

***Carlin***<sup>TM</sup>  
*Combustion Technology, Inc.*

**2015**

**Parts List**

Effective July 1, 2015



# LIMITED WARRANTY

Carlin Combustion Technology, Inc. (Carlin) warrants its products, to the original purchaser (the Customer), to be free from defects in material and workmanship, under normal use and service as follows:

- Residential burners and Carlin brand components: 36 months from date of manufacture.
- Commercial burners: 12 months from date of manufacture
- Non-Carlin brand components supplied on Carlin burners: 12 months from date of installation or 18 months from date of manufacture, whichever date occurs first.

This warranty does not extend to equipment subjected to misuse, neglect, accident and water damage; nor does this warranty apply unless the product covered by it is properly installed by a qualified competent technician, who is licensed where state or local codes require, and who is experienced in making such installations, in accordance with NFPA No. 31 and NFPA No. 54 (National Fuel Gas Code) of the National Fire Protection Association and in accordance with all applicable local, state, and national codes.

Parts that are defective in material or workmanship and within the warranty period will, at Carlin's discretion, be credited, repaired or replaced as follows:

- **Non-Carlin brand components supplied on Carlin burners** should be sent for repair, replacement or credit to an authorized service point or distributor of the manufacturer of such components when reasonably available in the Customer's locality.
- **Carlin brand components**, or non-Carlin brand components where a local distributor is not available, should be returned to Carlin freight prepaid. Parts determined by Carlin to be covered by this warranty will, at Carlin's discretion, be credited at the original purchase price or repaired or replaced and sent to the Customer freight prepaid.
- **Carlin Burners** are not covered by this warranty unless the Customer receives authorization from Carlin's Technical Service Department before returning the burner. When such authorization is granted, the burner should be returned to Carlin freight prepaid. Burners determined by Carlin to be covered by this warranty will, at Carlin's discretion, be credited at the original purchase price or repaired or replaced and sent to the Customer freight prepaid.

Carlin is not responsible for any labor cost for removal and replacement of equipment.

Equipment that is repaired or replaced will carry the unexpired portion of the original equipment Warranty.

If inspection by Carlin does not disclose any defect covered by this Warranty, the equipment may be repaired or replaced at the expense of the Customer, and Carlin's regular charges will apply.

This Warranty is limited to the precise terms set forth above, and provides **EXCLUSIVE** remedies expressly in lieu of all other remedies and in particular there shall be **EXCLUDED the implied warranties of merchantability and fitness for a particular purpose**. In no event will Carlin be liable for any incidental or consequential damage of any nature\*. Carlin neither assumes nor authorizes any person to assume for Carlin any other liability or obligations in connection with the sale of this equipment. Carlin's liability and Customer's exclusive remedy being limited to credit, repairs or replacement as set forth above.

\*FROZEN PIPES/WATER DAMAGE: Suitable freeze protection monitoring or other precautions are recommended to protect against ruptured pipes/water damage caused by fuel outage, safety related fault conditions, or equipment failures.

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| Part No. | Description | Case Qty. |
|----------|-------------|-----------|
|----------|-------------|-----------|

| PRIMARY CONTROL – For Universal Replacement |   |    |
|---|---|----|
| 70200S                                      | Fully Adjustable Control with Alarm & Blocked Vent Contacts | 15 |

| PRIMARY CONTROLS – For Like-for-Like Replacement |  |    |
|--|--|----|
| 4020002S   | 15 Sec. TFI. Interrupted Duty  | 15 |
| 4223002S   | 30 Sec. TFI. Interrupted Duty  | 15 |
| 48245S   | 45 Sec. TFI. Constant/Intermittent Duty with Smart Ignition                | 15 |
| 5020002S   | 15 Sec. TFI. Interrupted Duty. Alarm Contacts                              | 15 |
| 6020002S*  | 15 Pre/15 TFI/15 Post. Interrupted Duty. Alarm Contacts                    | 15 |
| 6020002S015120                                   | 15 Pre/15 TFI/120 Post. Interrupted Duty. Alarm Contacts                   | 15 |
| 6020002S030015                                   | 30 Pre/15 TFI/15 Post. Interrupted Duty. Alarm Contacts                    | 15 |
| 6020051S   | 10 Pre/15 TFI/0 Post. Interrupted Duty. Alarm Contacts                     | 15 |
| 6020002S030030                                   | 30 Pre/15 TFI/30 Post. Interrupted Duty. Alarm Contacts                    | 15 |
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| 6020002S030300                                   | 30 Pre/15 TFI/300 Post. Interrupted Duty. Alarm Contacts                   | 15 |
| 6020002S060010                                   | 60 Pre/15 TFI/10 Post. Interrupted Duty. Alarm Contacts                    | 15 |
| 60240S11   | 10 Pre/15 TFI/10 Post. Interrupted Duty. Alarm Contacts. 208-240V, 50/60Hz | 15 |

\*Exact replacement for Weil McLain primary controls

| GAS PRIMARY CONTROLS |   |    |
|----------------------|---|----|
| 6020002FR363S        | 30 Pre/6 TFI/30 Post. Flame Rod Gas Control (EZ-Gas & 201GAS burners) | 15 |
| 6020002FR943S        | 90 Pre/4 TFI/30 Post. Flame Rod Gas Control (301GAS & 601GAS burners) | 15 |
| 6020002FRS           | 30 Pre/4 TFI/30 Post. Flame Rod Gas Control (301GAS & 601GAS burners) | 15 |

| PARTS & ACCESSORIES |  |     |
|---------------------|--|-----|
| 14407SOE            | Cad Cell Assembly, Service Kit 22"                                   | N/A |
| 4002400A            | Cad Cell, Eye Only   | N/A |
| 98225S              | Kit, Valve-Relay for 60200-02 (701/702CRD, 801CRD, 1050FFD, 1150FFD) | N/A |
| 98435S              | Kool-Kit, "M" Interface PCB w/Transformer                            | N/A |



| Part No.                            | Description   | Case Qty. |
|-------------------------------------|---|-----------|
| <b>UNIVERSAL IGNITOR</b>            |   |           |
| 45000S                              | 110V Heavy Duty Ignitor – Mounts to any base plate <b>NEW</b>   | 30        |
| <b>IGNITORS ONLY – NO BASEPLATE</b> |   |           |
| 41000S                              | 110V Ignitor  | 30        |
| 4070001S                            | 220V Ignitor  | 30        |
| 4180002S1                           | 120V Ignitor – Single-Pole Secondary (EZ-Gas)   | 30        |
| 4180002S2                           | 120V Ignitor – Single-Pole Secondary (201 Gas)  | 30        |
| 4180002S                            | 120V Ignitor – Single-Pole Secondary (301 Gas)  | 30        |
| <b>IGNITORS ON BASEPLATES</b>       |   |           |
| 41000SOCAS                          | Ignitor/Base Carlin   | 12        |
| 41000SOSC                           | Ignitor/Base Carlin (201-301CRD)  | 12        |
| 41000SOLC                           | Ignitor/Base Carlin (601CRD, 701CRD, 702CRD, 801CRD, 1050FFD, 1150FFD & 601GAS, 702GAS, 702G/O Burners)   | 12        |
| 41000SOBK1                          | Ignitor/Base Beckett AF, AFG  | 12        |
| 41000SOBK2                          | Ignitor/Base Beckett S, SR  | 12        |
| 41000SOWA1                          | Ignitor/Base Wayne HS   | 12        |
| 41000SOWA2                          | Ignitor/Base Wayne E  | 12        |
| 41000SOWA3                          | Ignitor/Base Wayne M  | 12        |
| 41000SOWM                           | Ignitor/Base Weil McLain QB   | 12        |
| <b>UNIVERSAL IGNITOR KIT</b>        |   |           |
| 41000SOKIT                          | Universal Ignitor Kit – includes two 41000S Ignitors and 4102000CAS, 4102000BK1, 4102000WA4, 4102000WA3 Base Plates Kits and 41DTK01 Universal Ignitor Terminal Kit | 6         |
| <b>BASEPLATES</b>                   |   |           |
| 4102000CAS                          | Base Plate Kit Carlin Residential   | 20        |
| 4102000CSC                          | Base Plate Kit Carlin Small Commercial (201-301CRD)   | 20        |
| 4102000CLC                          | Base Plate Kit Carlin Large Commercial (601CRD-1150FFD)   | 20        |
| 4102000BK1                          | Base Plate Kit Beckett  | 20        |
| 4102000BK2                          | Base Plate Kit Beckett S, SR  | 20        |
| 4102000WA2                          | Base Plate Kit Wayne E  | 20        |
| 4102000WA3                          | Base Plate Kit Wayne M  | 20        |
| 4102000WM                           | Base Plate Kit Weil McLain  | 20        |
| <b>ACCESSORIES</b>                  |   |           |
| 41DTK01                             | Universal Ignitor Terminal Kit  | N/A       |
| 98061A                              | Transition Piece for 41000 Series Ignitor   | N/A       |
| 4102000WA1                          | Interface Plate and Gasket Kit Wayne HS   | 20        |



■ Items that are shaded are considered stock items and will ship in 3-5 days.

| Part No.          | Description   |
|-------------------|---|
| <b>PSC MOTORS</b> |   |
| 98022S*           | 1/6 hp, 120 vac, 60 Hz, 48M Frame (For Residential Burners)           |
| 98611S            | 1/6 hp, 120 vac, 60 Hz, 48N Frame (For Carlin 201GAS, 301GAS Burners) |
| 98627S            | 1/6 hp, 220/240 vac, 50/60 Hz, 48M Frame (For Residential Burners)    |
| 98629S            | 1/15 hp, 120 vac, 60 Hz, 48M Frame (For Carlin EZ Gas Burner)         |
| 98630S            | 1/4 hp, 120 vac, 60 Hz, 48N Frame (For Carlin 201/301 Oil Burners)    |
| 98866S            | 1/6 hp, 120 vac, 60 Hz, 48N Frame, 1725 rpm                           |
| 99220S            | 1/4 hp, 220 vac, 50 Hz, 48N Frame (For Carlin 201/301 Oil Burners)    |

\*120 motors per pallet

| Part No.                                 | Description  |
|--|--|
| <b>PSC MOTORS REPLACEMENT CAPACITORS</b> |  |
| 98022CAPS                                | 1/6 hp, 120 vac, 60 Hz, 48M Frame, 16 Micro-Farad    |
| 98629CAPS                                | 1/15 hp, 120 vac, 60 Hz, 48M Frame, 12.5 Micro-Farad |
| 98630CAPS                                | 1/4 hp, 120 vac, 60 Hz, 48N Frame, 25 Micro-Farad    |



98022S

| Part No.   | Description  | Replaces | Temp Limit (F)       | High Limit (F)    | Case Quantity |
|--|--|----------|----------------------|-------------------|---------------|
| <b>90000 SINGLE LIMIT – UNIVERSAL TEMPERATURE CONTROLS</b> |  |          |                      |                   |               |
| 90000BL1S  | Install Pak – Dual limit (operating limit and manual reset high limit) temperature control for direct fired storage water heaters (and other similar applications). Includes control, J-Box, mounting hardware, 98917A sensor, and 98861C well. UL Listed.           | N/A      | 90°-160°<br>8° Diff. | 180°<br>10° Diff. | 20            |
| 90000B1S   | Service Pak – Dual limit (operating limit and manual reset high limit) temperature control for direct fired storage water heaters (and other similar applications). Includes temperature control only. <b>Replacement for Carlin Model 90000BL1S.</b> UL Recognized. | L4103A   | 90°-160°<br>8° Diff. | 180°<br>10° Diff. | 20            |

**INDIRECT & DIRECT FIRED STORAGE WATER HEATER TEMPERATURE CONTROLS**

|  |  |                  |                       |     |    |
|--|--|------------------|-----------------------|-----|----|
| <b>90200 SINGLE LIMIT TEMPERATURE CONTROLS – INSTALL PAK</b> |  |                  |                       |     |    |
| 90200AL6S  | Bradford White – Aero Series Recommended Temperature Range Install Pak – Includes temperature control, J-Box, 98861C well (5.5" length), 98917A sensor and mounting hardware. UL Listed.   | L4006A<br>L4080B | 120°-145°<br>6° Diff. | N/A | 20 |
| <b>90200 SINGLE LIMIT TEMPERATURE CONTROLS – SERVICE PAK</b> |  |                  |                       |     |    |
| 90200A6S   | Bradford White – Aero Series Recommended Temperature Range Service Pak – Single limit temperature control for direct fired storage water heater (and similar applications). Includes temperature control only. <b>Replacement for Carlin Model 90200AL6S.</b> UL Recognized. | L4006A<br>L4080B | 120°-145°<br>6° Diff. | N/A | 20 |
| 90200A7S   | Bock Residential Recommended Temperature Range Service Pak – Single limit temperature control for direct fired storage water heater (and similar applications). Includes temperature control only. <b>Replacement for Carlin Model 90200AL7S.</b> UL Recognized.             | L4006A<br>L4080B | 100°-160°<br>8° Diff. | N/A | 20 |
| 90200A8S   | Therma-Flo Everhot Recommended Temperature Range Service Pak – Single limit temperature control for direct fired storage water heater (and similar applications). Includes temperature control only. <b>Replacement for Carlin Model 90200AL8S.</b> UL Recognized.           | L4006A<br>L4080B | 90°-130°<br>8° Diff.  | N/A | 20 |

**INDIRECT FIRED STORAGE WATER HEATER TEMPERATURE CONTROLS**

|  |   |                    |                        |                   |    |
|--|---|--------------------|------------------------|-------------------|----|
| <b>90224 LOW VOLTAGE SINGLE LIMIT TEMPERATURE CONTROLS – SERVICE PAK</b>     |   |                    |                        |                   |    |
| 90224A2S   | Service Pak – 24 Volt Single limit temperature control for indirect fired storage water heaters (and similar applications). Includes temperature control only. <b>Replacement for Carlin Model 90224AL2S.</b>                                       | L4006A<br>L4080B   | 90°-160°<br>6° Diff.   | N/A               | 20 |
| <b>90000 DUAL LIMIT TEMPERATURE CONTROLS WITH MANUAL RESET – SERVICE PAK</b> |   |                    |                        |                   |    |
| 90000A2S   | Service Pak – Dual limit (operating limit and manual reset high limit) temperature control for hot water boilers (and other similar applications). Includes temperature control only. <b>Replacement for Carlin Model 90000AL2S.</b> UL Recognized. | L4006A &<br>L4006E | 160°-210°<br>20° Diff. | 220°<br>10° Diff. | 20 |

| Part No. | Description | Replaces HW Models | Temp Limit (F) | High Limit (F) | Case Quantity |
|----------|-------------|--------------------|----------------|----------------|---------------|
|----------|-------------|--------------------|----------------|----------------|---------------|

**DIRECT FIRED STORAGE WATER HEATER TEMPERATURE CONTROLS**

| <b>90000 DUAL LIMIT TEMPERATURE CONTROLS WITH MANUAL RESET – INSTALL PAK</b> |   |        |                       |                   |    |
|--|---|--------|-----------------------|-------------------|----|
| 90000BL2S  | Bock Residential Recommended Temperature Range Install Pak – Dual limit (operating limit and manual reset high limit) temperature control for direct fired storage water heaters (and other similar applications). Includes temperature control, J-Box, 98861B well (2.4" length), 98917A single sensor and mounting hardware. UL Listed.                 | L4103A | 100°-160°<br>8° Diff. | 180°<br>10° Diff. | 20 |
| 90000BL10S   | Thermo-Flo Everhot Recommended Temperature Range Install Pak – Dual limit (operating limit and manual reset high limit) temperature control for direct fired storage water heaters (and other similar applications). Includes temperature control, J-Box, 98861C well (5.5" length), 98917A single sensor and mounting hardware. UL Listed.               | L4103A | 90°-130°<br>8° Diff.  | 160°<br>10° Diff. | 20 |
| 90000CL5S  | John Wood Recommended Temperature Range Install Pak for Models JWF307, JWF507 – Dual limit (operating limit and manual reset high limit) temperature control for direct fired storage water heaters (and other similar applications). Includes temperature control, J-Box, 98861Gwell (4.7" length), 98917B dual sensor and mounting hardware. UL Listed. | L4103A | 90°-160°<br>10° Diff. | 200°<br>1° Diff.  | 20 |

| <b>90000 DUAL LIMIT TEMPERATURE CONTROLS WITH MANUAL RESET – SERVICE PAK</b> |   |  |                       |                   |    |
|--|---|--|-----------------------|-------------------|----|
| 90000B2S   | Bock Residential Recommended Temperature Range Service Pak – Dual limit (operating limit and manual reset high limit) temperature control for direct fired storage water heaters (and other similar applications). Includes temperature control only. <b>Replacement for Carlin Model 90000BL2S.</b> UL Recognized.             |  | 100°-160°<br>8° Diff. | 180°<br>10° Diff. | 20 |
| 90000B4S   | Bradford White – Aero Series Recommended Temperature Range Service Pak – Dual limit (operating limit and manual reset high limit) temperature control for direct fired storage water heaters (and other similar applications). Includes temperature control only. <b>Replacement for Carlin Model 90000BL4S.</b> UL Recognized. |  | 120°-145°<br>6° Diff. | 165°<br>6° Diff.  | 20 |
| 90000B10S  | Thermo-Flo Everhot Recommended Temperature Range Service Pak – Dual limit (operating limit and manual reset high limit) temperature control for direct fired storage water heaters (and other similar applications). Includes temperature control only. <b>Replacement for Carlin Model 90000BL10S.</b> UL Recognized.          |  | 90°-130°<br>8° Diff.  | 160°<br>10° Diff. | 20 |
| 90000C5S   | John Wood Recommended Temperature Range Service Pak – Dual limit (operating limit and manual reset high limit) temperature control for direct fired storage water heaters (and other similar applications). Includes temperature control only. <b>Replacement for Carlin Model 90000CL5S &amp; 90000CL5PS.</b> UL Recognized.   |  | 90°-160°<br>10° Diff. | 200°<br>1° Diff.  | 20 |



| Part No. | Description | Replaces HW Models | Temp Limit (F) | High Limit (F) | Case Quantity |
|----------|-------------|--------------------|----------------|----------------|---------------|
|----------|-------------|--------------------|----------------|----------------|---------------|

**COMMERCIAL DIRECT FIRED STORAGE WATER HEATER TEMPERATURE CONTROLS**

| <b>90300 DUAL LIMIT TEMPERATURE CONTROLS WITH MANUAL RESET – INSTALL PAK</b> |   |                 |                       |                   |    |
|--|---|-----------------|-----------------------|-------------------|----|
| 90300BL1S  | Bock Commercial Recommended Temperature Range Install Pak – Dual limit (operating limit and manual reset high limit) for direct fired commercial storage water heaters (and similar applications). Includes temperature control, J-Box, two 98861B wells (both 2.4" length), three sensors (one dual 98917G and one single 98917A), and mounting hardware. UL Listed. | L4080B & L8100C | 100°-180°<br>8° Diff. | 200°<br>10° Diff. | 20 |
| <b>90300 DUAL LIMIT TEMPERATURE CONTROLS WITH MANUAL RESET – SERVICE PAK</b> |   |                 |                       |                   |    |
| 90300B1S   | Bock Commercial Recommended Temperature Range Service Pak – Dual limit (operating limit and manual reset high limit) for direct fired commercial storage water heaters (and similar applications). Includes temperature control only. <b>Replacement for Carlin Model 90100BL1S.</b> UL Recognized.   | L4080B & L8100C | 100°-180°<br>8° Diff. | 200°<br>10° Diff. | 20 |

**COMMERCIAL BOILER TEMPERATURE CONTROLS**

| <b>90000CE COMBO OPERATING LIMIT AND MANUAL RESET HIGH LIMIT TEMPERATURE CONTROLS – SERVICE PAK</b> |  |                 |                      |            |    |
|---|--|-----------------|----------------------|------------|----|
| 90000CE1S   | Service Pak – Dual limit (operating limit and manual reset high limit) temperature control for commercial boilers (and other similar applications). Includes dual limit temperature control only. <b>Replacement for Carlin Model 90000CEL1S.</b> UL Recognized. | L4006A & L4006E | 80°-230°<br>5° Diff. | 240° Fixed | 20 |

**ACCESSORIES**

| <b>WELL KITS</b>         |  |
|--------------------------|--|
| 98861AS                  | 2.61" with Insulation Depth = 1.55", Insertion Depth = 1.06", 3/4" NPT   |
| 98861BS                  | 3.51" with Insulation Depth = 2.45", Insertion Depth = 1.06", 3/4" NPT   |
| 98861CS                  | 5.46" with Insulation Depth = 4.40", Insertion Depth = 1.06", 3/4" NPT   |
| 98861DS                  | 6.18" with Insulation Depth = 5.12", Insertion Depth = 1.06", 3/4" NPT   |
| 98861FS                  | 6.65" with Insulation Depth = 4.40", Insertion Depth = 2.25", 3/4" NPT for use with John Wood Model JW317-717  |
| 98861GS                  | 4.7" with Insulation Depth = 2.45", Insertion Depth = 2.25", 3/4" NPT for use with John Wood Models JWF307, JWF507, JWF357.  |
| <b>SENSORS</b>           |  |
| 98917AS                  | Single Sensor for use in well, 12" leads   |
| 98917BS                  | Dual Sensor for use in well, 12" leads   |
| 98917JS                  | Triple Sensor for use in well, 18" leads   |
| 98917FS                  | Single Sensor for use in well, 24" leads   |
| 98917HS                  | Dual Sensor for use in well, 36" leads   |
| 98917ES                  | Single Sensor for use in well, 48" leads   |
| 98917CS                  | Single Sensor, Surface Mount, 120" leads   |
| 98917DS                  | Single Sensor for use in well, 120" leads  |
| 98917GS                  | Dual Sensor for use in well, 120" leads  |
| <b>MOUNTING HARDWARE</b> |  |
| 99873S                   | EZ-Temp mounting hardware for Carlin well or existing well – Includes longest rubber retainer, retainer washer, lock washer, jam nut, well clamp, sensor retainer spring, flat washer, and tensioning screw. |

■ Items that are shaded are considered stock items and will ship in 3-5 days.

| Part No.                              | Description                          |
|---------------------------------------|--------------------------------------|
| <b>EZ-PRO OIL BURNERS WITH COVERS</b> |                                      |
| 9687607JC                             | EZ-1, 7" Air Tube, Universal Flange  |
| 9687609JC                             | EZ-1, 9" Air Tube, Universal Flange  |
| 9687611JC                             | EZ-1, 11" Air Tube, Universal Flange |

Note: If swing out door on boiler, you will need to order flex line separately.  
 Note: If two-pipe oil line system, you will need to order the two-pipe oil line kit separately.  
 Note: If outside air/direct venting is required, you will need to order the 50433KIT.

**STANDARD EQUIPMENT – FLEX LINES OR OUTSIDE AIR INLET KIT NOT INCLUDED WITH BURNER**

- Most OEM burners are available with the cover. Consult the factory for pricing and part numbers.
1. EZ-Pro Chassis (0.50-2.60)
  2. Carlin 98022 1/6 HP PSC Motor
  3. Carlin 70200 Fully Adjustable Control
  4. Carlin 41000 Constant Duty Ignitor (14KV Secondary)
  5. Suntec A2VA-3006 Single-Stage Fuel Unit with Integral Solenoid Valve
  6. Single Pipe Oil Line
  7. Nozzle Line Heater
  8. 7", 9", or 11" Air Tube and Combustion Head with Stainless Steel Nose Cone

| Part No.   | Description                    |
|--|--------------------------------|
| <b>"A" PACKAGE = EZ-1 BURNER, 48245 INTERMITTENT DUTY CONTROL</b>  |                                |
| 96876-05A  | Above Package with 5" Air Tube |
| 96876-07A  | Above Package with 7" Air Tube |
| 96876-09A  | Above Package with 9" Air Tube |
| <b>"B" PACKAGE = EZ-1 BURNER, 40200 INTERRUPTED DUTY CONTROL</b>   |                                |
| 96876-05B  | Above Package with 5" Air Tube |
| 96876-07B  | Above Package with 7" Air Tube |
| 96876-09B  | Above Package with 9" Air Tube |
| <b>"K" PACKAGE = EZ-1 BURNER, 42230 INTERRUPTED DUTY CONTROL</b>   |                                |
| 96876-0500K  | Above Package with 5" Air Tube |
| 96876-0700K  | Above Package with 7" Air Tube |
| 96876-0900K  | Above Package with 9" Air Tube |
| <b>"EZ-PRO" PACKAGE = EZ-1 BURNER, 70200 FULLY ADJUSTABLE CONTROL W/ ALARM &amp; BLOCKED VENT CONTACTS</b> |                                |
| 96876-05JP   | Above Package with 5" Air Tube |
| 96876-07JP   | Above Package with 7" Air Tube |
| 96876-09JP   | Above Package with 9" Air Tube |

**STANDARD EQUIPMENT – ALL ABOVE**

1. EZ-1 Burner
2. 41000 Carlin Solid State Ignitor
3. CAD Cell
4. Single-Stage Pump ( EZ-Pro Only – Suntec 3006 Single-Stage Fuel Unit with Solenoid Valve )
5. Air Tube
6. Combustion Head
7. Nozzle Line Heater
8. Universal Flange and Gasket

| Part No. | Description |
|----------|-------------|
|----------|-------------|

**EZ OIL BURNER CHASSIS. FOLLOWING PRICES ARE FOR CHASSIS ONLY.**

|            |  |
|------------|--|
| 9687600E   | EZ-1, Junction Box, 41000 Ignitor, Cad Cell, 1 Stage Pump                                      |
| 81201      | EZ-1, Carlin 48245 Intermittent Duty Control, 41000 Ignitor, Cad Cell, 1 Stage Pump            |
| 8120100B   | EZ-1, Carlin 40200 Interrupted Duty Control, 41000 Ignitor, Cad Cell, 1 Stage Pump             |
| 9687600JI  | EZ-1, Carlin 70200 Fully Adjustable Control, Inst. Oil Valve, 41000 Ignitor, Cad Cell, 1 Stage |
| 84801      | EZ-2, Carlin 48245 Intermittent Duty Control, 41000 Ignitor, Cad Cell, 1 Stage Pump            |
| 8480100B   | EZ-2, Carlin 40200 Interrupted Duty Control, 41000 Ignitor, Cad Cell, 1 Stage Pump             |
| 969950000J | EZ-2, Carlin 70200 Fully Adjustable Control, Inst. Oil Valve, 41000 Ignitor, Cad Cell, 1 Stage |
| 969960000E | EZ-3, Junction. Box, 41000 Ignitor, Cad Cell, 1 Stage Pump                                     |
| 86401      | EZ-3, Carlin 48245 Intermittent Duty Control, Ignitor, Cad Cell, 1 Stage Pump                  |
| 8640100B   | EZ-3, Carlin 40200 Interrupted Duty Control, 41000 Ignitor, Cad Cell, 1 Stage Pump             |
| 969960000J | EZ-3, Carlin 70200 Fully Adjustable Control, Inst. Oil Valve, 41000 Ignitor, Cad Cell, 1 Stage |

| Part No. | Description |
|----------|-------------|
|----------|-------------|

**BURNER MOUNTED OPTIONS – ADD ONS**

|                |                                      |
|----------------|--------------------------------------|
| Contact Carlin | Pump 2 Stage, "B" (Suntec)           |
| Contact Carlin | Delayed Oil Valve                    |
| Contact Carlin | Carlin SVC Instant Opening Oil Valve |

**AIR TUBE AND COMBUSTION HEAD ASSEMBLIES – "CARLIN SUPER TUBE" WITH NOZZLE LINE HEATER**

|        |   |
|--------|---|
| 78071S | EZ-1, 5" Air Tube / Combustion Head Assembly / Nozzle Line Heater       |
| 78089S | EZ-1, 7" Air Tube / Combustion Head Assembly / Nozzle Line Heater       |
| 78105S | EZ-1, 9" Air Tube / Combustion Head Assembly / Nozzle Line Heater       |
| 78113S | EZ-1, 11" Air tube / Combustion Head Assembly / Nozzle Line Heater      |
| 84764S | EZ-2, 3, – 5" Air Tube / Combustion Head Assembly / Nozzle Line Heater  |
| 84772S | EZ-2, 3, – 7" Air Tube / Combustion Head Assembly / Nozzle Line Heater  |
| 84780S | EZ-2, 3, – 9" Air Tube / Combustion Head Assembly / Nozzle Line Heater  |
| 84798S | EZ-2, 3, – 11" Air Tube / Combustion Head Assembly / Nozzle Line Heater |

**MOUNTING FLANGE AND/OR PEDESTAL**

|        |   |
|--------|---|
| 23317S | Pedestal  |
| 72470S | Pedestal (10 pack)                                    |
| 81372S | 3-1/2" Heavy-Duty Universal Flange / Gasket           |
| 82560S | 3-1/2" Heavy-Duty Universal Flange / Gasket (10 pack) |

**NOZZLES**

|                |  |
|----------------|--|
| Contact Carlin | Nozzles – Consult Factory for Availability of Spray Patterns |
|----------------|--|

**STANDARD EQUIPMENT**

1. 41000 Carlin Solid State Ignitor
2. CAD Cell
3. Nozzle Line Heater
4. Carlin PSC Motor 1/6 hp, 3450 rpm
5. Single-Stage Fuel Unit



EZ-1

| Part No. | Description |
|----------|-------------|
|----------|-------------|

**COVER KITS FOR OIL BURNERS**

|          |  |
|----------|--|
| RESCVR1S | Cover Kit- Oil: Includes cover, backplate, mounting hardware |
|----------|--|

NOTE: Fits EZ-1, EZ-2, EZ-3, EZ-LF, EZ-Pro, EZ-66, 99FRD, 100CRD, and 102CRD manufactured after October 10, 2012



| Part No. | Description |
|----------|-------------|
|----------|-------------|

**OUTSIDE AIR/DIRECT VENT KIT**

|          |   |
|----------|---|
| 50433KIT | Includes: Filler Section for Backplate with mounting bolts, 4" Air Inlet with Mounting Screws, Insert for Oil Line Opening, 1-5/8" Grommet for BX Cable, push plugs |
|----------|---|

Filler Section for Backplate



Grommet



Insert for Oil Line Opening



4" Air Inlet



| Part No. | Description |
|----------|-------------|
|----------|-------------|

**OPTIONAL ACCESSORIES**

|       |                       |
|-------|-----------------------|
| 50271 | 36" Braided Flex Line |
|-------|-----------------------|

**BURNERS FOR BOILERS & FURNACES**

*Carlin manufactures hundreds of burners that are factory-set for specific oil-fired appliances. These burners (easily identified by a mounting flange that is welded onto the tube) can be purchased from the appliance manufacturer. If the appliance is no longer in production or the appliance manufacturer does not have the burner available, please contact us at 800-989-2275.*

**BURNERS FOR WATER HEATERS**

**BOCK WATER HEATER – EZ-1 BURNERS**

Carlin burners for Bock water heaters are stocked by Bock and many of their Sales Representatives. Please contact Bock at 608-257-2225 for further assistance or call us at 800-989-2275.

| Part No. | Description | Input GPH | Burner Model |
|----------|-------------|-----------|--------------|
|----------|-------------|-----------|--------------|

| <b>BRADFORD WHITE WATER HEATERS</b> |            |           |        |
|-------------------------------------|------------|-----------|--------|
| 96845C32                            | CF32       | 0.65-0.75 | EZ-1   |
| 50648C38                            | CF38       | 1.75-2.50 | EZ66   |
| 96845C50                            | CF50       | 0.75-0.85 | EZ-1   |
| 96845C50                            | CF70       | 0.85      | EZ-1   |
| 96845C50                            | RF-30/30SX | 0.85      | EZ-1   |
| 50650C80                            | CF80       | 3.50-5.00 | 301CRD |
| 50649C10                            | CF100      | 2.50-3.00 | 102CRD |
| 96845R50                            | RF50       | 1.25-1.35 | EZ-1   |
| 50647R70                            | RF70       | 1.50-1.75 | EZ-2   |

| Part No. | Description | Temperature Range | Well Length / Part No. |
|----------|-------------|-------------------|------------------------|
|----------|-------------|-------------------|------------------------|

| <b>JOHN WOOD WATER HEATERS</b> |               |                     |                    |
|--------------------------------|---------------|---------------------|--------------------|
| 96986AJW307W                   | John Wood 307 | 100°-160°, 8° Diff. | 3.5" Part # 98861B |
| 96983AJW507W                   | John Wood 507 | 100°-160°, 8° Diff. | 3.5" Part # 98861B |
| 97397AJW707W                   | John Wood 707 | 100°-160°, 8° Diff. | 5.5" Part # 98861C |
| 97297AJW317W                   | John Wood 317 | 100°-160°, 8° Diff. | 5.5" Part # 98861C |
| 97397AJW517W                   | John Wood 517 | 100°-160°, 8° Diff. | 5.5" Part # 98861C |
| 97397AJW717W                   | John Wood 717 | 100°-160°, 8° Diff. | 5.5" Part # 98861C |

NOTE: To order with Dual Temperature Control, eliminate "W" at end of part number.

**STANDARD EQUIPMENT – ALL ABOVE**

1. EZ-1 Burner
2. 48245 Carlin Intermittent Duty Control
3. 41000 Carlin Solid State Ignitor
4. Welded Air Tube/Flange
5. 90200A Carlin EZ-Temp Prewired Single Limit with Well and Nozzle Installed (Unless Noted)
6. Carlin PSC Motor

| Part No. | Description |
|----------|-------------|
|----------|-------------|

**99FRD OIL BURNER CHASSIS**

|            |   |
|------------|---|
| 10201      | 99FRD Carlin 48245 Intermittent Duty Control, 41000 Ignitor, Cad Cell, 1 Stage Pump |
| 10504      | 99FRD Carlin 40200 Interrupted Duty Control, 41000 Ignitor                          |
| 97325      | 99FRD Carlin 41000 Ignitor Only, Junction Box                                       |
| 973250011J | 99FRD Carlin 70200 Fully Adjustable Control , 41000 Ignitor                         |

Note: Above burners come with 2 slot air bands and blank shutter. If firing over 2.25 GPH, you will need to order an open shutter.

| Part No. | Description |
|----------|-------------|
|----------|-------------|

**BURNER MOUNTED OPTIONS – ADD-ONS**

|                |  |
|----------------|--|
| Contact Carlin | Pump 2 Stage, “B” Style  |
| Contact Carlin | Suntec A2VA-3006 Single-Stage Fuel Unit with Integral Solenoid Valve |
| Contact Carlin | Carlin SVC Instant Opening Oil Valve                                 |
| Contact Carlin | Delayed Opening Oil Valve  |

**AIR TUBE AND COMBUSTION HEAD ASSEMBLIES**

|        |              |
|--------|--------------|
| 20180S | 5" Standard  |
| 20230S | 7" Standard  |
| 20313S | 9" Standard  |
| 19919S | 11" Standard |

**AIR TUBE AND CONVERSION KITS FOR OEM BOILERS**

|       |  |
|-------|--|
| 64006 | 5" WS (See Instruction Sheet P/N 64105 for Boiler Model) |
| 65524 | 7" WS (See Instruction Sheet P/N 67462 for Boiler Model) |

**MOUNTING FLANGE AND/OR PEDESTAL**

|        |                                      |
|--------|--------------------------------------|
| 23150S | 3" Universal Flange/Gasket           |
| 23317S | Pedestal                             |
| 72462S | 3" Universal Flange/Gasket (10 pack) |
| 72470S | Pedestal (10 pack)                   |

**NOZZLES**

|                |  |
|----------------|--|
| Contact Carlin | Nozzles – Consult Factory for Availability of Spray Patterns |
|----------------|--|

**STANDARD EQUIPMENT**

1. 41000 Carlin Solid State Ignitor
2. CAD Cell
3. Single-Stage Pump
4. Carlin PSC Motor 1/6 hp, 3450 rpm
5. 4" x 4" Junction Box for Field Wiring



99FRD

| Part No.                                       | Description   |
|--|---|
| <b>102CRD OIL BURNER CHASSIS</b>               |   |
| 97403  | 102CRD Carlin 40200 Interrupted Duty Control, 41000 Ignitor       |
| 974030011J                                     | 102CRD Carlin 70200 Fully Adjustable Control, 41000 Ignitor       |
| <b>BURNER MOUNTED OPTIONS – ADD-ONS</b>        |   |
| Contact Carlin                                 | Pump 2 Stage, "B" Style (in lieu of "A" pump)                     |
| Contact Carlin                                 | Suntec B2VA-4006 Two-Stage Fuel Unit with Integral Solenoid Valve |
| Contact Carlin                                 | Delayed Opening Oil Valve   |
| <b>AIR TUBE AND COMBUSTION HEAD ASSEMBLIES</b> |   |
| 21790S   | 5" with 2-5/8" I.D. Air Cone, 2.00-3.50 GPH "B" Style             |
| 21857S   | 7" with 2-5/8" I.D. Air Cone, 2.00-3.50 GPH "B" Style             |
| 21881S   | 9" with 2-5/8" I.D. Air Cone, 2.00-3.50 GPH "B" Style             |
| 21691S   | 11" with 2-5/8" I.D. Air Cone, 2.00-3.50 GPH "B" Style            |
| 21980S   | 5" with 3" I.D. Air Cone, 3.00-4.50 GPH "C" Style                 |
| 21998S   | 7" with 3" I.D. Air Cone, 3.00-4.50 GPH "C" Style                 |
| 22004S   | 9" with 3" I.D. Air Cone, 3.00-4.50 GPH "C" Style                 |
| 21915S   | 11" with 3" I.D. Air Cone, 3.00-4.50 GPH "C" Style                |
| <b>MOUNTING FLANGE GASKETS AND PEDESTALS</b>   |   |
| 23150S   | 3" Universal Flange/Gasket  |
| 23317S   | Pedestal  |
| 72462S   | 3" Universal Flange/Gasket (10 pack)                              |
| 72470S   | Pedestal (10 pack)  |
| <b>NOZZLES</b>                                 |   |
| Contact Carlin                                 | Consult Factory For Availability of Spray Patterns                |

**STANDARD EQUIPMENT**

1. 41000 Carlin Solid State Ignitor
2. CAD Cell
3. Single-Stage Pump
4. 4" x 4" Junction Box for Field Wiring
5. Carlin PSC Motor 1/6 hp, 3450 rpm
6. Carlin Instant Opening Oil Valve

| Part No.                                       | Description   |
|--|---|
| <b>201CRD OIL BURNER CHASSIS</b>               |   |
| 91629B01                                       | 201CRD Carlin 40200 Control, 41000 Ignitor, 1 Stage, "A" Pump                 |
| 91629B02                                       | 201CRD Carlin 70200 Fully Adjustable Control, 41000 Ignitor, 1 Stage "A" Pump |
| <b>BURNER MOUNTED OPTIONS – ADD-ONS</b>        |   |
| Contact Carlin                                 | Pump 2 Stage, "B" Style (in lieu of "A" pump)                                 |
| Contact Carlin                                 | NYC/BAR Nozzle Pressure Regulator Assembly Mounted on Burner                  |
| Contact Carlin                                 | Control Panel (also available for remote mounting)                            |
| Contact Carlin                                 | Control Sets  |
| <b>AIR TUBE AND COMBUSTION HEAD ASSEMBLIES</b> |   |
| 22046S   | 7" Standard   |
| 22053S   | 9" Standard   |
| 22012S   | 11" Standard  |
| 22020S   | 15" Standard  |
| <b>MOUNTING FLANGE AND/OR PEDESTAL</b>         |   |
| 23259S   | 4" Universal Flange/Gasket – Aluminum   |
| 23184S   | 4" Flange/Gasket for pressurized application                                  |
| 23358S   | Pedestal  |
| <b>NOZZLES</b>                                 |   |
| Contact Carlin                                 | Consult Factory for Availability of Spray Patterns                            |

**STANDARD EQUIPMENT**

1. 41000 Carlin Solid State Ignitor
2. CAD Cell
3. Single-Stage Pump
4. 4" x 4" Junction Box for Field Wiring
5. Carlin PSC Motor, 1/4hp, 3450 rpm
6. Carlin Instant Opening Oil Valve
7. Pressure Augmentor
8. Electronic Time Delay, 4 Sec. (Not Required with 70200 Control)



201CRD



| Part No.                                       | Description  |
|--|--|
| <b>301CRD OIL BURNER CHASSIS</b>               |  |
| 91652B01                                       | 301CRD Carlin 40200 Control, 41000 Ignitor, 1 Stage, "A" Pump                  |
| 91652B02                                       | 301CRD Carlin 70200 Fully Adjustable Control, 41000 Ignitor, 1 Stage, "A" Pump |
| <b>BURNER MOUNTED OPTIONS – ADD-ONS</b>        |  |
| Contact Carlin                                 | Pump 2 Stage, "B" Style (in lieu of "A" pump)                                  |
| Contact Carlin                                 | NYC/BAR Nozzle Pressure Regulator Assembly Mounted On Burner                   |
| Contact Carlin                                 | Control Panel  |
| Contact Carlin                                 | Control Sets   |
| <b>AIR TUBE AND COMBUSTION HEAD ASSEMBLIES</b> |  |
| 22293S   | 6" with 3-1/4" I.D. Air Cone, 3-6 GPH "B" Style                                |
| 22327S   | 8" with 3-1/4" I.D. Air Cone, 3-6 GPH "B" Style                                |
| 22202S   | 10" with 3-1/4" I.D. Air Cone, 3-6 GPH "B" Style                               |
| 22236S   | 14" with 3-1/4" I.D. Air Cone, 3-6 GPH "B" Style                               |
| 22442S   | 6" with 3-1/2" I.D. Air Cone, 4-7 GPH "C" Style                                |
| 22475S   | 8" with 3-1/2" I.D. Air Cone, 4-7 GPH "C" Style                                |
| 22350S   | 10" with 3-1/2" I.D. Air Cone, 4-7 GPH "C" Style                               |
| 22384S   | 14" with 3-1/2" I.D. Air Cone, 4-7 GPH "C" Style                               |
| <b>MOUNTING FLANGE AND/OR PEDESTAL</b>         |  |
| 23259S   | 4" Universal Flange/Gasket – Aluminum  |
| 23184S   | 4" Flange/Gasket for pressurized application                                   |
| 23358S   | Pedestal   |
| <b>NOZZLES</b>                                 |  |
| Contact Carlin                                 | Consult Factory for Availability of Spray Patterns                             |

**STANDARD EQUIPMENT**

1. 41000 Carlin Solid State Ignitor
2. CAD Cell
3. Single Stage Pump
4. 4" x 4" Junction Box for Field Wiring
5. Carlin PSC Motor, 1/4hp, 3450 rpm
6. Carlin Instant Opening Oil Valve
7. Pressure Augmentor
8. Electronic Time Delay, 4 Sec. (Not Required with 70200 Control)

COMMERCIAL OIL

| Part No. | Description |
|----------|-------------|
|----------|-------------|

**601CRD OIL BURNER CHASSIS**

|          |   |
|----------|---|
| 91660B03 | 601CRD Carlin 40200 Control, 41000 Ignitor, 2 Stage Pump                  |
| 91660B04 | 601CRD Carlin 70200 Fully Adjustable Control, 41000 Ignitor, 2 Stage Pump |

**BURNER MOUNTED OPTIONS – ADD-ONS**

|                |  |
|----------------|--|
| Contact Carlin | 2 Pole Motor Contactor (required when motor wired for 208-230 volts) |
| Contact Carlin | NYC/BAR Nozzle Pressure Regulator Assembly Mounted On Burner         |
| Contact Carlin | Pump 2 Stage “J” Style   |
| Contact Carlin | Control Panel  |
| Contact Carlin | Control Sets   |

**AIR TUBE AND COMBUSTION HEAD ASSEMBLIES**

|        |              |
|--------|--------------|
| 22517S | 10" Standard |
| 22541S | 12" Standard |
| 22574S | 14" Standard |

**MOUNTING FLANGE AND/OR PEDESTAL**

|        |  |
|--------|--|
| 23259S | 4" Universal Flange/Gasket – Aluminum        |
| 23184S | 4" Flange/Gasket for pressurized application |
| 23382S | Pedestal                                     |

**NOZZLES**

|                |  |
|----------------|--|
| Contact Carlin | Consult Factory for Availability of Spray Patterns |
|----------------|--|

**STANDARD EQUIPMENT**

1. 41000 Carlin Solid State Ignitor
2. Two Stage Fuel Pump “B”
3. Motor 1/2hp, 3450 rpm, 115V, 60 Hz
4. Carlin Instant Opening Oil Valve
5. Electronic Time Delay, 4 Sec. (Not Required with 70200 Control)

COMMERCIAL OIL

| Part No.                                       | Description   |
|--|---|
| <b>701CRD OIL BURNER CHASSIS</b>               |   |
| 91686B04                                       | 701CRD Carlin 70200 Fully Adjustable Control, 41000 Ignitor, 2 Stage Pump |
| <b>BURNER MOUNTED OPTIONS – ADD-ONS</b>        |   |
| Contact Carlin                                 | NYC/BAR Nozzle Pressure Regulator Assembly Mounted On Burner              |
| Contact Carlin                                 | Pump 2 Stage “J” Style  |
| Contact Carlin                                 | Control Sets  |
| <b>AIR TUBE AND COMBUSTION HEAD ASSEMBLIES</b> |   |
| 22632S   | 10" Standard  |
| 22665S   | 12" Standard  |
| 22699S   | 14" Standard  |
| <b>MOUNTING FLANGE AND/OR PEDESTAL</b>         |   |
| 23259S   | 4" Universal Flange/Gasket – Aluminum                                     |
| 23184S   | 4" Flange/Gasket for pressurized application                              |
| 23382S   | Pedestal  |
| <b>NOZZLES</b>                                 |   |
| Contact Carlin                                 | 2 Required – Consult Factory for Availability of Spray Patterns           |

**STANDARD EQUIPMENT**

1. 41000 Carlin Solid State Ignitor
2. Two Stage Fuel Pump “B”
3. Motor 1/2hp, 3450 rpm, 115/208-230V, 60 Hz
4. Low and High Fire Oil Valves
5. Damper Motor with End Switch
6. Electronic Time Delay, 4 Sec. (Not Required with 70200 Control)
7. Motor Contactor – 2 Pole, 120V, 60HZ Coil

| Part No. | Description |
|----------|-------------|
|----------|-------------|

**702CRD OIL BURNER CHASSIS**

|          |   |
|----------|---|
| 91694B03 | 702CRD Carlin 40200 Control, 41000 Ignitor, 2 Stage Pump                  |
| 91694B04 | 702CRD Carlin 70200 Fully Adjustable Control, 41000 Ignitor, 2 Stage Pump |

**BURNER MOUNTED OPTIONS – ADD-ONS**

|                |  |
|----------------|--|
| Contact Carlin | NYC/BAR Nozzle Pressure Regulator Assembly Mounted On Burner |
| Contact Carlin | Control Panel  |
| Contact Carlin | Control Sets   |

**AIR TUBE AND COMBUSTION HEAD ASSEMBLIES**

|        |              |
|--------|--------------|
| 68650S | 10" Standard |
|--------|--------------|

**MOUNTING FLANGE AND/OR PEDESTAL**

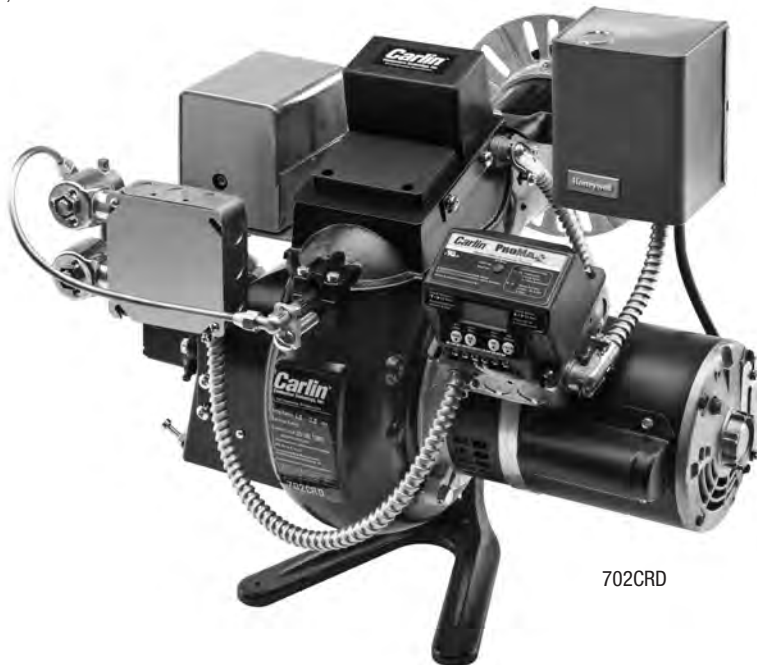
|        |  |
|--------|--|
| 23259S | 4" Universal Flange/Gasket – Aluminum        |
| 23184S | 4" Flange/Gasket for pressurized application |
| 23382S | Pedestal                                     |

**NOZZLES**

|                |  |
|----------------|--|
| Contact Carlin | Consult Factory for Availability of Spray Patterns |
|----------------|--|

**STANDARD EQUIPMENT**

1. 41000 Carlin Solid State Ignitor
2. Two Stage Two Step Fuel Pump "B"
3. Electronic Time Delay, 4 Sec. (Not Required with 70200 Control)
4. Motor 1/2hp, 3450 rpm, 115/208-230V, 60 Hz
5. Low Fire and Redundant Oil Valve
6. Damper Motor with End Switch
7. Motor Contactor – 2 Pole, 120V, 60HZ Coil



702CRD

| Part No. | Description |
|----------|-------------|
|----------|-------------|

**801CRD OIL BURNER CHASSIS**

|          |   |
|----------|---|
| 91710B03 | 801CRD Carlin 40200 Control, 41000 Ignitor, 2 Stage Pump                  |
| 91710B04 | 801CRD Carlin 70200 Fully Adjustable Control, 41000 Ignitor, 2 Stage Pump |

**BURNER MOUNTED OPTIONS – ADD-ONS**

|                |  |
|----------------|--|
| Contact Carlin | Motor, 3 Phase, 208-230/460V                                 |
| Contact Carlin | Pump 2 Stage “J” Style                                       |
| Contact Carlin | NYC/BAR Nozzle Pressure Regulator Assembly Mounted On Burner |
| Contact Carlin | Control Panel  |
| Contact Carlin | Control Sets   |

**AIR TUBE AND COMBUSTION HEAD ASSEMBLIES**

|        |              |
|--------|--------------|
| 22756S | 10" Standard |
| 22780S | 12" Standard |
| 22814S | 15" Standard |

UV Controls Require 12" or 15" Air Tube

UV Controls with Panel Mounted Require 15" Air Tube

**MOUNTING FLANGE AND/OR PEDESTAL**

|        |  |
|--------|--|
| 23283S | 5" Universal Flange/Gasket – Cast Aluminum   |
| 23218S | 5" Flange/Gasket for pressurized application |
| 59576S | 5" Flange required for UV Application        |
| 23382S | Pedestal                                     |

**NOZZLES**

|                |   |
|----------------|---|
| Contact Carlin | 2 Required – Consult Factory for Availability of Spray Patterns |
|----------------|---|

**STANDARD EQUIPMENT**

1. 41000 Carlin Solid State Ignitor
2. Two Stage Fuel Pump “B”
3. Electronic Time Delay, 4 Sec. (Not Required with 70200 Control)
4. Motor 3/4hp, 3450 rpm, 115/208-230V, 60 Hz, 1 Phase
5. Low and High Fire Oil Valves
6. Damper Motor with End Switch
7. Motor Contactor – 2 Pole, 120V, 60HZ Coil

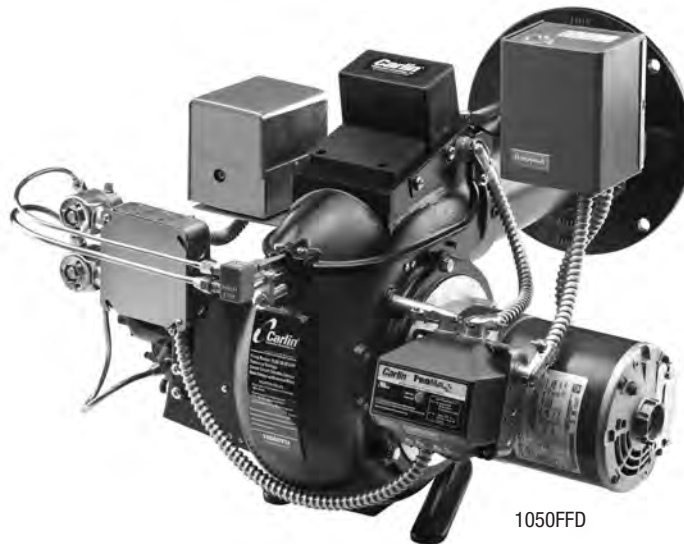
| Part No.                                | Description  |
|---|--|
| <b>1050FFD OIL BURNER CHASSIS</b>       |  |
| 91728B03                                | 1050FFD, Carlin 40200 Control, 41000 Ignitor, 1 Phase (up to 20 GPH) |
| 917281833J                              | 1050FFD Carlin 70200 Control, 41000 Ignitor (up to 20 GPH)           |
|   | 1050FFD Burner (Base Price Less Control Package for Above 20 GPH)    |
| <b>BURNER MOUNTED OPTIONS – ADD-ONS</b> |  |
| Contact Carlin                          | Motor, 3 Phase, 208-230/460V   |
| Contact Carlin                          | NYC/BAR Nozzle Pressure Regulator Assembly Mounted on Burner         |
| Contact Carlin                          | Code Requirement Options Available                                   |
| Contact Carlin                          | Control Panel  |
| Contact Carlin                          | Control Sets   |
| <b>NOZZLES</b>                          |  |
| Contact Carlin                          | 3 Required – Consult Factory for Availability of Spray Patterns      |

**STANDARD EQUIPMENT**

1. Motor 1hp, 1 Phase, 115/208-230V
2. Motor Contactor – 2 pole, 120V, 60HZ Coil
3. 41000 Carlin Solid State Ignitor
4. Two Stage Fuel Pump “J”
5. Low and High Fire Oil Valves
6. Air Tube/Combustion Head, Pedestal, Flange and Spacer
7. Damper Motor with End Switch
8. Electronic Time Delay, 4 Sec. (Not Required with 70200 Control)

*Note: When ordering you must specify the following:*

1. Select “Control Option” Page 29.
2. Specify “Spacer Length” – 4”, 5”, 6”, 7”, or 8” (4” or 5” spacer length required for Honeywell ultra-violet self-checking controls.)



1050FFD

| Part No.                                | Description   |
|---|---|
| <b>1150FFD OIL BURNER CHASSIS</b>       |   |
|   | 1150FFD, Add Control Set  |
| <b>BURNER MOUNTED OPTIONS – ADD-ONS</b> |   |
| Contact Carlin                          | Motor, 3 Phase, 208-230/460V                                    |
| Contact Carlin                          | NYC/BAR Nozzle Pressure Regulator Assembly Mounted on Burner    |
| Contact Carlin                          | Code Requirement Options Available                              |
| Contact Carlin                          | Control Panel   |
| Contact Carlin                          | Control Sets  |
| <b>NOZZLES</b>                          |   |
| Contact Carlin                          | 3 Required – Consult Factory for Availability of Spray Patterns |

**STANDARD EQUIPMENT**

1. Motor 1-1/2hp, 1 Phase, 115/208-230V
2. Motor Contactor – 2 pole, 120V, 60HZ Coil
3. 41000 Carlin Solid State Ignitor
4. Two Stage Fuel Pump “J”
5. Low and High Fire Oil Valves
6. Air Tube/Combustion Head, Pedestal, Flange and Spacer
7. Damper Motor with End Switch
8. Air Flow Proven Switch
9. Duplex Switch Package

*Note: When ordering you must specify the following:*

1. Select “Control Option” Page 29.
2. Specify “Spacer Length” – 4”, 5”, 6”, 7”, or 8” (4” or 5” spacer length required for Honeywell ultra-violet self-checking controls.)

**201CRD OIL BURNERS**

| Part No.                 | Description  |
|--------------------------|--|
| <b>201CRD OIL BURNER</b> |  |
| 916290033J               | Standard Equipment<br>1. Model 70200 Carlin Fully Adjustable Control with Alarm & Blocked Vent Contacts<br>2. Model 41000 Carlin Solid State Ignitor<br>3. Two stage pump<br>4. Model 98630S Carlin 1/4 HP, 120 vac, 60 Hz, 48N Frame<br>5. Instant Opening Oil Valve    |
| 91629B02                 | Standard Equipment<br>1. Model 70200 Carlin Fully Adjustable Control with Alarm & Blocked Vent Contacts<br>2. Model 41000 Carlin Solid State Ignitor<br>3. Single-stage pump<br>4. Model 98630S Carlin 1/4 HP, 120 vac, 60 Hz, 48N Frame<br>5. Instant Opening Oil Valve |

When ordering, please specify **Chassis** part number, **Air Tube/Combustion Head** part number and **Nozzle Type** (if needed).

| Appliance Model                            | Chassis Part No. | Air Tube/Combustion Head Part No. | Nozzle Type      | Pump PSI | Head Position | Air Shutter |
|--|------------------|-----------------------------------|------------------|----------|---------------|-------------|
| <b>PB HEAT – MODEL SC/SCT</b>              |                  |                                   |                  |          |               |             |
| SC/SCT-05                                  | 91629B02         | 48835KIT                          | 2.50 60B Delavan | 140      | 1/4           | 80%         |
| SC/SCT-06                                  | 91629B02         | 48835KIT                          | 3.00 60B Delavan | 140      | 1/2           | 75%         |
| SC/SCT-07                                  | 91629B02         | 48835KIT                          | 3.25 45SS Hago   | 150      | 5/8           | 80%         |
| SC/SCT-08                                  | 91629B02         | 48835KIT                          | 3.75 45SS Hago   | 140      | 5/8           | 100%        |
| <b>SMITH CAST IRON BOILERS – MODEL 19A</b> |                  |                                   |                  |          |               |             |
| 19A-03                                     | 91629B02         | 98307KIT                          | 2.00 70B Delavan | 150      | 7/16          | 25%         |
| <b>WEIL MCLAIN – MODEL 78</b>              |                  |                                   |                  |          |               |             |
| 478  | 916290033J       | 48736KIT                          | 2.75 60P Hago    | 150      | 7/16          | 60%         |
| <b>WEIL MCLAIN – MODEL 80</b>              |                  |                                   |                  |          |               |             |
| 480  | 916290033J       | 48736KIT                          | 2.75 60P Hago    | 150      | 3/8           | 60%         |



201CRD

COMMERCIAL OIL



**301CRD OIL BURNERS**

| Part No.                 | Description  |
|--------------------------|--|
| <b>301CRD OIL BURNER</b> |  |
| 91652B02                 | Standard Equipment<br>1. Model 70200 Carlin Fully Adjustable Control with Alarm & Blocked Vent Contacts<br>2. Model 41000 Carlin Solid State Ignitor<br>3. Single-stage pump<br>4. Model 98630S Carlin 1/4 HP, 120 vac, 60 Hz, 48N Frame<br>5. Instant Opening Oil Valve |
| 9165200B02B              | Standard Equipment<br>1. Model 70200 Carlin Fully Adjustable Control with Alarm & Blocked Vent Contacts<br>2. Model 41000 Carlin Solid State Ignitor<br>3. B pump<br>4. Model 98630S Carlin 1/4 HP, 120 vac, 60 Hz, 48N Frame<br>5. Instant Opening Oil Valve            |

When ordering, please specify **Chassis** part number, **Air Tube/Combustion Head** part number and **Nozzle Type** (if needed).

| Appliance Model                             | Chassis Part No. | Air Tube/Combustion Head Part No. | Nozzle Type        | Pump PSI | Head Position | Air Shutter |
|---|------------------|-----------------------------------|--------------------|----------|---------------|-------------|
| <b>BURNHAM CORPORATION – V9 SERIES</b>      |                  |                                   |                    |          |               |             |
| V904  | 9165200B02B      | 91991KIT                          | 3.00 80SS Hago     | 150      | 3/16          | 60%         |
| V905  | 9165200B02B      | 91991KIT                          | 3.75 80SS Hago     | 150      | 5/16          | 100%        |
| V906  | 9165200B02B      | 91918KIT                          | 4.50 60H Hago      | 150      | 1/4           | 100%        |
| <b>BURNHAM CORPORATION – V9A SERIES</b>     |                  |                                   |                    |          |               |             |
| V903A                                       | 9165200B02B      | 98147KIT                          | 2.50 80B Delavan   | 150      | 1/4           | 60%         |
| V904A                                       | 9165200B02B      | 98147KIT                          | 3.50 80SS Hago     | 150      | 1/2           | 100%        |
| V905A                                       | 9165200B02B      | 98148KIT                          | 4.50 80SS Hago     | 150      | 3/4           | 100%        |
| <b>PB HEAT – SC/SCT SERIES</b>              |                  |                                   |                    |          |               |             |
| SC/SCT-9                                    | 9165200B02B      | 49049KIT                          | 4.00 45B Delavan   | 150      | 7/8           | 100%        |
| SC/SCT-10                                   | 9165200B02B      | 49049KIT                          | 4.50 45B Delavan   | 150      | 3/4           | 100%        |
| <b>PB HEAT – LC SERIES</b>                  |                  |                                   |                    |          |               |             |
| LC-04                                       | 91652B02         | 97507KIT                          | 4.00 60SS Hago     | 140      | 3/8           | 75%         |
| LC-05R                                      | 91652B02         | 97507KIT                          | 4.50 60SS Hago     | 150      | 7/16          | 80%         |
| <b>SMITH CAST IRON BOILERS – 19 SERIES</b>  |                  |                                   |                    |          |               |             |
| 19-4  | 91652B02         | 90787KIT                          | 2.75 80SS Hago     | 150      | 5/16          | 50%         |
| 19-5  | 91652B02         | 90787KIT                          | 3.50 80SS Hago     | 150      | 7/16          | 75%         |
| 19-6  | 91652B02         | 90787KIT                          | 4.00 80SS Hago     | 150      | 3/4           | 100%        |
| <b>SMITH CAST IRON BOILERS – 19A SERIES</b> |                  |                                   |                    |          |               |             |
| 19A-04                                      | 91652B02         | 90787KIT                          | 2.75 80SS Hago     | 150      | 5/16          | 50%         |
| 19A-05                                      | 91652B02         | 90787KIT                          | 4.00 60PLP Monarch | 150      | 13/16         | 100%        |
| <b>WEIL MCLAIN – MODEL 78</b>               |                  |                                   |                    |          |               |             |
| 578   | 9165200B02B      | 96792KIT                          | 3.75 60P Hago      | 150      | 7/16          | 50%         |
| 678   | 9165200B02B      | 96792KIT                          | 4.50 60P Hago      | 150      | 1/2           | 100%        |
| <b>WEIL MCLAIN – MODEL 80</b>               |                  |                                   |                    |          |               |             |
| 580   | 9165200B02B      | 96792KIT                          | 3.75 60P Hago      | 150      | 7/16          | 50%         |
| 680   | 9165200B02B      | 96792KIT                          | 4.50 60P Hago      | 150      | 1/2           | 100%        |

COMMERCIAL OIL

**702CRD OIL BURNERS**

| Part No.                 | Description  |
|--------------------------|--|
| <b>702CRD OIL BURNER</b> |  |
| 91694B04                 | Standard Equipment<br>1. Model 70200 Carlin Fully Adjustable Control with Alarm & Blocked Vent Contacts<br>2. Model 41000 Carlin Solid State Ignitor<br>3. Two-stage two step fuel pump "B"<br>4. Motor 1/2 HP, 3450 RPM, 115/208-230V, 60 Hz<br>5. Low fire and redundant oil valve<br>6. Damper motor with end switch<br>7. Motor contactor – 2 pole, 120V, 60 Hz Coil |

When ordering, please specify **Chassis** part number, **Air Tube/Combustion Head** part number and **Nozzle Type** (if needed).

| Appliance Model                            | Chassis Part No. | Air Tube/Combustion Head Part No. | Nozzle Type        | Pump PSI | Head Position | Air Shutter |
|--|------------------|-----------------------------------|--------------------|----------|---------------|-------------|
| <b>BURNHAM CORPORATION – V9 SERIES</b>     |                  |                                   |                    |          |               |             |
| V907                                       | 91694B04         | 49304KIT                          | 4.00 70B Delavan   | 100/300  | 3/16          | 1/4         |
| V908                                       | 91694B04         | 49304KIT                          | 4.50 70B Delavan   | 100/300  | 1/4           | 1/4         |
| V909                                       | 91694B04         | 49304KIT                          | 5.00 70B Delavan   | 100/300  | 3/8           | 3/8         |
| V910                                       | 91694B04         | 49304KIT                          | 6.00 70B Delavan   | 100/300  | 1/2           | 7/16        |
| V911                                       | 91694B04         | 49304KIT                          | 6.50 60PLP Monarch | 100/300  | 11/16         | 1/2         |
| <b>BURNHAM CORPORATION – V9A SERIES</b>    |                  |                                   |                    |          |               |             |
| V906A                                      | 91694B04         | 98149KIT                          | 4.00 60P Hago      | 100/300  | 7/32          | 1/2         |
| V907A                                      | 91694B04         | 98149KIT                          | 5.00 60P Hago      | 100/300  | 1/2           | 1/2         |
| V908A                                      | 91694B04         | 98149KIT                          | 5.50 60P Hago      | 100/300  | 3/4           | 1/2         |
| <b>BURNHAM CORPORATION – V1 SERIES</b>     |                  |                                   |                    |          |               |             |
| V1105                                      | 91694B04         | 97979KIT                          | 4.50 60B Delavan   | 100/300  | 9/16          | 1/2         |
| V1106                                      | 91694B04         | 97979KIT                          | 5.50 60B Delavan   | 100/300  | 9/16          | 1/2         |
| <b>PB HEAT – LC/LCE SERIES</b>             |                  |                                   |                    |          |               |             |
| LC-05                                      | 91694B04         | 97500KIT                          | 3.50 45P Hago      | 100/300  | 3/16          | 5/16        |
| LC-06                                      | 91694B04         | 97500KIT                          | 4.50 45P Hago      | 100/280  | 3/8           | 1/2         |
| LC-07                                      | 91694B04         | 97500KIT                          | 5.00 45P Hago      | 100/300  | 1/2           | 1/2         |
| LC-08                                      | 91694B04         | 97500KIT                          | 6.00 45P Hago      | 100/280  | 1             | 9/16        |
| <b>PB HEAT – TC SERIES</b>                 |                  |                                   |                    |          |               |             |
| TC-04                                      | 91694B04         | 93377KIT                          | 4.50 45P Hago      | 100/300  | 3/16          | 3/8         |
| TC-05                                      | 91694B04         | 93377KIT                          | 6.00 45P Hago      | 100/300  | 7/16          | 7/16        |
| <b>SMITH CAST-IRON BOILERS – 18 SERIES</b> |                  |                                   |                    |          |               |             |
| 18-9                                       | 91694B04         | 49312KIT                          | 5.00 45SS Hago     | 100/300  | 7/16          | 100%        |
| 18-10                                      | 91694B04         | 49312KIT                          | 5.50 45SS Hago     | 100/300  | 1/4           | 65%         |
| 18-11                                      | 91694B04         | 49312KIT                          | 6.00 45SS Hago     | 100/300  | 5/16          | 75%         |
| 18-12                                      | 91694B04         | 49312KIT                          | 6.50 45SS Hago     | 100/300  | 3/8           | 80%         |

**702CRD OIL BURNERS – continued**

| Appliance Model                               | Chassis Part No. | Air Tube/ Combustion Head Part No. | Nozzle Type        | Pump PSI | Head Position | Air Shutter |
|---|------------------|------------------------------------|--------------------|----------|---------------|-------------|
| <b>SMITH CAST-IRON BOILERS – 19 SERIES</b>    |                  |                                    |                    |          |               |             |
| 19-7  | 91694B04         | 49312KIT                           | 3.75 60P Hago      | 100/300  | 3/16          | 3/16        |
| 19-8  | 91694B04         | 49312KIT                           | 4.00 60P Hago      | 100/300  | 1/4           | 1/4         |
| 19-9  | 91694B04         | 49312KIT                           | 4.50 60P Hago      | 100/300  | 7/16          | 3/8         |
| 19-10   | 91694B04         | 49312KIT                           | 5.00 60P Hago      | 100/300  | 1/2           | 7/16        |
| 19-11   | 91694B04         | 49312KIT                           | 6.00 60P Hago      | 100/300  | 9/16          | 1/2         |
| <b>SMITH CAST-IRON BOILERS – 19A SERIES</b>   |                  |                                    |                    |          |               |             |
| 19A-06  | 91694B04         | 49312KIT                           | 3.75 60P Hago      | 100/300  | 1/16          | 5/16        |
| 19A-07  | 91694B04         | 49312KIT                           | 4.50 60P Hago      | 100/300  | 3/16          | 1/2         |
| 19A-08  | 91694B04         | 49312KIT                           | 5.00 60P Hago      | 100/300  | 3/8           | 7/16        |
| 19A-09  | 91694B04         | 49312KIT                           | 6.00 60P Hago      | 100/300  | 1             | 5/8         |
| <b>SMITH CAST-IRON BOILERS – 28A SERIES</b>   |                  |                                    |                    |          |               |             |
| 28A-4   | 91694B04         | 93377KIT                           | 4.50 45P Hago      | 100/300  | 3/16          | 3/8         |
| 28A-5   | 91694B04         | 93377KIT                           | 6.00 45P Hago      | 100/300  | 7/16          | 7/16        |
| <b>SMITH CAST-IRON BOILERS – 3500A SERIES</b> |                  |                                    |                    |          |               |             |
| 3500A-6                                       | 91694B04         | 93377KIT                           | 6.00 45P Hago      | 100/300  | 7/16          | 7/16        |
| 3500A-7                                       | 91694B04         | 93377KIT                           | 7.50 45P Hago      | 100/300  | 1 1/4         | 1/2         |
| <b>WEIL MCLAIN – MODEL 78</b>                 |                  |                                    |                    |          |               |             |
| 778   | 91694B04         | 49304KIT                           | 3.75 45P Hago      | 100/300  | 1/8           | 5/16        |
| 878   | 91694B04         | 49304KIT                           | 4.50 45P Hago      | 100/300  | 1/4           | 5/16        |
| 978   | 91694B04         | 49304KIT                           | 5.00 45P Hago      | 100/300  | 3/8           | 3/8         |
| 1078  | 91694B04         | 49304KIT                           | 5.50 45P Hago      | 100/300  | 9/16          | 3/8         |
| 1178  | 91694B04         | 49304KIT                           | 6.00 45P Hago      | 100/300  | 3/4           | 3/8         |
| <b>WEIL MCLAIN – MODEL 80</b>                 |                  |                                    |                    |          |               |             |
| 780   | 91694B04         | 49304KIT                           | 3.75 45P Hago      | 100/300  | 1/8           | 7/16        |
| 880   | 91694B04         | 49304KIT                           | 4.50 45P Hago      | 100/300  | 1/4           | 5/16        |
| 980   | 91694B04         | 49304KIT                           | 5.00 45P Hago      | 100/300  | 3/8           | 3/8         |
| 1080  | 91694B04         | 49304KIT                           | 5.50 45P Hago      | 100/300  | 9/16          | 3/8         |
| 1180  | 91694B04         | 49304KIT                           | 6.00 45P Hago      | 100/300  | 3/4           | 3/8         |
| <b>WEIL MCLAIN – MODEL 88</b>                 |                  |                                    |                    |          |               |             |
| 488-R2  | 91694B04         | 49304KIT                           | 4.00 60PLP Monarch | 100/300  | 1/8           | 1/8         |
| 488   | 91694B04         | 49304KIT                           | 4.00 60PLP Monarch | 100/300  | 1/8           | 1/8         |
| 588   | 91694B04         | 49304KIT                           | 5.50 70P Hago      | 100/300  | 1/4           | 1/4         |



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■ Items that are shaded are considered stock items and will ship in 3-5 days.

COMMERCIAL OIL

**801CRD OIL BURNERS**

| Part No.                 | Description  |
|--------------------------|--|
| <b>801CRD OIL BURNER</b> |  |
| 91710B04                 | Standard Equipment<br>1. Model 70200 Carlin Fully Adjustable Control with Alarm & Blocked Vent Contacts<br>2. Model 41000 Carlin Solid State Ignitor<br>3. Two-stage fuel pump "B"<br>4. Motor 3/4 HP, 3450 RPM, 115/208-230V, 60 Hz, 1 phase<br>5. Low and high fire oil valves<br>6. Damper motor with end switch<br>7. Motor contactor – 2 pole, 120V, 60 Hz Coil |

When ordering, please specify **Chassis** part number, **Air Tube/Combustion Head** part number and **Nozzle Type** (if needed).

| Appliance Model                         | Chassis Part No. | Air Tube/Combustion Head Part No. | Nozzle Type        | Pump PSI | Head Position | Air Shutter |
|---|------------------|-----------------------------------|--------------------|----------|---------------|-------------|
| <b>BURNHAM CORPORATION – PF5 SERIES</b> |                  |                                   |                    |          |               |             |
| PF-509                                  | 91710B04         | 49460KIT                          | L.F. 5.50 45H Hago | 150      | 1/8           | 100%        |
|   |                  |                                   | H.F. 5.00 45H Hago |          |               |             |
| PF-510                                  | 91710B04         | 49460KIT                          | L.F. 6.00 45H Hago | 150      | 5/16          | 100%        |
|   |                  |                                   | H.F. 5.50 45H Hago |          |               |             |
| PF-511                                  | 91710B04         | 49460KIT                          | (2) 6.50 45H Hago  | 150      | 7/16          | 100%        |
| PF-512                                  | 91710B04         | 49460KIT                          | L.F. 6.50 45H Hago | 150      | 3/4           | 100%        |
|   |                  |                                   | H.F. 7.50 45H Hago |          |               |             |
| PF-513                                  | 91710B04         | 49460KIT                          | L.F. 6.50 45H Hago | 150      | 1             | 100%        |
|   |                  |                                   | H.F. 8.50 45H Hago |          |               |             |
| PFR-509                                 | 91710B04         | 49460KIT                          | (2) 5.00 45H Hago  | 150      | 1/8           | 100%        |
| PFR-510                                 | 91710B04         | 49460KIT                          | (2) 5.50 45H Hago  | 150      | 5/16          | 100%        |
| PFR-511                                 | 91710B04         | 49460KIT                          | L.F. 6.00 45H Hago | 150      | 7/16          | 100%        |
|   |                  |                                   | H.F. 6.50 45H Hago |          |               |             |
| PFR-512                                 | 91710B04         | 49460KIT                          | L.F. 6.50 45H Hago | 150      | 3/4           | 100%        |
|   |                  |                                   | H.F. 7.00 45H Hago |          |               |             |
| PFR-513                                 | 91710B04         | 49460KIT                          | L.F. 6.50 45H Hago | 150      | 1             | 100%        |
|   |                  |                                   | H.F. 8.50 45H Hago |          |               |             |
| <b>BURNHAM CORPORATION – V9 SERIES</b>  |                  |                                   |                    |          |               |             |
| V912                                    | 91710B04         | 49445KIT                          | L.F. 5.50 45H Hago | 150      | 1/2           | 1/8         |
|   |                  |                                   | H.F. 5.00 45H Hago |          |               |             |

**801CRD OIL BURNERS – continued**

| Appliance Model                         | Chassis Part No. | Air Tube/<br>Combustion<br>Head Part No. | Nozzle Type        | Pump<br>PSI | Head<br>Position | Air<br>Shutter |
|---|------------------|--|--------------------|-------------|------------------|----------------|
| <b>BURNHAM CORPORATION – V9A SERIES</b> |                  |  |                    |             |                  |                |
| V909A                                   | 91710B04         | 98150KIT                                 | L.F. 5.50 45H Hago | 150         | 1/4              | 1/4            |
|   |                  |  | H.F. 4.00 45H Hago |             |                  |                |
| V910A                                   | 91710B04         | 98150KIT                                 | L.F. 6.50 45H Hago | 150         | 9/16             | 1/4            |
|   |                  |  | H.F. 4.50 45H Hago |             |                  |                |
| V911A                                   | 91710B04         | 98150KIT                                 | (2) 6.00 45H Hago  | 150         | 5/8              | 3/8            |
| V912A                                   | 91710B04         | 98150KIT                                 | L.F. 7.00 45H Hago | 150         | 3/4              | 1/2            |
|   |                  |  | H.F. 6.50 45H Hago |             |                  |                |
| <b>BURNHAM CORPORATION – V1 SERIES</b>  |                  |  |                    |             |                  |                |
| V1107                                   | 91710B04         | 97980KIT                                 | L.F. 5.50 45H Hago | 150         | 1/8              | 1/2            |
|   |                  |  | H.F. 4.50 45H Hago |             |                  |                |
| V1108                                   | 91710B04         | 97980KIT                                 | (2) 5.50 45H Hago  | 150         | 1/2              | 1/2            |
| V1109                                   | 91710B04         | 97980KIT                                 | (2) 6.00 45H Hago  | 150         | 3/4              | 1/2            |
| <b>PB HEAT – LC/LCE SERIES</b>          |                  |  |                    |             |                  |                |
| LC-09                                   | 91710B04         | 49460KIT                                 | L.F. 5.50 45H Hago | 150         | 1/4              | 0              |
|   |                  |  | H.F. 4.00 45H Hago |             |                  |                |
| LC-10                                   | 91710B04         | 49460KIT                                 | L.F. 6.00 45H Hago | 150         | 1/2              | 1/4            |
|   |                  |  | H.F. 4.50 45H Hago |             |                  |                |
| LC-11                                   | 91710B04         | 49460KIT                                 | L.F. 6.00 45H Hago | 150         | 3/4              | 1/8            |
|   |                  |  | H.F. 4.50 45H Hago |             |                  |                |
| LC-12                                   | 91710B04         | 49460KIT                                 | L.F. 6.50 45H Hago | 150         | 1                | 1/4            |
|   |                  |  | H.F. 6.00 45H Hago |             |                  |                |
| LC-13                                   | 91710B04         | 49460KIT                                 | L.F. 6.50 45H Hago | 150         | 11/16            | 1/2            |
|   |                  |  | H.F. 7.00 45H Hago |             |                  |                |
| LC-14                                   | 91710B04         | 49460KIT                                 | L.F. 6.50 45H Hago | 150         | 1 1/8            | 1/2            |
|   |                  |  | H.F. 8.50 45H Hago |             |                  |                |
| <b>PB HEAT – 7FDA SERIES</b>            |                  |  |                    |             |                  |                |
| 7FDA-11                                 | 91710B04         | 49460KIT                                 | L.F. 5.50 45H Hago | 150         | 1/8              | 1/4            |
|   |                  |  | H.F. 4.50 45H Hago |             |                  |                |
| 7FDA-12                                 | 91710B04         | 49460KIT                                 | L.F. 5.50 45H Hago | 150         | 3/16             | 1/4            |
|   |                  |  | H.F. 5.00 45H Hago |             |                  |                |
| 7FDA-13                                 | 91710B04         | 49460KIT                                 | L.F. 6.00 45H Hago | 150         | 5/16             | 3/8            |
|   |                  |  | H.F. 5.50 45H Hago |             |                  |                |
| 7FDA-14                                 | 91710B04         | 49460KIT                                 | L.F. 6.00 45H Hago | 150         | 7/16             | 3/8            |
|   |                  |  | H.F. 6.50 45H Hago |             |                  |                |
| 7FDA-15                                 | 91710B04         | 49460KIT                                 | L.F. 6.50 45H Hago | 150         | 5/8              | 1/2            |
|   |                  |  | H.F. 7.00 45H Hago |             |                  |                |
| 7FDA-16                                 | 91710B04         | 49460KIT                                 | L.F. 6.50 45H Hago | 150         | 7/8              | 1/2            |
|   |                  |  | H.F. 8.00 45H Hago |             |                  |                |
| 7FDA-17                                 | 91710B04         | 49460KIT                                 | L.F. 6.50 45H Hago | 150         | 1 1/8            | 1/2            |
|   |                  |  | H.F. 8.50 45H Hago |             |                  |                |

**801CRD OIL BURNERS – continued**

| Appliance Model                              | Chassis Part No. | Air Tube/ Combustion Head Part No. | Nozzle Type         | Pump PSI | Head Position | Air Shutter |
|--|------------------|------------------------------------|---------------------|----------|---------------|-------------|
| <b>PB HEAT –TC SERIES</b>                    |                  |                                    |                     |          |               |             |
| TC-06  | 91710B04         | 49429KIT                           | L.F. 5.50 45H Hago  | 150      | 3/16          | 1/4         |
|  |                  |                                    | H.F. 4.50 45H Hago  |          |               |             |
| TC-07  | 91710B04         | 49429KIT                           | (2) 6.00 45H Hago   | 150      | 7/16          | 3/8         |
| TC-08  | 91710B04         | 49429KIT                           | L.F. 6.50 45H Hago  | 150      | 9/16          | 5/8         |
|  |                  |                                    | H.F. 7.50 45H Hago  |          |               |             |
| <b>SMITH CAST IRON BOILERS – 19 SERIES</b>   |                  |                                    |                     |          |               |             |
| 19-12  | 91710B04         | 91827KIT                           | L.F. 5.50 45PLP Mon | 150      | 1/8           | 1/4         |
|  |                  |                                    | H.F. 4.00 45PLP Mon |          |               |             |
| <b>SMITH CAST IRON BOILERS – 19A SERIES</b>  |                  |                                    |                     |          |               |             |
| 19A-10                                       | 91710B04         | 91827KIT                           | L.F. 5.50 45H Hago  | 150      | 5/8           | 1/4         |
|  |                  |                                    | H.F. 4.00 45H Hago  |          |               |             |
| 19A-11                                       | 91710B04         | 91827KIT                           | (2) 5.50 45H Hago   | 150      | 5/8           | 3/8         |
| 19A-12                                       | 91710B04         | 91827KIT                           | L.F. 6.00 45H Hago  | 150      | 7/8           | 7/16        |
|  |                  |                                    | H.F. 6.00 45H Hago  |          |               |             |
| <b>SMITH CAST IRON BOILERS – 28A SERIES</b>  |                  |                                    |                     |          |               |             |
| 28A-6  | 91710B04         | 49429KIT                           | L.F. 5.50 45H Hago  | 150      | 3/16          | 1/4         |
|  |                  |                                    | H.F. 4.50 45H Hago  |          |               |             |
| 28A-7  | 91710B04         | 49429KIT                           | (2) 6.00 45H Hago   | 150      | 3/4           | 1/2         |
| 28A-8  | 91710B04         | 49429KIT                           | L.F. 6.50 45H Hago  | 150      | 3/4           | 1/2         |
|  |                  |                                    | H.F. 7.50 45H Hago  |          |               |             |
| <b>SMITH CAST IRON BOILERS – 3500 SERIES</b> |                  |                                    |                     |          |               |             |
| 3500A-8                                      | 91710B04         | 49429KIT                           | L.F. 6.00 45H Hago  | 150      | 7/16          | 3/8         |
|  |                  |                                    | H.F. 6.50 45H Hago  |          |               |             |
| 3500A-9                                      | 91710B04         | 49429KIT                           | L.F. 7.00 45H Hago  | 150      | 7/8           | 3/8         |
|  |                  |                                    | H.F. 8.50 45H Hago  |          |               |             |
| <b>WEIL MCLAIN – MODEL 78</b>                |                  |                                    |                     |          |               |             |
| 1278   | 91710B04         | 49445KIT                           | L.F. 5.50 45P Hago  | 150      | 1/4           | 1/8         |
|  |                  |                                    | H.F. 4.00 45P Hago  |          |               |             |
| <b>WEIL MCLAIN – MODEL 80</b>                |                  |                                    |                     |          |               |             |
| 1280   | 91710B04         | 49445KIT                           | L.F. 5.50 45P Hago  | 150      | 1/4           | 1/8         |
|  |                  |                                    | H.F. 4.00 45P Hago  |          |               |             |
| <b>WEIL MCLAIN – MODEL 88</b>                |                  |                                    |                     |          |               |             |
| 688  | 91710B04         | 49445KIT                           | L.F. 5.50 45H Hago  | 150      | 7/16          | 1/4         |
|  |                  |                                    | H.F. 4.50 45H Hago  |          |               |             |
| 788  | 91710B04         | 49445KIT                           | L.F. 6.00 45H Hago  | 150      | 3/4           | 5/16        |
|  |                  |                                    | H.F. 5.50 45H Hago  |          |               |             |
| 888  | 91710B04         | 49445KIT                           | L.F. 6.50 45H Hago  | 150      | 1             | 3/8         |
|  |                  |                                    | H.F. 7.00 45H Hago  |          |               |             |

To substitute an optional control package for the standard control included in the chassis only price (Models 201CRD thru 801CRD) or the burner price (Models 1050FFD and 1150FFD), select optional control package to be substituted.

**Note:** Air flow switch, low oil pressure switch, and safety oil valve required for IRI. Air flow switch and safety oil valve required for FM. 6020002 control does not meet IRI or FM requirements.

| Optional Control Package Substituted is:  |                   |   |
|---|-------------------|---|
| Control Set Part Number                   | Relay Part Number | Notes   |
| <b>FIREYE ULTRA-VIOLET SCANNERS</b>       |                   |   |
| EMX24UV                                   | MP230             | <b>Fireye Control</b> (notes 1, 5, 6) – Non-Recycling, 4 Sec. TFI, 4 Sec. Flame Stabilization Period, 4 Sec. FFRT, 30 Sec. Pre-Purge, MP230 Programmer, 61-3060 Sub-Base, MAUV1 Amplifier, UV1A Scanner.  |
| <b>HONEYWELL ULTRA-VIOLET SCANNERS</b>    |                   |   |
| EMX15UV                                   | RM7897C           | <b>1000 Honeywell Control</b> (notes 1, 5, 6) – Field Selectable Recycling, 10 Sec. TFI, 3 Sec. FFRT, 30 Sec. Pre-Purge, 15 Sec Post-Purge, R7849A 1023 UV Amplifier, Q7800B 1003 Sub-Base, C7027A 1023 Scanner, ST7800A 1039 Timing Card.  |
| EMX39UV                                   | RM7897A           | <b>1002 Honeywell Control</b> (notes 1, 5, 6) – Field Selectable Recycling/Non-Recycling, 10 Sec. TFI. Field Selectable 0.8/3.0 Sec. FFRT, 30 Sec. Pre-Purge, Q7800B 1003 Sub-Base, C7027A 1023 UV Scanner, R7849A 1023 UV Amplifier, ST7800A 1039 Timing Card.                           |
| EMX43UV                                   | RM7840L           | <b>1075 Honeywell Control</b> (notes 3, 4, 6) – Field Selectable Recycling, 10 Sec. TFI, Field Selectable 3.0 FFRT, 30 Sec. Pre-Purge, 15 Sec. Post-Purge, Q7800B 1003 Sub-Base, C7027A 1023 UV Scanner, R7849A 1023 UV Amplifier, ST7800A 1039 Timing Card. Over 20 GPH Control Package. |
| EMX43UVSC                                 | RM7840L           | <b>1075 Honeywell Control</b> (notes 2, 3, 4, 6) – Field Selectable Recycling, 10 Sec. TFI, Field Selectable 3.0 FFRT, 30 Sec. Pre-Purge, Q7800B 1003 Sub-Base, C7027A 1023 UV Scanner, R7849B 1021 UV Amplifier SC, ST7800A 1039 Timing Card. Over 20 GPH Control Package.               |
| <b>HONEYWELL INFRA-RED SCANNERS</b>       |                   |   |
| EMX45UVSC                                 | RM7840L           | <b>1075 Honeywell Control</b> (notes 2, 3, 4, 6) – Field Selectable Recycling, 10 Sec. TFI, Field Selectable 3.0 FFRT, 30 Sec. Pre-Purge, 15 Sec. Post-Purge, Q7800B 1003 Sub-Base, C7915A1010 IR Scanner, R7852B1009 Amplifier (Self Check), ST7800A 1039 Timing Card. Over 20 GPH.      |
| <b>VISUAL DISPLAY</b>                     |                   |   |
| Fireye                                    | 97271             | ED 510 Display Module   |
| Honeywell                                 | 97719             | RM 7800 Display Module  |
| <b>CAD CELL CONTROL SETS (SEE NOTE 1)</b> |                   |   |
| 40E                                       | 40200-02          | <b>Carlin Interrupted Duty Control</b> – Recycling – 15 Sec. TFI, 10 Sec. Flame Stabilization Period. CAD Cell Flame Detector.  |
| 50E                                       | 50200-02          | <b>Carlin Interrupted Duty Microprocessor</b> – Recycling – 15 Sec. TFI, CAD Cell Flame Detector, Alarm Contacts.   |
| 70E                                       | 70200             | <b>Carlin Fully Adjustable Control</b> – with Alarm and Blocked Vent Contacts.  |

**NOTES**

1. All control packages meet CSD-1, Mass Code, UL-296, and NYC-BAR codes for under 20 GPH.
2. Meets Mass Code over 20 GPH where noted.
3. Meets UL-296 over 20 GPH where noted.
4. Meets NYC-BAR Code over 20 GPH and under 30 GPH where noted.
5. Can be installed on all units under 20 GPH.
6. Selected units meet IRI requirements with additional sensors installed. In addition to a non-recycling control, IRI requires the installation of a low oil pressure switch and an airflow switch.
7. Air flow switch, low oil pressure switch, and safety oil valve required for IRI. Air flow switch and safety oil valve required for FM. 70200 control does not meet IRI or FM requirements.

| Part No. | Description |
|----------|-------------|
|----------|-------------|

**CONTROL PANELS**

|                |   |
|----------------|---|
| Consult Carlin | Basic Control Panel – 16"W x 14"H x 7"D |
|----------------|---|

- Burner-mounted panels are available on models: 201CRD, 301CRD, 601CRD, 701CRD, 702CRD, 801CRD, 1050FFD and 1150FFD burners.
- Remote mountings are available for all Residential and Commercial burner models.
- All panel options are not compatible and all possible specification options are not covered. Each panel must be submitted to Carlin Engineering for final approvals and the exact price will be sent to the customer in the acknowledgment.

**STANDARD FEATURES**

- Terminal Block with required terminal modules (up to 25 terminal modules)
- Terminal Block Marking Strip
- Service Switch
- Low Fire Switch (on 701CRD and larger only)
- Circuit Breaker with reset (on control circuit)
- Wiring Harness to accommodate specific control
- Wiring Diagram
- Removable Hinged Door
- Hinged Top for easy access

**NOTE:** Air flow switch, low oil pressure switch, and safety oil valve required for IRI. Air flow switch and safety oil valve required for FM. 6020002 control does not meet IRI or FM requirements.

| Part No. | Add-On Options |
|----------|----------------|
|----------|----------------|

|       |   |
|-------|---|
| 82552 | Diaphragm Air Flow Switch   |
| 33845 | Alarm Bell  |
| 61200 | Alarm Silencing System  |
| 35899 | Low Oil Pressure Switch   |
| 98007 | Transformer, 120/24V, 40 VA   |
| 50418 | Control Circuit Transformer (specify primary voltage & phase) 240-480/120         |
| 50420 | Control Circuit Transformer (specify primary voltage & phase) 190-220/380-440/120 |
| 50419 | Control Circuit Transformer (specify primary voltage & phase) 600/120             |
| 97991 | DPDT R4222D1039 Isolating Relay   |
| 97237 | Relay Base 8-Pin  |
| 78741 | Low-High Switch Panel Kit   |
| 61267 | Safety Oil Valve Kit  |
| 37341 | Oil Pressure Gage (400#) with Shut-off Cock                                       |
|       | Remote Panel Option   |
| 74823 | Indicator Light Lamp  |

**INDICATOR LIGHTS AS SPECIFIED**

|                |  |
|----------------|--|
| Consult Carlin | Select from the following indicator lights: Power On, Burner Motor, Flow (when air flow switch specified), Ignition, Main Flame, High Fire, Control Lockout, High Limit, Low Water, Call for Heat. |
|----------------|--|



| Part No. | Description |
|----------|-------------|
|----------|-------------|

**EZGas Pro APPLIANCE SPECIFIC BURNERS**

Factory configured EZ Gas Burners. Available for a wide variety of oil-fired appliances. (Consult Carlin's Burner Setup Tables at [www.CarlinCombustion.com](http://www.CarlinCombustion.com)). Includes welded mounting flange, mounted diffuser plate and air band, and a pre-drilled orifice.

|                 |                                      |
|-----------------|--------------------------------------|
| Consult Factory | EZGas Pro Appliance Specific Burners |
|-----------------|--------------------------------------|

**EZGas Pro MULTI-FIT BURNERS**

Includes one diffuser (**B**: 50,000-175,000 BTU, **A**: 150,000 -275,000 BTU, **9-Slot**: 70,000-230,000 BTU) and matching Air Band, Adjustable Flange, Field Drilled Orifice

|              |   |
|--------------|---|
| 9859210BFR1  | EZGas Pro Natural/Propane 10" Air Tube, "B" Diffuser    |
| 9859210AFR1A | EZGas Pro Natural/Propane 10" Air Tube, "A" Diffuser    |
| 9859210SFR1  | EZGas Pro Natural/Propane 10" Air Tube, 9-Slot Diffuser |
| 9859212BFR1  | EZGas Pro Natural/Propane 12" Air Tube, "B" Diffuser    |
| 9859212AFR1  | EZGas Pro Natural/Propane 12" Air Tube, "A" Diffuser    |
| 9859212SFR1  | EZGas Pro Natural/Propane 12" Air Tube, 9-Slot Diffuser |
| 9859214BFR1  | EZGas Pro Natural/Propane 14" Air Tube, "B" Diffuser    |
| 9859214AFR1  | EZGas Pro Natural/Propane 14" Air Tube, "A" Diffuser    |
| 9859214SFR3  | EZGas Pro Natural/Propane 14" Air Tube, 9-Slot Diffuser |
| 9859216BFR   | EZGas Pro Natural/Propane 16" Air Tube, "B" Diffuser    |
| 9859216AFR   | EZGas Pro Natural/Propane 16" Air Tube, "A" Diffuser    |
| 9859218BFR1  | EZGas Pro Natural/Propane 18" Air Tube, "B" Diffuser    |
| 9859218AFR   | EZGas Pro Natural/Propane 18" Air Tube, "A" Diffuser    |

**EZGas Pro Universal (Full BTU Range) Burners**

Includes three Diffuser Plates (A, B, and 9-Slot), two Air Bands (1-Slot and 2-Slot), Adjustable Flange and Field Drilled Orifice.

|             |   |
|-------------|---|
| 9859210FRU  | Universal (Full Range) EZGas Pro Burner 10" Air Tube – Accommodates most boilers                    |
| 9859210FRU1 | As Above with Cover (RESCVR5S) Installed  |
| 9859214FRU  | Universal (Full Range) EZGas Pro Burner 14" Air Tube – Accommodates most Furnaces and Water Heaters |
| 9859214FRU1 | As Above with Cover (RESCVR5S) Installed  |

**EZGas Pro STANDARD EQUIPMENT**

- 24V Dual Gas Valve (Natural or Propane Gas) LP Conversion Kit not required.
- Direct Spark Ignition
- Pre-Wired Package Burner
- Carlin 60200FR Primary Safety Control
- Carlin Solid State Ignitor 9KV
- Carlin PSC Motor
- Indicator Light – Flame Present
- Flame Signal Test Jack
- Heavy Duty Universal Mounting Flange or OEM Welded Flange & Gasket
- Air Tube: 10" with UTL 1-3/4"- 3-1/2", 12" with UTL 1-3/4"- 5-1/2", 14" with UTL 1-3/4"- 7-1/2", 16" with UTL 1-3/4 - 9-1/2", 18" with UTL 1-3/4 - 11-1/2"
- Orifice Drilled for 3/32" Pilot Hole

**OPTIONAL EQUIPMENT**

- Pedestal mount Part No. 23317BLUS.
  - Cover Kit (see next page)
- NOTE: EZGas Service Kit Totes – see page 64



EZGas Pro

Items that are shaded are considered stock items and will ship in 3-5 days.

**GAS BURNERS COVER KITS – For Use on Carlin EZGas Pro Burners**

| Part No. | Description   |
|----------|---|
| RESCVR5S | Cover Kit-Gas: Includes cover, backplate, mounting hardware, 8" field drilled orifice |

NOTE: Fits EZGas Burners manufactured after August 9, 2012.



**OUTSIDE AIR/DIRECT VENT KIT**

| Part No. | Description   |
|----------|---|
| 50433KIT | Includes: Filler Section for Backplate with mounting bolts, 4" Air Inlet with Mounting Screws, Insert for Oil Line Opening, 1-5/8" Grommet for BX Cable, push plugs |

Filler Section for Backplate



Grommet



Insert for Oil Line Opening



4" Air Inlet



RESIDENTIAL GAS BURNERS  
**G3B Burners**

| Part No. | Description |
|----------|-------------|
|----------|-------------|

| <b>G3B GAS BURNERS</b>             |                             |
|------------------------------------|-----------------------------|
| <b>60,000-180,000 BTU/HR INPUT</b> |                             |
| 74245                              | G3B Natural/Propane GH1 6"  |
| 74252                              | G3B Natural/Propane GH1 9"  |
| 74229                              | G3B Natural/Propane GH1 12" |

**STANDARD EQUIPMENT**

- 24V Dual Gas Valve (Natural or Propane Gas) LP Conversion Kit not required.
- Hot Surface Ignition
- Pre-Wired Control Panel
- 24V Primary Safety Control
- Transformer 120/24V
- Indicator Light – Gas Valve On
- Terminal Strip
- Flange & Pedestal
- 6", 9" or 12" Air Tube
- Orifice Drilled for Lowest Burner Input (Propane)
- Motor Relay

| Part No.   | Description                                       |
|--|---|
| <b>201GAS GAS BURNERS WITH DIRECT SPARK IGNITION, 120V CONTROL SYSTEM AND 120V GAS VALVE</b>   |   |
| <i>150,000-399,000 BTUH INPUT Diffuser BTU Rates: "C" Diffuser 150,000-215,000 BTU, "B" Diffuser 215,000-300,000 BTU, "A" Diffuser 300,000-399,000 BTU</i> |   |
| 9859308CFR   | 201GAS Natural/Propane 8" Air Tube, "C" Diffuser  |
| 9859308BFRA  | 201GAS Natural/Propane 8" Air Tube, "B" Diffuser  |
| 9859308AFR1  | 201GAS Natural/Propane 8" Air Tube, "A" Diffuser  |
| 9859310CFR   | 201GAS Natural/Propane 10" Air Tube, "C" Diffuser |
| 9859310BFR   | 201GAS Natural/Propane 10" Air Tube, "B" Diffuser |
| 9859310AFRA  | 201GAS Natural/Propane 10" Air Tube, "A" Diffuser |
| 9859312CFR   | 201GAS Natural/Propane 12" Air Tube, "C" Diffuser |
| 9859312BFR   | 201GAS Natural/Propane 12" Air Tube, "B" Diffuser |
| 9859312AFR   | 201GAS Natural/Propane 12" Air Tube, "A" Diffuser |
| 9859314CFR1  | 201GAS Natural/Propane 14" Air Tube, "C" Diffuser |
| 9859314BFRA  | 201GAS Natural/Propane 14" Air Tube, "B" Diffuser |
| 9859314AFR1  | 201GAS Natural/Propane 14" Air Tube, "A" Diffuser |
| 9859316CFR   | 201GAS Natural/Propane 16" Air Tube, "C" Diffuser |
| 9859316BFR   | 201GAS Natural/Propane 16" Air Tube, "B" Diffuser |
| 9859316AFRA  | 201GAS Natural/Propane 16" Air Tube, "A" Diffuser |

#### STANDARD EQUIPMENT

1. 120V Combination Gas Valve and Regulator (Natural or Propane Gas)
2. Direct Spark Ignition
3. Pre-Wired Package Burner
4. Carlin 60200FR Primary Safety Control
5. Carlin Solid State Ignitor 9KV
6. Carlin PSC Motor
7. Indicator Light – Flame Present
8. Flame Signal Test Jack
9. Heavy Duty Universal Mounting Flange or OEM Welded Flange & Gasket
10. Air Tube: 8" with UTL 1-3/4"- 2-1/2", 10" with UTL 1-3/4"- 4-1/2", 12" with UTL 1-3/4"- 6-1/2", 14" with UTL 1-3/4"- 8-1/2", 16" with UTL 1-3/4"- 10-1/2"
11. Orifice Drilled for 3/32" Pilot Hole

#### OPTIONAL EQUIPMENT

1. Pedestal mount Part No. 23358BLUS.
2. Dual Vales and RV Regulator.

Model 201GAS fires both natural & propane gas without a conversion kit.

| Part No. | Description |
|----------|-------------|
|----------|-------------|

**301GAS GAS BURNERS WITH DIRECT SPARK IGNITION, 120V CONTROL SYSTEM AND PRE-WIRED GAS TRAIN**

*Note: Low Gas Pressure Train required for burners firing with less than 5" W.C. See Adder Below for Low Gas Pressure Gas Trains. In Massachusetts, you can't fire this burner over 999,999 BTUH. See 601GAS for burners firing over 999,999 BTUH.*

**CHASSIS & TRAIN – 401,000-1,100,000 BTUH INPUT**

|            |   |
|------------|---|
| 9931214LFR | 301GAS Natural/Propane 14" B Air Tube, Firing Rate 401,000-700,000 BTUH, blank air shutter              |
| 9931214MFR | 301GAS Natural/Propane 14" C Air Tube, Firing Rate 550,000-1,100,000 BTUH, partial (center) air shutter |
| 9931214HFR | 301GAS Natural/Propane 14" C Air Tube, Firing Rate 750,000-1,100,000 BTUH, no air shutter               |

**MASSACHUSETTS BURNERS REQUIRED A NON-RECYCLING CONTROL – 401,000-1,000,000 BTUH INPUT**

|             |   |
|-------------|---|
| 9931214LFRM | 301GAS Natural/Propane 14" Air Tube, Firing Rate 401,000-700,000 BTUH   |
| 9931214MFRM | 301GAS Natural/Propane 14" Air Tube, Firing Rate 550,000-1,000,000 BTUH |
| 9931214HFRM | 301GAS Natural/Propane 14" Air Tube, Firing Rate 750,000-1,000,000 BTUH |

**LOW GAS PRESSURE GAS TRAINS – REPLACES STANDARD GAS TRAIN. ADD TO ABOVE PRICING.**

|                 |  |
|-----------------|--|
| Consult Factory | Low Gas Pressure – 1 1/4" Gas Train for up to 800,000 BTUH |
| Consult Factory | Low Gas Pressure – 1 1/2" Gas Train for up to 950,000 BTUH |

**STANDARD EQUIPMENT**

1. Direct Spark Ignition
2. Carlin 41800 Solid State Ignitor 9KV
3. Carlin 60200FR Primary Safety Control
4. Indicator Light – Flame Present
5. Flame Signal Test Jack
6. Carlin 1/6 HP PSC Motor
7. Tridelta Model AP4638 Differential Pressure Type Air Flow Switch
8. OEM Welded Flange & Gasket
9. 14" Air Tube
10. Standard Burner comes equipped with 1" Standard Gas Train

**OPTIONAL EQUIPMENT**

1. Pedestal mount Part No. 23358BLUS.
- Model 301GAS fires both natural & propane gas without a conversion kit.

|         |              |
|---------|--------------|
| 99518C* | 1" Train     |
| 99519C* | 1-1/4" Train |
| 99924C* | 1-1/2" Train |
| 99925C* | 2" Train     |

\*To meet Mass code, please add "EN" to part number.

| Part No. | Description |
|----------|-------------|
|----------|-------------|

**601GAS GAS BURNERS WITH DIRECT SPARK IGNITION, 120V CONTROL SYSTEM AND PRE-WIRED GAS TRAIN**

*Note: Low Gas Pressure Train required for burners firing with less than 5" W.C. See Adder Below for Low Gas Pressure Burners. For Massachusetts burners with low gas pressure add the Low Gas Pressure Gas Train to the burner cost.*

**CHASSIS & TRAIN – 700,000-1,500,000 BTUH INPUT**

|            |  |
|------------|--|
| 9952014LFR | 601GAS Natural/Propane – 14" Air Tube, 1" Gas Train 700,000-1,000,000 BTUH     |
| 9952014MFR | 601GAS Natural/Propane – 14" Air Tube, 1" Gas Train 800,000-1,050,000 BTUH     |
| 9952014HFR | 601GAS Natural/Propane – 14" Air Tube, 1-1/4" Gas Train 900,000-1,500,000 BTUH |

**MASSACHUSETTS BURNERS REQUIRE A NON-RECYCLING CONTROL – 700,000-1,500,000 BTUH INPUT**

|             |   |
|-------------|---|
| 9952014LFRM | MA 601GAS Natural/Propane 14" Air Tube, 1" Gas Train 700,000-1,000,000 BTUH     |
| 9952014MFRM | MA 601GAS Natural/Propane 14" Air Tube, 1" Gas Train 800,000-1,050,000 BTUH     |
| 9952014HFRM | MA 601GAS Natural/Propane 14" Air Tube, 1-1/4" Gas Train 900,000-1,500,000 BTUH |

**LOW GAS PRESSURE GAS TRAINS – REPLACES STANDARD GAS TRAIN**

|                 |  |
|-----------------|--|
| Consult Factory | Burners with MA Code Low Gas Pressure Gas Train – 1-1/2" Gas Train for to 1,137,000 BTUH |
| Consult Factory | Burners with Low Gas Pressure Gas Train – 1-1/2" Gas Train for up to 1,137,000 BTUH      |
| Consult Factory | Burners with MA Code Low Gas Pressure Gas Train – 2" Gas Train for up to 1,400,000 BTUH  |
| Consult Factory | Burners with Low Gas Pressure Gas Train – 2" Gas Train for up to 1,400,000 BTUH          |

**STANDARD EQUIPMENT**

1. Direct Spark Ignition
2. Carlin 41000 Solid State Ignitor
3. Carlin 60200FR Primary Safety Control
4. Indicator Light – Flame Present
5. Flame Signal Test Jack
6. Marathon 1/2 HP Motor
7. Tridelta Model AP 4638
8. OEM Welded Flange & Gasket
9. 14" Air Tube

**OPTIONAL EQUIPMENT**

1. Pedestal mount Part No. 23382BLU1S.

Model 601GAS fires both natural & propane gas without a conversion kit.

| Part No. | Description |
|----------|-------------|
|----------|-------------|

**702GAS GAS BURNERS WITH DIRECT SPARK IGNITION, 120V CONTROL SYSTEM AND PRE-WIRED GAS TRAIN**

*Note: Chassis, Gas Train, and Orifice sold separately. Low Gas Pressure Train required for burners firing with less than 5" W.C. See Adder below for Low Gas Pressure Burners. Massachusetts burners require special wiring codes. See below.*

**CHASSIS – 840,000-1,600,000 BTUH INPUT**

|           |  |
|-----------|--|
| 50065V50  | 702GAS Standard Chassis Only           |
| 50065V50M | 702GAS Massachusetts Code Chassis Only |

**STANDARD AND LOW GAS PRESSURE GAS TRAIN**

|        |  |
|--------|--|
| 99743B | Standard Gas Train – 1" Gas Train for up to 1,000,000 BTUH             |
| 99743E | Low Gas Pressure Gas Train – 1-1/4" Gas Train for up to 1,200,000 BTUH |
| 99743G | Low Gas Pressure Gas Train – 1-1/2" Gas Train for up to 1,350,000 BTUH |
| 99743J | Low Gas Pressure Gas Train – 2" Gas Train for up to 1,600,000 BTUH     |

**MASSACHUSETTS CODE AND LOW GAS PRESSURE GAS TRAIN**

|        |   |
|--------|---|
| 99743C | MA Code with MA Gas Train – 1" Gas Train  |
| 99743F | MA Code and Low Gas Pressure Gas Train – 1-1/4" Gas Train with Low and High Gas Pressure Switches for MA Code |
| 99743H | MA Code and Low Gas Pressure Gas Train – 1-1/2" Gas Train with Low and High Gas Pressure Switches for MA Code |
| 99743K | MA Code and Low Gas Pressure Gas Train – 2" Gas Train with Low and High Gas Pressure Switches for MA Code     |

**ORIFICE**

|         |             |
|---------|-------------|
| 73007S  | Natural Gas |
| 73007AS | Propane     |

**STANDARD EQUIPMENT**

1. Carlin 41000 Solid State Ignitor
2. Model RM7897C Primary Safety Control
3. Model C7027A UV Scanner
4. Marathon 1/2 HP Motor
5. Damper Motor with End Switch
6. 14" Air Tube

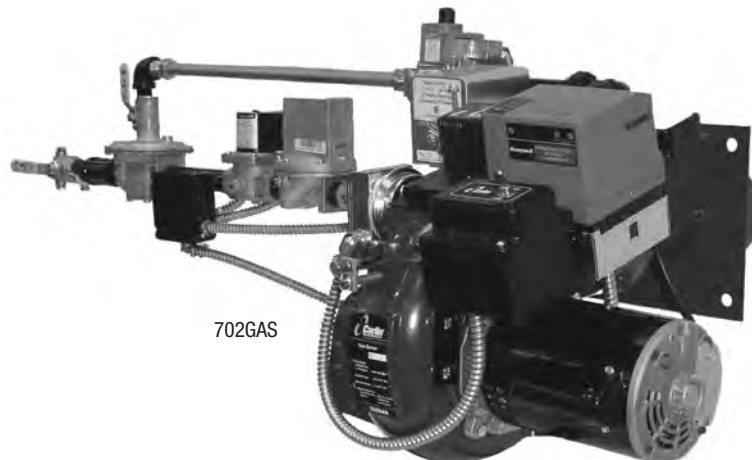
**GAS TRAIN EQUIPMENT – PRE-WIRED, PRE-PIPED & FACTORY TESTED**

1. Maxitrol Model RV Gas Pressure Regulator
2. Model V4295A Solenoid Gas Valve
3. Model V48A Diaphragm Gas Valve
4. Model VR4305M Combination Pilot Valve

**OPTIONAL TRAIN EQUIPMENT**

1. Pedestal mount Part No. 23382BLU1S.

Model 702GAS fires both natural & propane gas without a conversion kit. Only need to change pilot orifice.



702GAS

| Part No. | Description |
|----------|-------------|
|----------|-------------|

**702G/O COMBINATION GAS/OIL BURNERS WITH 120V CONTROL SYSTEM AND PREWIRED GAS TRAIN**

*Note: Chassis, Gas Train, and Orifice sold separately. Low Gas Pressure Train required for burners firing with less than 5" W.C. See Adder Below for Low Gas Pressure Burners. Massachusetts burners require special wiring codes. See below.*

**CHASSIS – 6.0 TO 11.2 GPH OIL AND 840,000-1,600,000 BTUH INPUT**

|           |  |
|-----------|--|
| 99445V50  | 702G/O Standard Chassis Only           |
| 99445V50M | 702G/O Massachusetts Code Chassis Only |
| 99445V50N | 702G/O New York City Chassis Only      |

**STANDARD AND LOW GAS PRESSURE GAS TRAIN**

|        |  |
|--------|--|
| 99743B | Standard Gas Train – 1" Gas Train for up to 1,000,000 BTUH             |
| 99743E | Low Gas Pressure Gas Train – 1-1/4" Gas Train for up to 1,200,000 BTUH |
| 99743G | Low Gas Pressure Gas Train – 1-1/2" Gas Train for up to 1,350,000 BTUH |
| 99743J | Low Gas Pressure Gas Train – 2" Gas Train for up to 1,600,000 BTUH     |

**MASSACHUSETTS CODE AND LOW GAS PRESSURE GAS TRAIN**

|        |   |
|--------|---|
| 99743C | MA Code with MA Gas Train – 1" Gas Train  |
| 99743F | MA Code and Low Gas Pressure Gas Train – 1-1/4" Gas Train with Low and High Gas Pressure Switches for MA Code |
| 99743H | MA Code and Low Gas Pressure Gas Train – 1-1/2" Gas Train with Low and High Gas Pressure Switches for MA Code |
| 99743K | MA Code and Low Gas Pressure Gas Train – 2" Gas Train with Low and High Gas Pressure Switches for MA Code     |

**ORIFICE**

|         |             |
|---------|-------------|
| 73007S  | Natural Gas |
| 73007AS | Propane     |

**STANDARD EQUIPMENT**

1. Carlin 41000 Solid State Ignitor
2. Model RM7897C Primary Safety Control
3. Model C7027A UV Scanner
4. Marathon 1/2 HP Motor
5. Damper Motor with End Switch
6. 14" Air Tube
7. Two Stage Two Step Fuel Pump "B"

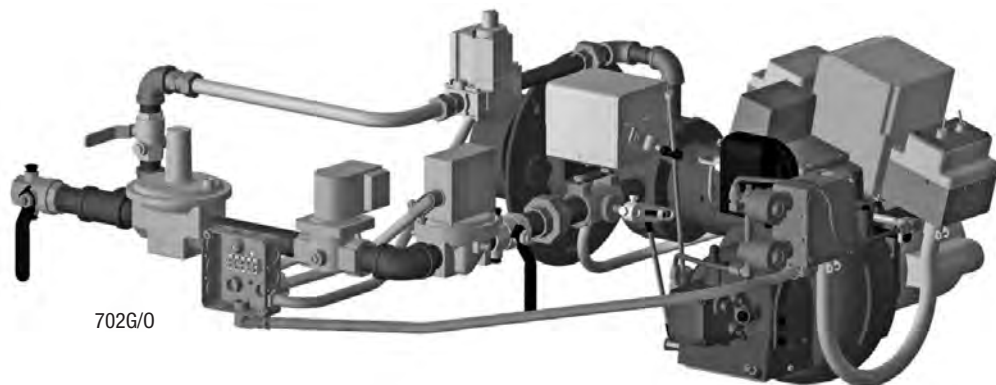
**GAS TRAIN EQUIPMENT – PRE-WIRED, PRE-PIPED & FACTORY TESTED**

1. Maxitrol Model RV Gas Pressure Regulator
2. Model V4295A Solenoid Gas Valve
3. Model V48A Diaphragm Gas Valve
4. Model VR4305M Combination Pilot Valve

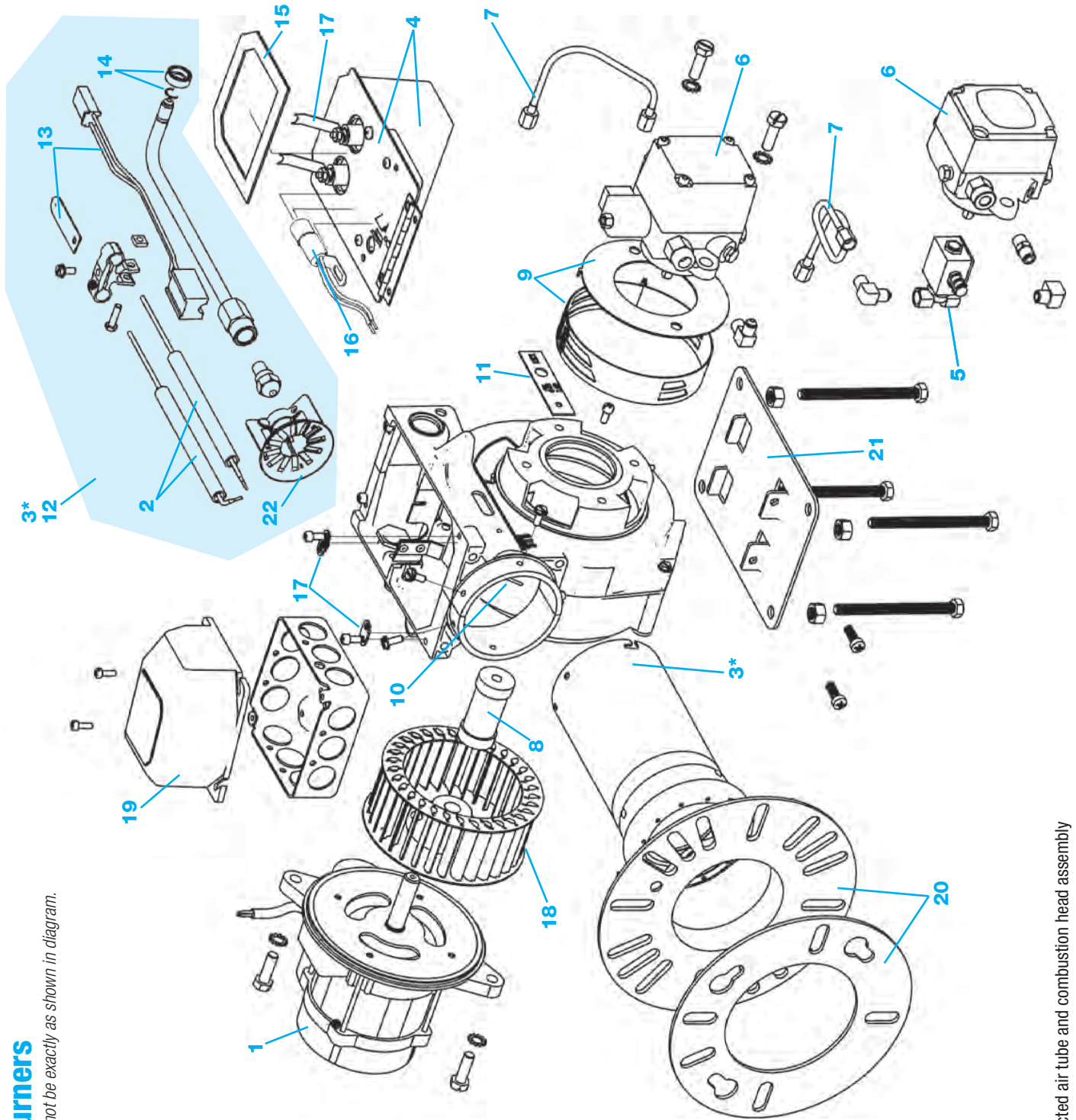
**OPTIONAL TRAIN EQUIPMENT**

1. Pedestal mount Part No. 23382REDS.

Model 702G/O fires both natural & propane gas without a conversion kit. Only need to change pilot orifice.







**38 EZ Oil Burners**

Note: Parts may not be exactly as shown in diagram.

\*3 includes selected air tube and combustion head assembly

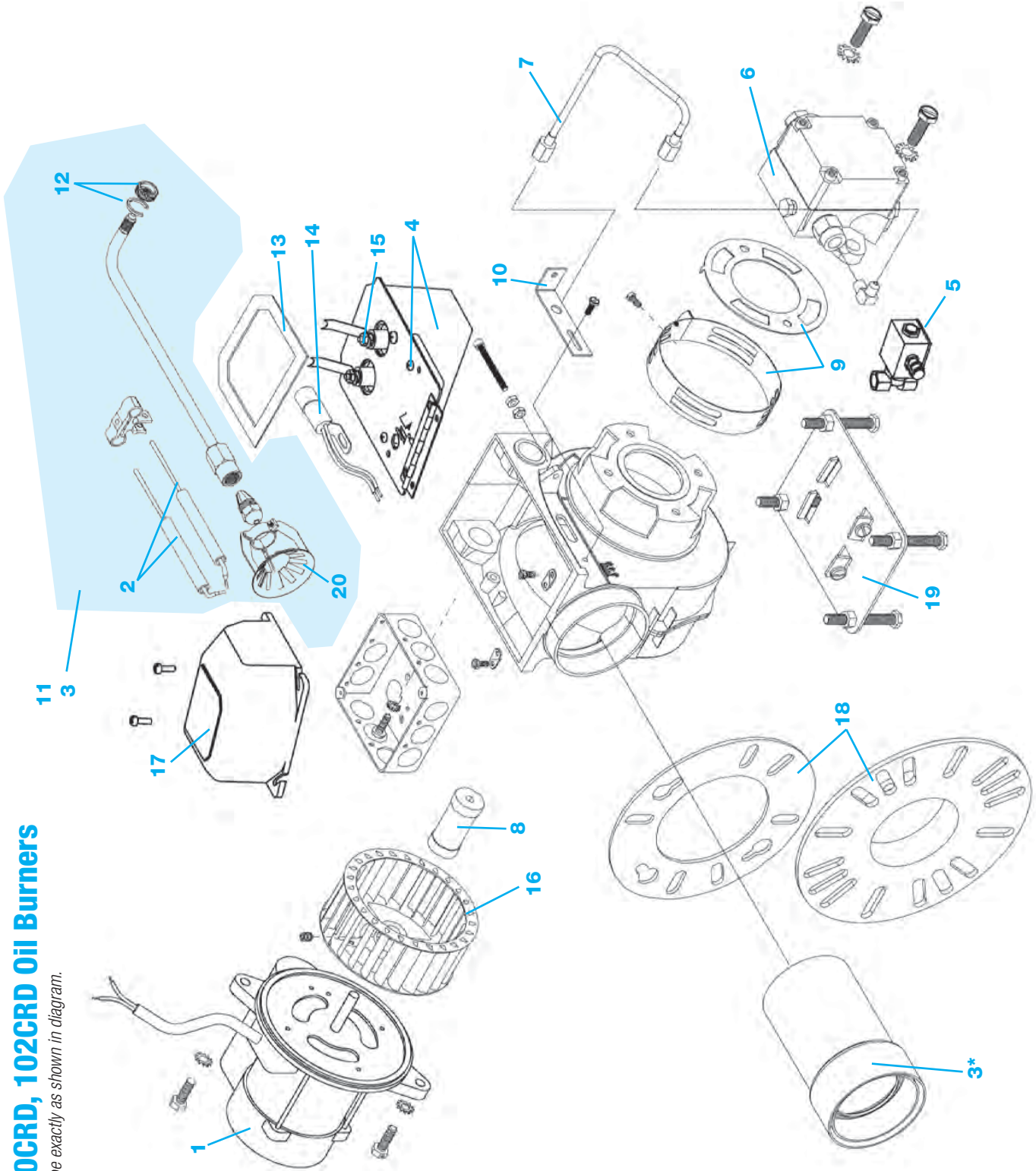


| ITEM   | PART NO.                                | DESCRIPTION                              | EZ1 | EZ2 | EZ3 |
|--------|---|--|-----|-----|-----|
| 1      | 98022S                                  | 1/6HP PSC Motor, 48 M Frame              | •   | •   | •   |
| 2      | 82750S                                  | Electrode set (2), – 4"                  | •   |     |     |
|        | 82768S                                  | Electrode set (2), – 5"                  | •   | •   | •   |
|        | 82776S                                  | Electrode set (2), – 7"                  | •   | •   | •   |
|        | 82784S                                  | Electrode set (2), – 9"                  | •   | •   | •   |
|        | 82792S                                  | Electrode set (2), – 11"                 | •   | •   | •   |
| 3      | 78071S                                  | EZ1 5" Air Tube/Combustion Head Assy     | •   |     |     |
|        | 78089S                                  | EZ1 7" Air Tube/Combustion Head Assy     | •   |     |     |
|        | 78105S                                  | EZ1 9" Air Tube/Combustion Head Assy     | •   |     |     |
|        | 78113S                                  | EZ1 11" Air Tube/Combustion Head Assy    | •   |     |     |
|        | 84764S                                  | EZ2/3 5" Air Tube/Combustion Head Assy   |     | •   | •   |
|        | 84772S                                  | EZ2/3 7" Air Tube/Combustion Head Assy   |     | •   | •   |
|        | 84780S                                  | EZ2/3 9" Air Tube/Combustion Head Assy   |     | •   | •   |
| 84798S | EZ2/3 11" Air Tube/Combustion Head Assy |  | •   | •   |     |
| 4      | 41000S                                  | 110V Ignitor                             | •   | •   | •   |
|        | 41000S0CAS                              | 110V Ignitor on Baseplate                | •   | •   | •   |
| 5      | SVC10FFS                                | Oil Valve                                | •   | •   | •   |
|        | 98289S                                  | Oil Valve Kit with fittings              | •   | •   | •   |
| 6      | 22996S                                  | Fuel Unit A2VA-7116                      | •   | •   | •   |
|        | 98750S                                  | Fuel Unit A2VA-3006                      | •   | •   | •   |
| 7      | 34397S                                  | Oil line kit (incl. all oil lines)       | •   | •   | •   |
| 8      | 75564S                                  | Fuel Unit Coupling                       | •   | •   | •   |
| 9      | 98055S                                  | EZ1 Airband/Air Shutter Kit              | •   |     |     |
|        | 98087S                                  | EZ2 Airband/Air Shutter Kit              |     | •   |     |
|        | 98096S                                  | EZ3 Airband/Air Shutter Kit              |     |     | •   |
| 10     | 98059AS                                 | Augmentor, rivet & washer kit (obscured) | •   | •   | •   |

| ITEM | PART NO. | DESCRIPTION                                | EZ1 | EZ2 | EZ3 |
|------|----------|--|-----|-----|-----|
| 11   | 81570S   | Head bar kit (7 bars & screw)              | •   |     |     |
|      | 84715S   | Head bar kit (4 bars & screw)              |     | •   |     |
|      | 86389S   | Head bar kit (3 bars & screw)              |     |     | •   |
| 12   | 77941S   | Combustion Head Assy 4"                    | •   |     |     |
|      | 77958S   | Combustion Head Assy 5"                    | •   | •   | •   |
|      | 77966S   | Combustion Head Assy 7"                    | •   | •   | •   |
|      | 77974S   | Combustion Head Assy 9"                    | •   | •   | •   |
|      | 77982S   | Combustion Head Assy 11"                   | •   | •   | •   |
| 13   | 66795S   | Nozzle Line Heater Kit                     | •   | •   | •   |
| 14   | 50624S   | C-Ring & Thumb nut kit                     | •   | •   | •   |
| 15   | 50821S   | Gasket kit (10 gaskets)                    | •   | •   | •   |
| 16   | 14407SES | Cad Cell Kit                               | •   | •   | •   |
| 17   | 41DTK01S | Universal Ignitor Terminal Kit (not shown) | •   | •   | •   |
| 18   | 77933S   | Blower wheel / fan                         | •   | •   | •   |
| 19   | 70200S   | Universal Primary w/ Display 70200         | •   | •   | •   |
|      | 48245S   | Model 48245 Primary w/ Smart Ignition      | •   | •   | •   |
|      | 4020002S | Model 40200 Primary 30/15/30               | •   | •   | •   |
|      | 5020002S | Model 50200 Primary 30/15/30               | •   | •   | •   |
|      | 6020002S | Model 60200 Primary 15/15/15               | •   | •   | •   |
| 20   | 81372S   | Mounting Flange & Gasket                   | •   | •   | •   |
| 21   | 23317S   | Pedestal W/Hardware                        | •   | •   | •   |
| 22   | 77438S   | Retention Ring Assy                        | •   | •   | •   |

40 **99FRD, 100CRD, 102CRD Oil Burners**

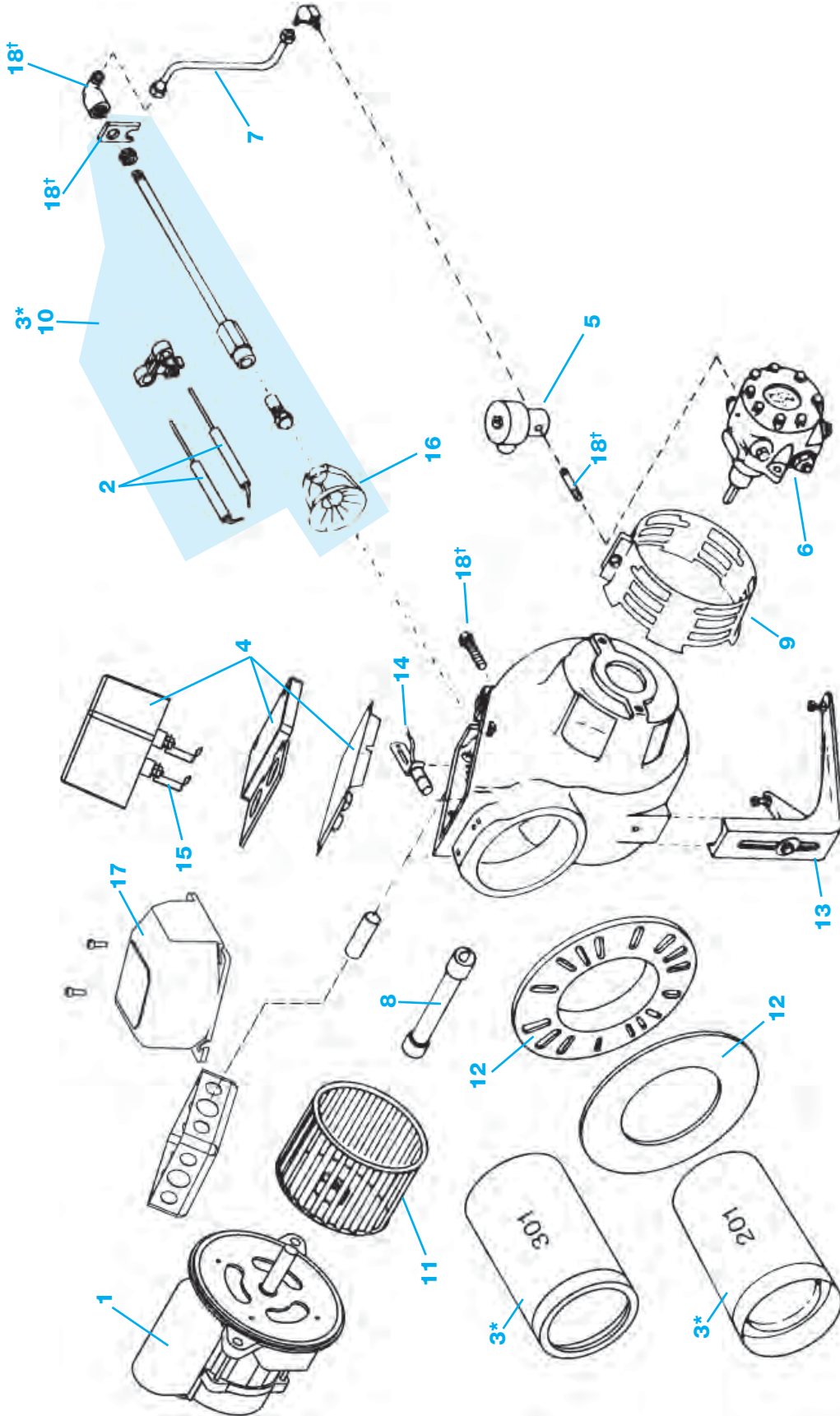
*Note: Parts may not be exactly as shown in diagram.*



\*3 includes selected air tube and combustion head assembly

| ITEM | PART NO. | DESCRIPTION                                | 99FRD | 100CRD | 102CRD |
|------|----------|--|-------|--------|--------|
| 10   | 5489001S | Nozzle Line adjusting slide                | •     |        |        |
| 11   | 51805S   | Combustion Head Assy 5"                    | •     | •      |        |
|      | 51854S   | Combustion Head Assy 7"                    | •     | •      |        |
|      | 51896S   | Combustion Head Assy 9"                    | •     | •      |        |
|      | 51599S   | Combustion Head Assy 11"                   | •     | •      |        |
|      | 52316S   | Combustion Head Assy 5"                    |       |        | •      |
|      | 52373S   | Combustion Head Assy 7"                    |       |        | •      |
|      | 52472S   | Combustion Head Assy 9"                    |       |        | •      |
|      | 52183S   | Combustion Head Assy 11"                   |       |        | •      |
| 12   | 50624S   | C-Ring & Thumb nut kit                     | •     | •      | •      |
| 13   | 50821S   | Gasket kit (10 gaskets)                    | •     | •      | •      |
| 14   | 14407SES | Cad Cell Kit                               | •     | •      | •      |
| 15   | 41DTK01S | Universal Ignitor Terminal Kit (not shown) | •     | •      | •      |
| 16   | 28605S   | Blower wheel / fan 99FRD                   | •     |        |        |
|      | 28530S   | Blower wheel / fan 100CRD                  |       | •      |        |
|      | 28506S   | Blower wheel / fan 102CRD                  |       |        | •      |
| 17   | 70200S   | Universal Primary w/ Display 70200         | •     | •      | •      |
|      | 48245S   | Model 48245 Primary w/ Smart Ignition      | •     | •      | •      |
|      | 4020002S | Model 40200 Primary 30/15/30               | •     | •      | •      |
|      | 5020002S | Model 50200 Primary 30/15/30               | •     | •      | •      |
|      | 6020002S | Model 60200 Primary 15/15/15               | •     | •      | •      |
| 18   | 23150S   | Mounting Flange & Gasket                   | •     | •      | •      |
| 19   | 23317S   | Pedestal W/Hardware                        | •     | •      | •      |
| 20   | 54981S   | Retention Ring Assy 99/100                 | •     | •      |        |
|      | 55061S   | Retention Ring Assy 102CRD                 |       |        | •      |

| ITEM   | PART NO.                                   | DESCRIPTION                                     | 99FRD | 100CRD | 102CRD |
|--------|--|---|-------|--------|--------|
| 1      | 98022S                                     | 1/6HP PSC Motor, 48 M Frame                     |       | •      | •      |
| 2      | 82768S                                     | Electrode set (2), - 5"                         | •     | •      | •      |
|        | 82776S                                     | Electrode set (2), - 7"                         | •     | •      | •      |
|        | 82784S                                     | Electrode set (2), - 9"                         | •     | •      | •      |
|        | 82792S                                     | Electrode set (2), - 11"                        | •     | •      | •      |
| 3      | 20180S                                     | 99FRD/100CRD 5" Air Tube/Combustion Head Assy   | •     | •      |        |
|        | 20230S                                     | 99FRD/100CRD 7" Air Tube/Combustion Head Assy   | •     | •      |        |
|        | 20313S                                     | 99FRD/100CRD 9" Air Tube/Combustion Head Assy   | •     | •      |        |
|        | 19919S                                     | 99FRD/100CRD 11" Air Tube/Combustion Head Assy  | •     | •      |        |
|        | 21790S                                     | 102CRD 5" B Air Tube/Combustion Head Assy       |       |        | •      |
|        | 21857S                                     | 102CRD 7" B Air Tube/Combustion Head Assy       |       |        | •      |
|        | 21881S                                     | 102CRD 9" B Air Tube/Combustion Head Assy       |       |        | •      |
|        | 21691S                                     | 102CRD 11" B Air Tube/Combustion Head Assy      |       |        | •      |
|        | 21980S                                     | 102CRD 5" C Air Tube/Combustion Head Assy       |       |        | •      |
|        | 21998S                                     | 102CRD 7" C Air Tube/Combustion Head Assy       |       |        | •      |
| 22004S | 102CRD 9" C Air Tube/Combustion Head Assy  |   |       | •      |        |
| 21915S | 102CRD 11" C Air Tube/Combustion Head Assy |   |       | •      |        |
| 4      | 41000S                                     | 110V Ignitor                                    | •     | •      | •      |
|        | 41000S0CAS                                 | 110V Ignitor on Baseplate                       | •     | •      | •      |
| 5      | SVC10FFS                                   | Oil Valve                                       | •     | •      | •      |
|        | 98289S                                     | Oil Valve Kit with fittings                     | •     | •      | •      |
| 6      | 22996S                                     | Fuel Unit A2VA-7116                             | •     | •      |        |
|        | 98750S                                     | Fuel Unit A2VA-3006                             | •     | •      |        |
|        | 23234S                                     | Fuel Unit A2VA-7916                             |       |        | •      |
| 7      | 34397S                                     | Oil line kit (incl. all oil lines)              | •     | •      | •      |
| 8      | 75564S                                     | Fuel Unit Coupling                              | •     | •      | •      |
| 9      | 98100S                                     | 99FRD/100CRD/102CRD Air Band Shutter Single Kit | •     | •      | •      |
|        | 98101S                                     | 99FRD/100CRD/102CRD Air Band Shutter Dual Kit   | •     | •      | •      |



42 **201-301 Oil Burner**

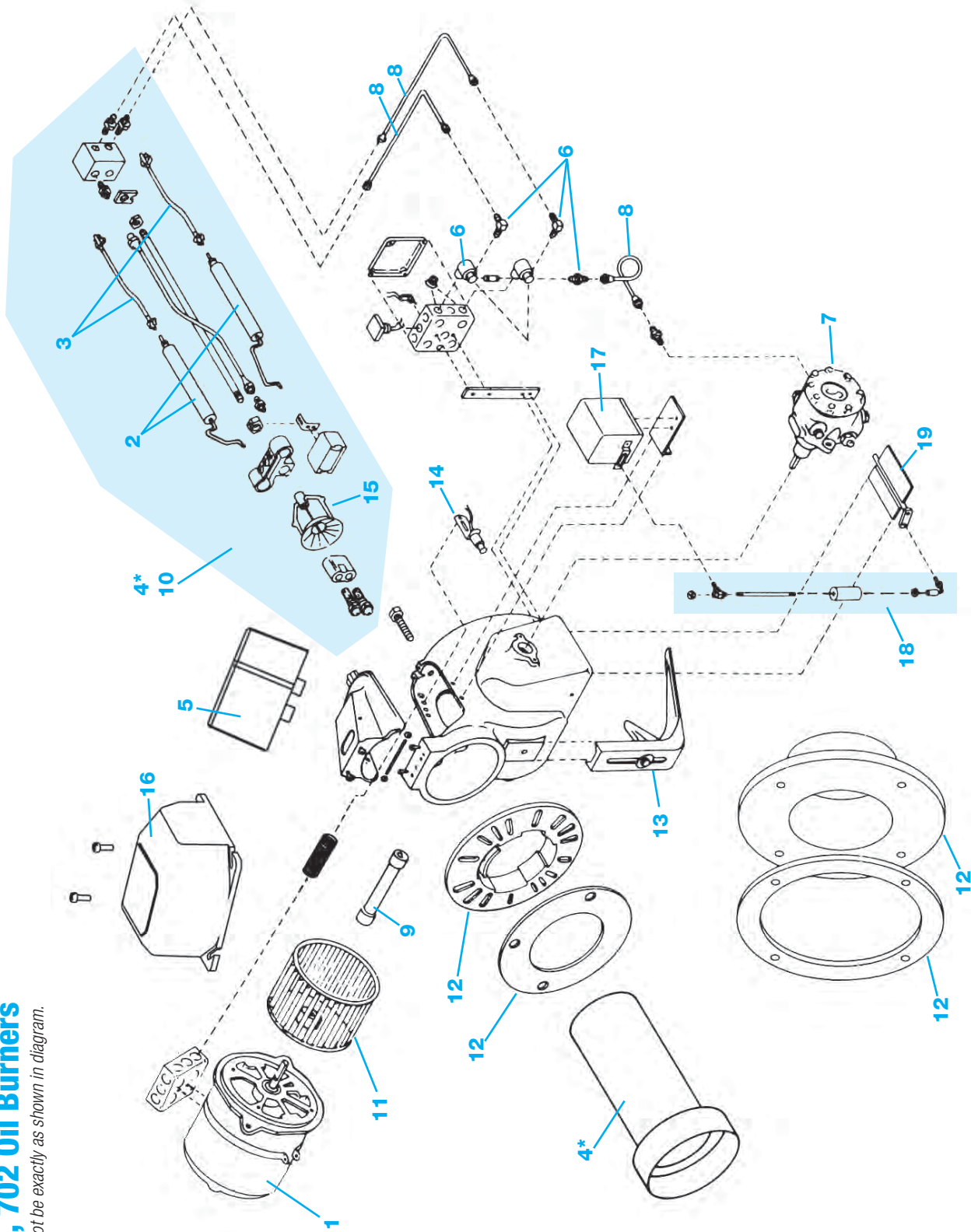
Note: Parts may not be exactly as shown in diagram.

\*3 includes selected air tube and combustion head assembly  
†18 includes multiple parts

| ITEM   | PART NO.  | DESCRIPTION   | 201CRD                       | 301CRD |   |
|--------|-----------|---|------------------------------|--------|---|
| 10     | 54155S    | 7" Nominal, 16-3/4" OAL Combustion Head Assy        | •                            |        |   |
|        | 54205S    | 9" Nominal, 18-3/4" OAL Combustion Head Assy        | •                            |        |   |
|        | 53975S    | 11" Nominal, 20-3/4" OAL Combustion Head Assy       | •                            |        |   |
|        | 54031S    | 15" Nominal, 24-5/16" OAL Combustion Head Assy      | •                            |        |   |
|        | 55574S    | 6" Nominal 16-3/4" OAL Combustion Head Assy         |                              | •      |   |
|        | 55616S    | 8" Nominal 18-3/4" OAL Combustion Head Assy         |                              | •      |   |
|        | 55434S    | 10" Nominal 20-3/4" OAL Combustion Head Assy        |                              | •      |   |
|        | 55491S    | 14" Nominal 24-3/4" OAL Combustion Head Assy        |                              | •      |   |
|        | 11        | 28563S  | Blower wheel/ fan            | •      | • |
|        | 12        | 23259S  | 4" Universal Flange & Gasket | •      | • |
| 23184S |           | 4" Pressure Flange & Gasket                         | •                            | •      |   |
| 13     | 23358S    | Pedestal w/ hardware                                | •                            | •      |   |
| 14     | 14407S0ES | Cad Cell Kit  | •                            | •      |   |
| 15     | 41DTK01S  | Universal Ignitor Terminal kit                      | •                            | •      |   |
| 16     | 55418S    | Retention Ring Assy 201CRD                          | •                            |        |   |
|        | 55715S    | Retention Ring Assy 3010CRD                         |                              | •      |   |
| 17     | 70200S    | Universal Primary W/ Display 70200                  | •                            | •      |   |
|        | 4020002S  | Model 40200 Primary 30/15/30                        | •                            | •      |   |
|        | 5020002S  | Model 50200 Primary 30/15/30                        | •                            | •      |   |
|        | 6020002S  | Model 60200 Primary 15/15/15                        | •                            | •      |   |
| 18     | 2301KITS  | Hardware Kit (Yoke, CH elbow, OV Nip, CH Adj screw) | •                            | •      |   |

| ITEM | PART NO.  | DESCRIPTION  | 201CRD | 301CRD |
|------|-----------|--|--------|--------|
| 1    | 98630S    | 1/4 hp, 120V, 60HZ, 48N Frame Motor                    | •      | •      |
| 2    | 82776S    | Electrode Set (2), 7/16" Nominal, Approx. 8-1/2" OAL   | •      | •      |
|      | 82784S    | Electrode Set (2), 9/8" Nominal, Approx. 10-3/4" OAL   | •      | •      |
|      | 82792S    | Electrode Set (2), 11/10" Nominal, Approx. 12-1/2" OAL | •      | •      |
|      | 82818S    | Electrode Set (2), 15/14" Nominal, Approx. 16-1/2" OAL | •      | •      |
|      | 82826S    | Electrode Set (2), 18/17" Nominal, Approx. 19-1/2" OAL | •      | •      |
| 3    | 22046S    | 201CRD 7" Air Tube/Combustion Head Assy                | •      |        |
|      | 22053S    | 201CRD 9" Air Tube/Combustion Head Assy                | •      |        |
|      | 22012S    | 201CRD 11" Air Tube/Combustion Head Assy               | •      |        |
|      | 22020S    | 201CRD 15" Air Tube/Combustion Head Assy               | •      |        |
|      | 22293S    | 301CRD B-Style 6" Air Tube/Combustion Head Assy        |        | •      |
|      | 22327S    | 301CRD B-Style 8" Air Tube/Combustion Head Assy        |        | •      |
|      | 22202S    | 301CRD B-Style 10" Air Tube/Combustion Head Assy       |        | •      |
|      | 22236S    | 301CRD B-Style 14" Air Tube/Combustion Head Assy       |        | •      |
|      | 22442S    | 301CRD C-Style 6" Air Tube/Combustion Head Assy        |        | •      |
|      | 22475S    | 301CRD C-Style 8" Air Tube/Combustion Head Assy        |        | •      |
| 4    | 41000S    | 110V Ignitor   | •      | •      |
|      | 41000S0SC | 110V Ignitor on Baseplate                              | •      | •      |
| 5    | SVC10FFS  | Oil Valve  | •      | •      |
|      | 98289S    | Oil Valve Kit with fittings                            | •      | •      |
| 6    | 23234S    | Fuel Unit, 1 Stage, A2YA-7916                          | •      | •      |
|      | 74443S    | Fuel Unit, 1 Stage, NYC, A2YA-7916 100PSI              | •      | •      |
|      | 74443HPS  | Fuel Unit, 1 Stage, NYC, A2YA-7916 150PSI              | •      | •      |
|      | 23267S    | Fuel Unit, 2 Stage, B2YA-8916                          | •      | •      |
|      | 74459S    | Fuel Unit, 2 Stage, NYC, B2YA-8916 100PSI              | •      | •      |
| 7    | 74559HPAS | Fuel Unit, 2 Stage, NYC, B2YA-8916 140PSI              | •      | •      |
|      | 74559HPS  | Fuel Unit, 2 Stage, NYC, B2YA-8916 150PSI              | •      | •      |
| 7    | 34785S    | Oil line kit (incl. all oil lines)                     | •      | •      |
| 8    | 28720S    | Fuel Unit Coupling                                     | •      | •      |
| 9    | 47001S    | 201/301CRD 4-slot Air Band                             | •      | •      |



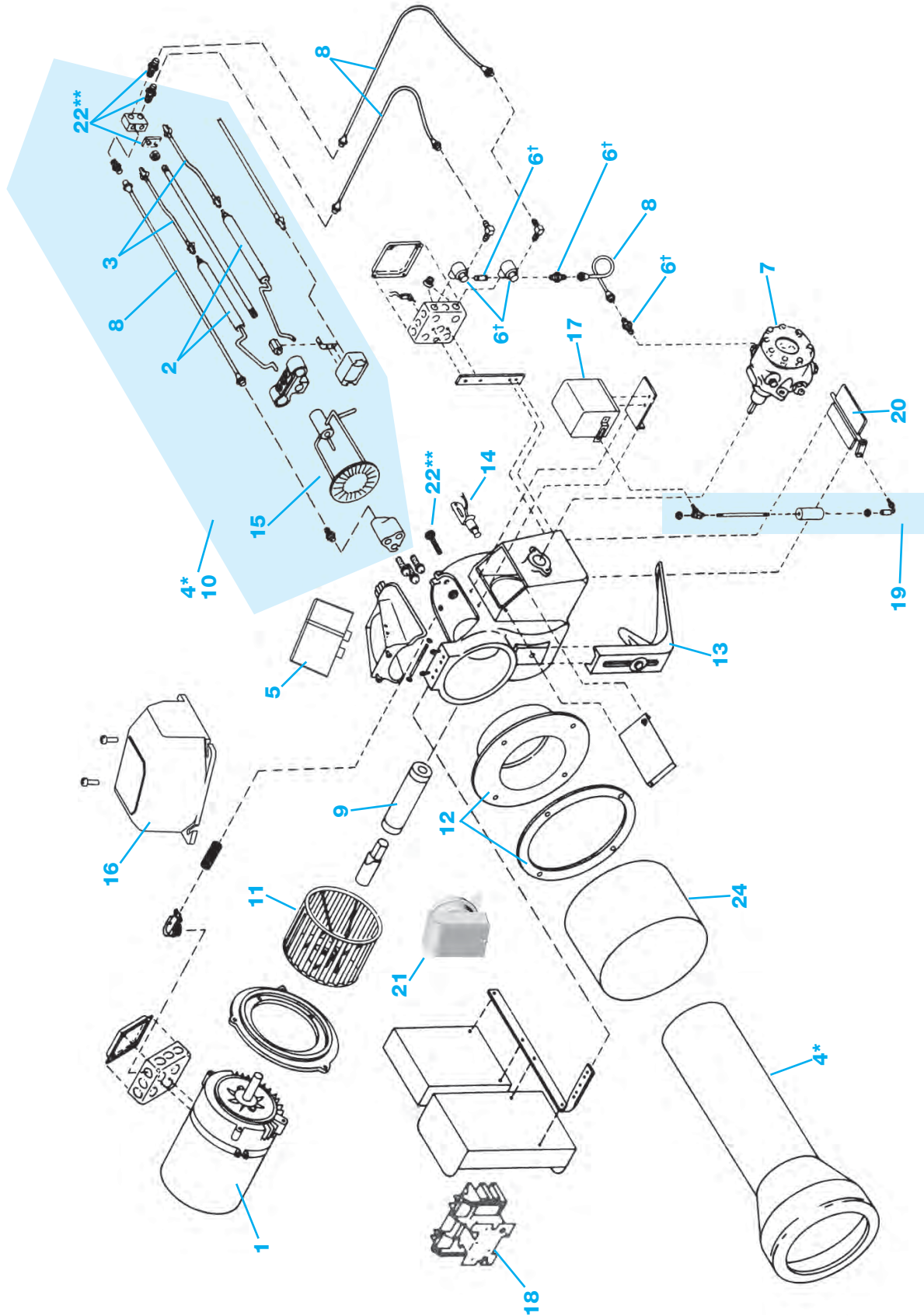


**44 601. 701, 702 Oil Burners**  
*Note: Parts may not be exactly as shown in diagram.*

\*4 includes selected air tube and combustion head assembly

| ITEM | PART NO.  | DESCRIPTION  | 601CRD | 701CRD | 702CRD |
|------|-----------|--|--------|--------|--------|
| 1    | 27706S    | 1/2 hp, 115/230V, 60HZ, 1 Phase, 3450 rpm Motor              | •      | •      | •      |
| 2    | 98507S    | Electrode Set (2), Approx. 9-1/4" OAL                        | •      | •      | •      |
| 3    | 56069S    | Ignition Wire 9-1/4" OAL, for Nominal 12" Air Tube (2 req'd) | •      | •      | •      |
|      | 56036S    | Ignition Wire 10-3/4" OAL for Nominal 14" Air Tube (2 req'd) | •      | •      | •      |
|      | 56085S    | Ignition Wire 8-3/8" OAL, for Nominal 10" Air Tube (2 req'd) | •      | •      | •      |
| 4    | 22517S    | 601CRD 10" Standard Air Tube/Combustion Head Assy            | •      |        |        |
|      | 22541S    | 601CRD 12" Standard Air Tube/Combustion Head Assy            | •      |        |        |
|      | 22574S    | 601CRD 14" Standard Air Tube/Combustion Head Assy            | •      |        |        |
|      | 22632S    | 701CRD 10" Standard Air Tube/Combustion Head Assy            |        | •      |        |
|      | 22665S    | 701CRD 12" Standard Air Tube/Combustion Head Assy            |        | •      |        |
|      | 22699S    | 701CRD 14" Standard Air Tube/Combustion Head Assy            |        | •      |        |
| 5    | 68650S    | 702CRD 10" Standard Air Tube/Combustion Head Assy            |        |        | •      |
|      | 41000S    | 110V Ignitor   | •      | •      | •      |
|      | 41000SOLC | 110V Ignitor on Baseplate                                    | •      | •      | •      |
| 6    | 40857S    | Instant Oil Valve 32Z0071TSCV                                | •      |        | •      |
|      | 41004S    | Instant Oil Valve 32Z0078TSCV 3 Way                          |        | •      | •      |
|      | 61150KITS | Oil Valve Fitting Kit (44560, 29678, 44461, 29728, 44545)    | •      | •      | •      |
| 7    | 74450S    | Fuel Unit, 2 Stage, NYC, J4PB-B1000G                         | •      |        |        |
|      | 74468S    | Fuel Unit, 2 Stage, NYC, J4PB-B1000G                         |        | •      |        |
|      | 23556S    | Fuel Unit, 2 Stage, B2TA-8851                                |        |        | •      |
|      | 74476S    | Fuel Unit, 2 Stage, NYC, B2TA-8851 100/300PSI                |        |        | •      |
|      | 98042S    | Fuel Unit, 2 Stage, B2TA-8260                                |        | •      |        |
|      | 98127S    | Fuel Unit, 2 Stage, NYC, B2TA-8260                           |        | •      |        |
|      | 98126S    | Fuel Unit, 2 Stage, NYC, B2TA-8260                           |        | •      |        |
| 8    | 75291S    | Oil line kit   | •      | •      | •      |
| 9    | 28738S    | Coupling 1/2" ID x 7/16" ID x 4 7/8" L, H or J Pump          |        | •      | •      |
|      | 28761S    | Coupling 1/2" ID x 5/16" ID x 6 11/32" L, B Pump             |        | •      | •      |
|      | 98856S    | Coupling 1/2" ID x 5/16" ID x 6 13/16" L, B Pump             |        |        | •      |

| ITEM | PART NO.  | DESCRIPTION  | 601CRD | 701CRD | 702CRD |
|------|-----------|--|--------|--------|--------|
| 10   | 56416S    | 10" Nominal 20-3/4" OAL Combustion Head Assy                       | •      |        |        |
|      | 56440S    | 12" Nominal 22-3/4" OAL Combustion Head Assy                       | •      |        |        |
|      | 56473S    | 14" Nominal 24-3/4" OAL Combustion Head Assy                       | •      |        |        |
|      | 57349S    | 10" Nominal 20-3/4" OAL Combustion Head Assy                       |        | •      |        |
|      | 57539S    | 12" Nominal 22-3/4" OAL Combustion Head Assy                       |        | •      |        |
|      | 57596S    | 14" Nominal 25-3/4" OAL Combustion Head Assy                       |        | •      |        |
|      | 57737S    | 10" Nominal 20-3/4" OAL Combustion Head Assy                       |        |        | •      |
| 11   | 28589S    | Blower Wheel: 6-5/16" OD x 4" W, 1/2" Bore                         | •      | •      |        |
|      | 98857S    | Blower Wheel Only, 6-1/2" OD x 3-3/4" W, 1/2" Bore                 |        |        | •      |
|      | 98857KITS | Blower Wheel, Coupling, Augmentor, 6-1/2" OD x 3-3/4" W, 1/2" Bore |        |        | •      |
| 12   | 23259S    | 4" Universal Flange & Gasket                                       | •      | •      | •      |
|      | 23184S    | 4" Pressure Flange & Gasket  | •      | •      | •      |
|      | 59444UWS  | 4" Pressure Flange & Gasket – Ultra Violet                         | •      | •      | •      |
| 13   | 23382S    | Pedestal w/ hardware   | •      | •      | •      |
| 14   | 14407S0ES | Cad Cell Kit   | •      | •      | •      |
| 15   | 56580S    | Retention Ring Assy 601CRD   | •      |        |        |
|      | 56697S    | Retention Ring Assy 701CRD   |        | •      |        |
|      | 56747S    | Retention Ring Assy 702CRD   |        |        | •      |
| 16   | 70200S    | Universal Primary W/ Display 70200                                 | •      | •      | •      |
|      | 4020002S  | Model 40200 Primary 30/15/30                                       | •      | •      | •      |
|      | 5020002S  | Model 50200 Primary 30/15/30                                       | •      | •      | •      |
|      | 6020002S  | Model 60200 Primary 15/15/15                                       | •      | •      | •      |
| 17   | 35808S    | Damper Motor – M436A   |        | •      | •      |
| 18   | 22871S    | Damper Motor Linkage Kit   |        | •      | •      |
| 19   | 47407S    | Air Shutter Assembly   | •      |        |        |
|      | 48108S    | Air Shutter Assembly   |        | •      | •      |
| 20   | 6702KITS  | Hardware Kit (54916, 29694, 47167, 29892, 29728)                   | •      | •      | •      |



**46 801, 1050 & 1150 Oil Burners**

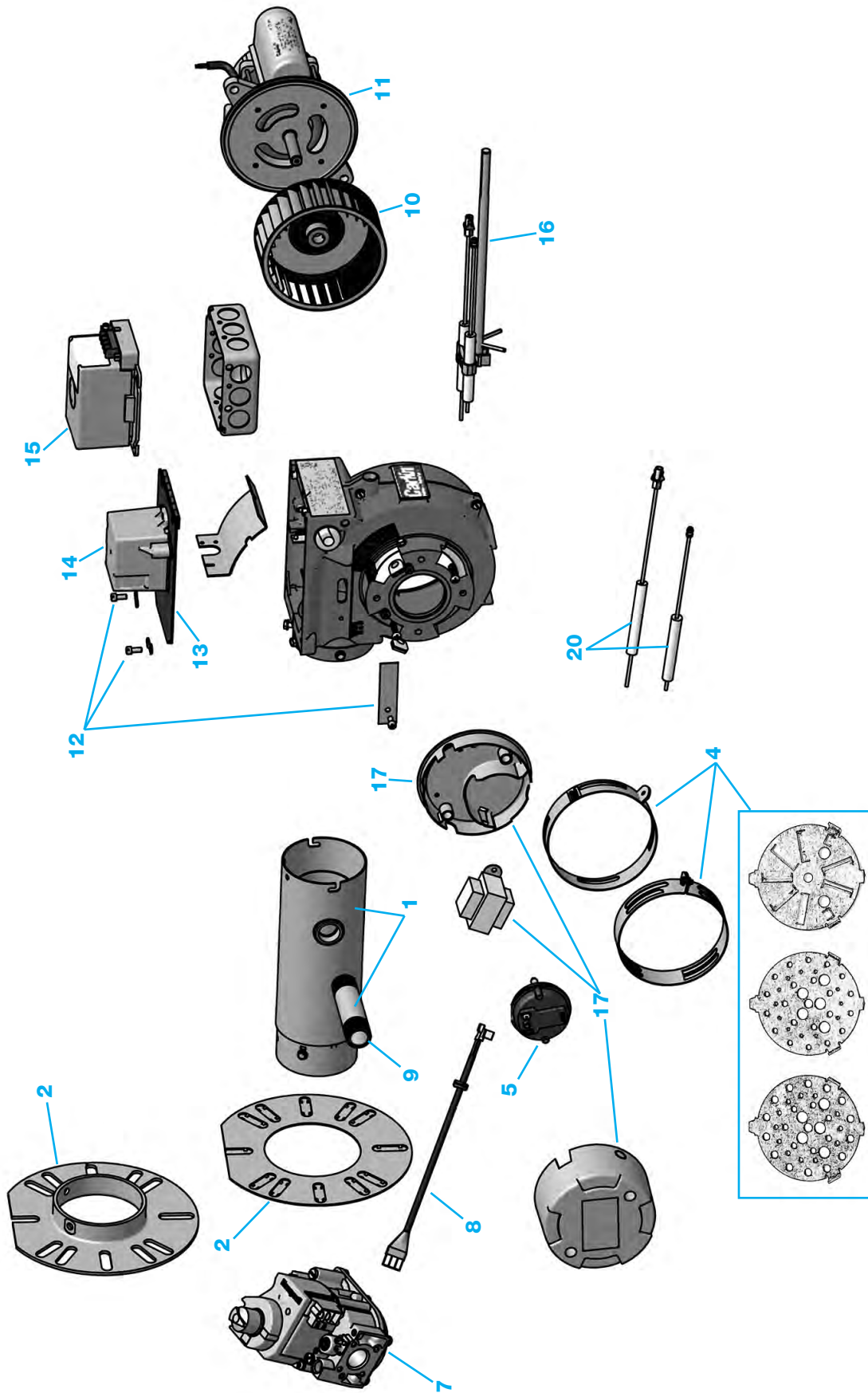
*Note: Parts may not be exactly as shown in diagram.*

\*4 includes selected air tube and combustion head assembly  
 †6 includes multiple parts    \*\*22 includes multiple parts



| ITEM      | PART NO.                  | DESCRIPTION   | 801CRD | 1050FFD | 1150FFD |
|-----------|---------------------------|---|--------|---------|---------|
| 1         | 27730S                    | Motor: 3/4HP 115/208-230V 60HZ, 1 Phase, 3450 RPM   | •      |         |         |
|           | 27748S                    | Motor: 3/4HP 115/208-230V 60HZ, 3 Phase, 3450 RPM   | •      |         |         |
|           | 27516S                    | Motor: 1HP 115/208-230V 60HZ, 1 Phase, 3450 RPM   |        | •       |         |
|           | 27532S                    | Motor: 1 HP 115/208-230V 60HZ, 3 Phase, 3450 RPM  |        | •       |         |
|           | 27557S                    | Motor: 1-1/2HP 115/208-230V 60HZ, 1 Phase, 3450 RPM   |        | •       |         |
|           | 27565S                    | Motor: 1-1/2HP 115/208-230V 60HZ, 3 Phase, 3450 RPM   |        | •       |         |
| 2         | 98507S                    | Electrode Set of 2, Approx. 9-1/4" OAL  | •      | •       | •       |
| 3         | 56069S                    | Ignition Wire: 9-1/4" OAL, for Nominal 10" Air Tube (2 req'd)                                     | •      |         |         |
|           | 56127S                    | Ignition Wire: 10-1/8" OAL for Nominal 12" Air Tube (2 req'd)                                     | •      |         |         |
|           | 56135S                    | Ignition Wire: 11-5/8" OAL for Nominal 15" Air Tube (2 req'd)                                     | •      |         |         |
|           | 55772S                    | Ignition Wire: 12-1/4" OAL (2 req'd)  | •      | •       | •       |
| 4         | 22756S                    | 801CRD 10" Standard Air Tube/Combustion Head Assy   | •      |         |         |
|           | 22780S                    | 801CRD 12" Standard Air Tube/Combustion Head Assy   | •      |         |         |
|           | 22814S                    | 801CRD 15" Standard Air Tube/Combustion Head Assy   | •      |         |         |
|           | 45328KIT                  | 18-1/2" OAL Air Tube/Combustion Head Assy & Flame Funnel Assy                                     |        | •       |         |
|           | 45344KIT                  | 18-1/2" OAL Air Tube/Combustion Head Assy & Flame Funnel Assy used with UV and Infra-red scanners |        | •       |         |
|           | 45393KIT                  | 15-3/8" OAL Air Tube/Combustion Head Assy & Flame Funnel Assy                                     |        | •       |         |
|           | 45443KIT                  | 15-3/8" OAL Air Tube/Combustion Head Assy & Flame Funnel Assy used with UV and Infra-red scanners |        | •       |         |
|           | 41000S                    | 110V Ignitor  | •      | •       | •       |
| 41000S0LC | 110V Ignitor on Baseplate | •   | •      | •       |         |
| 6         | 41004S                    | Instant Oil Valve 3Z20078TSCV 3 Way   | •      |         |         |
|           | 40600S                    | Instant Oil Valve 3Z20027TSCV 3 Way   | •      |         |         |
|           | 61150KITS                 | Oil Valve Fitting Kit (44580, 29678, 44461 (.047), 44545, 29694)                                  | •      |         |         |
| 7         | 98042S                    | Fuel Unit, 2 Stage, B27A-8260   | •      |         |         |
|           | 98126S                    | Fuel Unit, 2 Stage, B27A-8260, NYC  | •      |         |         |
|           | 23507S                    | Fuel Unit, 2 Stage, J4PB-B1000G   | •      | •       | •       |
|           | 74484S                    | Fuel Unit, 2 Stage, NYC, J4PB-B1000G  | •      | •       | •       |
|           | 74492S                    | Fuel Unit, 2 Stage, NYC, J4PB-B1000G  | •      | •       | •       |
| 8         | 34785KITS                 | Oil line kit (incl. all oil lines)  | •      | •       | •       |
| 9         | 98229S                    | Coupling: 1/2" ID x 5/16" ID x 6-1/2" L, B Pump   | •      |         |         |
|           | 28779S                    | Coupling: 1/2" ID x 7/16" ID x 5-13/16" L, H or J Pump  | •      |         |         |
| 10        | 58032S                    | 10" Nominal 22-1/4" OAL Combustion Head Assy  | •      |         |         |
|           | 58081S                    | 12" Nominal 24-1/4" OAL Combustion Head Assy  | •      |         |         |
|           | 58123S                    | 15" Nominal 27-1/4" OAL Combustion Head Assy  | •      |         |         |
|           | 51961S                    | Standard 27-1/2" OAL Combustion Head Assy   |        | •       |         |
|           | 52019S                    | Standard 27-1/2" OAL Combustion Head Assy   |        | •       |         |
| 11        | 28548S                    | Blower Wheel/Fan: 7" OD x 5 W, 5/8" Bore  | •      | •       | •       |
|           | 28555S                    | Blower Wheel/Fan: 7-5/8" OD x 5" W, 5/8" Bore   | •      | •       | •       |

| ITEM  | PART NO.  | DESCRIPTION  | 801CRD | 1050FFD | 1150FFD |
|---|-----------|--|--------|---------|---------|
| 12  | 23283S    | 5" Universal Flange & Gasket   | •      | •       | •       |
|   | 23218S    | 5" Pressure Flange & Gasket  | •      | •       | •       |
|   | 59576S    | 5" Pressure Flange & Gasket – For use with Ultra Violet Control        | •      |         |         |
|   | 59550S    | Flange/Gasket for use with Ultra Violet Control                        |        | •       |         |
|   | 59592S    | Flange/Gasket for Forced Draft   |        | •       | •       |
|   | 59618S    | Flange/Gasket for use with Ultra Violet Control                        |        | •       | •       |
| 13  | 23382S    | Pedestal w/ hardware   | •      | •       | •       |
| 14  | 1440750ES | Cad Cell Kit   | •      | •       | •       |
| 15  | 56812S    | Retention Ring Assy 801CRD   | •      |         |         |
|   | 55210S    | Retention Ring Assy 1050FFD  |        | •       |         |
|   | 55269S    | Retention Ring Assy 1150FFD  |        | •       | •       |
| 16  | 70200S    | Universal Primary W/ Display 70200*                                    | •      | •       | •       |
|   | 4020002S  | Model 40200 Primary 30/15/30*  | •      | •       | •       |
|   | 5020002S  | Model 50200 Primary 30/15/30*  | •      | •       | •       |
|   | 6020002S  | Model 60200 Primary 15/15/15*  | •      | •       | •       |
|   | 99822S    | EMX43UV – Control Set Honeywell RM7840L                                | •      | •       | •       |
|   | 99822CS   | EMX43UVSC – Control Set Honeywell RM7840L                              | •      | •       | •       |
| *Cannot use on burners firing 20GPH or greater              |           |  |        |         |         |
| 17  | 35808S    | Damper Motor – M436A   | •      | •       | •       |
| 18  | 35824S    | Motor Contactor 20 AMP R4242B1005                                      | •      |         |         |
|   | 35840S    | Motor Contactor 30 AMP R4243B1004                                      | •      | •       | •       |
| 19  | 22889S    | Damper Motor Linkage Kit   | •      | •       | •       |
| 20  | 48504S    | Air Shutter Assembly**   | •      | •       | •       |
| **Includes 48405S & 50252S and all components to adjust air |           |  |        |         |         |
| 21  | 35881S    | Air Flow Switch Kit  |        | •       | •       |
| 22  | 81150KITS | Hardware Kit (includes 54916,47167,29728,29892)                        | •      | •       | •       |
| 23  | 97203S    | Auxiliary Switch Damper Motor 0607B-1067 & Shaft Extension (not shown) |        | •       | •       |
| 24  | 61820S    | Spacer 4" Long   |        | •       |         |
|   | 61838S    | Spacer 5" Long   |        | •       |         |
|   | 61846S    | Spacer 6" Long   |        | •       |         |
|   | 61853S    | Spacer 7" Long   |        | •       |         |
|   | 61861S    | Spacer 8" Long   |        | •       |         |
|   | 61879S    | Spacer 4" Long   |        | •       | •       |
|   | 61887S    | Spacer 5" Long   |        | •       | •       |
|   | 61895S    | Spacer 6" Long   |        | •       | •       |
|   | 61903S    | Spacer 7" Long   |        | •       | •       |
|   | 61911S    | Spacer 8" Long   |        | •       | •       |



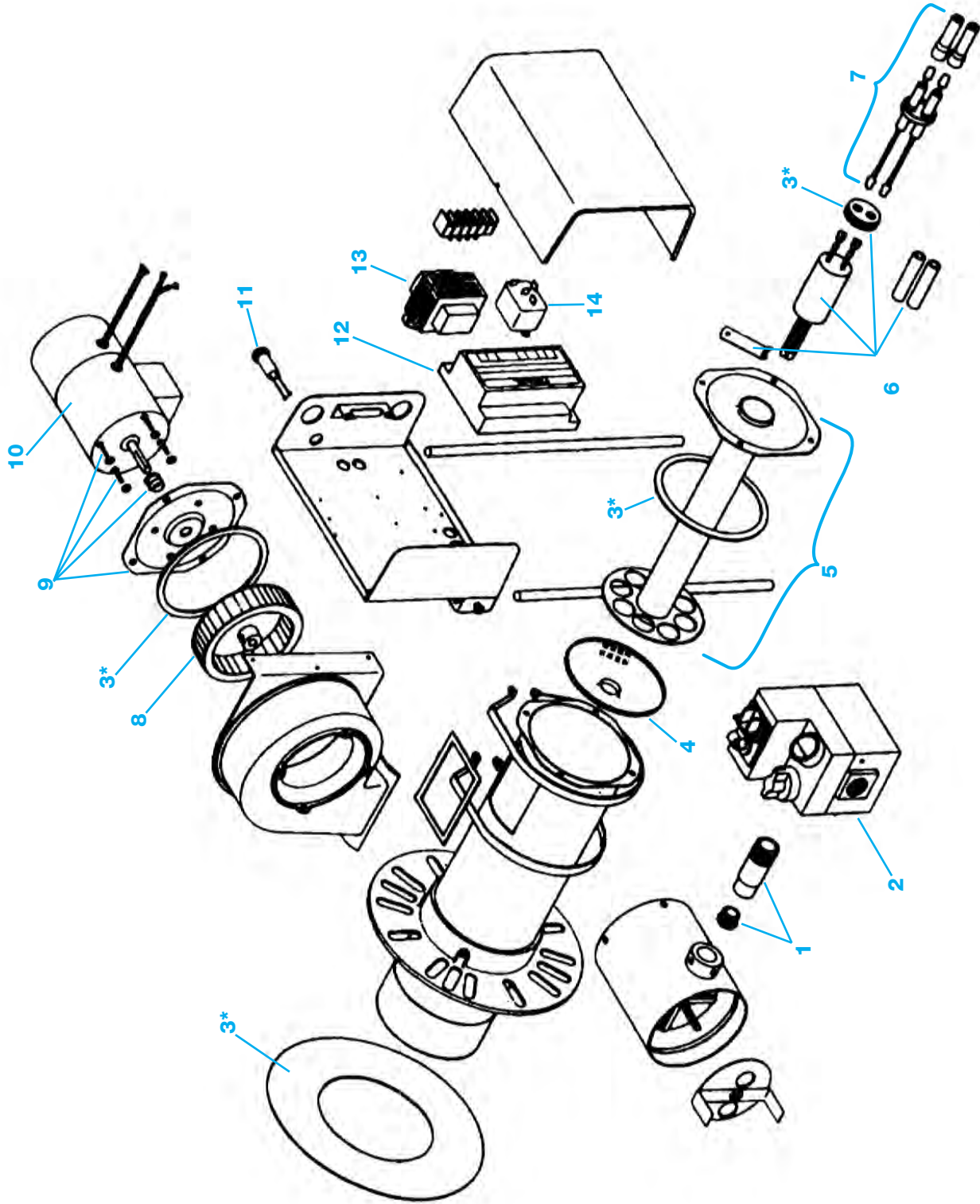
**EZGas Pro Burners**

Note: Parts may not be exactly as shown in diagram.

| ITEM | PART NO.     | DESCRIPTION   |
|------|--------------|---|
| 10   | 77933S       | Blower wheel  |
| 11   | 98629S       | Motor PSC 1/15HP  |
|      | 98022S       | Motor PSC 1/6HP (Can be used on gas same as oil)              |
| 12   | 98282AS      | Hardware kit for EZGAS/EZGAS PRO                              |
| 13   | 98498S       | Hinged cover plate for Ignitor                                |
| 14   | 4180002S1    | Ignitor for EZGAS & EZGAS PRO                                 |
| 15   | 602002FR363S | Primary Control Microprocessor Flame Rod                      |
|      | 98572AS      | Ignitor electrode/flame rod assembly 10"                      |
| 16   | 98572BS      | Ignitor electrode/flame rod assembly 12"                      |
|      | 98572CS      | Ignitor electrode/flame rod assembly 14"                      |
|      | 98572DS      | Ignitor electrode/flame rod assembly 16"                      |
|      | 98572ES      | Ignitor electrode/flame rod assembly 18"                      |
| 17   | 50822S       | Transformer EZGAS PRO   |
| 18   | GPROT0TES    | EZGAS PRO Burner Service kit Tote for PRO burners (not shown) |
|      | EZGAST0TES   | EZGAS Burner Service kit Tote for 120V burners (not shown)    |
| 19   | 99017S       | Test Kit – Includes FR Test Jack & Spark Tester (not shown)   |
| 20   | 50873AS      | Electrode/ Flame Rod for 10" EZGAS                            |
|      | 50873BS      | Electrode/ Flame Rod for 12" EZGAS                            |
|      | 50873CS      | Electrode/ Flame Rod for 14" EZGAS                            |
|      | 50873DS      | Electrode/ Flame Rod for 16" EZGAS                            |
|      | 50873ES      | Electrode/ Flame Rod for 18" EZGAS                            |
| 21   | EZGFRWIRES   | EZGas Flame Rod Wire (not shown)                              |

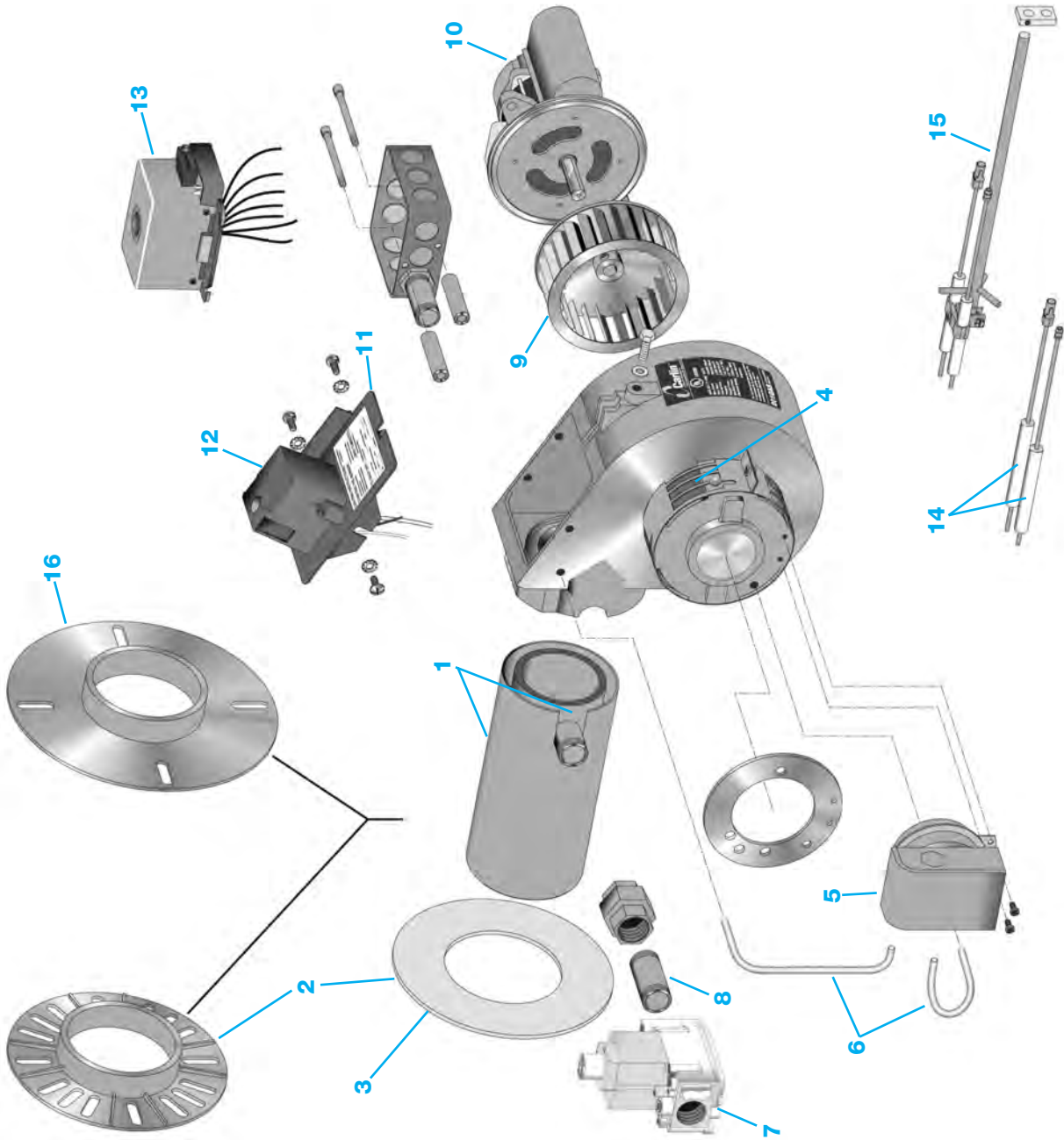
NOTE: EZGas Service Kit Totes – see page 64

| ITEM | PART NO.   | DESCRIPTION  |
|------|------------|--|
| 1    | 99392AKITS | 10" Air Tube Kit, A Diffuser w/ Field Drilled Orifice                  |
|      | 99392BKITS | 10" Air Tube Kit, B Diffuser w/ Field Drilled Orifice                  |
|      | 99392CKITS | 10" Air Tube Kit, 9-Slot Diffuser w/ Field Drilled Orifice             |
|      | 99392DKITS | 12" Air Tube Kit, A Diffuser w/ Field Drilled Orifice                  |
|      | 99392EKITS | 12" Air Tube Kit, B Diffuser w/ Field Drilled Orifice                  |
|      | 99392FKITS | 12" Air Tube Kit, 9-Slot Diffuser w/ Field Drilled Orifice             |
|      | 99392GKITS | 14" Air Tube Kit, A Diffuser w/ Field Drilled Orifice                  |
|      | 99392HKITS | 14" Air Tube Kit, B Diffuser w/ Field Drilled Orifice                  |
|      | 99392NKITS | 14" Air Tube Kit, 9-Slot Diffuser w/ Field Drilled Orifice             |
|      | 99392SKITS | 16" Air Tube Kit, A Diffuser w/ Field Drilled Orifice                  |
| 2    | 50833AS    | Flange/Gasket Kit  |
|      | 50821AS    | Gasket Kit – Includes 50821 & GSKTKIT1 (not shown)                     |
| 3    | 50808KITS  | Full Firing Rate Kit – A, B & 9S Diffuser + 2 Airbands                 |
| 4    | 98522S     | Air Flow Switch 120 Volt   |
|      | 50806S     | Air Flow Switch 24 Volt  |
| 5    | 98554S     | Blower sensing lines kit – Only used on EZGAS 120V version (not shown) |
| 6    | 50824S     | Gas valve 24 volt  |
|      | 98523S     | Gas valve 120 volt   |
| 7    | 50819AS    | Gas valve power harness (EZGas Pro only)                               |
| 8    | 9938440XX  | Field drilled orifice  |



| ITEM | PART NO.  | DESCRIPTION                               |
|------|-----------|---|
| 8    | 28613S    | Blower Wheel                              |
| 9    | 51060S    | Motor Mounting Ring with bushing          |
| 10   | 27789S    | Burner Motor 1/50HP                       |
| 11   | 33936S    | Indicator Light                           |
| 12   | 99564KITS | Control Honeywell S89C                    |
| 13   | 24315S    | Transformer 40 VA rating 115-volt Primary |
| 14   | 35782S    | Motor Relay – 24V coil, SPST              |

| ITEM | PART NO. | DESCRIPTION                                  |
|------|----------|--|
| 1    | 61663S   | Orifice Kit (Includes 60582 and 61663)       |
| 2    | 41053S   | Gas Valve 24 Volt                            |
| 3    | 40360S   | Gasket kit (Includes 40287, 40360 & 2-40402) |
| 4    | 57117S   | Flameholder                                  |
| 5    | 97875S   | Ignition Tube Assembly with Gasket 6"        |
|      | 97876S   | Ignition Tube Assembly with Gasket 9"        |
|      | 97877S   | Ignition Tube Assembly with Gasket 12"       |
| 6    | 87197S   | Hot Surface Ignitor Assembly                 |
| 7    | 46631S   | Rear Ignitor assembly with boots 6"          |
|      | 46656S   | Rear Ignitor assembly with boots 9"          |
|      | 46615S   | Rear Ignitor assembly with boots 12"         |



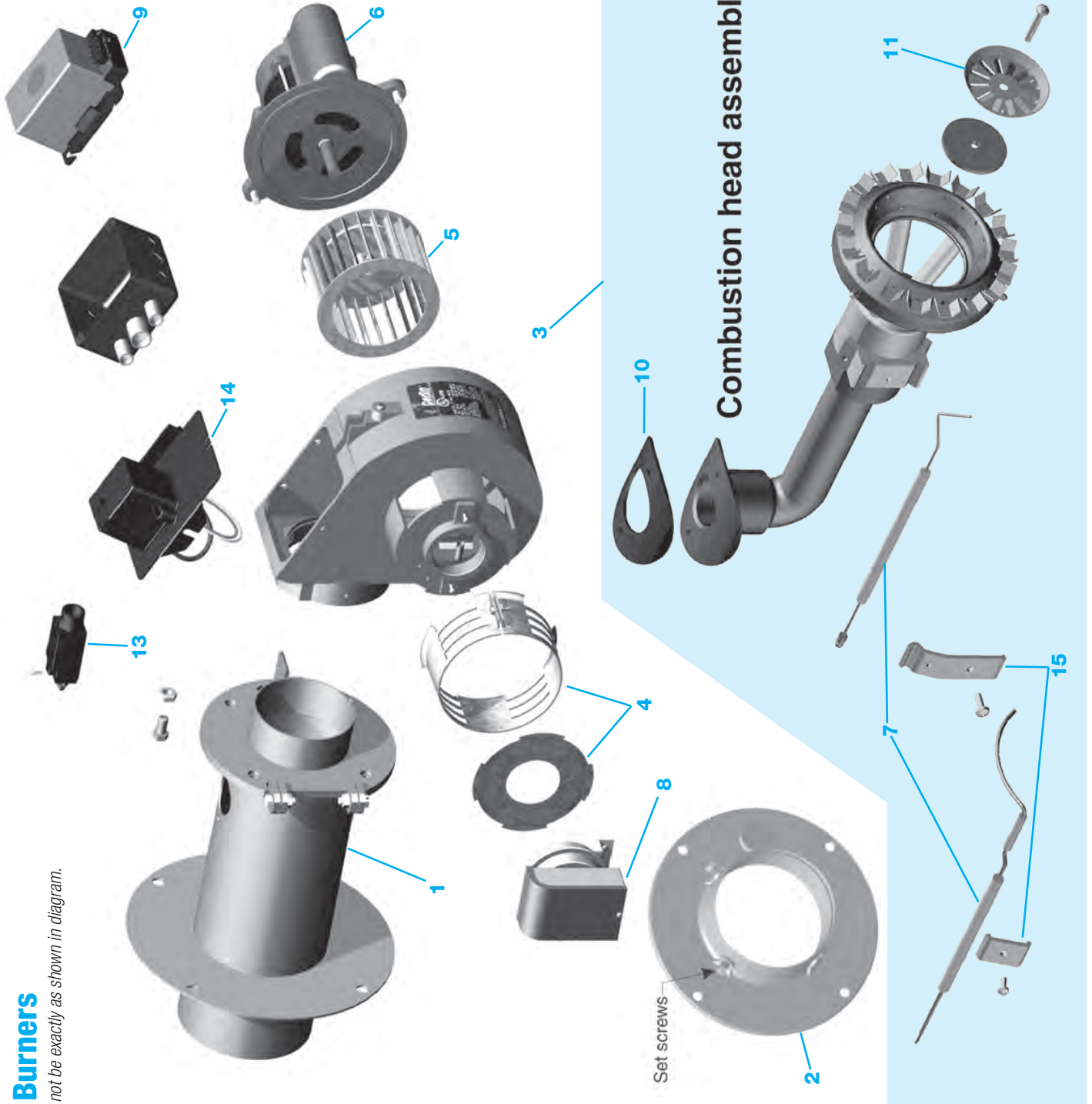


| ITEM | PART NO.      | DESCRIPTION  |
|------|---------------|--|
| 10   | 98611S        | Motor 1/6HP 120V 60Hz, 48N Frame                       |
|      | 98630S        | Motor 1/4HP 120V 60Hz, 48N Frame (used on oil 201/301) |
| 11   | 98534S        | Hinged cover plate for Ignitor                         |
| 12   | 4180002S2     | Ignitor for 201GAS                                     |
| 13   | 6020002FR363S | Primary Control Microprocessor Flame Rod               |
| 14   | 98433AS       | Ignitor electrode/flame rod 8"                         |
|      | 98433BS       | Ignitor electrode/flame rod 10"                        |
|      | 98433CS       | Ignitor electrode/flame rod 12"                        |
|      | 98433DS       | Ignitor electrode/flame rod 14"                        |
|      | 98433ES       | Ignitor electrode/flame rod 16"                        |
| 15   | 98540AS       | Ignitor electrode/flame rod assembly 8"                |
|      | 98540BS       | Ignitor electrode/flame rod assembly 10"               |
|      | 98540CS       | Ignitor electrode/flame rod assembly 12"               |
|      | 98540DS       | Ignitor electrode/flame rod assembly 14"               |
|      | 98540ES       | Ignitor electrode/flame rod assembly 16"               |
| 16   | 59444BLUS     | Optional forced draft flange                           |
| 17   | 20GFRWIRES    | 201GAS Flame Rod Wire (not shown)                      |

| ITEM | PART NO.    | DESCRIPTION   |
|------|-------------|---|
| 1    | 98514AAKITS | 8" Air Tube w/ A Diffuser & Gas Can                   |
|      | 98514ABKITS | 8" Air Tube w/ B Diffuser & Gas Can                   |
|      | 98514BAKITS | 10" Air Tube w/ A Diffuser & Gas Can                  |
|      | 98514BBKITS | 10" Air Tube w/ B Diffuser & Gas Can                  |
|      | 98514CAKITS | 12" Air Tube w/ A Diffuser & Gas Can                  |
|      | 98514CBKITS | 12" Air Tube w/ B Diffuser & Gas Can                  |
|      | 98514DAKITS | 14" Air Tube w/ A Diffuser & Gas Can                  |
|      | 98514DBKITS | 14" Air Tube w/ B Diffuser & Gas Can                  |
| 2    | 98514EAKITS | 16" Air Tube w/ A Diffuser & Gas Can                  |
|      | 98514EBKITS | 16" Air Tube w/ B Diffuser & Gas Can                  |
| 2    | 59642BLUS   | Flange/Gasket kit for 201GAS                          |
| 3    | 40287S      | Gasket for Flange only                                |
| 4    | 98542S      | Air Band 2 Slot for 201Gas and 202Gas                 |
|      | 47001S      | Air Band 4 Slot for 201Gas, 202Gas                    |
| 5    | 98521KITS   | Airflow switch and mounting plate assembly for 201Gas |
| 6    | 98557S      | Blower sensing line kit inlet and outlet              |
| 7    | 98523S      | Gas valve VP4305M-4540 for EZGAS and 201Gas           |
| 8    | 9938440XX   | Field drilled orifice for EZGASPRO, EZGAS & 201GAS    |
| 9    | 28563S      | Blower wheel (used on 201/301 Oil and Gas)            |

54 **301Gas Burners**

Note: Parts may not be exactly as shown in diagram.

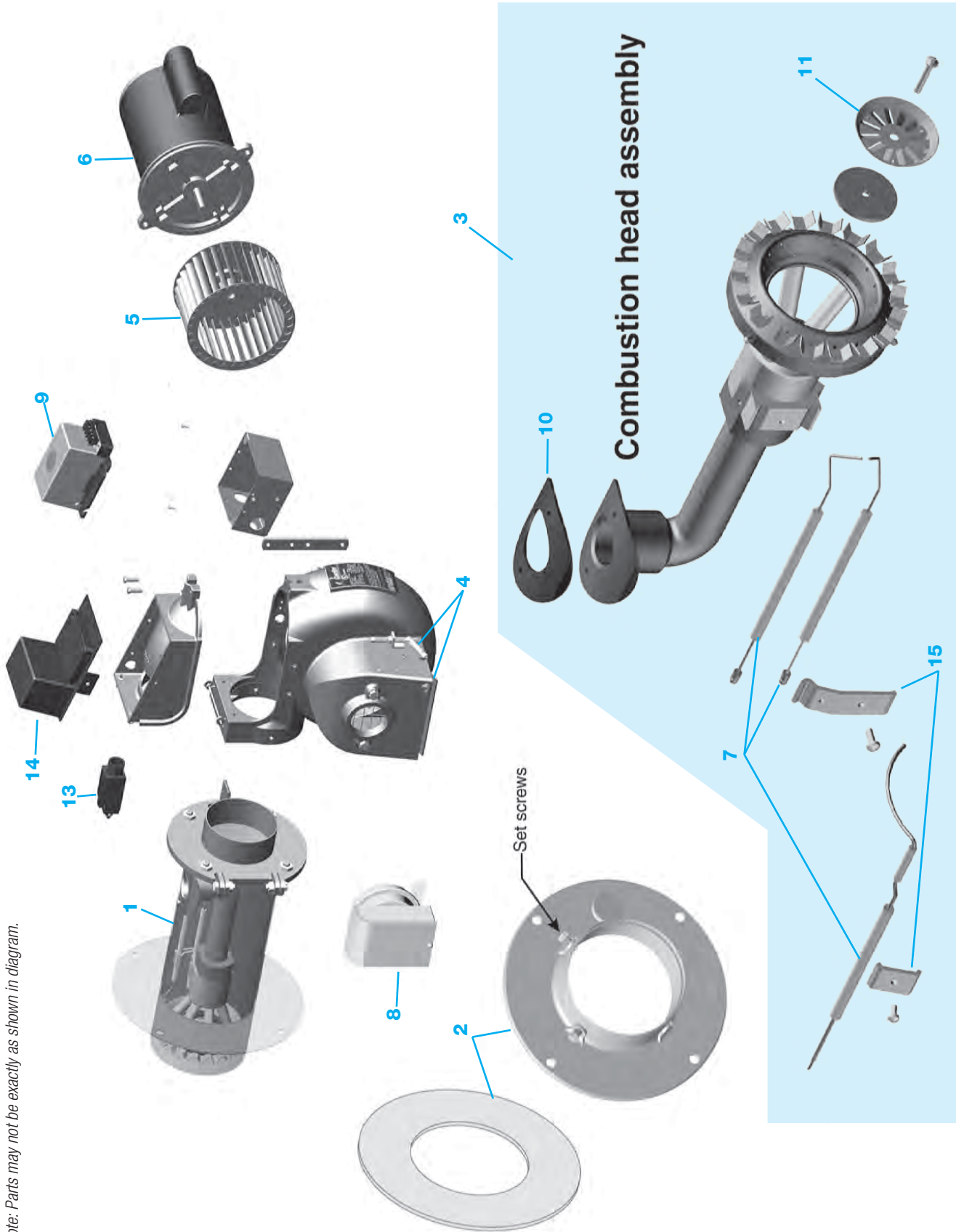




| ITEM | PART NO.  | DESCRIPTION   |
|------|-----------|---|
| 1    | 99259S    | 301/601 Gas Airtube 1 4" B , 1" inlet for rates 401,000 to 700,000 BTU's.   |
|      | 99189S    | 301/601 Gas Airtube 1 4" C , 1" inlet for rates 550,000 to 1,100,000 BTU's. |
| 2    | 99225KITS | Flange/Gasket kit for 301GAS/601 GAS  |
| 3    | 99164S    | Combustion Head Assembly "B" Head   |
|      | 99277S    | Combustion Head Assembly "C" Head   |
| 4    | 99254S    | Airband/Air Shutter Kit   |
| 5    | 28563S    | Blower wheel/ fan   |
| 6    | 98611S    | Motor 1/6HP, 120V, 60HZ , 48N Frame   |
| 7    | 99158S    | Ignition Electrode/Flame Rod 301 GAS  |

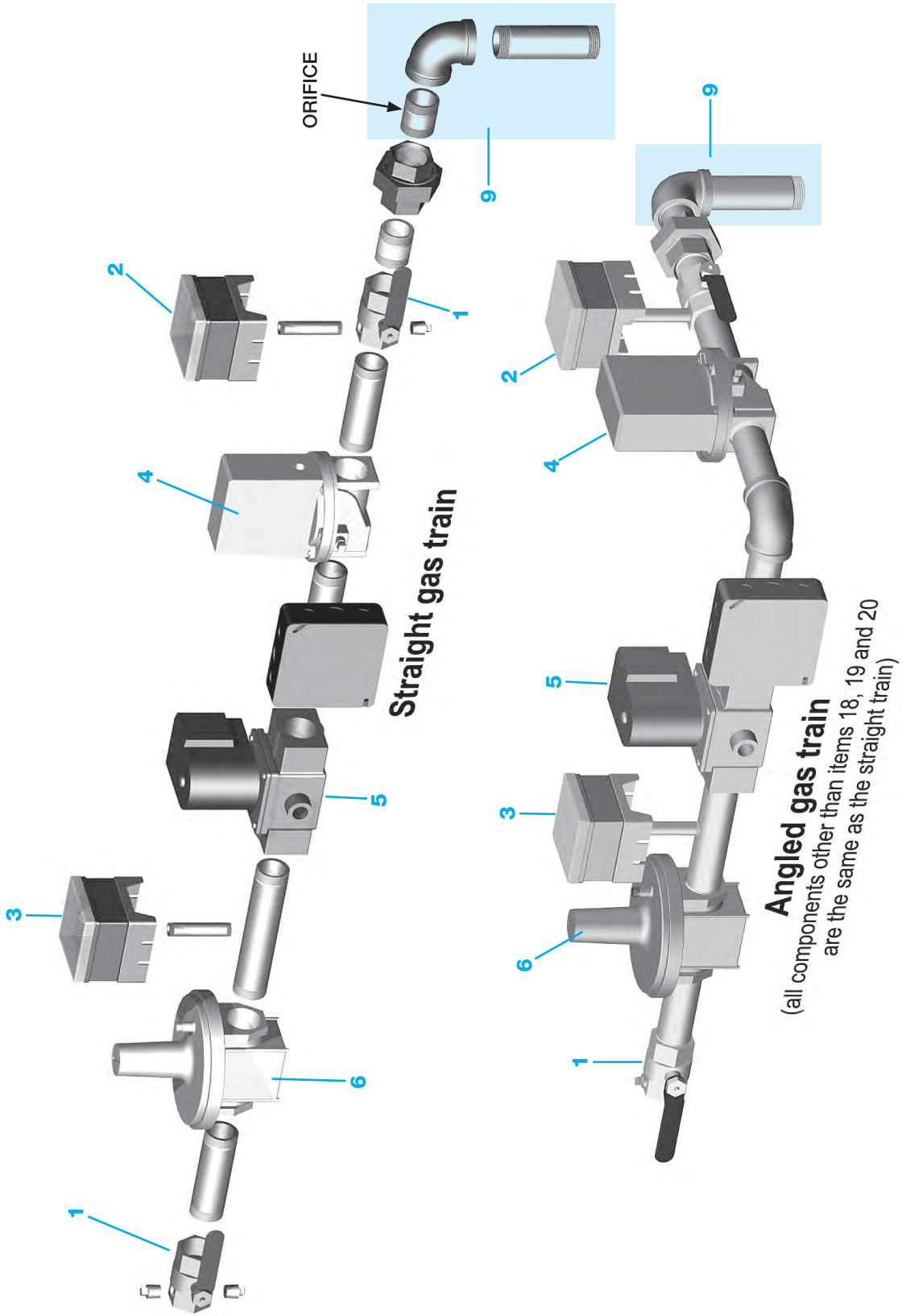
| ITEM | PART NO.    | DESCRIPTION  |
|------|-------------|--|
| 8    | 98521KITS   | Airflow switch and mounting plate assembly for 201/301/601 GAS |
| 9    | 60200FR943S | Primary Control Microprocessor Flame Rod                       |
| 10   | 99260S      | Gasket Kit (Includes 40253, 99260, 99430)                      |
| 11   | 99162S      | Retention Ring Assy  |
| 12   | 30GFRWIRES  | Flame Rod Wire 24" for 301/601Gas (not shown)                  |
| 13   | 99261KITS   | Door Interlock Switch and Mounting Screws                      |
| 14   | 4180002S    | Ignitor for 301 GAS  |
| 15   | 99153KITS   | Electrode/Flame Rod Bracket assembly                           |

*Note: Parts may not be exactly as shown in diagram.*



| ITEM | PART NO.  | DESCRIPTION   |
|------|-----------|---|
| 1    | 99259S    | 301/601 Gas Airtube 14" B, 1" inlet for rates 401,000 to 700,000 BTU'S.   |
|      | 99189S    | 301/601 Gas Airtube 14" C, 1" inlet for rates 550,000 to 1,100,000 BTU'S. |
|      | 99507S    | 601 Gas Airtube 14" D, 1-1/4" INLET, 900,000 TO 1,500,000 BTU'S           |
| 2    | 99225KITS | Flange/Gasket kit for 301GAS/601 GAS                                      |
| 3    | 99294S    | 11" Combustion Head Assembly  |
|      | 99535S    | 12" Combustion Head Assembly  |
|      | 99295S    | 21" Combustion Head Assembly  |
|      | 99536S    | 22" Combustion Head Assembly  |
|      | 99532S    | 31" Combustion Head Assembly  |
|      | 99516S    | 32" Combustion Head Assembly  |
| 4    | 47407S    | Air Shutter Kit   |
| 5    | 98857S    | Blower wheel/fan  |
| 6    | 27706S    | Motor 1/2HP 115/230V 60Hz, 1PH  |

| ITEM | PART NO.    | DESCRIPTION   |
|------|-------------|---|
| 7    | 99292S      | Ignition Electrode/Flame Rod 601 GAS (Includes 99292, 99293, 99161) |
| 8    | 98521KITS   | Airflow switch and mounting plate assembly for 201/301/601 GAS      |
| 9    | 60200FR943S | Primary Control Microprocessor Flame Rod                            |
| 10   | 99260S      | Gasket Kit (Includes 40253, 99260, 99430)                           |
| 11   | 99162S      | Retention Ring Assy   |
| 12   | 30GFRWIRES  | Flame Rod Wire 24" for 301/601 Gas (not shown)                      |
|      | 99477S      | Ignition Wire 14-1/2" (not shown)                                   |
| 13   | 99261KITS   | Door Interlock Switch and Mounting Screws                           |
| 14   | 41000SOLCS  | Ignitor for 601 Gas w/Baseplate                                     |
| 15   | 99153KITS   | Electrode/Flame Rod Bracket assembly (Includes 99153 & 99155)       |

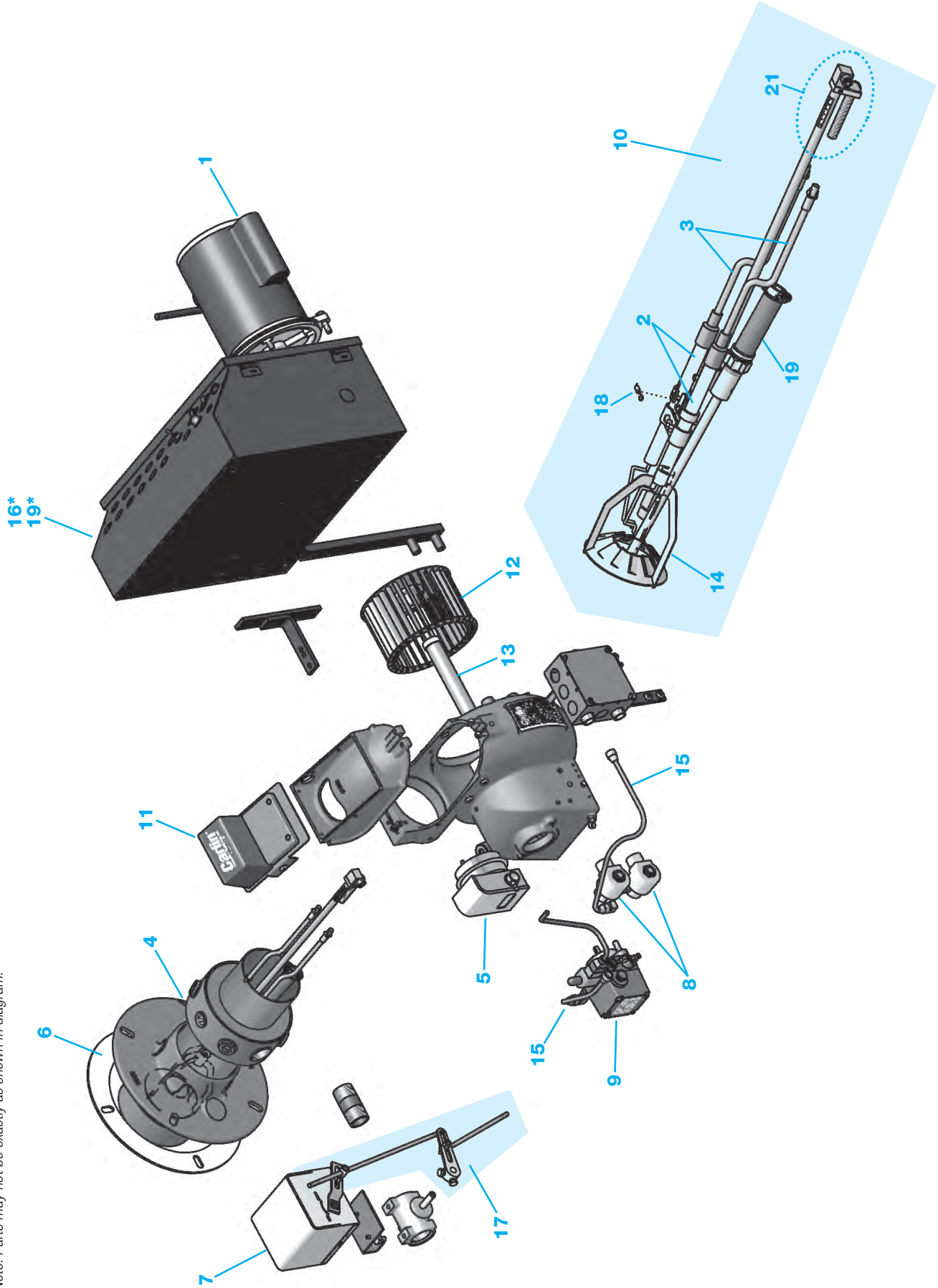


| ITEM | PART NO. | DESCRIPTION  | 301 GAS | 601 GAS |
|------|----------|--|---------|---------|
| 1    | 99225S   | Manual Gas Shutoff 1" NPT  | •       | •       |
|      | 99245S   | Manual Gas Shutoff 1-1/4" NPT  | •       | •       |
|      | 99246S   | Manual Gas Shutoff 1-1/2" NPT  | •       | •       |
|      | 99926S   | Manual Gas Shutoff 2" NPT  | •       | •       |
| 2    | 99235S   | High gas pressure switch   | •       | •       |
| 3    | 99234S   | Low Gas pressure switch  | •       | •       |
|      | 99227S   | Primary Gas Valve, Honeywell 48A 2169 1" NPT w/ bleed restrictor         | •       | •       |
|      | 99434S   | Primary Gas Valve, Honeywell 48A 2177 1-1/4" NPT w/ bleed restrictor     | •       | •       |
|      | 99343AS  | Primary Gas Valve, Honeywell V48A.2185 1-1/2" NPT w/ bleed restrictor    | •       | •       |
|      | 99434BS  | Primary Gas Valve, Honeywell 48A 2243 2" NPT w/ bleed restrictor         | •       | •       |
| 4    | 99796AS  | Primary Gas Valve Honeywell V4944N-1011 1" NPT MASS CODE Natural Gas     | •       | •       |
|      | 99796BS  | Primary Gas Valve Honeywell V4944N-1029 1-1/4" NPT MASS CODE Natural Gas | •       | •       |
|      | 99796ES  | Primary Gas Valve Honeywell V4944N-1037 1-1/2" NPT MASS CODE Natural Gas | •       | •       |
|      | 99796FS  | Primary Gas Valve Honeywell V4944N-1045 2" NPT MASS CODE Natural Gas     | •       | •       |
|      | 99796CS  | Primary Gas Valve Honeywell V4944L-1016 1" NPT MASS CODE Propane Gas     | •       | •       |
|      | 99796DS  | Primary Gas Valve Honeywell V4944L-1024 1-1/4" NPT MASS CODE Propane Gas | •       | •       |

| ITEM | PART NO.   | DESCRIPTION   | 301 GAS | 601 GAS |
|------|------------|---|---------|---------|
| 5    | 99229S     | Secondary Gas Valve Honeywell V4295A 1031 - 1" NPT            | •       | •       |
|      | 99435S     | Secondary Gas Valve Honeywell V4295A 1049 - 1-1/4" NPT        | •       | •       |
|      | 99435AS    | Secondary Gas Valve Honeywell V4295A 1056 - 1-1/2" NPT        | •       | •       |
|      | 99435BS    | Secondary Gas Valve Honeywell V4295A 1064 - 2" NPT            | •       | •       |
| 6    | 99233S     | Gas Pressure Regulator 1" NPT Maxitrol RV-61                  | •       | •       |
|      | 99432S     | Gas Pressure Regulator 1-1/4" NPT Maxitrol RV-81              | •       | •       |
|      | 99432AS    | Gas Pressure Regulator 1-1/2" NPT Maxitrol RV-81              | •       | •       |
|      | 99432BS    | Gas Pressure Regulator 2" NPT Maxitrol RV-91                  | •       | •       |
| 7    | 99957S     | Time Delay relay 8-second (Mounted to gas train junction box) | •       | •       |
| 8    | 99415S     | Spring Kit (Includes 99759 & 99415)                           | •       | •       |
| 9    | 9925020XX  | Gas Orifice pilot hole for field drill 7/32" - 1" NPT         | •       | •       |
|      | 9947620XX  | Gas Orifice pilot hole for field drill 9/32" - 1-1/4" NPT     | •       | •       |
|      | 99250KIT1S | Orifice 7/32 & 3" Elbow Kit                                   | •       | •       |
|      | 99476KIT1S | Orifice 9/32 & 3" Elbow Kit                                   | •       | •       |

**60 702G & 702G/O Burners**

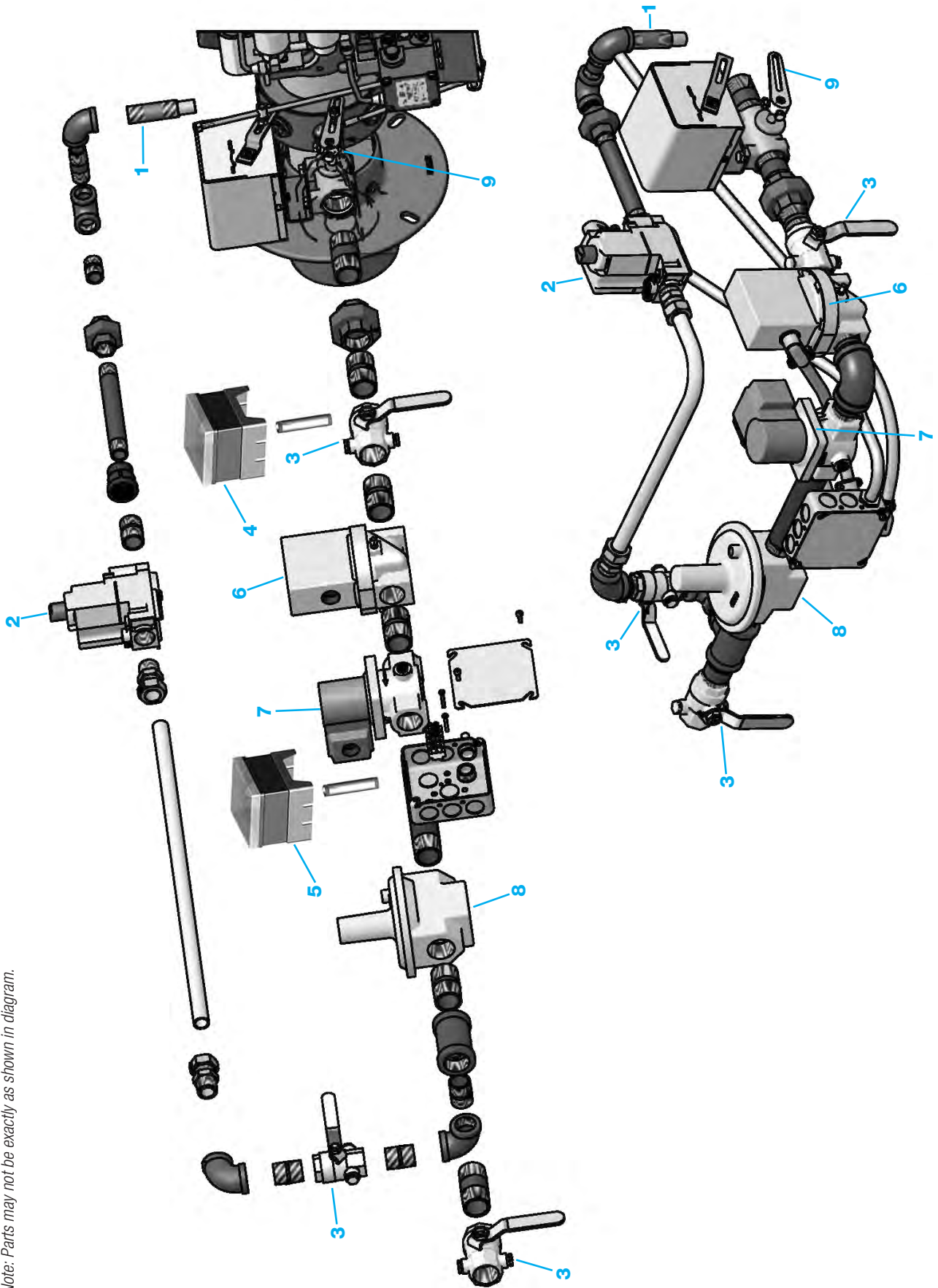
*Note: Parts may not be exactly as shown in diagram.*



| ITEM | PART NO.   | DESCRIPTION  | 702Gas | 702G/O |
|------|------------|--|--------|--------|
| 13   | 98856S     | Coupling 1/2" ID x 5/16" ID x 6-13/16" L, B Pump                     | •      | •      |
| 14   | 56747S     | Retention Ring Assy 702CRD   | •      | •      |
| 15   | 75291S     | Oil line kit (75358S, 75291S)  | •      | •      |
| 16   | 35824S     | Motor Contactor 20 AMP R4242B1005 (not shown)                        | •      | •      |
| 17   | 22889S     | Damper Motor Linkage Kit   | •      | •      |
| 18   | 34215S     | Thermal fuse   | •      | •      |
| 19   | 35311S     | C7027A1023 UV Scanner  | •      | •      |
|      | 97656S     | Q7800B1003 Sub Base  | •      | •      |
|      | 99766S     | RM7897C1000 Programming Control                                      | •      | •      |
|      | 97662S     | R7849A1023 Amplifier   | •      | •      |
|      | 97716S     | ST7800A1054 Timing Card  | •      | •      |
|      | EMX15UVS   | EMX15UV KIT includes all of the above                                | •      | •      |
| 20   | 23382REDS  | Pedestal (not shown)   |        | •      |
|      | 23382BLU1S | Pedestal (not shown)   | •      |        |
| 21   | 6702KITS   | Hardware Kit (Yoke 54916, C/H adj screw 47167, oil line elbow 29694) | •      | •      |

| ITEM | PART NO.  | DESCRIPTION   | 702Gas | 702G/O |
|------|-----------|---|--------|--------|
| 1    | 27706S    | Motor: 1/2 hp, 115/230V, 60HZ, 1 Phase, 3450 rpm                        | •      | •      |
| 2    | 98507S    | Electrode Set of 2, Approx. 9-1/4" OAL                                  | •      | •      |
| 3    | 55772S    | Ignition wire – One wire in Service Pack (2 Req'd)                      | •      | •      |
| 4    | 99541S    | 14" Tube with pressurized flange 1" main gas inlet; 1/2" pilot inlet    | •      | •      |
| 5    | 98522S    | Air Flow Switch 120 Volt  | •      | •      |
| 6    | 40246S    | Gasket  | •      | •      |
| 7    | 35808S    | Damper Motor – M436A  | •      | •      |
| 8    | 40857S    | Instant Oil Valve 3Z20071TSCV   | •      |        |
|      | 41004S    | Instant Oil Valve 3Z20078TSCV 3 Way                                     | •      |        |
|      | 61150KITS | Oil Valve Kit (44560, 29678, 44461, 29728, 44545)                       | •      |        |
| 9    | 23556S    | Suntec, 2 Stage, B2TA-8851  |        | •      |
|      | 74476S    | Suntec, 2 Stage, NYC, B2TA-8851 100/300PSI                              |        | •      |
| 10   | 57810S    | 14" Combustion Head Assembly (includes thermal fuse and electrode wire) | •      | •      |
| 11   | 41000S    | Ignitor   | •      | •      |
|      | 41000SOLC | Ignitor on Baseplate  | •      | •      |
| 12   | 98857KITS | Blower Wheel, Coupling, Augmentor, 6-1/2" OD x 3-3/4" W, 1/2" Bore      | •      | •      |





**62 702G & 702G/O Train**

*Note: Parts may not be exactly as shown in diagram.*



| ITEM | PART NO. | DESCRIPTION   | 702Gas | 702G/O |
|------|----------|---|--------|--------|
| 1    | 73007S   | Orifice nipple assembly Natural Gas                                   | •      | •      |
|      | 73007AS  | Orifice nipple assembly Propane Gas                                   | •      | •      |
| 2    | 98523S   | Pilot Gas valve 120 volt  | •      | •      |
| 3    | 99455S   | Manual Gas Shutoff 3/4" NPT   | •      | •      |
|      | 99225S   | Manual Gas Shutoff 1" NPT   | •      | •      |
|      | 99245S   | Manual Gas Shutoff 1-1/4" NPT   | •      | •      |
|      | 99246S   | Manual Gas Shutoff 1-1/2" NPT   | •      | •      |
|      | 99926S   | Manual Gas Shutoff 2" NPT   | •      | •      |
| 4    | 99235S   | High gas pressure switch  | •      | •      |
| 5    | 99234S   | Low Gas pressure switch   | •      | •      |
| 6    | 99227S   | Primary Gas Valve, Honeywell 48A 2169 1" NPT w/ bleed restrictor      | •      | •      |
|      | 99434S   | Primary Gas Valve, Honeywell 48A 2177 1-1/4" NPT w/ bleed restrictor  | •      | •      |
|      | 99434AS  | Primary Gas Valve, Honeywell V48A 2185 1-1/2" NPT w/ bleed restrictor | •      | •      |
|      | 99434BS  | Primary Gas Valve, Honeywell 48A 2243 2" NPT w/ bleed restrictor      |        |        |

| ITEM | PART NO. | DESCRIPTION  | 702Gas | 702G/O |
|------|----------|--|--------|--------|
| 7    | 99229S   | Secondary Gas Valve Honeywell V4295A 1031 – 1" NPT     | •      | •      |
|      | 99435S   | Secondary Gas Valve Honeywell V4295A 1049 – 1-1/4" NPT | •      | •      |
|      | 99435AS  | Secondary Gas Valve Honeywell V4295A 1056 – 1-1/2" NPT | •      | •      |
|      | 99435BS  | Secondary Gas Valve Honeywell V4295A 1064 – 2" NPT     | •      | •      |
| 8    | 99233S   | Gas Pressure Regulator 1" NPT Maxitrol RV-61           | •      | •      |
|      | 99432S   | Gas Pressure Regulator 1-1/4" NPT Maxitrol RV-81       | •      | •      |
|      | 99432AS  | Gas Pressure Regulator 1-1/2" NPT Maxitrol RV-81       | •      | •      |
|      | 99432BS  | Gas Pressure Regulator 2" NPT Maxitrol RV-91           | •      | •      |
| 9    | 99533S   | Butterfly valve and crank arm – Eclipse 48V-A, 1" NPT  | •      | •      |

| Part No. | Description |
|----------|-------------|
|----------|-------------|

**EZGAS PRO BURNER SERVICE KIT TOTE**

*Use for EZGAS PRO Burners*

|           |                                   |
|-----------|-----------------------------------|
| GPROTOTES | EZGas Pro Burner Service Kit Tote |
|-----------|-----------------------------------|

**INCLUDES**

- |  |               |
|--|---------------|
| 1. EZGas Pro Burner Instruction Manual |               |
| 2. 13" Flame Rod Wire                  | EZGFRWIRE     |
| 3. Carlin Ignitor                      | 4180002S      |
| 4. Carlin 60200FR Control              | 6020002FR363S |
| 5. 10" Flame Rod                       | 50874A        |
| 6. 12" Flame Rod                       | 50874B        |
| 7. 14" Flame Rod                       | 50874C        |
| 8. 10" Spark Electrode                 | 50873A        |
| 9. 12" Spark Electrode                 | 50873B        |
| 10. 14" Spark Electrode                | 50873C        |
| 11. Air Flow Switch                    | 50806         |
| 12. Gas Valve                          | 50824         |
| 13. Flame Signal Test Jack             | 99017         |
| 14. Ignitor Spark Tester               | 99305         |
| 15. Orifice Nipple                     | 9938440XX     |
| 16. A Diffuser                         | 50808AS       |
| 17. B Diffuser                         | 50808BS       |
| 18. 9-slot Diffuser                    | 50808DS       |
| 19. 1-slot Airband                     | 50866         |
| 20. 2-slot Airband                     | 50867         |
| 21. Transformer 24V                    | 50822         |



**EZ-GAS BURNER SERVICE KIT TOTE**

*Use for EZGAS Burners*

|            |                                |
|------------|--------------------------------|
| EZGASTOTES | EZ-Gas Burner Service Kit Tote |
|------------|--------------------------------|

**INCLUDES**

- |                                     |               |
|-------------------------------------|---------------|
| 1. EZ-Gas Burner Instruction Manual |               |
| 2. 13" Flame Rod Wire               | EZGFRWIRE     |
| 3. Carlin Ignitor                   | 4180002S      |
| 4. Carlin 60200FR Control           | 6020002FR363S |
| 5. 10" Flame Rod                    | 98434A        |
| 6. 12" Flame Rod                    | 98434B        |
| 7. 10" Spark Electrode              | 98433A        |
| 8. 12" Spark Electrode              | 98433B        |
| 9. Air Flow Switch                  | 98522         |
| 10. Gas Valve                       | 98523         |
| 11. Flame Signal Test Jack          | 99017         |
| 12. Ignitor Spark Tester            | 99305         |
| 13. Orifice Nipple                  | 9938440XX     |

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