Section 1: Description

The Endless Pools Fit@Home app works with your mobile device to control your Endless Pool swim current and underwater treadmill. The app allows you to create and customize workouts with multiple exercises and intervals to accommodate your personal needs. The simple installation of the Wi-Fi kit gives you the ability to utilize the Fit@Home app to conveniently control all aspects of your Endless Pool workouts.

Section 2: Parts List

(1) Wi-Fi Card   (1) Board to Board Communication Cable (If Applicable)
(1) Wi-Fi Cable Assembly   (2) Liquid-Tight Fittings (If Applicable)
(1) Sealing Washer
(1) Antenna

Section 3: Wi-Fi Kit Installation Instructions

⚠️ **WARNING**   **Electrical power MUST be shut off to the pool prior to doing any work on the pool**.

1. Locate the Hydraulic Power Unit Controller (Fig. 1). Remove the front cover by unthreading the (4) screws around the perimeter of the enclosure. On the left side of the controller's enclosure, punch out the small knockout using a hammer and screwdriver (Fig. 2). If a swim current and treadmill have been purchased with two separate hydraulic power units, the Wi-Fi card MUST be installed inside the treadmill controller. A board to board communication cable will then be installed between the two separate controllers. Punch out the communication cable knockouts on both the swim current and treadmill controllers (Fig. 2). If a swim current and treadmill have been purchased with a tandem hydraulic power unit, the Wi-Fi card will be installed on the treadmill circuit board (Fig. 3).
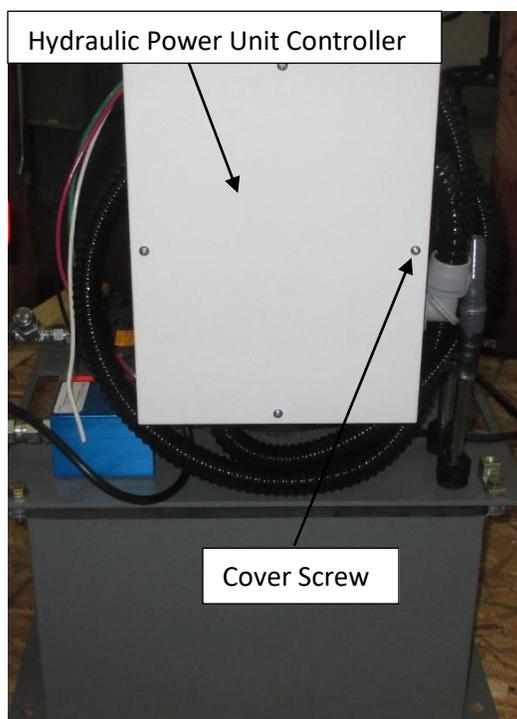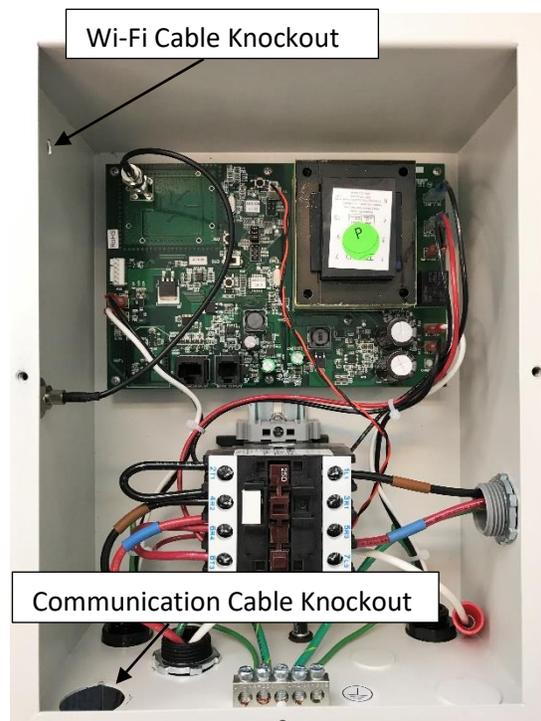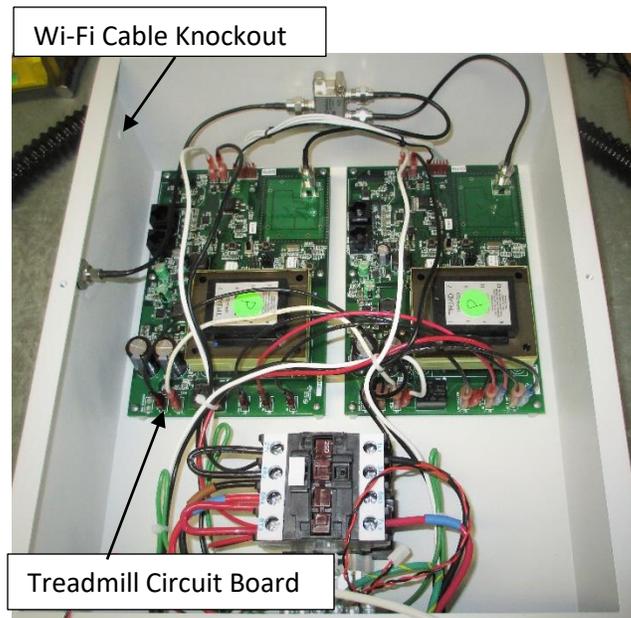

Fig 1

Fig 2

Fig 3

2. Install the sealing washer on the male end of the Wi-Fi cable making sure the rubber side of the washer is facing out (Fig. 4).
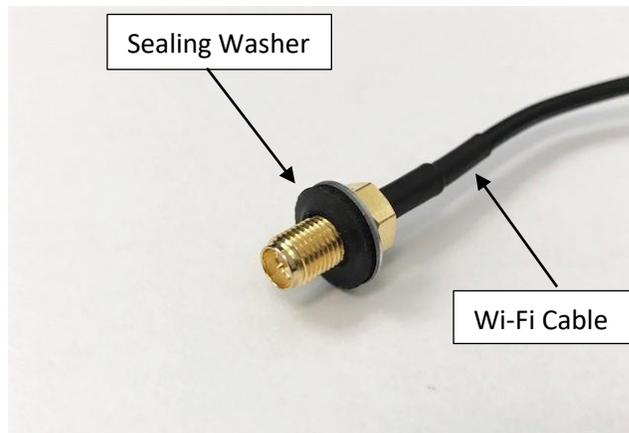

Fig 4

3. From inside the enclosure of the controller, route the male end of the Wi-Fi cable through the knockout on the side of the enclosure (Fig. 5).
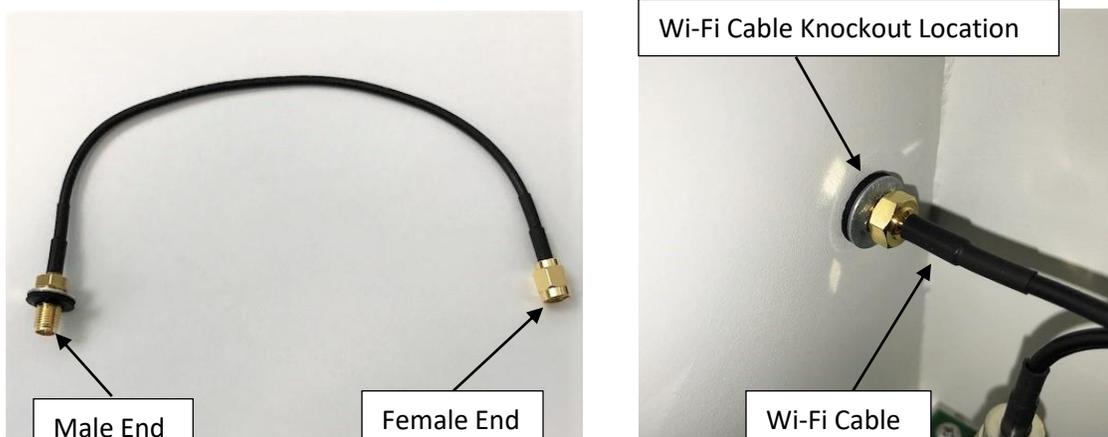

Fig 5

4. On the outside of the controller's enclosure, install the provided washer and nut onto the Wi-Fi cable. Tighten the nut with a small wrench to secure the Wi-Fi cable to the enclosure (Fig. 6).

Wi-Fi Cable

Washer

Nut

Tighten Nut
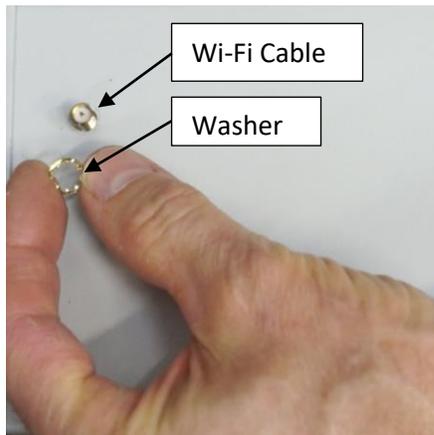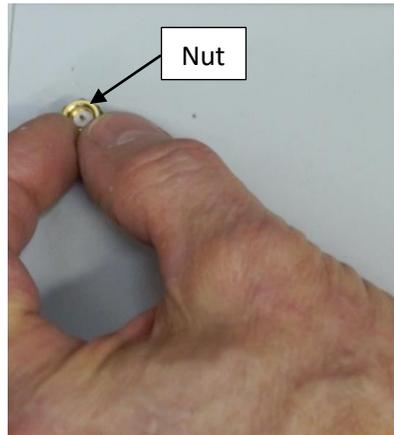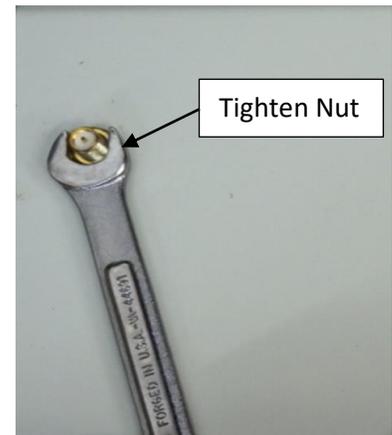
Fig 6.1   Fig 6.2   Fig 6.3

5. Thread the female end of the Wi-Fi cable onto the connector of the Wi-Fi card (Fig. 7)
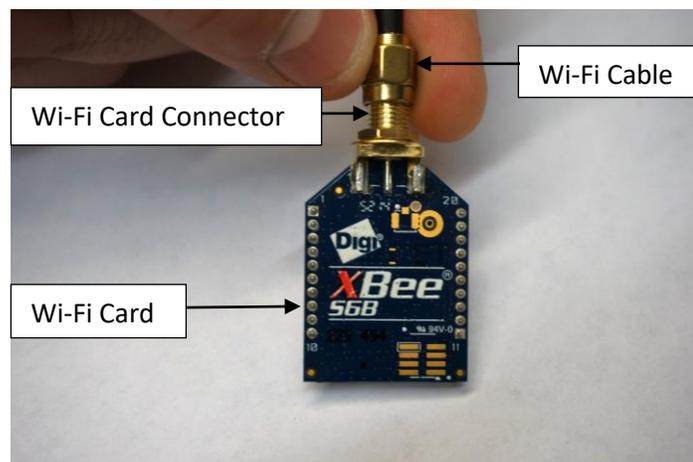

Wi-Fi Cable

Wi-Fi Card Connector

Wi-Fi Card

Fig 7

6. Align the pins on the back of the Wi-Fi card with the small holes in the Wi-Fi card receptacle located on the circuit board (Fig. 8).

Wi-Fi Card Pins
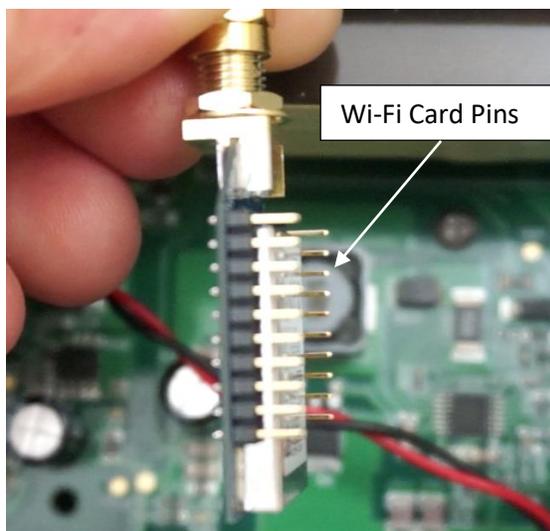
Wi-Fi Card Receptacle

Fig 8

7. Carefully connect the Wi-Fi card to the receptacle on the circuit board, making sure ALL the pins on the Wi-Fi card are aligned properly. **There is a white outline on the circuit board which shows the proper orientation of the Wi-Fi card (Fig. 9). It's important to ensure the Wi-Fi card is installed properly.** Inserting the module upside down is possible but can damage the equipment.

Properly installed Wi-Fi Card

Fig 9

8. Thread the Wi-Fi antenna onto the Wi-Fi cable and angle the antenna towards the top of the controller (Fig. 10).

Wi-Fi Antenna

Wi-Fi Cable

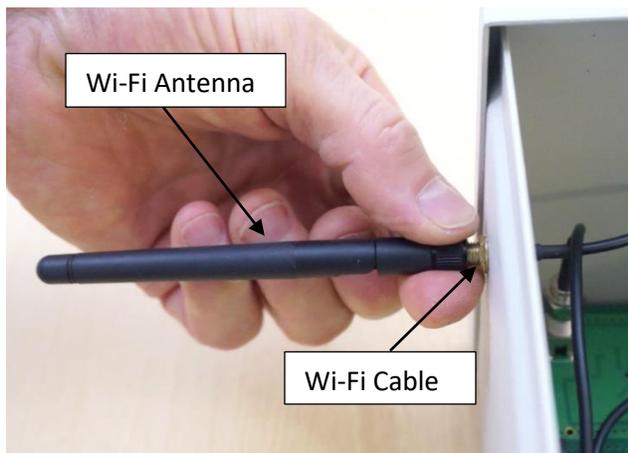Fig 10.1   Fig 10.2

9. **If BOTH a swim current and treadmill have been purchased with two separate hydraulic power units, proceed to step 10**. If only a swim current/treadmill is present **OR** a tandem power unit is present, resupply power to the pool equipment. The pool controller will go through a boot up cycle that takes approximately two minutes. A steady blinking light (heartbeat light) will appear on the circuit board when the controller has rebooted.

   Press the power reset button on the circuit board(s) to ensure the controller becomes Wi-Fi enabled (Fig. 11). Reinstall the controller's front cover. The Fit@Home app can now be downloaded and configured through your mobile device. **Refer to the Endless Pools Fit@Home Installation and Users Guide to install and configure the Fit@Home mobile app.**
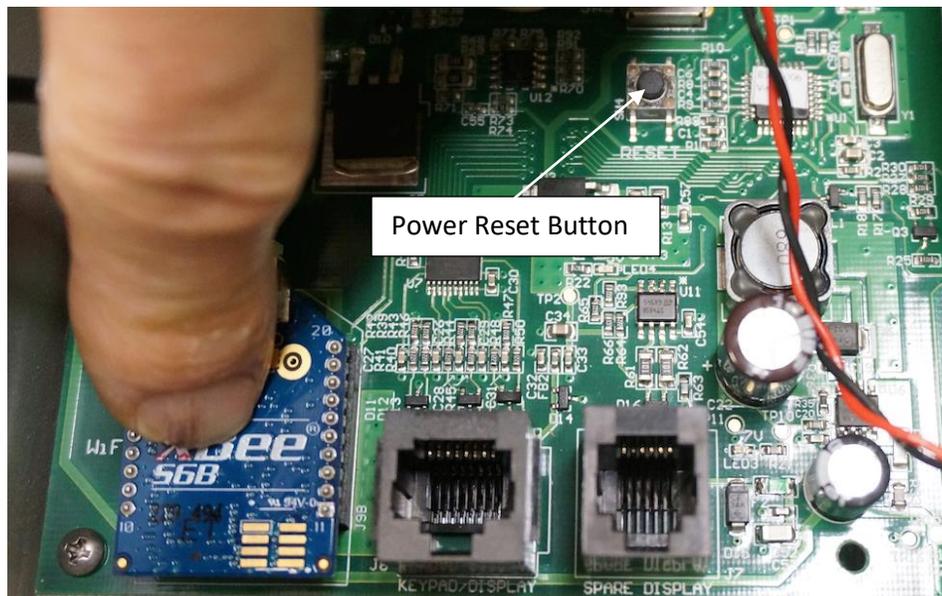

Power Reset Button

Fig 11

10. **If BOTH a swim current and treadmill have been purchased with two separate power units**, a board to board communication cable must be installed between the two controllers. Two cord grip liquid-tight fittings have been supplied for both the swim current and treadmill controllers to prevent water intrusion. Locate a 3/4" liquid-tight fitting. Unthread the nut and remove the rubber insert using a small screwdriver (Fig. 12).

Liquid-Tight Fitting
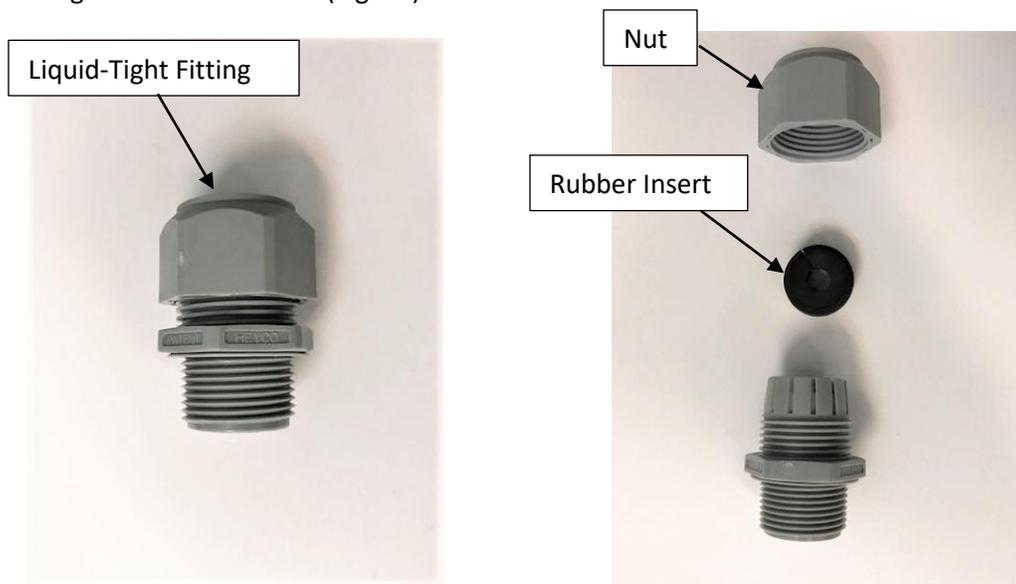
Nut

Rubber Insert

Fig 12

11. Route the communication cable through the nut, rubber insert, and liquid-tight fitting. Reinstall the rubber insert and thread on the nut (Fig. 13).

Communication Cable
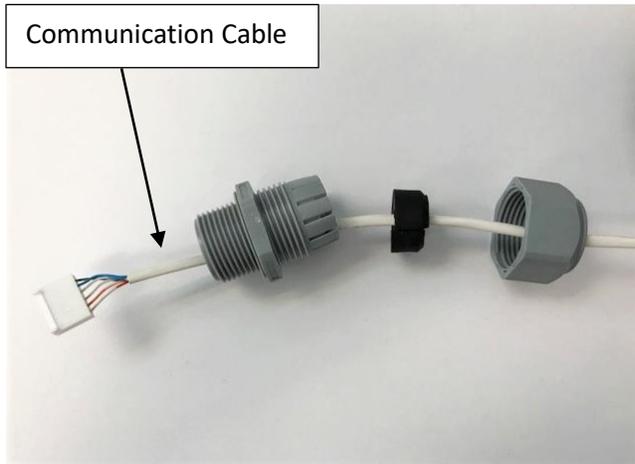
Fig 13.1   Fig 13.2

12. Install the communication cable and liquid-tight fitting through the communication cable knockout at the bottom of the controller from the outside in. Route the cable through the metal lock nut and thread the locknut onto the liquid-tight fitting from the inside of the controller (Fig. 14).
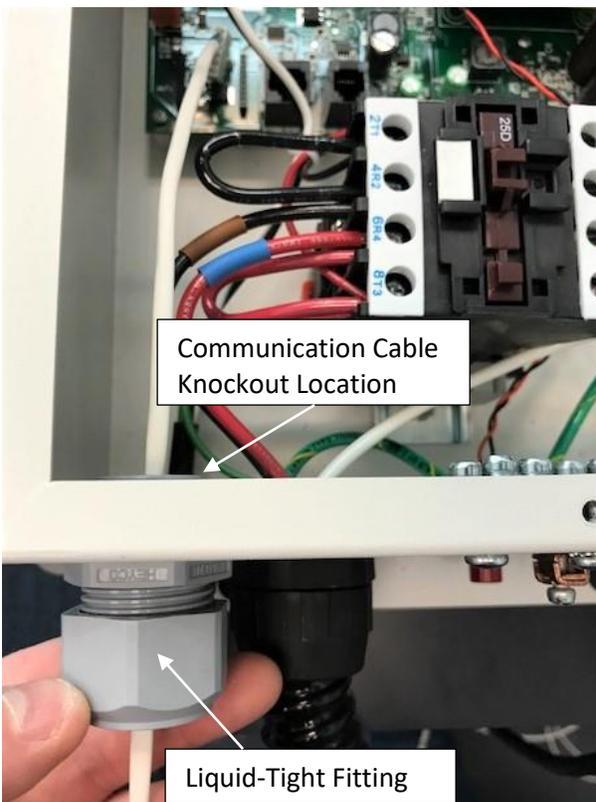
Communication Cable Knockout Location

Liquid-Tight Fitting

Communication Cable

Lock Nut

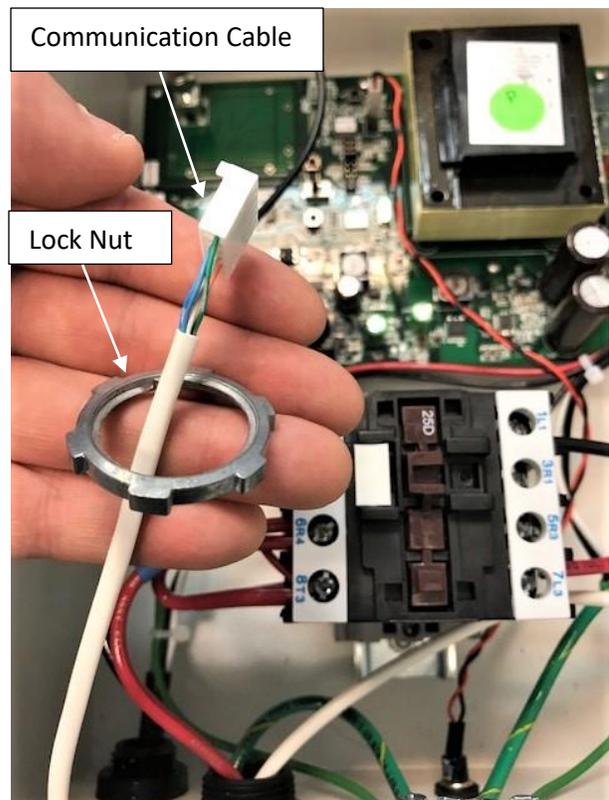Fig 14.1   Fig 14.2

13. Align the holes of the communication cable connector with the pins of the communication cable receptacle on the circuit board (Fig. 15).
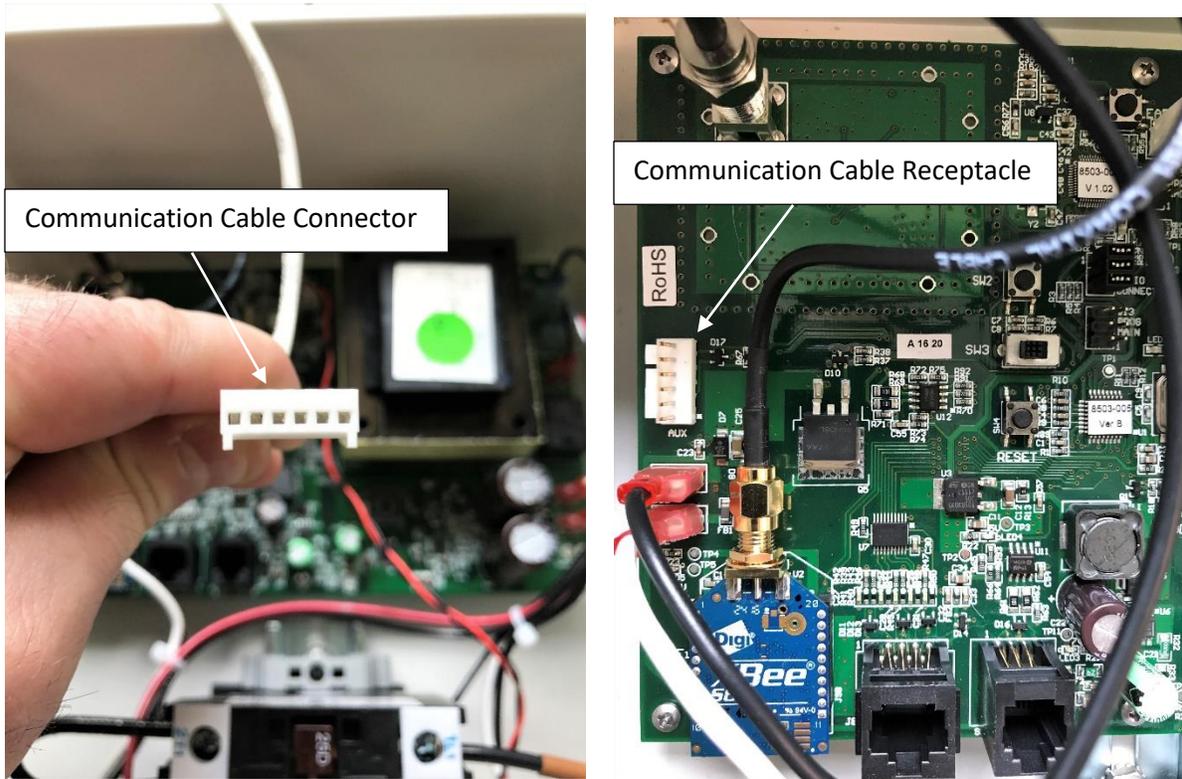

Communication Cable Connector

Communication Cable Receptacle

Fig 15

14. Carefully connect the communication cable to its receptacle on the circuit board (Fig. 16).
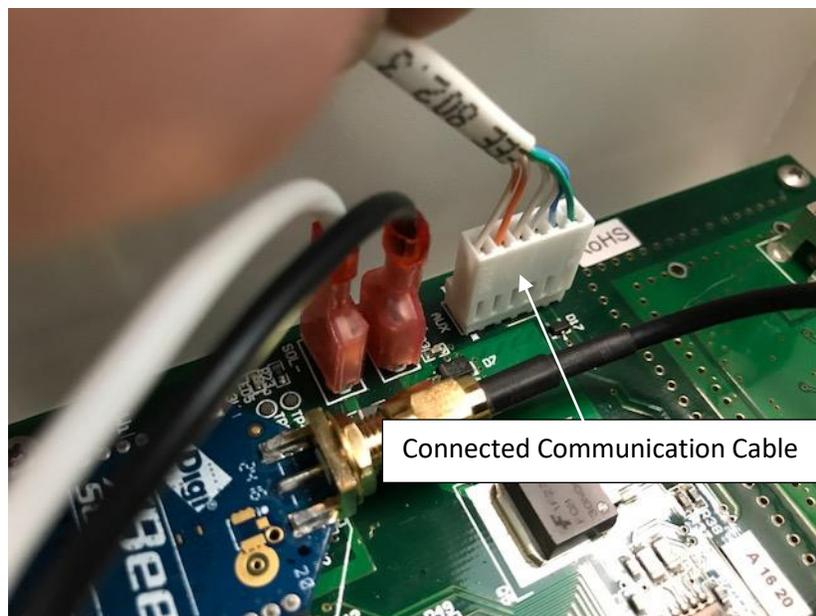

Connected Communication Cable

Fig 16

15. The other end of the communication cable will connect to the second power unit controller's circuit board. Repeat steps 10-14 to properly install the liquid-tight fitting and communication cable.

16. Once the communication cable has been installed in the second power unit controller, resupply power to the pool equipment. The pool controller will go through a boot up cycle that takes approximately two minutes. A steady blinking light (heartbeat light) will appear on the circuit board when the controller has rebooted.

    Press the power reset button on BOTH circuit boards to ensure the controllers become Wi-Fi enabled (Fig. 17). Reinstall the controller's front covers. The Fit@Home app can now be downloaded and configured through your mobile device. **Refer to the Endless Pools Fit@Home Installation and Users Guide to install and configure the Fit@Home mobile app.**
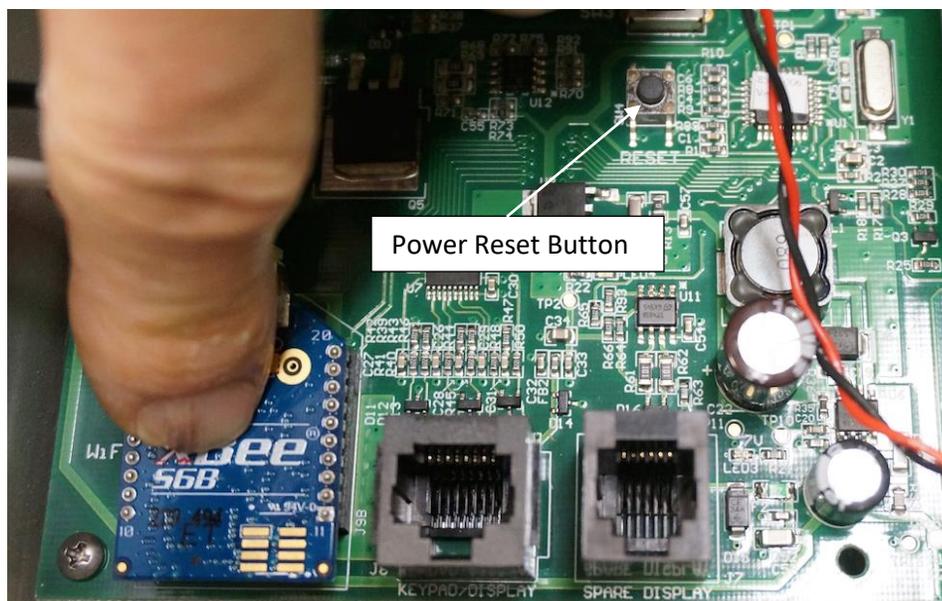

Fig 17