

White-Rodgers 50D50 Series

Universal

Universal Replacement Direct Spark/Intermittent Pilot Non-Integrated Spark Ignition Modules

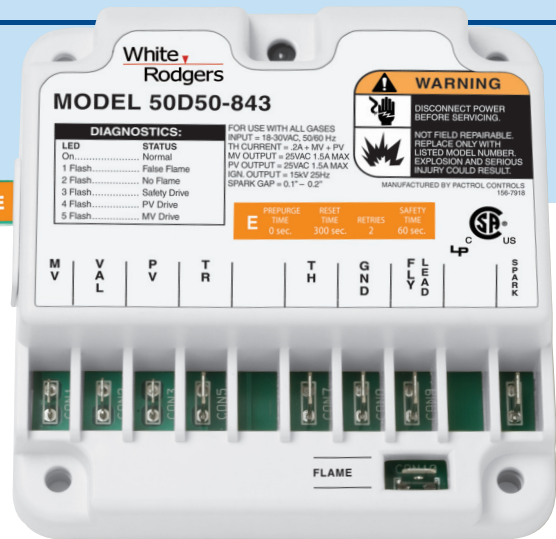
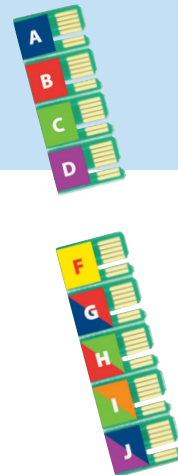
- For Gas-Fired Non-Integrated Forced-Air Furnaces, Boilers and Cooking Appliances

50D50-842

Universal
Direct Spark

50D50-843

Universal
Intermittent Pilot



Why Carry More...When Less Works Best!

Quality Universal Replacement products to protect your reputation.

White-Rodgers, a leader in Silicon Carbide HSI ignition technology, now has two Universal Non-Integrated Spark Ignition Modules. The 50D50 Electronic Spark modules were developed to replace both Direct Spark (50D50-842) and Intermittent Pilot (50D50-843) single and dual rod systems.

Kit Includes

- Program Keys
- Double-Sided Foam Back Tape (for ease of installation)
- Extensive Cross-Reference Guide
- Color-Coded Timing Label
- Pre-Printed Hanging Carton
- Instructions in English/Instrucciones en Español

Features

- Color LED Indicator for Diagnostics
- Direct and Indirect Flame Sense

The 50D50 Universal Spark Modules will replace virtually all competitive spark non-integrated modules. These Universal Spark Modules are designed to give dealers and service technicians reduced inventory providing a complete diagnostic system, thus making installations easier with fewer callbacks.

Specifications

Dimensions

4.13"W x 4.13"H x 1.5"D

Electrical Rating

Input 18 to 30 VAC, 25 VAC nominal

Max. Input Current:

50D50-842
@ 25 VAC: 0.2A + MV @ 25°C

50D50-843
@ 25 VAC: 0.2A + MV + PV @ 25°C

Each 50D50-842/843 Universal Kit has everything needed for a fast and accurate replacement, including a complete cross-reference and programming keys to quickly customize the modules to the specific application.

Relay Load Ratings

50D50-842
Main Valve Relay: 25 VAC, 1.5 Amp Max.

50D50-843
Main Valve Relay: 25 VAC, 1.5 Amp Max.
Pilot Valve Relay: 25 VAC, 1.5 Amp Max.

White
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EMERSON
Climate Technologies

White-Rodgers

50D50 Series

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• For Gas-Fired Non-Integrated Forced-Air Furnaces, Boilers and Cooking Appliances

50D50-842

Universal
Direct Spark

50D50-843

Universal
Intermittent Pilot

Program Key Information

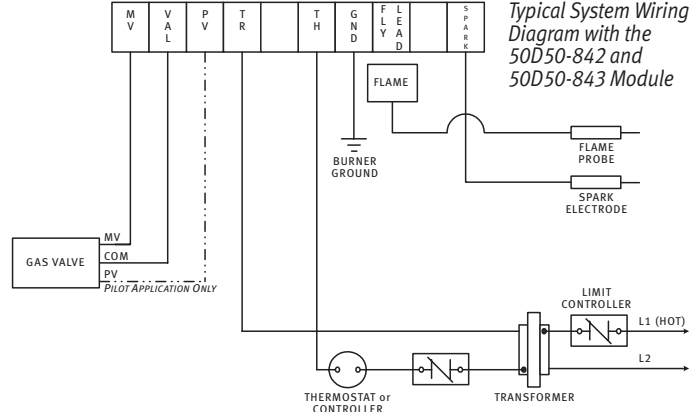
Program Keys are provided for different applications. Refer to the enclosed installation instructions for detailed Program Key selections. This table shows Timings and Retries for each key. After selecting and inserting the proper key, remove or dispose of the remaining keys.

50D50-842 PROGRAM KEY TIMING SPECIFICATIONS QUICK REFERENCE

Key	Trial for Ignition	Retries	Prepurge	Interpurge
A-Blue	4 sec.	2	0 sec.	90 sec.
B-Red	4 sec.	2	30 sec.	90 sec.
C-Green	7 sec.	2	0 sec.	90 sec.
D-Violet	7 sec.	2	30 sec.	90 sec.
E-Orange	7 sec.	0	0 sec.	N/A
F-Yellow	7 sec.	0	30 sec.	N/A
G-Blue/Red	11 sec.	0	0 sec.	N/A
H-Red/Green	11 sec.	0	30 sec.	N/A

50D50-843 PROGRAM KEY TIMING SPECIFICATIONS QUICK REFERENCE

Key	Prepurge	Reset Time	Retries	Safety Time
A-Blue	0 sec.	300 sec.	Continuous	90 sec.
B-Red	30 sec.	300 sec.	Continuous	90 sec.
C-Green	0 sec.	300 sec.	Continuous	30 sec.
D-Violet	30 sec.	300 sec.	Continuous	30 sec.
E-Orange	0 sec.	300 sec.	2	60 sec.
F-Yellow	30 sec.	300 sec.	2	60 sec.
G-Blue/Red	0 sec.	300 sec.	Continuous	15 sec.
H-Red/Green	30 sec.	N/A	N/A	Cont.
I-Green/Orange	0 sec.	300 sec.	Continuous	4 sec.
J-Violet/Blue	30 sec.	300 sec.	Continuous	4 sec.



The 50D50-842 Universal Module Replaces the Following SPARK Direct Ignition Modules:

Honeywell	S87C1014	Robertshaw	DS845 780-504	White-Rodgers	50D20-170	50D20-180	50D20-180	50D20-152	50D20-250	50D21-1
S8680	S87D1004				50D20-150	50D20-180	50D20-180	50D20-152	50D20-250	50D21-1
S87B1008	S87D1012				50D20-160	50D20-180	50D20-180	50D20-152	50D20-250	50D21-1
S87B1016	S87J1026				50D20-162	50D20-180	50D20-180	50D20-152	50D20-250	50D21-1
S87C1006						50D20-180	50D20-180	50D20-152	50D20-250	50D21-1

Installation Note:
When installing, see the installation instructions for a complete timing specifications cross-reference guide.

The 50D50-843 Universal Module Replaces the Following SPARK Intermittent Pilot Modules:

Camstat	S86E1002	S8600C1015	CSA42A-604R	G60CBG-14	G60QBG-2	G60RDG-1	G65DFM-1			
IPI-24-00	S86E1010	S8600F1000	CSA43A-600R	G60CBG-15	G60QBG-3	G60RDK-1	G65DKG			
	S86E1028	S8600F1034	CSA44A-600R	G60CBG-16	G60QBG-4	G60RGL-1	G65DKM			
Fenwal	S86E1036	S8600F1042	CSA45A-601R	G60CBG-17	G60QBG-5	G60RHL-1	G65DKM-1			
05-203025-005	S86E1044	S8600H1006	CSA45A-602R	G60CBG-2	G60QBG-6	G60RHP-1	G65DLM-1			
05-203026-005	S86E1051	S8600H1022	CSA46A-600R	G60CBG-3	G60QBG-7	G60RPL-1	G65FBG			
	S86E1069	S8600H1048	CSA48A-600R	G60CBG-4	G60QBG-8	G60RSL-1	G65FFG			
Robertshaw	S86E1077	S8600H1055	CSA49A-600R	G60CBG-5	G60QBG-9	G60ZAG-1	G65FKG			
780-001	S86E1101	S8600H1089	CSA49A-605R	G60CBG-6	G60QBH-1	G65BBG-1	G66AG-1			
780-002	S86E1119	S8600H1105	CSA51A-601R	G60CBG-7	G60QBK-1	G65BBG-2	G66AG-2			
780-003	S86E1127	S8600M1005	CSA52A-600R	G60CBG-8	G60QBK-3	G65BBG-3	G66BG-1			
780-845	S86F1000	S8600M1013	G60AAA-1	G60CBG-9	G60QBL-1	G65BBG-4	G66MG-1			
780-715	S86F1018	S8610A1009	G60AAG-1	G60CCA-1	G60QBL-2	G65BBG-5	G66MG-2			
780-735	S86F1026	S8610B1007	G60AAG-2	G60CCG-1	G60QCG-1	G65BBG-6	G66NG-1			
780-736	S86F1042	S8610B1015	G60AAG-3	G60CPG-1	G60QCJ-1	G65BBG-7	G67AG-3			
780-737	S86F1059	S8610C1005	G60AAG-4	G60DBG-1	G60QCL-1	G65BBG-8	G67AG-4			
SP715	S86F1067	S8610F1008	G60AAG-5	G60DCG-1	G60QDG-1	G65BBM-1	G67AG-7			
SP715A	S86F1075	S8610F1016	G60AAG-6	G60DCG-2	G60QFL-1	G65BBM-2	G67AG-8			
SP735	S86F1083	S8610F1024	G60AAG-7	G60DCG-3	G60QHL-1	G65BBM-3	G67AG-9			
SP735D	S86F1091	S8610F1032	G60CAA-1	G60DCG-4	G60QJL-1	G65BBM-4	G67AG-10			
SP735L	S86G1008	S8610H1012	G60CAA-2	G60PAG-1	G60QLG-1	G65BCG-1	G67AG-11			
USI715U	S86G1016	S8610H1038	G60CAA-3	G60PAG-2	G60QPL-1	G65BCM-1	G67BG-2			
	S86G1032	S8610H1046	G60CAG-1	G60PAG-3	G60QRH-1	G65BFG-1	G67BG-3			
Honeywell	S86A1001	S8610H1053	G60CAG-2	G60PAG-4	G60QRL-1	G65BFG-2	G67BG-4			
S86A1019	S86G1057	S8610H1079	G60CAG-3	G60PAG-5	G60QRL-2	G65BFG-3	G67BG-5			
S86A1027	S86H1006	S8610M1003	G60CAG-4	G60PAG-6	G60QRL-3	G65BKG-1	G67MG-1			
S86A1035	S86H1009	S8610M1029	G60CAG-5	G60PAJ-1	G60QSL-1	G65BKG-2	G67MG-2			
S86B1009	S86H1048	S8610U1003	G60CAG-6	G60PAJ-2	G60QTH-1	G65BKG-3	G67MG-3			
S86B1017	S86H1089	S8620H1002	G60CAG-7	G60PAK-1	G60QTL-1	G65BKM-1	G67MG-4			
S86B1025	S86H1097	S8620H1028	G60CAG-8	G60PAK-2	G60QTL-2	G65BKM-2	G67MG-5			
S86C1007	S86H1105		G60CAG-9	G60PFH-1	G60RAG-1	G65BKM-3	G67MG-6			
S86C1015	S86H1121	Johnson Controls	G60CBA-1	G60PFH-2	G60RAK-1	G65BLG-1	G67NG-4			
S86C1031	S86H1147	CSA35A-617R	G60CBA-2	G60PFQ-1	G60RAG-1	G65BLG-2	G67NG-5			
S86C1049	S90A1005	CSA35A-618R	G60CBA-3	G60PVL-1	G60RBG-1	G65DBG	G67NG-6			
S86C1056	S90B1003	CSA42A-600R	G60CBG-1	G60QAG-1	G60RBG-2	G65DBM-1	G67NG-7			
S86D1005	S90B1011	CSA42A-601R	G60CBG-10	G60QAG-2	G60RBK-1	G65DBM-2	G67NG-8			
S86D1021	S8600A1001	CSA42A-602R	G60CBG-11	G60QAG-3	G60RBK-2	G65DBM-3	G67NG-9			
	S8600B1009	CSA42A-603R	G60CBG-12	G60QAG-4	G60RCG-2	G65DCM-1	G67NG-10			
			G60CBG-13	G60QBG-1	G60RCJ-1	G65DFG	G67NG-11			

Installation Note:
When installing, see the installation instructions for a complete timing specifications cross-reference guide.

White-Rodgers
50D49-150
50D49-350
50D49-360
50D49-361
50D49-401

White Rodgers

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