend the wifi range of a variety of home devices and if set up properly, can be used to increase the speeds at the installed location. Refer to the manufacturer's instructions for more information on these alternatives.

Router

Before you Wire a Variable Speed Pump (VSP)

- <u>DO NOT</u> **wire the VSP to a high voltage relay.**

- VSP power must come directly from a GFCI breaker supplying constant power (as shown) and load must not exceed circuit breaker's rating.

- The Hayward VSP's low voltage control wiring must be wired to the OmniLogic's low speed bus connector as shown on the other side of this sheet.

- If using OmniLogic to control a Hayward VSP, the VSP's display must be removed (excluding EcoStar and 1st generation TriStar pumps).

Variable Speed Pump

Before you Begin Operation

current firmware version

SPA

90 °F

themes

71° F air

config

config wizard	display
system info	network
backup config	web server
restore config	date/time

SYSTEM configuration

1 / 2

msp id:3233

component	HUA	version
MSP	00-46-01-21-a0	R 3.1.1
MP	1-65-0-2a-d4	R 1.0.2
Relays	3-10-0-0-1	R 1.0.2
VSP	10-0-0-0-4e	R 3.0.4
Wired Wall Mo..	33-41-1-e7-42	R.3.0.0

SYSTEM INFO

Check and Update your Firmware

The OmniLogic's firmware is its basic operating system. This OmniLogic was shipped with the version of firmware that was available at the time of release. There may be a newer version available and if so, we encourage you to upgrade. Go to https://www.hayward.com/firmware to download the latest OmniLogic firmware files. Refer to the Release Notes on that page for upgrade instructions. Upgrading firmware can be performed before or after Configuration but should be done before the OmniLogic begins normal operation.
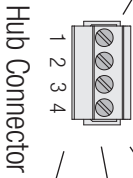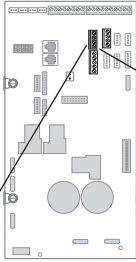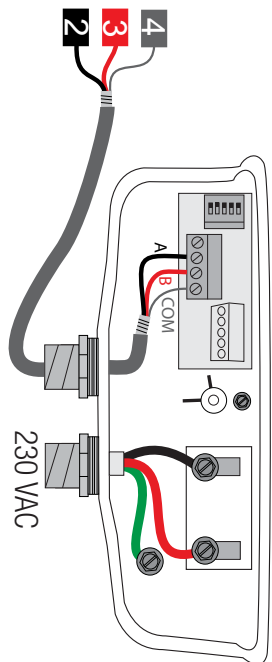
VSP Communication Wiring

VSP Communication Wiring

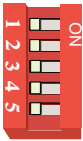| Pump Model	Hub Conn.	Pump Conn.
TriStar® VS 950 Omni (before Jan 2019)	2	7
	3	8
	4	1
*TriStar® VS 950 Omni (after Jan 2019) *TriStar® VS 900 Omni *Super Pump® VS 700 Omni *MaxFlo VS 500 Omni	2	A
	3	B
	4	COM

* Disconnect onboard display and set all dipswitches to OFF position.
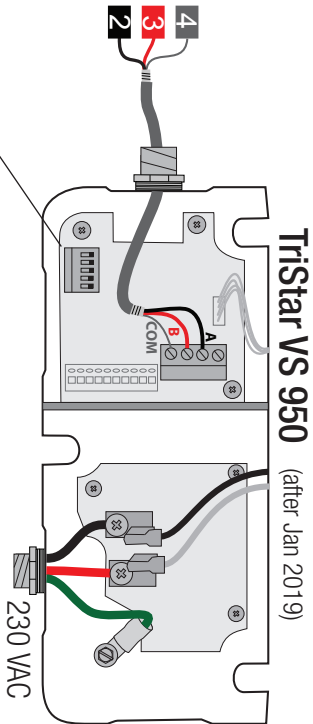
Use a 3 conductor properly rated cable for connection from OmniLogic to the VSP.
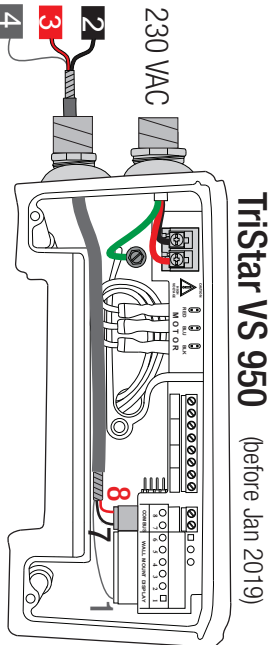
Hub Connector

For pump models with dipswitches, set all switches to OFF position (as shown). Remove the display cable. Use the spare connector taped to the display cable for the communication cable connection.

ON
1 2 3 4 5

TriStar VS 950 (before Jan 2019)

230 VAC

TriStar VS 950 (after Jan 2019)

230 VAC

B COM A

TriStar VS 900, Super Pump VS 700, MaxFlo VS 500

230 VAC

A B COM