



Controller SSID and  
password

Prior to commencing installation, please ensure that you:-

1. Take a note of your existing controllers fuel settings, Pump Min, Pump Max, Fan Min and Fan Max
2. Remove the inline fuse for the heater and unplug the large connector block at the heater. **DO NOT POWER YOUR HEATER again until STEP 4 in these instructions. Please follow correct setup instructions depending on your installation WiFi connection type.**

Steps:-

PMin	PMax	Fan Min	Fan Max
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1. Locate the cable from the existing controller to the heater. Normally within 300mm of the existing controller there will be a cable join or a connector.
2. Remove this connection. You should now have the cable from the heater with 3 wires (normally Red, Black & Blue) (if round connector is fitted to loom you can simply plug in to it) or use adaptor to rectangle connector
3. Once new controller has been fitted, connect the cable loom from it to the existing 3 wires. Red to red, black to black and white to blue. (These colours may differ) Call us on 01555 728515 for assistance if required.
- 4. Reconnect large connector block and replace inline fuse to heater.**
5. New WiFi controller should now power up. **Now follow the correct connection type below.**

The Challenger WiFi controller is a fully capable communications device. It can operate as an independent WiFi server (It creates its own local WiFi network) or as an access point to your chosen internet connected WiFi router.

#### (1) DIRECT WIFI CONNECTION (NO Internet) TO Mobile device (phone / tablet)

1. On your mobile device connect to the Challenger wifi network. Password is located on rear of the controller and on the instruction manual and above. (SETTINGS, WIFI CONNECTIONS ON YOUR MOBILE DEVICE)
2. Once connected to the WiFi network, open your browser and go to **192.168.4.1 Save this page to your desktop. NOW JUMP TO 3 ONCE CONNECTED IF YOU ARE NOT CONNECTING TO AN EXISTING WIFI ROUTER.**

#### (2) CONNECT TO EXISTING INTERNET CONNECTED WIFI NEWORK OR PERSONAL HOTSPOT FROM YOUR DEVICE

1. Complete 1 above (Direct Wifi connection)
2. On the controller press the right arrow 4 times, press up arrow to move to System Settings, press right arrow 4 times. Now press the up arrow to change the mode to CFG AP only, once changed, press the middle button and save. Controller will now reboot. Connect to Challenger network entering WiFi password on case. WiFi config screen should now appear., Press configure wifi button, Select your WiFi network and add your password. Now save. Controller will reboot again
3. From the controller again press the right arrow to navigate back to the Wifi Settings, note the STA IP address in the box as shown.
4. On your mobile device input the noted STA IP address address in your browser, you will then be presented with the Challenger WiFi main screen. Book mark this address or save to your desktop for easy repeat access.



Add your displayed STA IP address here:

#### (3) ONCE CONNECTED TO EITHER METHOD PROCEED WITH SETUP.

From the menu at the top left of your device screen, select System Settings. Now press the enable button. You will need to input the password **4682**. Now again from the menu, select **Fuel Mixture Settings**. These need to be changed to the standard defaults for the size of your heater. **Please ensure you set correctly, options are displayed in user manual!**

Now set the **Heat demand mode** - Comfort is advised with a 2° window for normal use with the exception of Cyclic Mode.

**\*\* FAILURE TO ADD CORRECT FUEL SETTINGS CAN CAUSE DAMAGE TO YOUR HEATER. \*\***

From the menu, now select Date /Time. Once displayed, press Update Time Button to set your new controller to the correct time from your connected device.

#### Temperature sensor:

Your new Ignite controller can have multiple temperature sensors, the default on board temperature sensor will need to be offset to give a more accurate in vehicle temperature reading. We recommend that the new Ignite controller is placed in the vehicle for approx 15 minutes to allow it to acclimatise. From an independent temperature gauge, take a reading and then offset the onboard temperature sensor to match your independent gauge. Under normal circumstances the offset should be around -7.5 (minus) to allow for heat within the actual Ignite casing. This only needs to be completed once on first installation.

From the menu, now select Home. The main screen will now be displayed. **To start your heater, press the centre of the temperature dial.**

Allow heater to start, monitoring both the controller and your device and follow user manual.

#### User Manual



SCAN ME

## MQTT REMOTE CONNECTION

1



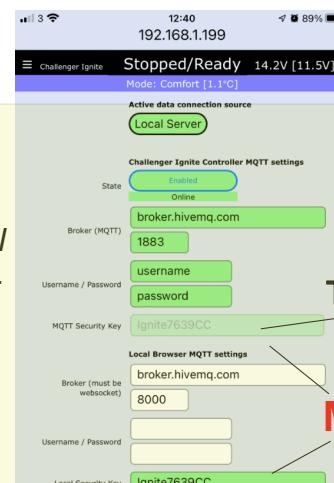
Prior to starting you NEED to ensure that you have the STA ip address of the controller and that your device / connection has access to the internet.

Connect to your controller via your STA ip address and the home screen will load. From the menu button select WEB access settings.



Actual controller screen As seen in system settings on controller, if STA is not there you need to follow steps as listed overleaf.

2



Ensure your screen replicates what is shown here (Your security key will be different to that shown).

Ensure local browser settings are as shown and that YOUR local security key is the same as YOUR MQTT security key. You will need to add it

This cannot be changed

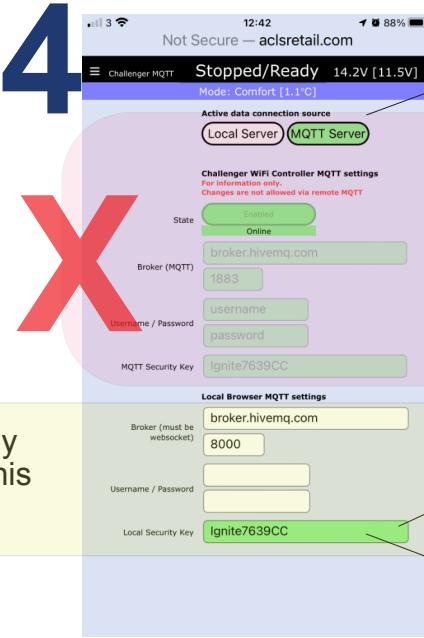
**MAKE ALL SAME**

3



Now browse to [www.aclsretail.com](http://www.aclsretail.com) and find the link to Challenger WiFi Controller portal as shown (or use Scan Me). Once open, from menu select MQTT settings.

4



Ensure source is set to MQTT

Do not try to change anything in this section, it will self populate on connection

Changes only required in this section

Check broker and port number is as above in stage 2 picture. Username & password not required.

Enter your Local security key here and press enter.

On pressing enter, you should remotely connect to your controller, if not ensure that you have correctly entered the information as shown. It is advised to save this page to your device home screen, thus next time you simply need to select the saved icon