

Williamson-Thermoflo



Boiler Service Parts

Service Parts Catalog

Effective August 1, 2019

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Williamson-Thermoflo products must be serviced only by a qualified heating installer/service technician.

BEFORE servicing, read all instructions in the product manual and all other information shipped with the product and the repair parts kit.

Failure to comply could result in severe personal injury, death or substantial property damage.

Model
FreeStyle®
Series 2
Gas-fired Water Boilers

Miscellaneous parts and kits
80/120/155

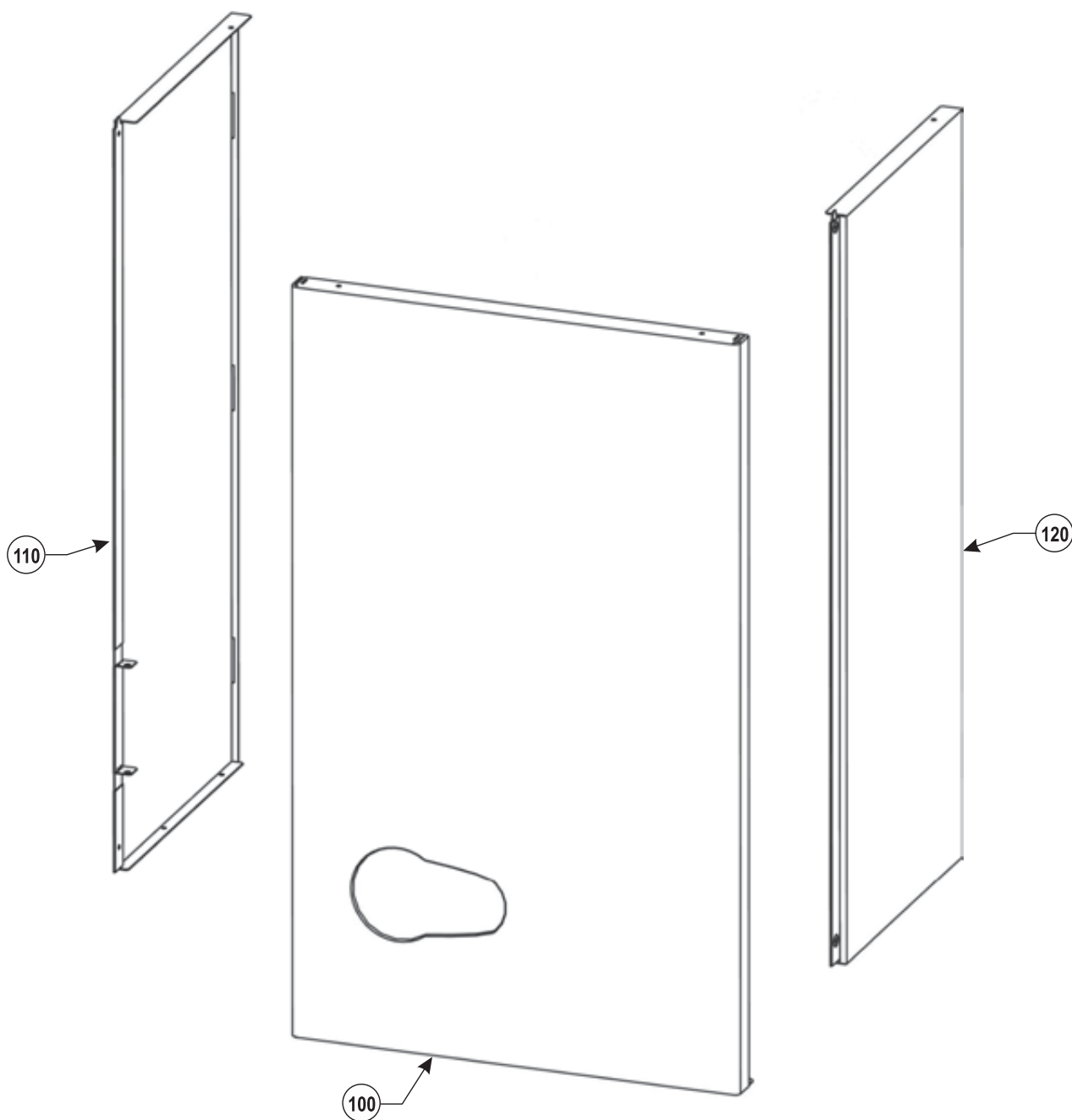
Part numbers for this model are shown below.

Description	Part Number
Antifreeze, Sentinel X500	592-900-029WT
Corrosion inhibitor, Sentinel X100	592-900-002WT
Quick Test Kit, Sentinel X100	592-900-005WT
Cleaner, Sentinel X400	592-900-003WT
Wall-mount kit (supplied with boiler) — wall mount bracket and hardware	640-000-044WT
Condensate trap kit (supplied with boiler) — condensate trap assembly and flexible line	640-000-073WT
Condensate neutralizer kit	383-500-631WT
Annual Maintenance Kit 80/120	640-000-114WT
Annual Maintenance Kit 155	640-000-112WT
Direct Exhaust Venting Kit Includes: Cover plates, vent screens and mounting hardware for 2" and 3" vent sizes.	640-000-135
Sidewall separate pipes vent/air termination kits (includes two cover plates) Kit for 2" PVC vent and air pipes Kit for 3" PVC vent and air pipes Kit for 3" AL29-4C and air pipe	383-700-171WT 383-500-100WT 383-700-172WT
PVC concentric vent kit — horizontal or vertical (includes components for concentric assembly) Kit for 2" PVC vent and air pipes Kit for 3" PVC vent and air pipes	383-700-167WT 383-500-350WT
Bird screens (1 screen each) For 2" PVC vent and air pipes For 3" PVC vent and air pipes	383-500-106WT 383-500-105WT

Description	Part Number
M&G Simpson-Duravent PolyPro SIDEWALL concentric vent/air kit (color: white) 2" polypropylene pipe 3" polypropylene pipe	2PPS-HK 3PPS-HK
M&G Simpson-Duravent PolyPro VERTICAL concentric vent/air kit; color = black (part number shown) or terra cotta (add -TC suffix) 2" polypropylene pipe 3" polypropylene pipe	2PPS-VK 3PPS-VK
M&G Simpson-Duravent PolyPro SIDEWALL separate air and vent pipes 2" polypropylene pipe 3" polypropylene pipe	2PPS-HTP 3PPS-HTP
Centrotherm INNOFLUE SIDEWALL concentric vent/air kit 3" polypropylene pipe 2" stainless steel/pp pipe 3" stainless steel/pp pipe	ICWT352 ICWS2413 ICWS3513
Centrotherm INNOFLUE VERTICAL concentric vent/air kit 2" polypropylene pipe 3" polypropylene pipe	ICRT2439 ICRT3539

⚠ WARNING The boiler contains ceramic fiber and fiberglass materials. Use care when handling these materials per instructions on page 103 of this manual. Failure to comply could result in severe personal injury.

Item	Name	Part Number
100	Jacket door	640-000-067
110	Jacket left side	640-000-065
120	Jacket right side	640-000-066

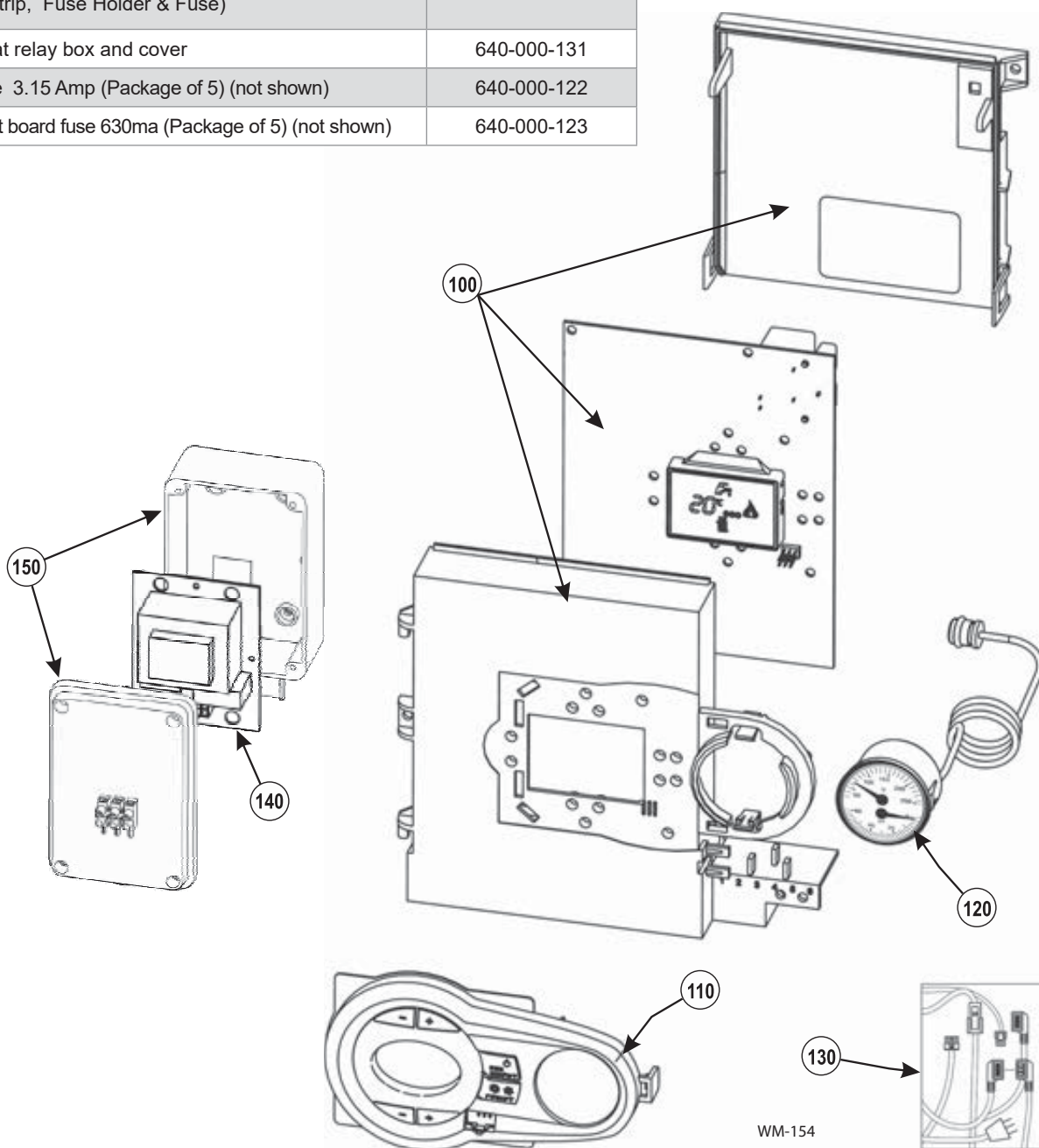


Model
FreeStyle®
Series 2
 Gas-fired Water Boilers

Control and electrical assemblies
80/120/155

Part numbers for this model are shown below.

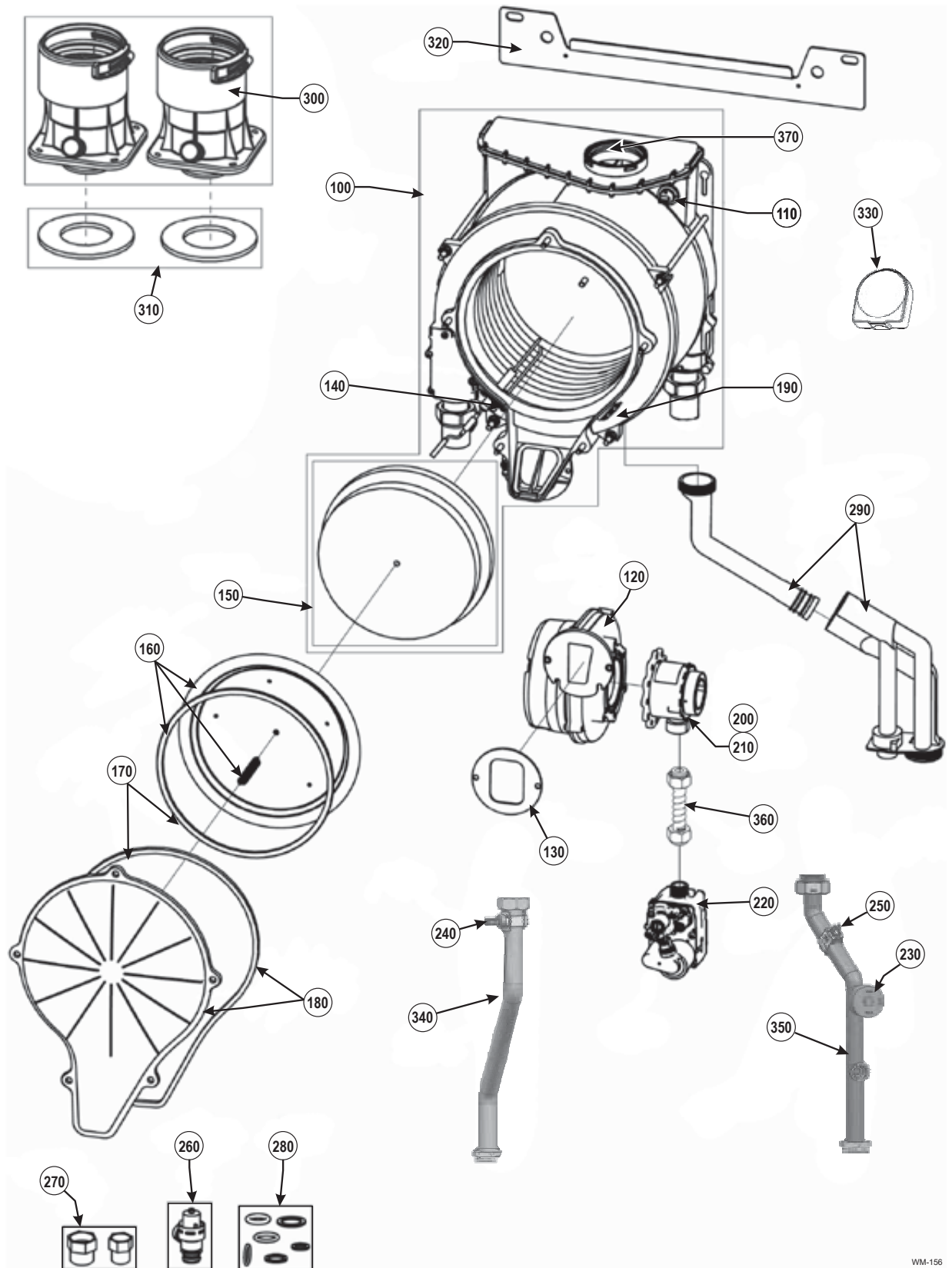
Item	Name	Part Number
100	Control module assembly	640-000-003WT
110	Control module display cover	640-000-004
120	Pressure-temperature assembly	640-000-006
130	Wire harness assembly - Combi - 80/120	640-000-005
	Wire harness assembly - Combi - 155	640-000-085
	Wire harness assembly - Heating Only	640-000-053
	Blower wiring adapter - Heating Only - 155	640-000-103
140	PCB only (includes Circuit board, Transformer, Relay, Terminal strip, Fuse Holder & Fuse)	640-000-062
150	Thermostat relay box and cover	640-000-131
160	Board fuse 3.15 Amp (Package of 5) (not shown)	640-000-122
170	Thermostat board fuse 630ma (Package of 5) (not shown)	640-000-123



Item	Name	Part Number	Model	
			FS-80	FS-120
100	Heat Exchanger	640-000-116	●	—
		640-000-117	—	●
110	Flue Sensor Temperature	640-000-011	●	●
120	Blower Assembly	640-000-020WT	●	●
130	Blower Gasket	640-000-021	●	●
140	Ignitor	640-000-109WT	●	●
150	Central Heat Exchanger Insulation	640-000-010	●	●
160	Burner	640-000-012WT	●	●
170	Burner Gasket Set	640-000-013	●	●
180	Burner Cover	640-000-016	●	●
190	Inspection Glass	640-000-015	●	●
200	Kit - Natural Gas Conversion	640-000-022WT	●	—
		640-000-023WT	—	●
210	Kit - Liquefied Petroleum (Propane) Gas Conversion	640-000-024WT	●	—
		640-000-025WT	—	●
220	Gas Valve VK8205V	640-000-037WT	●	●
230	Circulator FX3-FP	640-000-017	●	●
240	Air Separator	640-000-018	●	●
250	Water Pressure Switch	640-000-019	●	●
260	Flow Meter	640-000-026	●	●
270	Water Filter	640-000-027WT	●	●
280	Valve 3- Way	640-000-028	●	●
290	Motor 3- Way Valve	640-000-029	●	●
300	N/R Valve Fitting	640-000-030	●	●
310	DHW R. Plate Connection	640-000-031WT	●	●
320	Plate Exchanger 16P.	640-000-032WT	●	—
	Plate Exchanger 20P.	640-000-033WT	—	●
330	CH Temperature Probe DP	640-000-034	●	●
340	CH Temperature Probe US	640-000-035	●	●
350	DHW Temperature Probe US	640-000-036	●	●
360	Relief Valve 3/4"	640-000-038	●	●
370	NPT Adapters	640-000-039	●	●
380	Gasket Set	640-000-007	●	●
390	Condensate Drain Trap	640-000-068	●	●
400	Vent Adapters (2 adapters in kit)	640-000-107	●	●
410	Gaskets - Vent Adapter (2 gaskets in kit)	640-000-108	●	●
420	Wall Mount Bracket	640-000-044	●	●
430	Outdoor Temperature Sensor	640-000-043	●	●
440	CH - Flow Pipe	640-000-124	●	—
		640-000-125	—	●
450	CH - Return Pipe	640-000-126	●	●
460	Bypass Pipe	640-000-049	●	●
470	Flow Meter Pipe	640-000-050	●	●
480	DHW Outlet Pipe	640-000-051	●	●
490	Gas Pipe	640-000-072	●	—
		640-000-130	—	●
500	Flow Regulator (4 GPM) (Restrictor)	640-000-110	●	●
510	Gasket - Heat Exchanger Vent	640-000-136	●	●

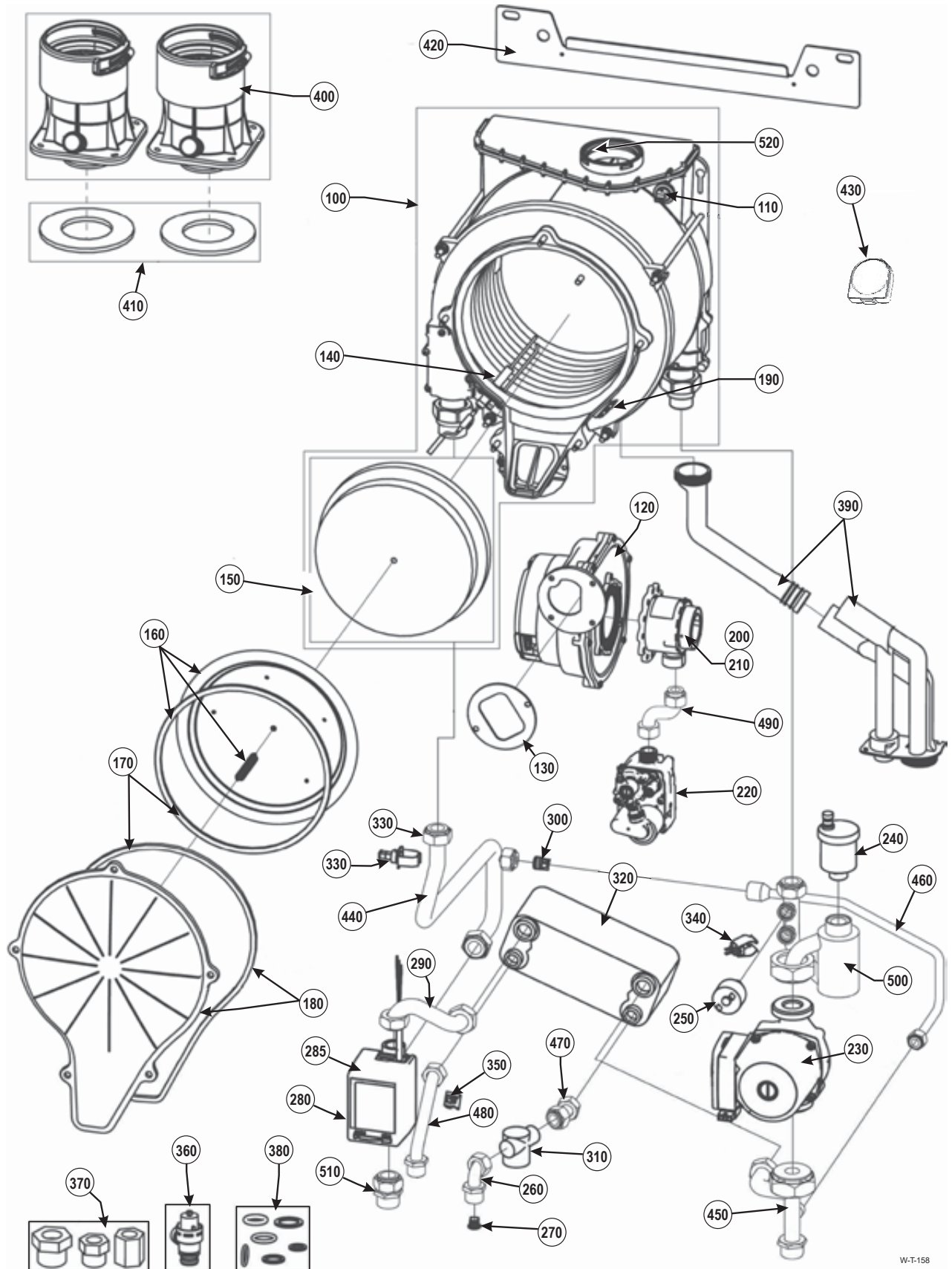


Item	Name	Part Number	Model	
			FS-80	FS-120
100	Heat Exchanger	640-000-116	●	—
		640-000-117	—	●
110	Flue Sensor Temperature	640-000-011	●	●
120	Blower Assembly	640-000-020WT	●	●
130	Blower Gasket	640-000-021	●	●
140	Ignitor	640-000-109WT	●	●
150	Central Heat Exchanger Insulation	640-000-010	●	●
160	Burner	640-000-012WT	●	●
170	Burner Gasket Set	640-000-013	●	●
180	Burner Cover	640-000-016	●	●
190	Inspection Glass	640-000-015	●	●
200	Kit - Natural Gas Conversion	640-000-022WT	●	—
		640-000-023WT	—	●
210	Kit - Liquefied Petroleum (Propane) Gas Conversion	640-000-024WT	●	—
		640-000-025WT	—	●
220	Gas Valve VK8205V	640-000-037WT	●	●
230	Water Pressure Switch	640-000-019	●	●
240	CH Temperature Probe DP	640-000-034	●	●
250	CH Temperature Probe US	640-000-035	●	●
260	Relief Valve 3/4"	640-000-038	●	●
270	NPT Adapters	640-000-039	●	●
280	Gasket Set	640-000-055	●	●
290	Condensate Drain Trap	640-000-073	●	●
300	Vent Adapters (2 adapters in kit)	640-000-107	●	●
310	Gaskets - Vent Adapter (2 gaskets in kit)	640-000-108	●	●
320	Wall Mount Bracket	640-000-044	●	●
330	Outdoor Temperature Sensor	640-000-043	●	●
340	CH - Flow Pipe	640-000-127	●	—
		640-000-128	—	●
350	CH - Return Pipe	640-000-129	●	●
360	Gas Pipe	640-000-072	●	—
		640-000-130	—	●
370	Gasket - Heat Exchanger Vent	640-000-136	●	●



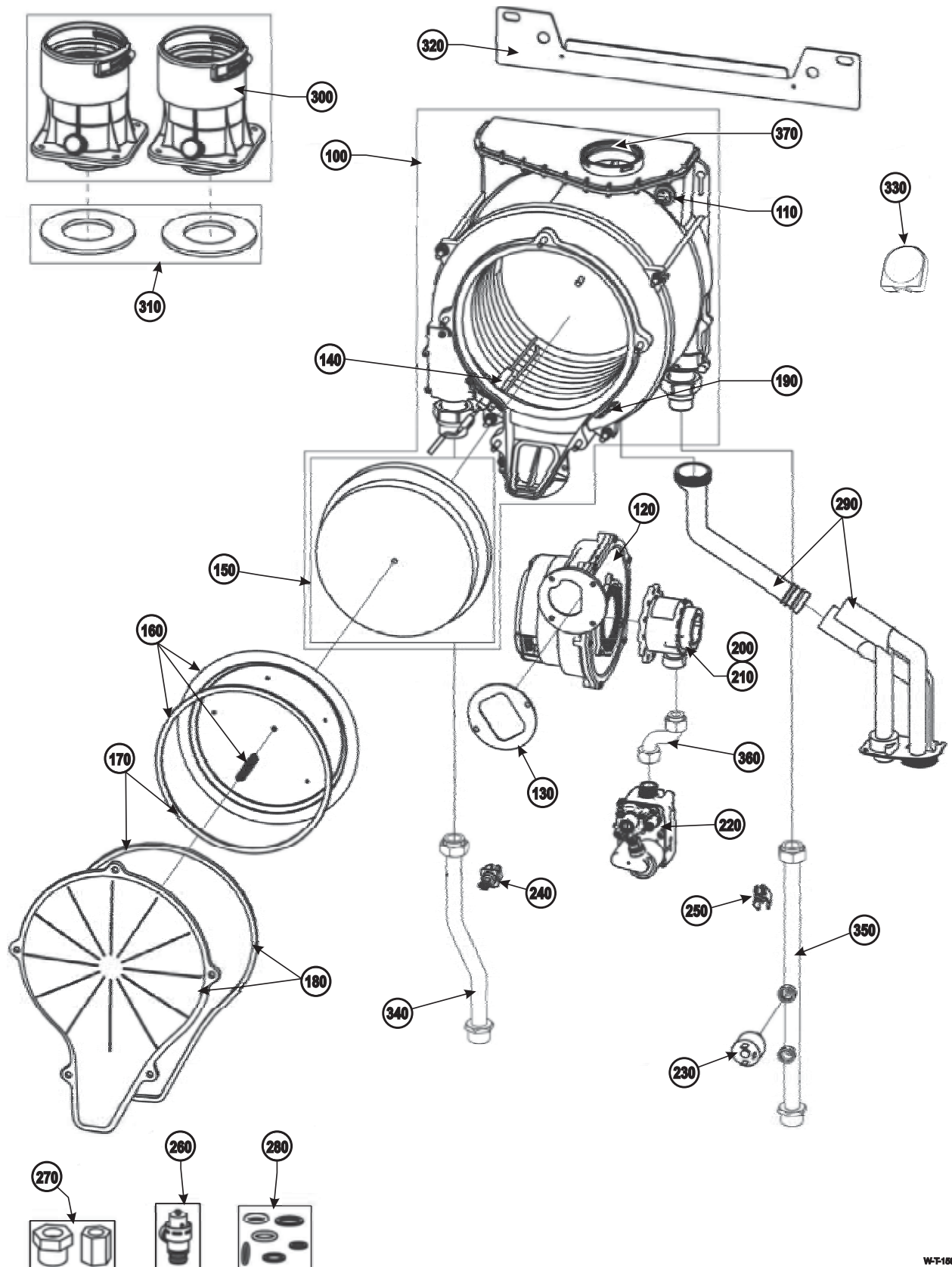
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Item	Name	Part Number
100	Heat Exchanger	640-000-118
110	Flue Sensor Temperature	640-000-011
120	Blower Assembly	640-000-081WT
130	Blower Gasket	640-000-021
140	Ignitor	640-000-109WT
150	Central Heat Exchanger Insulation	640-000-010
160	Burner	640-000-012WT
170	Burner Gasket Set	640-000-013
180	Burner Cover	640-000-016
190	Inspection Glass	640-000-015
200	Kit - Natural Gas Conversion	640-000-082WT
210	Kit - Liquefied Petroleum (Propane) Gas Conversion	640-000-133WT
220	Gas Valve VK8205V	640-000-037WT
230	Circulator UPS2578	640-000-086
240	Air Separator	640-000-087
250	Water Pressure Switch	640-000-019
260	DHW Inlet Pipe	640-000-098
270	Water Filter	640-000-027
280	Valve 3- Way	640-000-088WT
285	Valve 3- Way Motor	640-000-134
290	3-Way Valve-PHE Pipe	640-000-095
300	N/R Valve Fitting	640-000-030
310	Flow Meter	640-000-084
320	Plate Exchanger PFH30	640-000-089
330	CH Temperature Probe DP	640-000-034
340	CH Temperature Probe US	640-000-035
350	DHW Temperature Probe US	640-000-036
360	Relief Valve 3/4"	640-000-038
370	NPT Adapters	640-000-090
380	Gasket Set	640-000-101
390	Condensate Drain Trap	640-000-073
400	Vent Adapters (2 adapters in kit)	640-000-107
410	Gaskets - Vent Adapter (2 gaskets in kit)	640-000-108
420	Wall Mount Bracket	640-000-044
430	Outdoor Temperature Sensor	640-000-043
440	Heat Exchanger Flow Pipe	640-000-091
450	CH - Return Pipe	640-000-097
460	Bypass Pipe	640-000-093
470	Flow Meter PHE Pipe	640-000-099
480	DHW Outlet Pipe	640-000-096
490	Gas Pipe	640-000-100
500	Heat Exchanger Return pipe	640-000-092
510	CH Flow Pipe	640-000-094
520	Gasket - Heat Exchanger Vent	640-000-136



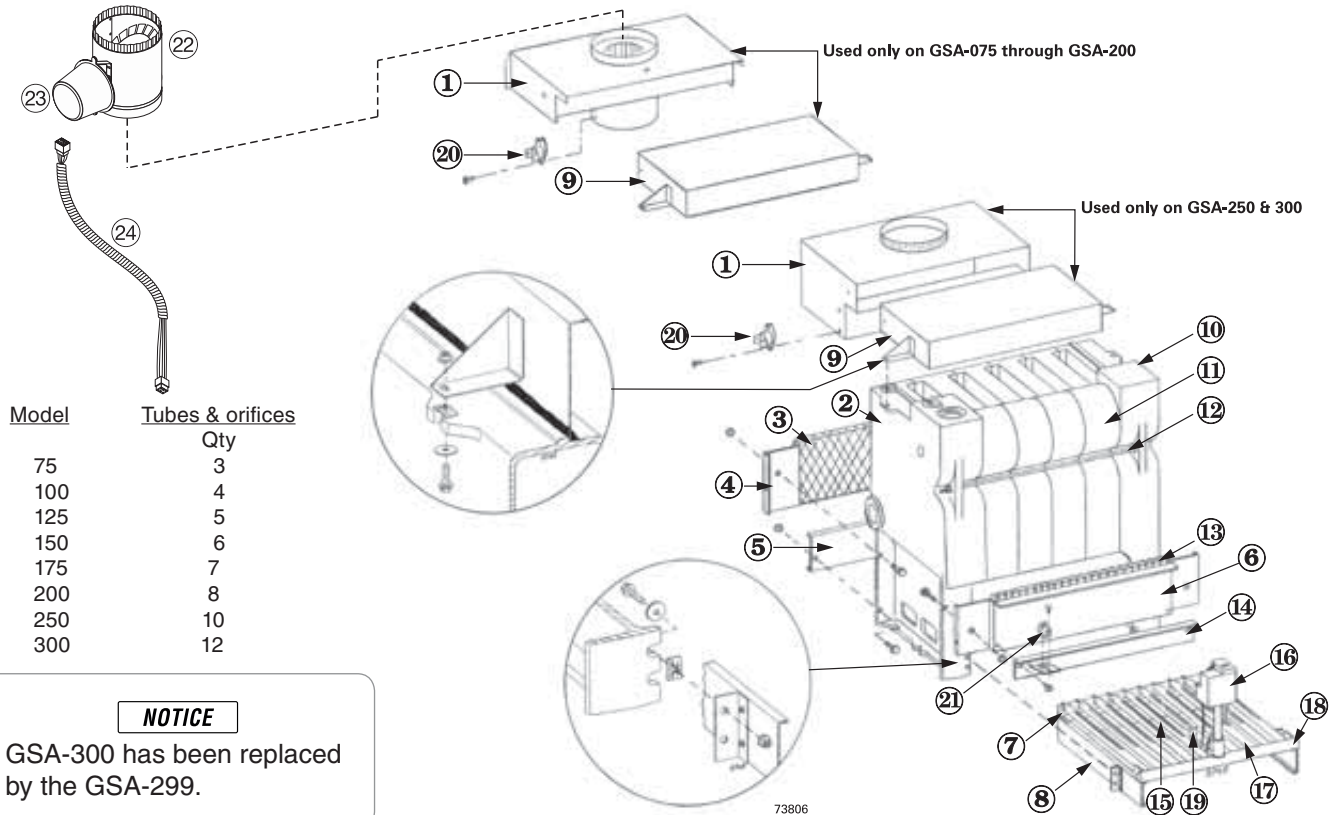
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Item	Name	Part Number
100	Heat Exchanger	640-000-118
110	Flue Sensor Temperature	640-000-011
120	Blower Assembly	640-000-081WT
130	Blower Gasket	640-000-021
140	Ignitor	640-000-109WT
150	Central Heat Exchanger Insulation	640-000-010
160	Burner	640-000-012WT
170	Burner Gasket Set	640-000-013
180	Burner Cover	640-000-016
190	Inspection Glass	640-000-015
200	Kit - Natural Gas Conversion	640-000-082WT
210	Kit - Liquefied Petroleum (Propane) Gas Conversion	640-000-133WT
220	Gas Valve VK8205V	640-000-037WT
230	Water Pressure Switch	640-000-019
240	CH Temperature Probe DP	640-000-034
250	CH Temperature Probe US	640-000-035
260	Relief Valve 3/4"	640-000-038
270	NPT Adapters	640-000-104
280	Gasket Set	640-000-102
290	Condensate Drain Trap	640-000-073
300	Vent Adapters (2 adapters in kit)	640-000-107
310	Gaskets - Vent Adapter (2 gaskets in kit)	640-000-108
320	Wall Mount Bracket	640-000-044
330	Outdoor Temperature Sensor	640-000-043
340	CH - Flow Pipe	640-000-106
350	CH - Return Pipe	640-000-105
360	Gas Pipe	640-000-100
370	Gasket - Heat Exchanger Vent	640-000-136



Section assembly, flue collector, draft hood, vent damper and base assembly

Parts for this model are shown on page 14 through page 17.



Item number	Description	Part number
1	Draft hood	GSA-075 450-021-255WT
		GSA-100 450-021-256WT
		GSA-125 450-021-257WT
		GSA-150 450-021-258WT
		GSA-175 450-021-259WT
		GSA-200 450-021-260WT
		GSA-250 450-021-261WT
		GSA-300 450-021-262WT
	Base insulation kit: Consists of items 3 and 13.	
2	End section, left hand, 1813	510-811-660WT
3	Back base panel insulation (in Base insulation kit)	311-800-007WT
4	Back base panel	GSA-075 & GSA-100 451-800-010WT
		GSA-125 & GSA-150 451-800-011WT
		GSA-175 & GSA-200 451-800-012WT
		GSA-250 & GSA-300 451-800-013WT
5	Back base channel	GSA-075 & GSA-100 451-800-014WT
		GSA-125 & GSA-150 451-800-020WT
		GSA-175 & GSA-200 451-800-021WT
		GSA-250 & GSA-300 451-800-022WT
6	Front base panel	GSA-075 & GSA-100 451-800-023WT
		GSA-125 & GSA-150 451-800-000WT
		GSA-175 & GSA-200 451-800-001WT
		GSA-250 451-800-002WT
7	Back burner support	GSA-300 451-800-003WT
		GSA-075 451-800-004WT
		GSA-100 451-800-085WT
		GSA-125 451-800-086WT
8	Burner pan side rail	GSA-150 451-800-087WT
		GSA-175 451-800-088WT
		GSA-200 451-800-089WT
		GSA-250 451-800-090WT
9	Collector hood	GSA-300 451-800-092WT
		GSA-075 & GSA-100 451-800-095WT
		GSA-125 & GSA-150 450-014-733WT
		GSA-175 & GSA-200 450-014-734WT
	Section Assembly With out Heater Opening	GSA-250 450-014-735WT
		GSA-300 450-014-736WT
		GSA-075 & GSA-100 321-811-095WT
		GSA-125 & GSA-150 321-811-115WT
		GSA-175 & GSA-200 321-811-125WT
		GSA-250 321-811-135WT
		GSA-300 321-811-145WT

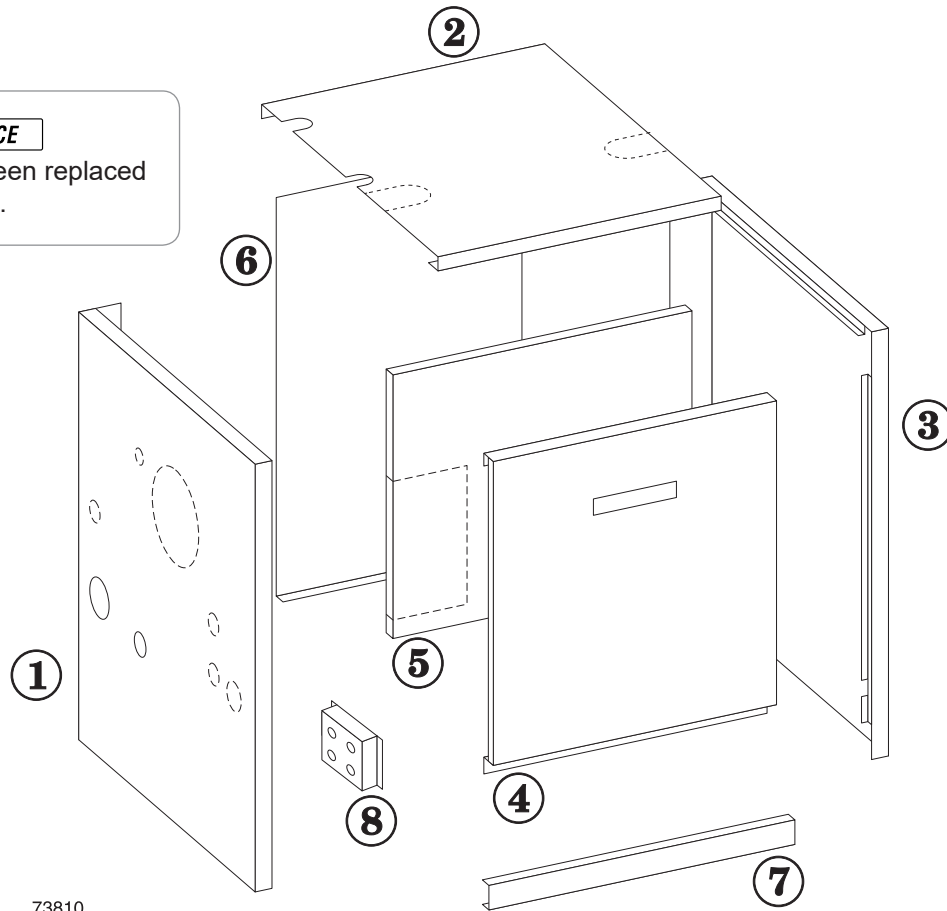
Item number	Description	Part number
	Section replacement kit (Consists of: rope glass and 1 each 3" and 6" square cut seals)	381-800-100WT
10	End section, right hand, 18118	311-800-029WT
11	Intermediate section, 1815	311-800-010WT
12	Tie rod, 1/2"	GSA-075 & GSA-100 560-234-470WT
		GSA-125 & GSA-150 560-234-475WT
		GSA-175 & GSA-200 560-234-480WT
		GSA-250 560-234-485WT
13	Front base panel insulation (in Base insulation kit)	GSA-300 560-234-490WT
		GSA-075 & GSA-100 451-800-040WT
		GSA-125 & GSA-150 451-800-041WT
		GSA-175 451-800-039WT
14	Base access panel	GSA-200 451-800-042WT
		GSA-250 451-800-043WT
		GSA-300 451-800-044WT
15	Burner Regular Burner Assembly with pilot bracket (GSA-075N-I thru GSA-250N-I) Burner Assembly with slot and pilot bracket (GSA-075N-S thru GSA-250N-S)	512-200-000WT
		512-200-001WT
		512-200-002WT
16	Gas valve — see "Gas controls" table on page 9	
17	Main burner orifice — Natural gas	560-528-987WT
	Main burner orifice — Propane gas	560-528-988WT
18	Burner manifold	GSA-075 591-125-533WT
		GSA-100 591-125-538WT
		GSA-125 591-125-534WT
		GSA-150 591-125-539WT
		GSA-175 591-125-535WT
		GSA-200 591-125-540WT
		GSA-250 591-125-541WT
		GSA-300 591-125-542WT
19	Pilot burner assembly — see "Gas controls" table on page 9	
20	Spill switch	510-300-013WT
21	Rollout thermal fuse element	512-050-230WT
22	Vent damper	5" (GSA-075 thru 100) 381-800-475WT
		6" (GSA-125 thru 150) 381-800-476WT
		7" (GSA-175 thru 200) 381-800-477WT
		8" (GSA-250 & 300) 381-800-478WT
23	Vent damper actuator	only with vent damper above
24	Vent damper harness	591-391-795WT



WARNING The boiler contains ceramic fiber and fiberglass materials. Use care when handling these materials per instructions on page 103 of this manual. Failure to comply could result in severe personal injury.

NOTICE

GSA-300 has been replaced by the GSA-299.



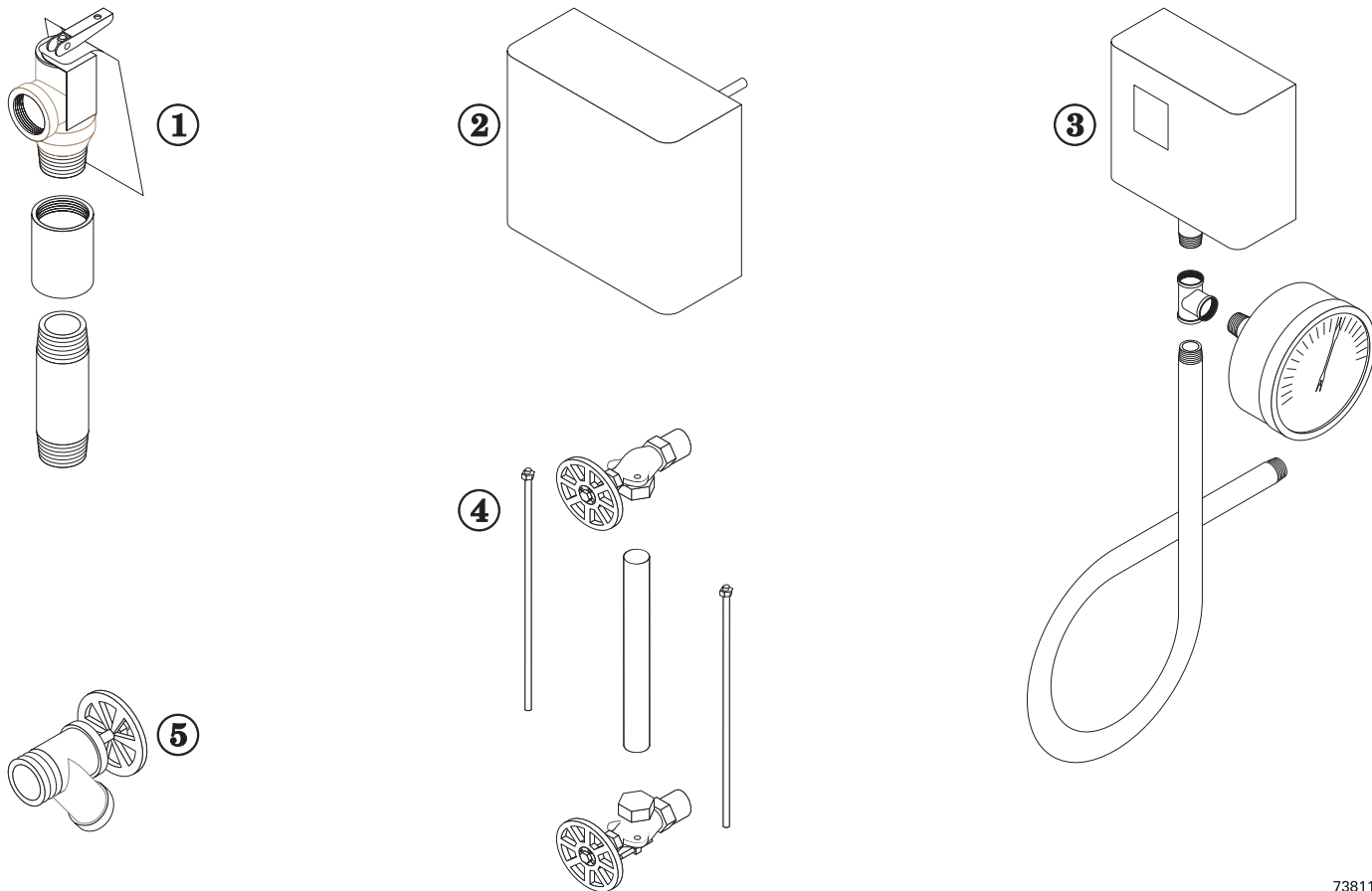
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WARNING Use the selection marked "Spk" for spark-ignited pilot boilers. Use the selection marked "Std" for boilers with standing pilots. For boilers that have been field converted for PROPANE, make sure to fill out and attach the PROPANE CONVERSION LABEL supplied with the JACKET LEFT SIDE PANEL when replaced.

Item no.	Description	Pilot	GSA-075	GSA-100	GSA-125	GSA-150	GSA-175	GSA-200	GSA-250
1	Jacket panel, left side w/ insulation	All	421-800-150WT	421-800-150WT	421-800-150WT	421-800-150WT	421-800-150WT	421-800-150WT	421-800-150WT
2	Jacket top panel	All	421-800-152WT	421-800-152WT	421-800-153WT	421-800-153WT	421-800-154WT	421-800-154WT	421-800-155WT
3	Jacket panel, right side w/ insulation	All	421-800-151WT	421-800-151WT	421-800-151WT	421-800-151WT	421-800-151WT	421-800-151WT	421-800-151WT
4	Jacket door panel	Spk	421-800-167WT	421-800-554WT	421-800-168WT	421-800-555WT	421-800-169WT	421-800-556WT	421-800-170WT
		Std	421-800-177WT	421-800-179WT	421-800-181WT	421-800-183WT	421-800-185WT	421-800-187WT	421-800-189WT
5	Jacket interior panel, with insulation	Spk	421-800-162WT	421-800-551WT	421-800-163WT	421-800-552WT	421-800-164WT	421-800-553WT	421-800-165WT
		Std	421-800-176WT	421-800-178WT	421-800-180WT	421-800-182WT	421-800-184WT	421-800-186WT	421-800-188WT
6	Jacket rear panel, with insulation	All	421-800-157WT	421-800-157WT	421-800-158WT	421-800-158WT	421-800-159WT	421-800-159WT	421-800-160WT
7	Bottom cross tie	All	421-800-172WT	421-800-172WT	421-800-173WT	421-800-173WT	421-800-174WT	421-800-174WT	421-800-175WT
8	Junction box, 4 x 4	All	Available at local supply house						

GSA-300 — Jacket for GSA-300 is available ONLY as a complete jacket, not as individual parts. Order p/n 411-800-181WT



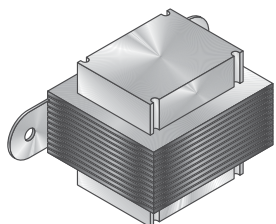
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Item number	Description	Manufacturer	Manufacturer's part number	Part number
1	Pressure relief valve, ASME, 15 PSIG, 3/4" npt (Fittings shown are factory-installed on boiler. Coupling 3/4" npt, Nipple 3/4" npt)	Conbraco Watts	13-501-08 315	511-548-023WT
2	Low water cutoff, probe-type	Hydrolevel	400	511-114-515WT
3	Limit control/gauge assembly, includes: Pressure control Gauge, steam Siphon, 1/4" npt, 90° brass Nipple, close 1/4" npt Tee, 1/4" npt	Honeywell Winter's	PA-404-A E1437	510-312-135WT 510-218-045WT obtain locally obtain locally obtain locally
4	Gauge glass assembly, includes: Gauge glass Gauge glass guard, 9 3/8" Gauge cock set, brass	Conbraco United Brass Wks	21-205-03-W 905 and 946	591-419-185WT 563-334-580WT 510-218-145WT
5	Drain valve, 3/4"			511-210-423WT

NOTICE

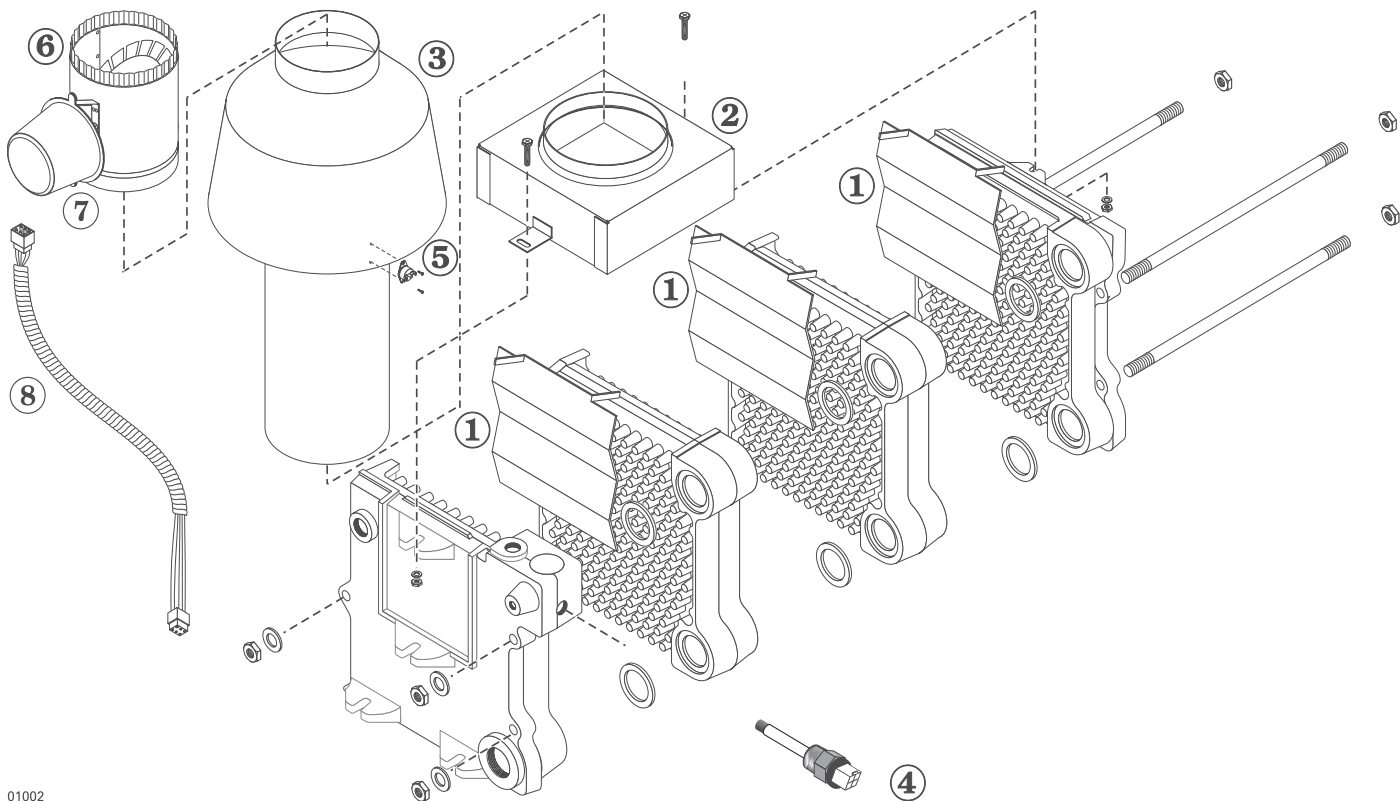
GSA-300 has been replaced
by the GSA-299.

Description	Supplier part number	Part number
Damper Assembly 5.00" (GSA 075-100)	Effikal RVGP-KS-5BKF Field Controls GVD-5	381-800-475WT
6.00" (GSA 125-150)	Effikal RVGP-KS-6BKF Field Controls GVD-6	381-800-476WT
7.00" (GSA 175-200)	Effikal RVGP-KS-7BKF Field Controls GVD-7	381-800-477WT
8.00" (GSA 250 & 300)	Effikal RVGP-KS-8BKF Field Controls GVD-8	381-800-478WT
Damper Actuator	Effikal RVGP	510-512-337WT
Damper Harness	Weil-McLain	591-391-795WT
UCS Ignition Control	Honeywell S8620C1003 United Technologies 1003-611A	511-330-097WT
Wiring Harness (in Envelope Assy), GSA 075-250, Steam w/Probe LWCO		540-130-990WT
Pilot Burner Assembly	Precision Speed Equipment PSE-NA16	511-330-218WT
Gas Valve, ½" x ½", Sizes GSA 075-175 Natural Gas	Honeywell VR8204A2001 White-Rodgers 36E36-266 Robertshaw 7200IPER	511-044-381WT
Gas Valve, ¾" x ¾", Sizes GSA 200-300 Natural Gas 1.2 Step	Honeywell VR8304P4348 White-Rodgers 36C74-474	511-044-382WT
Transformer 24-Volt/PI with Bale Wire		510-312-166WT



NOTICE

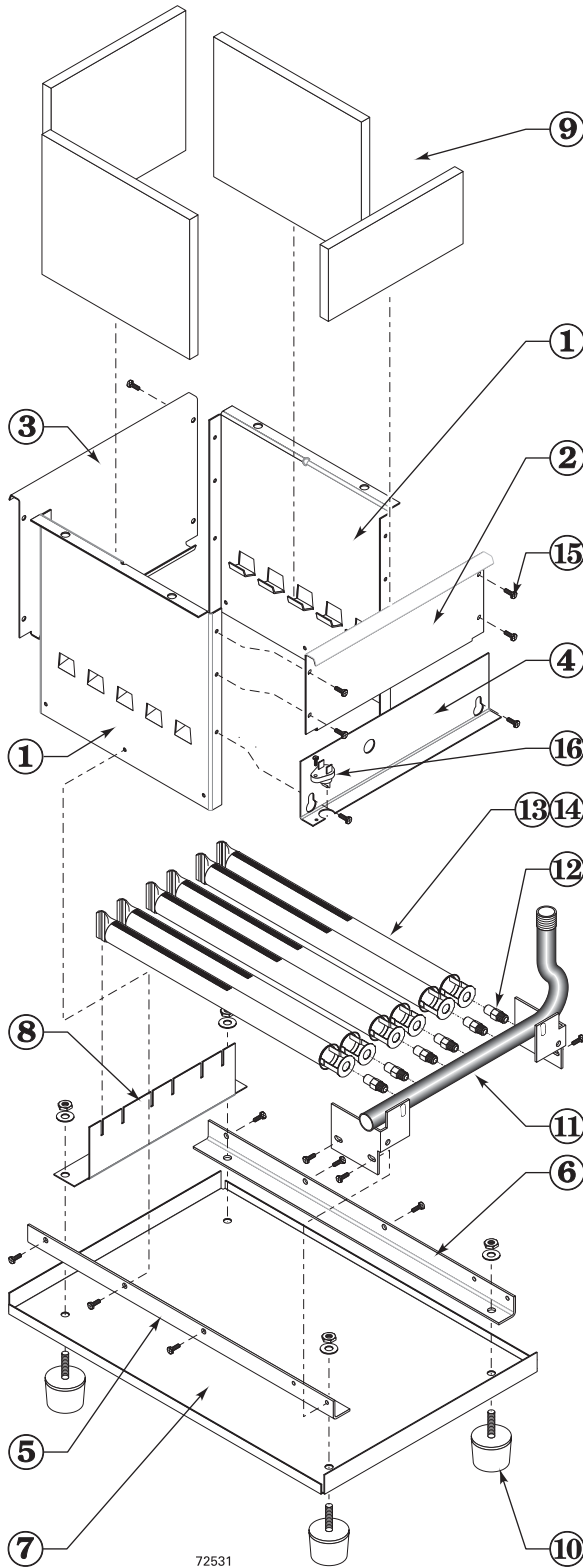
GSA-300 has been replaced
by the GSA-299.



01002

Item number	Description		Part number
not shown	Replacement section assembly	GWA-052	321-114-345WT
		GWA-070	321-114-345WT
		GWA-105	321-114-346WT
		GWA-140	321-114-347WT
		GWA-175	321-114-348WT
		GWA-210	321-114-349WT
		GWA-245	321-114-350WT
1	Radiation plate (1 per joint)		460-003-700WT
2	Collector hood	GWA-052	381-354-625WT
		GWA-070	381-354-626WT
		GWA-105	381-354-627WT
		GWA-140	381-354-628WT
		GWA-175	381-354-629WT
		GWA-210	381-354-630WT
		GWA-245	381-354-631WT
3	Drafthood	GWA-052	450-021-240WT
		GWA-070	450-021-241WT
		GWA-105	450-021-242WT
		GWA-140	450-021-243WT
		GWA-175	450-021-244WT
		GWA-210	450-021-245WT
		GWA-245	450-021-246WT

Item number	Description				Part number
4	Temperature sensor		Tasseron TSL055D		381-356-577WT
5	Spill switch				510-300-014WT
6	Vent damper	4"	GWA-052 GWA-070	Effikal RVGP-KS-4BKF * Johnson Controls Q35GB-2 Field Controls GVD-4	381-800-474WT
		5"	GWA-105	Effikal RVGP-KS-5BKF * Johnson Controls Q35GD-2 Field Controls GVD-5	381-800-475WT
		6"	GWA-140 GWA-175	Effikal RVGP-KS-6BKF * Johnson Controls Q35GF-2 Field Controls GVD-6	381-800-476WT
		7"	GWA-210 GWA-245	Effikal RVGP-KS-7BKF * Johnson Controls Q35GH-2 Field Controls GVD-7	381-800-477WT
		*	Johnson Controls damper assemblies consists of M35BC actuator and Y15 vent pipe		
7	Vent damper actuator		Effikal RVGP		510-512-337WT
8	Vent damper harness				591-391-795WT

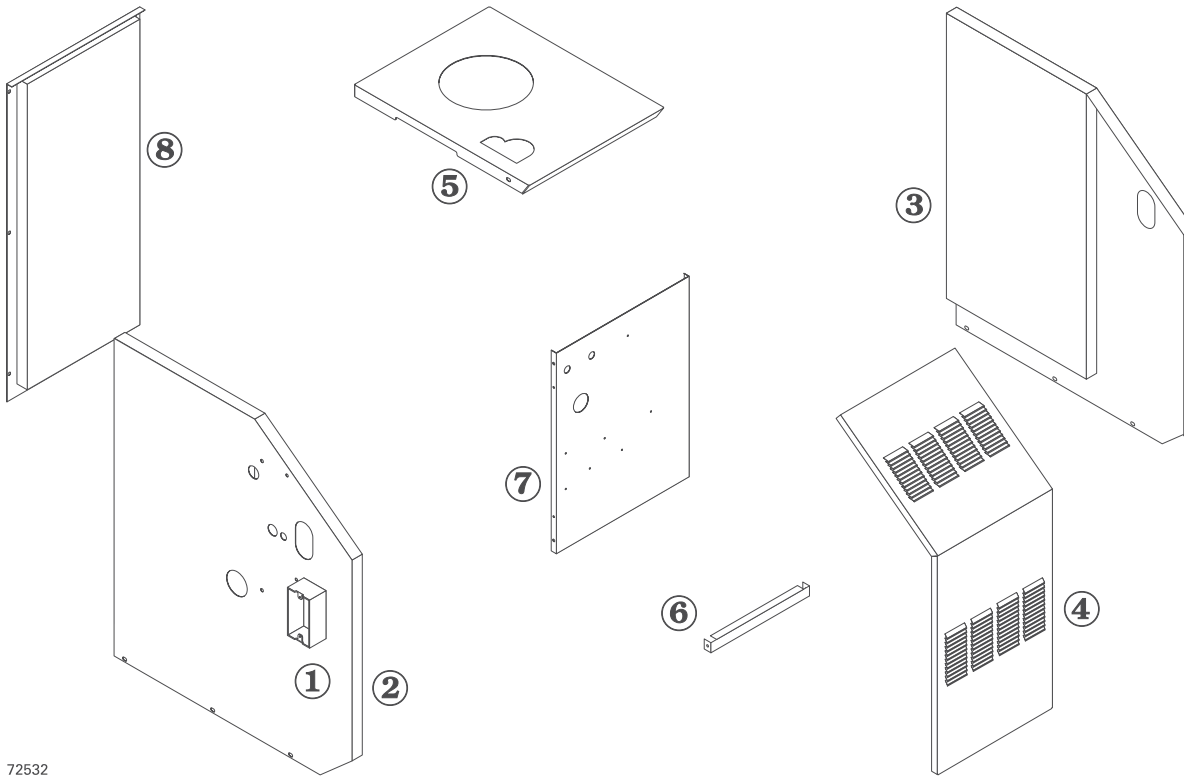


Item number	Description		Part number
	Base assembly kit	GWA-052 GWA-070 GWA-105 GWA-140 GWA-175 GWA-210 GWA-245	381-354-355WT 381-354-356WT 381-354-357WT 381-354-358WT 381-354-359WT 381-354-360WT 381-354-361WT
1	Base side panel (in Base assembly)		
2	Base front cross-tie assembly (in Base assembly)		
3	Base back cross-tie assembly (in Base assembly)		
4	Base access panel (in Base assembly)		
5	Base pan angle, left side (in Base assembly)		
6	Base pan angle, right side (in Base assembly)		
7	Base pan (in Base assembly)		
8	Burner rest		
9	Base insulation kit (included insulation for all base parts above plus gasket material needed between block assembly and base)	GWA-052 to GWA-140 GWA-175 to GWA-245	381-354-518WT 381-354-519WT
10	Boiler leg kit		590-424-252WT
11	Manifold	GWA-052 GWA-070 GWA-105 GWA-140 GWA-175 GWA-210 GWA-245	591-126-615WT 591-126-616WT 591-126-617WT 591-126-618WT 591-126-619WT 591-126-556WT 591-126-557WT
12	Main burner orifice, sea level – Natural gas Main burner orifice, sea level – Propane gas		560-528-997WT 560-528-998WT
13	Burner, stainless steel		512-200-077WT
14	Burner with pilot bracket (not shown)		512-200-078WT
15	Screw, 10-32 x 3/8 STP Type D Hex, washer head slot ZP		available at local supply house
16	Rollout thermal fuse element		512-050-230WT

Model	Qty
52	3
70	4
105	6
140	8
175	10
210	12
245	14

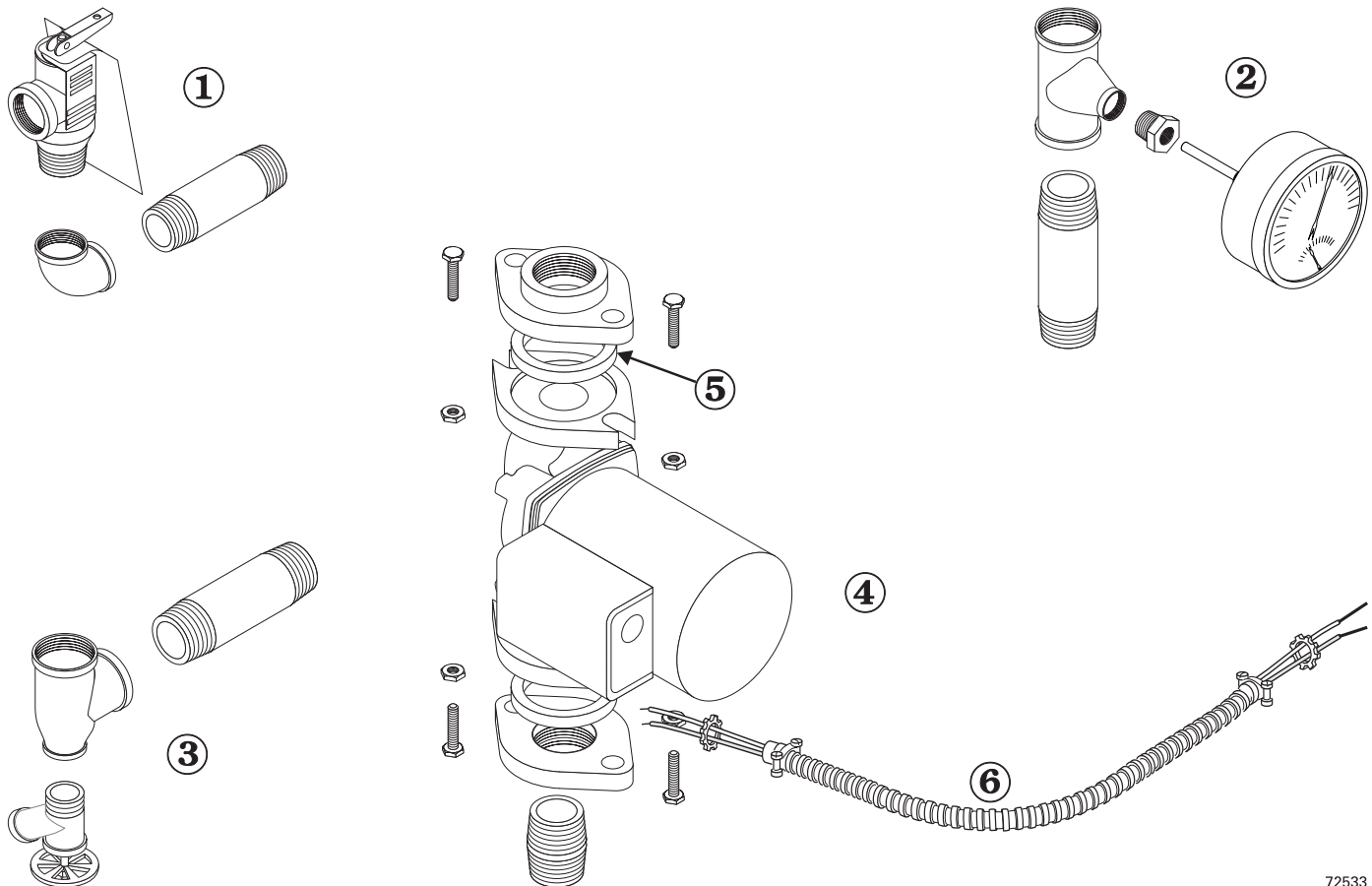


The boiler contains ceramic fiber and fiberglass materials. Use care when handling these materials per instructions on page 103 of this manual. Failure to comply could result in severe personal injury.



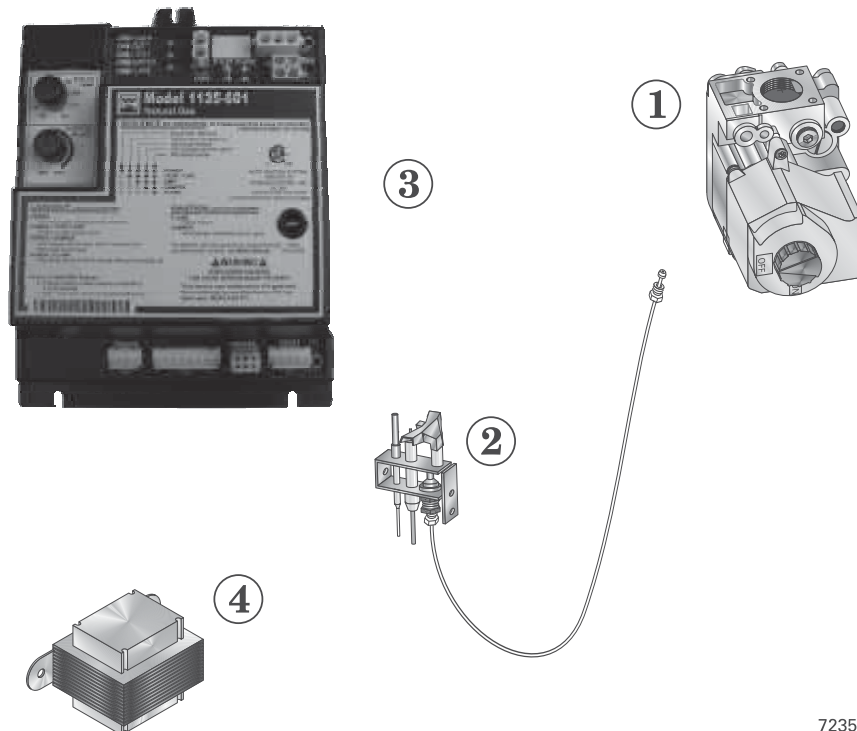
72532

Item number	Description		Part number	Part number	Item number	Description		Part number
1	Junction box, 2 x 4 (Available at local supply house)				5	Jacket panel, top	GWA-052 & GWA-070 GWA-105 GWA-140 GWA-175 GWA-210 GWA-245	421-300-025WT 421-300-026WT 421-300-027WT 421-300-028WT 421-300-029WT 421-300-030WT
2	Jacket panel, left side with insulation	GWA-052 GWA-070 GWA-105 GWA-140 GWA-175 GWA-210 GWA-245	<u>Natural Gas</u> 431-223-571WT 431-223-573WT 431-223-575WT 431-223-577WT 431-223-579WT 431-223-581WT 431-223-583WT	<u>Propane Gas</u> 431-223-585WT 431-223-586WT 431-223-587WT 431-223-588WT 431-223-589WT 431-223-590WT 431-223-591WT	6	Jacket cross-tie	GWA-052 & GWA-070 GWA-105 GWA-140 GWA-175 GWA-210 GWA-245	431-223-507WT 431-223-508WT 431-223-509WT 431-223-510WT 431-223-511WT 431-223-512WT
3	Jacket panel, right side with insulation	GWA-052 GWA-070 GWA-105 GWA-140 GWA-175 GWA-210 GWA-245		431-223-572WT 431-223-574WT 431-223-576WT 431-223-578WT 431-223-580WT 431-223-582WT 431-223-584WT	7	Jacket panel, interior, with insulation	GWA-052 & GWA-070 GWA-105 GWA-140 GWA-175 GWA-210 GWA-245	431-223-427WT 431-223-428WT 431-223-429WT 431-223-430WT 431-223-431WT 431-223-432WT
4	Jacket panel, door	GWA-052 & 070 GWA-105 GWA-140 GWA-175 GWA-210 GWA-245		431-223-592WT 431-223-593WT 431-223-594WT 431-223-595WT 431-223-596WT 431-223-597WT	8	Jacket panel, rear, with insulation	GWA-052 & GWA-070 GWA-105 GWA-140 GWA-175 GWA-210 GWA-245	431-223-444WT 431-223-445WT 431-223-446WT 431-223-447WT 431-223-448WT 431-223-449WT



72533

Item number	Description	Manufacturer	Manufacturer's Part number	Part number
1	Pressure relief valve, ASME, 30 PSIG, 3/4" male inlet	Watts	M330	511-546-920WT
	Pressure relief valve, ASME, 30 PSIG, 3/4" female inlet (Fittings shown are factory-installed on boiler.)	Watts	335	511-546-924WT
2	Combination pressure-temperature gauge, with 2 1/2" short shank	Amekai	OS234JDTW003	510-218-099WT
3	Drain valve, 3/4" NPT, 1-1/2" Shank (Fittings shown are included with boiler.)			511-210-423WT
4	Circulator (Fittings shown are shipped loose with boiler.)	Taco	007	511-405-113WT
5	Circulator gasket, universal (2 per boiler)			590-317-535WT
not shown	Circulator hardware kit, includes: 2 flanges, 4 nuts, 4 bolts, 2 pipe nipples — 1" NPT — GWA-052 through GWA-140 1 1/4" NPT — GWA-175 through GWA-245			381-354-525WT 381-354-526WT
6	Circulator wiring harness kit, spark-ignition with molex (loose)			381-356-528WT

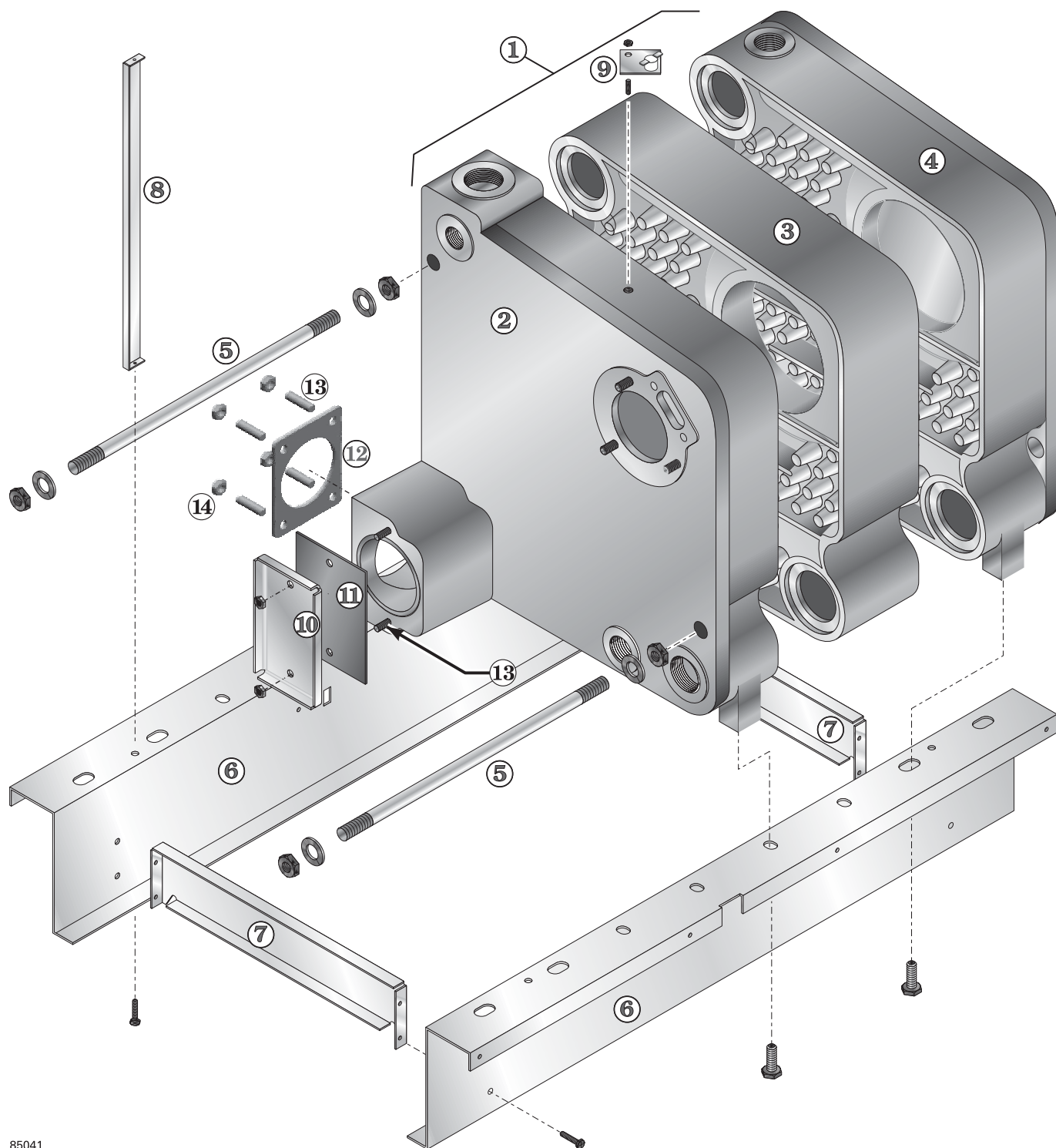


72354

Item number	Description	Boiler model	Manufacturer	Manufacturer's part number	Part number
Natural gas components					
1	Gas valve, ½" x ½"	GWA-052 through GWA-175	Honeywell	VR8204A2001	511-044-381WT
	Gas valve, ¾" x ¾"	GWA-210 through GWA-245	White-Rodgers Robertshaw Honeywell White-Rodgers	36E-266 7200IPER VR8304M4348 36C74-474	511-044-382WT
2	Pilot kit w/orifice & aluminum pilot gas tubing		Williamson-Thermoflo		511-330-218WT
—	Kit-Conversion Liquefied Petroleum (Propane) to Natural Gas			GWA-052 - 175	510-811-944WT
—	Kit-Conversion Liquefied Petroleum (Propane) to Natural Gas			GWA-210 - 245	510-811-945WT
Liquefied Petroleum (Propane) gas components					
1	Gas valve, ¾" x ¾"	GWA-052 through GWA-245	Honeywell	VR8304P4330	511-044-356WT
2	Pilot kit w/orifice & aluminum pilot gas tubing		Williamson-Thermoflo		511-330-273WT
—	Kit-Conversion Natural to Liquefied Petroleum (Propane) Gas			GWA-052 - 210	510-811-940WT
—	Kit-Conversion Natural to Liquefied Petroleum (Propane) Gas			GWA-245	510-811-941WT
Natural gas and Liquefied Petroleum (Propane) gas components					
3	Control module - Natural gas		United Technologies	1135-601	381-330-014WT
	- Liquefied Petroleum (Propane) gas			1135-602	381-330-015WT
not shown	Wiring harness, junction box (120VAC) to control module		Williamson-Thermoflo		591-391-975WT
not shown	Wiring harness, controls to control module (GV/All limits)		Williamson-Thermoflo		591-391-977WT
not shown	Wiring harness, thermostat		Williamson-Thermoflo		591-391-994WT
not shown	Wiring harness, sensor (Natural gas)		Williamson-Thermoflo		591-391-995WT
not shown	Wiring harness, sensor (Propane gas)		Williamson-Thermoflo		591-391-000WT
4	Control transformer		Honeywell		381-356-578WT

Description	Model	Williamson-Thermoflo part number
Vent termination plate for 3" AL29-4C or 3" PVC pipes (plate includes knockouts to provide larger holes needed for PVC)	All	452-100-163WT
Vent Termination Bird Screen 3" PVC (1 pc)	All	383-500-105WT
Termination bag assembly (includes two 2-hole sidewall termination plates and two bird screens, mounting screws and plastic anchors)	All	542-200-314WT
3" PVC Concentric Vent Kit	All	383-500-350WT
Adapter 3-inch AL29-4C Vent Starter, FasNSeal	All	560-907-717WT
Adapter 3-inch AL29-4C Vent Starter, Z-Vent	All	560-907-723WT
Adapter 3-inch AL29-4C Vent Starter, Saf-T-Vent	All	560-907-724WT
Adapter 3-inch AL29-4C Vent Starter, CORR/GUARD	All	Contact Williamson-Thermoflo
Chemicals: Antifreeze, aluminum-safe, Sentinel X500 Corrosion inhibitor, Sentinel X100 (one tube is shipped with boiler) Sentinel X100 Inhibitor Test Kit. (one kit is shipped with boiler) Cleaner, Sentinel X400.	All	592-900-004WT 592-900-002WT 592-900-005WT 592-900-003WT
Condensate neutralizer kit	All	383-500-631WT
Oil Lubricant 3 Oz Andersol 465	All	592-900-015WT

Item number	Description	Model	Williamson-Thermoflo part number
1	Block assembly, includes: Front section, intermediate section, back section, square cut seals — 2", silicone sealant, tie rods, tie rod nuts, tie rod washers, blower flange gasket, igniter, igniter gasket, screws, lock washers, studs, nuts	070 105 140 175	322-200-304WT 322-200-305WT 322-200-306WT 322-200-307WT
2	Front section replacement kit, includes front section, square cut seals (4), silicone sealant, blower flange gasket, igniter gasket, studs (13), nuts (13)	All	382-200-713WT
3	Intermediate section (also required Section replacement kit)	All	312-200-110WT
4	Back section (also required Section replacement kit)	All	312-200-130WT
Not shown	Section replacement kit	All	382-200-305WT
5	Tie rods	070 105 140 175	560-234-499WT 560-234-525WT 560-234-503WT 560-234-504WT
6	Base rail legs — (2) per boiler	070 and 105 140 and 175	452-100-173WT 452-100-174WT
7	Base rail brace — (2) per boiler	All	452-100-080WT
8	Blower housing support	All	452-100-111WT
9	Block temperature limit switch	All	382-200-375WT
10	Inspection port cover	All	In Insp. port kit
11	Inspection port gasket	All	590-317-628WT
—	Inspection port kit (includes cover and gasket)	All	542-200-181WT
12	Recuperator connection gasket	All	590-317-653WT
13	Stud, 5/16" — 18 x 1 1/4"	All	560-340-581WT
14	Hex nuts (4 each), 5/16" / lock washers (4 each), 5/16"	All	Obtain locally



85041

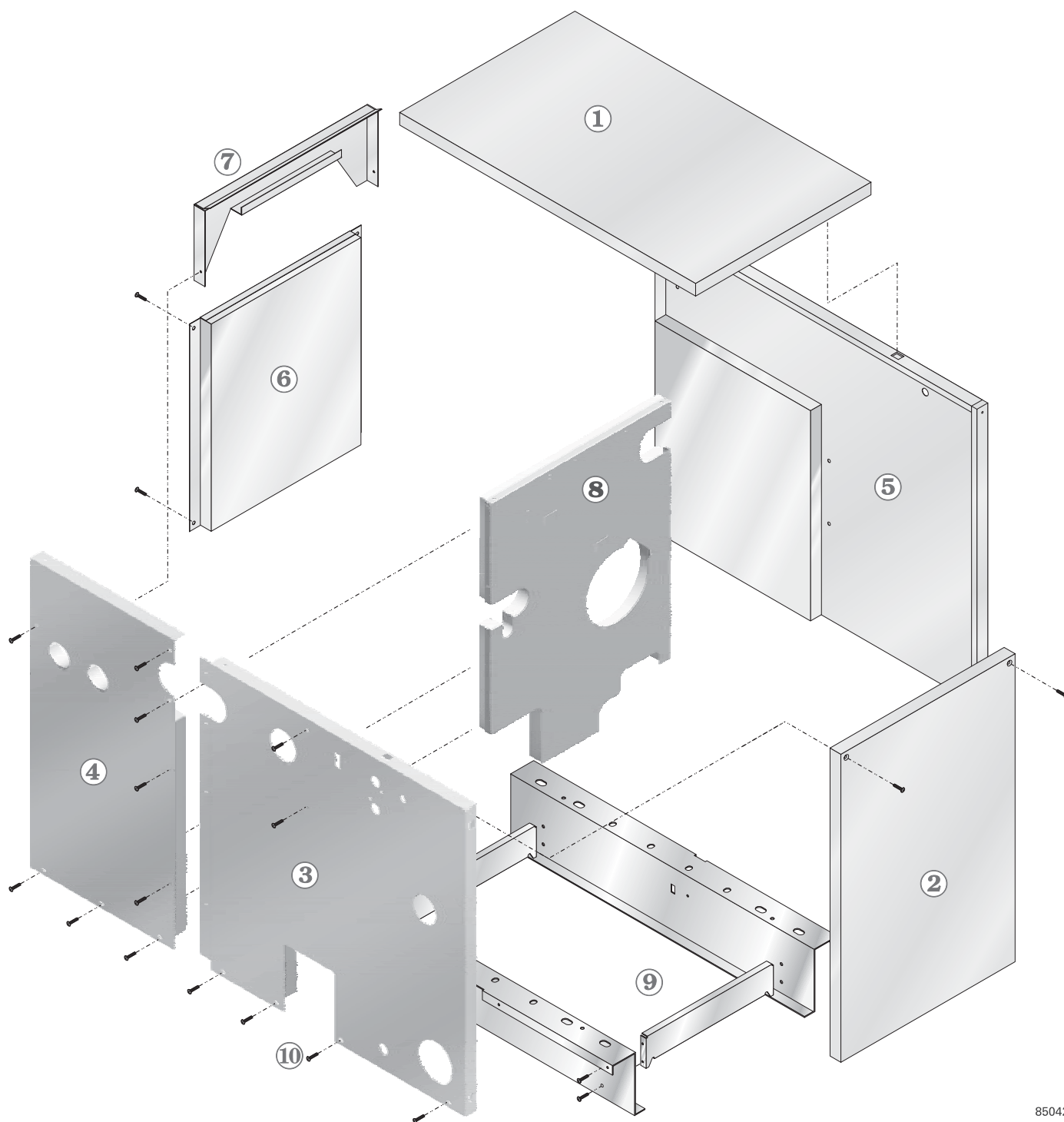
Jacket assembly

Parts for this model are shown on page 23 through page 33.

Item number	Description	Model	Williamson-Thermoflo part number
1	Jacket panel, top	070 and 105 140 and 175	382-200-735WT 382-200-736WT
2	Jacket panel, front	All	382-200-702WT
3	Jacket panel, left side, front	070 105 140 175	382-200-730WT 382-200-731WT 382-200-732WT 382-200-733WT
4	Jacket panel, left side, rear	070 and 105 140 and 175	382-200-705WT 382-200-706WT
5	Jacket panel, right side	070 and 105 140 and 175	382-200-724WT 382-200-725WT
6	Jacket panel, rear	All	382-200-726WT
7	Jacket brace	All	422-200-193WT
8	Jacket panel, interior	All	382-200-727WT
9	Base rail assembly	All	see items 6 and 7 on page 15
10	Screw, sheet metal type AB, serrated hex washer head Phillips #10 x 3/8" steel black phosphate	All	—

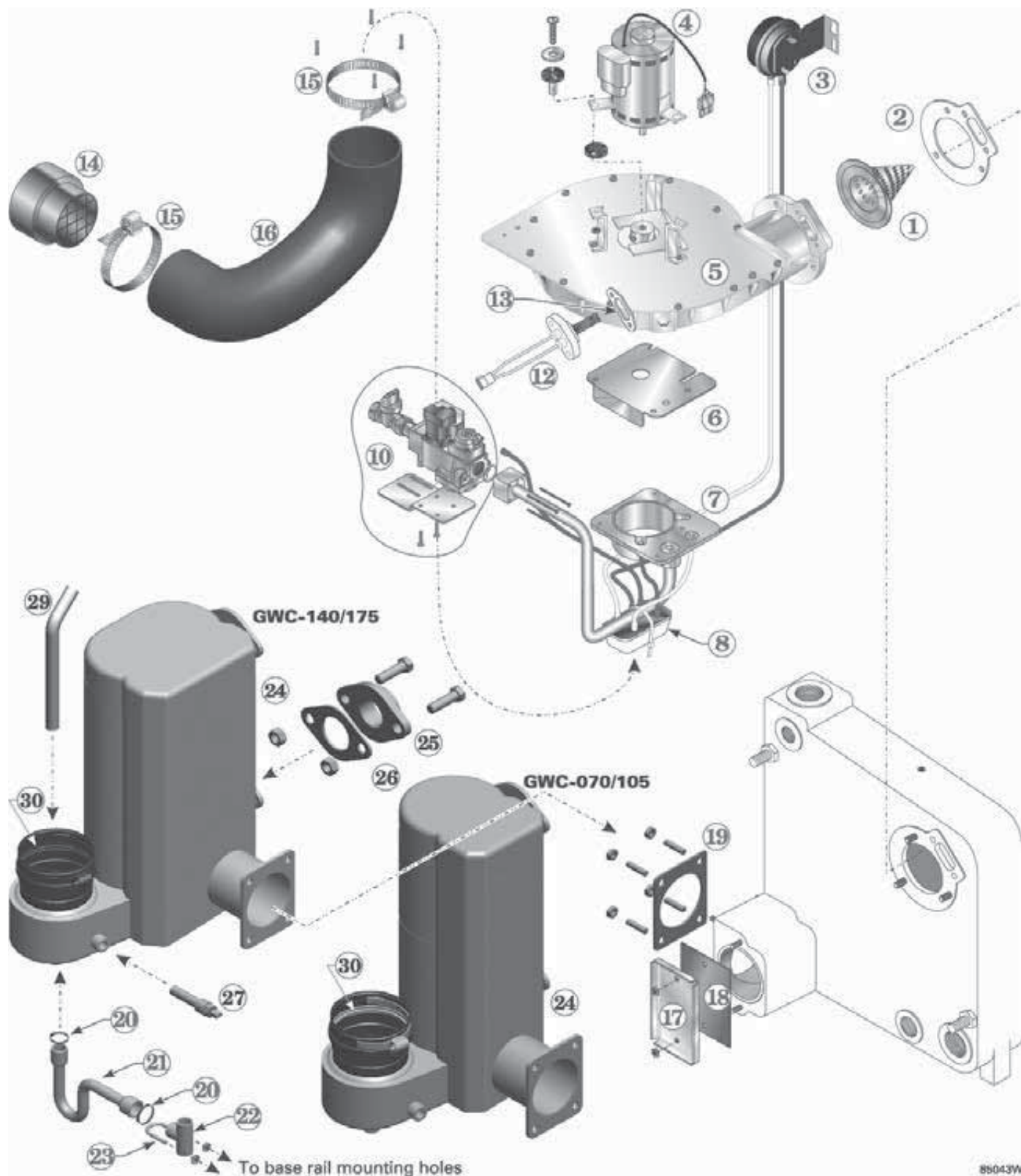


The boiler contains ceramic fiber and fiberglass materials. Use care when handling these materials per instructions on page 103 of this manual. Failure to comply could result in severe personal injury.



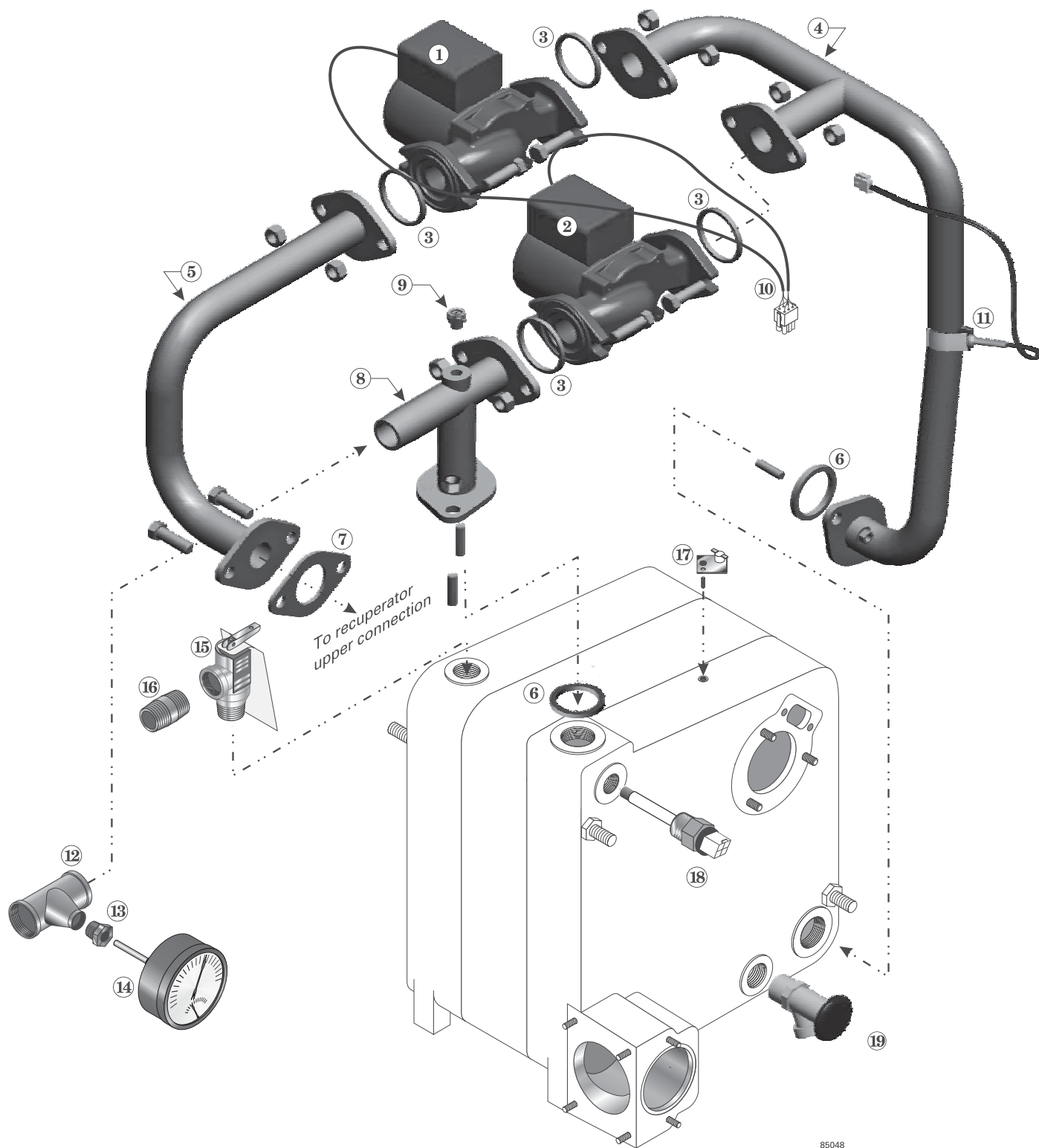
85042

Item number	Description	Model	Williamson-Thermoflo part number
1	Burner replacement kit, includes burner, blower flange gasket, igniter, igniter screws, igniter washers, igniter gasket	070 105 140 175	382-200-320WT 382-200-325WT 382-200-330WT 382-200-335WT
2	Blower flange gasket	All	590-317-610WT
3	Air pressure switch (0 to 5,500 feet elevation)	All	382-200-723WT
—	Air pressure switch (5,500 to 10,000 feet elevation)	All	382-200-728WT
4	Blower motor replacement kit, includes blower motor, motor mounting grommets, screws, lock nuts and 9" Allen wrench	All	381-356-584WT
5	Blower housing assembly replacement kit, includes: blower housing, obsv. port, blower housing cover plate, blower motor mounting brackets, washer hold down bracket, lock nuts, motor mount grommets, blower motor, blower wheel, magnetic washer, silicone sealant, screws, blower flange gasket, igniter, igniter washers, igniter screws, igniter gasket	All	381-356-587WT
6	Conversion kit, natural to propane , includes Propane orifice plate, label	070 105 140 175	510-811-926WT 510-811-927WT 510-811-928WT 510-811-929WT
	Orifice plate, natural gas	070 105 140 175	510-811-934WT 510-811-935WT 510-811-936WT 510-811-937WT
7	Gas/air manifold assembly, includes gas/air manifold, gas tubing, washers, screws, gas valve o-ring	All	382-200-362WT
8	Sense line condensate trap, includes sense line condensate trap and hoses	All	382-200-409WT
10	Gas valve kit, complete, includes gas valve, gas cock, 1/2" nipple, bracket, o-ring, screws	All	382-200-411WT
12	Igniter replacement kit, includes igniter and gasket	All	511-330-148WT
13	Igniter gasket	All	590-317-599WT
14	Inlet air tube w/grill	All	382-200-310WT
15	Hose clamp, 3"	All	591-850-068WT
16	Inlet air hose, 3" by 19" long	All	562-302-573WT
17 & 18	Inspection port cover and Inspection port gasket	All	see items 10 and 11 on page 15
19	Recuperator connection gasket	All	590-317-653WT
20	Condensate drain hose clamp	All	—
21	Condensate trap	All	560-907-716WT
22	½" PVC condensate tee	All	—
23	Condensate tee U-clamp	All	—
24	Recuperator kit, includes recuperator, recuperator connection gasket, diamond flange gasket (2), connection hardware (4-nuts), flue gas thermal fuse	070 and 105 140 and 175	382-200-714WT 382-200-715WT
25	Diamond flange, 1" npt	All	see item 24
26	Diamond flange gasket	All	590-317-535WT
27	Switch Thermal TSP 80 Degrees Celcius Normally Closed 1/4 NPT	All	511-624-664WT
28		—	—
29	Flue drain hose kit, 6 inches	All	382-200-717WT
30	Recuperator vent pipe seal	All	593-000-006WT



85043Ym

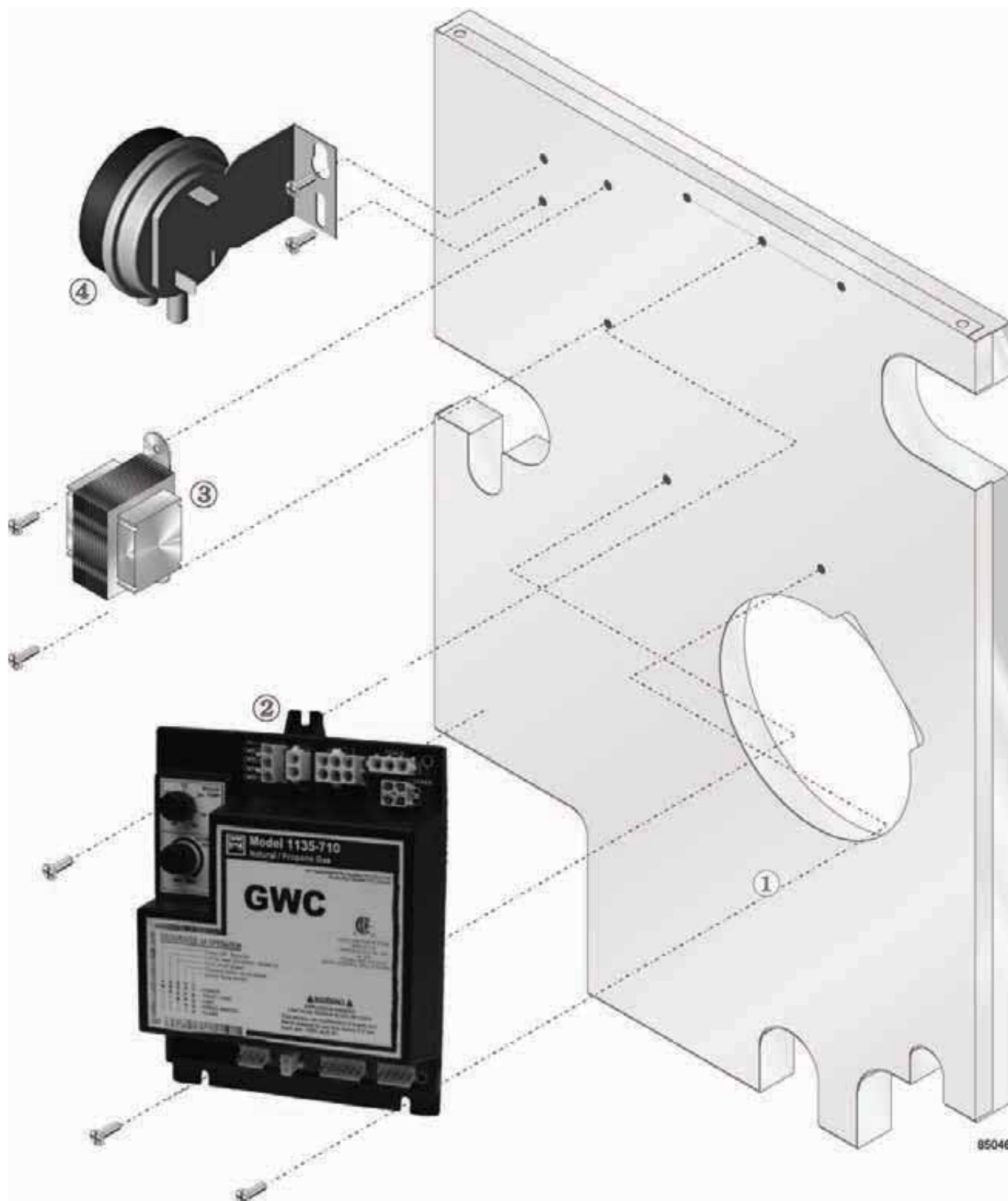
Item number	Description	Williamson-Thermoflo part number
1	System circulator, Taco 007	511-405-113WT
2	Bypass circulator, Taco 007	511-405-113WT
3	Circulator gasket, Taco 110-339	590-317-543WT
4	Manifold, casting/circulator kit, includes water manifold, circulator gasket (Taco 110-339) (2), square cut seal (manifold to casting)	382-200-720WT
5	Return manifold, recuperator/circulator kit, includes water manifold, circulator gasket (Taco 110-339) (1), diamond gasket	382-200-721WT
6	Square cut seal gaskets, casting, 2.31"	572-800-011WT
7	Diamond flange gasket	590-317-535WT
8	Supply manifold kit, includes water manifold, circulator gasket (Taco 110-339) (1), square cut seal (manifold to casting)	382-200-722WT
9	Coin-operated air vent, 1/8" NPT	570-148-565WT
10	Wiring harness, circulators to IBC	591-391-824WT
11	Return water temperature sensor and clip	511-330-089WT
12	Tee, 1" x 1" x 3/4"	Obtain locally
13	Bushing 3/4" x 1/4"	Obtain locally
14	Temperature and Pressure Gauge, 1/4" NPT	510-218-099WT
15	30 PSIG Relief Valve	511-546-920WT
16	Nipple, NPT — 3/4" x 3"	Obtain locally
17	Block temperature limit switch	382-200-375WT
18	Boiler temperature sensor	381-356-577WT
19	Drain valve, 3/4" NPT	511-546-392WT

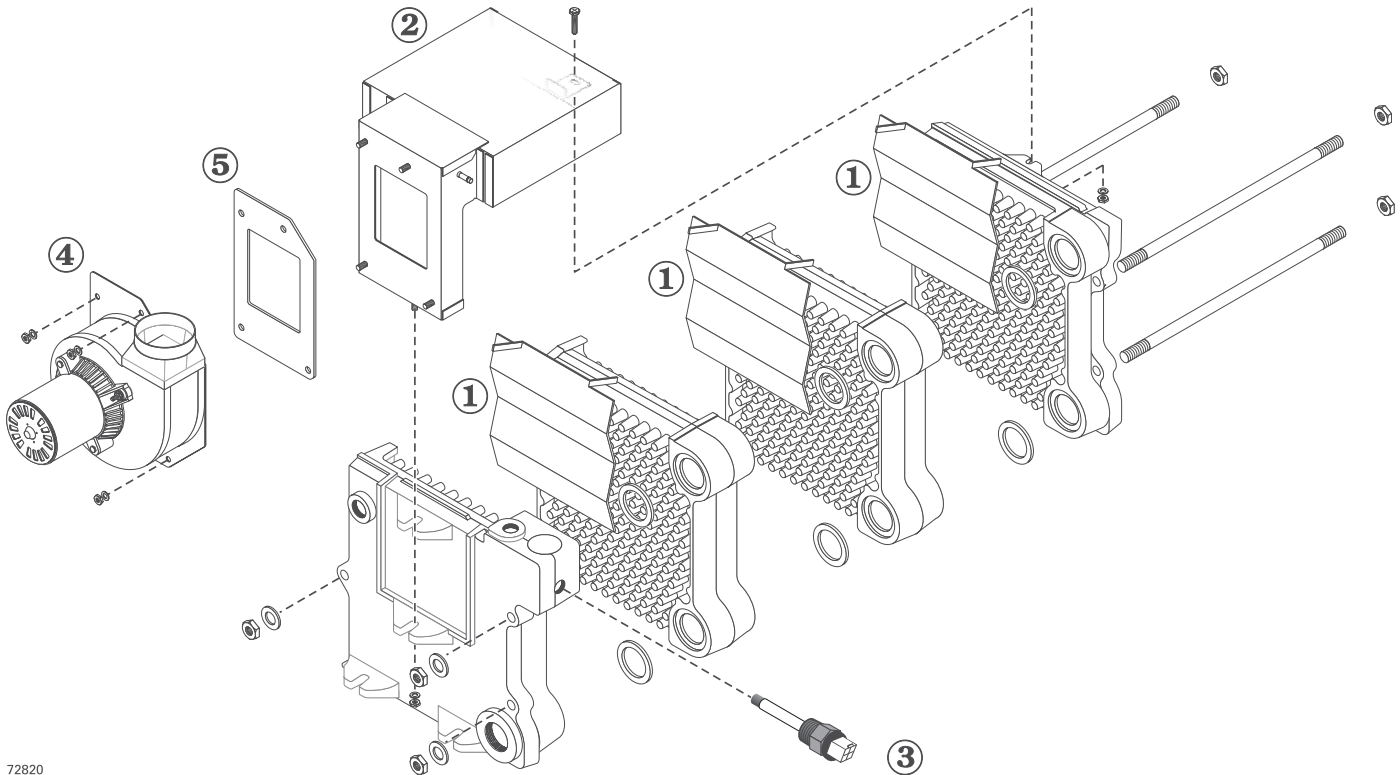


Item number	Description	Williamson-Thermoflo part number
1	Interior panel	see item 8 on page 17
2	Integrated boiler control assembly, includes IBC and screws	381-330-017WT
3	Transformer	381-356-578WT
4	Air pressure switch	see item 3 on page 19
not shown	Wiring harness, IBC to hot surface ignitor	591-391-819WT
not shown	Wiring harness, IBC to system and bypass circulators	591-391-824WT
not shown	Wiring harness, IBC to junction box (120VAC)	591-391-984WT
not shown	Wiring harness, IBC to controls (GV, Press. Sw & Limits)	591-391-985WT
not shown	Wiring harness, Thermostat	591-392-005WT
not shown	Wiring harness, Sensor	591-391-995WT



WARNING The boiler contains ceramic fiber and fiberglass materials. Use care when handling these materials per instructions on page 103 of this manual. Failure to comply could result in severe personal injury.



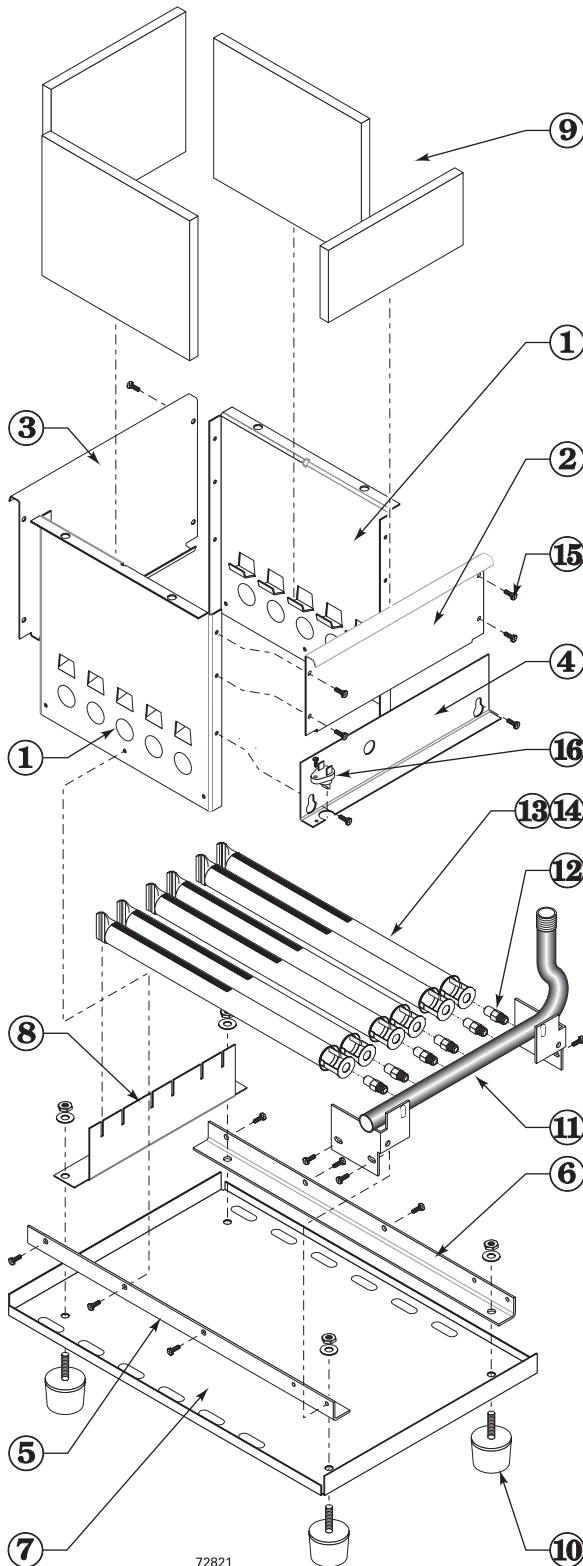


72820

Item number	Description		Part number
not shown	Replacement section assembly	GWI-047 & GWI-063 GWI-095 GWI-127 GWI-158 GWI-190	321-114-345WT 321-114-346WT 321-114-347WT 321-114-348WT 321-114-349WT
1	Radiation plate (1 per joint)		460-003-700WT
2	Collector hood and transition assembly	GWI-047 GWI-063 GWI-095 GWI-127 GWI-158 GWI-190	381-354-581WT 381-354-582WT 381-354-583WT 381-354-584WT 381-354-585WT 381-354-586WT
3	Temperature/ Sensor	Tasseron TSL055D	381-356-577WT
4	Inducer fan assembly kit, includes inducer assembly, gasket and nuts:	GWI-047 to GWI-158 GWI-190 GWI-047-190 S1 & S2	381-354-580WT 381-356-499WT 381-354-588WT
5	Gasket, inducer	GWI-047 to GWI-190	590-317-627WT



The boiler contains ceramic fiber and fiberglass materials. Use care when handling these materials per instructions on page 103 of this manual. Failure to comply could result in severe personal injury.

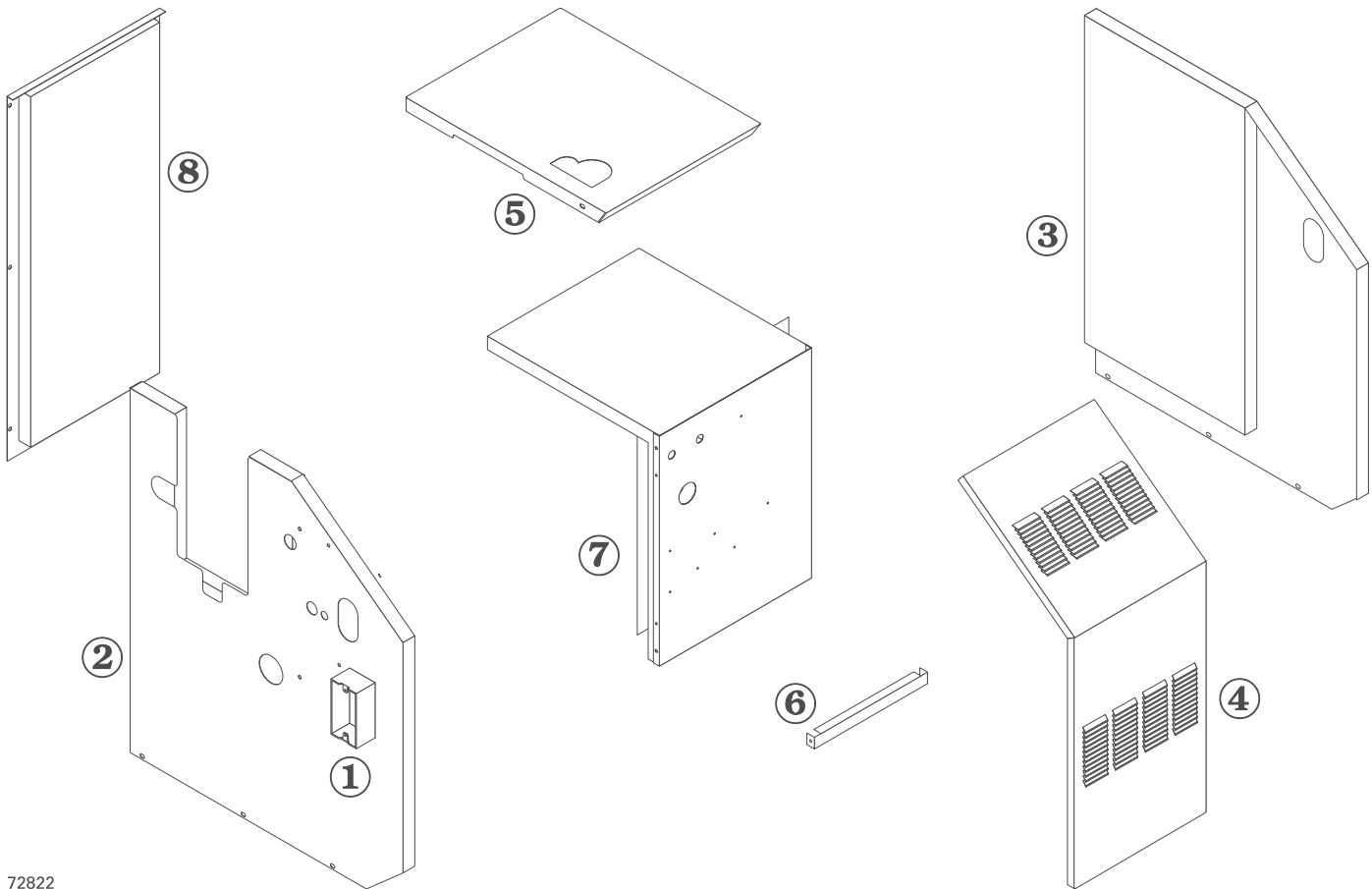


Item number	Description	Part number
	Base assembly kit (includes base panels items 1, 2, 3, 4, 5, 6, and 7, plus insulation, air box gaskets, and hardware)	GW-047 & GW-063 GW-095 GW-127 GW-158 GW-190
1	Base side panel (in Base assembly)	381-354-800WT 381-354-801WT 381-354-802WT 381-354-803WT 381-354-804WT
2	Base front cross-tie assembly (in Base assembly)	
3	Base back cross-tie assembly (in Base assembly)	
4	Access Panel (as separate service part) (also in Base assembly)	GW-047 GW-063 GW-095 GW-127 GW-158 GW-190
5	Base pan angle, left side (in Base assembly)	460-003-741WT 460-003-742WT 460-003-743WT 460-003-744WT 460-003-745WT 460-003-746WT
6	Base pan angle, right side (in Base assembly)	
7	Base pan (in Base assembly)	
8	Burner rest (in Base assembly)	
9	Base insulation kit (includes insulation for all base parts above plus gasket material needed between block assembly and base)	GW-047 to GW-127 GW-158 & GW-190
10	Boiler leg kit	381-354-518WT 381-354-519WT
11	Manifold	590-424-252WT
12	Main burner orifice, sea level	GW-047 GW-063 GW-095 GW-127 GW-158 GW-190
13	Burner, stainless steel	591-126-615WT 591-126-616WT 591-126-617WT 591-126-618WT 591-126-619WT 591-126-556WT
14	Burner with pilot bracket (not shown)	Natural gas Propane gas
15	Screw, 10-32 x 3/8 STP type D hx, washer head slot ZP	560-528-997WT 560-528-998WT
16	Rollout thermal fuse element	512-200-077WT
		512-200-078WT 512-200-079WT
		available at local supply house
		512-050-230WT

Model	Qty
47	3
63	4
95	6
127	8
158	10
190	12



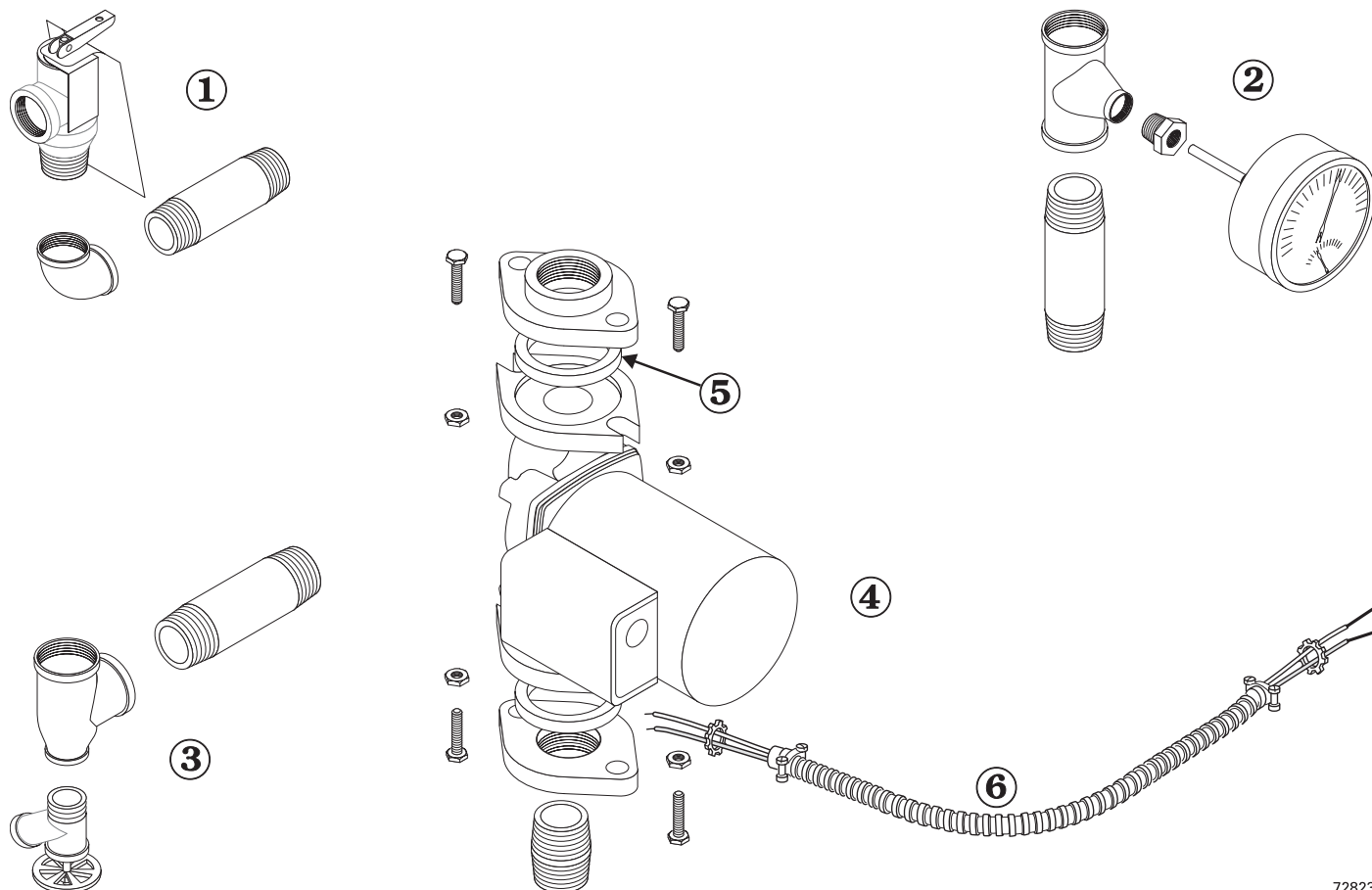
The boiler contains ceramic fiber and fiberglass materials. Use care when handling these materials per instructions on page 103 of this manual. Failure to comply could result in severe personal injury.



72822

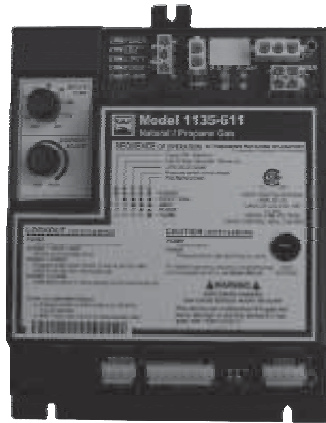
Item number	Description		Part number	Part number
1	Junction box, 2 x 4 (Available at local supply house)			
2	Jacket panel, left side with insulation		<u>Natural Gas</u>	<u>Propane Gas</u>
		GWI-047 GWI-063 GWI-095 GWI-127 GWI-158 GWI-190	431-223-604WT 431-223-606WT 431-223-608WT 431-223-610WT 431-223-612WT 431-223-614WT	431-223-616WT 431-223-617WT 431-223-618WT 431-223-619WT 431-223-620WT 431-223-621WT
3	Jacket panel, right side with insulation	GWI-047 GWI-063 GWI-095 GWI-127 GWI-158 GWI-190		431-223-605WT 431-223-607WT 431-223-609WT 431-223-611WT 431-223-613WT 431-223-615WT
4	Jacket panel, door	GWI-047 & 063 GWI-095 GWI-127 GWI-158 GWI-190		431-223-598WT 431-223-599WT 431-223-600WT 431-223-601WT 431-223-602WT

Item number	Description		Part number
5	Jacket panel, top	GWI-047 & GWI-063 GWI-095 GWI-127 GWI-158 GWI-190	431-223-439WT 431-223-440WT 431-223-441WT 431-223-442WT 431-223-443WT
6		GWI-047 & GWI-063 GWI-095 GWI-127 GWI-158 GWI-190	431-223-507WT 431-223-508WT 431-223-509WT 431-223-510WT 431-223-511WT
7	Jacket panel, interior, with insulation	GWI-047 & GWI-063 GWI-095 GWI-127 GWI-158 GWI-190	431-223-427WT 431-223-428WT 431-223-429WT 431-223-430WT 431-223-431WT
8	Jacket panel, rear, with insulation	GWI-047 & GWI-063 GWI-095 GWI-127 GWI-158 GWI-190	431-223-444WT 431-223-445WT 431-223-446WT 431-223-447WT 431-223-448WT

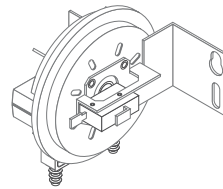


72823

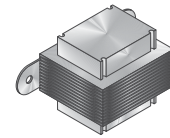
Item number	Description	Manufacturer	Manufacturer's part number	Part number
1	Pressure relief valve, ASME, 30 PSIG, 3/4" male inlet	Conbraco Watts	10-407-05 M330	511-546-920WT
	Pressure relief valve, ASME, 30 PSIG, 3/4" female inlet (Fittings shown are factory-installed on boiler.)	Conbraco Watts	10-408-05 335	511-546-924WT
2	Combination pressure-temperature gauge, with 2 1/2" short shank	Ametek ENFM	PTA-1088 4104	510-218-099WT
3	Drain valve, 3/4" (Fittings shown are included with boiler.)	Conbraco Hammond Valve Matco-Norca Watts	31-606-01 710 205F04 BD-2C	511-210-423WT
4	Circulator (Fittings shown are shipped loose with boiler.)	Taco	007	511-405-113WT
5	Circulator gasket, universal (2 per boiler)			590-317-535WT
not shown	Circulator hardware kit, includes: 2 flanges, 4 nuts, 4 screws, 2 pipe nipples — 1" NPT — GWI-047 through GWI-127 1 1/4" NPT — GWI-158 through GWI-190			381-354-525WT 381-354-526WT
6	Circulator wiring harness kit, spark-ignition with molex (loose)			381-356-528WT



①

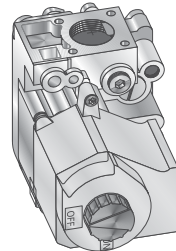


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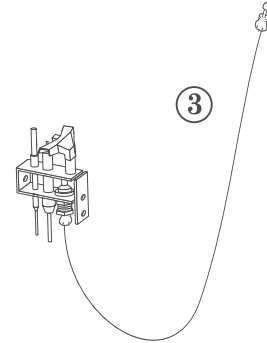


④

②



③

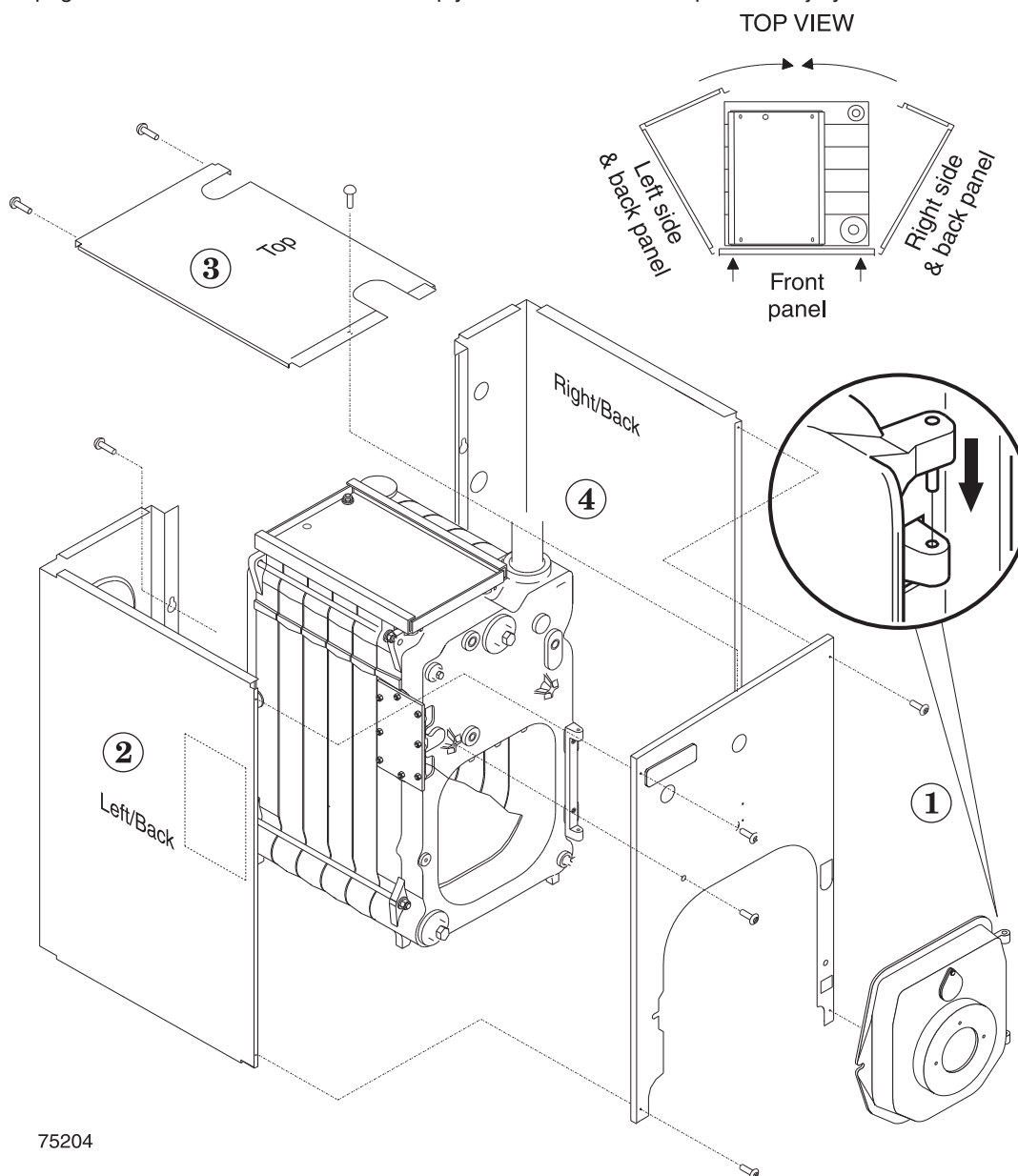


72824

Item number	Part description	Boiler model number	Manufacturer	Manufacturer's part number	Part number
1	Ignition Control	All	United Technologies	1135-611	381-330-016WT
2 (Natural gas)	Gas valve, 1/2" x 1/2", Natural gas	GW-047 to GW-158	Honeywell White-Rodgers	VR8204A-2001 36E36-266	511-044-381WT
	Gas valve, 3/4" x 3/4", Natural gas	GW-190	Honeywell White-Rodgers	VR8304P-4348 36C-478	511-044-353WT
2 (Propane gas)	Gas valve, 1/2" x 1/2", Propane	GW-047 to GW-158	Honeywell White-Rodgers	VR8204M-2701 36E36-291	511-044-354WT
	Gas valve, 3/4" x 3/4", Propane	GW-190	Honeywell White-Rodgers	VR8304M-4010 36C68-479	511-044-355WT
3 (Natural gas)	Pilot assembly kit with orifice and aluminum pilot gas tubing	All			511-330-218WT
3 (Propane gas)	Pilot assembly kit with orifice and aluminum pilot gas tubing	All			511-330-219WT
4	Control transformer		Honeywell		381-356-578WT
5	Pressure switch, 1.19 Inches W. C. Pressure switch, 1.08 Inches W. C. Pressure switch, 0.86 Inches W. C. Pressure switch, 0.61 Inches W. C. Pressure switch, 0.76 Inches W. C.	GW-047 & GW-063 GW-095 GW-127 GW-158 GW-190	Tri-Delta	PP510193-3120 PP510193-3121 PP510193-3122 PP510193-3123 PP510193-3124	511-624-350WT 511-624-351WT 511-624-352WT 511-624-353WT 511-624-354WT
not shown	Kit-Conversion Natural-LP S1/S2	GW-047 to GW-158	Williamson-Thermoflo		510-811-048WT
not shown	Kit-Conversion Natural-LP S1/S2	GW-190	Williamson-Thermoflo		510-811-049WT
not shown	Kit-Conversion LP-Natural S1/S2	GW-047 to GW-158	Williamson-Thermoflo		510-811-050WT
not shown	Kit-Conversion LP-Natural S1/S2	GW-190	Williamson-Thermoflo		510-811-051WT
not shown	Wiring harness, junction box to control module		Williamson-Thermoflo		591-391-975WT
not shown	Wiring harness, controls to control module		Williamson-Thermoflo		591-391-978WT
not shown	Wiring harness, thermostat		Williamson-Thermoflo		591-391-994WT
not shown	Wiring harness, sensor		Williamson-Thermoflo		591-391-995WT



The boiler contains ceramic fiber and fiberglass materials. Use care when handling these materials per instructions on page 103 of this manual. Failure to comply could result in severe personal injury.



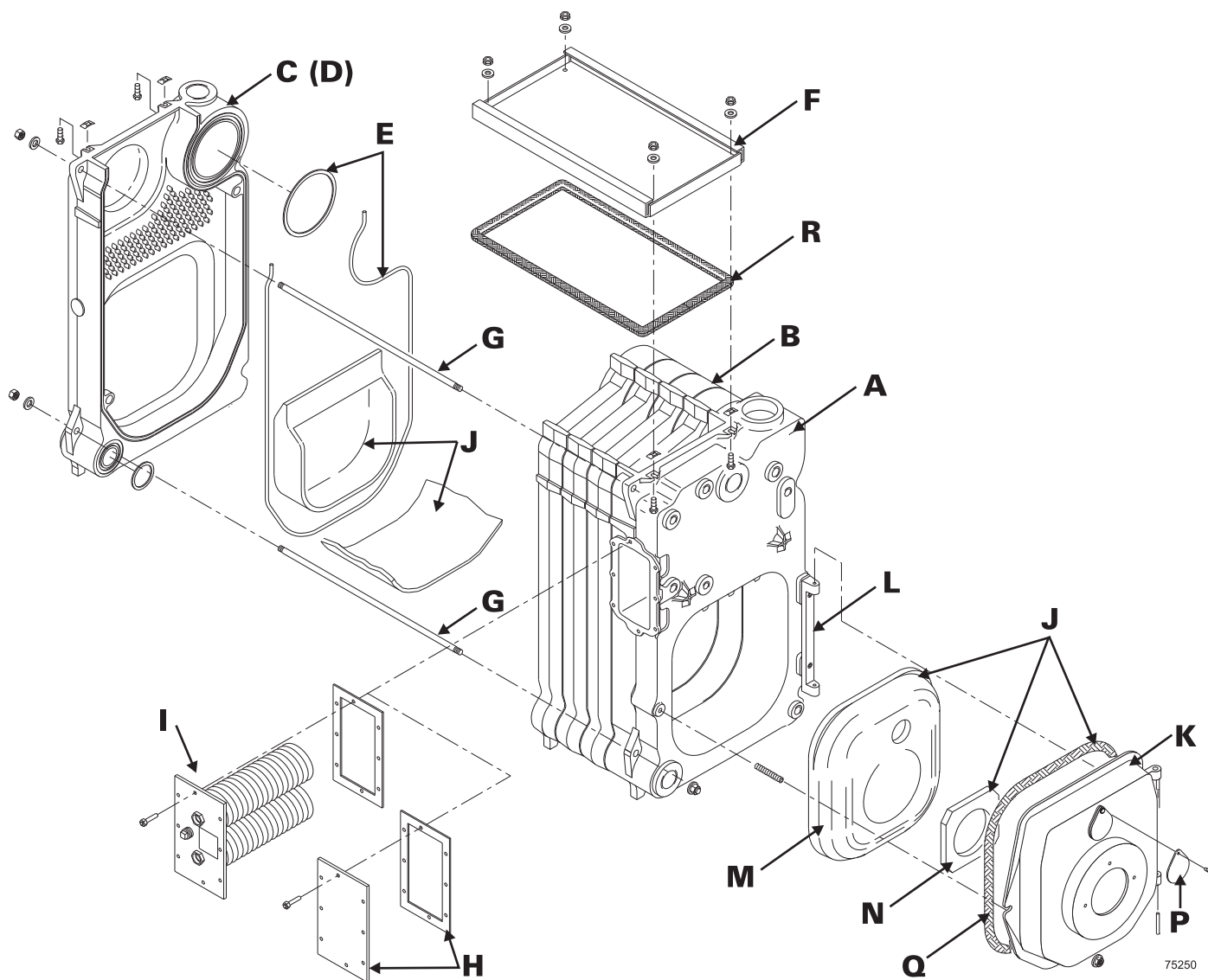
(1) CP number required

Series 2 jacket left side panel includes a factory-applied U.L. label. To obtain the series 2 jacket, you must provide the boiler CP number. OSB boilers with CP number lower than 6549757 cannot be supplied with a series 2 jacket. Use part number shown on series 1 boilers, page 76.

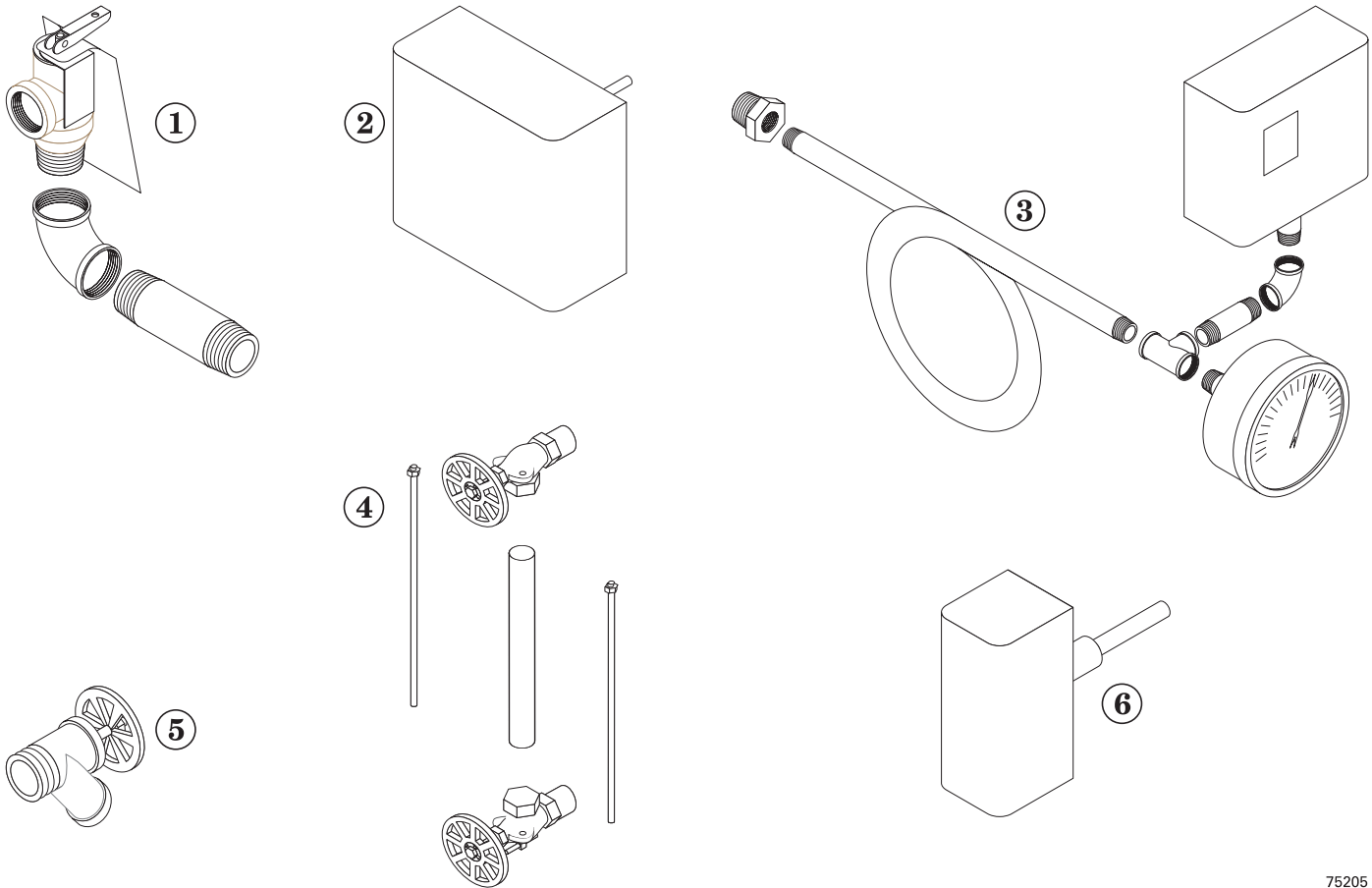
Item number	Description	Boiler model number	Part number
1	Jacket panel, front	All	426-722-005WT
2	Jacket panel, left side and back (Note 1)	OSB-3 OSB-4 OSB-5 OSB-6	426-722-227WT 426-722-229WT 426-722-231WT 426-722-233WT
3	Standard Jacket panel, top for back outlet	OSB-3 OSB-4 OSB-5 OSB-6	426-722-015WT 426-722-017WT 426-722-019WT 426-722-021WT

Item number	Description	Boiler model number	Part number
4	Jacket panel, right side and back	OSB-3 OSB-4 OSB-5 OSB-6	426-722-037WT 426-722-039WT 426-722-041WT 426-722-043WT
	Jacket hardware kit (screws for assembly)	All	386-700-845WT
	Optional Top Vent Service Kit (includes jacket top, jacket cover, collector hood, vent cover and vent cover strap)	OSB-3 OSB-4 OSB-5 OSB-6	386-700-200WT 386-700-201WT 386-700-202WT 386-700-203WT

Figure number	Description	Boiler model number	Part number
A	Wide front section, number 7121	All	316-700-326WT
B	Intermediate section, number 7015	All	316-700-065WT
C	Back section, number 7027 (steam, no top tapping)	OSB-3, -4, & -5	316-700-329WT
D	Back section, number 7027 (steam, top tapping)	OSB-6	316-700-312 WT
E	Section replacement kit, front or back section (for 1 joint, includes seals, rope, adhesive and collector hood hardware)	All	386-700-852WT
	Section replacement kit, intermediate section (for 2 joints, includes seals, rope and adhesive)	All	386-700-851WT
	Section assembly complete	OSB-3	326-700-408WT
		OSB-4	326-700-409WT
		OSB-5	326-700-410WT
		OSB-6	326-700-411WT
F	Standard Collector hood kit for back outlet (includes rope and hardware for installation)	OSB-3	386-700-237WT
		OSB-4	386-700-238WT
		OSB-5	386-700-239WT
		OSB-6	386-700-240WT
G	Tie rod ½ x 12-1/4"	OSB-3	560-234-493WT
	Tie rod ½ x 15-3/8"	OSB-4	560-234-532WT
	Tie rod ½ x 18-1/2"	OSB-5	560-234-475WT
	Tie rod ½ x 21-5/8"	OSB-6	560-234-536WT
H	Heater cover plate carton (Cover plate, gasket, studs and nuts)	All	389-900-103WT
I	Tankless heater carton, 35-S-29 (Heater, gasket, studs and nuts)	All	386-700-350WT
J	Combustion chamber kit (rear and front refractory, door refractory blanket and water glass)	All	386-700-836WT
	Burner mounting door assembly (door, observation port, rope, insulation and pins)	All	343-500-546WT
K	Burner mounting door, number 7171	All	330-054-305WT
L	Door hinge, number 7054	All	330-054-300WT
M	Door refractory	All	592-400-028WT
N	Door refractory blanket	All	591-222-115WT
P	Observation port shutter	All	460-039-867WT
Q	Door seal rope 5 feet	All	590-735-105WT
R	Glass rope 3/8" for collector hood (7 feet for largest size hood)	All	590-735-109WT
	Flue brush, 123D	All	591-706-214WT



75250

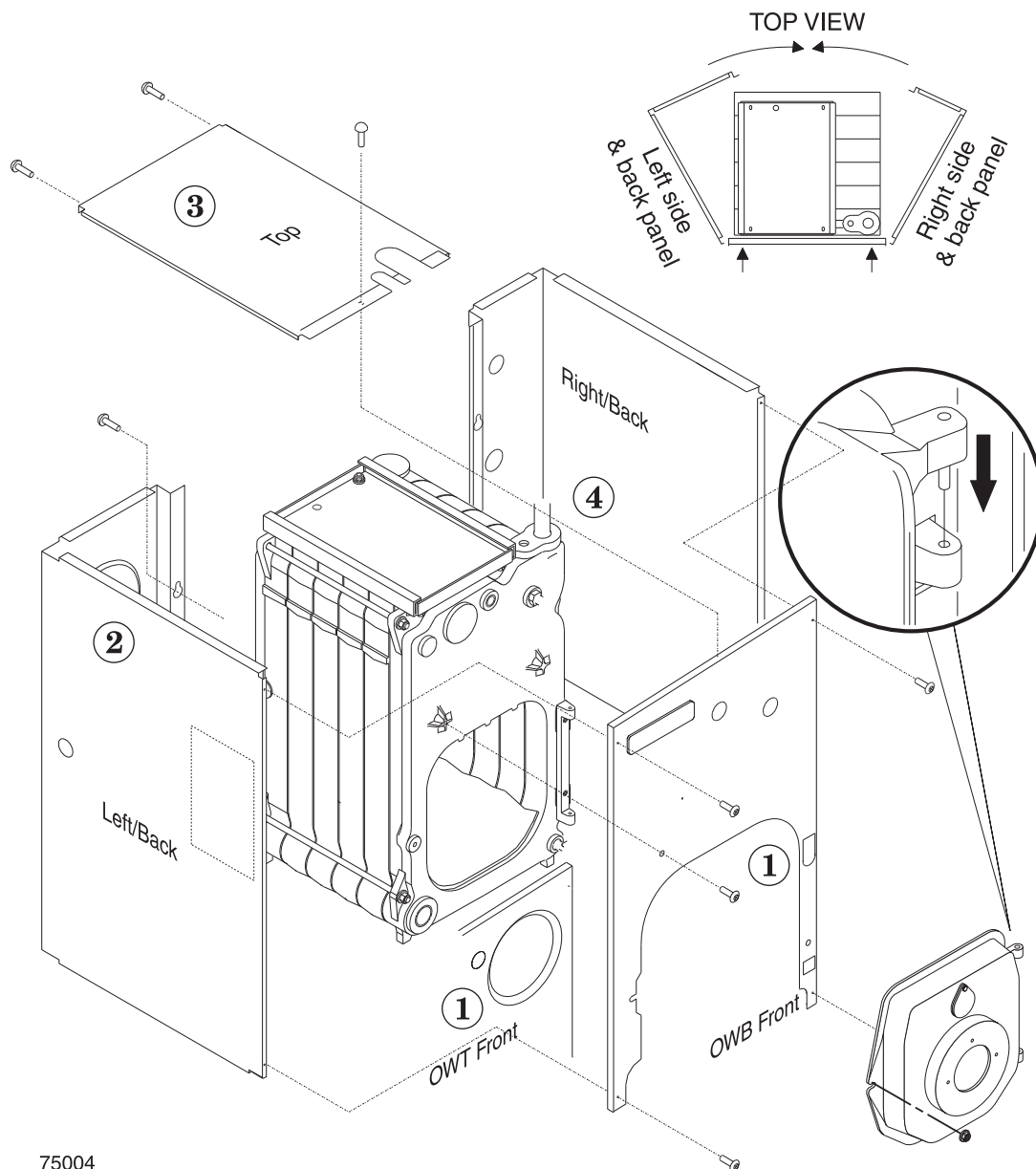


75205

Item number	Description	Manufacturer	Manufacturer's Part number	Part number
1	Pressure safety valve, ASME, 30 PSIG, ¾ NPT (Fittings shown are included --- Ell ¾ NPT, Nipple ¾ NPT)	Conbraco Watts	13-511-08 315	511-548-023WT 511-548-023WT
2	Low Water Cutoff, probe type	McDonnell & Miller Hydrolevel CycleGard	PS-801-120 45-450 CG450-1560	511-114-507WT 511-114-507WT 511-100-008WT
3	Limit control/gauge assembly, includes: High limit pressure control Gauge pressure 2-½" Dia. Siphon, ¼ NPT, 180° Brass Nipple, close ¼ NPT Tee, ¼ NPT Elbow ¼ NPT	Honeywell Inc. Ametek	PA404A1009 P505K	510-312-135WT 510-218-045WT 560-640-698WT 561-326-245WT 561-541-200WT 561-115-335WT
4	Gauge glass assembly, includes: Gauge water glass Gauge glass guards, 10.62" Gauge cock set, Brass	Conbraco	B15 Standard Stem	591-419-194WT 563-334-597WT 510-218-135WT
5	Drain valve, ¾ NPT, 1-½ Shank , Standard			511-210-423WT 511-246-392WT
6	Tankless temperature control (optional) 10° differential; with ¾ well	Honeywell Inc.	L4080B1311	510-312-209WT
not shown	Burner harness			591-391-966WT
not shown	Pressure control LWCO harness			591-391-912WT
not shown	Balanced draft damper (barometric)	Effikal Fields Control	ESOC-7 02723101	510-512-267WT 510-512-267WT



The boiler contains ceramic fiber and fiberglass materials. Use care when handling these materials per instructions on page 103 of this manual. Failure to comply could result in severe personal injury.



75004

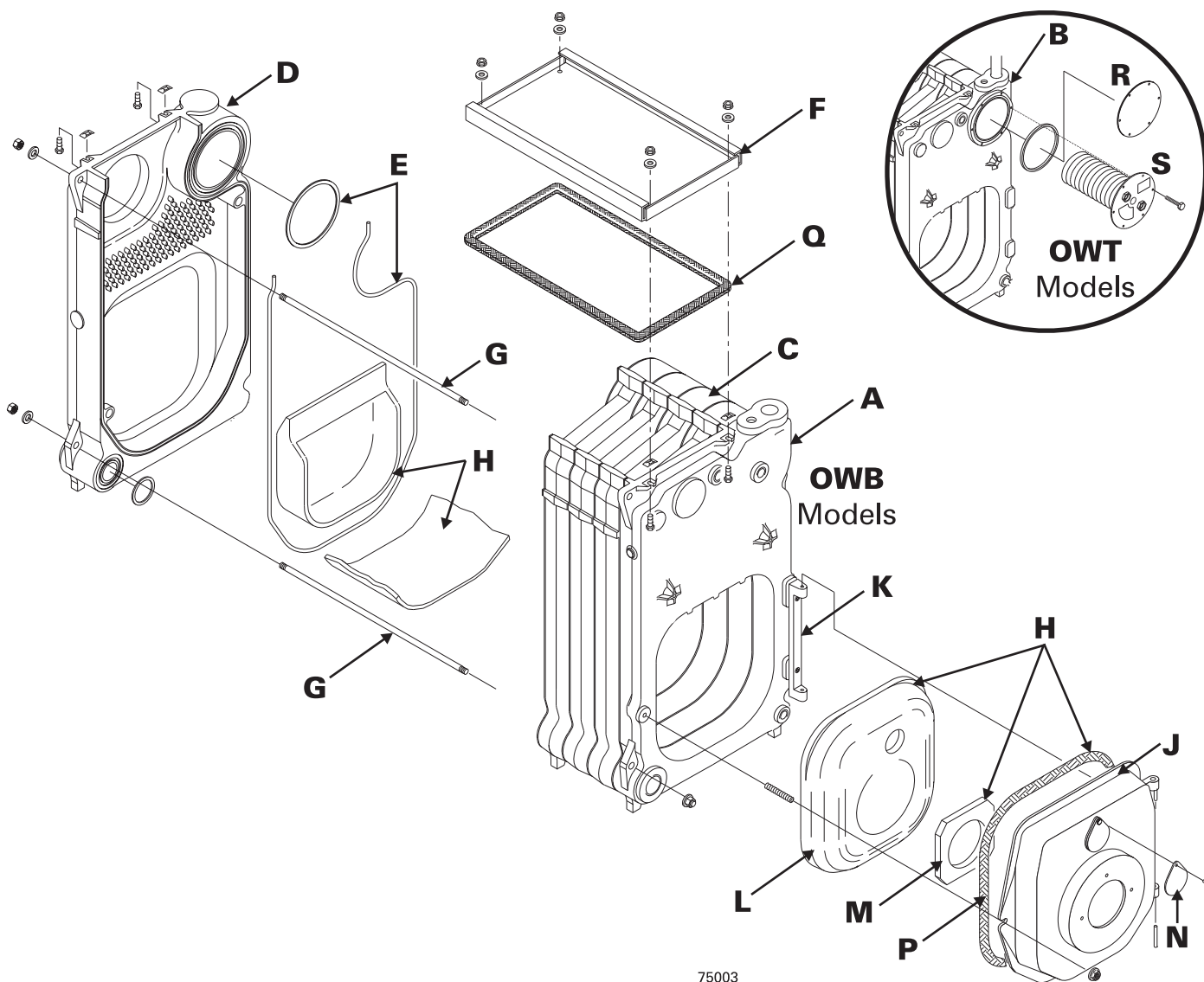
(1) CP number required

Series 2 jacket left side panel includes a factory-applied U.L. label. To obtain the series 2 jacket, you must provide the boiler CP number. OWB/OWT boilers with CP number lower than 6549757 cannot be supplied with a series 2 jacket. Use part number shown on series 1 boilers, page 80.

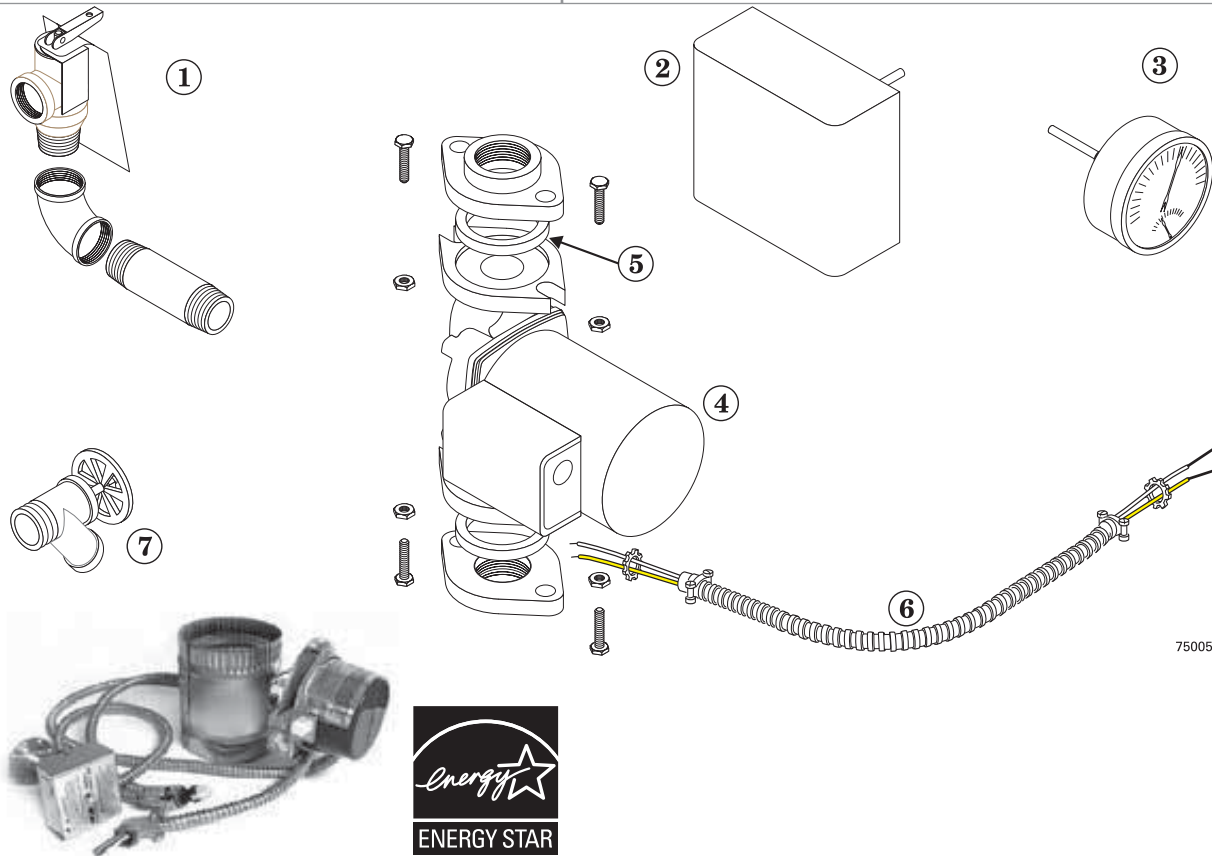
Item number	Description	Boiler model number	Part number
1	Jacket panel, front without heater opening with heater opening	OWB (All) OWT (All)	426-722-002WT 426-722-004WT
2	Jacket panel, left side and back (Note 1)	OWB/OWT-3 OWB/OWT-4 OWB/OWT-5 OWB/OWT-6	426-722-225WT 426-722-227WT 426-722-229WT 426-722-231WT
3	Standard Jacket panel top for back outlet	OWB/OWT-3 OWB/OWT-4 OWB/OWT-5 OWB/OWT-6	426-722-207WT 426-722-209WT 426-722-211WT 426-722-213WT

Item number	Description	Boiler model number	Part number
4	Jacket panel, right side and back	OWB/OWT-3 OWB/OWT-4 OWB/OWT-5 OWB/OWT-6	426-722-035WT 426-722-037WT 426-722-039WT 426-722-041WT
	Jacket hardware kit (screws for assembly)	All	386-700-845WT
	Optional Top Vent Service Kit (includes jacket top jacket cover, collector hood, vent cover and vent cover strap)	OWB/OWT-3 OWB/OWT-4 OWB/OWT-5 OWB/OWT-6	386-700-846WT 386-700-847WT 386-700-848WT 386-700-849WT

Figure number	Description	Boiler model number	Part number
A	Front section, number 7122	All OWB	316-700-323WT
B	Front section with tankless heater opening, number 7123	All OWT	316-700-320WT
C	Intermediate regular section, number 7015	All	316-700-065WT
D	Back section, number 7027	All	316-700-309WT
E	Section replacement kit, front or back section (for 1 joint, includes seals, rope, adhesive and collector hood hardware)	All	386-700-852WT
	Section replacement kit, intermediate section (for 2 joints, includes seals, rope and adhesive)	All	386-700-851WT
	Section assembly complete	OWB-3	326-700-400WT
		OWB-4	326-700-401WT
		OWB-5	326-700-402WT
		OWB-6	326-700-403WT
		OWT-3	326-700-404WT
		OWT-4	326-700-405WT
		OWT-5	326-700-406WT
		OWT-6	326-700-407WT
F	Standard Collector hood kit for back outlet (includes rope and hardware for installation)	OWB/OWT-3	386-700-241WT
		OWB/OWT-4	386-700-242WT
		OWB/OWT-5	386-700-243WT
		OWB/OWT-6	386-700-244WT
G	Tie rod ½ x 10-¾"	OWB/OWT-3	560-234-491WT
	Tie rod ½ x 14"	OWB/OWT-4	560-234-470WT
	Tie rod ½ x 17"	OWB/OWT-5	560-234-472WT
	Tie rod ½ x 20"	OWB/OWT-6	560-234-534WT
H	Combustion chamber kit (rear and front refractory, door refractory blanket and water glass)	All	386-700-836WT
	Burner mounting door assembly (door, observation port, rope, insulation and pins)	All	343-500-546WT
J	Burner mounting door, number 7171	All	330-054-305WT
K	Door hinge, number 7054	All	330-054-300WT
L	Door refractory	All	592-400-028WT
M	Door refractory blanket	All	591-222-115WT
N	Observation port shutter	All	460-039-867WT
P	Door seal rope 5 feet	All	590-735-105WT
Q	Glass rope 3/8" for collector hood (7 feet for largest size hood)	All	590-735-109WT
R	Heater cover plate carton (cover plate, gasket, studs and nuts)	All	386-700-360WT
S	Tankless heater kit (heater, gasket, studs and nuts) OWT-3 (heater model WT-11) OWT-4 through OWT-6 (heater model WT-14)	OWT-3 OWT-4, -5 & -6	590-921-599WT 590-921-612WT
	Flue brush, 123D	All	591-706-214WT



75003



Item number	Description	Manufacturer	Manufacturer's Part number	Part number
1	Pressure relief valve, ASME, 30 PSIG, 3/4" male inlet	Watts	M330	511-546-920WT
2	Combination high limit/low limit/circulator relay control *	Hydrolevel	3150	381-356-530WT
	* - LWCO with Electro-Well™ installed. Electro-Well OWB Only Electro-Well OWT Only			592-300-026WT 592-300-027WT
3	Combination pressure-temperature gauge	Amekai	OS234JDTW003	510-218-099WT
4	Circulator (Fittings shown are shipped loose with boiler.)	Taco	007	511-405-113WT
5	Circulator gasket, universal (2 per boiler)			590-317-535WT
	Circulator hardware kit, includes: 2 flanges, 4 nuts, 4 bolts, 1 nipple, 1 ell — 1 1/4" NPT — OWB/OWT-3 & OWB/OWT-4 1 1/2" NPT — OWB/OWT-5 & OWB/OWT-6			381-354-526WT 381-354-531WT
6	Circulator wiring harness			591-391-911WT
7	Drain valve, 3/4" NPT, 1-1/2" Shank Drain valve, 3/4" NPT, Standard			511-210-423WT 511-246-392WT
8	Burner wiring harness			591-391-910WT
9	Balanced draft damper (barometric) (Not shown)	Effikal Fields Control	ESOC-7 02723101	510-512-267WT
10	Vent damper kits - Required for ENERGY STAR® compliance, (Version 3.0 Boilers specification of 87% AFUE), with reduced rates only OWB/OWT-3-T-S2-D (Optional equipment) OWB/OWT-4-T-S2-D (Optional equipment) OWB/OWT-5-T-S2-D (Optional equipment) OWB/OWT-6-T-S2-D (Optional equipment)	Fields Control	OVD-7	381-800-502WT 381-800-503WT 381-800-504WT 381-800-505WT

WHEN USING Hydrostat 3150 Control on OWB or OWT Series 2:

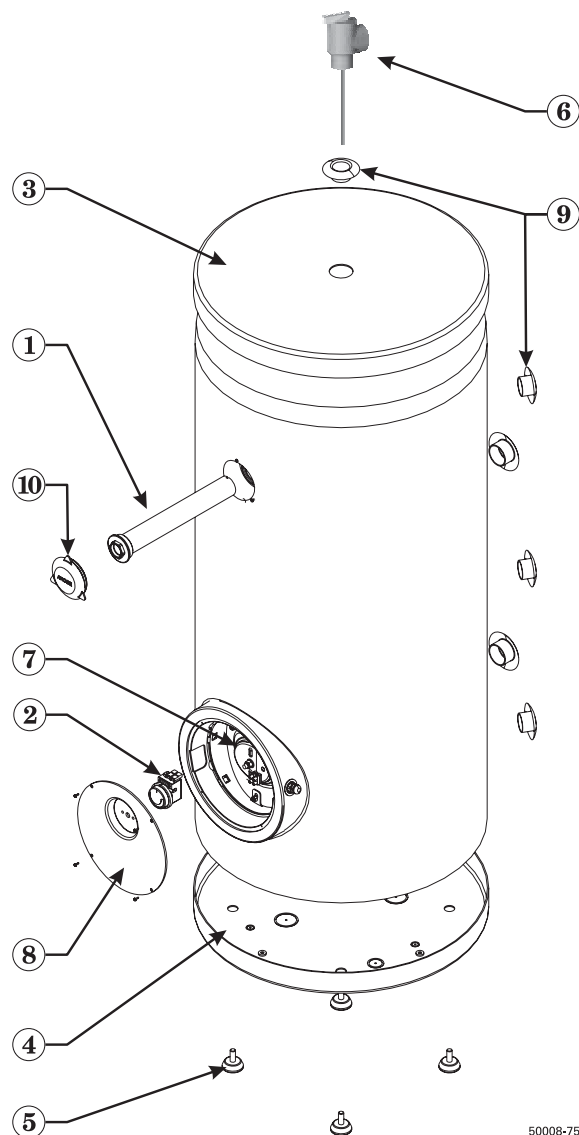
For boilers using the Hydrostat 3150 control, the following Electro well is also required (not illustrated):

OWB — well part number 592-300-026WT

OWT — well part number 592-300-027WT

Model GL Indirect-fired water heater	Water heater replacement parts	
	Parts for this model are shown on this page only.	

Item	Description	Model GL	Williamson-Thermoflo Part Number
1	Magnesium anode replacement kit (includes anode, o-ring, insulating washer and brass bushing)	32/42/53/80	633-500-017WT
		105	633-500-019WT
2	Thermostat repair kit	Model GL Residential (32/42/53)	633-500-022WT
		Model GL Commercial (80/105)	633-500-023WT
3	Top plastic cap replacement kit	32/42/53	633-500-027WT
		80	633-500-028WT
		105	633-500-029WT
4	Bottom plastic cap replacement kit (plastic cap and 4 screws)	32/42/53	633-500-033WT
		80	633-500-034WT
		105	633-500-035WT
5	Leveling leg replacement kit (4)	All	633-500-036WT
6	Temperature & pressure relief valve kit	32/42/53	633-500-038WT
		80/105	633-500-039WT
NS	Inspection and service kit (includes inspection plate and anode seals)	All	633-500-043WT
7	Inspection plate replacement kit	All	633-500-045WT
8	Inspection hatch cover replacement kit	All	633-500-047WT
9	Fitting grommet	3/4" 1"	633-500-064WT 633-500-037WT
10	Anode cover	All	633-500-048WT
NS	Jacket replacement kit	32	633-500-059WT
		42	633-500-060WT
		53	633-500-061WT
		80	633-500-062WT
		105	633-500-063WT
NS	Mixing valve kit, 1"	All	633-500-012WT



50008-75



Williamson-Thermoflo

Discontinued Models

Model
FreeStyle®
Series 1
Gas-fired Water Boilers

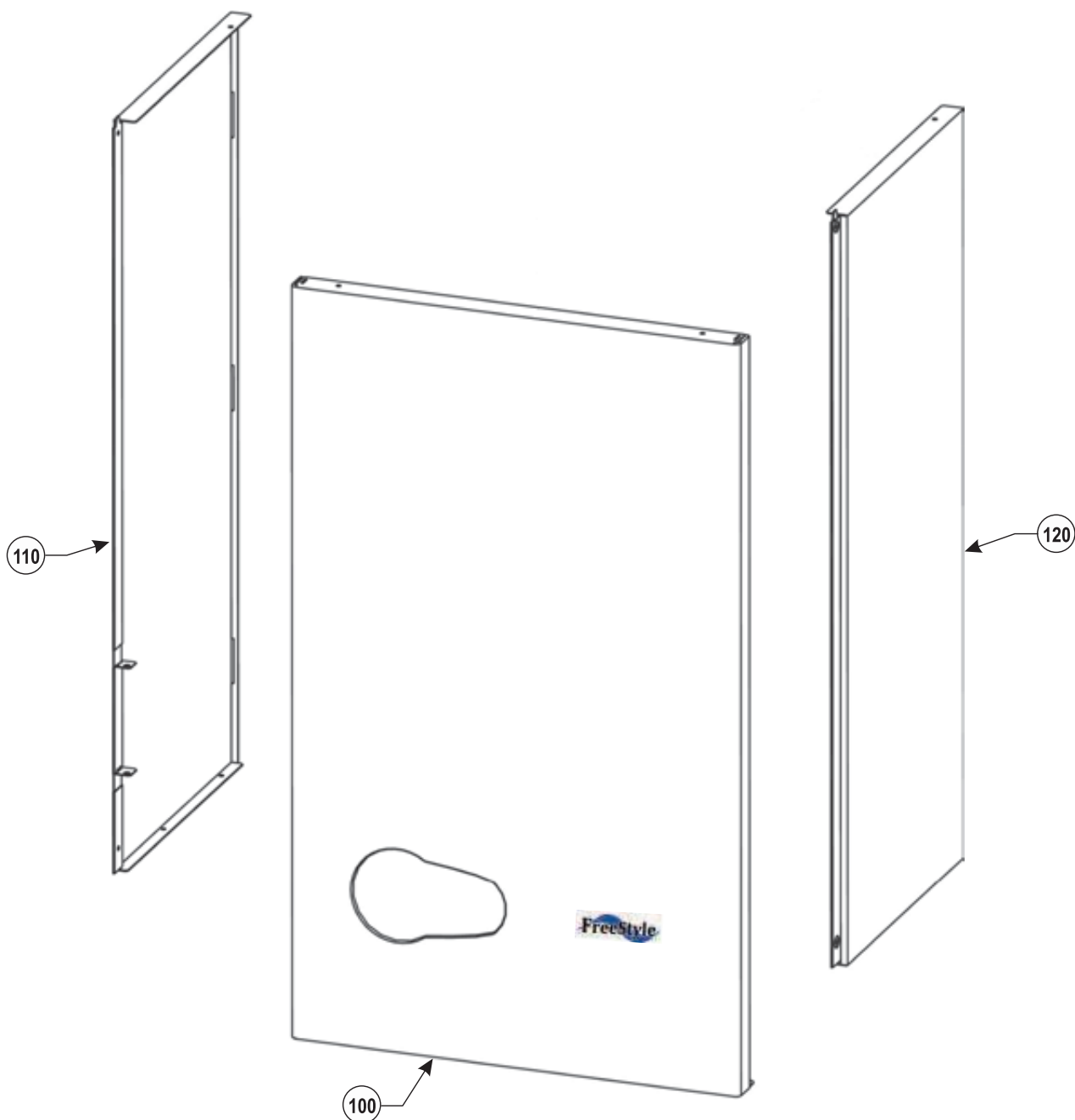
Miscellaneous parts and kits
80/120/155

Part numbers for this model are shown below.

Description	Part Number
Antifreeze, Sentinel X500.	592-900-029WT
Corrosion inhibitor, Sentinel X100	592-900-002WT
Quick Test Kit, Sentinel X100.	592-900-005WT
Cleaner, Sentinel X400.	592-900-003WT
Wall-mount kit (supplied with boiler) — wall mount bracket and hardware	640-000-044WT
Condensate trap kit (supplied with boiler) — condensate trap assembly and flexible line	640-000-073WT
Condensate neutralizer kit	383-500-631WT
Sidewall separate pipes vent/air termination kits (includes two cover plates)	
Kit for 2" PVC vent and air pipes.	383-700-171WT
Kit for 3" PVC vent and air pipes.	383-500-100WT
Kit for 3" AL29-4C and air pipe.	383-700-172WT
PVC concentric vent kit — horizontal or vertical (includes components for concentric assembly)	
Kit for 2" PVC vent and air pipes.	383-700-167WT
Kit for 3" PVC vent and air pipes.	383-500-350WT
Bird screens (1 screen each)	
For 2" PVC vent and air pipes	383-500-106WT
For 3" PVC vent and air pipes	383-500-105WT
M&G Simpson-Duravent PolyPro SIDEWALL concentric vent/air kit (color: white)	
2" polypropylene pipe	2PPS-HK
3" polypropylene pipe	3PPS-HK

Description	Part Number
M&G Simpson-Duravent PolyPro VERTICAL concentric vent/air kit; color = black (part number shown) or terra cotta (add -TC suffix)	
2" polypropylene pipe	2PPS-VK
3" polypropylene pipe	3PPS-VK
M&G Simpson-Duravent PolyPro SIDEWALL separate air and vent pipes	
2" polypropylene pipe	2PPS-HTP
3" polypropylene pipe	3PPS-HTP
Centrotherm INNOFLUE SIDEWALL concentric vent/air kit	
3" polypropylene pipe	ICWT352
2" stainless steel/pp pipe	ICWS2413
3" stainless steel/pp pipe	ICWS3513
Centrotherm INNOFLUE VERTICAL concentric vent/air kit	
2" polypropylene pipe	ICRT2439
3" polypropylene pipe	ICRT3539

Item	Name	Part Number
100	Jacket door	640-000-067
110	Jacket left side	640-000-065
120	Jacket right side	640-000-066

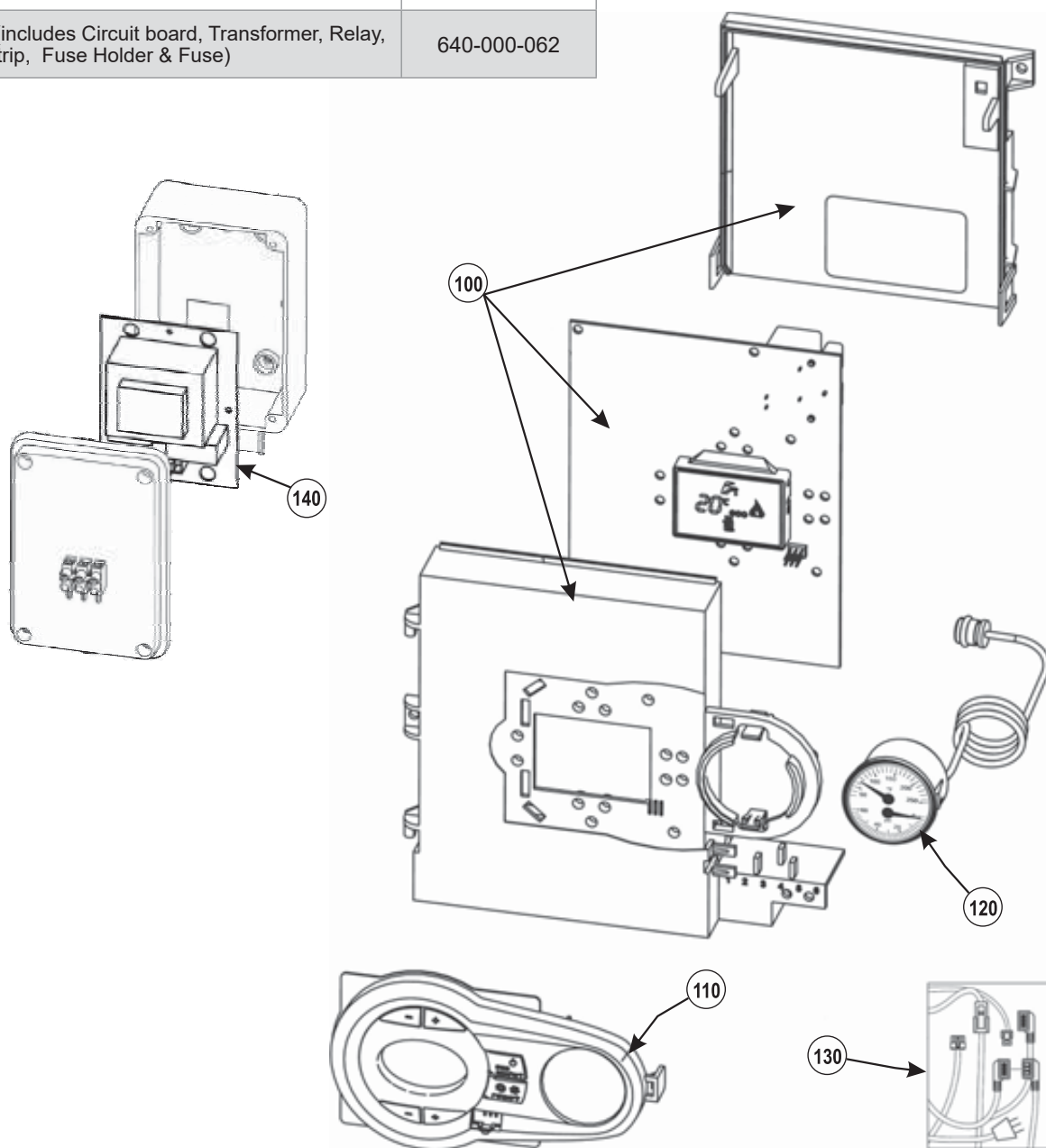


Model
FreeStyle®
Series 1
 Gas-fired Water Boilers

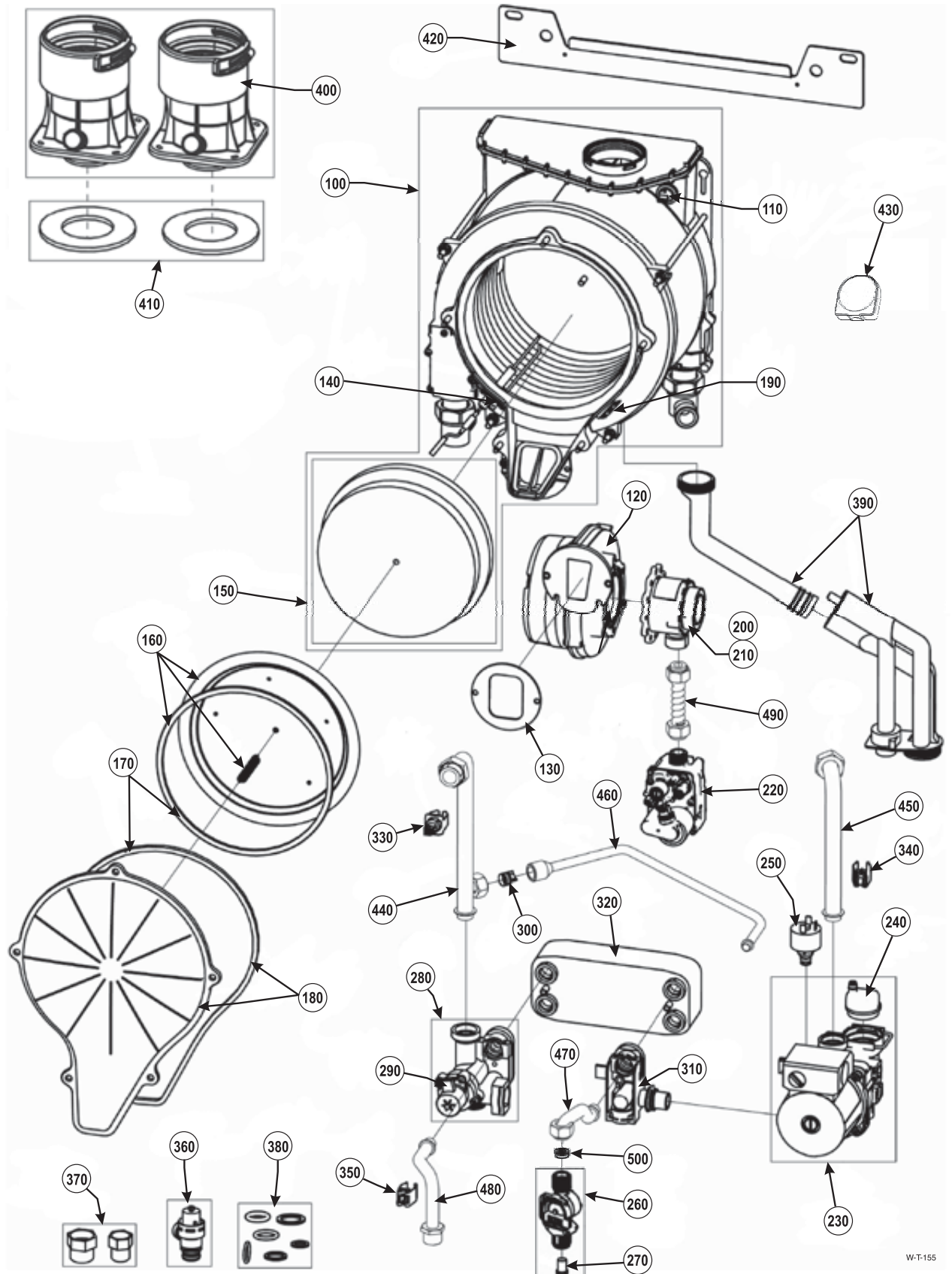
Control and electrical assemblies
80/120/155

Part numbers for this model are shown below.

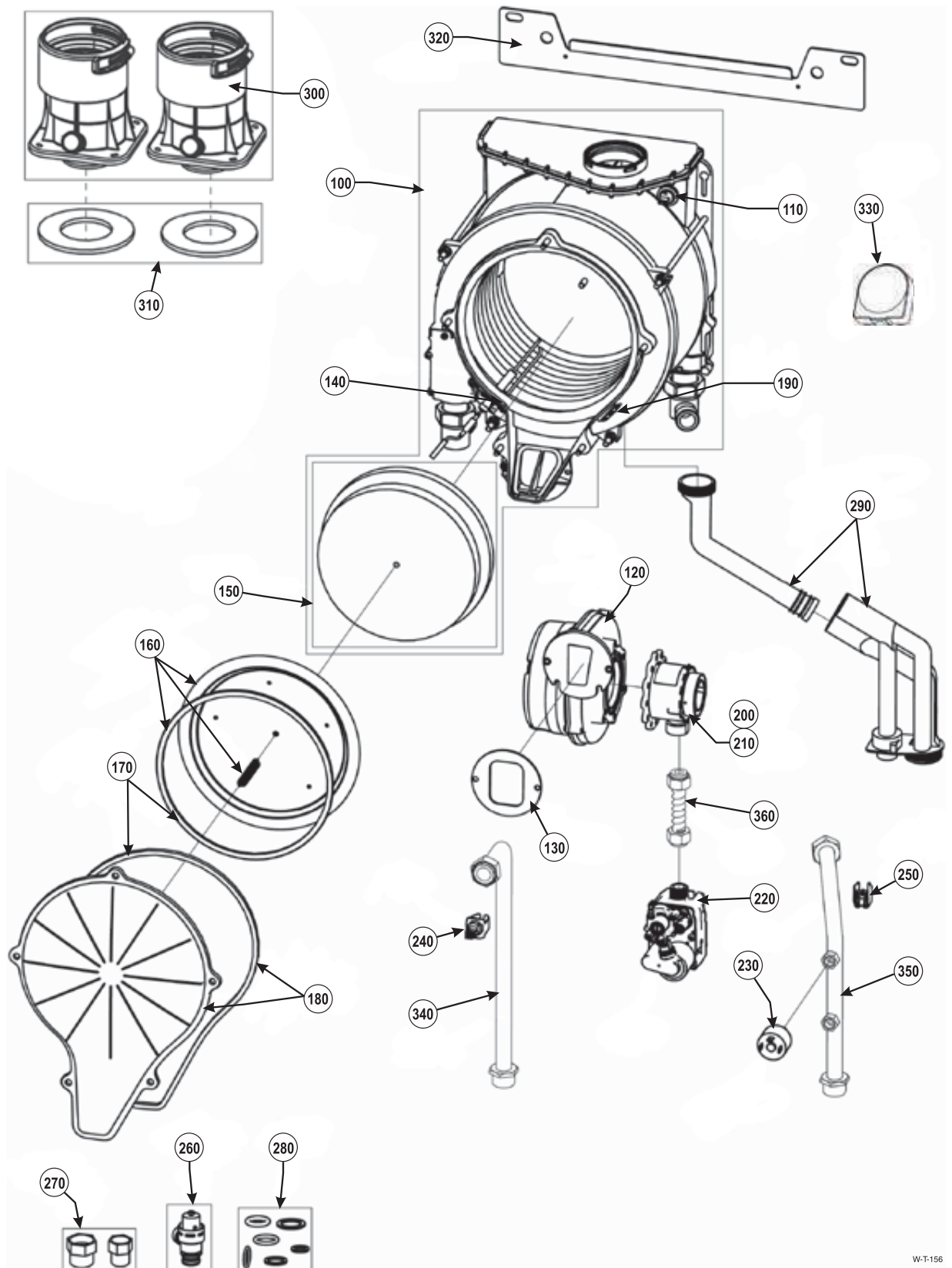
Item	Name	Part Number
100	Control module assembly	640-000-003WT
110	Control module display cover	640-000-004
120	Pressure-Temperature assembly	640-000-006
130	Wire harness assembly - Combi - 80/120	640-000-005
	Wire harness assembly - Combi - 155	640-000-085
	Wire harness assembly - Heating Only	640-000-053
	Blower wiring adapter - Heating Only - 155	640-000-103
140	PCB only (includes Circuit board, Transformer, Relay, Terminal strip, Fuse Holder & Fuse)	640-000-062



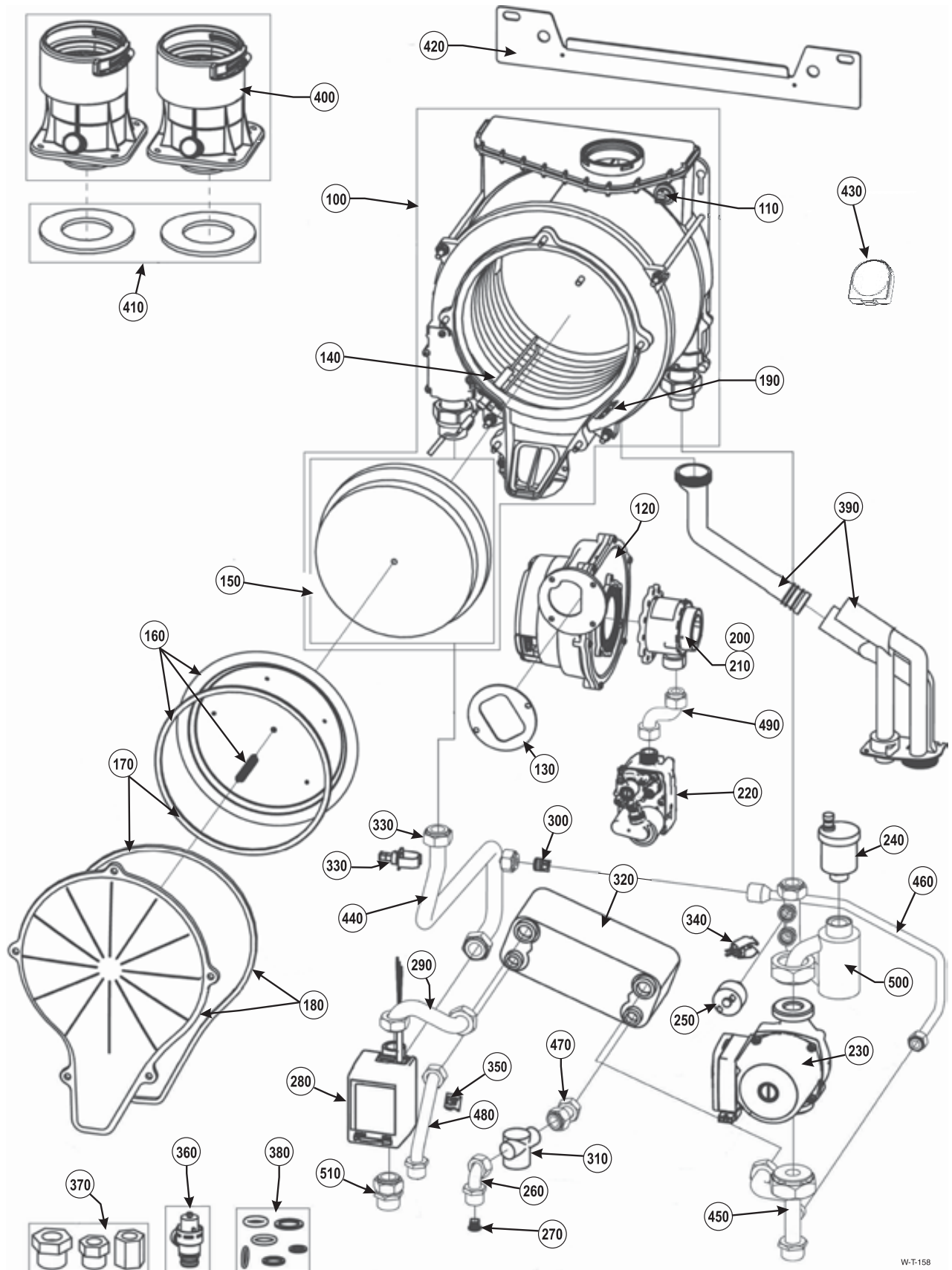
Item	Name	Part Number	Model	
			FS-80	FS-120
100	Heat Exchanger	640-000-008WT	●	—
		640-000-009	—	●
110	Flue Sensor Temperature	640-000-011	●	●
120	Blower Assembly	640-000-020WT	●	●
130	Blower Gasket	640-000-021	●	●
140	Ignitor	640-000-109WT	●	●
150	Central Heat Exchanger Insulation	640-000-010	●	●
160	Burner	640-000-012WT	●	●
170	Burner Gasket Set	640-000-013	●	●
180	Burner Cover	640-000-016	●	●
190	Inspection Glass	640-000-015	●	●
200	Kit - Natural Gas Conversion	640-000-022WT	●	—
		640-000-023WT	—	●
210	Kit - Liquefied Petroleum (Propane) Gas Conversion	640-000-024WT	●	—
		640-000-025WT	—	●
220	Gas Valve VK8205V	640-000-037WT	●	●
230	Circulator FX3-FP	640-000-017	●	●
240	Air Separator	640-000-018	●	●
250	Water Pressure Switch	640-000-019	●	●
260	Flow Meter	640-000-026	●	●
270	Water Filter	640-000-027WT	●	●
280	Valve 3- Way	640-000-028	●	●
290	Motor 3- Way Valve	640-000-029	●	●
300	N/R Valve Fitting	640-000-030	●	●
310	DHW R. Plate Connection	640-000-031WT	●	●
320	Plate Exchanger 16P.	640-000-032WT	●	—
	Plate Exchanger 20P.	640-000-033WT	—	●
330	CH Temperature Probe DP	640-000-034	●	●
340	CH Temperature Probe US	640-000-035	●	●
350	DHW Temperature Probe US	640-000-036	●	●
360	Relief Valve 3/4"	640-000-038	●	●
370	NPT Adapters	640-000-039	●	●
380	Gasket Set	640-000-007	●	●
390	Condensate Drain Trap	640-000-068	●	●
400	Vent Adapters (2 adapters in kit)	640-000-107	●	●
410	Gaskets - Vent Adapter (2 gaskets in kit)	640-000-108	●	●
420	Wall Mount Bracket	640-000-044	●	●
430	Outdoor Temperature Sensor	640-000-043	●	●
440	CH - Flow Pipe	640-000-069	●	—
		640-000-070	—	●
450	CH - Return Pipe	640-000-071	●	●
460	Bypass Pipe	640-000-049	●	●
470	Flow Meter Pipe	640-000-050	●	●
480	DHW Outlet Pipe	640-000-051	●	●
490	Gas Pipe	640-000-072	●	●
500	Flow Regulator (4 GPM) (Restrictor)	640-000-110	●	●



Item	Name	Part Number	Model	
			FS-80	FS-120
100	Heat Exchanger	640-000-008WT	●	—
		640-000-009	—	●
110	Flue Sensor Temperature	640-000-011	●	●
120	Blower Assembly	640-000-020WT	●	●
130	Blower Gasket	640-000-021	●	●
140	Ignitor	640-000-109WT	●	●
150	Central Heat Exchanger Insulation	640-000-010	●	●
160	Burner	640-000-012WT	●	●
170	Burner Gasket Set	640-000-013	●	●
180	Burner Cover	640-000-016	●	●
190	Inspection Glass	640-000-015	●	●
200	Kit - Natural Gas Conversion	640-000-022WT	●	—
		640-000-023WT	—	●
210	Kit - Liquefied Petroleum (Propane) Gas Conversion	640-000-024WT	●	—
		640-000-025WT	—	●
220	Gas Valve VK8205V	640-000-037WT	●	●
230	Water Pressure Switch	640-000-019	●	●
240	CH Temperature Probe DP	640-000-034	●	●
250	CH Temperature Probe US	640-000-035	●	●
260	Relief Valve 3/4"	640-000-038	●	●
270	NPT Adapters	640-000-039	●	●
280	Gasket Set	640-000-055	●	●
290	Condensate Drain Trap	640-000-073	●	●
300	Vent Adapters (2 adapters in kit)	640-000-107	●	●
310	Gaskets - Vent Adapter (2 gaskets in kit)	640-000-108	●	●
320	Wall Mount Bracket	640-000-044	●	●
330	Outdoor Temperature Sensor	640-000-043	●	●
340	CH - Flow Pipe	640-000-074	●	—
		640-000-075	—	●
350	CH - Return Pipe	640-000-076	●	●
360	Gas Pipe	640-000-072	●	●



Item	Name	Part Number
100	Heat Exchanger	640-000-080WT
110	Flue Sensor Temperature	640-000-011
120	Blower Assembly	640-000-081WT
130	Blower Gasket	640-000-021
140	Ignitor	640-000-109WT
150	Central Heat Exchanger Insulation	640-000-010
160	Burner	640-000-012WT
170	Burner Gasket Set	640-000-013
180	Burner Cover	640-000-016
190	Inspection Glass	640-000-015
200	Kit - Natural Gas Conversion	640-000-082WT
210	Kit - Liquefied Petroleum (Propane) Gas Conversion	640-000-083WT
220	Gas Valve VK8205V	640-000-037WT
230	Circulator UPS2578	640-000-086
240	Air Separator	640-000-087
250	Water Pressure Switch	640-000-019
260	DHW Inlet Pipe	640-000-098
270	Water Filter	640-000-027
280	Valve 3- Way	640-000-088WT
290	3-Way Valve-PHE Pipe	640-000-095
300	N/R Valve Fitting	640-000-030
310	Flow Meter	640-000-084
320	Plate Exchanger PFH30	640-000-089
330	CH Temperature Probe DP	640-000-034
340	CH Temperature Probe US	640-000-035
350	DHW Temperature Probe US	640-000-036
360	Relief Valve 3/4"	640-000-038
370	NPT Adapters	640-000-090
380	Gasket Set	640-000-101
390	Condensate Drain Trap	640-000-073
400	Vent Adapters (2 adapters in kit)	640-000-107
410	Gaskets - Vent Adapter (2 gaskets in kit)	640-000-108
420	Wall Mount Bracket	640-000-044
430	Outdoor Temperature Sensor	640-000-043
440	Heat Exchanger Flow Pipe	640-000-091
450	CH - Return Pipe	640-000-097
460	Bypass Pipe	640-000-093
470	Flow Meter PHE Pipe	640-000-099
480	DHW Outlet Pipe	640-000-096
490	Gas Pipe	640-000-100
500	Heat Exchanger Return pipe	640-000-092
510	CH Flow Pipe	640-000-094



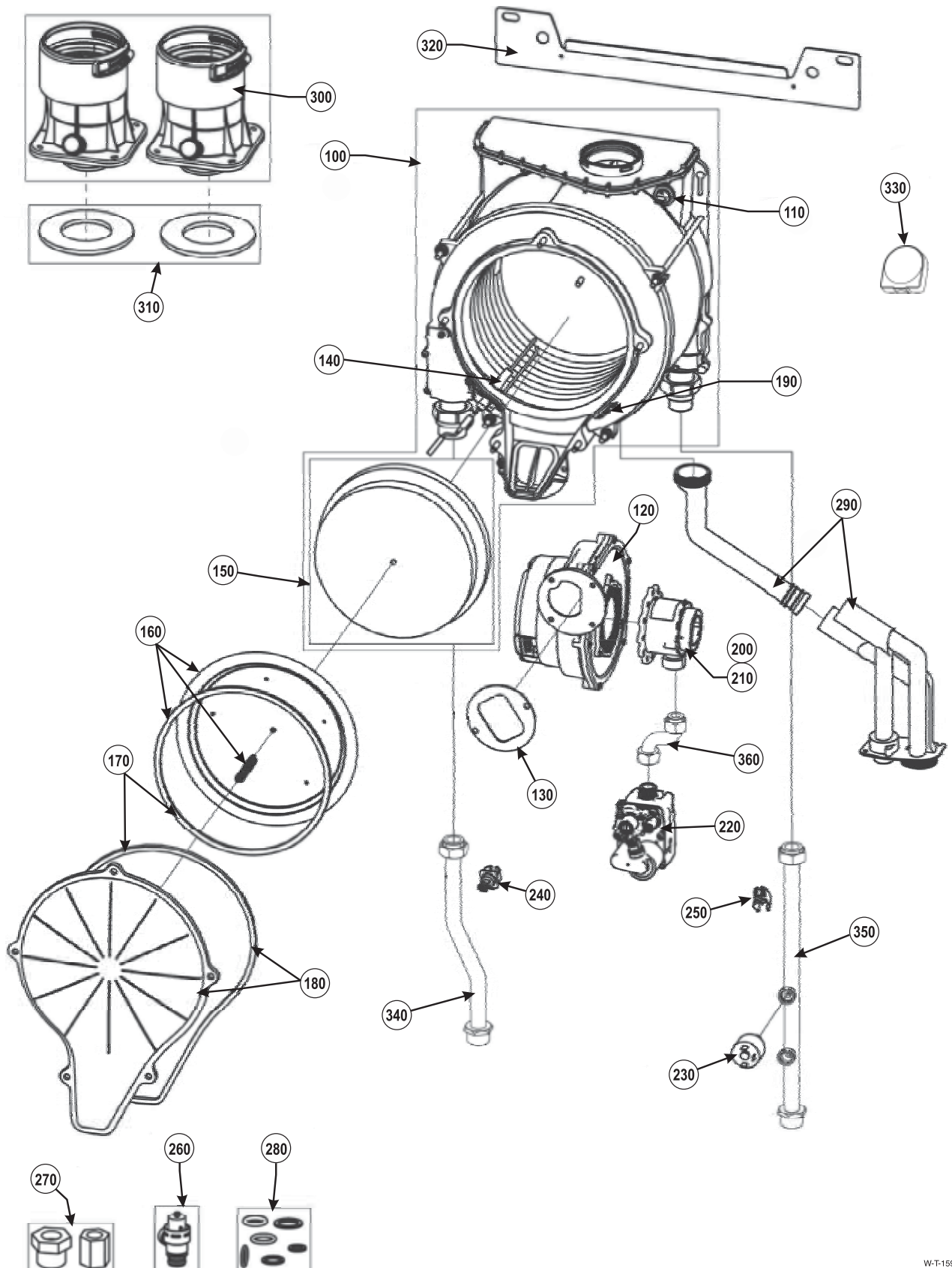
Item	Name	Part Number
100	Heat Exchanger	640-000-080WT
110	Flue Sensor Temperature	640-000-011
120	Blower Assembly	640-000-081WT
130	Blower Gasket	640-000-021
140	Ignitor	640-000-109WT
150	Central Heat Exchanger Insulation	640-000-010
160	Burner	640-000-012WT
170	Burner Gasket Set	640-000-013
180	Burner Cover	640-000-016
190	Inspection Glass	640-000-015
200	Kit - Natural Gas Conversion	640-000-082WT
210	Kit - Liquefied Petroleum (Propane) Gas Conversion	640-000-083WT
220	Gas Valve VK8205V	640-000-037WT
230	Water Pressure Switch	640-000-019
240	CH Temperature Probe DP	640-000-034
250	CH Temperature Probe US	640-000-035
260	Relief Valve 3/4"	640-000-038
270	NPT Adapters	640-000-104
280	Gasket Set	640-000-102
290	Condensate Drain Trap	640-000-073
300	Vent Adapters (2 adapters in kit)	640-000-107
310	Gaskets - Vent Adapter (2 gaskets in kit)	640-000-108
320	Wall Mount Bracket	640-000-044
330	Outdoor Temperature Sensor	640-000-043
340	CH - Flow Pipe	640-000-106
350	CH - Return Pipe	640-000-105
360	Gas Pipe	640-000-100

Model
FreeStyle®
Series 1
Gas-fired Water Boilers

Boiler replacement kits and parts

155 Heating Only

Part numbers for this model are shown on page 58.



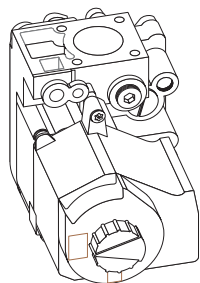
W-T-159

Model
GSA

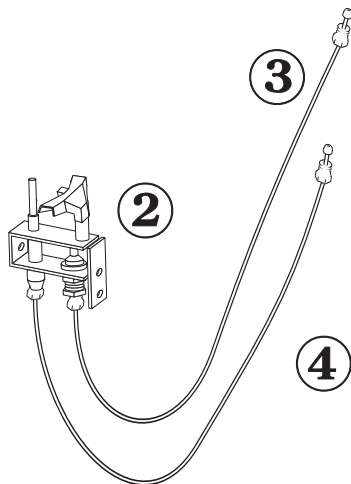
Gas-fired Steam Boilers — Standing pilot

Gas controls — standing pilot

Parts for this model are shown below.



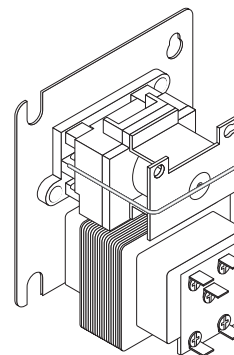
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Item number	Description	Manufacturer	Manufacturer's part number	Part number
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Standing pilot — Natural gas components

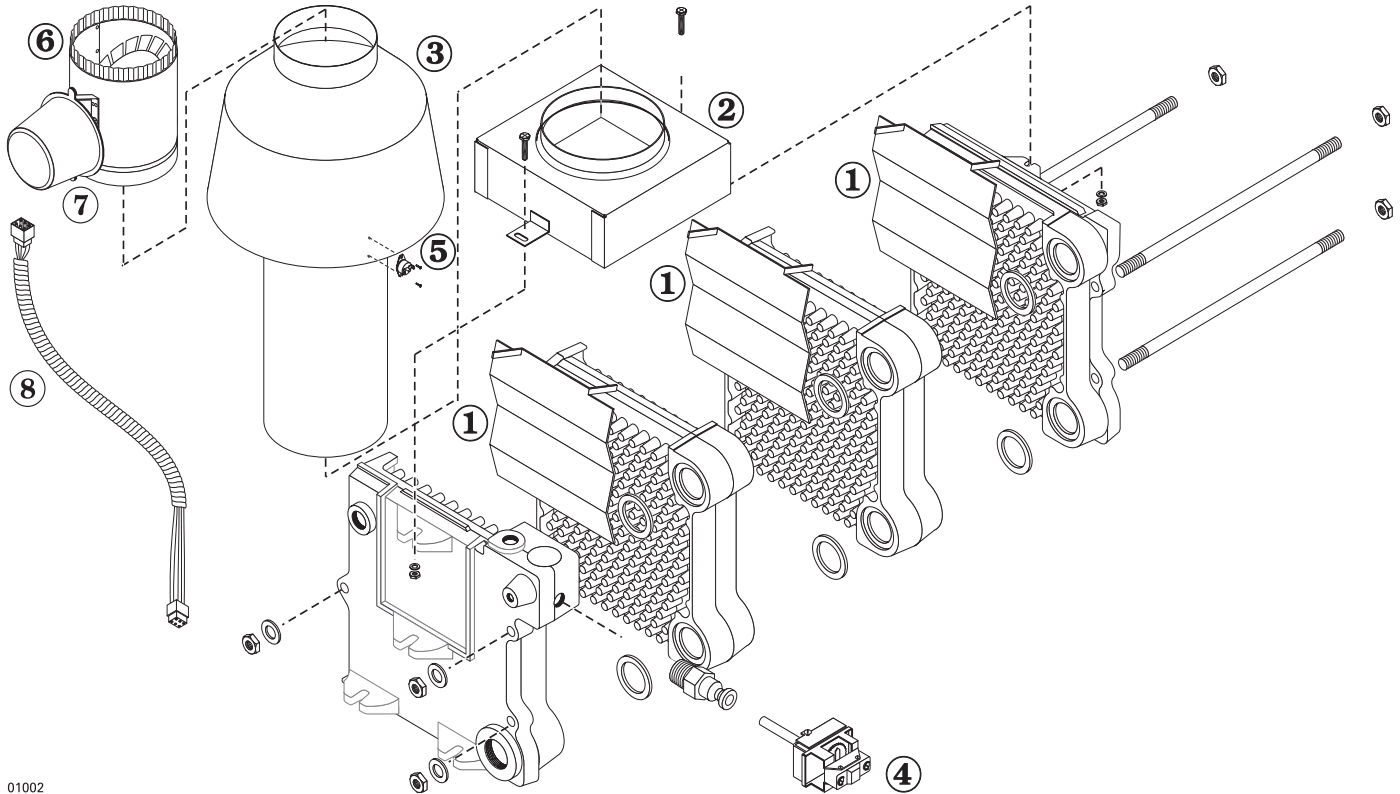
1	Gas valve, $\frac{1}{2}$ " x $\frac{1}{2}$ ", GSA-075 through GSA-175 Gas valve, $\frac{3}{4}$ " x $\frac{3}{4}$ ", GSA-200, GSA-250 Gas valve, $\frac{3}{4}$ " x 1", GSA-300	Honeywell Robertshaw Honeywell Robertshaw	VR8200A2116 7200ER VR8300C4050 7000	511-044-360WT 511-044-256WT 511-044-505WT
2	Pilot assembly kit with orifice			510-811-640WT
3	Tubing, pilot, aluminum with fittings			560-742-860WT
4	Tubing, thermocouple GSA-075 through GSA-250 Tubing, thermopile GSA-300			511-724-254WT 511-724-259WT

Standing pilot — Propane gas components

1	Gas valve, $\frac{1}{2}$ " x $\frac{1}{2}$ ", GSA-075 through GSA-175 Gas valve, $\frac{3}{4}$ " x $\frac{3}{4}$ ", GSA-200 and GSA-250	Honeywell Honeywell	VR8200A2280 VR83004068	511-044-258WT 511-044-257WT
2	Pilot assembly kit with orifice			510-811-642WT
3	Tubing, pilot, aluminum with fittings			560-742-865WT
4	Tubing, thermocouple			511-724-254WT

Standing pilot — Natural gas and propane gas components

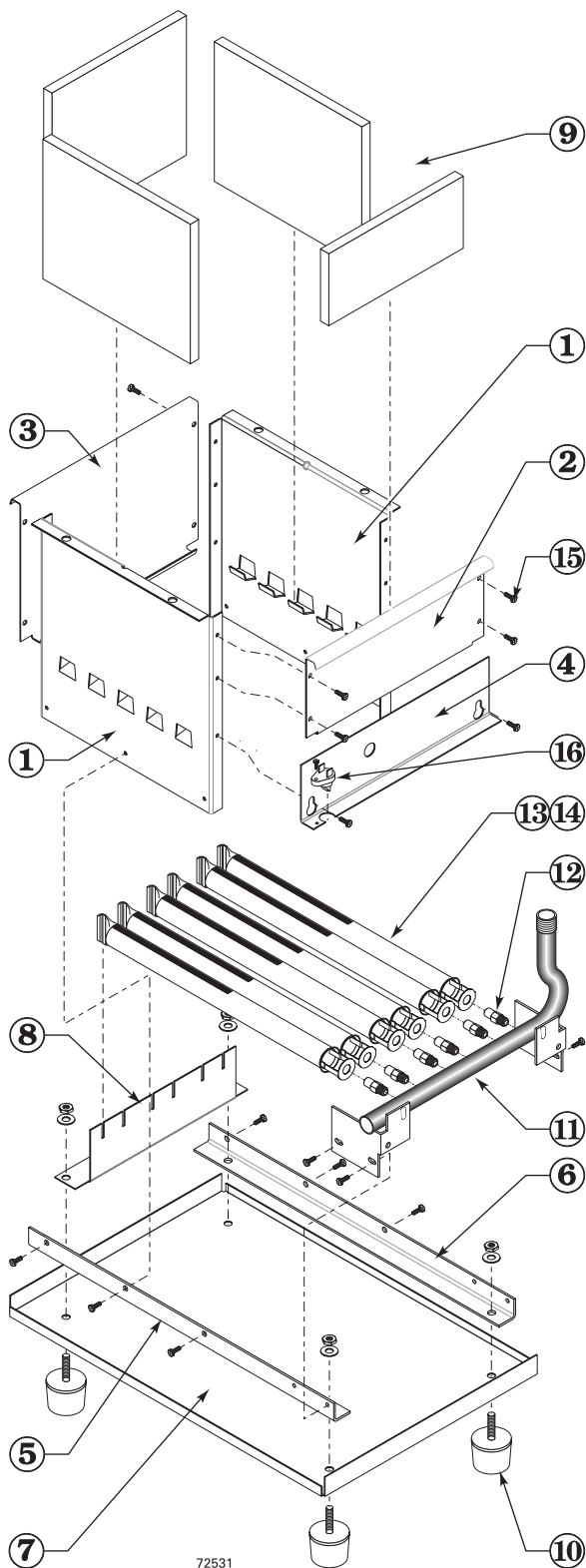
5	Transformer with receptacle	Honeywell White-Rodgers	R8285K1004 S84A-85	510-312-166WT
not shown not shown	Wiring harness Leadwire 5.00 Inch with terminals			591-391-867WT 590-850-561WT



01002

Item number	Description	Part number
not shown	Replacement section assembly	GWA-052 321-114-345WT GWA-070 321-114-345WT GWA-105 321-114-346WT GWA-140 321-114-347WT GWA-175 321-114-348WT GWA-210 321-114-349WT GWA-245 321-114-350WT
1	Radiation plate (1 per joint)	460-003-700WT
2	Collector hood	GWA-052 381-354-625WT GWA-070 381-354-626WT GWA-105 381-354-627WT GWA-140 381-354-628WT GWA-175 381-354-629WT GWA-210 381-354-630WT GWA-245 381-354-631WT
3	Draft hood	GWA-052 450-021-240WT GWA-070 450-021-241WT GWA-105 450-021-242WT GWA-140 450-021-243WT GWA-175 450-021-244WT GWA-210 450-021-245WT GWA-245 450-021-246WT

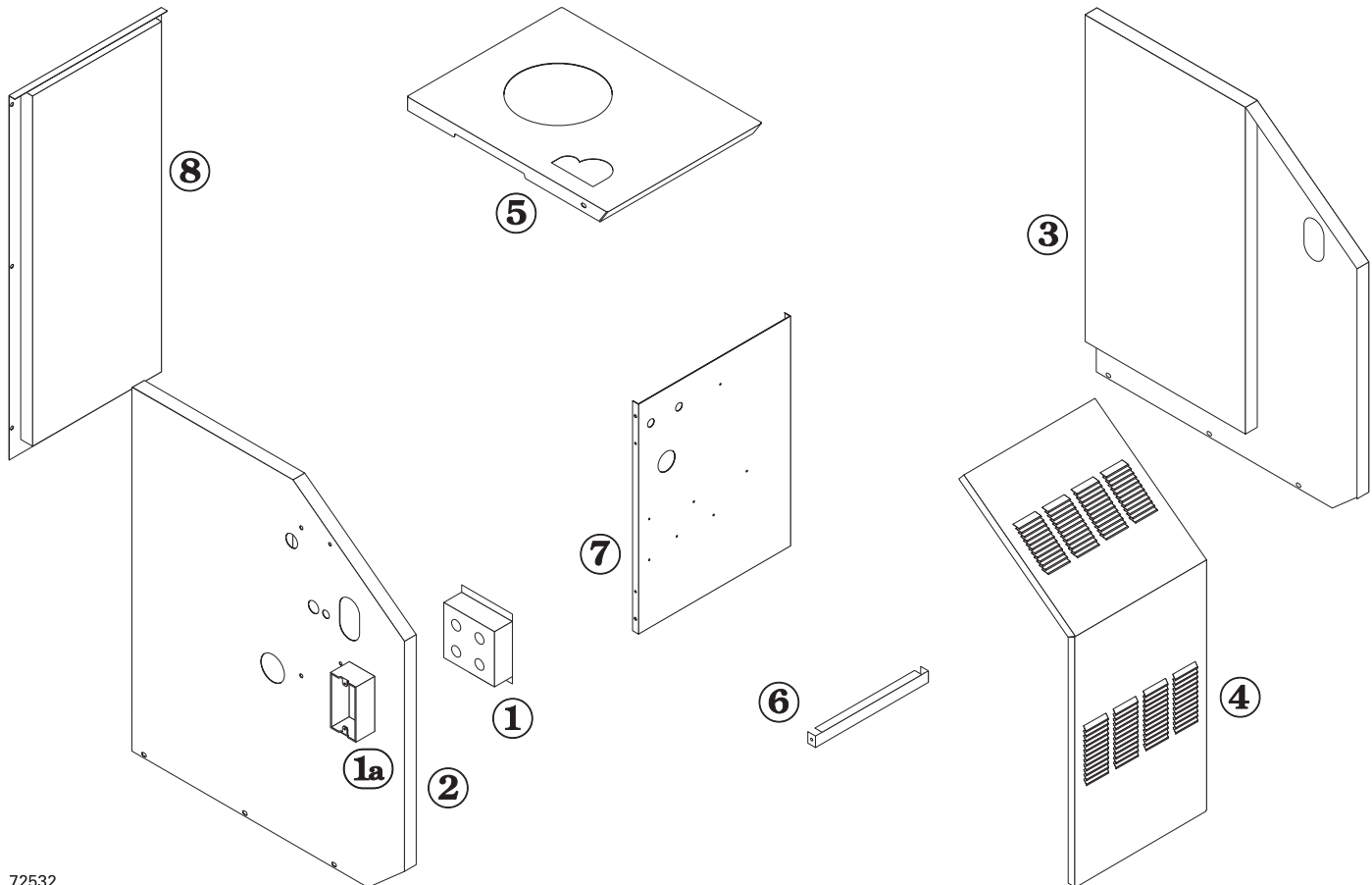
Item number	Description	Part number
4	High limit, 30° differential, with well	Honeywell L4080D1250/B White-Rodgers 11B81-3 510-312-250WT
5	Spill switch	510-300-014WT
6	Vent damper	4" GWA-052 Effikal RVGP-KS-4BKF GWA-070 * Johnson Controls Q35GB-2 Field Controls GVD-4 381-800-474WT
	5" GWA-105 Effikal RVGP-KS-5BKF * Johnson Controls Q35GD-2 Field Controls GVD-5 381-800-475WT	
	6" GWA-140 Effikal RVGP-KS-6BKF GWA-175 * Johnson Controls Q35GF-2 Field Controls GVD-6 381-800-476WT	
	7" GWA-210 Effikal RVGP-KS-7BKF GWA-245 * Johnson Controls Q35GH-2 Field Controls GVD-7 381-800-477WT	
	* Johnson Controls damper assemblies consists of M35BC actuator and Y15 vent pipe	
7	Vent damper actuator	Effikal RVGP 510-512-337WT
8	Vent damper harness	591-391-795WT



Item number	Description		Part number
	Base assembly kit	GWA-052 GWA-070 GWA-105 GWA-140 GWA-175 GWA-210 GWA-245	381-354-355WT 381-354-356WT 381-354-357WT 381-354-358WT 381-354-359WT 381-354-360WT 381-354-361WT
1	Base side panel (in Base assembly)		
2	Base front cross-tie assembly (in Base assembly)		
3	Base back cross-tie assembly (in Base assembly)		
4	Base access panel (in Base assembly)		
5	Base pan angle, left side (in Base assembly)		
6	Base pan angle, right side (in Base assembly)		
7	Base pan (in Base assembly)		
8	Burner rest (in Base assembly)		
9	Base insulation kit (includes insulation for all base parts above plus gasket material needed between block assembly and base)	GWA-052 to GWA-140 GWA-175 to GWA-245	381-354-518WT 381-354-519WT
10	Boiler leg kit		590-424-252WT
11	Manifold	GWA-052 GWA-070 GWA-105 GWA-140 GWA-175 GWA-210 GWA-245	591-126-615WT 591-126-616WT 591-126-617WT 591-126-618WT 591-126-619WT 591-126-556WT 591-126-557WT
12	Main burner orifice, sea level	Natural gas Propane gas	560-528-997WT 560-528-998WT
13	Burner, stainless steel		512-200-077WT
14	Burner with pilot bracket (not shown)	Standing pilot (natural)	512-200-079WT
		Standing pilot (propane) Spark-ignited pilot (nat.)	512-200-078WT
15	Screw, 10-32 x 3/4 STP Type D Hex, washer head slot ZP		available at local supply house
16	Rollout thermal fuse element		512-050-230WT



The boiler contains ceramic fiber and fiberglass materials. Use care when handling these materials per instructions on page 103 of this manual. Failure to comply could result in severe personal injury.

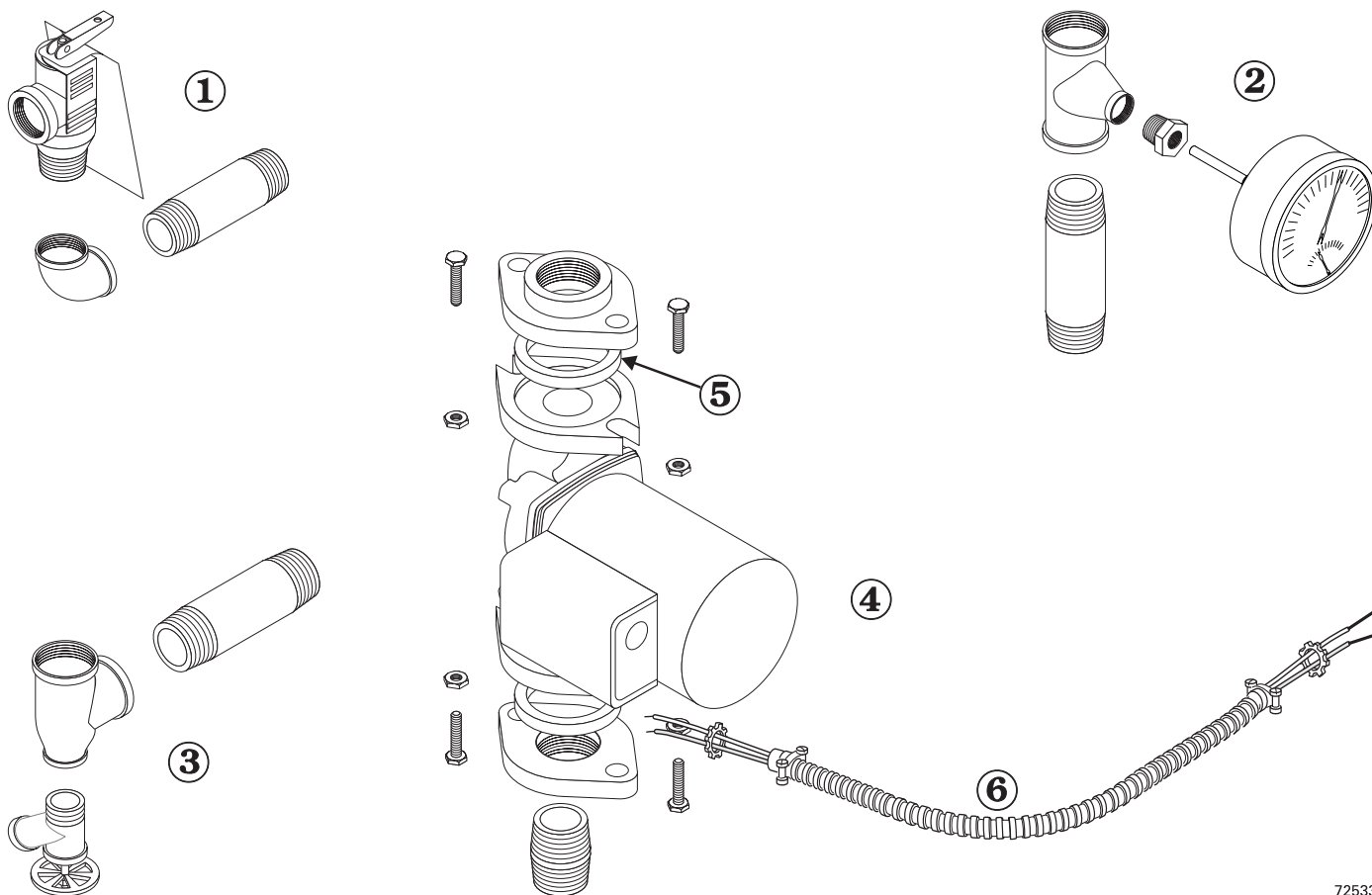


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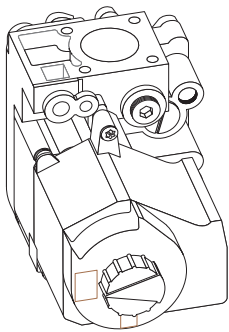
Use LP selections for boilers that have been converted to fire propane. Use the selection marked "Spk" for spark-ignited pilot boilers. Use the selection marked "Std" for boilers with standing pilots.

Item no.	Description	Fuel	Pilot	GWA-052	GWA-070	GWA-105	GWA-140	GWA-175	GWA-210	GWA-245
1	Junction box, 4 x 4	All	All	Available at local supply house						
1a	Junction box, 2 x 4	All	All	Available at local supply house						
2	Jacket panel, left side w/ insulation	Nat	Spk	431-223-425WT	431-223-456WT	431-223-458WT	431-223-460WT	431-223-426WT	431-223-464WT	431-223-466WT
			Std	431-223-468WT	431-223-426WT	431-223-473WT	431-223-476WT	431-223-479WT	431-223-482WT	431-223-485WT
		LP	Std	431-223-557WT	431-223-559WT	431-223-561WT	431-223-563WT	431-223-565WT	431-223-567WT	431-223-569WT
3	Jacket panel, right side w/ insulation	Nat	Spk	431-223-426WT	431-223-457WT	431-223-459WT	431-223-461WT	431-223-463WT	431-223-465WT	431-223-467WT
			Std	431-223-469WT	431-223-426WT	431-223-474WT	431-223-477WT	431-223-480WT	431-223-483WT	431-223-486WT
		LP	Std	431-223-558WT	431-223-560WT	431-223-562WT	431-223-564WT	431-223-566WT	431-223-568WT	431-223-570WT
4	Jacket door panel	All	Spk	431-223-450WT	431-223-450WT	431-223-451WT	431-223-452WT	431-223-453WT	431-223-454WT	431-223-455WT
		All	Std	431-223-470WT	431-223-470WT	431-223-475WT	431-223-478WT	431-223-481WT	431-223-484WT	431-223-487WT
5	Jacket top panel	All	All	431-223-025WT	431-223-025WT	431-223-026WT	431-223-027WT	431-223-028WT	431-223-029WT	431-223-030WT
6	Jacket cross tie	All	All	431-223-507WT	431-223-507WT	431-223-508WT	431-223-509WT	431-223-510WT	431-223-511WT	431-223-512WT
7	Jacket interior panel, with insulation	All	All	431-223-427WT	431-223-427WT	431-223-428WT	431-223-429WT	431-223-430WT	431-223-431WT	431-223-432WT
8	Jacket rear panel, with insulation	All	All	431-223-444WT	431-223-444WT	431-223-445WT	431-223-446WT	431-223-447WT	431-223-448WT	431-223-449WT

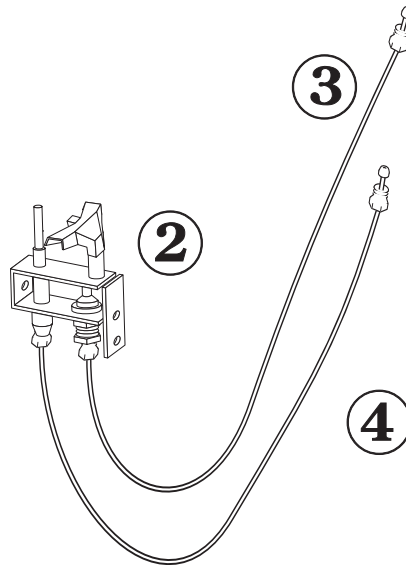


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Item number	Description	Manufacturer	Manufacturer's Part number	Part number
1	Pressure relief valve, ASME, 30 PSIG, 3/4" male inlet	Watts	M330	511-546-920WT
	Pressure relief valve, ASME, 30 PSIG, 3/4" female inlet (Fittings shown are factory-installed on boiler.)	Watts	335	511-546-924WT
2	Combination pressure-temperature gauge, with 2 1/2" short shank	Amekai	OS234JDTW003	510-218-099WT
3	Drain valve, 3/4" NPT, 1-1/2" Shank (Fittings shown are included with boiler.)			511-210-423WT
4	Circulator (Fittings shown are shipped loose with boiler.)	Taco	007	511-405-113WT
5	Circulator gasket, universal (2 per boiler)			590-317-535WT
not shown	Circulator hardware kit, includes: 2 flanges, 4 nuts, 4 bolts, 2 pipe nipples — 1" NPT — GWA-052 through GWA-140 1 1/4" NPT — GWA-175 through GWA-245			381-354-525WT 381-354-526WT
6	Circulator wiring harness			591-319-793WT



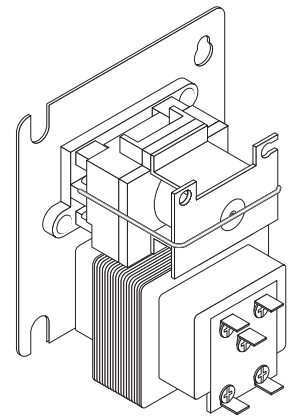
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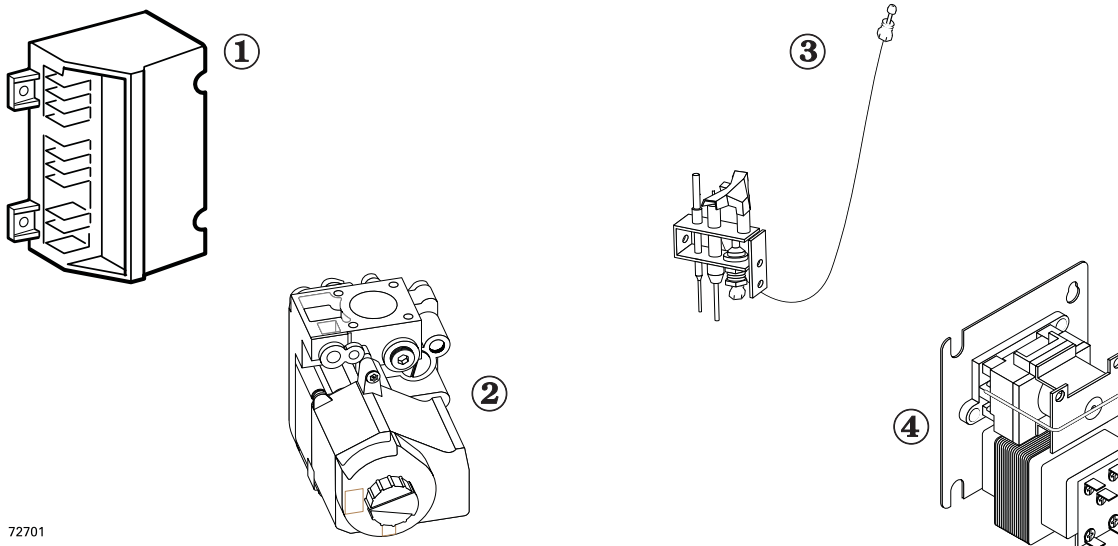
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72534

Item number	Description	Manufacturer	Manufacturer's Part number	Part number
Standing pilot – Natural gas components				
1	Gas valve, 1/2" x 1/2", GWA-052 through GWA-175 Gas valve, 3/4" x 3/4", GWA-210 through GWA-245	Honeywell Robertshaw Honeywell	VR8200A2116 7200ER VR8300C4050	511-044-360WT 511-044-256WT
2	Pilot assembly kit with orifice			510-811-644WT
3	Tubing, pilot, aluminum			560-742-860WT
4	Tubing, thermocouple			511-724-254WT
Standing pilot – Liquefied Petroleum (Propane) Gas components				
1	Gas valve, 1/2" x 1/2", GWA-052 through GWA-175 Gas valve, 3/4" x 3/4", GWA-210 through GWA-245	Honeywell Honeywell	VR8200A1074 VR8300C4100	511-044-258WT 511-044-257WT
2	Pilot assembly kit with orifice			510-811-646WT
3	Tubing, pilot, aluminum			560-742-860WT
4	Tubing, thermocouple			511-724-253WT
Standing pilot – Natural gas and Liquefied Petroleum (Propane) Gas components				
5	Transformer relay			510-312-167WT
not shown	Wiring harness			591-391-862WT



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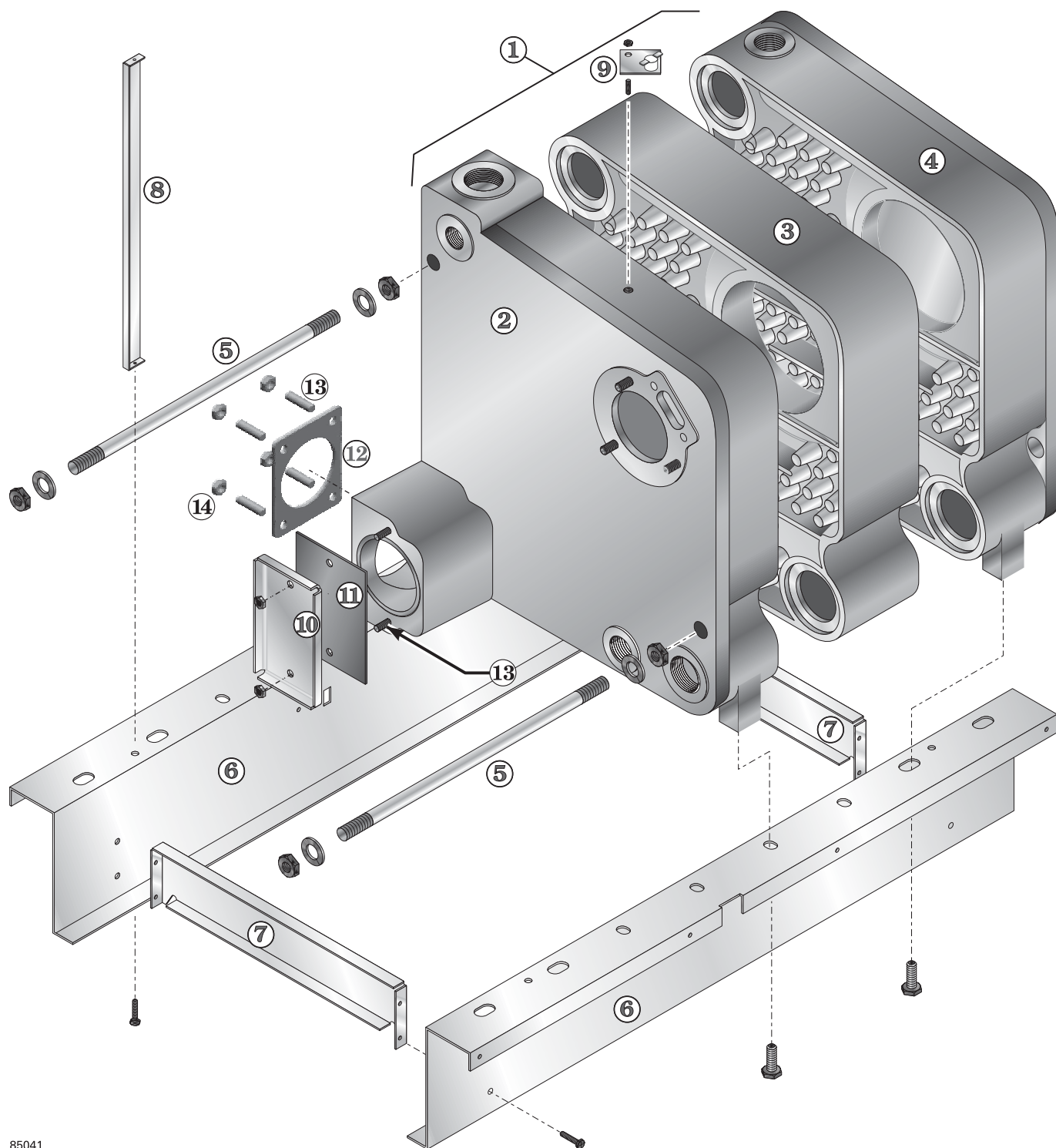
Item number	Part description	Boiler models	Vendor	Vendor part number	Williamson-Thermoflo part number
1	Ignition Control	GWA-052 to GWA-245	Honeywell	S8620C1003	511-330-097WT
			United Technologies	1003-511	
2	Gas valve, ½" x ½", Natural gas	GWA-052 to GWA-175	Honeywell	VR8204A-2001	511-044-381WT
			Robertshaw	7200ER 7A0-A1B-042	
			White-Rodgers	36E36-266	
	Gas valve, ¾" x ¾", Natural gas	GWA-210 and -245	Honeywell	VR8304P-4348	511-044-382WT
3	Pilot assembly kit with orifice and aluminum pilot gas tubing	GWA-052 to GWA-245	Williamson-Thermoflo		511-330-218WT
not shown	Boiler wiring harness	GWA-052 to GWA-245	Williamson-Thermoflo		591-391-863WT
4	Transformer relay	GWA-052 to GWA-245			510-312-167WT

Description	Model	Williamson-Thermoflo part number
Vent termination plate for 3" AL29-4C or 3" PVC pipes (plate includes knockouts to provide larger holes needed for PVC)	All	452-100-163WT
Vent Termination Bird Screen 3" PVC (1 pc)	All	383-500-105WT
Termination bag assembly (includes two 2-hole sidewall termination plates and two bird screens, mounting screws and plastic anchors)	All	542-200-314WT
3" PVC Concentric Vent Kit	All	383-500-350WT
Adapter 3-inch AL29-4C Vent Starter, FasNSeal	All	560-907-717WT
Adapter 3-inch AL29-4C Vent Starter, Z-Vent	All	560-907-723WT
Adapter 3-inch AL29-4C Vent Starter, Saf-T-Vent	All	560-907-724WT
Adapter 3-inch AL29-4C Vent Starter, CORR/GUARD	All	Contact Williamson-Thermoflo
Chemicals: Antifreeze, aluminum-safe, Sentinel X500 Corrosion inhibitor, Sentinel X100 (one tube is shipped with boiler) Sentinel X100 Inhibitor Test Kit. (one kit is shipped with boiler) Cleaner, Sentinel X400.	All	592-900-004WT 592-900-002WT 592-900-005WT 592-900-003WT
Condensate neutralizer kit	All	383-500-631WT
Oil Lubricant 3 Oz Andersol 465	All	592-900-015WT

Section assembly

Parts for this model are shown on page 67 through page 77.

Item number	Description	Model	Williamson-Thermoflo part number
1	Block assembly, includes: Front section, intermediate section, back section, square cut seals — 2", silicone sealant, tie rods, tie rod nuts, tie rod washers, blower flange gasket, igniter, igniter gasket, screws, lock washers, studs, nuts	070 105 140 175	322-200-304WT 322-200-305WT 322-200-306WT 322-200-307WT
2	Front section replacement kit, includes front section, square cut seals (4), silicone sealant, blower flange gasket, igniter gasket, studs (13), nuts (13)	All	382-200-713WT
3	Intermediate section (also required Section replacement kit)	All	312-200-110WT
4	Back section (also required Section replacement kit)	All	312-200-130WT
Not shown	Section replacement kit	All	382-200-305WT
5	Tie rods	070 105 140 175	560-234-499WT 560-234-525WT 560-234-503WT 560-234-504WT
6	Base rail legs — (2) per boiler	070 and 105 140 and 175	452-100-173WT 452-100-174WT
7	Base rail brace — (2) per boiler	All	452-100-080WT
8	Blower housing support	All	452-100-111WT
9	Block temperature limit switch	All	382-200-375WT
10	Inspection port cover	All	In Insp. port kit
11	Inspection port gasket	All	590-317-628WT
—	Inspection port kit (includes cover and gasket)	All	542-200-181WT
12	Recuperator connection gasket	All	590-317-629WT
13	Stud, 5/16" — 18 x 1 1/4"	All	560-340-581WT
14	Hex nuts (4 each), 5/16" / lock washers (4 each), 5/16"	All	Obtain locally



85041

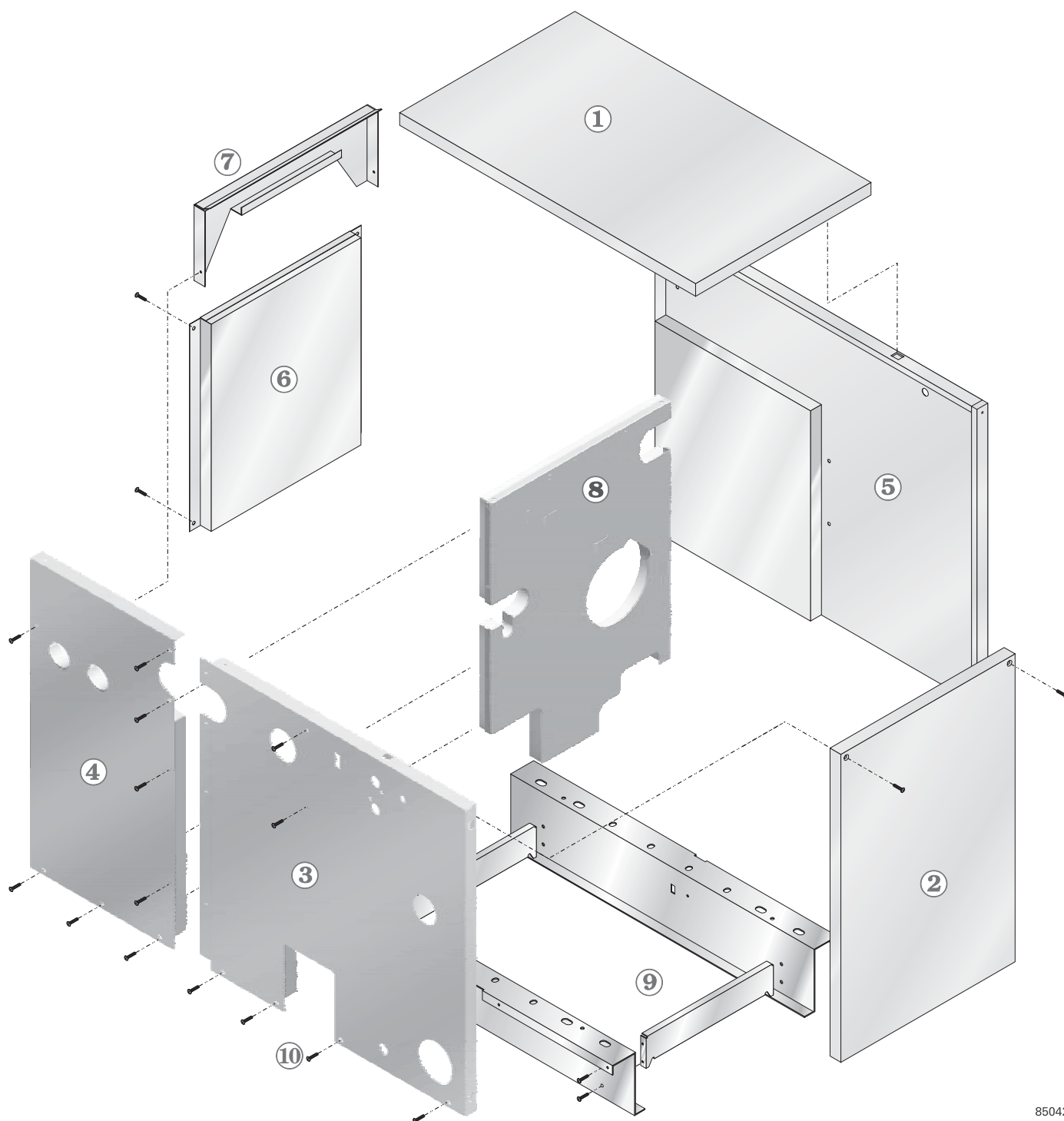
Jacket assembly

Parts for this model are shown on page 67 through page 77.

Item number	Description	Model	Williamson-Thermoflo part number
1	Jacket panel, top	070 and 105 140 and 175	382-200-700WT 382-200-701WT
2	Jacket panel, front	All	382-200-702WT
3	Jacket panel, left side, front	070 and 105 140 and 175	382-200-703WT 382-200-704WT
4	Jacket panel, left side, rear	070 and 105 140 and 175	382-200-705WT 382-200-706WT
5	Jacket panel, right side	070 and 105 140 and 175	382-200-724WT 382-200-725WT
6	Jacket panel, rear	All	382-200-726WT
7	Jacket brace	All	422-200-179WT
8	Jacket panel, interior	All	382-200-727WT
9	Base rail assembly	All	see GWC Section assembly, items 6 and 7
10	Screw, sheet metal type AB, serrated hex washer head Phillips #10 x 3/8" steel black phosphate	All	—

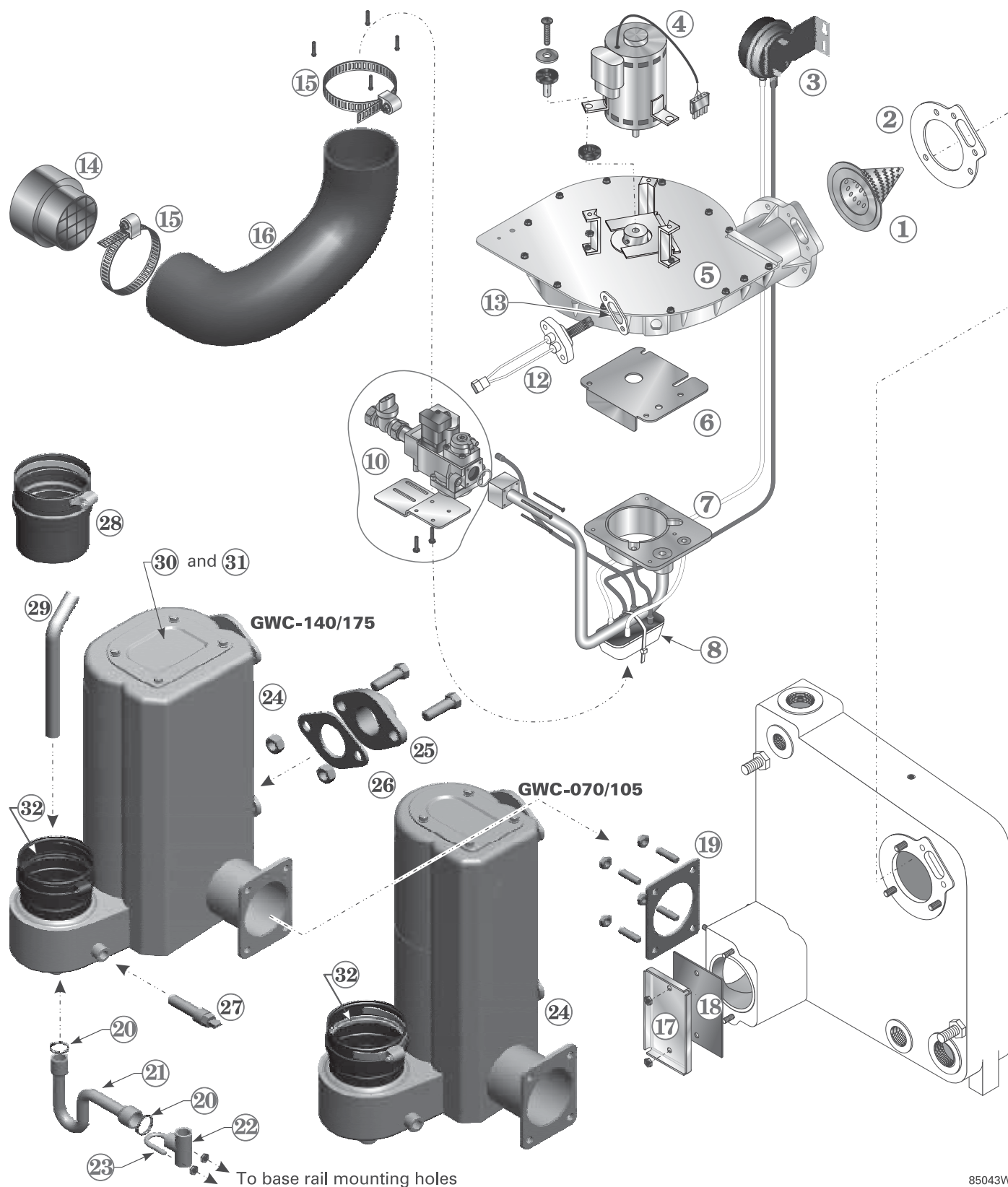


The boiler contains ceramic fiber and fiberglass materials. Use care when handling these materials per instructions on page 103 of this manual. Failure to comply could result in severe personal injury.



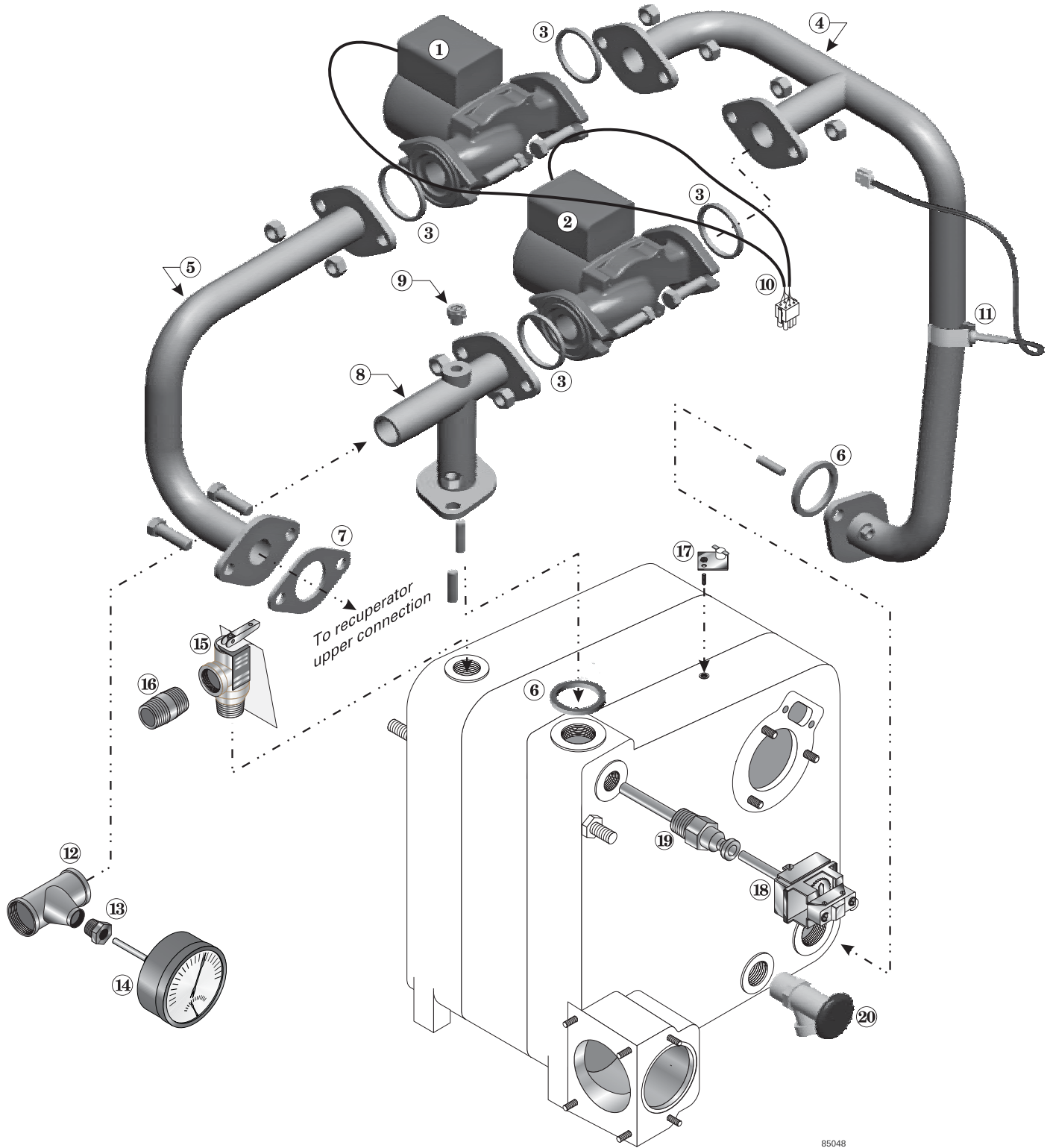
85042

Item number	Description	Model	Williamson-Thermoflo part number
1	Burner replacement kit, includes burner, blower flange gasket, igniter, igniter screws, igniter washers, igniter gasket	070 105 140 175	382-200-320WT 382-200-325WT 382-200-330WT 382-200-335WT
2	Blower flange gasket	All	590-317-610WT
3	Air pressure switch (0 to 5,500 feet elevation)	All	382-200-723WT
—	Air pressure switch (5,500 to 10,000 feet elevation)	All	Consult W-T factory
4	Blower motor replacement kit, includes blower motor, motor mounting grommets, screws, lock nuts and 9" Allen wrench	All	382-200-345WT
5	Blower housing assembly replacement kit, includes: blower housing, obsv. port, blower housing cover plate, blower motor mounting brackets, washer hold down bracket, lock nuts, motor mount grommets, blower motor, blower wheel, magnetic washer, silicone sealant, screws, blower flange gasket, igniter, igniter washers, igniter screws, igniter gasket	All	382-200-340WT
6	Conversion kit, natural to propane , includes Propane orifice plate, label	070 105 140 175	510-811-926WT 510-811-927WT 510-811-928WT 510-811-929WT
	Orifice plate, natural gas	070 105 140 175	510-811-934WT 510-811-935WT 510-811-936WT 510-811-937WT
7	Gas/air manifold assembly, includes gas/air manifold, gas tubing, washers, screws, gas valve o-ring	All	382-200-362WT
8	Sense line condensate trap, includes sense line condensate trap and hoses	All	382-200-409WT
10	Gas valve kit, complete, includes gas valve, gas cock, 1/2" nipple, bracket, o-ring, screws	All	382-200-411WT
12	Igniter replacement kit, includes igniter and gasket	All	511-330-148WT
13	Igniter gasket	All	590-317-599WT
14	Inlet air tube w/grill	All	382-200-310WT
15	Hose clamp, 3"	All	591-850-068WT
16	Inlet air hose, 3" by 19" long	All	562-302-573WT
17 & 18	Inspection port cover and Inspection port gasket	All	see GWC Section assembly, items 10 and 11
19	Recuperator connection gasket	All	see item 24
20	Condensate drain hose clamp	All	—
21	Condensate trap	All	560-907-716WT
22	½" PVC condensate tee	All	—
23	Condensate tee U-clamp	All	—
24	Recuperator kit, includes recuperator, recuperator connection gasket, diamond flange gasket (2), connection hardware (4-nuts), flue gas thermal fuse	070 and 105 140 and 175	382-200-714WT 382-200-715WT
25	Diamond flange, 1" npt	All	see item 24
26	Diamond flange gasket	All	590-317-535WT
27	Flue gas thermal fuse	All	511-724-295WT
28	In-line flue adapter with drain kit, includes in-line flue adapter with drain and drain hose (6 inches)	All	382-200-716WT
29	Flue drain hose kit, 6 inches	All	382-200-717WT
30	Recuperator cover plate	070 and 105 140 and 175	593-000-002WT 593-000-003WT
31	Recuperator cover plate gasket	070 and 105 140 and 175	593-000-004WT 593-000-005WT
32	Recuperator vent pipe seal	All	593-000-006WT



85043W

Item number	Description	Williamson-Thermoflo part number
1	System circulator, Taco 007	511-405-113WT
2	Bypass circulator, Taco 007	511-405-113WT
3	Circulator gasket, Taco 110-339	590-317-543WT
4	Manifold, casting/circulator kit, includes water manifold, circulator gasket (Taco 110-339) (2), square cut seal (manifold to casting)	382-200-720WT
5	Return manifold, recuperator/circulator kit, includes water manifold, circulator gasket (Taco 110-339) (1), diamond gasket	382-200-721WT
6	Square cut seal gaskets, casting, 2.31"	572-800-011WT
7	Diamond flange gasket	590-317-535WT
8	Supply manifold kit, includes water manifold, circulator gasket (Taco 110-339) (1), square cut seal (manifold to casting)	382-200-722WT
9	Coin-operated air vent, 1/8" NPT	570-148-565WT
10	Wiring harness, circulators to IBC	591-391-824WT
11	Return water temperature sensor and clip	511-330-089WT
12	Tee, 1" x 1" x 3/4"	Obtain locally
13	Bushing 3/4" x 1/4"	Obtain locally
14	Temperature and Pressure Gauge, 1/4" NPT	510-218-099WT
15	30 PSIG Relief Valve	511-546-920WT
16	Nipple, NPT — 3/4" x 3"	Obtain locally
17	Block temperature limit switch	382-200-375WT
18	Limit control without well, 200 °F maximum setpoint	382-200-719WT
19	Limit control well, 1/2" NPT	592-300-017WT
20	Drain valve, 3/4" NPT	511-246-392WT

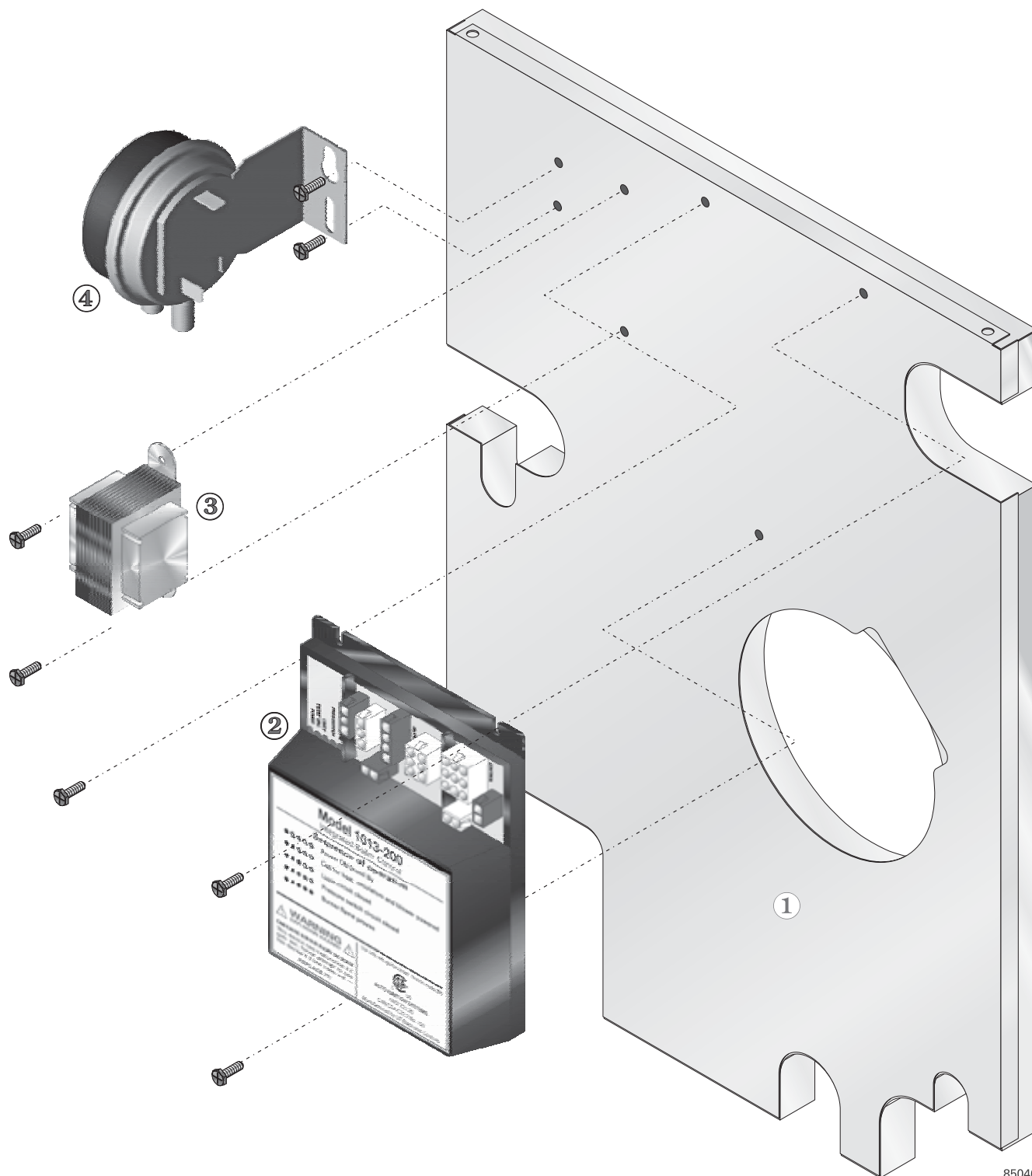


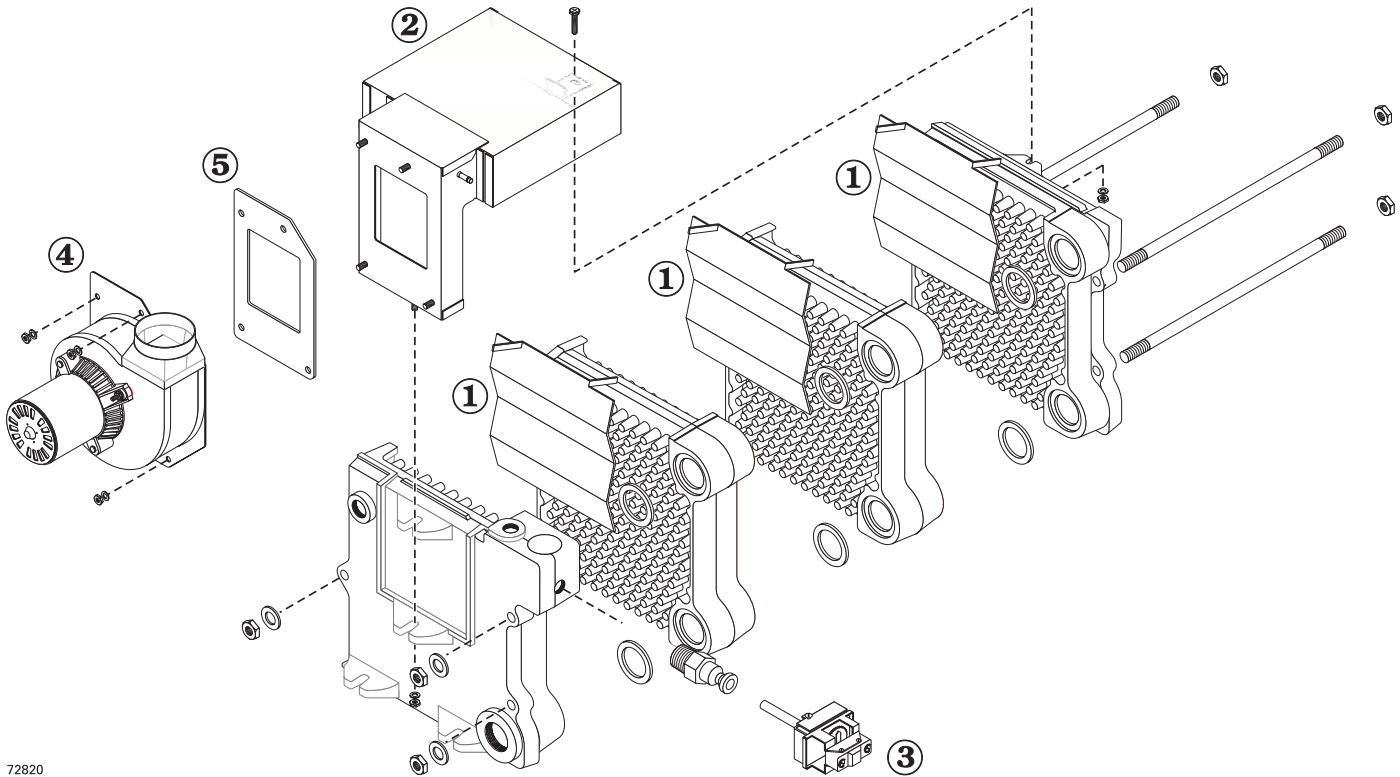
85048

Item number	Description	Williamson-Thermoflo part number
1	Interior panel	see GWC Jacket assembly, item 8
2	Integrated boiler control assembly, includes IBC and screws	382-200-448WT
3	Transformer	511-842-370WT
4	Air pressure switch	see GWC blower assembly, item 3
5	Wiring harness, IBC to junction box (not shown)	591-391-963WT
6	Wiring harness, IBC to hot surface ignitor (not shown)	591-391-819WT
7	Wiring harness, IBC to system and bypass circulators (not shown)	591-391-824WT
8	Wiring harness, IBC to controls (not shown)	591-391-964WT



The boiler contains ceramic fiber and fiberglass materials. Use care when handling these materials per instructions on page 103 of this manual. Failure to comply could result in severe personal injury.



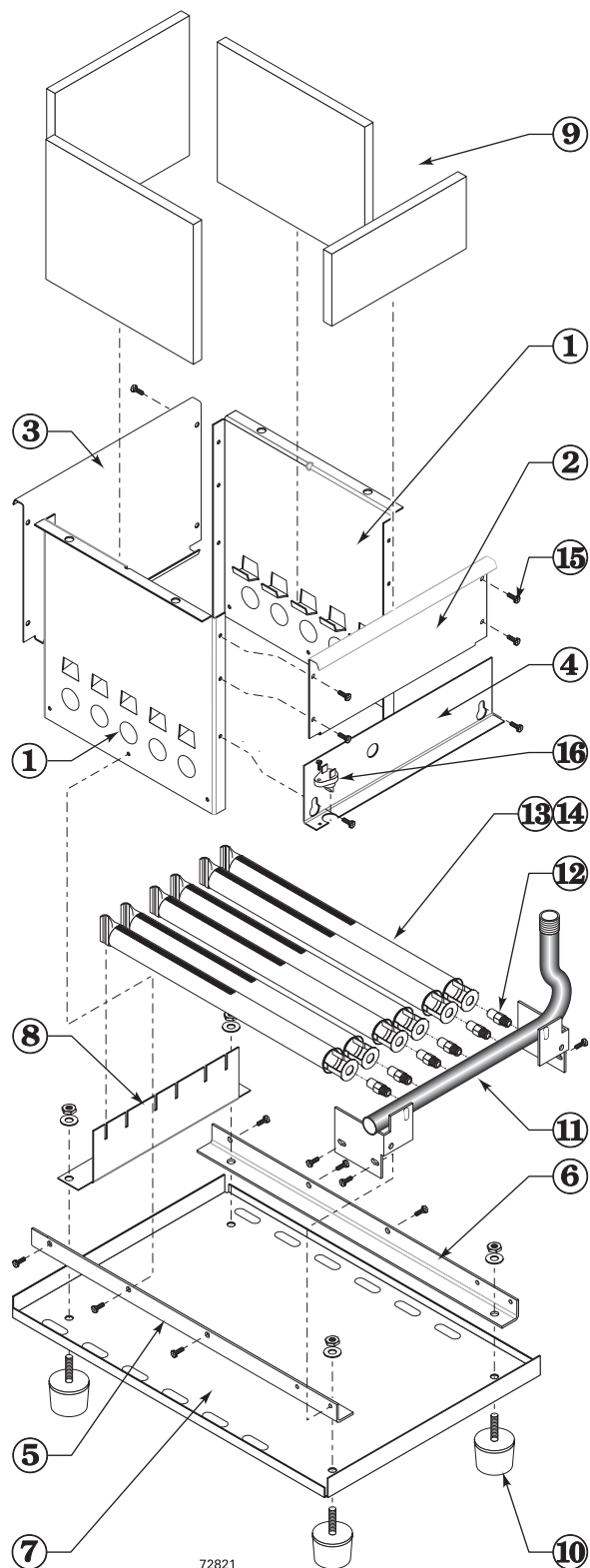


72820

Item number	Description		Part number
not shown	Replacement section assembly	GWI-047 & GWI-063 GWI-095 GWI-127 GWI-158 GWI-190	321-114-345WT 321-114-346WT 321-114-347WT 321-114-348WT 321-114-349WT
1	Radiation plate (1 per joint)		460-003-700WT
2	Collector hood and transition assembly	GWI-047 GWI-063 GWI-095 GWI-127 GWI-158 GWI-190	381-354-581WT 381-354-582WT 381-354-583WT 381-354-584WT 381-354-585WT 381-354-586WT
3	High limit, 30° differential, with well	Honeywell L4080D1036 White-Rodgers 11B81-3	510-312-254WT
4	Inducer fan assembly kit, includes inducer assembly, gasket and nuts:	GWI-047 to GWI-158 GWI-190	381-354-580WT 381-356-499WT
5	Gasket, inducer	GWI-047 to GWI-190	590-317-627WT



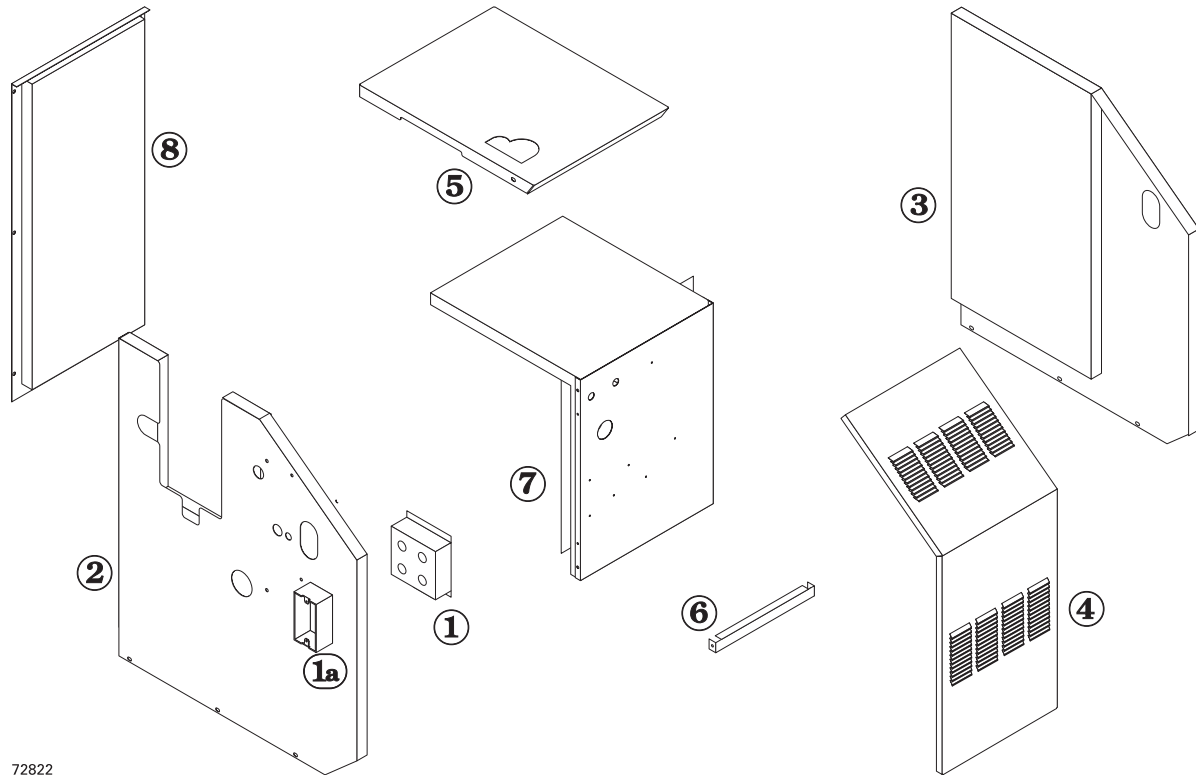
The boiler contains ceramic fiber and fiberglass materials. Use care when handling these materials per instructions on page 40 of this manual. Failure to comply could result in severe personal injury.



Item number	Description	Part number
	Base assembly kit (includes base panels items 1, 2, 3, 4, 5, 6, and 7, plus insulation, air box gaskets, and hardware)	GWI-047 & GWI-063 381-354-800WT GWI-095 381-354-801WT GWI-127 381-354-802WT GWI-158 381-354-803WT GWI-190 381-354-804WT
1	Base side panel (in Base assembly)	
2	Base front cross-tie assembly (in Base assembly)	
3	Base back cross-tie assembly (in Base assembly)	
4	Access panel (in Base assembly)	
5	Base pan angle, left side (in Base assembly)	
6	Base pan angle, right side (in Base assembly)	
7	Base pan (in Base assembly)	
8	Burner rest (in Base assembly)	
9	Base insulation kit (includes insulation for all base parts above plus gasket material needed between block assembly and base)	GWI-047 to GWA-127 381-354-518WT GWI-158 & GWI-190 381-354-519WT
10	Boiler leg kit	590-424-252WT
11	Manifold	GWI-047 591-126-615WT GWI-063 591-126-616WT GWI-095 591-126-617WT GWI-127 591-126-618WT GWI-158 591-126-619WT GWI-190 591-126-556WT
12	Main burner orifice, sea level	Natural gas 560-528-997WT Propane gas 560-528-998WT
13	Burner, stainless steel	512-200-077WT
14	Burner with pilot bracket (not shown)	Natural gas 512-200-078WT Propane gas 512-200-079WT
15	Screw, 10-32 x 3/8 STP type D hx, washer head slot ZP	available at local supply house
16	Rollout thermal fuse element	512-050-230WT



The boiler contains ceramic fiber and fiberglass materials. Use care when handling these materials per instructions on page 103 of this manual. Failure to comply could result in severe personal injury.



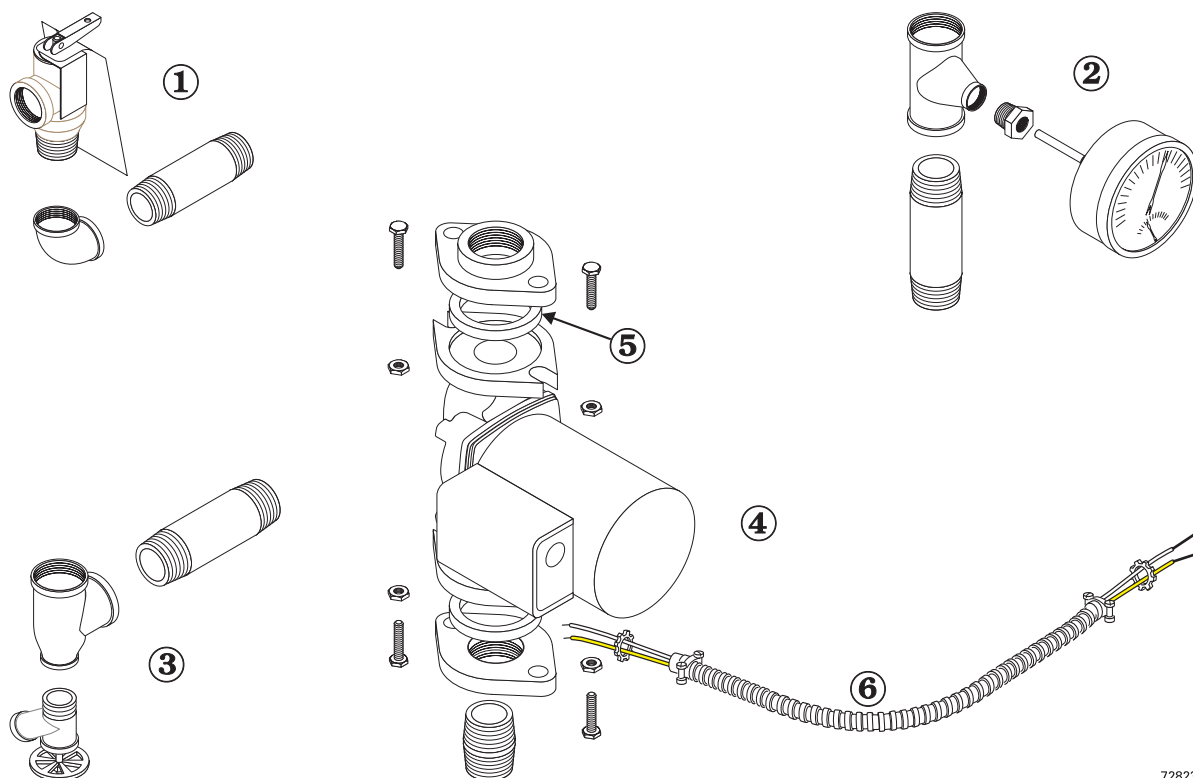
72822

Item number	Description		Part number
1 & 1a	Junction boxes, 4 x 4 and 2 x 4 (Available at local supply house)		
2	Jacket panel, left side, with insulation, NATURAL GAS	GWI-047 GWI-063 GWI-095 GWI-127 GWI-158 GWI-190	431-223-491WT 431-223-515WT 431-223-518WT 431-223-520WT 431-223-523WT 431-223-526WT
	Jacket panel, left side, with insulation, PROPANE	GWI-047 GWI-063 GWI-095 GWI-127 GWI-158 GWI-190	431-223-529WT 431-223-530WT 431-223-531WT 431-223-532WT 431-223-533WT 431-223-534WT
3	Jacket panel, right side	GWI-047 GWI-063 GWI-095 GWI-127 GWI-158 GWI-190	431-223-513WT 431-223-516WT 431-223-518WT 431-223-521WT 431-223-524WT 431-223-527WT
4	Jacket panel, door	GWI-047 GWI-063 GWI-095 GWI-127 GWI-158 GWI-190	431-223-514WT 431-223-514WT 431-223-519WT 431-223-522WT 431-223-525WT 431-223-528WT

Item number	Description		Part number
5	Jacket top panel	GWI-047 GWI-063 GWI-095 GWI-127 GWI-158 GWI-190	431-300-031WT 431-300-031WT 431-300-032WT 431-300-033WT 431-300-034WT 431-300-035WT
		GWI-047 GWI-063 GWI-095 GWI-127 GWI-158 GWI-190	431-223-507WT 431-223-507WT 431-223-508WT 431-223-509WT 431-223-510WT 431-223-511WT
6	Jacket cross tie	GWI-047 GWI-063 GWI-095 GWI-127 GWI-158 GWI-190	431-223-507WT 431-223-507WT 431-223-508WT 431-223-509WT 431-223-510WT 431-223-511WT
		GWI-047 GWI-063 GWI-095 GWI-127 GWI-158 GWI-190	431-223-507WT 431-223-507WT 431-223-508WT 431-223-509WT 431-223-510WT 431-223-511WT
7	Jacket panel, interior	GWI-047 GWI-063 GWI-095 GWI-127 GWI-158 GWI-190	431-223-427WT 431-223-427WT 431-223-428WT 431-223-429WT 431-223-430WT 431-223-431WT
		GWI-047 GWI-063 GWI-095 GWI-127 GWI-158 GWI-190	431-223-427WT 431-223-427WT 431-223-428WT 431-223-429WT 431-223-430WT 431-223-431WT
8	Jacket panel, rear	GWI-047 GWI-063 GWI-095 GWI-127 GWI-158 GWI-190	431-223-444WT 431-223-444WT 431-223-445WT 431-223-446WT 431-223-447WT 431-223-448WT
		GWI-047 GWI-063 GWI-095 GWI-127 GWI-158 GWI-190	431-223-444WT 431-223-444WT 431-223-445WT 431-223-446WT 431-223-447WT 431-223-448WT

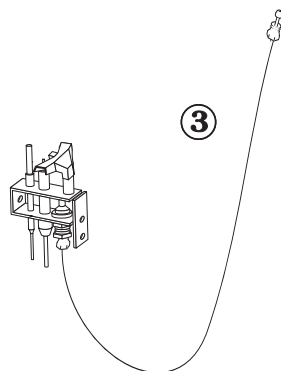
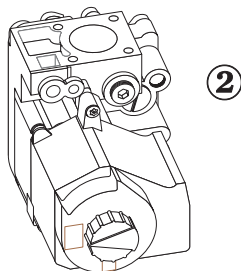
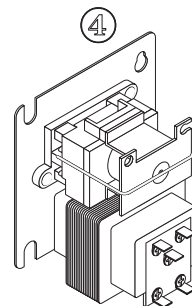
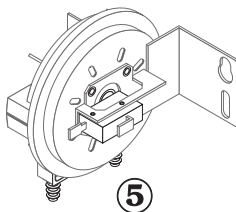
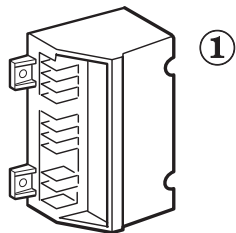
Trim assembly

Parts for this model are shown on page 78 through page 82.



72823

Item number	Description	Manufacturer	Manufacturer's part number	Part number
1	Pressure relief valve, ASME, 30 PSIG, ¼" male inlet	Conbraco Watts	10-407-10 M330	511-546-920WT
	Pressure relief valve, ASME, 30 PSIG, ¼" female inlet (Fittings shown are factory-installed on boiler.)	Conbraco Watts	10-408-05 335	511-546-924WT
2	Combination pressure-temperature gauge, with 2½" short shank	Ametek ENFM	PTA-1088 4104	510-218-099WT
3	Drain valve, ¾" (Fittings shown are included with boiler.)	Conbraco Hammond Valve Matco-Norca Watts	31-606-01 710 205F04 BD-2C	511-210-423WT
4	Circulator (Fittings shown are shipped loose with boiler.)	Taco	007	511-405-113WT
5	Circulator gasket, universal (2 per boiler)			590-317-535WT
not shown	Circulator hardware kit, includes: 2 flanges, 4 nuts, 4 screws, 2 pipe nipples — 1" NPT — GWI-047 through GWI-127 1½" NPT — GWI-158 through GWI-190			381-354-525WT 381-354-526WT
6	Circulator wiring harness			591-319-793WT

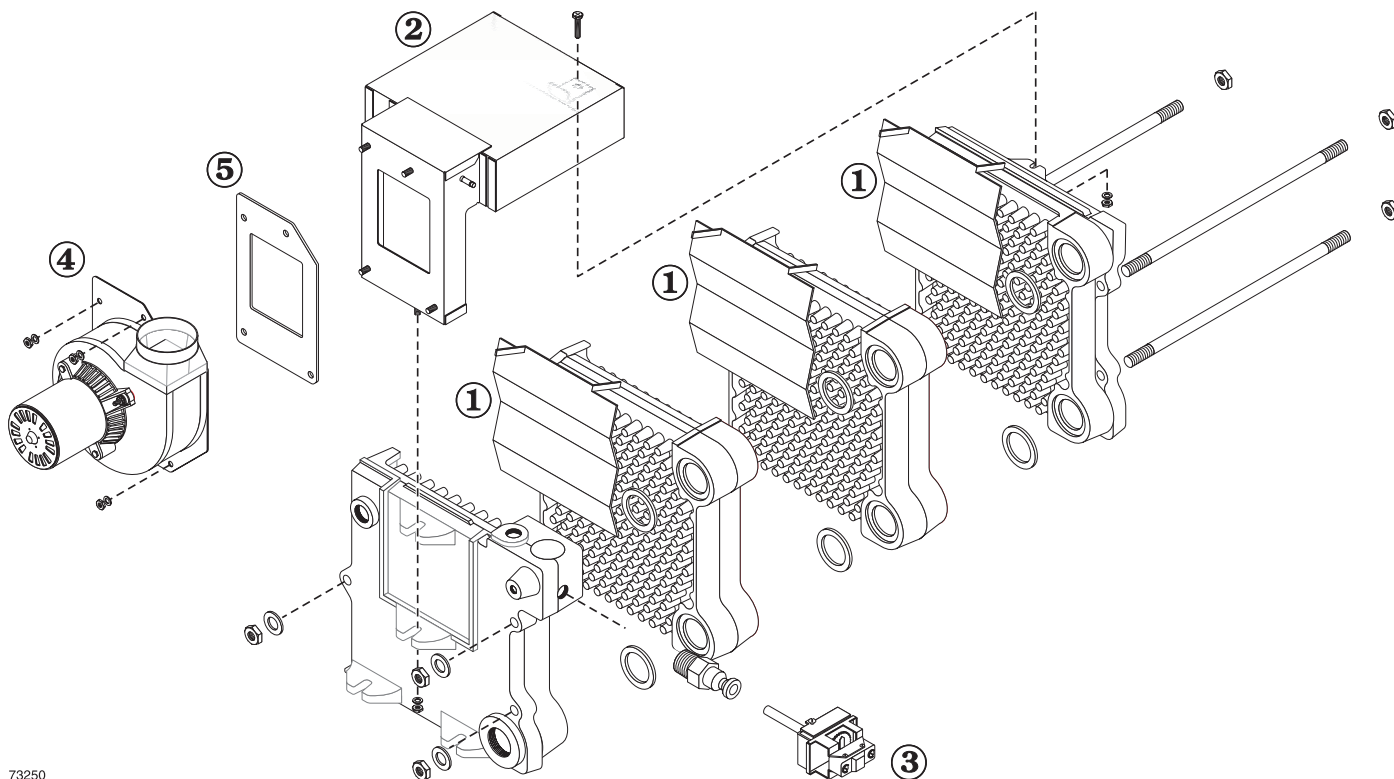


72824

Item number	Part description	Boiler model number	Vendor	Vendor part number	Part number
1	Ignition Control	All	United Technologies	1003-513 or 1003-613A	511-330-099WT
2 (Natural gas)	Gas valve, 1/2" x 1/2", Natural gas	GWI-047 to GWI-158	Honeywell White-Rodgers	VR8204A-2001 36E36-266	511-044-381WT
	Gas valve, 3/4" x 3/4", Natural gas	GWI-190	Honeywell White-Rodgers	VR8304P-4348 36C-478	511-044-353WT
2 (Propane gas)	Gas valve, 1/2" x 1/2", Propane	GWI-047 to GWI-158	Honeywell White-Rodgers	VR8204M-2701 36E36-291	511-044-354WT
	Gas valve, 3/4" x 3/4", Propane	GWI-190	Honeywell White-Rodgers	VR8304M-4010 36C68-479	511-044-355WT
3 (Natural gas)	Pilot assembly kit with orifice and aluminum pilot gas tubing	All			511-330-218WT
3 (Propane gas)	Pilot assembly kit with orifice and aluminum pilot gas tubing	All			511-330-219WT
not shown	Boiler wiring harness	All			591-319-795WT
4	Transformer/relay assembly Transformer only Relay only	All	Honeywell R825D100 or White-Rodgers 631-9001 Honeywell R8285K1004 or White-Rodgers S84A-85 Honeywell R8222U1006 or White-Rodgers 91-112006-11000		510-312-167WT
5	Pressure switch, 1.19 Inches W. C. Pressure switch, 1.08 Inches W. C. Pressure switch, 0.86 Inches W. C. Pressure switch, 0.61 Inches W. C. Pressure switch, 0.76 Inches W. C.	GWI-047 & GWI-063 GWI-095 GWI-127 GWI-158 GWI-190	Tri-Delta	PP510193-3120 PP510193-3121 PP510193-3122 PP510193-3123 PP510193-3124	511-624-350WT 511-624-351WT 511-624-352WT 511-624-353WT 511-624-354WT



WARNING The boiler contains ceramic fiber and fiberglass materials. Use care when handling these materials per instructions on page 21 of this manual. Failure to comply could result in severe personal injury.

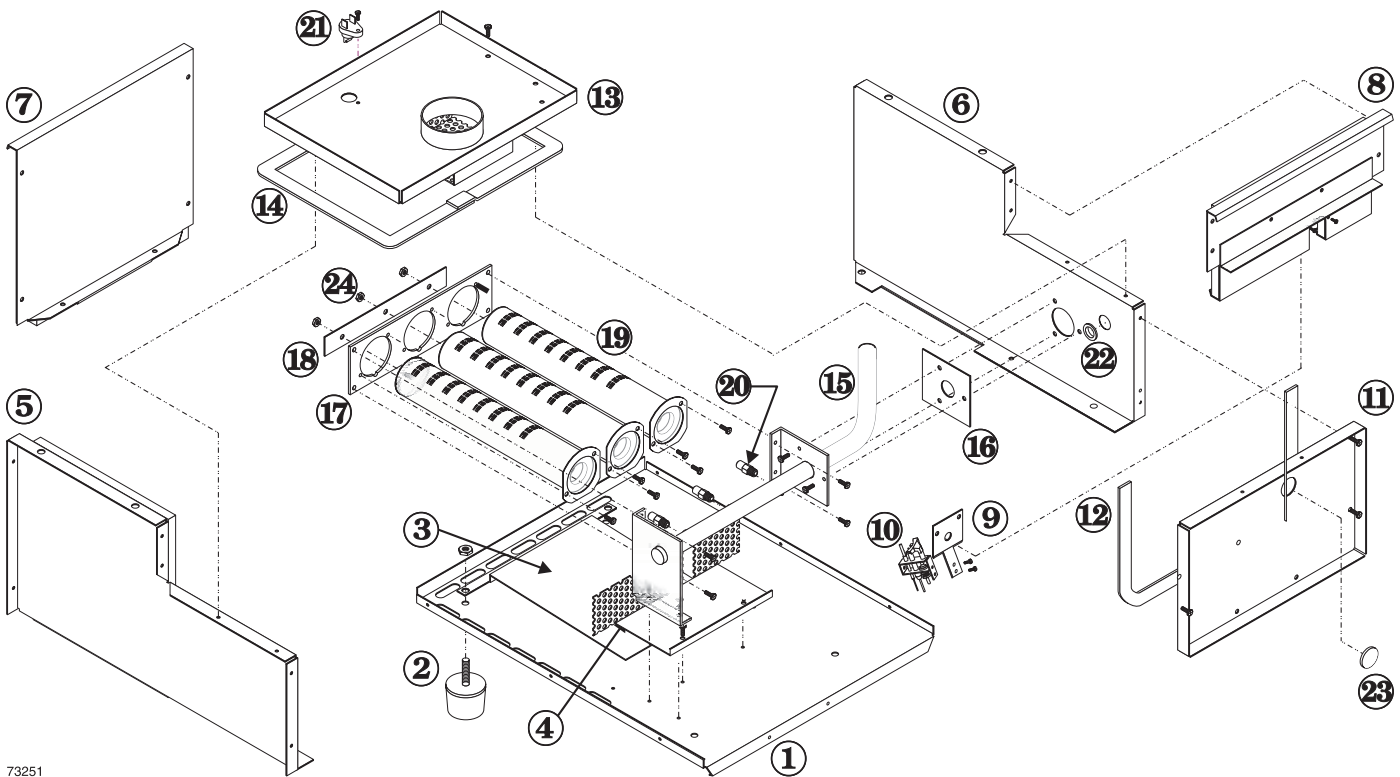


73250

Item number	Description		Part number
not shown	Replacement section assembly	GWS-063 GWS-095 GWS-127 GWS-158	321-114-345WT 321-114-346WT 321-114-347WT 321-114-348WT
1	Radiation plate (1 per joint)		460-003-700WT
2	Collector hood and transition assembly	GWS-063 GWS-095 GWS-127 GWS-158	381-354-590WT 381-354-591WT 381-354-592WT 381-354-593WT
3	High limit, 30° differential, with well	Honeywell L4080D1036 White-Rodgers 11B81-3	510-312-250WT
4	Inducer fan assembly kit, includes inducer fan assembly, gasket and nuts		381-356-499WT
5	Gasket, inducer		590-317-627WT



The boiler contains ceramic fiber and fiberglass materials. Use care when handling these materials per instructions on page 103 of this manual. Failure to comply could result in severe personal injury.



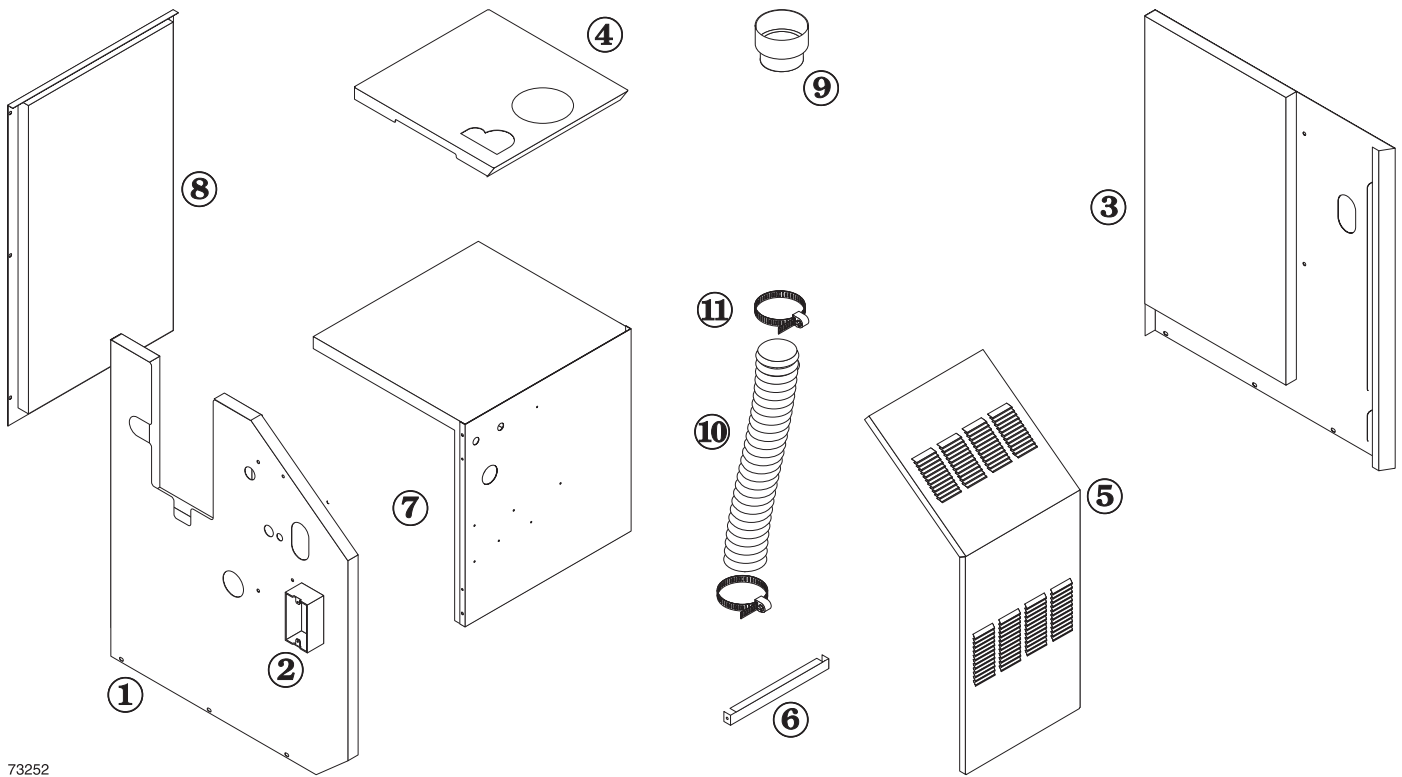
73251

Item	Description	Part number
Base insulation kit (includes insulation for all base parts shown above plus gasket material needed between block assembly and base)		
	GWS-063	381-356-570WT
	GWS-095	381-356-571WT
	GWS-127	381-356-572WT
	GWS-158	381-356-573WT
Base assembly kit (includes base panels items 1, 2, 3, 4, 5, 6, 7, 8, 11, 13, 22 and 23 plus insulation, Air box gaskets, and hardware)		
	GWS-063	381-356-560WT
	GWS-095	381-356-561WT
	GWS-127	381-356-562WT
	GWS-158	381-356-563WT
Inlet air box top panel kit (includes items 13 and 14)		
	GWS-063	381-356-501WT
	GWS-095	381-356-502WT
	GWS-127	381-356-503WT
	GWS-158	381-356-504WT
Inlet air box front panel kit (includes items 11, 12 and 23)		
	GWS-063	381-356-508WT
	GWS-095	381-356-509WT
	GWS-127	381-356-510WT
	GWS-158	381-356-511WT
1	Base pan (in Base assembly)	
2	Boiler leg kit	590-424-252WT
3	Heat shield (in Base assembly)	
4	Burner baffle (in Base assembly)	
5	Base left side panel (in Base assembly)	
6	Base right side panel (in Base assembly)	
7	Base back panel (in Base assembly)	
8	Base front cross-tie assembly (in Base assembly)	
9	Pilot bracket	450-003-689WT
10	Pilot burner assembly — Natural gas	511-330-080WT
	Pilot burner assembly — Propane gas	511-330-081WT
11	Inlet air box front panel (in Inlet air box front panel kit)	

Item	Description	Part number
12	Inlet air box front panel gasket (use Gasket kit)	
13	Inlet air box top panel (in Inlet air box top panel kit)	
14	Inlet air box top panel gasket (use Gasket kit)	
15	Manifold (per size)	GWS-063 591-126-722WT GWS-095 591-126-723WT GWS-127 591-126-724WT GWS-158 591-126-725WT
16	Manifold mounting gasket	590-317-406WT
17	Burner mounting panel	GWS-063 450-003-690WT GWS-095 450-003-691WT GWS-127 450-003-692WT GWS-158 450-003-693WT
18	Rear spacer strip	GWS-063 550-320-160WT GWS-095 550-320-161WT GWS-127 550-320-162WT GWS-158 550-320-163WT
19	Burner GWS-063 — qty: 2, GWS-095 — qty: 3, GWS-127 — qty: 4, GWS-158 — qty: 5	512-200-076WT
20	Burner orifice — Natural gas, sea level Burner orifice — Propane gas, sea level	560-529-077WT 560-529-078WT
21	Thermal fuse element	512-050-230WT
22	Grommet for sealing pilot tubing/wiring opening to Air box	591-850-064WT
23	Inspection port clear plug	591-491-216WT
24	Hex nut for burner end stud, 5 mm	550-320-170WT
	Gasket (for Air inlet box covers), 8-foot length	590-317-400WT



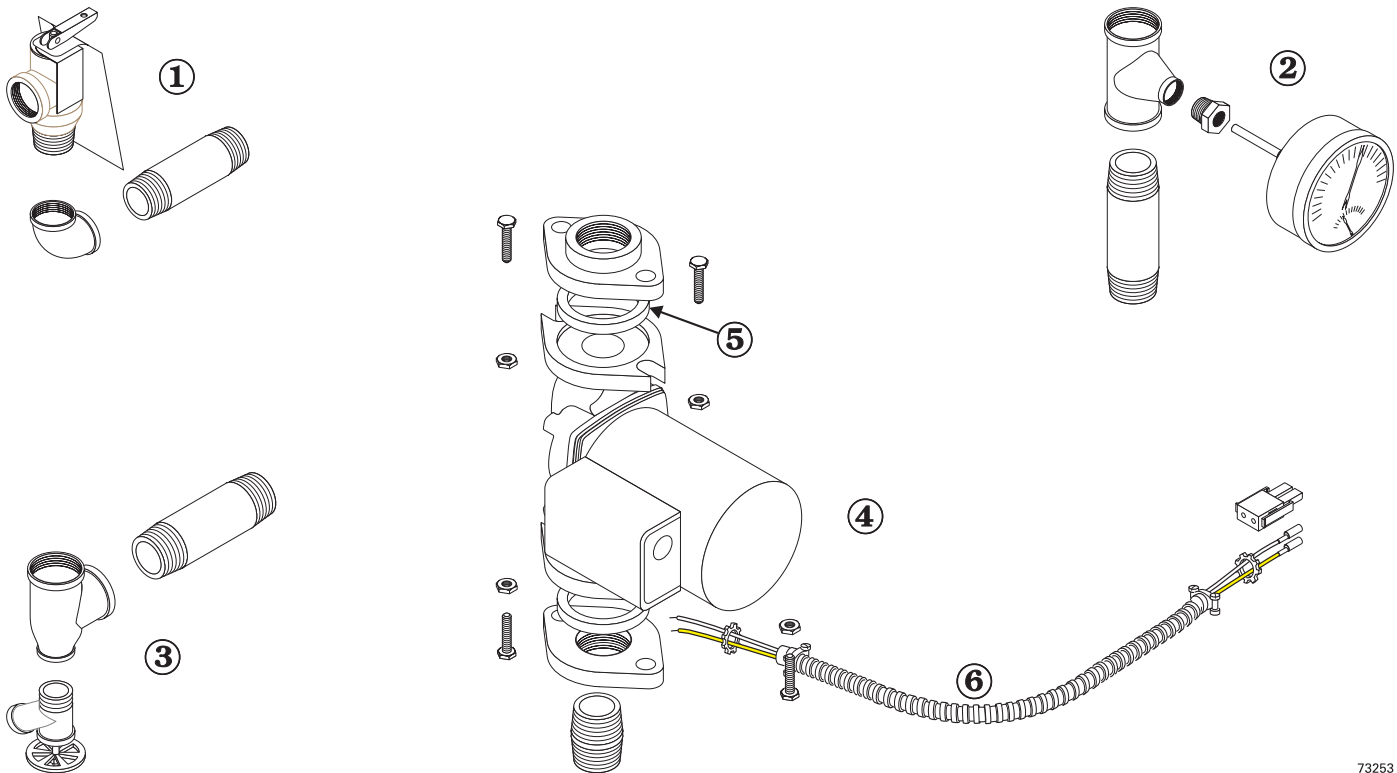
The boiler contains ceramic fiber and fiberglass materials. Use care when handling these materials per instructions on page 103 of this manual. Failure to comply could result in severe personal injury.



73252

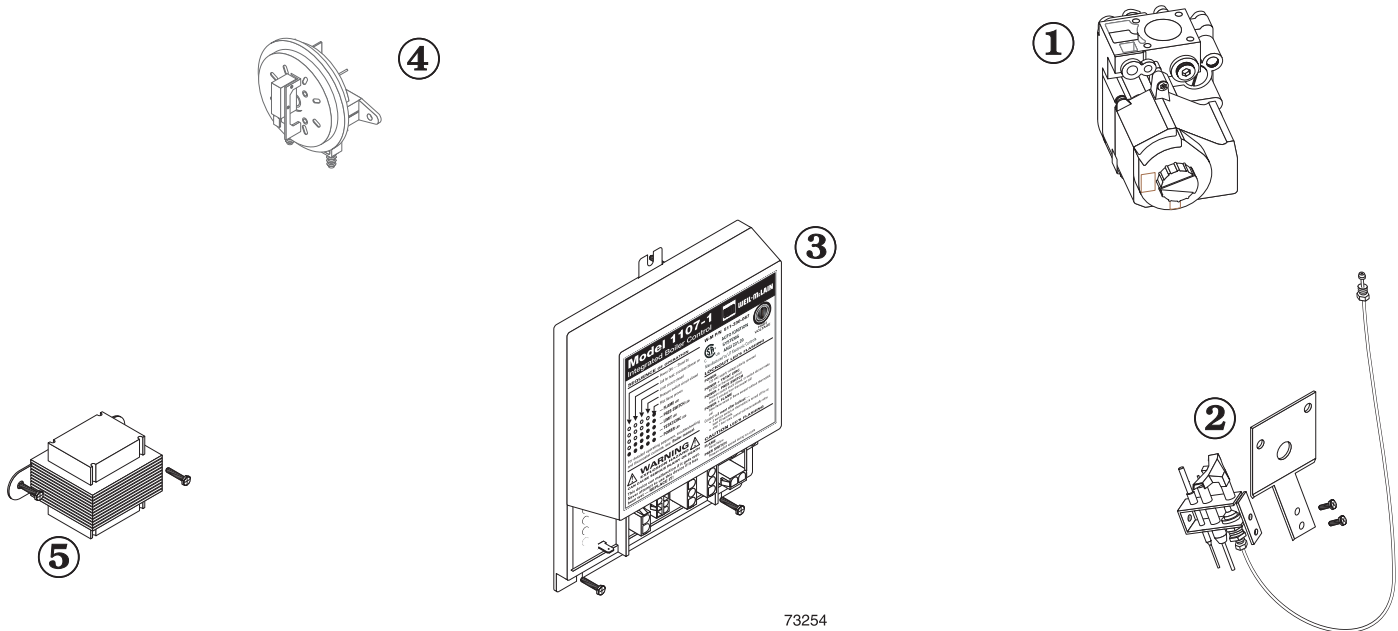
Item no.	Description		Part number
1	Jacket panel, left side, with insulation, NATURAL GAS	GWS-063 GWS-095 GWS-127 GWS-158	431-223-535WT 431-223-538WT 431-223-541WT 431-223-544WT
1	Jacket panel , left side, with insulation, PROPANE	GWS-063 GWS-095 GWS-127 GWS-158	431-223-547WT 431-223-548WT 431-223-549WT 431-223-550WT
2	Junction box, 2 x 4 (available at local supply house)		
3	Jacket panel, right side, with insulation	GWS-063 GWS-095 GWS-127 GWS-158	431-223-536WT 431-223-539WT 431-223-542WT 431-223-545WT
4	Jacket panel, top	GWS-063 GWS-095 GWS-127 GWS-158	421-300-031WT 421-300-033WT 421-300-034WT 421-300-035WT
5	Jacket panel, door	GWS-063 GWS-095 GWS-127 GWS-158	431-223-537WT 431-223-540WT 431-223-543WT 431-223-546WT

Item no.	Description		Part number
6	Jacket cross tie, bottom front	GWS-063 GWS-095 GWS-127 GWS-158	431-223-508WT 431-223-509WT 431-223-510WT 431-223-511WT
7	Jacket panel, interior, with insulation	GWS-063 GWS-095 GWS-127 GWS-158	431-223-427WT 431-223-429WT 431-223-430WT 431-223-431WT
8	Jacket panel, rear, with insulation	GWS-063 GWS-095 GWS-127 GWS-158	431-223-444WT 431-223-446WT 431-223-447WT 431-223-448WT
9	Air inlet fitting		560-907-635WT
10	Inlet air hose		562-302-575WT
11	Hose clamp, 3"		591-850-068WT



73253

Item number	Description	Manufacturer	Manufacturer's part number	Part number
1	Pressure relief valve, ASME, 30 PSIG, 3/4" male inlet	Conbraco Watts	10-407-10 M330	511-546-920WT
	Pressure relief valve, ASME, 30 PSIG, 3/4" female inlet (Fittings shown are factory-installed on boiler.)	Conbraco Watts	10-408-05 335	511-546-924WT
2	Combination pressure-temperature gauge, with 2 1/2" short shank	Ametek ENFM	PTA-1088 4104	510-218-099WT
3	Drain valve, 3/4" (Fittings shown are included with boiler.)	Conbraco Hammond Valve Matco-Norca Watts	31-606-01 710 205F04 BD-2C	511-210-423WT
4	Circulator (Fittings shown are shipped loose with boiler.)	Taco	007	511-405-113WT
5	Circulator gasket, universal (2 per boiler)			590-317-535WT
not shown	Circulator hardware kit, includes: 2 flanges, 4 nuts, 4 screws, 2 pipe nipples — 1" NPT — GWS-063 through GWS-127 1 1/4" NPT — GWS-158			381-354-525WT 381-354-526WT
6	Circulator wiring harness kit, with Molex (loose)			381-354-528WT



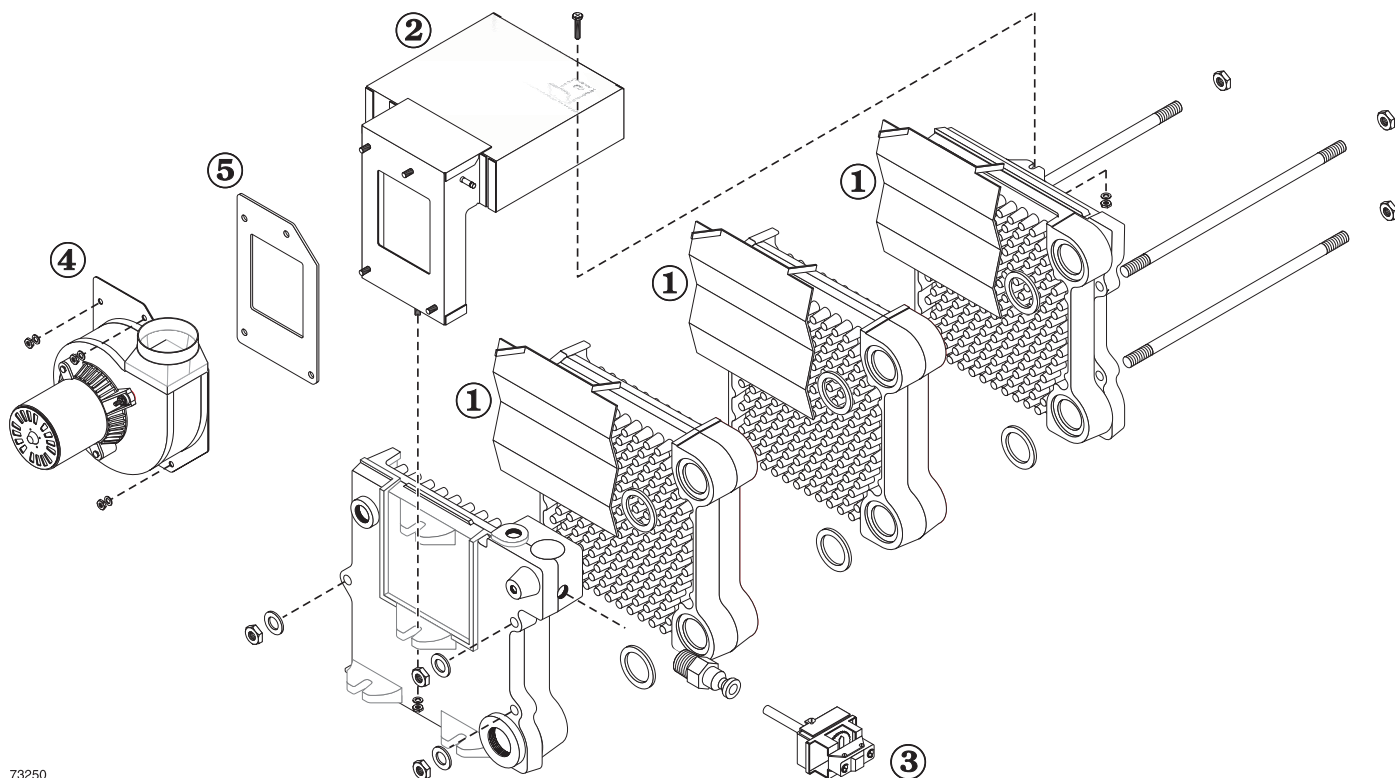
73254

Item number	Description	Manufacturer	Manufacturer's part number	Part number
Natural gas components				
1	Gas valve, 1/2" x 1/2"	Honeywell White-Rodgers	VR8204A2019 36E36-295	381-356-532WT
2	Pilot kit with orifice and aluminum pilot gas tubing			511-330-080WT
Propane gas components				
1	Gas valve, 1/2" x 1/2"	Honeywell White-Rodgers	VR8204M2719 36E36-296	381-356-533WT
2	Pilot kit with orifice and aluminum pilot gas tubing			511-330-081WT
Natural gas and propane gas components				
3	Control module	United Technologies	1107-1	511-330-090WT
not shown	Wiring harness — control			591-391-916WT
not shown	Wiring harness — 120V			591-391-915WT
4	Air pressure switch 1.79 Inches W.C. — GWS-063 1.48 Inches W.C. — GWS-095 1.22 Inches W.C. — GWS-127 0.95 Inches W.C. — GWS-158	Tri-Delta	PPS10171-3013 PPS10171-3014 PPS10171-3015 PPS10171-3016	511-624-401WT 511-624-402WT 511-624-403WT 511-624-404WT
5	Control transformer			511-842-370WT
not shown	Tubing, air pressure switch, 0.12 I.D. silicone red, to collector hood white, to transition	Lydall		590-317-650WT 590-317-651WT

Model
GWS-090E
Gas-fired Water Boilers

**Section assembly, flue collector, draft hood
and vent damper**

Parts for this model are shown on page 88 through page 93.



73250

Item number	Description		Part number
not shown	Replacement section assembly	GWS-090E	321-114-346WT
1	Radiation plate (1 per joint)		460-003-700WT
2	Collector hood and transition assembly	GWS-090E	381-354-601WT
3	High limit, 30° differential, with well	Honeywell L4080D1036 White-Rodgers 11B81-3	510-312-250WT
4	Inducer fan assembly kit, includes inducer fan assembly, gasket and nuts		381-356-499WT
5	Gasket, inducer		590-317-627WT

Model
GWS-090E
Gas-fired Water Boilers

Base assembly, manifold, burners and orifices

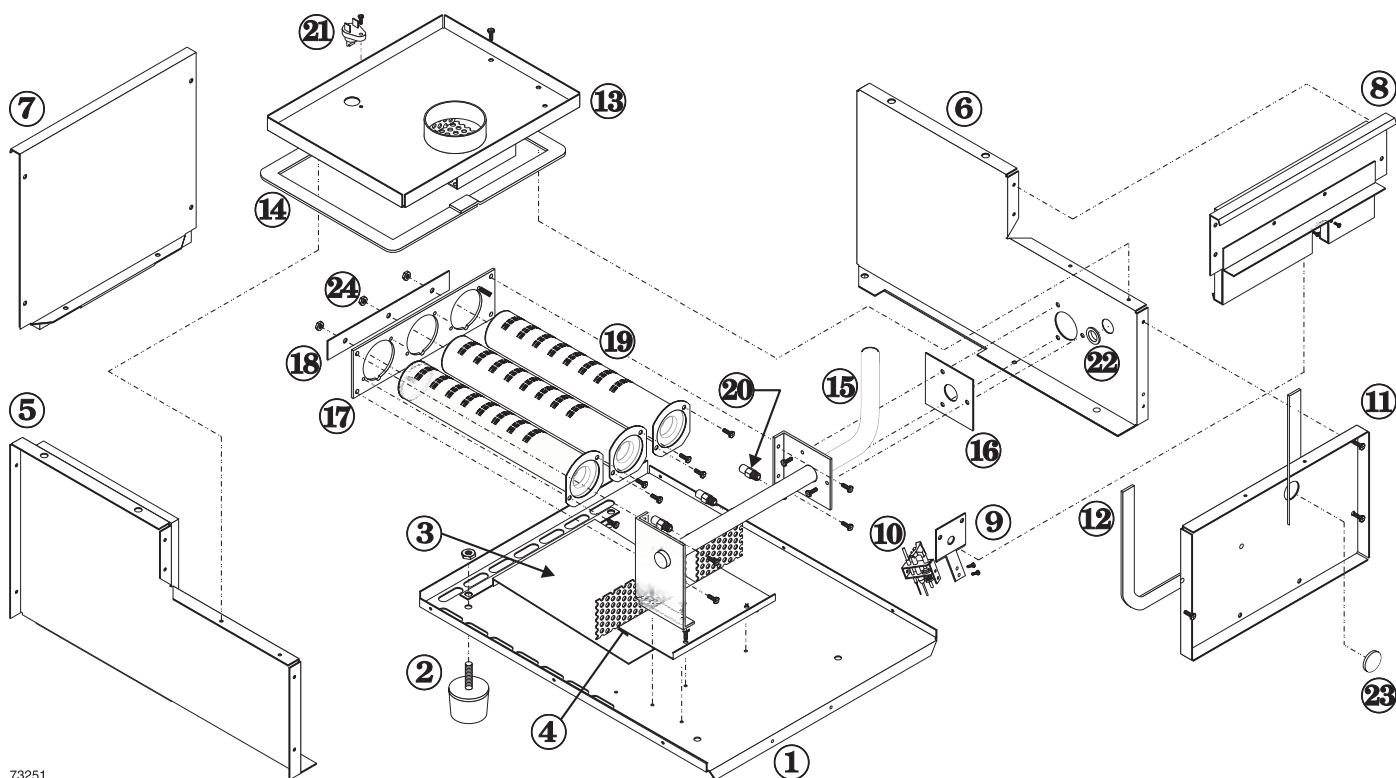
Parts for this model are shown on page 88 through page 93.

Item	Description	Part number
	Base insulation kit (includes insulation for all base parts shown above plus gasket material needed between block assembly and base)	GWS-090E 381-356-516WT
	Base assembly kit (includes base panels items 1, 2, 3, 4, 5, 6, 7, 8, 11, 13, 22 and 23 plus insulation, Air box gaskets, and hardware)	GWS-090E 381-356-523WT
	Inlet air box top panel kit (includes items 13 and 14)	GWS-090E 381-356-502WT
	Inlet air box front panel kit (includes items 11, 12 and 23)	GWS-090E 381-356-509WT
1	Base pan (in Base assembly)	
2	Boiler leg kit	550-320-219WT
3	Heat shield (in Base assembly)	
4	Burner baffle (in Base assembly)	
5	Base left side panel (in Base assembly)	
6	Base right side panel (in Base assembly)	
7	Base back panel (in Base assembly)	
8	Base front cross-tie assembly (in Base assembly)	
9	Pilot bracket	450-003-689WT
10	Pilot burner assembly — Natural gas Pilot burner assembly — Propane gas	511-330-080WT 511-330-081WT
11	Inlet air box front panel (in Inlet air box front panel kit)	
12	Inlet air box front panel gasket (use Gasket kit)	
13	Inlet air box top panel (in Inlet air box top panel kit)	
14	Inlet air box top panel gasket (use Gasket kit)	
15	Manifold (per size)	GWS-090E 591-126-723WT
16	Manifold mounting gasket	590-317-406WT
17	Burner mounting panel	GWS-090E 450-003-691WT
18	Rear spacer strip	GWS-090E 550-320-161WT
19	Burner GWS-095 — qty: 3	512-200-076WT
20	Burner orifice — Natural gas, sea level Burner orifice — Propane gas, sea level	560-529-126WT 560-529-111WT
21	Thermal fuse element	512-050-230WT
22	Grommet for sealing pilot tubing/wiring opening to Air box	591-850-064WT
23	Inspection port clear plug	591-491-216WT
24	Hex nut for burner end stud, 5 mm	550-320-170WT
	Gasket (for Air inlet box covers), 8-foot length	590-317-400WT

Model
GWS-090E
Gas-fired Water Boilers

Base assembly, manifold, burners and orifices

Parts for this model are shown on page 88 through page 93.



73251

Item number	Description		Part number
not shown	Replacement section assembly	GWS-090E	321-114-346WT
1	Radiation plate (1 per joint)		460-003-700WT
2	Collector hood and transition assembly	GWS-090E	381-354-601WT
3	High limit, 30° differential, with well	Honeywell L4080D1036 White-Rodgers 11B81-3	510-312-250WT
4	Inducer fan assembly kit, includes inducer fan assembly, gasket and nuts		381-356-499WT
5	Gasket, inducer		590-317-627WT

Model
GWS-090E

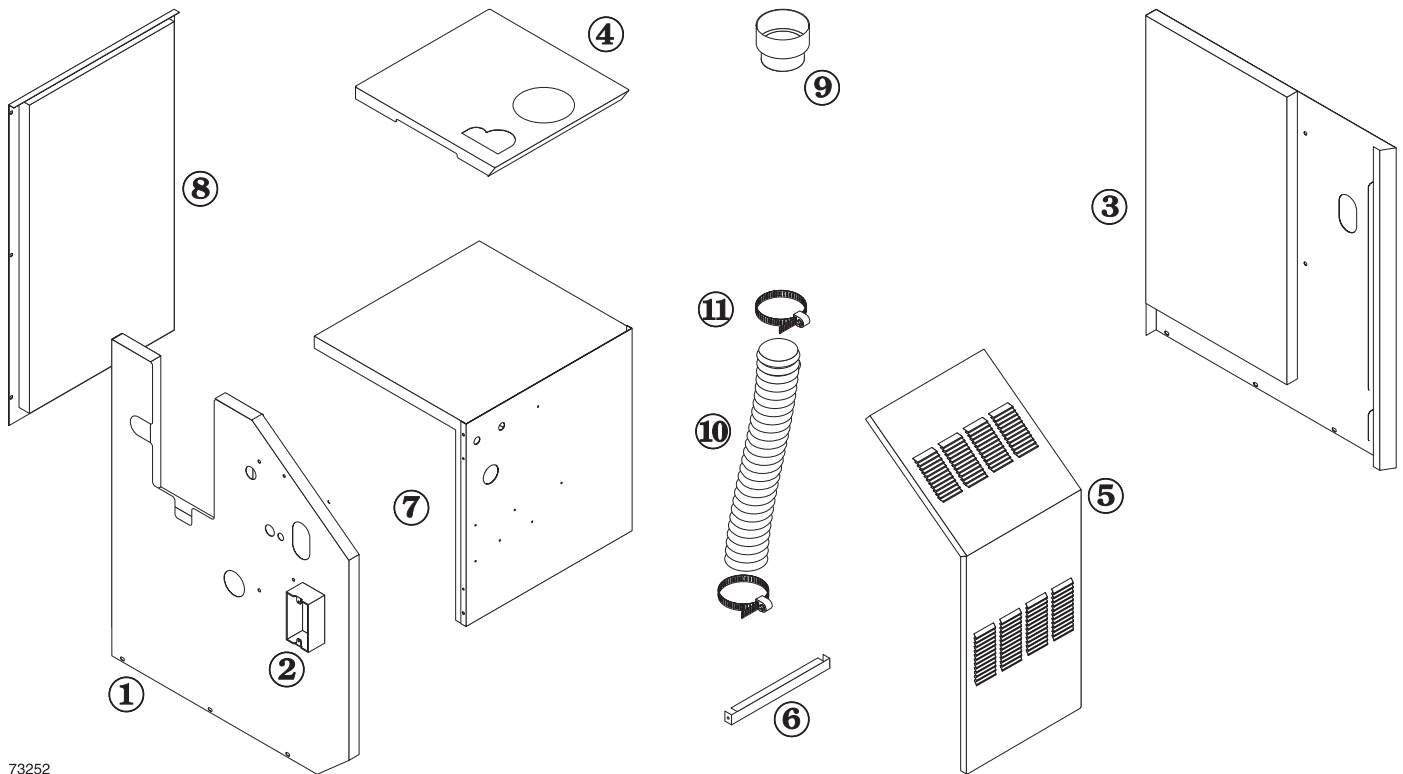
Gas-fired Water Boilers

Jacket assembly

Parts for this model are shown on page 88 through page 93.



The boiler contains ceramic fiber and fiberglass materials. Use care when handling these materials per instructions on page 103 of this manual. Failure to comply could result in severe personal injury.



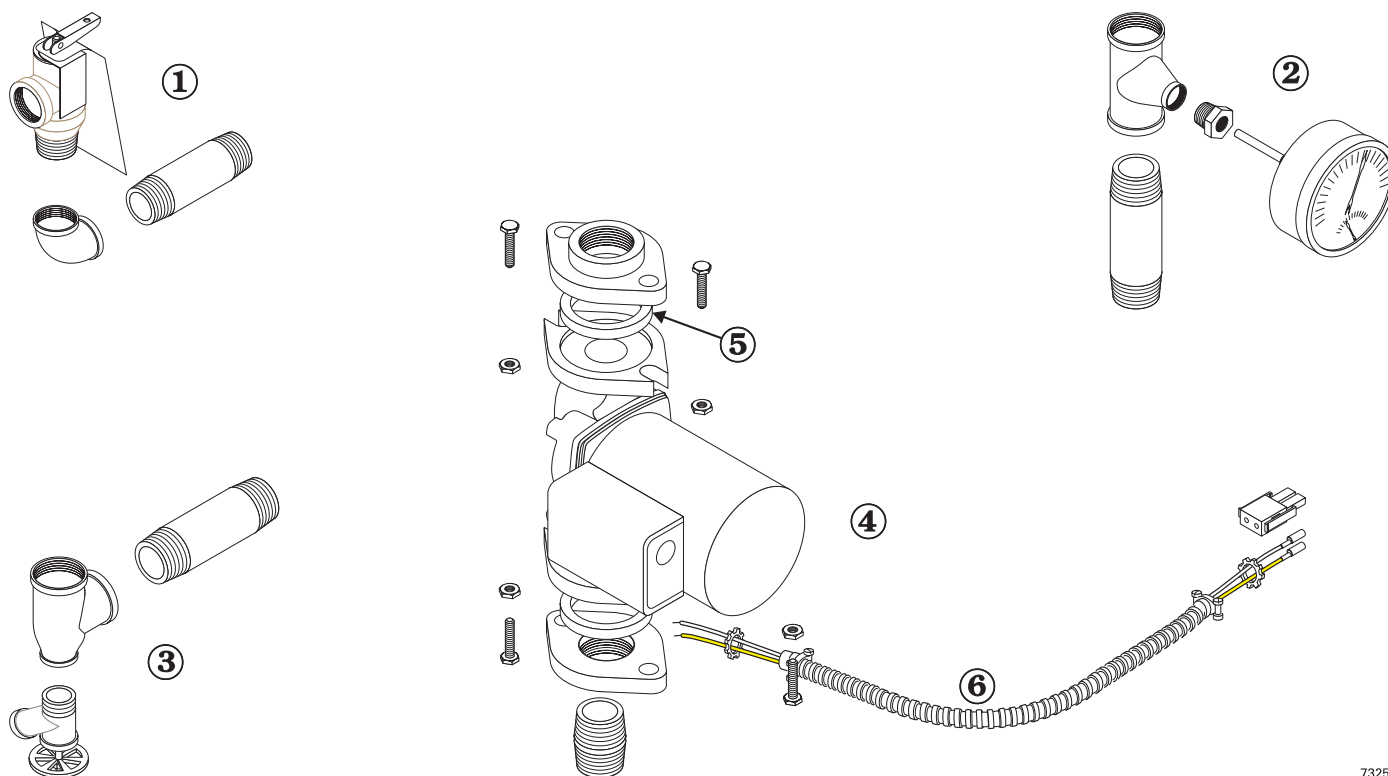
73252

Item number	Description		Part number
1	Jacket panel , left side, with insulation: Natural gas Propane		431-223-490WT 431-223-496WT
2	Junction box, 2 x 4 (available at local supply house)		
3	Jacket panel, right side, with insulation		431-223-488WT
4	Jacket panel, top	GWS-090E	431-223-493WT
5	Jacket panel, door	GWS-090E	431-223-489WT
6	Jacket cross tie, bottom front	GWS-090E	431-223-509WT
7	Jacket panel, interior, with insulation	GWS-090E	431-223-500WT
8	Jacket panel, rear, with insulation	GWS-090E	431-223-446WT
9	Air inlet fitting		560-907-635WT
10	Inlet air hose		562-302-575WT
11	Hose clamp, 3"		591-850-068WT

Model
GWS-090E
Gas-fired Water Boilers

Trim assembly

Parts for this model are shown on page 88 through page 93.



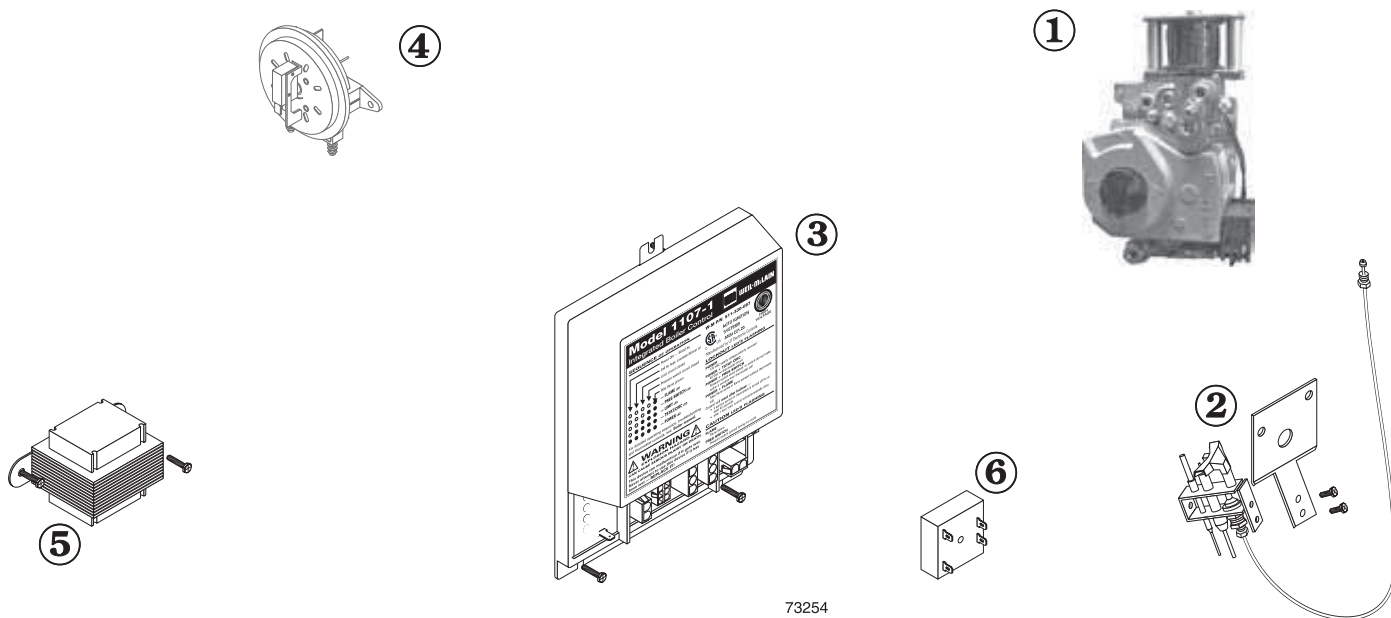
73253

Item number	Description	Manufacturer	Manufacturer's part number	Part number
1	Pressure relief valve, ASME, 30 PSIG, 3/4" male inlet	Conbraco Watts	10-407-10 M330	511-546-920WT
	Pressure relief valve, ASME, 30 PSIG, 3/4" female inlet (Fittings shown are factory-installed on boiler.)	Conbraco Watts	10-408-05 335	511-546-924WT
2	Combination pressure-temperature gauge, with 2 1/2" short shank	Ametek ENFM	PTA-1088 4104	510-218-099WT
3	Drain valve, 3/4" (Fittings shown are included with boiler.)	Conbraco Hammond Valve Matco-Norca Watts	31-606-01 710 205F04 BD-2C	511-210-423WT
4	Circulator (Fittings shown are shipped loose with boiler.)	Taco	007	511-405-113WT
5	Circulator gasket, universal (2 per boiler)			590-317-535WT
not shown	Circulator hardware kit, includes: 2 flanges, 4 nuts, 4 screws, 2 pipe nipples — 1" NPT			381-354-525WT
6	Circulator wiring harness kit, with Molex (loose)			381-354-528WT

Model
GWS-090E
Gas-fired Water Boilers

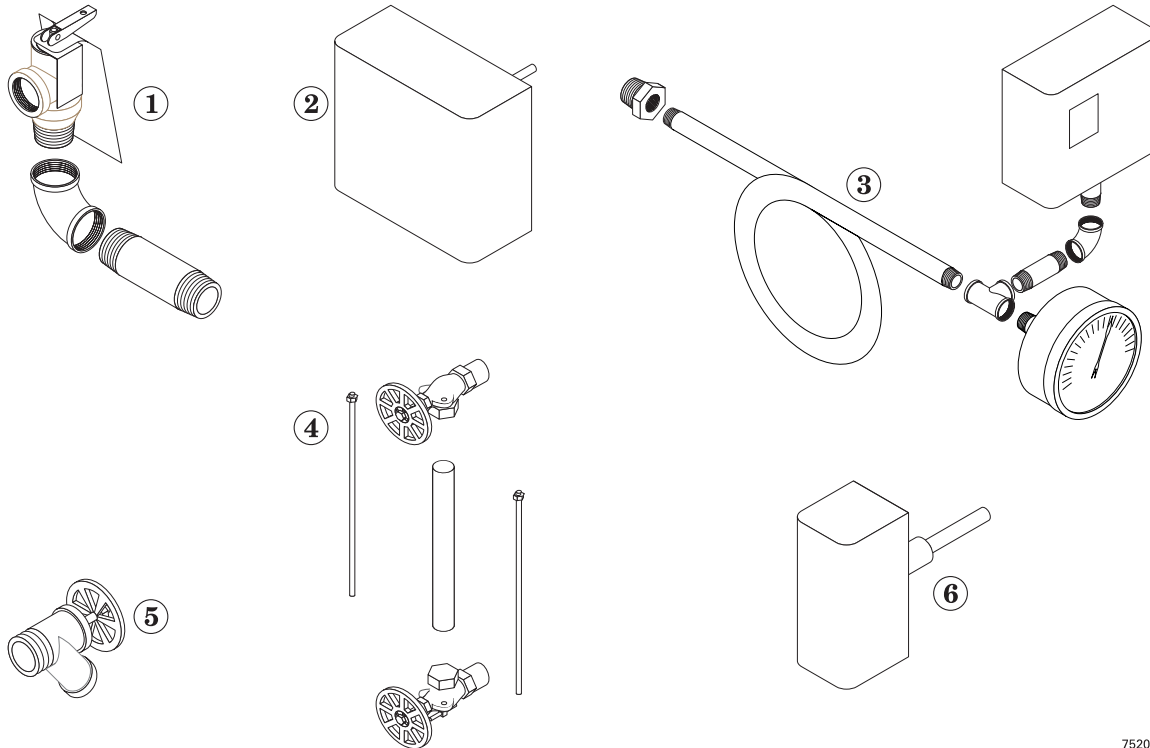
Gas control assembly

Parts for this model are shown on page 88 through page 93.



73254

Item number	Description	Manufacturer	Manufacturer's part number	Part number
Natural gas components				
1	Gas valve, ½" x ½", two-stage Natural gas	Honeywell	VR8204Q2426	511-044-507WT
2	Pilot assembly kit with orifice and aluminum pilot gas tubing	Weil-McLain		511-330-080WT
Propane gas components				
1	Gas valve, ½" x ½", two-stage Propane	Honeywell	VR8204Q2442	511-044-509WT
2	Pilot assembly kit with orifice and aluminum pilot gas tubing	Weil-McLain		511-330-081WT
Natural gas and propane gas components				
3	Control module	United Technologies	1107-1	511-330-090WT
not shown	Wiring harness — control	Weil-McLain		591-391-952WT
not shown	Wiring harness — 120V	Weil-McLain		591-391-900WT
not shown	Timer harness #1	Weil-McLain		591-391-954WT
4	Air pressure switch 1.71 I.W.C. — GWS-090E	Cleveland	NS2-1047-08	511-624-656WT
5	Control transformer			511-842-370WT
6	Timer relay *	ABB	TS12190	510-350-468WT
not shown	Tubing, air pressure switch, 0.12 I.D. silicone red, to collector hood white, to transition	Lydall		590-317-650WT 590-317-651WT

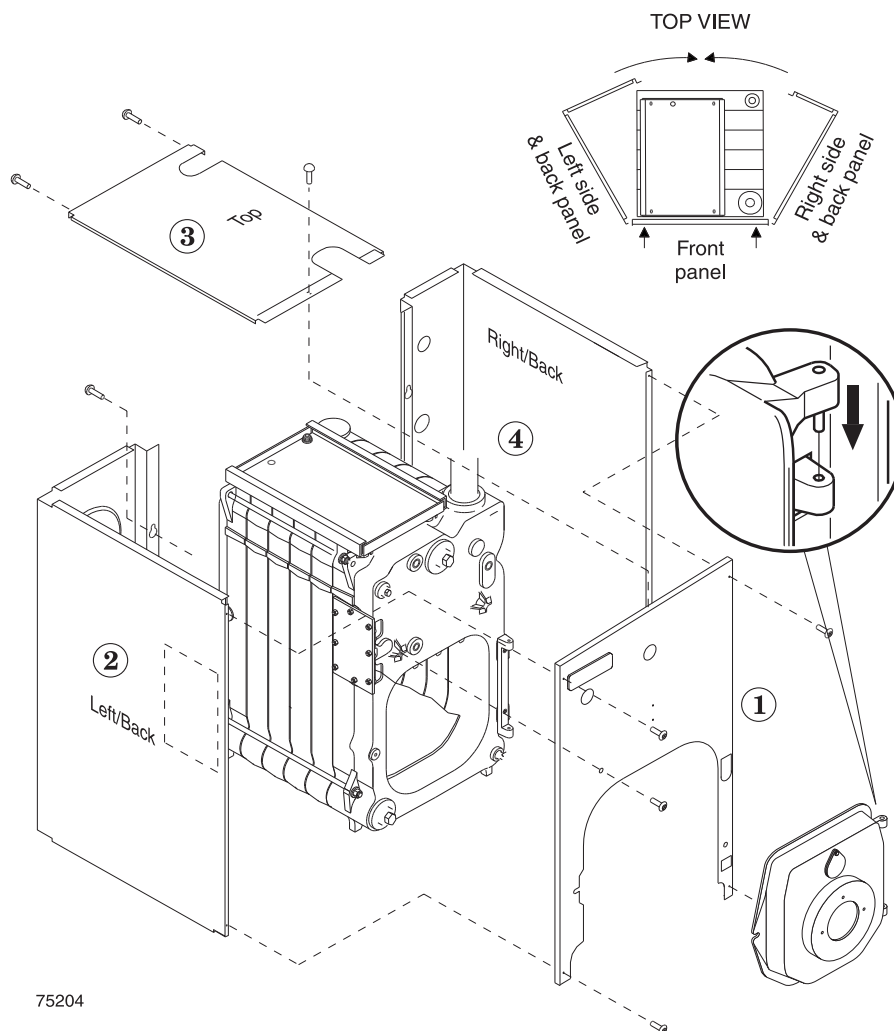


75205

Item number	Description	Manufacturer	Manufacturer's part number	Part number
1	Pressure relief valve, ASME, 30 PSIG, ¾" npt (Fittings shown are included — Ell ¾" npt, Nipple ¾" npt)	Conbraco Watts	13-501-08 315	511-548-023WT 511-548-023WT
2	Low water cutoff, probe-type	McDonnell & Miller Hydrolevel	PS-801-120 45-450	511-114-507WT 511-114-507WT
3	Limit control/gauge assembly, includes: High limit pressure control Gauge, pressure, 2½" Siphon, ¼" npt, 180° brass Nipple, close ¼" npt Tee, ¼" npt Elbow, ¼" npt	Honeywell Ametek	PA404A1009 P505K	510-312-135WT 510-218-045WT 560-640-698WT 561-326-245WT 561-541-200WT 561-115-335WT
4	Gauge glass assembly, includes: Gauge glass Gauge glass guards, 10.62" Gauge cock set, brass	Conbraco	21-205-03-W	591-419-194WT 563-334-597WT 510-218-135WT
5	Drain valve, ¾"	Conbraco Hammond Matco-Norca Watts	31-606-01 710 205F04 BD-2C	511-210-423WT 511-246-392WT 511-246-392WT 511-246-392WT
6	Tankless temperature control (optional) 10°F differential; with well	Honeywell	11C18-2	510-312-209WT
not shown	Burner harness			591-391-913WT
not shown	Pressure control harness			591-391-912WT
not shown	Burner plug			643-900-020WT
not shown	Balanced draft control (barometric)	Effikal	ESOC-7	510-512-267WT



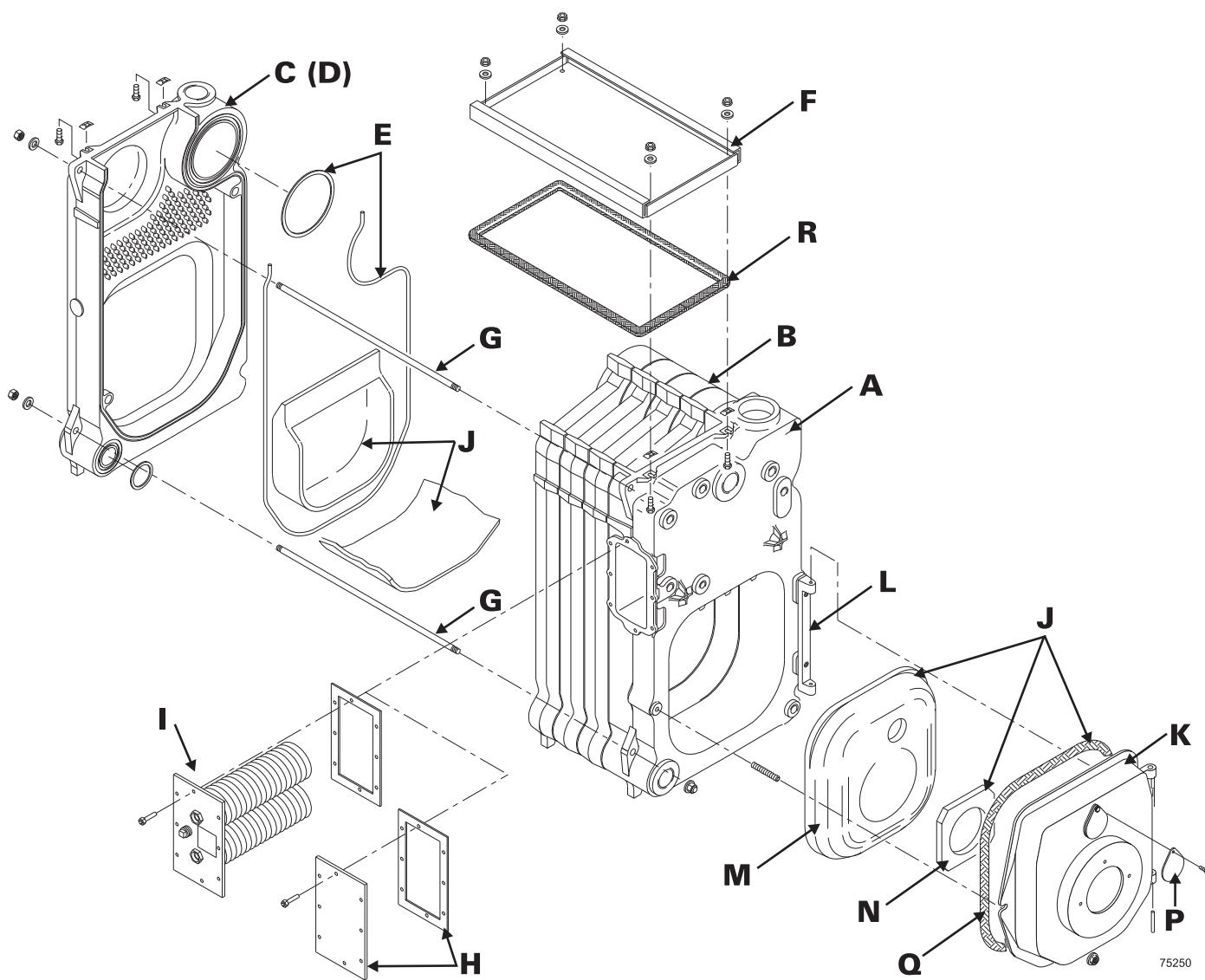
The boiler contains ceramic fiber and fiberglass materials. Use care when handling these materials per instructions on page 103 of this manual. Failure to comply could result in severe personal injury.



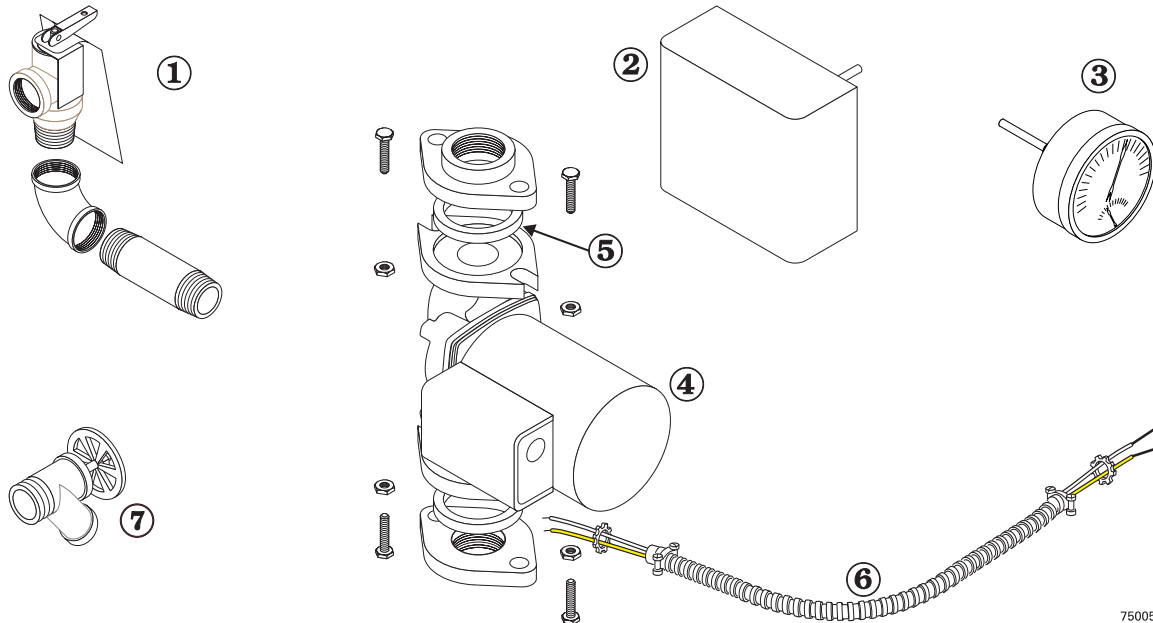
Item number	Description	Boiler model number	Part number
1	Jacket panel, front	All	426-722-005WT
2	Jacket panel, left side and back	OSB-3 OSB-4 OSB-5 OSB-6	426-722-027WT 426-722-029WT 426-722-031WT 426-722-033WT
3	Jacket panel, top	OSB-3 OSB-4 OSB-5 OSB-6	426-722-015WT 426-722-017WT 426-722-019WT 426-722-021WT

Item number	Description	Boiler model number	Part number
4	Jacket panel, right side and back	OSB-3 OSB-4 OSB-5 OSB-6	426-722-037WT 426-722-039WT 426-722-041WT 426-722-043WT
	Jacket hardware kit	All	386-700-845WT

Figure number	Description	Boiler model number	Part number
A	Wide front section, number 7111	All	316-722-009WT
B	Intermediate section, 7115	All	316-722-017WT
C	Back section, 7117 (steam, no top tapping)	OSB-3, -4, -5	316-722-025WT
D	Back section, 7117 (steam, top tapping)	OSB-6	316-722-029WT
E	Section replacement kit, front or back section (for 1 joint, includes seals, rope, adhesive and collector hood hardware)	All	386-700-852WT
	Section replacement kit, intermediate section (for 2 joints, includes seals, rope and adhesive)	All	386-700-851WT
	Section assembly complete	OSB-3	326-700-030WT
		OSB-4	326-700-031WT
		OSB-5	326-700-032WT
		OSB-6	326-700-033WT
F	Collector hood kit (includes rope and hardware for installation)	OSB-3	386-700-837WT
		OSB-4	386-700-838WT
		OSB-5	386-700-839WT
		OSB-6	386-700-840WT
G	Tie rod $\frac{1}{2}$ x 12 $\frac{1}{4}$	OSB-3	560-234-493WT
	Tie rod $\frac{1}{2}$ x 15 $\frac{3}{8}$	OSB-4	560-234-532WT
	Tie rod $\frac{1}{2}$ x 18 $\frac{1}{2}$	OSB-5	560-234-475WT
	Tie rod $\frac{1}{2}$ x 21 $\frac{5}{8}$	OSB-6	560-234-536WT
H	Heater cover plate carton (cover plate, gasket, studs and nuts)	All	389-900-103WT
I	Tankless heater carton, 35-S-29 (heater, gasket, studs and nuts)	All	386-700-350WT
J	Combustion chamber kit (rear and front refractory, door refractory blanket and water glass)	All	386-700-836WT
	Burner mounting door assembly (door, observation port, rope, insulation and pins)	All	343-500-546WT
K	Burner mounting door, 7171	All	330-054-305WT
L	Door hinge, 7054	All	330-054-300WT
M	Door refractory	All	592-400-028WT
N	Door refractory blanket	All	591-222-115WT
P	Observation port shutter	All	460-039-867WT
Q	Door seal rope 5'	All	590-735-105WT
R	$\frac{3}{8}$ " glass rope for collector hood (7' for largest size hood)	All	590-735-109WT
	Flue brush, 123D	All	591-706-214WT



75250



75005

Item number	Description	Manufacturer	Manufacturer's Part number	Part number
1	Pressure relief valve, ASME, 30 PSIG, ¾" male inlet	Watts	M330	511-546-920WT
2	High limit control combination with low water cut-off	Hydrolevel	48-3150	381-356-530WT
3	Combination pressure-temperature gauge	Amekai - ENFM	OS234JDTW003	510-218-099WT
4	Circulator (Fittings shown are shipped loose with boiler.)	Taco	007	511-405-113WT
5	Circulator gasket, universal (2 per boiler)	Williamson-Theroflo		590-317-535WT
	Circulator hardware kit, includes: 2 flanges, 4 nuts, 4 bolts, 1 nipple, 1 ell — 1¼" NPT — OWB/OWT-3 & OWB/OWT-4 1½" NPT — OWB/OWT-5 & OWB/OWT-6	Williamson-Theroflo Williamson-Theroflo		381-354-526WT 381-354-531WT
6	Circulator wiring harness	Williamson-Theroflo		591-391-910WT
7	Drain valve, ¾" NPT,	Conbraco Hammond Valve Matco-Norca Watts		511-210-423WT 511-246-392WT 511-246-392WT 511-246-392WT
not shown	Burner wiring harness	Williamson-Theroflo		591-391-911WT
not shown	Balanced draft damper (barometric)	Effikal Fields Control	ESOC-7 02723101	510-512-267WT

WHEN USING Hydrostat 3150 Control on OWB or OWT Series 1:

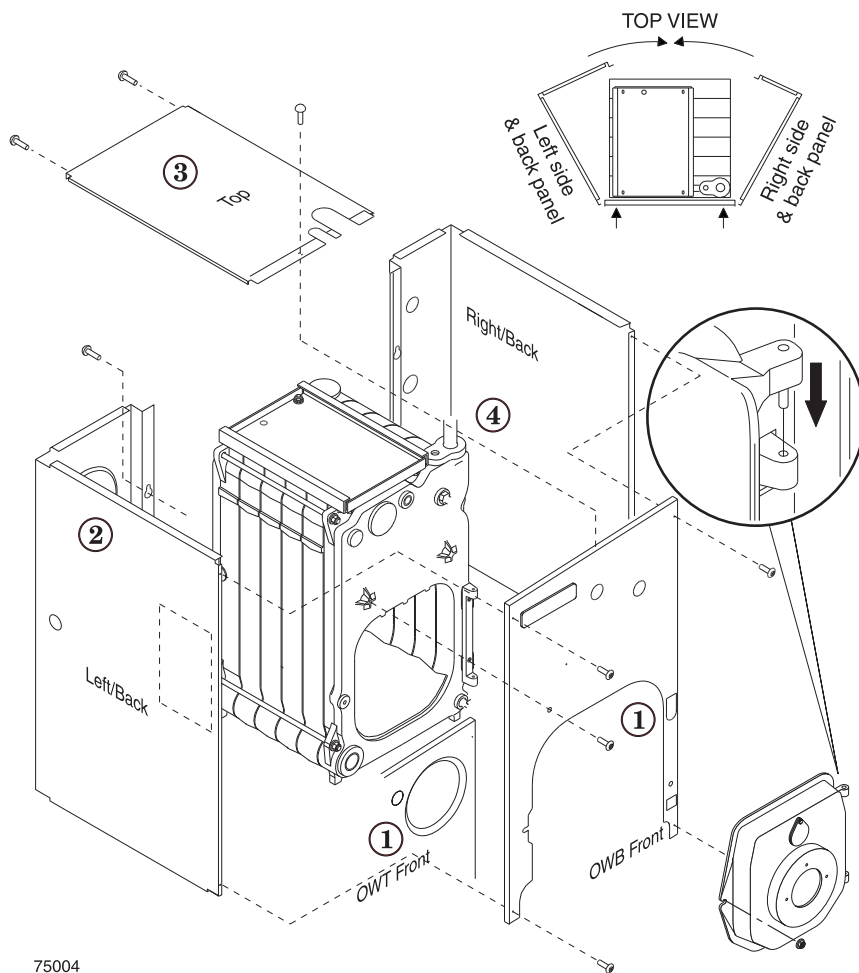
For boilers using the Hydrostat 3150 control, the following Electro well is also required (not illustrated):

OWB — well part number 592-300-026WT

OWT — well part number 592-300-027WT



The boiler contains ceramic fiber and fiberglass materials. Use care when handling these materials per instructions on page 103 of this manual. Failure to comply could result in severe personal injury.



75004

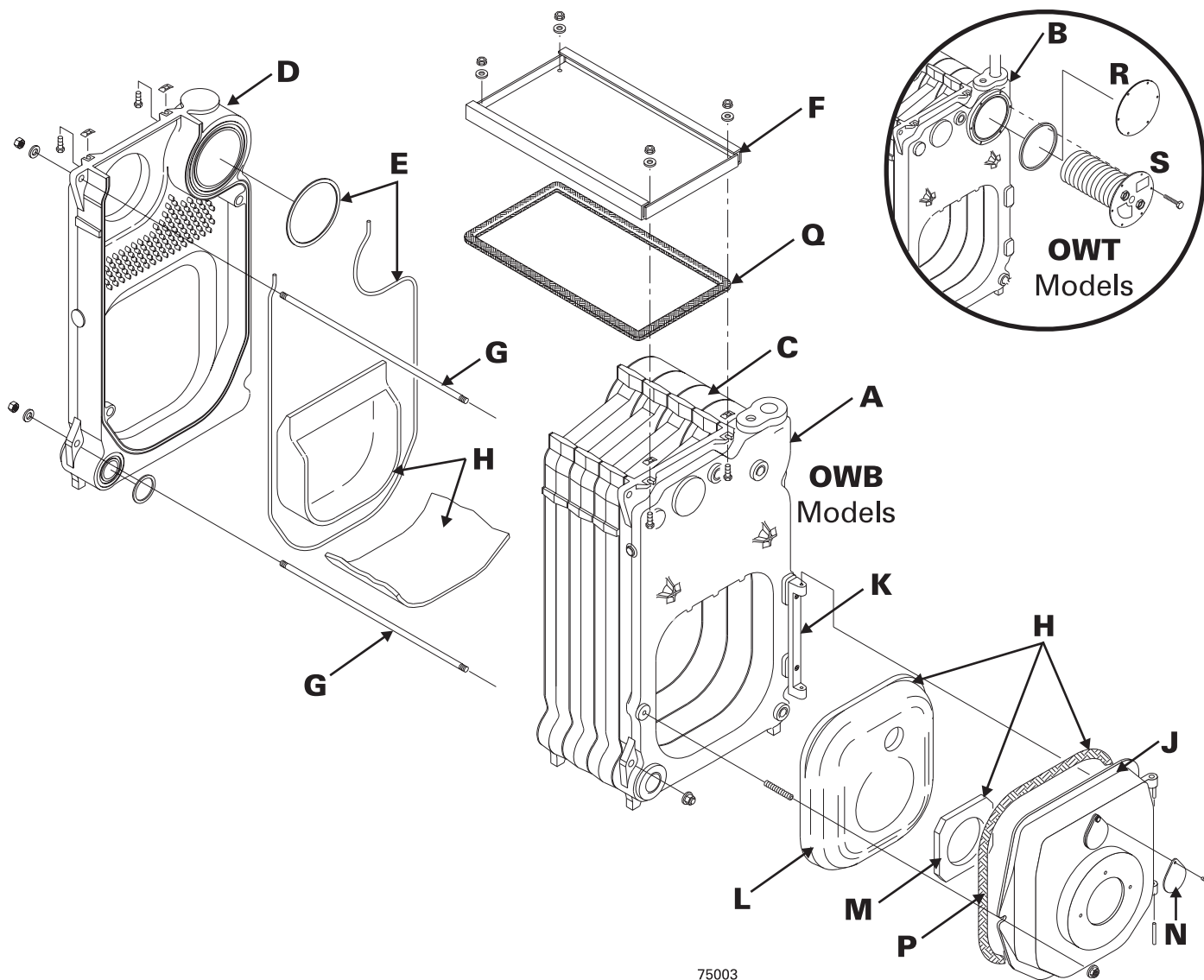
Item number	Description	Boiler model number	Part number
1	Jacket panel, front without heater opening with heater opening	OWB (All) OWT (All)	426-722-001WT 426-722-003WT
2	Jacket panel, left side and back	OWB/OWT-3 OWB/OWT-4 OWB/OWT-5 OWB/OWT-6	426-722-025WT 426-722-027WT 426-722-029WT 426-722-031WT
3	Jacket panel, top	OWB/OWT-3 OWB/OWT-4 OWB/OWT-5 OWB/OWT-6	426-722-007WT 426-722-009WT 426-722-011WT 426-722-013WT

Item number	Description	Boiler model number	Part number
4	Jacket panel, right side and back	OWB/OWT-3 OWB/OWT-4 OWB/OWT-5 OWB/OWT-6	426-722-035WT 426-722-037WT 426-722-039WT 426-722-041WT
	Jacket hardware kit	All	386-700-845WT

Boiler section assembly, refractories, collector hood and burner door assembly

Parts for this model are shown on page 98 through page 101.

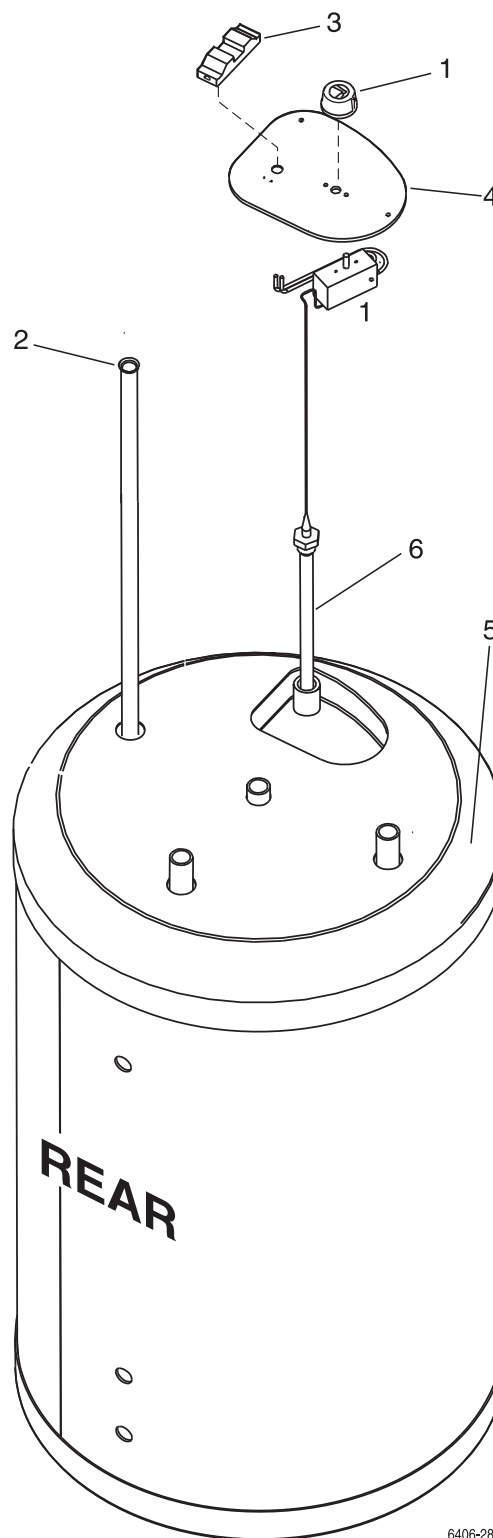
Figure number	Description	Boiler model number	Part Number
A	Front section, number 7112	All	316-722-013WT
B	Front section with tankless heater opening, number 7113	All	316-722-005WT
C	Intermediate section, number 7115	All	316-722-017WT
D	Back section, number 7117	All	316-722-021WT
E	Section replacement kit, front or back section (for 1 joint, includes seals, rope, adhesive and collector hood hardware)	All	386-700-852WT
	Section replacement kit, intermediate section (for 2 joints, includes seals, rope and adhesive)	All	386-700-851WT
	Section assembly complete	OWB-3	326-700-020WT
		OWB-4	326-700-021WT
		OWB-5	326-700-022WT
		OWB-6	326-700-023WT
		OWT-3	326-700-010WT
		OWT-4	326-700-011WT
		OWT-5	326-700-012WT
		OWT-6	326-700-013WT
F	Collector hood kit (includes rope and hardware for installation)	OWB/OWT-3	386-700-841WT
		OWB/OWT-4	386-700-842WT
		OWB/OWT-5	386-700-843WT
		OWB/OWT-6	386-700-844WT
G	Tie rod ½ x 10¾"	OWB/OWT-3	560-234-491WT
	Tie rod ½ x 14"	OWB/OWT-4	560-234-470WT
	Tie rod ½ x 17"	OWB/OWT-5	560-234-472WT
	Tie rod ½ x 20"	OWB/OWT-6	560-234-534WT
H	Combustion chamber kit (rear and front refractory, door refractory blanket and water glass)	All	386-700-836WT
	Burner mounting door assembly (door, observation port, rope, insulation and pins)	All	343-500-546WT
J	Burner mounting door, number 7171	All	330-054-305WT
K	Door hinge, number 7054	All	330-054-300WT
L	Door refractory	All	592-400-028WT
M	Door refractory blanket	All	591-222-115WT
N	Observation port shutter	All	460-039-867WT
P	Door seal rope 5'	All	590-735-105WT
Q	⅝" Glass rope for collector hood (7' for largest size hood)	All	590-735-109WT
R	Heater cover plate carton (cover plate, gasket, studs and nuts)	All	386-700-360WT
S	Tankless heater kit (heater, gasket, studs and nuts) OWT-3 (heater model WT-11) OWT-4 through OWT-6 (heater model WT-14)	OWT-3 OWT-4, -5 & -6	590-921-599WT 590-921-612WT
	Flue brush, 123D	All	591-706-214WT



75003

Model DHW Indirect-fired water heater	Water heater replacement parts
	Parts for this model are shown on this page only

Item	Description	Size	Part Number
1	Thermostat Kit with Knob - No Cover Plate		633-900-130WT
not shown	Air Vent, Automatic, # 400	$\frac{1}{8}$ "	635-100-003
not shown	Drain Valve Kit		633-900-117
2	DHW 28 Dip Tube Kit	$\frac{3}{4}$ "	633-900-118
	DHW 36 Dip Tube Kit	$\frac{3}{4}$ "	633-900-119
	DHW 46 Dip Tube Kit	$\frac{3}{4}$ "	633-900-120
	DHW 56 Dip Tube Kit	$\frac{3}{4}$ "	633-900-125
not shown	"O" Rings, 2 each	$\frac{3}{4}$ "	635-600-096
3	Snap-Set with Wire Connector		635-600-145
4	Cover Plate and Plastic Fasteners		633-900-200
5	Plastic Top Cover (specific to tank size)		Special Order
6	DHW 28 Drywell replacement kit		635-600-061
	DHW 36 Drywell replacement kit		635-600-062WT
	DHW 46 Drywell replacement kit		635-600-063WT
	DHW 56 Drywell replacement kit		635-600-064WT
not shown	Thermostat with Cover Plate Kit		633-900-102WT



6406-28

HANDLING CERAMIC FIBER MATERIALS

REMOVING JACKET PANELS, BURNER GASKET, COVER PLATE INSULATION



The W-T boiler contain refractory contain ceramic fiber materials that have been identified as carcinogenic, or possibly carcinogenic, to humans). Ceramic fibers can be converted to cristobalite in very high temperature applications.

The International Agency for Research on Cancer (IARC) has concluded, "Crystalline silica inhaled in the form of quartz or cristobalite from occupational sources is carcinogenic to humans (Group 1)".

- Avoid breathing dust and contact with skin and eyes.
 - Use NIOSH certified dust respirator (N95). This type of respirator is based on the OSHA requirements for cristobalite at the time this document was written. Other types of respirators may be needed depending on the job site conditions. Current NIOSH recommendations can be found on the NIOSH web site at <http://www.cdc.gov/niosh/homepage.html>. NIOSH approved respirators, manufacturers, and phone numbers are also listed on this web site.
 - Wear long-sleeved, loose fitting clothing, gloves, and eye protection.
- Handle carefully to minimize dust that could be caused by abrasion.
- If replacement is necessary, remove the refractory from the boiler and place it in a plastic bag for disposal.
- Wash potentially contaminated clothes separately from other clothing. Rinse clothes washer thoroughly.

NIOSH stated First Aid

- Eye: Irrigate immediately
- Breathing: Fresh air.

W-T
8201 W. Calumet Rd.
Milwaukee, WI 53223