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## PARTS

Contains parts diagrams and listings of parts common to ROBUR Gas Fired Absorption Heat Pumps, Chillers, Chiller-Heaters as well as the Stand Alone AY119 heater sections, manufactured since 2005.

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### AY119-SA and AYF60-119 Heater Section Parts

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# **ABSORPTION LINES**

# **AIR & WATER COOLED**

# **MODELS**

## **ACF60 SERIES**

ACF60-ST

ACF60-TK

ACF60-HT

ACF60-LB

ACF60-HR

## **GAHP SERIES**

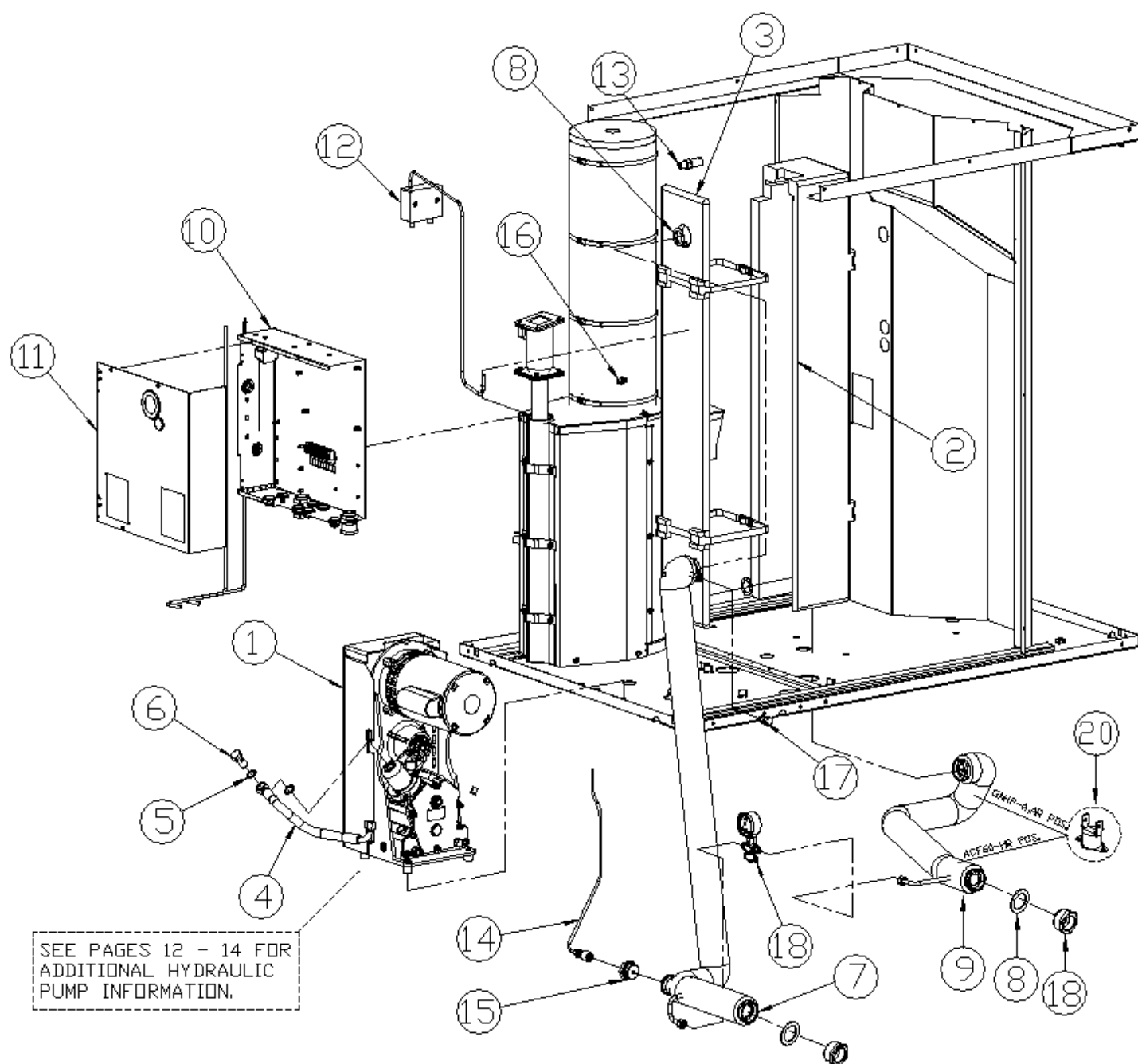
GAHP-A

GAHP-AR

GAHP-W

GAHP-WLB

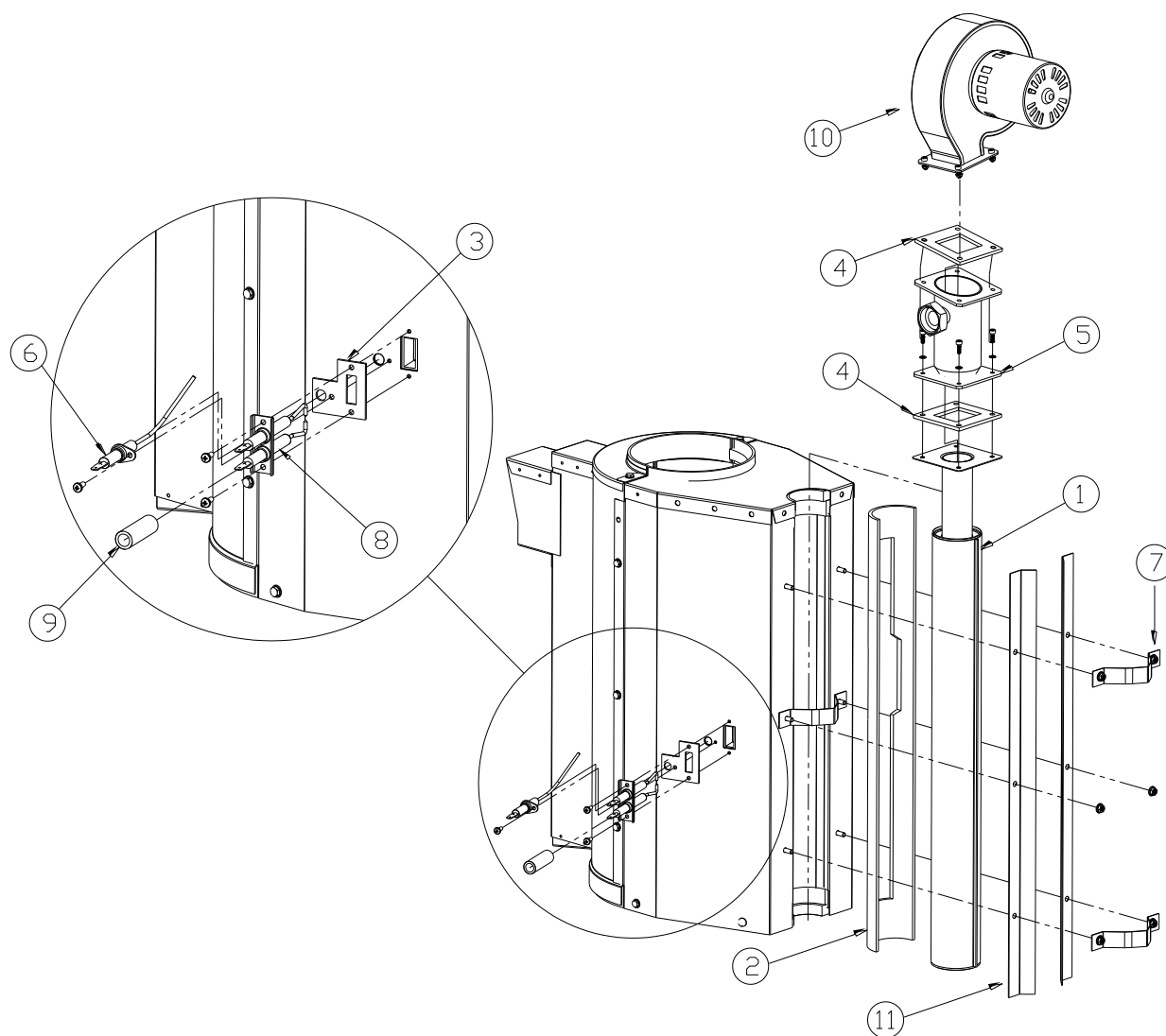
## COMPONENTS



## COMPONENTS LISTING

| NUM. | PART #    | DESCRIPTION                                                                                                                                                                                                         |
|------|-----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1    | J-PMP000  | HYDRAULIC PUMP (Does not include motor or hose components) – GAHP, ACF60                                                                                                                                            |
| 2    | J-CBN092  | EVAPORATOR/CONDENSER INSULATION – REAR – GAHP-A, AR, ACF60.2                                                                                                                                                        |
| 3    | J-CBN091  | EVAPORATOR/CONDENSER INSULATION – FRONT – GAHP-A, AR, ACF60.2                                                                                                                                                       |
| 4    | J-TBO358  | HYDRAULIC PUMP HOSE – GAHP, ACF60.2<br>Includes: N-RND016 Hose Washer, N-BLL000 Connector Bolt                                                                                                                      |
| 5    | N-RND016  | HYDRAULIC PUMP HOSE WASHER-D.3/8"x1.5 – GAHP, ACF60.2                                                                                                                                                               |
| 6    | N-BLL000  | CONNECTOR BOLT– HYDRAULIC PUMP HEAD TO HOSE – GAHP, ACF60.2                                                                                                                                                         |
| 7    | J-TBO314  | INLET WATER LINE – GAHP-W & W-LB - Both Chilled & Hot Coils – All Ser. No's. (Not Shown)                                                                                                                            |
|      | J-TBO420  | INLET WATER LINE – GAHP-A w/ Ser.No. 351160021 & Lower<br>GAHP-AR w/ Ser.No. 344960015 & Lower<br>ACF60-ST, TK, HT, LB w/ Ser.No. 351760021 & Lower<br>ACF60-HR Chilled Water Coil w/ Ser.No. 351760021 & Lower     |
|      | J-TBO513  | INLET WATER LINE – ACF60-HR Heat Recover Coil w/ Ser.No. 351660039 & Lower (Not Shown)                                                                                                                              |
|      | J-TBO1317 | INLET WATER LINE – GAHP-A w/ Ser.No. 351160022 & Higher<br>GAHP-AR w/ Ser.No. 344960016 & Higher<br>ACF60-ST, TK, HT, LB w/ Ser.No. 351760022 & Higher<br>ACF60-HR Chilled Water Coil w/ Ser.No. 351660040 & Higher |
|      | J-TBO1369 | INLET WATER LINE – ACF60-HR Heat Recover Coil w/ Ser.No. 351660040 & Higher (Not Shown)                                                                                                                             |
| 8    | J-RND017  | TEFLON WASHER 1 1/4" – QTY. 1 - GAHP, ACF60.2, AY119                                                                                                                                                                |
| 9    | J-TBO317  | OUTLET WATER LINE – GAHP-W & W-LB - Chilled Water Coil – All Ser. No's. (Not Shown)                                                                                                                                 |
|      | J-TBO831  | OUTLET WATER LINE – GAHP-W & W-LB - Hot Water Coil – All Ser. No's. (Not Shown)                                                                                                                                     |
|      | J-TBO830  | OUTLET WATER LINE – GAHP-A w/ Ser.No. 351160021 & Lower<br>GAHP-AR w/ Ser.No. 344960015 & Lower                                                                                                                     |
|      | J-TBO418  | OUTLET WATER LINE – ACF60-ST, TK, HT, LB w/ Ser.No. 351760021 & Lower<br>ACF60-HR Chilled Water Coil w/ Ser.No. 351660039 & Lower                                                                                   |
|      | J-TBO813  | OUTLET WATER LINE – ACF60-HR Heat Recover Coil w/ Ser.No. 351660039 & Lower (Not Shown)                                                                                                                             |
|      | J-TBO1325 | OUTLET WATER LINE – GAHP-A w/ Ser.No. 351160022 & Higher<br>GAHP-AR w/ Ser.No. 344960016 & Higher                                                                                                                   |
|      | J-TBO1320 | OUTLET WATER LINE – ACF60-ST, TK, HT, LB w/ Ser.No. 351760022 & Higher<br>ACF60-HR Chilled Water Coil w/ Ser.No. 351660040 & Higher                                                                                 |
|      | J-TBO813  | OUTLET WATER LINE – ACF60-HR Heat Recover Coil w/ Ser.No. 351660040 & Higher (Not Shown)                                                                                                                            |
| 10   | J-BQD018  | CONTROL BOX BASE – GAHP, ACF60.2                                                                                                                                                                                    |
| 11   | J-CQD011  | CONTROL BOX COVER – GAHP, ACF60.2                                                                                                                                                                                   |
| 12   | J-TRS011  | IGNITION TRANSFORMER – GAHP, ACF60.2, AY119                                                                                                                                                                         |
| 13   | J-VLV032  | HIGH PRESSURE REFRIGERANT RELIEF VALVE – GAHP, ACF60                                                                                                                                                                |
| 14   | J-FLS009  | FLOW SWITCH – GAHP, ACF60.2                                                                                                                                                                                         |
| 15   | J-GFS001  | FLOW SWITCH RING NUT – GAHP, ACF60.2                                                                                                                                                                                |
| 16   | J-TLT015  | HIGH TEMP. LIMIT SWITCH – GAHP, ACF60.2, AY119                                                                                                                                                                      |
| 17   | J-VLV058  | AIR BLEED-MANUAL – GAHP, ACF60.2                                                                                                                                                                                    |
| 18   | J-MNM002  | WATER PRESSURE DIFFERENTIAL GAUGE – GAHP, ACF60.2, AY119                                                                                                                                                            |
| 19   | J-RCC044  | WATER LINE ADAPTERS – QTY. 1 – GAHP, ACF60.2, AY119                                                                                                                                                                 |
| 20   | J-TLT023  | HOT WATER LIMIT SWITCH – GAHP, ACF60-HR (W & WLB location Not Shown)                                                                                                                                                |
| -    | J-MTR061  | ACTUATOR – REVERSING VALVE – GAHP-AR w/ S# higher than 321160025 (Not Shown)                                                                                                                                        |
| -    | J-MTR061A | ACTUATOR & AR11 KIT – REV. VALVE – GAHP-AR w/ S# higher than 321160025 (Not Shown)                                                                                                                                  |
| -    | J-CVO206  | REV. VALVE END SWITCH / MICRO SWITCH – QTY. 2 - GAHP-AR (Not Shown)                                                                                                                                                 |

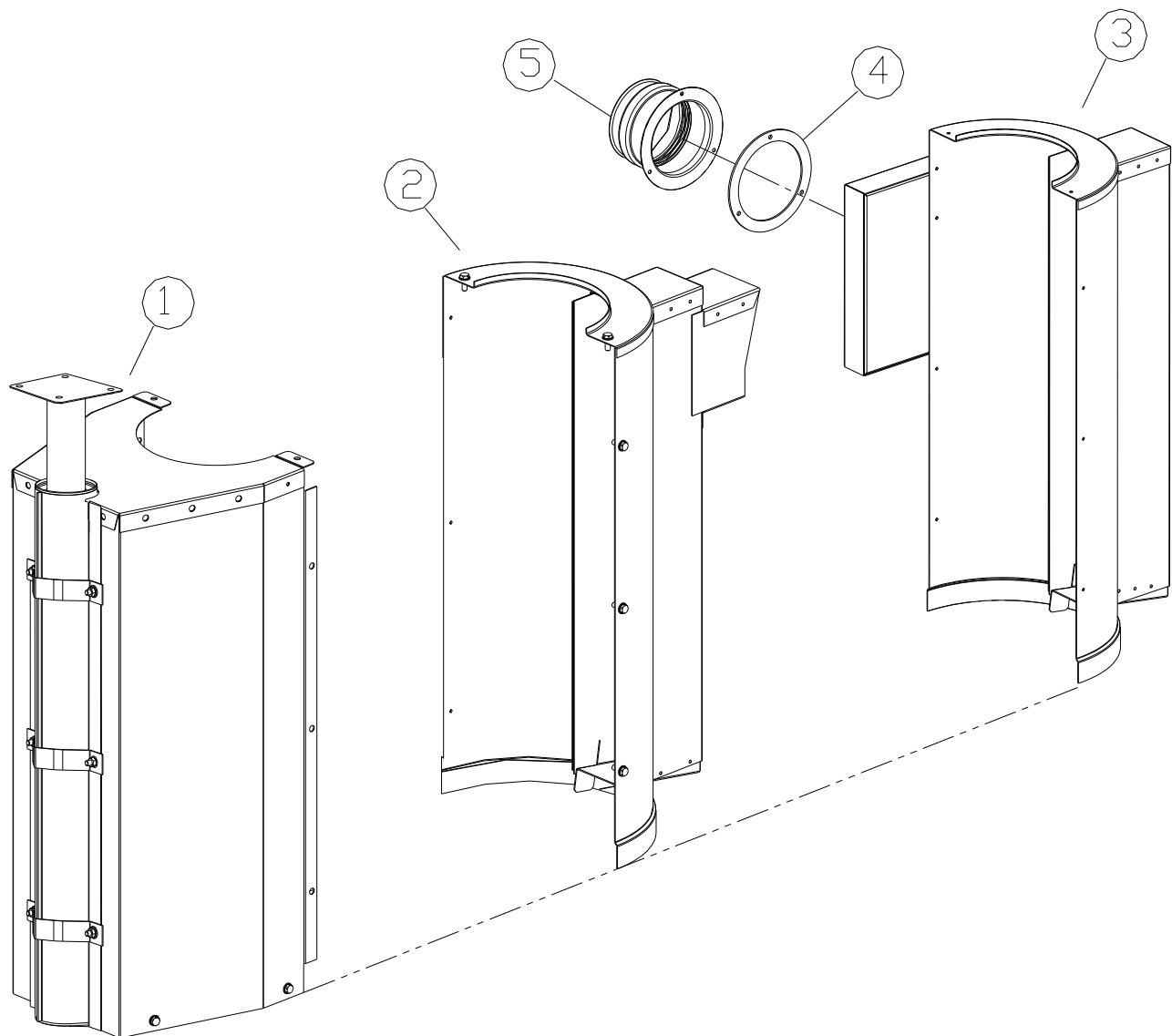
## COMBUSTION COMPONENTS



\*Note: Review parts lists for parts not depicted

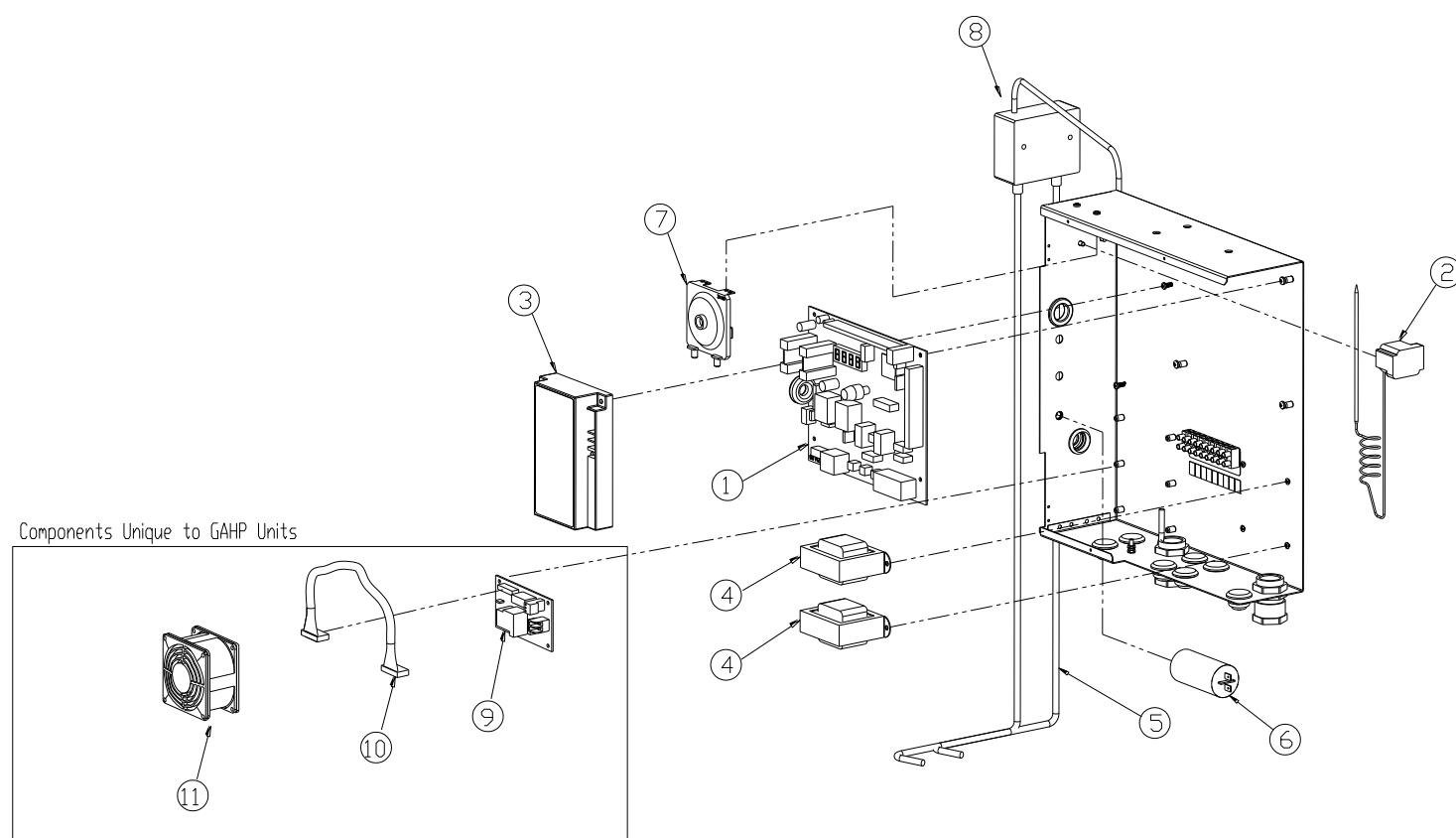
| NUM. | PART #   | DESCRIPTION                                                                                                                                                                                          |
|------|----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1    | J-BRC017 | BURNER KIT – GAHP, ACF60.2 - Includes: (1) J-BRC017 Burner, (1) J-CBN029 Burner Gasket, (1) J-GRN028 Burner Union Gasket, (3) J-MFS000 Burner Straps-Horizontal, (2) J-STF120 Burner Straps-vertical |
| 2    | J-CBN154 | BURNER GASKET – GAHP, ACF60.2, AY119 – Recommend use of J-GRN028 as well.                                                                                                                            |
| 3    | J-GRN086 | IGNITER/FLAME SENSOR GASKET – GAHP, ACF60.2                                                                                                                                                          |
| 4    | J-GRN028 | BURNER UNION GASKET – GAHP, ACF60.2, AY119 – Recommend use of J-CBN029 as well.                                                                                                                      |
| 5    | J-DFF009 | GAS MIXING TUBE – GAHP, ACF60.2                                                                                                                                                                      |
| 6    | J-LTT046 | FLAME SENSOR Includes Wire – not shown – GAHP, ACF60.2                                                                                                                                               |
| 7    | J-MFS000 | BURNER STRAP - HORIZONTAL – Qty 1– GAHP, ACF60, AY119                                                                                                                                                |
| 8    | J-LTT047 | IGNITION ELECTRODE KIT – GAHP, ACF60.2, AY119 - Includes: (1) J-LTT047 Electrode, (1) J-GRN086 Igniter Gasket, (1) J-CSL000 Ceramic Insulator, (2) J-CVO124 Ignition Wires-not shown                 |
| 9    | J-CSL000 | CERAMIC INSULATOR D.11/16 x 50 – GAHP, ACF60.2, AY119                                                                                                                                                |
| 10   | J-SFF038 | COMBUSTION BLOWER ASSEMBLY – GAHP, ACF60.2 - Includes: (1) Motor, (1) Scroll Housing, (1) Blower Wheel, (1) J-GRN028 Union Gasket                                                                    |
| 11   | L-STF120 | BURNER STRAPS – VERTICAL – GAHP, ACF60, AY119                                                                                                                                                        |
| -    | J-CBL190 | FLAME SENSOR WIRE – GAHP, ACF60.2, – Not Shown                                                                                                                                                       |
| -    | J-CVO124 | IGNITER WIRE – GAHP, ACF60.2, AY119 – Not Shown                                                                                                                                                      |

## COMBUSTION CHAMBER



| NUM. | PART #   | DESCRIPTION                                                                                                                                                                                                                                |
|------|----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1    | J-CCM026 | FRONT COMBUSTION CHAMBER – GAHP, ACF60.2<br>Includes: (1) E-LTT047 Igniter, (1) E-LTT046 Flame Sensor, all Gaskets (burner, union, flame sensor, igniter), All Burner Straps, Spark Insulators, Insulation, Hardware – Burner not Included |
| 2    | J-CMR000 | REAR COMBUSTION CHAMBER – ACF60.2<br>Includes all Insulation and Gaskets                                                                                                                                                                   |
| 3    | J-CCM027 | REAR COMBUSTION CHAMBER – GAHP-A, AR, W, WLB<br>Includes all Insulation and Gaskets                                                                                                                                                        |
| 4    | J-GRN072 | FLUE COLLAR – GAHP-A, AR, W, WLB                                                                                                                                                                                                           |
| 5    | J-BCC021 | FLUE CONNECTOR – GAHP-A, AR, W, WLB                                                                                                                                                                                                        |

## CONTROL COMPONENTS

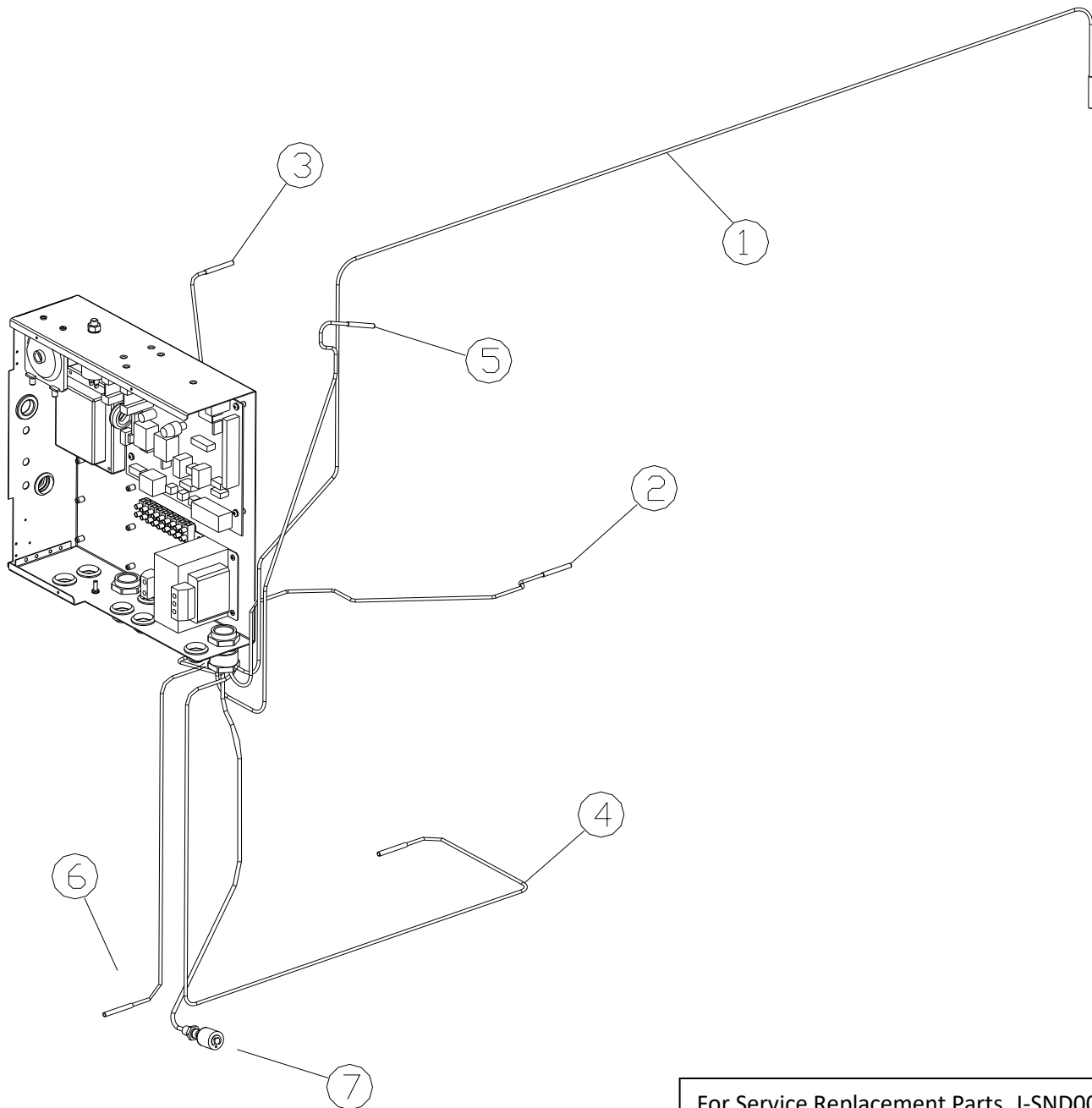


\*Note: Review parts lists for parts not depicted

| NUM. | PART #                | DESCRIPTION                                                                                                 |
|------|-----------------------|-------------------------------------------------------------------------------------------------------------|
| 1    | J-SLT040              | CONTROL BOARD S61CF24 – GAHP, ACF60.2                                                                       |
| 2    | J-TLT020              | EXHAUST THERMOSTAT – GAHP, ACF60.2, AY119                                                                   |
| 3    | J-CNT031              | IGNITION CONTROL – FENWAL – GAHP, ACF60.2, AY119                                                            |
| 4    | J-TRS013              | TRANSFORMER 208-240/24v 40VA – GAHP, ACF60.2, AY119                                                         |
| 5    | J-CVO124              | IGNITION WIRES-(2) PER KIT – GAHP, ACF60.2, AY119                                                           |
| 6    | J-CND011              | CAPACITOR-CONDENSER FAN MOTOR 12uf 450V – GAHP-A, AR, ACF60.2                                               |
| 7    | J-PRS001A<br>J-PRS006 | AIR PRESSURE DIFFERENTIAL SWITCH 183Pa – GAHP Only<br>AIR PRESSURE DIFFERENTIAL SWITCH 213Pa – ACF60.2 Only |
| 8    | J-TRS011              | IGNITION TRANSFORMER – GAHP, ACF60.2, AY119                                                                 |
| 9    | J-SLT023<br>J-SLT025  | W10 ELECTRONIC CONTROL BOARD – GAHP-A, W, WLB ONLY<br>AR10 ELECTRONIC CONTROL BOARD – GAHP-AR ONLY          |
| 10   | J-CVO150              | W10 / AR10 20-PIN COMM CABLE – GAHP MODELS                                                                  |
| 11   | J-VNT021              | CONTROL BOX EXHAUST FAN – GAHP-W, WLB ONLY                                                                  |
| -    | E-MRS020              | TERMINAL STRIP – GAHP, ACF60.2, AY119 – Not Labeled                                                         |
| -    | J-CND028              | CAPACITOR – PRE-MIX BLOWER ASSY - 1uf 450V – GAHP, ACF60.2, AY119 – Not Shown                               |
| -    | 16009-757             | 2 Amp Fuses – Qty (5)per kit – All Models – Not Shown                                                       |
| -    | 16009-758             | 3.15 Amp Fuses – Qty (5)per kit – All Models – Not Shown                                                    |
| -    | 16009-759             | 10 Amp Fuses – Qty (5)per kit – All Models – Not Shown                                                      |



## SENSORS

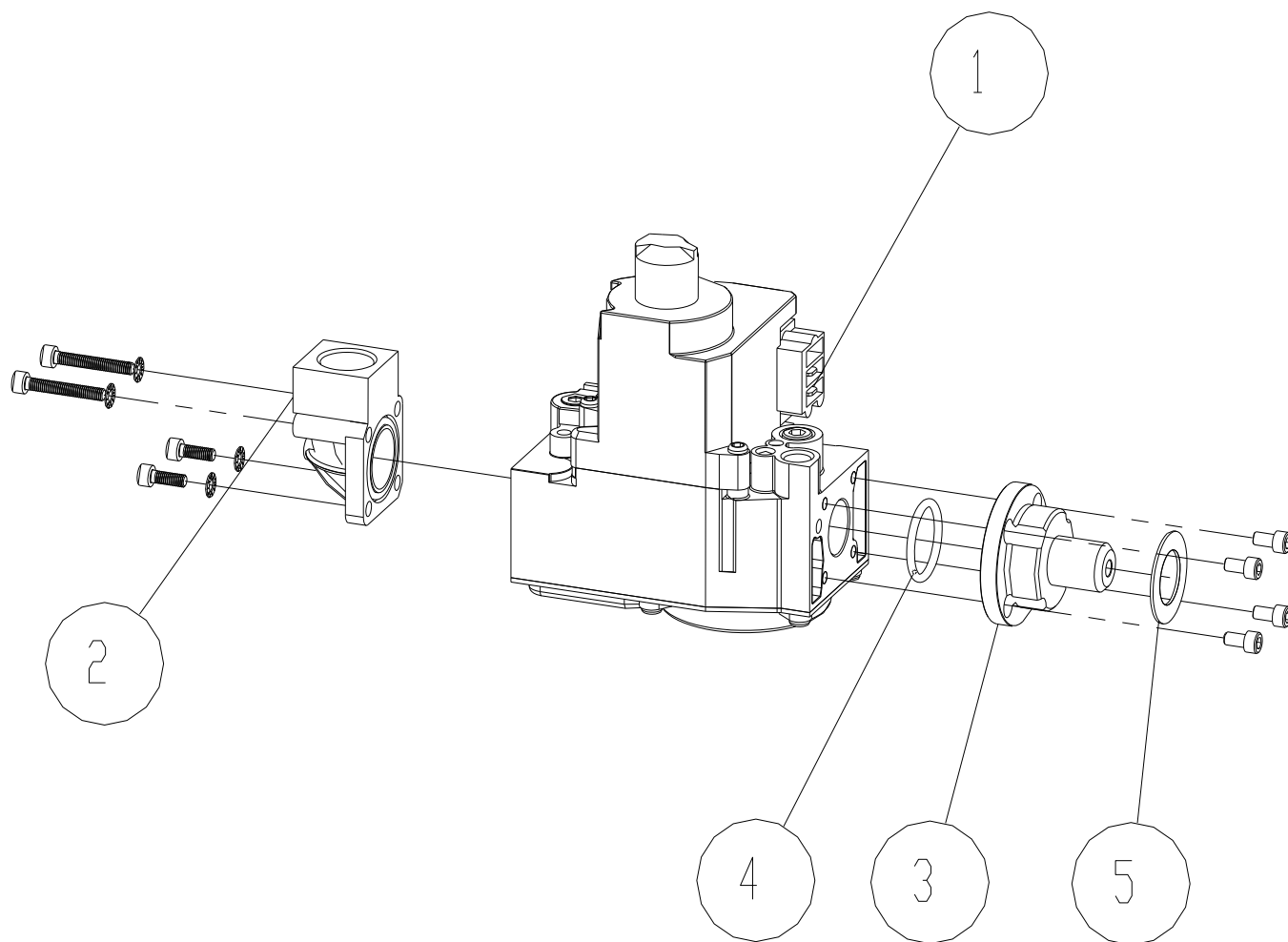


For Service Replacement Parts, J-SND006 will be used in place of J-SND007, 008, & 009.

\*Note: Review parts lists for parts not depicted

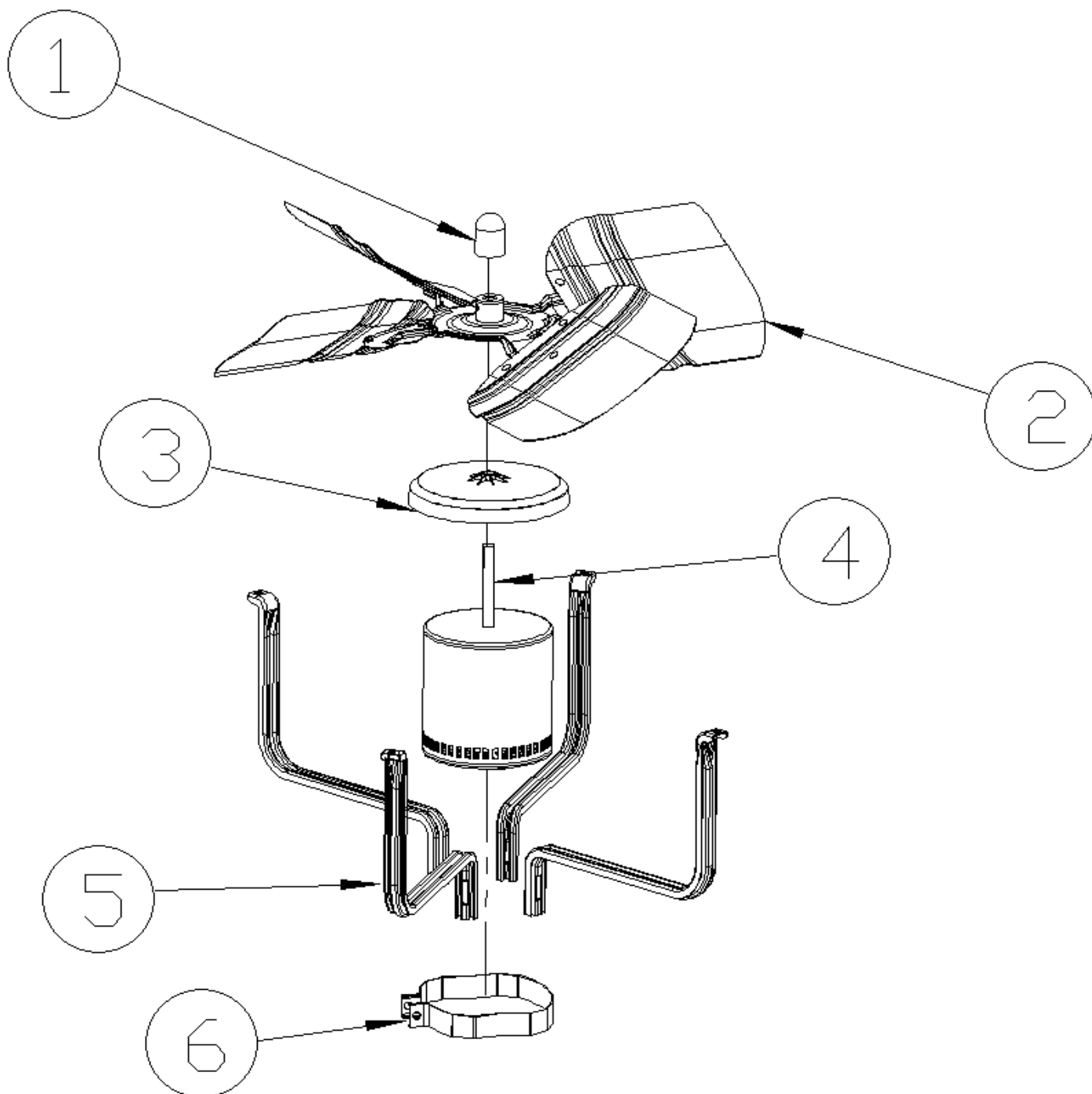
| NUM. | PART #   | DESCRIPTION                                                         |
|------|----------|---------------------------------------------------------------------|
| 1    | J-SND006 | AMBIENT TEMP SENSOR (TA) L=2170mm – GAHP, ACF60.2, AY119            |
| 2    | J-SND009 | COND /EVAP SENSOR (TCN) L=1270mm ALT. J-SND006 – GAHP, ACF60.2      |
| 3    | J-SND008 | INLET WATER LINE SENSOR (TH2R) L=1270 ALT. J-SND006 – GAHP, ACF60.2 |
| 4    | J-SND007 | OUTLET WATER LINE SENSOR (TH2M) L-1270ALT. J-SND006 – GAHP, ACF60.2 |
| 5    | J-SND005 | GENERATOR TEMP SENSOR (TG) – GAHP, ACF60.2                          |
| 6    | J-INT006 | HYDRAULIC PUMP ROTATION SENSOR – GAHP, ACF60.2                      |
| 7    | J-FLS009 | FLOW SWITCH – GAHP, ACF60.2                                         |
| -    | Z-833    | HEAT SINK PASTE – Used for sensor connection to metal – Not Shown   |

## GAS VALVE COMPONENTS



| NUM. | PART #   | DESCRIPTION                                               |
|------|----------|-----------------------------------------------------------|
| 1    | J-VLV052 | GAS VALVE 24 VAC – GAHP, ACF60.2, AY119                   |
| 2    | J-FLN019 | FLANGE 90° 1/2" NPT F – GAHP, ACF60.2, AY119              |
| 3    | J-GLL150 | ORIFICE-NAT. GAS INCLUDES O-RING & GASKET – GAHP, ACF60.2 |
|      | J-GLL153 | ORIFICE-L.P. GAS INCLUDES O-RING & GASKET – GAHP, ACF60.2 |
| 4    | N-GRG000 | O-RING OR 3087 NBR NT 70 – GAHP, ACF60.2                  |
| 5    | J-GRN040 | ORIFICE GASKET 1" – GAHP, ACF60.2                         |

## CONDENSER / EVAPORATOR COMPONENTS

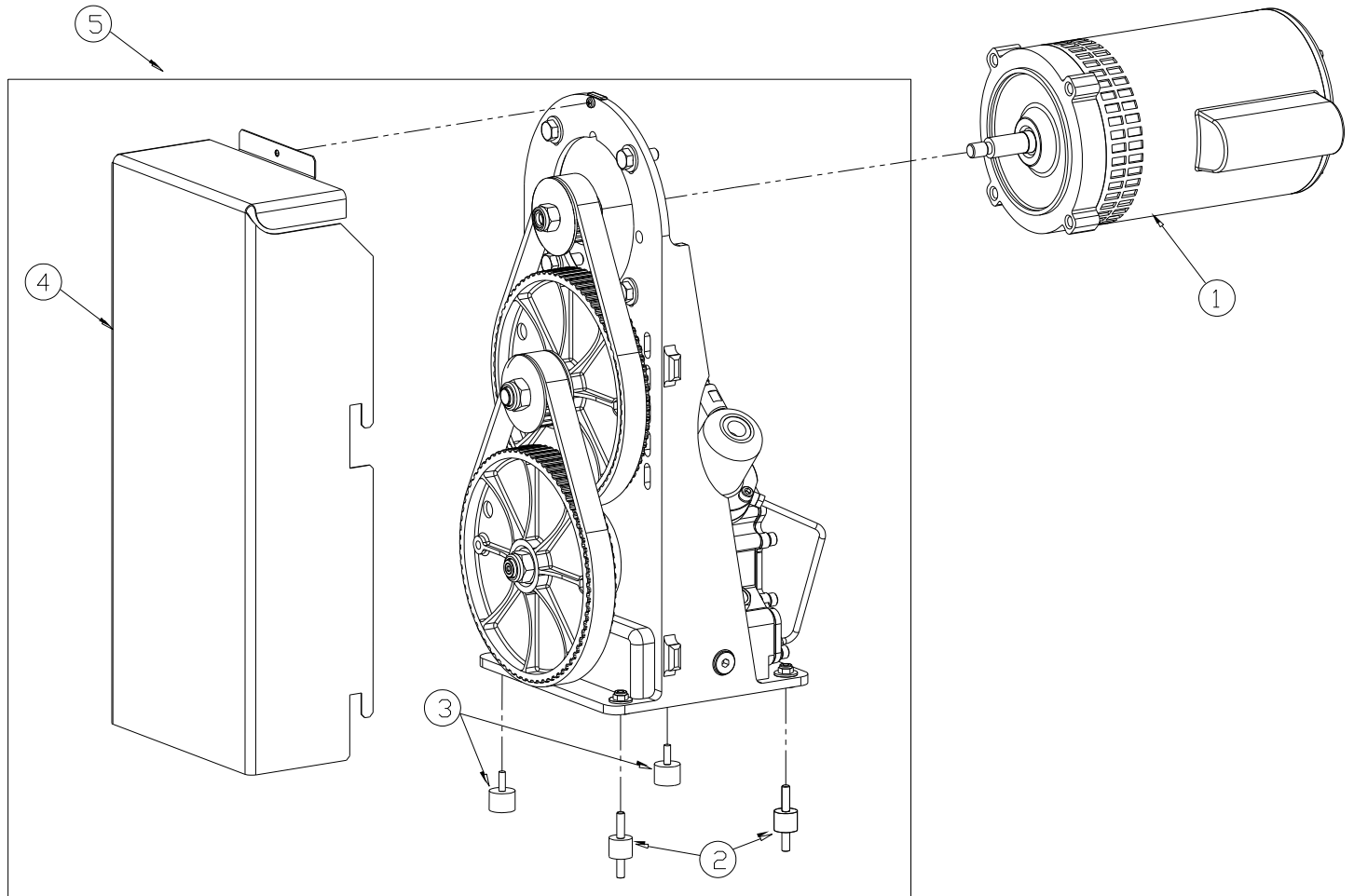


\*Note: Review parts lists for parts not depicted

| NUM. | PART #   | DESCRIPTION                                                               |
|------|----------|---------------------------------------------------------------------------|
| 1    | J-TPP018 | CAP – FAN BLADE – GAHP-A, AR, ACF60.2                                     |
| 2    | V-VNT025 | FAN BLADE-CONDENSER FAN – 660mm LAU – GAHP-A, AR, ACF60.2                 |
| 3    | J-PRT006 | RAIN GUARD – CONDENSER FAN MOTOR – GAHP-A, AR, ACF60.2                    |
| 4    | J-MTR056 | CONDENSER FAN MOTOR – 208-230/60 Hz – GAHP-A, AR, ACF60.2                 |
| 5    | J-STF210 | MOUNTING ARMS – QTY (4) – CONDENSER FAN MOTOR – GAHP-A, AR, ACF60.2       |
| 6    | J-FSC009 | BELLY BAND – CONDENSER FAN MOTOR – GAHP-A, AR, ACF60.2                    |
| -    | J-CND011 | CAPACITOR-CONDENSER FAN MOTOR 12uf 450V – GAHP-A, AR, ACF60.2 - NOT SHOWN |

## SINGLE PISTON HYDRAULIC PUMP COMPONENTS

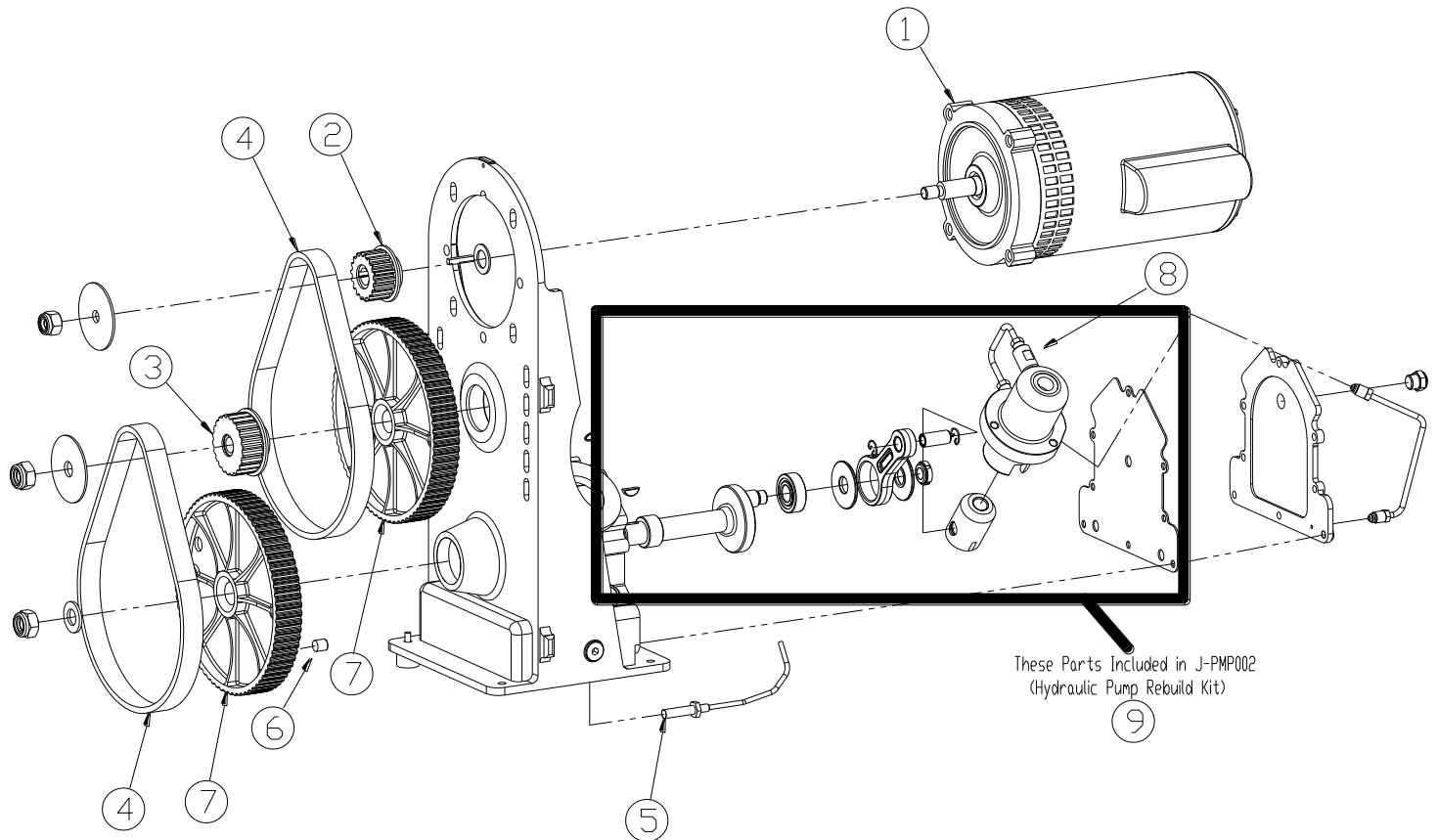
Serial No. 394260043 and Lower



| NUM. | PART #    | DESCRIPTION                                                                                                             |
|------|-----------|-------------------------------------------------------------------------------------------------------------------------|
| 1    | J-MTR055  | HYDRAULIC PUMP DRIVE MOTOR – GAHP, ACF60.2                                                                              |
| 2    | J-NTV011  | HYDRAULIC PUMP MOUNTS-FRONT – GAHP, ACF60.2                                                                             |
| 3    | J-NTV001A | HYDRAULIC PUMP MOUNTS - REAR – GAHP, ACF60 SERIES                                                                       |
| 4    | J-CRT003  | HYDRAULIC PUMP BELT GUARD – GAHP, ACF60.2                                                                               |
| 5    | J-PMP000  | HYDRAULIC PUMP COMPLETE – GAHP, ACF60.2<br>Includes: (1) Pump Assy. (2) Belts, (1) Belt Guard, All Pulleys, Pump Mounts |

## SINGLE PISTON HYDRAULIC PUMP COMPONENTS CONT.

Serial No. 394260043 and Lower

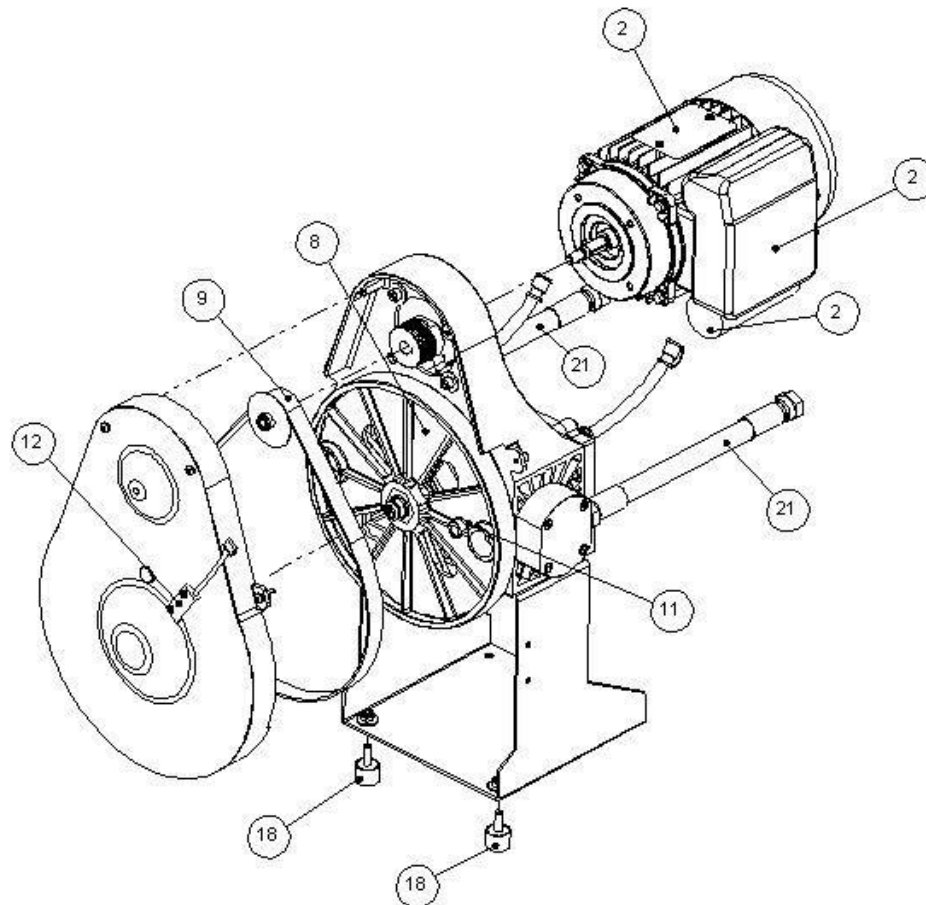


\*Note: Review parts lists for parts not depicted

| NUM. | PART #    | DESCRIPTION                                        |
|------|-----------|----------------------------------------------------|
| 1    | J-MTR055  | HYDRAULIC PUMP DRIVE MOTOR – GAHP, ACF60.2         |
| 2    | J-PLG003  | PULLEY-DRIVE-18 TOOTH – GAHP, ACF60.2              |
| 3    | J-PLG001  | PULLEY-CENTER-22 TOOTH – GAHP, ACF60.2             |
| 4    | J-CNG006  | BELT – OPTIBELT OMEGA HP680 8M H2O – GAHP, ACF60.2 |
| 5    | J-INT006  | HYDRAULIC PUMP ROTATION SENSOR – GAHP, ACF60.2     |
| 6    | N-CLM000  | MAGNET-REED SENSOR-LOWER PULLEY – GAHP, ACF60.2    |
| 7    | J-PLG000A | MIDDLE & LOWER LARGE PULLEY – GAHP, ACF60.2        |
| 8    | J-FLT001  | OIL FILTER – GAHP, ACF60                           |
| 9    | J-PMP002  | HYDRAULIC PUMP REBUILD KIT – GAHP, ACF60.2         |
| -    | 16009-222 | HYDRAULIC PUMP FLUID – 1 GALLON – Not Shown        |
| -    | N-TPP015  | BRASS BREATHING PLUG – GAHP, ACF60.2               |

## DUAL PISTON HYDRAULIC PUMP COMPONENTS

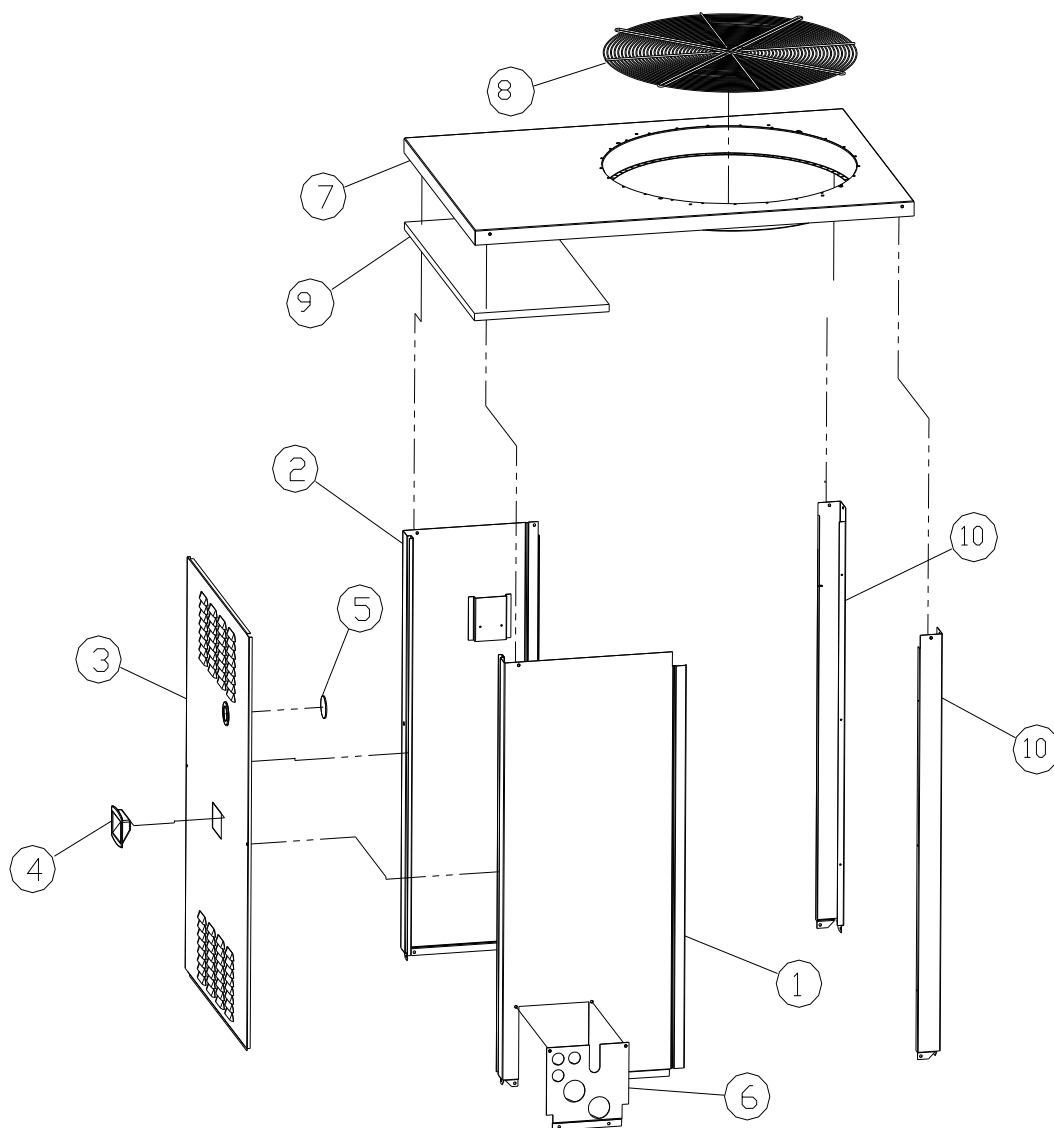
Serial No. 394260044 and Greater



\*Note: Review parts lists for parts not depicted

| NUM. | PART #    | DESCRIPTION                                                                                        |
|------|-----------|----------------------------------------------------------------------------------------------------|
| 2    | J-PMP100  | HYDRAULIC PUMP DRIVE MOTOR – GAHP, ACF60.2                                                         |
| 2    | J-CND039  | CAPACITOR – GAHP, ACF60.2                                                                          |
| 8    | J-PLG013  | PULLEY-DRIVE – GAHP, ACF60.2                                                                       |
| 9    | J-CNG015  | BELT - GAHP, ACF60.2                                                                               |
| 12   | J-INT018  | REED SENSOR - GAHP, ACF60.2                                                                        |
| 11   | J-CLM000  | MAGNET – REED SENSOR - GAHP, ACF60.2                                                               |
| 18   | J-NTR011  | ANTI-VIBRATION PADS - GAHP, ACF60.2                                                                |
| 21   | J-TBO1142 | HYDRAULIC HOSE – GAHP, ACF60.2                                                                     |
| -    | J-OIL123  | HYDRAULIC PUMP OIL – 1 LITER - DUAL PISTON PUMP – GAHP, ACF60.2 Series w/ S# 394260044 and Greater |

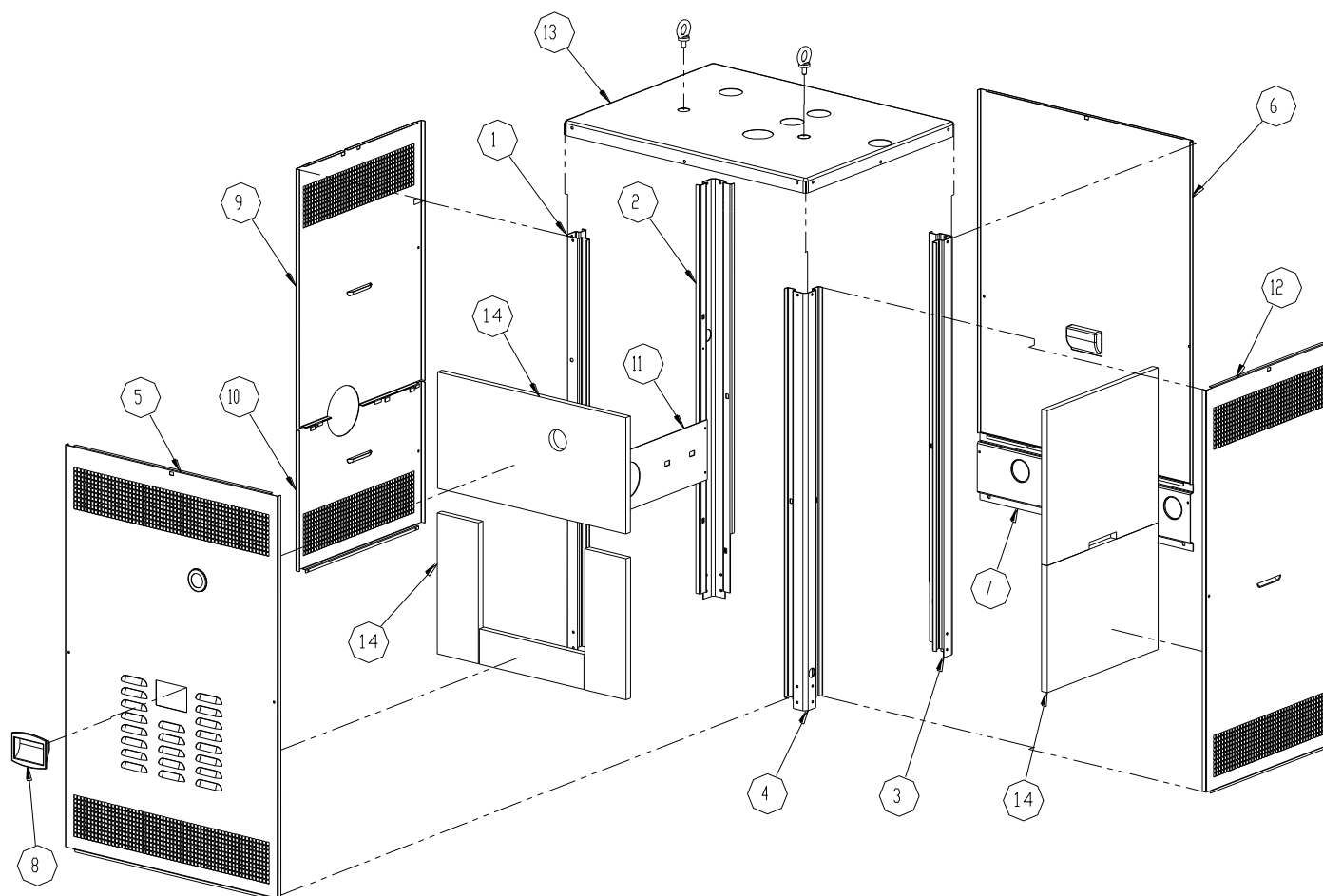
## PANELS



\*Note: Review parts lists for parts not depicted

| NUM. | PART #               | DESCRIPTION                                                                                                        |
|------|----------------------|--------------------------------------------------------------------------------------------------------------------|
| 1    | P-MND020             | FRONT RIGHT SIDE PANEL – GAHP-A, AR, ACF60.2                                                                       |
| 2    | P-MNS035<br>P-MNS032 | FRONT LEFT SIDE PANEL – ACF60.2<br>FRONT LEFT SIDE PANEL – GAHP-AR, A                                              |
| 3    | P-PNF063<br>P-PNF083 | FRONT PANEL – DOOR –SQUARE HANDLE - GAHP, ACF60.2<br>FRONT PANEL – DOOR –OVAL HANDLE - GAHP, ACF60.2               |
| 4    | J-MNG000<br>J-MNG002 | HANDLE – SQUARE -FRONT PANEL DOOR – GAHP, ACF60.2, AY119<br>HANDLE – OVAL -FRONT PANEL DOOR – GAHP, ACF60.2, AY119 |
| 5    | C-12100960           | SIGHT GLASS – GAHP, ACF60.2, AY119                                                                                 |
| 6    | J-PST140<br>J-PST115 | UTILITY PLATE – GAHP-A, AR, ACF60-ST, TK, LB, HT<br>UTILITY PLATE – ACF60-HR                                       |
| 7    | P-CPR048             | TOP PANEL – GAHP-A, AR, ACF60.2                                                                                    |
| 8    | J-GPR000             | FAN GUARD – CONDENSER/ EVAPORATOR FAN MOTOR – GAHP-A, AR, ACF60.2                                                  |
| 9    | J-CBN028             | INSULATION-TOP PANEL FRONT – GAHP-A, AR, ACF60.2                                                                   |
| 10   | P-MDS004             | REAR CORNER POST – GAHP-A, AR, ACF60.2                                                                             |
| -    | N-12914065           | NUT – Used to secure front door /panel – Not Shown                                                                 |

## PANELS CONT.

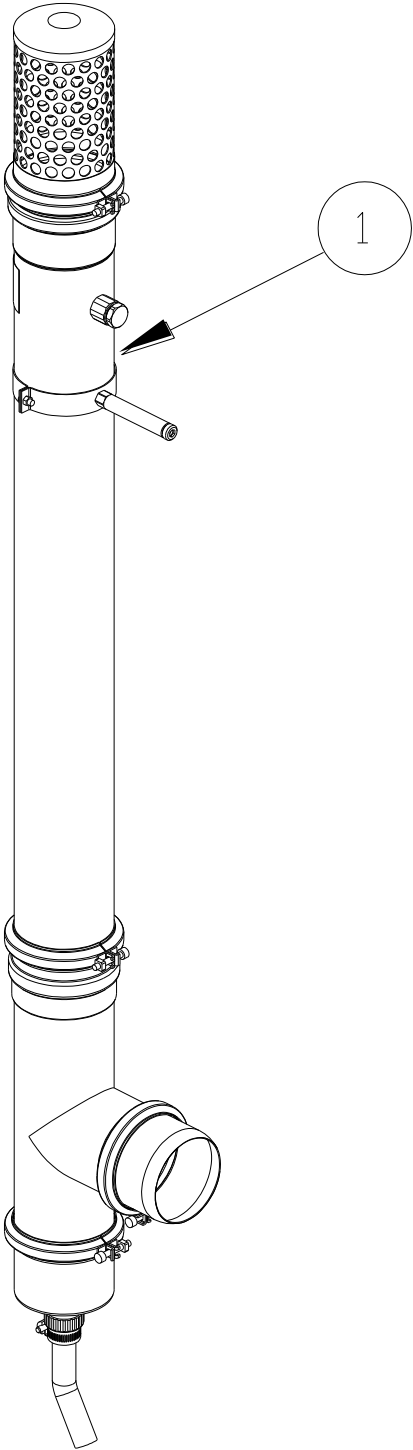


\*Note: Review parts lists for parts not depicted

| NUM. | PART #     | DESCRIPTION                                        |
|------|------------|----------------------------------------------------|
| 1    | P-MNS040   | POST – LEFT FRONT – GAHP-W, WLB                    |
| 2    | P-MNS028   | POST – REAR LEFT – GAHP-W, WLB                     |
| 3    | P-MND016   | POST – REAR RIGHT – GAHP-W, WLB                    |
| 4    | P-MND015   | POST – FRONT RIGHT – GAHP-W, WLB                   |
| 5    | L-PNN051   | PANEL – FRONT DOOR – GAHP-W, WLB                   |
| 6    | L-PNN044   | PANEL – TOP REAR – GAHP-W, WLB                     |
| 7    | L-PST101   | PANEL – BOTTOM REAR – GAHP-W, WLB                  |
| 8    | J-MNG000   | HANDLE – DOOR PANEL – GAHP, ACF60.2, AY119         |
| 9    | L-PNN042   | PANEL – TOP LEFT SIDE – GAHP-W, WLB                |
| 10   | L-PNN043   | PANEL – BOTTOM LEFT SIDE – GAHP-W, WLB             |
| 11   | L-STF145   | FLUE SUPPORT – GAHP-W, WLB                         |
| 12   | L-PNN041   | PANEL – RIGHT SIDE – GAHP-W, WLB                   |
| 13   | P-CPR092   | PANEL – TOP – GAHP-W, WLB                          |
| 14   | O-NSN002   | SOUND ATTENUATION KIT – GAHP-W, WLB                |
| -    | L-BSM021   | BASE PAN – GAHP-W, WLB – Not Shown                 |
| -    | N-12914065 | NUT – Used to secure front door /panel – Not Shown |



**FLUE KIT**



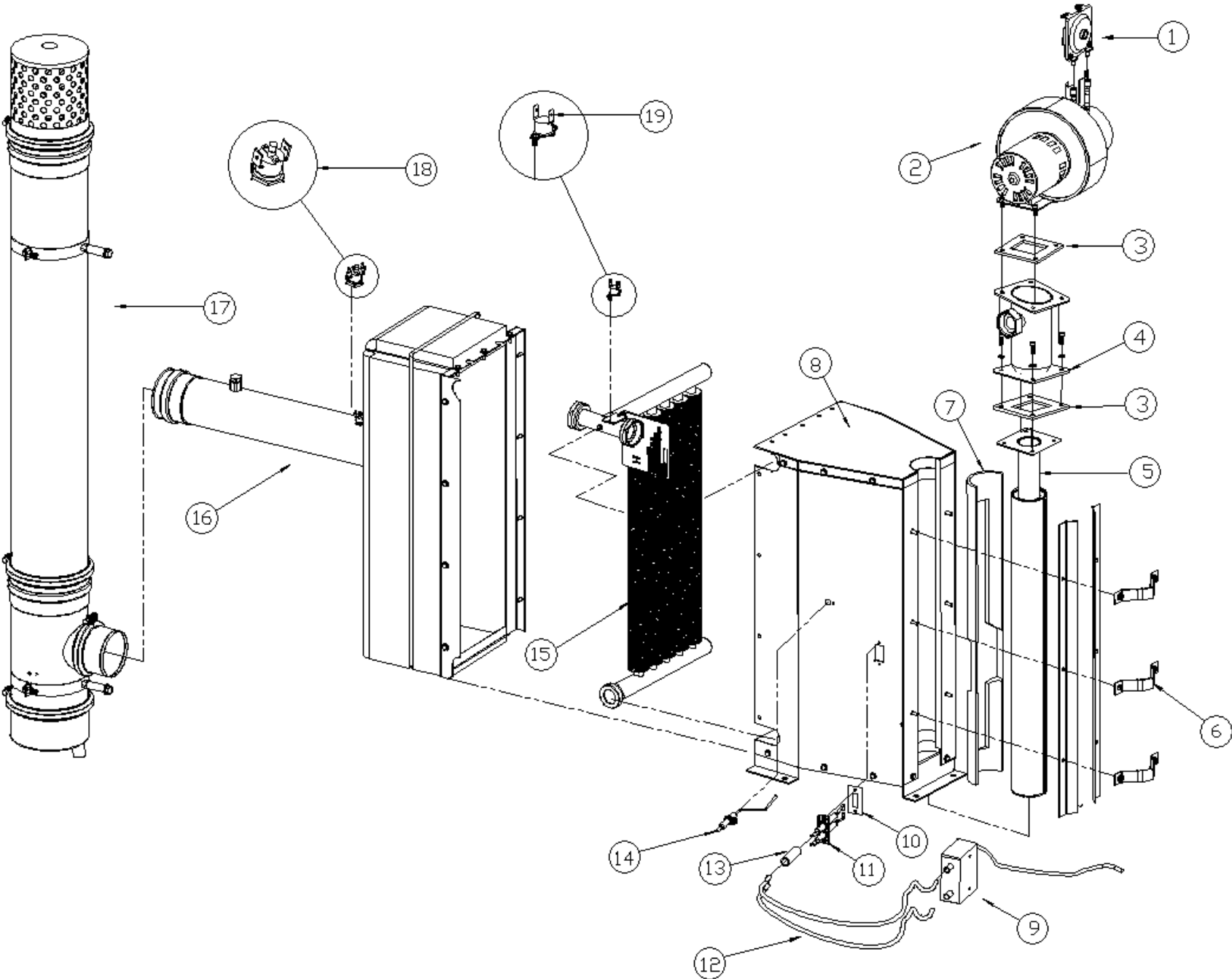
| NUM. | PART #   | DESCRIPTION                           |
|------|----------|---------------------------------------|
| 1    | J-FMI000 | FLUE KIT COMPLETE –GAHP-A, AR, W, WLB |

# **AY119-SA & AYF60-119**

## **HEATER SECTION**

### **PARTS**

**COMBUSTION COMPONENTS & CONTROLS**

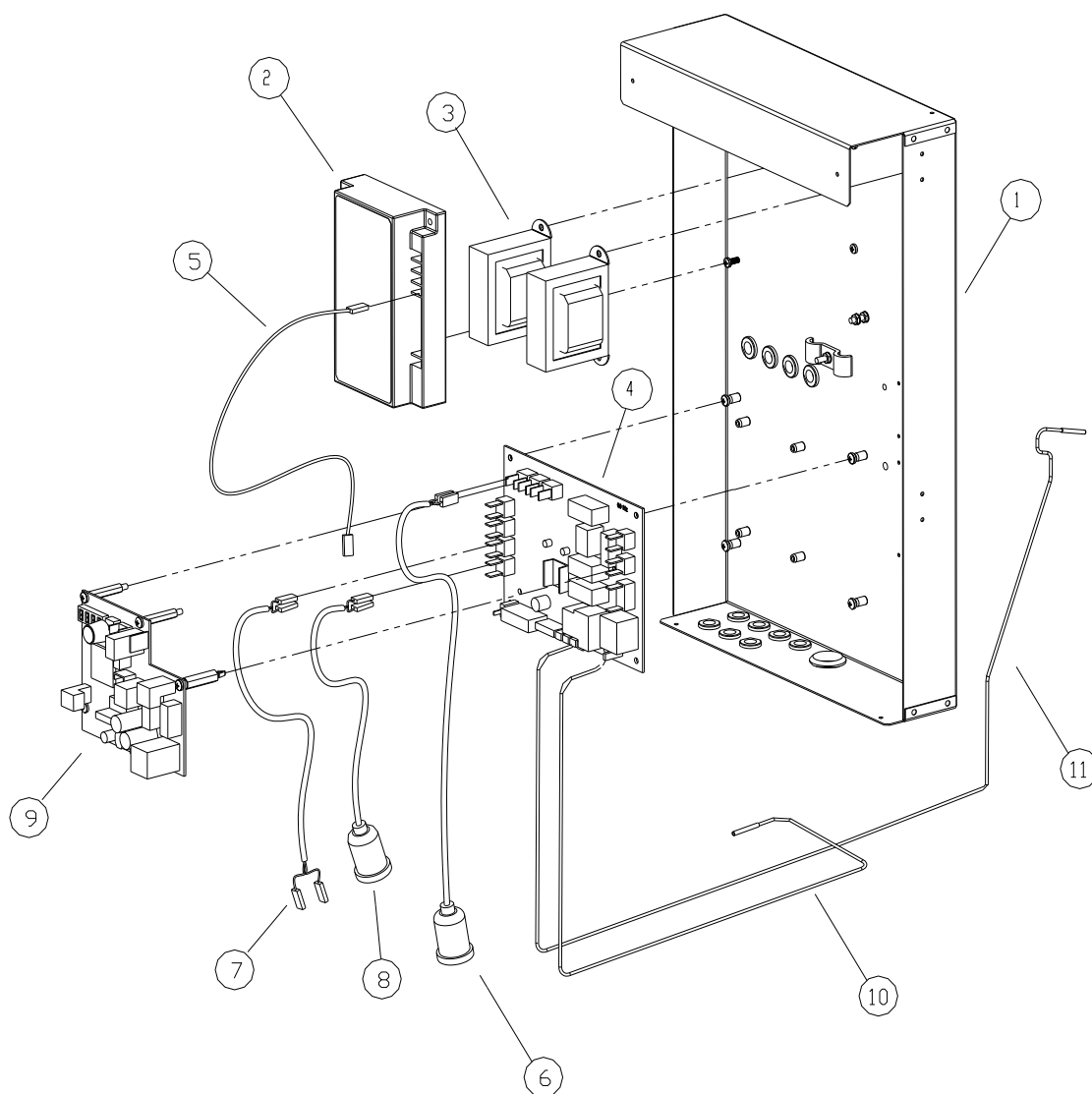


## **COMBUSTION COMPONENTS & CONTROLS LISTING**

\*Note: Review parts lists for parts not depicted

| NUM. | PART #    | DESCRIPTION                                                                                                                                                                                                                               |
|------|-----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1    | J-PRA016  | AIR PRESSURE DIFFERENTIAL SWITCH Pa 193 – AY119                                                                                                                                                                                           |
| 2    | J-SFF047  | COMBUSTION BLOWER ASSY. – AY119<br>Includes: Motor, Scroll Housing, Blower Wheel                                                                                                                                                          |
| 3    | J-GRN028  | BURNER UNION GASKET – AY119, GAHP, ACF60.2                                                                                                                                                                                                |
| 4    | J-DFF006  | GAS MIXING TUBE – AY119                                                                                                                                                                                                                   |
| 5    | J-BRC000A | BURNER KIT – AY119<br>Includes: (1) J-BRC000A Burner, (1) J-CMB029 Burner Gasket, (1) J-GRN028 Burner Union Gasket, Straps                                                                                                                |
| 6    | J-MFS000  | BURNER STRAP – Qty 1 – AY119, GAHP, ACF60                                                                                                                                                                                                 |
| 7    | J-CBN029  | BURNER GASKET – AY119, GAHP, ACF60.2<br>Recommend Replacement of J-GRN028 Burner Union Gasket at same time - ALT. 16009-716                                                                                                               |
| 8    | J-CMB140  | COMBUSTION CHAMBER COMPLETE – AY119<br>Includes: (1) J-BRC000A Burner, (1) J-CMB029 Burner Gasket, (1) J-GRN028 Burner Union Gasket, (1) J-CSM006 Hot Water Heat Exchanger, (1) E-LTT047 Igniter, (1) E-LTT035 Flame Sensor, All Hardware |
| 9    | J-TRS011  | IGNITION TRANSFORMER – AY119, GAHP, ACF60.2                                                                                                                                                                                               |
| 10   | J-GRN054  | GASKET – IGNITER ELECTRODE ONLY – AY119, GAHP, ACF60.2                                                                                                                                                                                    |
| 11   | J-LTT047  | IGNITION ELECTRODE – AY119, GAHP, ACF60.2<br>Includes: (1) Electrode, (1) Igniter Gasket, (1) Ceramic Insulator, (2) Ignition Wires                                                                                                       |
| 12   | J-CVO124  | IGNITION WIRES – TRANSFORMER TO ELECTRODE – 2 PER – AY119, GAHP, ACF60.2                                                                                                                                                                  |
| 13   | J-CSL000  | SPARK INSULATOR – AY119, GAHP, ACF60.2                                                                                                                                                                                                    |
| 14   | J-LTT035  | FLAME SENSOR – AY119<br>Includes: (1) Flame Sensor, (1) Screw - Not Shown                                                                                                                                                                 |
| 15   | J-SCM006  | HOT WATER HEAT EXCHANGER – AY119                                                                                                                                                                                                          |
| 16   | J-SCR002  | FLUE CONNECTOR PIPE – CHAMBER TO PANEL – AY119                                                                                                                                                                                            |
| 17   | J-FMI002  | FLUE KIT COMPLETE – AY119                                                                                                                                                                                                                 |
| 18   | J-TLT015  | HIGH TEMP EXHAUST LIMIT – AY119                                                                                                                                                                                                           |
| 19   | J-TLT017  | HIGH TEMP WATER LIMIT – AY119                                                                                                                                                                                                             |
| -    | J-CVO199  | FLAME SENSOR WIRE – AY119 – Not Shown - ALT: J-CBL190                                                                                                                                                                                     |
| -    | N-SPP005  | CLAMP – 2 PIECE FOR LOW & HIGH CONNECTION OF AY FLUE TO PANEL                                                                                                                                                                             |
| -    | N-VSS018  | LONG BOLT FOR FLUE KIT (J-FMI002)                                                                                                                                                                                                         |

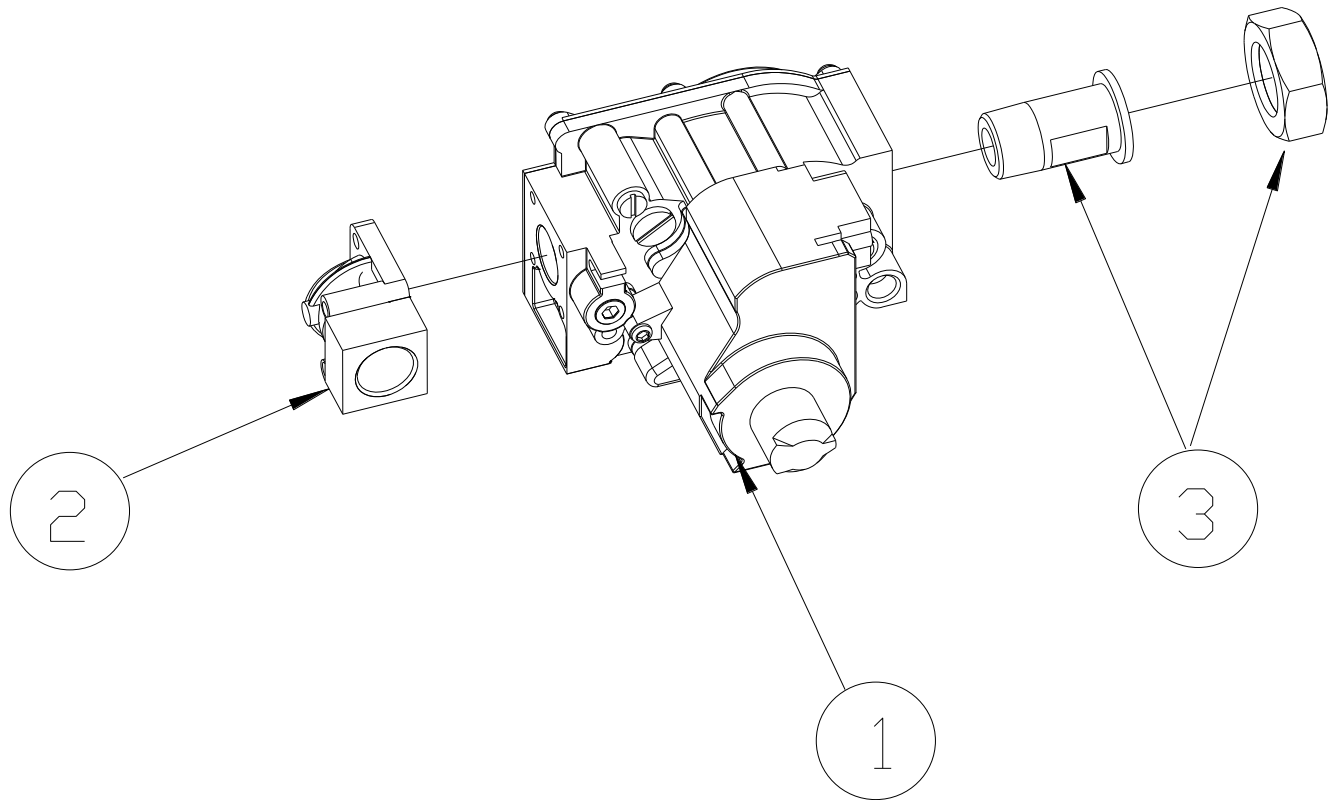
## CONTROL COMPONENTS



\*Note: Review parts lists for parts not depicted

| NUM. | PART #    | DESCRIPTION                                              |
|------|-----------|----------------------------------------------------------|
| 1    | J-BQD022  | CONTROL PANEL BASE – AY119                               |
| 2    | J-CNT031  | IGNITION CONTROL – FENWAL – AY119, GAHP, ACF60.2         |
| 3    | J-TRS013  | TRANSFORMER – AY119, GAHP, ACF60.2                       |
| 4    | J-SLT032  | CONTROL BOARD – HEATING – S70CF24 – AY119                |
| 5    | J-CVO199  | FLAME SENSOR WIRE – FLS – AY119 - ALT: J-CBL190          |
| 6    | J-CVO198  | FLUE TEMP LIMIT SWITCH WIRE – TF – AY119                 |
| 7    | J-CVO197  | PRESSURE DIFFERENTIAL SWITCH WIRE – PD – AY119           |
| 8    | J-CVO196  | HIGH WATER TEMP LIMIT SWITCH – TL – AY119                |
| 9    | J-SLT028  | CONTROL BOARD INSERT FOR STAND ALONE HEATERS – AY119-SA  |
| 10   | J-SND020  | SENSOR – INLET WATER TEMP – AY119                        |
| 11   | J-SND019  | SENSOR – OUTLET WATER TEMP – AY119                       |
| -    | 16009-757 | 2 Amp Fuses – Qty (5)per kit – All Models – Not Shown    |
| -    | 16009-758 | 3.15 Amp Fuses – Qty (5)per kit – All Models – Not Shown |
| -    | 16009-759 | 10 Amp Fuses – Qty (5)per kit – All Models – Not Shown   |

## GAS VALVE COMPONENTS

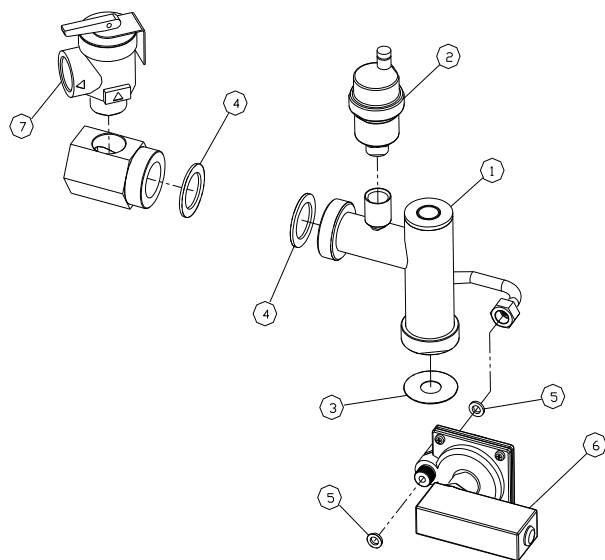


\*Note: Review parts lists for parts not depicted

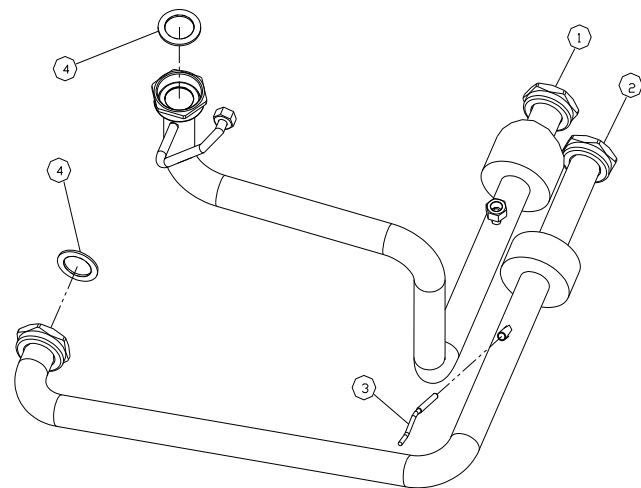
| NUM. | PART #   | DESCRIPTION                                     |
|------|----------|-------------------------------------------------|
| 1    | J-VLV052 | GAS VALVE 24 VAC – AY119, GAHP, ACF60.2         |
| 2    | J-FLN019 | FLANGE 90° ½" NPT F – AY119, GAHP, ACF60.2      |
| 3    | J-DCR004 | CONNECTOR TUBE & NUT– CH36 1" D.23.5 – AY119    |
| -    | J-GLL156 | GAS ORIFICE – NAT.- ½" NPT – AY119 – NOT SHOWN  |
| -    | J-GLL107 | GAS ORIFICE – L.P. – ½" NPT – AY119 – NOT SHOWN |

**WATER LINE COMPONENTS**

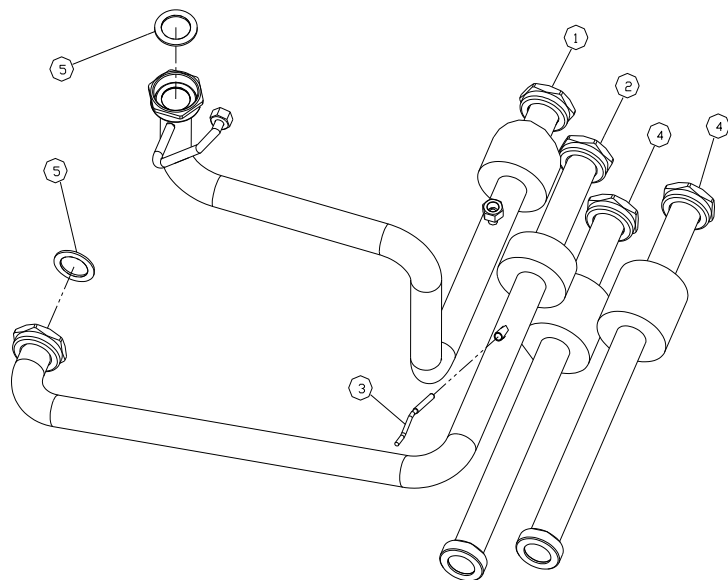
Common to All AY Configurations



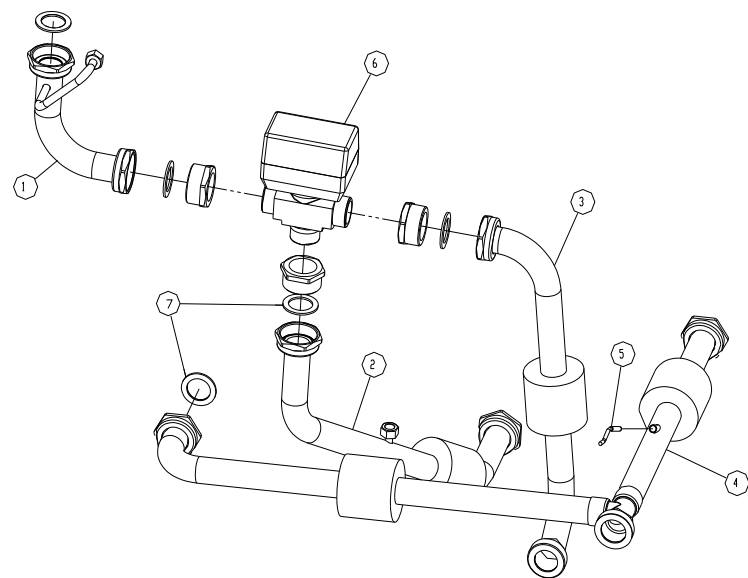
STAND ALONE AY119 PIPING



AYF60 - 4-PIPE CONFIGURATION



AYF60 - 2-PIPE CONFIGURATION



## **WATER LINE COMPONENTS LISTING**

### Common to All AY Configurations

| NUM. | PART #   | DESCRIPTION                                      |
|------|----------|--------------------------------------------------|
| 1    | J-TBO266 | WATER PIPE – OUTLET 90 – AY119                   |
| 2    | J-VLV000 | AIR BLEED VALVE – AUTO 3/8" – AY119, GAHP, ACF60 |
| 3    | J-DFR044 | WATER ORIFICE – AY119                            |
| 4    | J-RND017 | TEFLON WASHER 11/4" – AY119, GAHP, ACF60.2       |
| 5    | J-RND028 | TEFLON WASHER – TUBE TO PRESSURE DIFF. – AY119   |
| 6    | J-FLS008 | PRESSURE DIFFERENTIAL FLOW SWITCH – AY119        |
| 7    | J-VLV010 | HIGH PRESSURE RELIEF VALVE – 45 LBS ASME - AY119 |

### Stand Alone AY119 Piping

| NUM. | PART #   | DESCRIPTION                                                 |
|------|----------|-------------------------------------------------------------|
| 1    | J-TBO538 | WATER PIPE – OUTLET – 4-PIPE / STAND ALONE – AY119, AYF60.2 |
| 2    | J-TBO540 | WATER PIPE – INLET – 4-PIPE / STAND ALONE – AY119, AYF60.2  |
| 3    | J-SND020 | WATER TEMP INLET SENSOR THRC – AY119, AYF60.2               |
| 4    | J-RND017 | TEFLON WASHER 1 ¼" – AY119, GAHP, ACF60.2                   |

### AYF60 4-Pipe Configuration

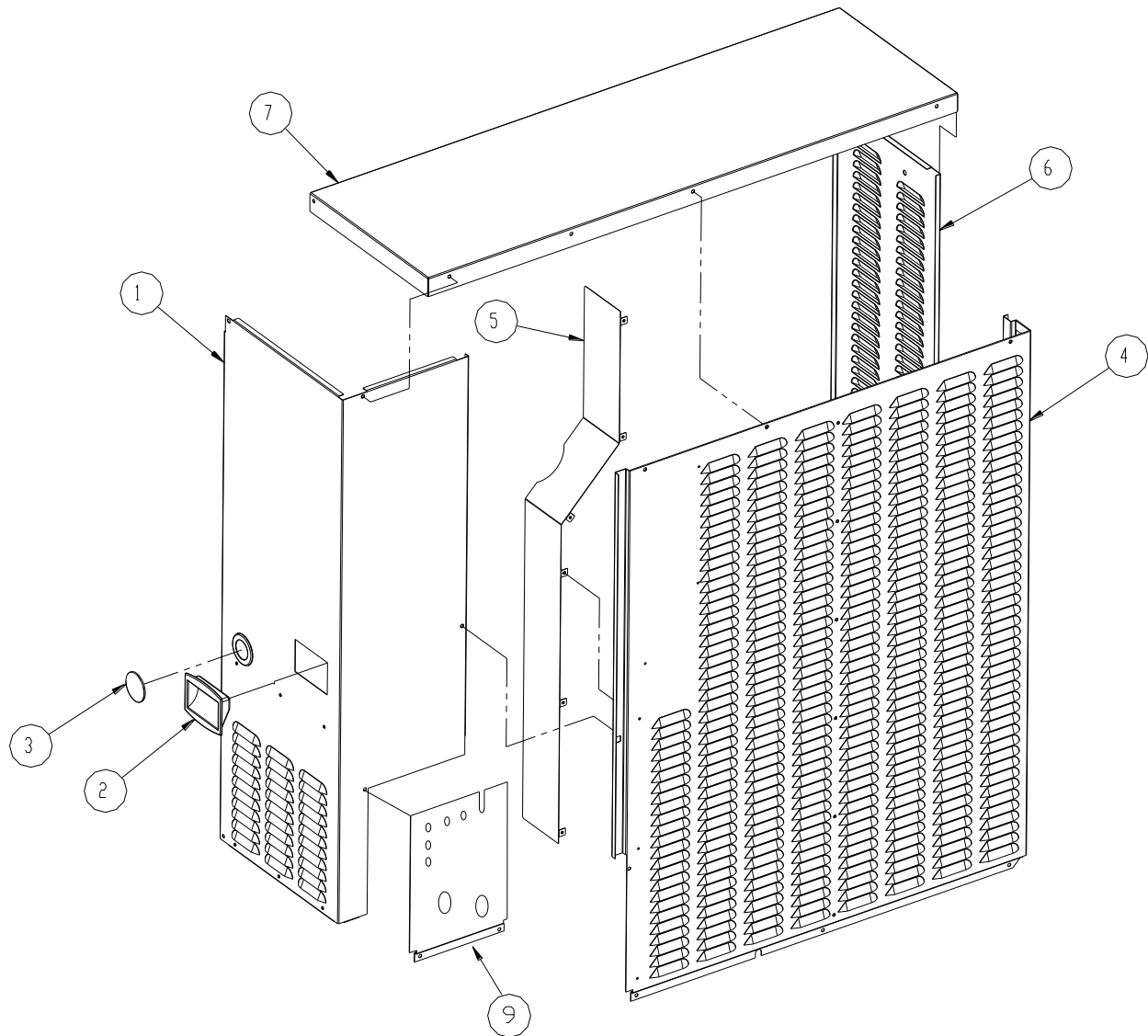
| NUM. | PART #   | DESCRIPTION                                                 |
|------|----------|-------------------------------------------------------------|
| 1    | J-TBO538 | WATER PIPE – OUTLET – 4-PIPE / STAND ALONE – AY119, AYF60.2 |
| 2    | J-TBO540 | WATER PIPE – INLET – 4-PIPE / STAND ALONE – AY119, AYF60.2  |
| 3    | J-SND020 | WATER TEMP INLET SENSOR THRC – AY119, AYF60.2               |
| 4    | J-TBO542 | WATER PIPE – CHILLER CONNECTION – 4-PIPE – AY119, AYF60.2   |
| 5    | J-RND017 | TEFLON WASHER 1 ¼" – AY119, GAHP, ACF60.2                   |

### AYF60 2-Pipe Configuration

| NUM. | PART #   | DESCRIPTION                               |
|------|----------|-------------------------------------------|
| 1    | J-TBO267 | WATER PIPE – ELBOW OUTLET – AYF60.2       |
| 2    | J-TBO526 | WATER PIPE – VALVE TO PLATE – AYF60.2     |
| 3    | J-TBO264 | WATER PIPE – CHILLER TO VALVE – AYF60.2   |
| 4    | J-TBO530 | WATER PIPE – CHILLER TO PLATE – AYF60.2   |
| 5    | J-SND020 | WATER TEMP SENSOR – INLET – AYF60.2       |
| 6    | J-VDV000 | 3-WAY VALVE & ACTUATOR – AYF60.2          |
| 7    | J-RND017 | TEFLON WASHER 1 ¼" – AY119, GAHP, ACF60.2 |



## PANELS



\*Note: Review parts lists for parts not depicted

| NUM. | PART #     | DESCRIPTION                                      |
|------|------------|--------------------------------------------------|
| 1    | L-PNN087   | FRONT PANEL – AY119                              |
| 2    | J-MNG000   | HANDLE – FRONT PANEL DOOR – AY119, GAHP, ACF60.2 |
| 3    | C-12100960 | SIGHT GLASS – AY119, GAHP, ACF60.2               |
| 4    | L-PNN093   | RIGHT SIDE PANEL – AY119                         |
| 5    | L-DFL041   | SHIELD – AY119                                   |
| 6    | L-PNN026   | REAR PANEL – AY119                               |
| 7    | P-PSP069   | TOP PANEL – AY119                                |
| 8    | L-PNN090   | LEFT SIDE PANEL – AY119-SA ONLY                  |
| 9    | L-PST085   | UTILITY PLATE – AYF60-119/2 (2-PIPE)             |
| 9    | L-PST086   | UTILITY PLATE – AYF60-119/4 (4-PIPE)             |
| 9    | L-PST129   | UTILITY PLATE – AY119-SA                         |
| -    | P-PPR005   | AIR BAFFLE – AYF60 SERIES – Not Shown            |
| -    | L-BSM011   | BASE PAN – AY119 – Not Shown                     |

**To order replacement ROBUR parts please contact your Local ROBUR representative or contractor. To locate your local representative or contractors please contact ROBUR Corporation toll free at (888) 424-1800 or (812) 424-1800 for assistance.**

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