

# Appendix F: Parts List and Plumbing Schematic

## Illustrated Parts List

**IMPORTANT** Not all parts on this list apply to ABI 431 units that have had 631 Monitoring Kits installed. Wherever this symbol (•) appears the correct part number may vary from the number shown. Contact PE Applied Biosystems for correct part numbers.

Photo Reference Number	Part Number	Description	
<b>Valve Blocks</b>	1	604061	Delivery valve assembly, 4 port
	2	604060	Delivery valve assembly, 8 port
	3	601374	Delivery valve assembly, 11 port
	4	•603209	Signal distribution printed circuit board
<b>Assemblies</b>	5	600344	Valve assembly, solenoid, Angar (7 valves)
	6	600640	Valve assembly, TFA pressure/vent (2 valves)
	7	600437	Activator vessel/holder assembly
	8	•603082	Reaction vessel holder assembly (RTF)
		•603194	Assembly, RV holder
	9A	•401573	RTF reaction vessel assembly (40 mL)
		600626	RV gasket, 0.500-in. o.d. x 0.062-in. i.d., Kalrez™
	9B	•401574	RTF reaction vessel assembly (8 mL)
	9C	•401571	RTF reaction vessel assembly (55 mL)
		•401572	Resin-sampling RTF reaction vessel assy (40 mL)
		•401575	Resin-sampling RTF reaction vessel assy (8 mL)
		•401576	Resin-sampling RTF reaction vessel assy (55 mL)
		600626	Gasket, 0.500-in. o.d. x 0.062-in. i.d., Kalrez™
		401524	Filters, reaction vessel (tabbed)
		400256	Metering vessel
	10	•603084	Vortexer assembly DC (Model 433)
		603092	Vortexer bearing
		•004397	Vortexer belt
		•603211	Vortexer PCB
	11	601317	Autosampler assembly
	600737	Plunger assembly (Not shown—user-trained access only)	
	224009	Constant force spring	
	003969	Needle cover plate	
12	601318	Autosampler ejector assembly	
	601283T	Autosampler PCB	
13	602995	Needle assembly	
14	•603351	433 barcode reader assembly	
15	602576	Keyboard/display assembly	

Photo Reference Number	Part Number	Description	
16	601377	Resin sampler assembly	
	601591	Fraction collector line, 1/16 in. x 0.8 mm x 48 in.	
17	004053	Valve assembly, 4-way pneumatic	
18	601313	Vacuum ballast assembly (not visible)	
19	130096	Vacuum pump assembly	
20	601310	Waste manifold assembly	
21	601311	Nitrogen inlet assembly	
22	002192	Manifold tube, input/output	
23	130042	Pressure/vent valve, 3-way toggle	
<b>Bottle Cap Assemblies</b>	24	001208	Housing, receptacle (7 positions)
		003560	Lid, receptacle, ratchet (7 positions)
		003558	Receptacle, ratchet, 8 oz (positions 1*, 7, 8)
		003559	Receptacle, ratchet, 16 oz (positions 1*, 2, 4, 5, 6)
		002571	Wave spring, nickle-plated (7 positions)
		601338	Ratchet insert assembly, position 1
		or603842	Ratchet insert assembly, position 1* (16 oz) (* position 1 is 16 oz in monitoring systems)
		601341	Ratchet insert assembly, position 2
		601337	Ratchet insert assembly, position 4
		602976	Ratchet insert assembly, position 5
		602977	Ratchet insert assembly, position 6
		601339	Ratchet insert assembly, positions 7 and 8
		400790	Bottle seals, 200 mL (8 oz), 10/box
		400501	Bottle seals, 450 mL (16 oz), 10/box
		400790	Bottle seals, 450 mL (16 oz) position 2, 10/pkg
<b>Regulator Assemblies</b>	25	601309	Regulator assembly, upper
	26	601319	Regulator assembly, lower

**IMPORTANT** 431 systems that have had 631 Monitoring Kits installed do **not** use the following electronics part numbers. Contact PE Applied Biosystems for the appropriate part numbers.

Electronics	Part Number	Description
27	•603297	Controller board
28	•603409	Multifunction board
29	•603085	Power supply
30	•0135-006	Fan, 24 VDC
	254239	Power cord, 100 VAC (Japan; not shown)
	254184	Power cord, 120 VAC (USA/Canada; not shown)
	254185	Power cord, 220 VAC (not shown)
	254186	Power cord, 240 VAC (UK; not shown)
	254187	Power cord, 240 VAC (Australia; not shown)
31	•603153	Input/output signal cable
32	•601054	20-pin jumper cable
33	•603279	Vortexer cable assembly (not visible)

Photo Reference Number	Part Number	Description
34	•601379 200023	Power switch assembly Rocker switch, on-off
35	603544	Cartridge, version 1.01
36	603073	Conductivity PC Board
37	603083	Conductivity cell assembly
38	603079 200591	Light socket assembly, mini-bayonet Light bulb, 28V, bayonet
<b>Miscellaneous</b>		
39	401770	In-line filter assembly (20/pkg; used in 5 places)
40A	603132	Cap assembly, 1-gal reagent bottle
40B	603133	Parallel cap assembly (dual bottles)
	004498	Gasket
	200270	Inlet filter, 40 $\mu$ m
	0392-0003	Ext. ret. ring pliers (tool for gasket replacement)
41	140041	Safety carrier (used in 2 places)
42	002170	Rack, 1-gal bottle carrier (2 pieces)
43	602544	Cap assembly, waste bottle
44	140040	Jerrican, 2-1/2 gal, polyethylene
45	110130	T-fitting, 1/4-28, Teflon
46	000878 110019	Manifold, 6-port Plug, 1/4-28, Teflon
47	110131	Cross-fitting, 1/4-28, Teflon
48	004864	Bulkhead fitting for resin sampler with safety cover
49	110087	Plug, port, 1/8 T, brass
50	225005	Parflex™ tubing, 1/8-in. o.d.
51	002480	Cartridge bucket