

207773

REPLACEMENT PARTS MANUAL

GAS FIRED HORIZONTAL FURNACE MODELS SG AND ESG SERIES

Manual 2110-858

Revision B

Date 5-15-90

Supersedes 5-11-90

* GENERAL NOTES *

*Revised and/or additional pages may be issued from time to time.
*A complete and current manual consists of pages dated as shown in the following index.

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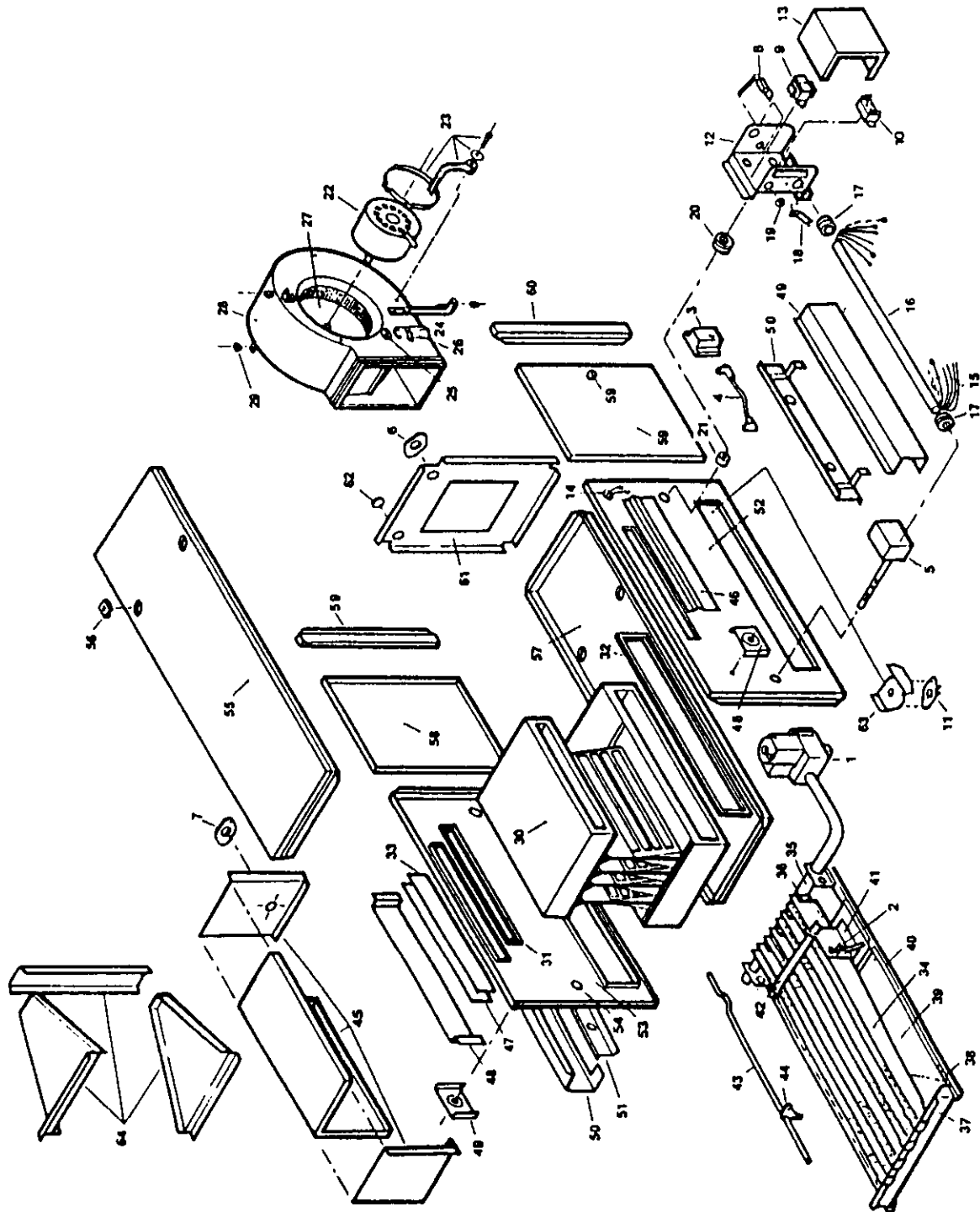
*** IMPORTANT ***

Contact the installing and/or local Bard distributor for all parts requirements. Make sure you have the complete model and serial number available from the unit rating plate.

BARD MANUFACTURING COMPANY

BRYAN, OHIO 43506

FUNCTIONAL COMPONENTS



Date: 2-19-90
Supersedes:

FUNCTIONAL COMPONENTS

Dwg. No.	Part No.	Description	S G 0 4 0 D 3 6 B	S G 0 5 0 D 3 6 B	S G 0 6 0 D 4 8 B	S G 0 7 5 D 4 2 A	S G 0 7 5 D 4 8 B	S G 0 8 0 D 6 0 B	S G 1 0 0 D 4 0 A	S G 1 0 0 D 6 0 A	S G 1 0 0 D 6 0 B	S G 1 2 0 D 6 0 A	S G 1 4 0 D 6 0 B	
1	9043-030	MH Gas Valve VR8200	X	X	X	X	X	X	X	X	X	X	X	
2	9043-027	MH Pilot Burner Q314 Nat.	X	X	X	X	X	X	X	X	X	X	X	
2	9043-028	MH Thermocouple Q309 24"	X	X	X	X	X	X	X	X	X	X	X	
5	9043-062	Fan & Limit L4064T1848 8"	X	X	X	X	X	X	X	X	X	X	X	
6	9043-054	Auxiliary Limit Open 160 Close 130	X	X	X	X	X	X	X	X	X	X	X	
7	9043-100	Vent Limit Switch Kit	X	X	X	X	X	X	X	X	X	X	X	
8	9043-055	Door Interlock Switch	X	X	X	X	X	X	X	X	X	X	X	
9	9043-056	Transformer 40VA	X	X	X	X	X	X	X	X	X	X	X	
10	9043-052	Blower Relay	X	X	X	X	X	X	X	X	X	X	X	
11	9043-120	Burner Limit Switch	X	X	X	X	X	X	X	X	X	X	X	
22	9043-047	Motor 1/4 hp 3-Speed 115V	X	X										
22	9043-048	Motor 1/3 hp 3-Speed 115V			X		X			X				
22	9043-049	Motor 1/2 hp 3-Speed 115V						X			X	X	X	
22	9043-066	Motor 1/6 hp 1-Speed 115V				X								
22	9043-067	Motor 1/5 hp 1-Speed 115V						X						
22	9043-124	Motor 1/4 hp 3-Speed 115V				X								
23	9043-050	Motor Mounting Kit	X	X										
23	9043-051	Motor Mounting Kit			X	X	X	X	X	X	X	X	X	
24	8552-004	Capacitor 7.5 370V	X	X	X		X	X		X				
24	8552-005	Capacitor 10 MFD 370V						X			X	X	X	
27	9043-039	Blower Wheel 10-4	X	X										
27	9043-040	Blower Wheel 10-6				X	X							
27	9043-041	Blower Wheel 10-8			X			X	X	X				
27	9043-042	Blower Wheel 10-10						X			X	X	X	
28	9043-046	Blower Housing 10-4	X	X										
28	9043-043	Blower Housing 10-6				X	X							
28	9043-044	Blower Housing 10-8			X			X	X	X				
28	9043-045	Blower Housing 10-10						X			X	X	X	
30	*9043-057	Heat Exchanger 2 Section	X	X										
30	*9043-058	Heat Exchanger 3 Section				X	X							
30	*9043-059	Heat Exchanger 4 Section						X	X	X				
30	*9043-060	Heat Exchanger 5 Section										X		
30	*9043-061	Heat Exchanger 6 Section											X	
30	*9043-068	Heat Exchanger 3 Section			X		X							
30	*9043-069	Heat Exchanger 4 Section								X				
34	9043-022	Main Burner	2	2	3	3	3	3	4	4	4	4	5	6

*Supply model number and serial model when ordering parts.

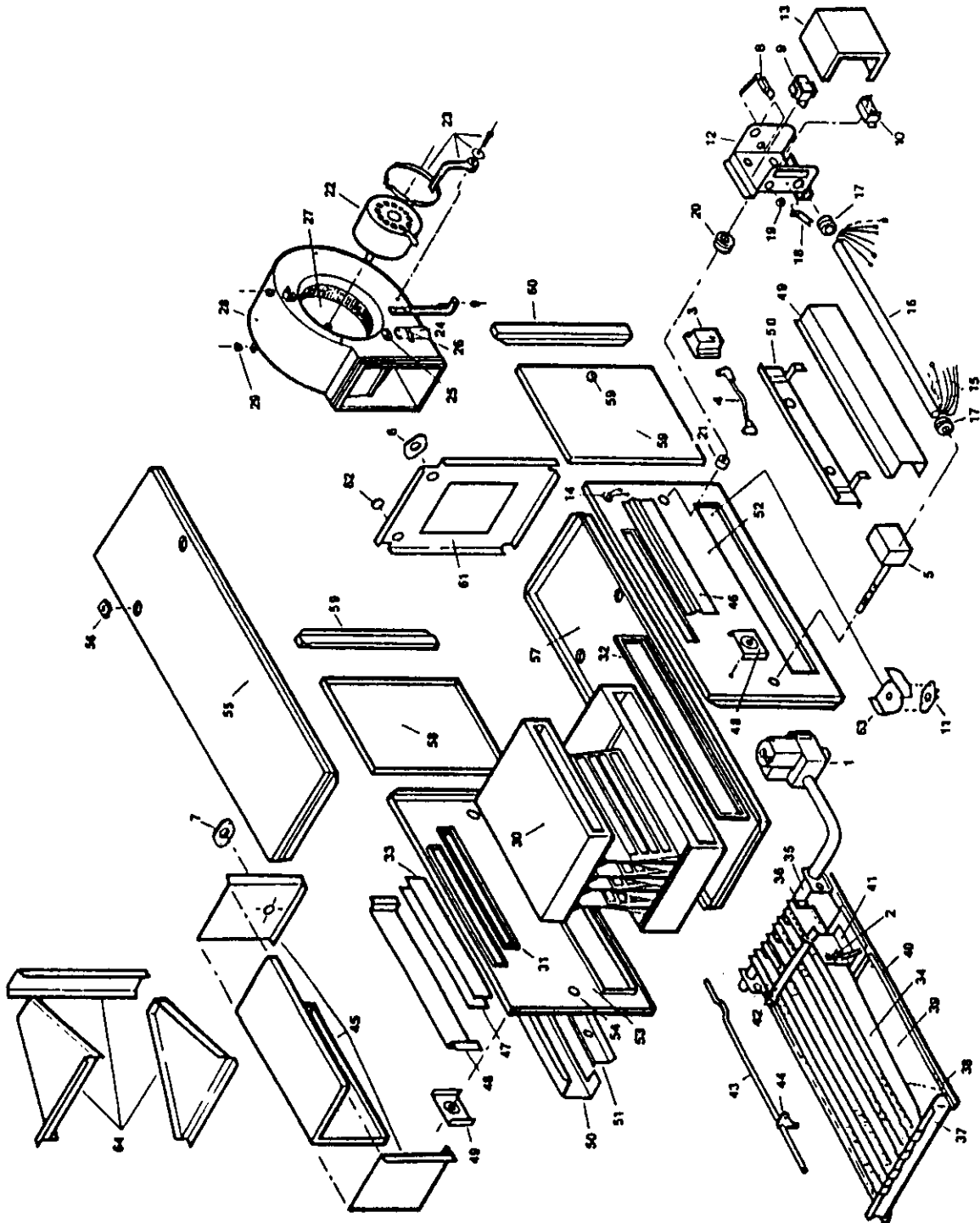
Date: 5-15-90
Supersedes: 5-11-90

FUNCTIONAL COMPONENTS

Dwg. No.	Part No.	Description	S G 0 4 0 D 3 6 B	S G 0 5 0 D 3 6 B	S G 0 6 0 D 4 8 B	S G 0 7 5 D 4 2 A	S G 0 7 5 D 4 8 A	S G 0 8 0 D 6 0 B	S G 1 0 0 D 0 0 A	S G 1 1 0 D 4 8 A	S G 1 1 0 D 6 0 B	S G 1 2 0 D 6 0 A	S G 1 4 0 D 6 0 B
35	9043-034	Manifold Assembly (Without Orifice)	x	x									
35	9043-035	Manifold Assembly (Without Orifice)				x	x						
35	9043-036	Manifold Assembly (Without Orifice)						x			x		
35	9043-037	Manifold Assembly (Without Orifice)										x	
35	9043-038	Manifold Assembly (Without Orifice)											x
35	9043-064	Manifold Assembly (Without Orifice)						x	x				
35	9043-065	Manifold Assembly (Without Orifice)			x		x						
36	9043-023	Nat. Burner Orifice 2.40 mm		2		3	3	3		4	4	4	
36	9043-024	Nat. Burner Orifice 2.35 mm										5	
36	9043-063	Nat. Burner Orifice 2.15 mm	2		3			4					
36	9043-123	Nat. Burner Orifice 2.30 mm											6
42	9043-001	Crossover Angle	x	x									
42	9043-002	Crossover Angle			x	x	x	x					
42	9043-003	Crossover Angle						x	x	x	x		
42	9043-004	Crossover Angle										x	
42	9043-005	Crossover Angle											x
45	9043-006	Draft Diverter Assembly			x	x	x	x					
45	9043-007	Draft Diverter Assembly						x	x	x	x		
45	9043-008	Draft Diverter Assembly										x	
45	9043-009	Draft Diverter Assembly											x
45	9043-104	Draft Diverter Assembly	x	x									
63	9043-121	Burner Limit Switch Bracket	x	x	x	x	x	x	x	x	x	x	x

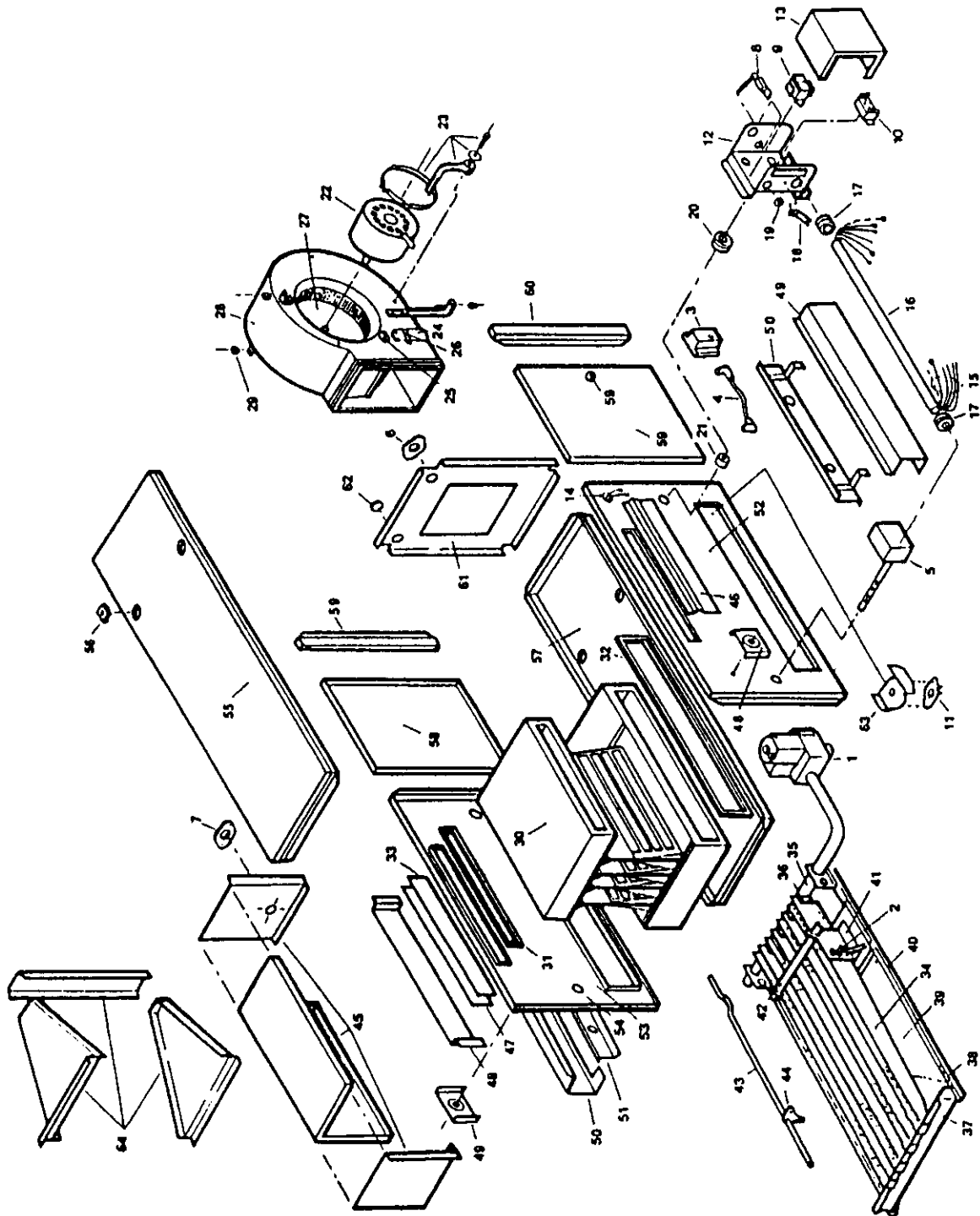
Date: 5-11-90
Supersedes: 2-19-90

FUNCTIONAL COMPONENTS



Date: 2-19-90
Supersedes:

FUNCTIONAL COMPONENTS



Date: 2-19-90
Supersedes:

FUNCTIONAL COMPONENTS

Dwg. No.	Part No.	Description	E S G O 4 0 D 3 6 C	E S G O 4 0 D 3 6 C	E S G O 5 D 4 0 2 A	E S G O 5 D 4 0 2 A	E S G O 5 D 4 0 2 A	E S G O 5 D 4 0 2 A	E S G O 5 D 4 0 2 A	E S G O 5 D 4 0 2 A	E S G O 5 D 4 0 2 A	E S G O 5 D 4 0 2 A	E S G O 5 D 4 0 2 A	E S G O 5 D 4 0 2 A	E S G O 5 D 4 0 2 A
1	9043-071	MH Gas Valve VR8204	X	X	X	X	X	X	X	X	X	X	X	X	X
2	9043-070	MH Pilot Burner Q345 Nat.	X	X	X	X	X	X	X	X	X	X	X	X	X
3	5651-073	Ignition Module S8600H	X	X	X	X	X	X	X	X	X	X	X	X	X
4	9043-119	Ignition Cable 25"	X	X	X	X	X	X	X	X	X	X	X	X	X
5	9043-062	Fan & Limit L4064T1848 8"	X	X	X	X	X	X	X	X	X	X	X	X	X
6	9043-054	Auxiliary Limit Open 160 Close 130	X	X	X	X	X	X	X	X	X	X	X	X	X
7	9043-100	Vent Limit Switch Kit	X	X	X	X	X	X	X	X	X	X	X	X	X
8	9043-055	Door Interlock Switch	X	X	X	X	X	X	X	X	X	X	X	X	X
9	9043-056	Transformer 40VA	X	X	X	X	X	X	X	X	X	X	X	X	X
10	9043-052	Blower Relay	X	X	X	X	X	X	X	X	X	X	X	X	X
11	9043-120	Burner Limit Switch	X	X	X	X	X	X	X	X	X	X	X	X	X
22	9043-047	Motor 1/4 hp 3-Speed 115V	X	X											
22	9043-048	Motor 1/3 hp 3-Speed 115V			X			X				X			
22	9043-049	Motor 1/2 hp 3-Speed 115V						X				X	X	X	
22	9043-066	Motor 1/6 hp 1-Speed 115V				X									
22	9043-067	Motor 1/5 hp 1-Speed 115V							X						
22	9043-124	Motor 1/4 hp 3-Speed 115V				X									
23	9043-050	Motor Mounting Kit	X	X											
23	9043-051	Motor Mounting Kit			X	X	X	X	X	X	X	X	X	X	X
24	8552-004	Capacitor 7.5 370V	X	X	X		X	X			X		X	X	X
24	8552-005	Capacitor 10 MFD 370V						X				X	X	X	
27	9043-039	Blower Wheel 10-4	X	X											
27	9043-040	Blower Wheel 10-6			X	X									
27	9043-041	Blower Wheel 10-8			X		X		X	X	X				
27	9043-042	Blower Wheel 10-10						X				X	X	X	
28	9043-043	Blower Housing 10-6			X	X									
28	9043-044	Blower Housing 10-8			X		X		X	X					
28	9043-045	Blower Housing 10-10					X					X	X	X	
28	9043-046	Blower Housing 10-4	X	X											
30	*9043-057	Heat Exchanger 2 Section	X	X											
30	*9043-058	Heat Exchanger 3 Section			X	X									
30	*9043-059	Heat Exchanger 4 Section							X	X					
30	*9043-060	Heat Exchanger 5 Section											X		
30	*9043-061	Heat Exchanger 6 Section												X	
30	*9043-068	Heat Exchanger 3 Section			X		X								
30	*9043-069	Heat Exchanger 4 Section						X				X			
34	9043-022	Main Burner	2	2	3	3	3	3	4	4	4	4	4	5	6

*Supply model number and serial model when ordering parts.

Date: 5-15-90
Supersedes: 5-11-90

FUNCTIONAL COMPONENTS

Dwg. No.	Part No.	Description	E S G O 4 0 D 3 6 C	E S G O 4 0 D 3 6 C	E S G O 6 0 D 4 8 C	E S G O 7 5 D 0 2 A	E S G O 7 5 D 4 8 C	E S G O 8 0 D 6 0 C	E S G 1 0 D 0 0 A	E S G 1 0 D 4 8 C	E S G 1 0 D 6 0 C	E S G 1 2 D 6 0 A	E S G 1 4 D 6 0 B
35	9043-034	Manifold Assenbly (Without Orifice)	x	x									
35	9043-035	Manifold Assenbly (Without Orifice)				x	x						
35	9043-036	Manifold Assenbly (Without Orifice)						x				x	
35	9043-037	Manifold Assenbly (Without Orifice)											x
35	9043-038	Manifold Assenbly (Without Orifice)											x
35	9043-064	Manifold Assenbly (Without Orifice)							x	x			
35	9043-065	Manifold Assenbly (Without Orifice)			x		x						
36	9043-023	Nat. Burner Orifice 2.40 mm		2		3	3	3		4	4	4	
36	9043-024	Nat. Burner Orifice 2.35 mm										5	
36	9043-063	Nat. Burner Orifice 2.15 mm	2		3			4					
36	9043-123	Nat. Burner Orifice 2.30 mm											6
42	9043-001	Crossover Angle	x	x									
42	9043-002	Crossover Angle			x	x	x	x					
42	9043-003	Crossover Angle						x	x	x	x		
42	9043-004	Crossover Angle										x	
42	9043-005	Crossover Angle											x
45	9043-006	Draft Diverter Assenbly			x	x	x	x					
45	9043-007	Draft Diverter Assenbly						x	x	x	x		
45	9043-008	Draft Diverter Assenbly										x	
45	9043-009	Draft Diverter Assenbly											x
45	9043-104	Draft Diverter Assenbly	x	x									
63	9043-121	Burner Limit Switch Bracket	x	x	x	x	x	x	x	x	x	x	x

Date: 5-11-90
Supersedes: 2-19-90