

SPARK **SUCCESS.**

All-Spark™

Intermittent Pilot / Direct Spark
Ignition Module

50D50U-843

WHITE-RODGERS™


EMERSON™

READY FOR YOUR GAME CHANGER?

HVAC tech is changing—fast.

Wouldn't it be great if you or your techs could drive up to a service call, confident they have the right replacement control for the job? Seriously, how much time, effort, and frustration gets wasted because the right part isn't on the truck?

But what if there was a universal ignition control that worked for multiple systems? One that's intelligently designed with useful on-board features AND connects to a user-friendly companion app, making installation and diagnostics easier and faster than ever before.

Well, guess what? The game-changing White-Rodgers All-Spark Intermittent Pilot/ Direct Spark Ignition Module from Emerson is ready for you.



FIRE UP YOUR FUTURE.



All you need to get the job done right.

The White-Rodgers All-Spark ignition module **can be configured for both 24V intermittent pilot (IP) and direct spark ignition (DSI) systems.** This means the All-Spark ignition module can do the work of more than 1000 IP and DSI part numbers. This flexibility allows your team to arrive at a service call confident they have what it takes to get the job done right without sacrificing time and productivity chasing down parts.

Connecting convenience and control.

With near-field communication (NFC) that allows the control to communicate with a mobile device, the free **White-Rodgers Connect app makes configuration and diagnostics simple and hassle-free.** In fact, configuration can be completed through NFC without power applied to the control, which means it can be done from the comfort of the service truck—connecting convenience and install like only All-Spark can.

SPARK SIMPLICITY + PRODUCTIVITY

All-Spark makes technicians' jobs—and lives—easier. Service calls and installations are quicker and more efficient because they'll always be prepared to handle both 24V IP and DSI systems. Currently, most competitors don't offer configuration with DSI modules, so a different module is needed for each application. But with All-Spark, you'll be able to replace virtually all 24V DSI SKUs.

By eliminating the need to search through multiple controls on a cluttered truck or making trips to a distributor, All-Spark puts time back in the technicians' day to fit in additional jobs or "reignite their own sparks" with some well-deserved "me time."



Streamline Inventory

- Replace over 1000 IP + DSI part numbers
- Save space on trucks by carrying fewer parts
- Decrease carrying costs



Speed Up Installation

- Save time by having the right part
- Faster install means more satisfied customers
- Quick configuration with the White-Rodgers Connect app

Target Applications

The All-Spark ignition module replaces a wide variety of applications for both residential and commercial applications.

Gas Furnaces



Water Heaters



Boilers



Infrared Heaters

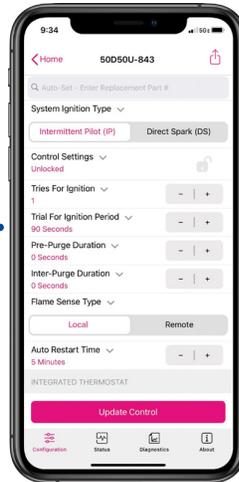


Gas-Fired Appliances

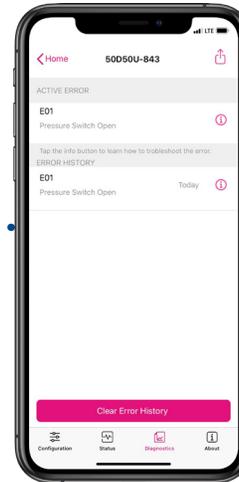


SIMPLIFY INSTALL WITH AN EASY-TO-USE MOBILE APP

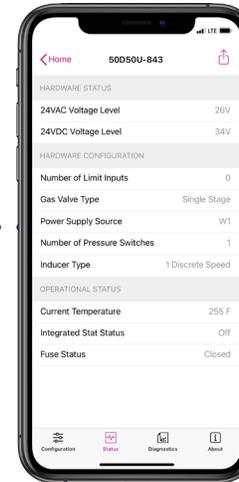
Configuration



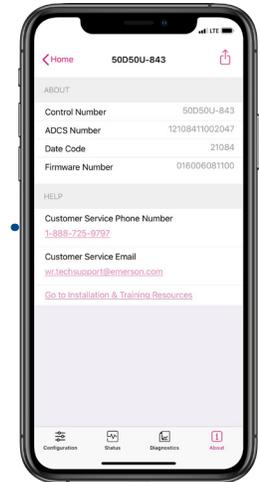
Diagnostics



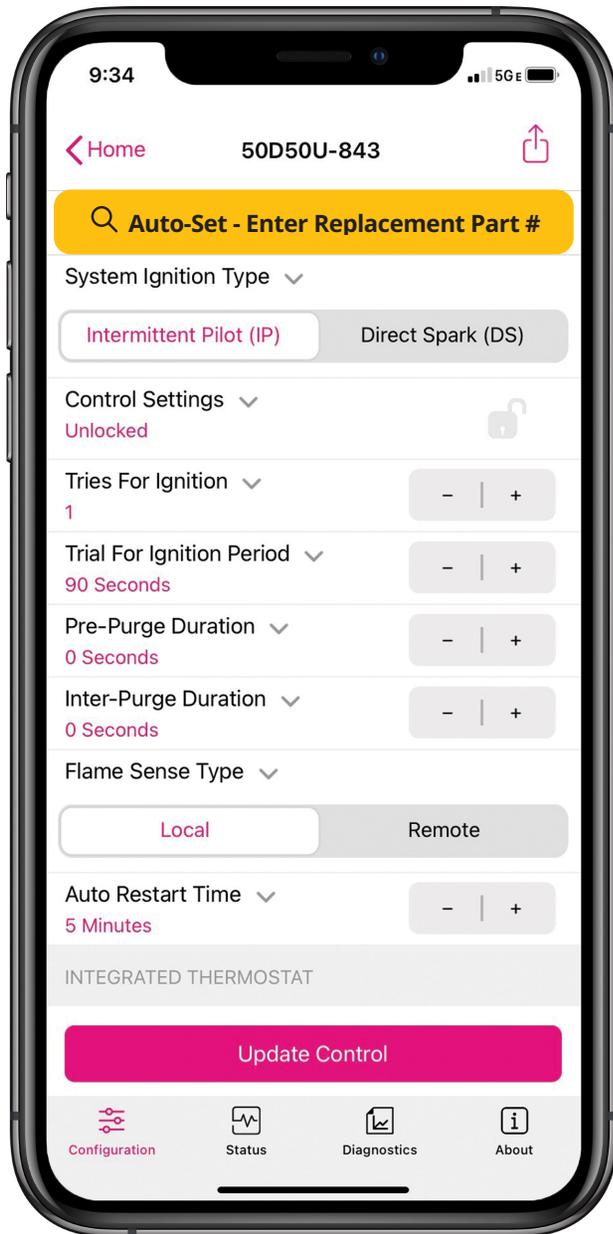
Status



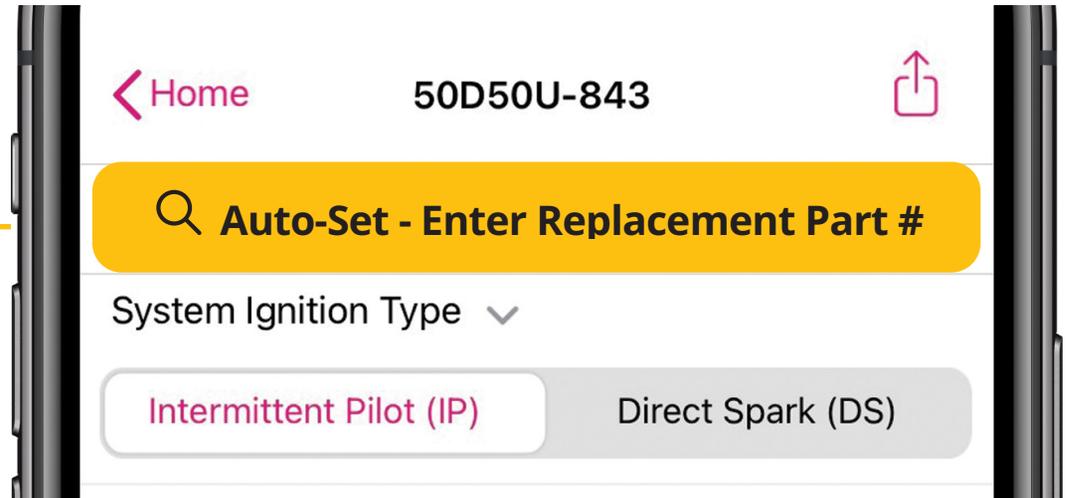
About



- **Configuration:** Quick and simple configuration from anywhere, even prior to install with no Wi-Fi needed
- **Diagnostics:** Diagnose fault codes and troubleshoot confidently
- **Status:** View system status with the tap of a finger
- **About:** Access installation resources and product literature via quick links



NOTE: AUTO-SET FIELD IS NOT YELLOW IN THE APP.



White-Rodgers Connect Auto-Set Feature

Introducing the White-Rodgers Connect auto-set feature.

The White-Rodgers Connect app simplifies configuration and diagnostics for the All-Spark ignition module. The auto-set feature in the White-Rodgers Connect app takes all the guesswork out of configuration.

Simply type the replacement part number into the configuration tab of the White-Rodgers Connect app to automatically configure the All-Spark ignition module to the original default settings of the replacement part number. This can be completed without power to the control, before installation.

For more information visit [Emerson.com/WRconnect](https://www.emerson.com/WRconnect)

SPARK PERFORMANCE

Innovation like no other.

The All-Spark ignition module isn't just the first-of-its-kind module for both 24V IP and DSI systems. It also delivers features that no other product offers—lighting the way forward for what's possible in HVAC tech.

Product Feature	 Fenwal 35-60, -61	 Honeywell S8610U	 All-Spark™ 50D50U-843
Cross Ref. #s	1 (individual SKUs)	425	1000 +
Ignition Type	DSI	IP	IP/DSI
User Configuration	None	Dipswitch	7-Seg. LEDs
NFC + App	No	No	Yes
Inducer/PSW	Yes	No	Yes
Alarm Output	Yes	No	Yes
On-Board Spark Output	Rajah or Spade	Spade	Rajah and Spade
Integrated Thermostat	No	No	Added in 2022

Integrated Thermostat Functionality

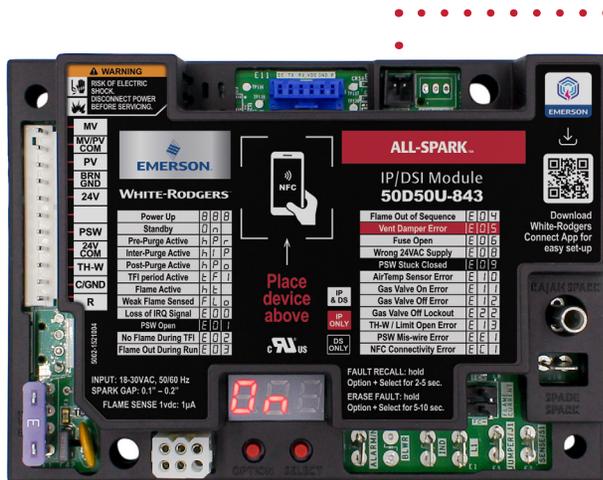
When wired to the All-Spark ignition module, the integrated thermostat sensor allows the module to create its own call for heat without using an external thermostat in the system. **This should only be used in infrared or tube heater applications.** Some added benefits:

- Can be configured through the White-Rodgers Connect App or 7-segment LED display on board
- Offset allows sensor to compensate for location (Example: heater located near ceiling)
- Slow, medium or fast heating cycles
- 40-80°F set-point temperature range

Reduce applied cost.

Enable connected technology.

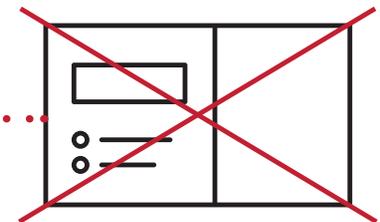
Achieve Faster installation.



Use
Temperature Sensor F67-8535



Thermostat not required



Note: Only for infrared or tube heater applications

User Configuration via 7-Segment Display

- Easy-to-read LED Display for advanced on-board configuration
- Readable error codes (*no more counting or guessing flashes*)
- Current-state display: pre-purge, post-purge, heat call or standby
- Additional configuration option to mobile app

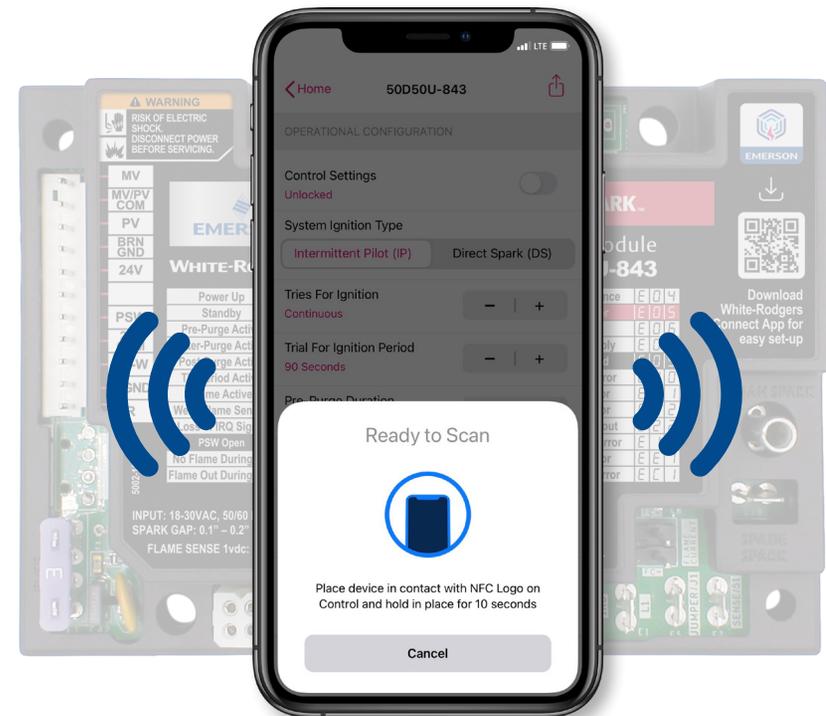


Spark Output

- Both **raja** and **spade spark terminals** on board
- Replaces spark controls with either raja or spade spark outputs without the need of an external adapter

NFC Capability

- First in residential HVAC industry to configure and diagnose replacement furnace controls via a mobile device
- Interface between the control and your mobile device with the **White-Rodgers Connect app**
- Upgrade & future-proof older units with cutting-edge, modern tech



Place mobile device in contact with the NFC marking on the board to enable Near Field Communication (NFC) connection

READY TO SPARK YOUR SUCCESS?

Simplify everything from routine service to complete replacements with the White-Rodgers All-Spark ignition module from Emerson—configurable for both 24V intermittent pilot and direct spark ignition systems.

Improve performance, productivity and customer satisfaction.

Stock All-Spark and **spark your success** today.



Visit [Emerson.com/AllSparkpro](https://www.emerson.com/AllSparkpro)

