

Motor Coach Heating Specialists

# **Parts Manual**

**Model Numbers** 

HHE-200-08E

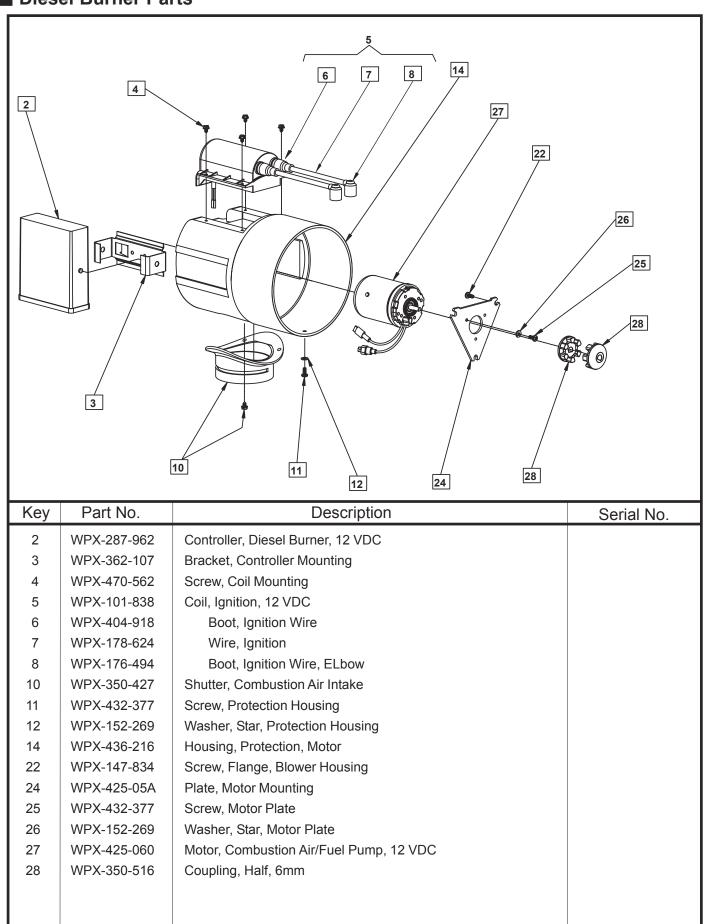
HHE-500-08M

(SN: 03653 to ...)

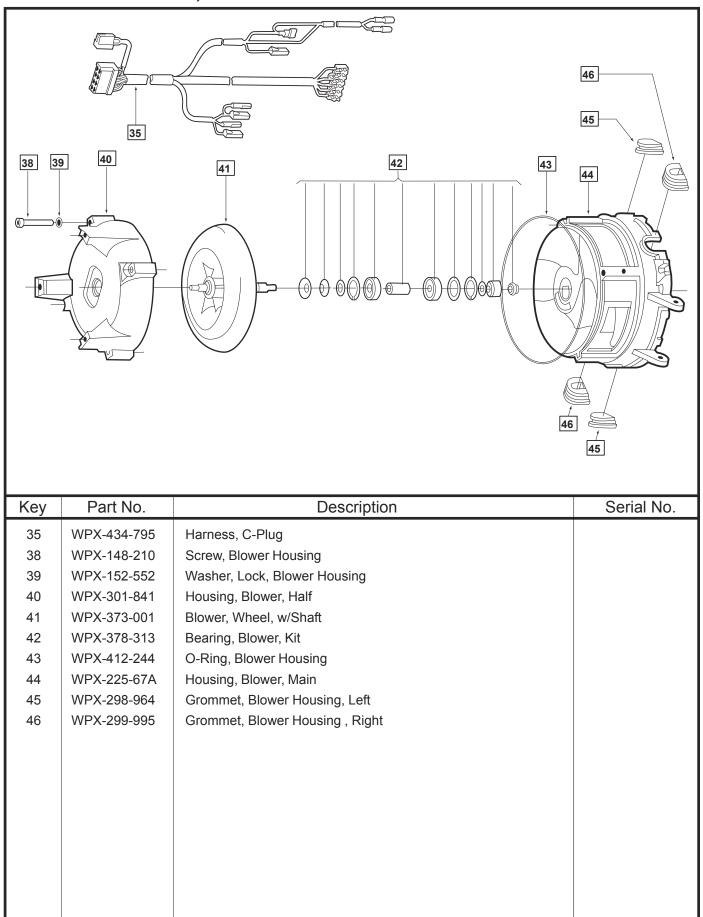
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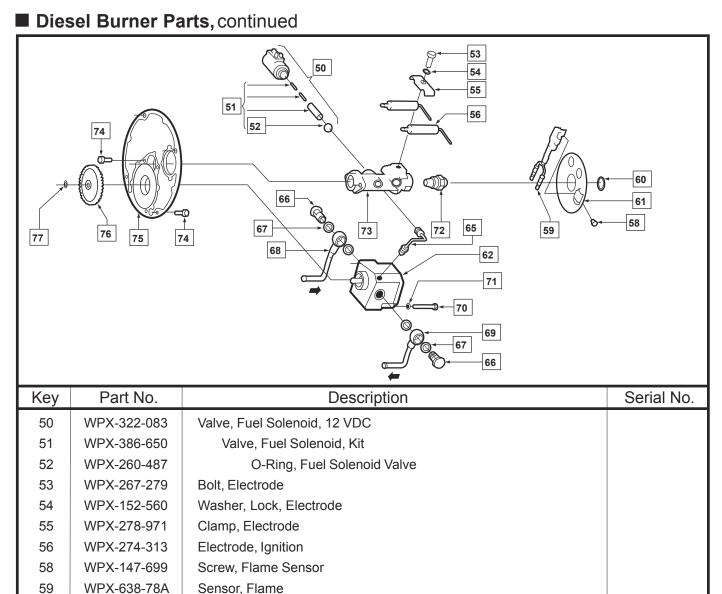
| HHE-200-08E - 12VDC (w/Engine Preheat) | Pages:   |
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#### ■ Diesel Burner Parts



### ■ Diesel Burner Parts, continued





Clip, Retaining, Photo Disc

Tube, Fuel, w/Fittings (High Pressure)

Grommet, Blower Housing, Left (shown in Diesel Burner Parts)

Grommet, Blower Housing, Right (shown in Diesel Burner Parts)

Disc, Photo

Pump, Fuel, Kit

Bolt, Banjo

Gasket, Copper

Tube, Fuel, Banjo, Supply

Tube, Fuel, Banjo, Return

Washer, Lock, Fuel Pump

Nozzle, Fuel, 0.35 GPH

Manifold, Nozzle, Brass

Gear, Fuel Pump, Nylon

Screw, Fuel Pump

Screw, Manifold

Plate, Manifold

Snap Ring, Gear

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WPX-453-048

WPX-887-71A

WPX-502-05A

WPX-665-49A

WPX-150-754

WPX-151-157

WPX-298-964

WPX-299-995

WPX-111-372

WPX-345-288

WPX-277-282

WPX-152-544

WPX-886-41A

WPX-412-198

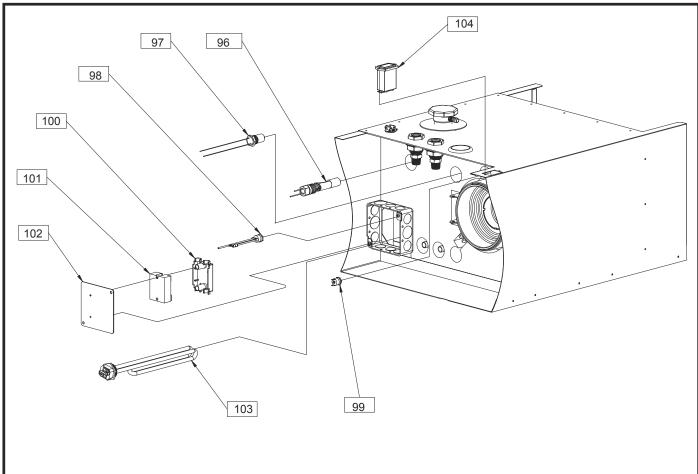
WPX-277-150

WPX-102-861

WPX-371-289

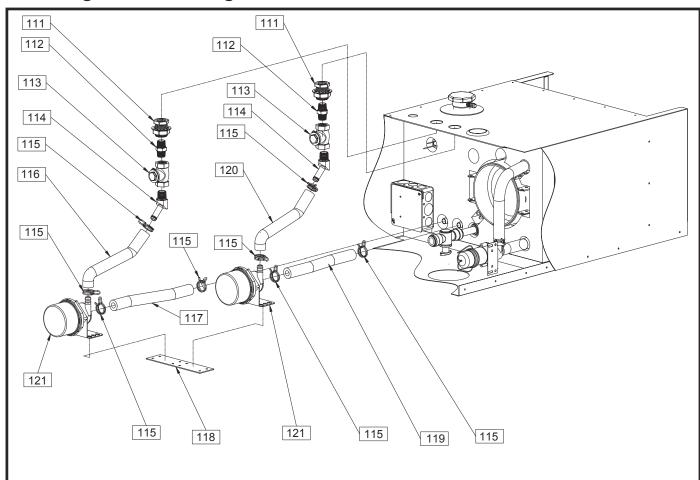
WPX-152-390

# **■** Electrical Components, Internal



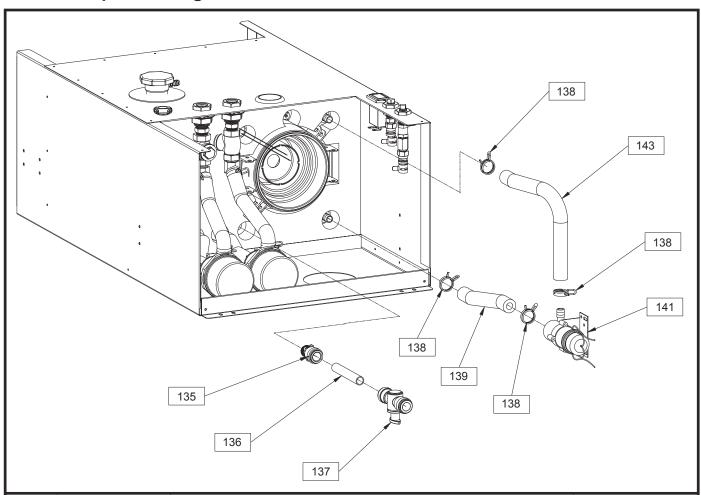
| Key | Part No.    | Description                           | Serial No. |
|-----|-------------|---------------------------------------|------------|
| 96  | ELE-800-001 | Switch, Float                         |            |
| 97  | ELE-800-100 | Thermostat, Control                   |            |
| 98  | ELE-ASY-200 | Thermostat, High-Limit, 120VAC        |            |
| 99  | ELE-HLT-222 | Thermostat, High Limit, 12VDC         |            |
| 100 | HDX-175-000 | Cover, Relay, Plastic                 |            |
| 101 | ELX-630-000 | Relay, Solid State                    |            |
| 102 | SME-C12-014 | Cover, Access, Junction Box           |            |
| 103 | ELX-2E7-540 | Element, Heating, 120 VAC, 1650 Watts |            |
| 104 | ELX-002-100 | Meter, Hour, Quartz                   |            |
|     |             |                                       |            |
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# ■ Heating Zone Plumbing



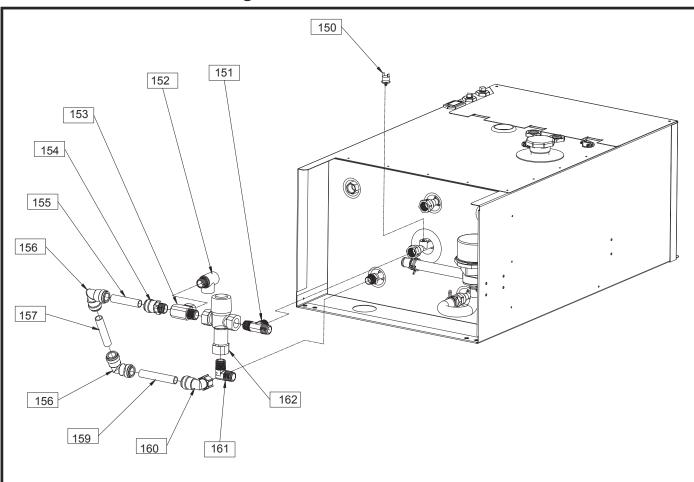
| Key | Part No.    | Description   | Serial No. |
|-----|-------------|---|------------|
| 111 | PLX-105-810 | Fitting, Bulkhead, 3/4 in (M)NPST x 1/2 in (F) NPT, Brass |            |
| 112 | PLX-122-000 | Fitting, Nipple,1/2 in (M)NPT, Brass                      |            |
| 113 | PLX-2A1-300 | Valve, Check, 1/2 in (F)NPT, Brass                        |            |
| 114 | PLX-114-080 | Elbow, 45 degree, 1/2 in (M)NPT x 1/2 in Hose Barb        |            |
| 115 | PLX-DW1-140 | Clamp, Hose   | -04335     |
|     | PLX-DW1-130 | Clamp, Hose   | 04336-     |
| 116 | PLE-TUB-105 | Hose, Heater, 1/2 in x 9 in                               | -04335     |
|     | PLE-286-202 | Hose, Heater, 1/2 in x 9 in                               | 04336-     |
| 117 | PLE-TUB-104 | Hose, Heater, 1/2 in x 8.5 in                             | -04335     |
|     | PLE-285-301 | Hose, Heater, 1/2 in x 8.75 in                            | 04336-     |
| 118 | PLE-GAS-012 | Insulator, Mounting, Pumps                                |            |
| 119 | PLE-TUB-102 | Hose, Heater, 1/2 in x 8.5 in                             | -04335     |
|     | PLE-285-301 | Hose, Heater, 1/2 in x 8.75 in                            | 04336-     |
| 120 | PLE-TUB-103 | Hose, Heater, 1/2 in x 8.75 in                            | -04335     |
|     | PLE-285-201 | Hose, Heater, 1/2 in x 6.75 in                            | 04336-     |
| 121 | PLE-100-820 | Pump, Circulation, Kit, 12VDC                             |            |
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|     |             |   |            |

# **■ Stir Pump Plumbing**



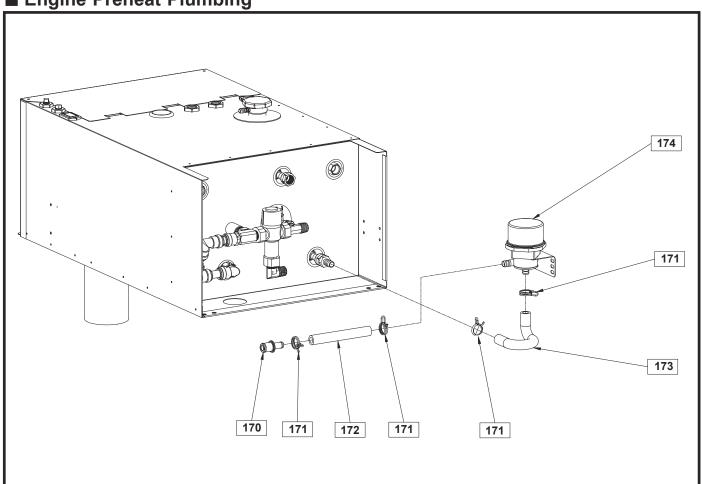
| Serial No. |
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| -04335     |
| 04336-     |
| -04335     |
| 04336-     |
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| -04335     |
| 04336-     |
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# ■ Domestic Water Plumbing



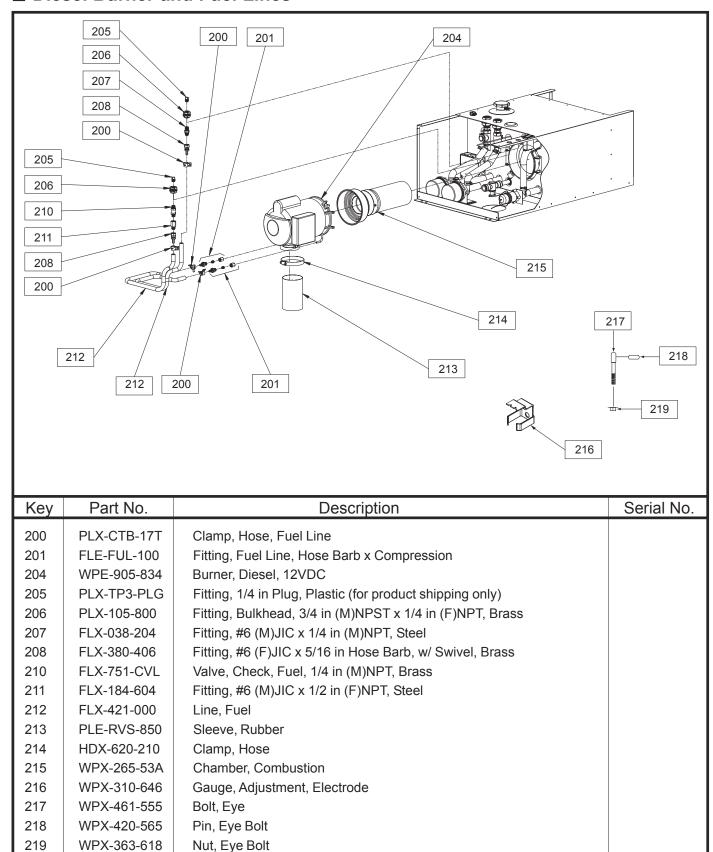
| Key | Part No.    | Description  | Serial No. |
|-----|-------------|--|------------|
| 150 | ELE-LTC-404 | Thermostat, Low Temperature Cut-Off, w/Clip        | -04164     |
|     | ELE-000-606 | Thermostat, Low Temperature Cut-Off                | 04165-     |
| 151 | PLE-200-011 | Fitting, Tee, 1/2 in (M)NPT, Brass                 |            |
| 152 | PLX-111-125 | Valve, Pressure Relief                             |            |
| 153 | PLX-0X1-07D | Fitting, Tee, 1/2 in (M)NPT x 1/2 in (F)NPT, Brass |            |
| 154 | PLX432-000  | Fitting, 1/2 in (M)NPT x 1/2 in PEX                |            |
| 155 | PLE-803-TUB | Tube, PEX, 1/2 in x 2.75 in                        |            |
| 156 | PLX-803-ELB | Fitting, Elbow, 1/2 in, PEX                        |            |
| 157 | PLE-805-TUB | Tube, PEX, 1/2 in x 3 in                           |            |
| 159 | PLE-806-TUB | Tube, PEX, 1/2 in x 3.375 in                       |            |
| 160 | PLX-803-FSE | Fitting, Elbow, 1/2 in PEX x 1/2 in (F)NPT         |            |
| 161 | PLX-99D-90A | Fitting, Elbow, 1/2 in (N)NPT, Brass               |            |
| 162 | PLX-09P-100 | Valve, Tempering                                   |            |
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# **■** Engine Preheat Plumbing

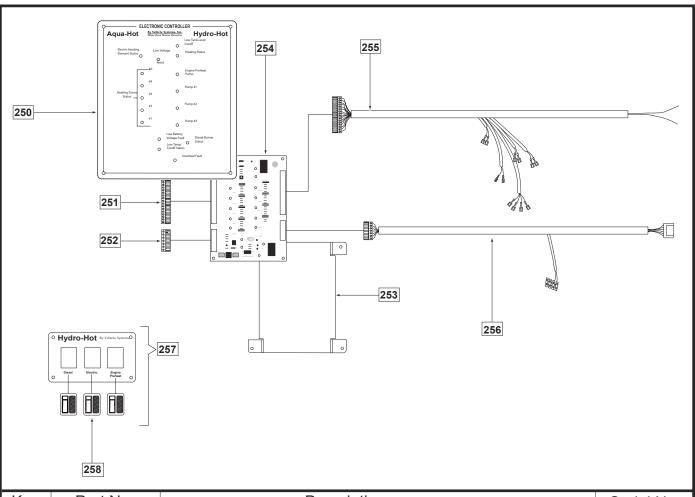


| Key                             | Part No.  | Description  | Serial No. |
|---------------------------------|---|--|------------|
| 170<br>171<br>172<br>173<br>174 | PLE-200-000<br>PLX-DW1-140<br>PLE-285-101<br>PLX-GAT-700<br>PLE-100-810 | Fitting, 3/4 in x 1/2 in, Reducer, Brass Clamp, Hose Hose, Heater, 1/2 in x 5.75 in Hose, Heater, Molded Pump, Circulation, Kit, 12VDC |            |
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#### ■ Diesel Burner and Fuel Lines

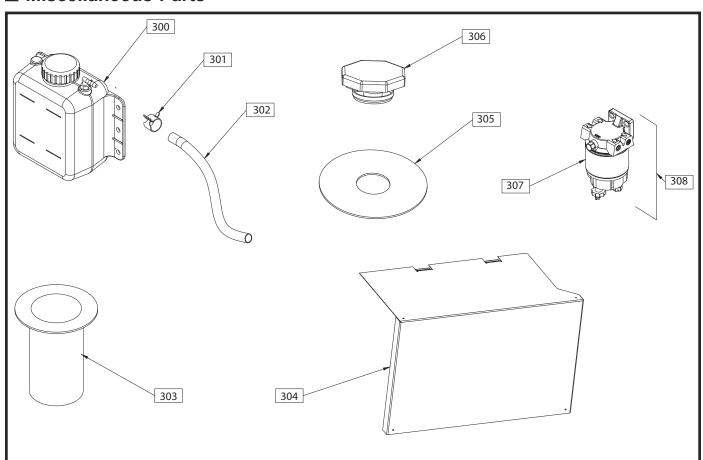


#### **■** Electronic Controller and Switch Panel



| Key | Part No.    | Description                                  | Serial No. |
|-----|-------------|--|------------|
| 250 | SME-FA4-009 | Faceplate, Electronic Controller, Enclosure  |            |
| 251 | ELX-312-490 | Plug, Electronic Controller, 20-Position     |            |
| 252 | ELX-312-498 | Plug, Electronic Controller, 8-Position      |            |
| 253 | SME-EN4-008 | Back, Electronic Controller, Enclosure       |            |
| 254 | ELE-PC4-008 | Controller, Electronic, w/Time Delay, 12 VDC |            |
| 255 | ELE-JP3-452 | Harness, Control                             |            |
| 256 | ELE-JP4-221 | Harness, B-Plug                              |            |
| 257 | ELE-ASM-506 | Panel, Switch, Assembly, 12VDC               |            |
| 258 | ELX-283-284 | Switch, Rocker, w/LED                        |            |
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### ■ Miscellaneous Parts

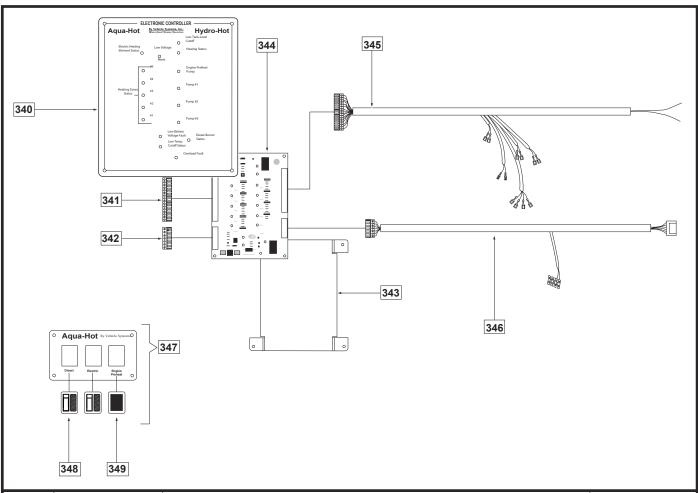


| Key | Part No.    | Description                                  | Serial No. |
|-----|-------------|--|------------|
| 300 | PLE-621-800 | Tank, Expansion, 3 qt                        |            |
| 301 | PLX-UM5-007 | Clamp, Hose                                  |            |
| 302 | PLX-210-092 | Tube, Overflow, 5/16 in x 6 ft               |            |
| 303 | PLE-400-000 | Boot, Rubber, w/Flange                       |            |
| 304 | SME-C23-500 | Cover, Access                                |            |
| 305 | PLE-GAS-FLL | Gasket, Rubber, Filler Neck                  |            |
| 306 | PLX-102-228 | Cap, Radiator, 7 lb                          |            |
| 307 | FLX-R12-TRA | Filter, Fuel                                 |            |
| 308 | FLX-120-VS1 | Filter, Fuel, Kit                            |            |
|     | LDE-103-500 | Label, Wire Diagram (not shown)              |            |
|     | LDE-DCL-220 | Label, Hydro-Hot (not shown)                 |            |
|     | LDE-102-CAU | Label, Caution, Yellow (not shown)           |            |
|     | LDE-150-000 | Label, Caution, Winterization (not shown)    |            |
|     | LDE-200-000 | Label, Warning, Propylene Glycol (not shown) |            |
|     | LDE-200-500 | Label, Warning, Radiator Cap (not shown)     |            |
|     | LDX-102-RAR | Label, Arrow, Red (not shown)                |            |
|     | LDX-102-STK | Label, VSI, 1 in x 4 in (not shown)          |            |
|     | LDX-162-8WR | Label, Hot Water (not shown)                 |            |
|     | LDX-162-BRD | Label, Out (not shown)                       |            |
|     | LDX-162-MWB | Label, Cold Water (not shown)                |            |
|     | LTE-VHS-224 | Manual, Owners, HHE-200-08E (not shown)      |            |
|     |             |  |            |

# HHE-500-08M

# **Hydro- Hot w/Motoraide**

#### **■** Electronic Controller and Switch Panel



| Key | Part No.    | Description                                  | Serial No. |
|-----|-------------|--|------------|
| 340 | SME-FA4-009 | Faceplate, Electronic Controller, Enclosure  |            |
| 341 | ELX-312-490 | Plug, Electronic Controller, 20-Position     |            |
| 342 | ELX-312-498 | Plug, Electronic Controller, 8-Position      |            |
| 343 | SME-EN4-008 | Back, Electronic Controller, Enclosure       |            |
| 344 | ELE-PC4-008 | Controller, Electronic, w/Time Delay, 12 VDC |            |
| 345 | ELE-JP3-452 | Harness, Control                             |            |
| 346 | ELE-JP4-221 | Harness, B-Plug                              |            |
| 347 | ELE-ASM-506 | Panel, Switch, Assembly, 12VDC               |            |
| 348 | ELX-283-284 | Switch, Rocker, w/LED                        |            |
| 349 | ELX-283-285 | Blank Insert, Switch                         |            |
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# Alphabetical Parts List

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| Back, Electronic Controller, Enclosure                    | 12       |  |
| Back, Electronic Controller, Enclosure                    | 10       |  |
| Bearing, Blower, Kit                                      | 2        |  |
| Blank Insert, Switch                                      | 12       |  |
| Blower, Wheel, w/Shaft                                    | 2        |  |
| Bolt, Banjo   | 3        |  |
| Bolt, Electrode   | 3        |  |
| Bolt, Eye   | 9        |  |
| Boot, Ignition Wire                                       | 1        |  |
| Boot, Ignition Wire, ELbow                                | 1        |  |
| Boot, Rubber, w/Flange                                    | 11       |  |
| Bracket, Controller Mounting                              | 1        |  |
| Burner, Diesel, 12VDC                                     | 9        |  |
| Cap, Radiator, 7 lb                                       | 11       |  |
| Chamber, Combustion                                       | 9        |  |
| Clamp, Electrode  | 3        |  |
| Clamp, Hose   | 5        |  |
| Clamp, Hose   | 5        |  |
| Clamp, Hose   | 6        |  |
| Clamp, Hose   | 6        |  |
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| Clamp, Hose   |          |  |
| Clamp, Hose   | 8        |  |
| Clamp, Hose   | 9        |  |
| Clamp, Hose, Fuel Line                                    | 9        |  |
| Clip, Retaining, Photo Disc                               | 3        |  |
| Coil, Ignition, 12 VDC                                    | 1        |  |
| Controller, Diesel Burner, 12 VDC                         | 1        |  |
| Controller, Electronic, w/Time Delay, 12 VDC              | 12       |  |
| Controller, Electronic, w/Time Delay, 12 VDC              | 10       |  |
| Coupling, Half, 6mm                                       | 1        |  |
| Cover, Access   | 11       |  |
| Cover, Access, Junction Box                               | 4        |  |
| Cover, Relay, Plastic                                     | 4        |  |
| Disc, Photo   | 3        |  |
| Elbow, 45 degree, 1/2 in (M)NPT x 1/2 in Hose Barb        | 5        |  |
| Electrode, Ignition                                       | 3        |  |
| Element, Heating, 120 VAC, 1650 Watts                     | 4        |  |
| Faceplate, Electronic Controller, Enclosure               | 12       |  |
| Faceplate, Electronic Controller, Enclosure               | 10       |  |
| Filter, Fuel  | 11       |  |
| Filter, Fuel, Kit   | 11       |  |
|   | 9        |  |
| Fitting, #6 (F)JIC x 5/16 in Hose Barb, w/ Swivel, Brass  |          |  |
| Fitting, #6 (M)JIC x 1/2 in (F)NPT, Steel                 | 9        |  |
| Fitting, #6 (M)JIC x 1/4 in (M)NPT, Steel                 | 9        |  |
| Fitting, 1/2 in (M)NPT x 1/2 in PEX                       | 7        |  |
| Fitting, 1/2 in PEX x 1/2 in (F)NPT                       | 6        |  |
| Fitting, 1/4 in Plug, Plastic (shipping only)             | 9        |  |
| Fitting, 3/4 in x 1/2 in, Reducer, Brass                  | 8        |  |
| Fitting, Bulkhead, 3/4 in (M)NPST x 1/2 in (F) NPT, Brass | 5        |  |
| Fitting, Bulkhead, 3/4 in (M)NPST x 1/4 in (F)NPT, Brass  | 9        |  |
| Fitting, Elbow, 1/2 in (N)NPT, Brass                      | 7        |  |
| Fitting, Elbow, 1/2 in PEX x 1/2 (F)NPT                   | 7        |  |
| Fitting, Elbow, 1/2 in, PEX                               | 7        |  |
|   |          |  |
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# ■ Alphabetical Parts List

|  | Page No. |
|--|----------|
| ·  | •        |
| Fitting, Fuel Line, Hose Barb <del>x Compress</del> ion        | 9        |
| Fitting, Nipple, 1/2 in (M) NPT, Brass                         | 5        |
| Fitting, Tee, 1/2 in (M)NPT x 1/2 in (F)NPT, Brass             | 7        |
| Fitting, Tee, 1/2 in (M)NPT, Brass                             | 7        |
| Gasket, Copper   | 3        |
| Gasket, Rubber, Filler Neck                                    | 11       |
| Gauge, Adjustment, Electrode (not shown)                       | 9        |
| Gear, Fuel Pump, Nylon   | 3        |
| Grommet, Blower Housing , Right                                | 2        |
| Grommet, Blower Housing, Left                                  | 2        |
| Grommet, Blower Housing, Left (shown in Diesel Burner Parts)   | 3        |
| Grommet, Blower Housing, Right (shown in Diesel Burner Parts)  | 3        |
| Harness, B-Plug  | 12       |
| Harness, B-Plug  | 10       |
| Harness, Control   | 12       |
| Harness, Control   | 10       |
| Harness, C-Plug  | 2        |
| Hose, Heater, 1/2 in x 10.75 in                                | 6        |
| Hose, Heater, 1/2 in x 10.75 in                                | 6        |
| Hose, Heater, 1/2 in x 5.75 in                                 | 6        |
| Hose, Heater, 1/2 in x 5.75 in                                 | 6        |
| Hose, Heater, 1/2 in x 5.75 in                                 | 8        |
| Hose, Heater, 1/2 in x 6.75 in                                 | 5        |
| Hose, Heater, 1/2 in x 8.5 in                                  | 5        |
| Hose, Heater, 1/2 in x 8.5 in                                  | 5        |
| Hose, Heater, 1/2 in x 8.75 in                                 | 5        |
| Hose, Heater, 1/2 in x 8.75 in                                 | 5        |
| Hose, Heater, 1/2 in x 8.75 in                                 | 5        |
| Hose, Heater, 1/2 in x 9 in                                    | 5        |
| Hose, Heater, 1/2 in x 9 in                                    | 5        |
| Hose, Heater, Molded   | 8        |
| Housing, Blower, Half  | 2        |
| Housing, Blower, Main  | 2        |
| Housing, Protection, Motor                                     | 1        |
| Insulator, Mounting, Pumps                                     | 5        |
| Label, Arrow, Red (not shown)                                  | 11       |
| Label, Caution, Winterization (not shown)                      | 11       |
| Label, Caution, Yellow (not shown)                             | 11       |
| Label, Cold Water (not shown)                                  | 11       |
| Label, Hot Water (not shown)                                   | 11       |
| Label, Hydro-Hot (not shown)                                   | 11       |
| Label, Out (not shown)   | 11       |
| Label, VSI, 1 in x 4 in (not shown)                            | 11       |
| Label, Warning, Propylene Glycol (not shown)                   | 11       |
|  | 11       |
| Label, Warning, Radiator Cap (not shown)                       |          |
| Label, Wire Diagram (not shown)                                | 11       |
| Line, Fuel   | 9        |
| Manifold, Nozzle, Brass  | 3        |
| Manual, Owners, HHE-200-08E (not shown)                        | 11       |
| MATAL HOUR ( ) HOTT  | 4        |
| Meter, Hour, Quartz  |          |
| Motor, Combustion Air/Fuel Pump, 12 VDC Nozzle, Fuel, 0.35 GPH | 1<br>3   |

# ■ Alphabetical Parts List

| DescriptionPage No.Nut, Eye Bolt9O-Ring, Blower Housing2O-Ring, Fuel Solenoid Valve3Panel, Switch, Assembly, 12VDC12Panel, Switch, Assembly, 12VDC10Pin, Eye Bolt9Plate, Manifold3Plate, Motor Mounting1Plug, Electronic Controller, 20-Position12Plug, Electronic Controller, 20-Position10Plug, Electronic Controller, 8-Position12Plug, Electronic Controller, 8-Position10Pump, Circulation, Kit, 12VDC5Pump, Circulation, Kit, 12VDC5   |
|--|
| O-Ring, Blower Housing O-Ring, Fuel Solenoid Valve 3 Panel, Switch, Assembly, 12VDC Panel, Switch, Assembly, 12VDC Pin, Eye Bolt Plate, Manifold Plate, Motor Mounting Plug, Electronic Controller, 20-Position Plug, Electronic Controller, 20-Position Plug, Electronic Controller, 8-Position Plug, Electronic Controller, 8-Position Pump, Circulation, Kit, 12VDC  2 O-Ring, Blower Housing 3 Plug Plug Plug Plug Plug Plug Plug Plug   |
| O-Ring, Fuel Solenoid Valve  Panel, Switch, Assembly, 12VDC  Panel, Switch, Assembly, 12VDC  Pin, Eye Bolt  Plate, Manifold  Plate, Motor Mounting  Plug, Electronic Controller, 20-Position  Plug, Electronic Controller, 20-Position  Plug, Electronic Controller, 8-Position  Plug, Electronic Controller, 8-Position  Plug, Electronic Controller, 8-Position  Plug, Electronic Controller, 8-Position  Pump, Circulation, Kit, 12VDC  5 |
| Panel, Switch, Assembly, 12VDC Panel, Switch, Assembly, 12VDC Pin, Eye Bolt Plate, Manifold Plate, Motor Mounting Plug, Electronic Controller, 20-Position Plug, Electronic Controller, 20-Position Plug, Electronic Controller, 8-Position Plug, Electronic Controller, 8-Position Plug, Electronic Controller, 8-Position Plug, Electronic Controller, 8-Position Pump, Circulation, Kit, 12VDC 5  |
| Panel, Switch, Assembly, 12VDC Pin, Eye Bolt Plate, Manifold Plate, Motor Mounting Plug, Electronic Controller, 20-Position Plug, Electronic Controller, 20-Position Plug, Electronic Controller, 8-Position Plug, Electronic Controller, 8-Position 10 Plug, Electronic Controller, 8-Position 10 Pump, Circulation, Kit, 12VDC 5   |
| Pin, Eye Bolt9Plate, Manifold3Plate, Motor Mounting1Plug, Electronic Controller, 20-Position12Plug, Electronic Controller, 20-Position10Plug, Electronic Controller, 8-Position12Plug, Electronic Controller, 8-Position10Pump, Circulation, Kit, 12VDC5   |
| Plate, Manifold 3 Plate, Motor Mounting 1 Plug, Electronic Controller, 20-Position 12 Plug, Electronic Controller, 20-Position 10 Plug, Electronic Controller, 8-Position 12 Plug, Electronic Controller, 8-Position 10 Pump, Circulation, Kit, 12VDC 5  |
| Plate, Motor Mounting 1 Plug, Electronic Controller, 20-Position 12 Plug, Electronic Controller, 20-Position 10 Plug, Electronic Controller, 8-Position 12 Plug, Electronic Controller, 8-Position 10 Pump, Circulation, Kit, 12VDC 5  |
| Plug, Electronic Controller, 20-Position12Plug, Electronic Controller, 20-Position10Plug, Electronic Controller, 8-Position12Plug, Electronic Controller, 8-Position10Pump, Circulation, Kit, 12VDC5   |
| Plug, Electronic Controller, 20-Position10Plug, Electronic Controller, 8-Position12Plug, Electronic Controller, 8-Position10Pump, Circulation, Kit, 12VDC5   |
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| Plug, Electronic Controller, 8-Position 10 Pump, Circulation, Kit, 12VDC 5   |
| Pump, Circulation, Kit, 12VDC 5  |
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|  |
| Pump, Circulation, Stir, 12VDC 6   |
| Pump, Fuel, Kit 3  |
| Relay, Solid State 4   |
| Screw, Blower Housing 2  |
| Screw, Coil Mounting 1   |
| Screw, Flame Sensor 3  |
| Screw, Flange, Blower Housing 1  |
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