

50E47-843

UNIVERSAL 50E47-843 NON-INTEGRATED HSI IGNITION MODULE

The Universal 50E47-843 Replaces White-Rodgers 50E47 Modules and Many Competitive Silicon Carbide, Non-Integrated Modules. Includes a Complete Module Cross Reference and Program Keys for Fast and Accurate Replacement.

FEATURES

- Program keys for multiple timing selections.
- Tri-colored LED indicator for diagnostics.
- Direct and indirect flame sense compatible.
- Universal design for maximum versatility.

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 @ 25 VAC; .250mA @ 28 VAC |
| Relay load settings | Valve relay: 1.5 amps @ 28 VAC, 50 / 60 Hz, .6 pf Ignitor relay: 1.52A, 120 VAC, 50 / 60 Hz resistive |
| Operating temperature | -40° to +175°F (-40° to +80°C) |
| Humidity range | 95% RH (non-condensing) max. |
| Mounting | Surface mount or 4" x 4" junction box |
| Applications | For use with all gases |
| Flame current requirements | Min. current to insure flame: 2 µADC Min. current for non-detection: 0.2 µADC Max. allowable leakage resistance: 100 M Ohms |
| Agency | A.G.A. and C.G.A. design certified |



TECHNICAL HELP

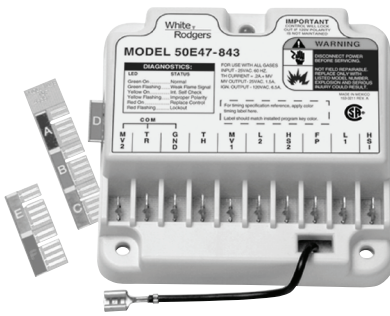
Wiring operation and troubleshooting See pages 204-207

| Model Number | PROGRAM KEY (COLOR) | TRIAL FOR IGNITION | RETRIES | PREPURGE | IGNITOR WARMUP |
|------------------|---------------------|--------------------|---------|----------|----------------|
| 50E47-843 | A (blue) | 4 Sec. | 0 | 30 Sec. | 45 Sec. |
| | B (red) | 4 Sec. | 2 | 30 Sec. | 45 Sec. |
| | C (green) | 7 Sec. | 0 | 30 Sec. | 45 Sec. |
| | D (violet) | 7 Sec. | 2 | 30 Sec. | 45 Sec. |
| | E (orange) | 4 Sec. | 2 | 30 Sec. | 17 Sec. |
| | F (yellow) | 7 Sec. | 2 | 30 Sec. | 17 Sec. |

CROSS REFERENCE

50E47-843 Replaces:

| | | | | | | | |
|---------------|-----------|-----------|-----------|-----------------|-----------------|-----------------|--------------|
| 0050050 | 50D47-160 | 50E47-120 | 50F47-101 | 780-910 | HS780-17NR-312A | HS780-34PL-106A | S89C1004 |
| 025-25436-000 | 50D47-161 | 50E47-130 | 50F47-140 | 832-002 | HS780-17PL-106A | HS780-34PL-108A | S89C1012 |
| 02525436700 | 50D47-170 | 50E47-140 | 50F47-160 | 832-005 | HS780-17PL-108A | HS780-34PL-304A | S89C1046 |
| 025-25436-700 | 50D47-20 | 50E47-150 | 50F47-40 | 833-002 | HS780-17PL-304A | HS780-34PL-306A | S89C1079 |
| 1001346 | 50D47-260 | 50E47-160 | 50F47-60 | 995395 | HS780-17PL-306A | HS780-34PL-308A | S89C1087 |
| 10376732 | 50D47-270 | 50E47-161 | 50G47-1 | 99796380 | HS780-17PL-308A | HS780-34PR-106A | S89C1103 |
| 120-08027 | 50D47-40 | 50E47-170 | 50G47-130 | 99905232 | HS780-17PR-104A | HS780-34PR-108A | S89D1002 |
| 1300-4928 | 50D47-50 | 50E47-20 | 50G47-140 | C6411102 | HS780-17PR-108A | HS780-34PR-304A | S89G1005 |
| 1380694 | 50D47-60 | 50E47-260 | 50G47-150 | CNT03776 | HS780-17PR-306A | HS780-34PR-306A | S89G1013 |
| 2076-0184 | 50D47-70 | 50E47-30 | 50G47-160 | CNT03794 | HS780-34NL-106A | HS780-34PR-308A | S89G1021 |
| 350760 | 50D47-905 | 50E47-40 | 50G47-40 | HS780-17NL-104A | HS780-34NL-108A | S8610U1000 | S89G1047 |
| 3591-1306 | 50D47-915 | 50E47-50 | 50G47-60 | HS780-17NL-106A | HS780-34NL-304A | S890C1007 | S89H1003 |
| 3XA74 | 50D47-925 | 50E47-560 | 6279527 | HS780-17NL-108A | HS780-34NL-306A | S890D1006 | S89H1011 |
| 4CZ50 | 50D47-935 | 50E47-60 | 780-780 | HS780-17NL-304A | HS780-34NL-308A | S890G1003 | S89H1029 |
| 4E954 | 50D47-945 | 50E47-70 | 780-783 | HS780-17NL-306A | HS780-34NL-312A | S890G1011 | S89J1008 |
| 4E955 | 50D47-955 | 50E47-841 | 780-784 | HS780-17NL-308A | HS780-34NR-104A | S890G1029 | X13130437070 |
| 4E956 | 50D47-965 | 50E47-843 | 780-785 | HS780-17NR-104A | HS780-34NR-106A | S890G1037 | X13130437080 |
| 50D47-1 | 50D47-975 | 50E47-850 | 780-786 | HS780-17NR-106A | HS780-34NR-304A | S890H1002 | X324601 |
| 50D47-101 | 50E47-1 | 50E47-851 | 780-787 | HS780-17NR-108A | HS780-34NR-306A | S890H1010 | |
| 50D47-120 | 50E47-10 | 50E47-860 | 780-788 | HS780-17NR-304A | HS780-34NR-308A | S890H1028 | |
| 50D47-140 | 50E47-101 | 50E47-861 | 780-789 | HS780-17NR-306A | HS780-34NR-312A | S8910U | |
| 50D47-150 | 50E47-110 | 50E47-870 | 780-790 | HS780-17NR-308A | HS780-34PL-104A | S8910U1000 | |



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|---------------|-----------|-----------|-----------|-----------------|-----------------|-----------------|--------------|
| 0050050 | 50D47-160 | 50E47-120 | 50F47-101 | 780-910 | HS780-17NR-312A | HS780-34PL-106A | S89C1004 |
| 025-25436-000 | 50D47-161 | 50E47-130 | 50F47-140 | 832-002 | HS780-17PL-106A | HS780-34PL-108A | S89C1012 |
| 02525436700 | 50D47-170 | 50E47-140 | 50F47-160 | 832-005 | HS780-17PL-108A | HS780-34PL-304A | S89C1046 |
| 025-25436-700 | 50D47-20 | 50E47-150 | 50F47-40 | 833-002 | HS780-17PL-304A | HS780-34PL-306A | S89C1079 |
| 1001346 | 50D47-260 | 50E47-160 | 50F47-60 | 995395 | HS780-17PL-306A | HS780-34PL-308A | S89C1087 |
| 10376732 | 50D47-270 | 50E47-161 | 50G47-1 | 99796380 | HS780-17PL-308A | HS780-34PR-106A | S89C1103 |
| 120-08027 | 50D47-40 | 50E47-170 | 50G47-130 | 99905232 | HS780-17PR-104A | HS780-34PR-108A | S89D1002 |
| 1300-4928 | 50D47-50 | 50E47-20 | 50G47-140 | C6411102 | HS780-17PR-108A | HS780-34PR-304A | S89G1005 |
| 1380694 | 50D47-60 | 50E47-260 | 50G47-150 | CNT03776 | HS780-17PR-306A | HS780-34PR-306A | S89G1013 |
| 2076-0184 | 50D47-70 | 50E47-30 | 50G47-160 | CNT03794 | HS780-34NL-106A | HS780-34PR-308A | S89G1021 |
| 350760 | 50D47-905 | 50E47-40 | 50G47-40 | HS780-17NL-104A | HS780-34NL-108A | S8610U1000 | S89G1047 |
| 3591-1306 | 50D47-915 | 50E47-50 | 50G47-60 | HS780-17NL-106A | HS780-34NL-304A | S890C1007 | S89H1003 |
| 3XA74 | 50D47-925 | 50E47-560 | 6279527 | HS780-17NL-108A | HS780-34NL-306A | S890D1006 | S89H1011 |
| 4CZ50 | 50D47-935 | 50E47-60 | 780-780 | HS780-17NL-304A | HS780-34NL-308A | S890G1003 | S89H1029 |
| 4E954 | 50D47-945 | 50E47-70 | 780-783 | HS780-17NL-306A | HS780-34NL-312A | S890G1011 | S89J1008 |
| 4E955 | 50D47-955 | 50E47-841 | 780-784 | HS780-17NL-308A | HS780-34NR-104A | S890G1029 | X13130437070 |
| 4E956 | 50D47-965 | 50E47-843 | 780-785 | HS780-17NR-104A | HS780-34NR-106A | S890G1037 | X13130437080 |
| 50D47-1 | 50D47-975 | 50E47-850 | 780-786 | HS780-17NR-106A | HS780-34NR-304A | S890H1002 | X324601 |
| 50D47-101 | 50E47-1 | 50E47-851 | 780-787 | HS780-17NR-108A | HS780-34NR-306A | S890H1010 | |
| 50D47-120 | 50E47-10 | 50E47-860 | 780-788 | HS780-17NR-304A | HS780-34NR-308A | S890H1028 | |
| 50D47-140 | 50E47-101 | 50E47-861 | 780-789 | HS780-17NR-306A | HS780-34NR-312A | S8910U | |
| 50D47-150 | 50E47-110 | 50E47-870 | 780-790 | HS780-17NR-308A | HS780-34PL-104A | S8910U1000 | |