



50E47-843

UNIVERSAL 50E47-843 NON-INTEGRATED HSI IGNITION MODULE

The Universal 50E47-843 Replaces ALL White-Rodgers 50E47 Modules and Virtually All 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 |

CROSS REFERENCE

50E47-843 Replaces:

| | | | | |
|-----------|-----------------|-----------------|-----------------|-------------|
| 50D47-140 | 50E47-40 | HS780-17NL-304A | HS780-34NL-308A | S890G 1011 |
| 50D47-150 | 50E47-50 | HS780-17NL-306A | HS780-34NL-312A | S890G 1029 |
| 50D47-160 | 50E47-60 | HS780-17NL-308A | HS780-34NR-104A | S890G 1037 |
| 50D47-161 | 50E47-70 | HS780-17NR-104A | HS780-34NR-106A | S890H 1002 |
| 50D47-170 | 50E47-843 | HS780-17NR-106A | HS780-34NR-304A | S890H 1010 |
| 50D47-50 | 50F47-60 | HS780-17NR-108A | HS780-34NR-306A | S890H 1028 |
| 50D47-60 | 780-780 | HS780-17NR-304A | HS780-34NR-308A | S8910U 1000 |
| 50D47-70 | 780-783 | HS780-17NR-306A | HS780-34NR-312A | S89C 1004 |
| 50E47-1 | 780-784 | HS780-17NR-308A | HS780-34PL-104A | S89C 1012 |
| 50E47-10 | 780-785 | HS780-17NR-312A | HS780-34PL-106A | S89C 1046 |
| 50E47-101 | 780-786 | HS780-17PL-106A | HS780-34PL-108A | S89C 1079 |
| 50E47-110 | 780-787 | HS780-17PL-108A | HS780-34PL-304A | S89C 1087 |
| 50E47-120 | 780-788 | HS780-17PL-304A | HS780-34PL-306A | S89C 1103 |
| 50E47-130 | 780-789 | HS780-17PL-306A | HS780-34PL-308A | S89D 1002 |
| 50E47-140 | 780-790 | HS780-17PL-308A | HS780-34PR-106A | S89G 1005 |
| 50E47-150 | 780-910 | HS780-17PR-104A | HS780-34PR-108A | S89G 1013 |
| 50E47-160 | 832-002 | HS780-17PR-108A | HS780-34PR-304A | S89G 1021 |
| 50E47-161 | 832-005 | HS780-17PR-306A | HS780-34PR-306A | S89G 1047 |
| 50E47-170 | 833-002 | HS780-34NL-106A | HS780-34PR-308A | S89H 1003 |
| 50E47-20 | HS780-17NL-104A | HS780-34NL-108A | S890C 1007 | S89H 1011 |
| 50E47-30 | HS780-17NL-106A | HS780-34NL-304A | S890D 1006 | S89H 1029 |
| | HS780-17NL-108A | HS780-34NL-306A | S890G 1003 | S89J 1008 |

Agency A.G.A. and C.G.A. design certified



TECHNICAL HELP

Wiring operation and troubleshooting. See pages 274-277

| 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. |