REPLACEMENT PARTS MANUAL

H IGH ECONOMY GAS FIRED FURNACES MODELS IL85D42A, IL115D48A, IL145D60A

Manual 2110-855 Revision E Date 3-23-92 Supersedes 8-30-91

*Revised and/or additional pages may be issued from time to time.

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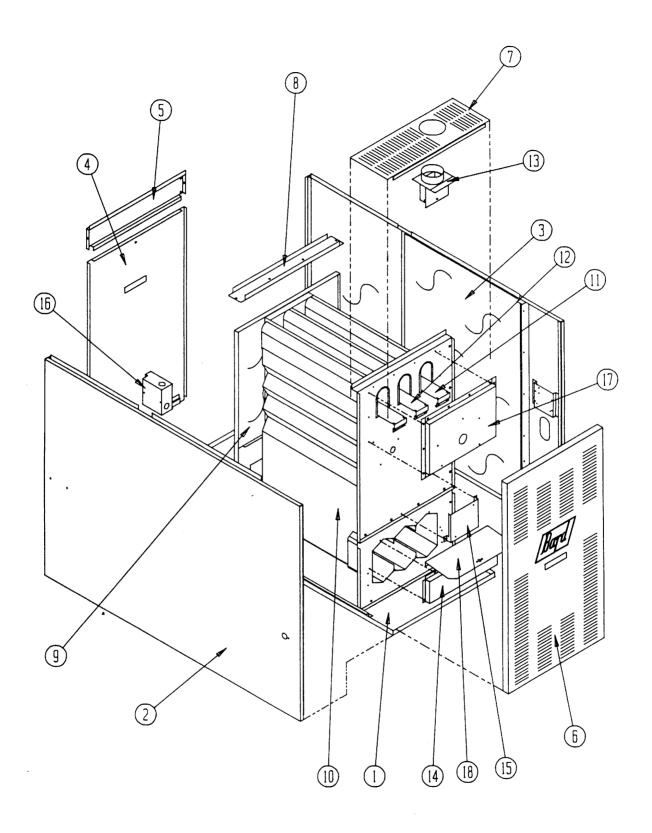
Contact the installing and/or local Bard distributor for all parts requirements. Make sure you have the complete model and serial number available from the unit rating plate.

BARDMANUFACTURING COMPANY

BRYAN, OHIO 43506

^{*}A complete and current manual consists of pages dated as shown in the following index.

CABINET COMPONENTS



IL85D42A model shown above

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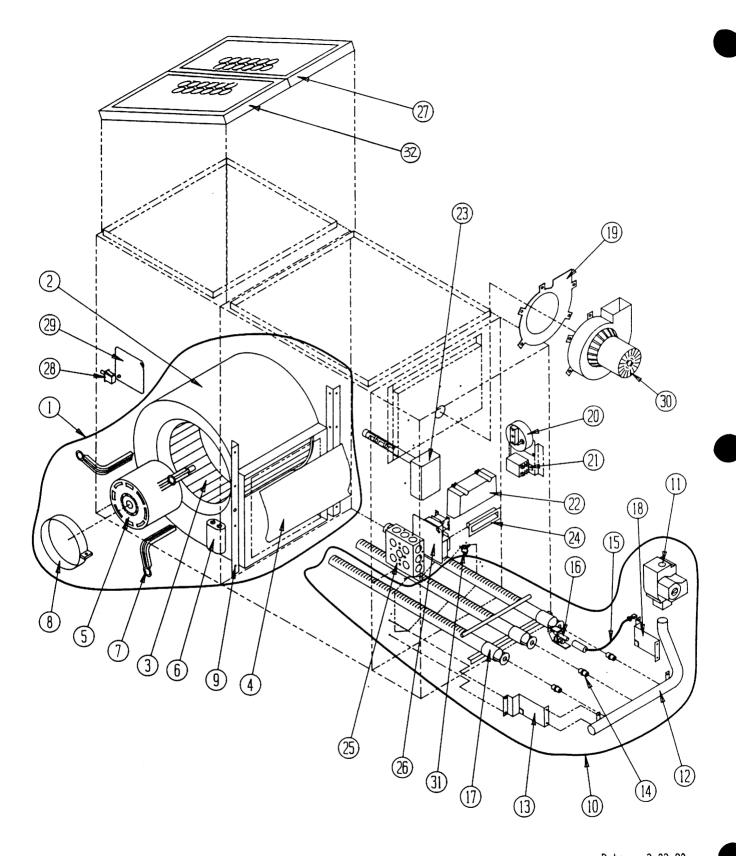
CABINET COMPONENTS

Dwg. Part No. Description S 1 8 1 1 1 1 1 1 1 1	ī ī	ı		I	I	I
Dwg. Part No. Description S					- 1	T
Dwg. Part No. Description S 1 2 4 4 D 1 2 4 4 D 1 2 4 4 D 1 2 4 4 D 1 2 4 4 D 1 2 4 4 D 1 2 4 4 D 1 2 4 4 A 8 A A A A A A A A				_	1	1
No. No.			Describbios	- 1	- 1	4
1 127-099 Base	1 1	Part No.	vescr1pc1on	1	- 1	- 1
1 127-099	No.			_	- 1	D I
1 127-099 Base				- 1	- 1	_
1 127-099 Base				-	- 1	6
1 127-099 Base				A	- 1	0
1 127-100 Base					A	A
1 127-101 Base	_	1 1		Х		
2 501-250	-	l .			Х	
3 501-251 Right Side Assembly X X 553-092 Blower Door Assembly X X 553-094 Blower Door Assembly X 553-096 Blower Door Assembly X 553-098 Blower Door Assembly X 553-098 Blower Back X 553-098 Burner Door X 553-098 Burner Door X 553-098 Burner Door X 553-098 Burner Door X 553-097 Burner Doo						X
S53-092 Blower Door Assembly X S53-094 Blower Door Assembly X S53-094 Blower Door Assembly X S53-096 Blower Door Assembly X S53-098 Burner Door X S53-093 Burner Door X S53-095 Burner Door X S53-095 Burner Door X S53-097 S53-097 Burner Door X X X X S53-097 Burner Door X X X X X S53-097 Burner Door X X X X S53-097 Burner Door X X X X S53-097 Burner Door X X X S53-097 Burner Door X X X X X S53-097 Burner Door X X X X X X X X X						X
Society	+				X	X
108-042 Upper Back	1	1 1	-	Х		
S		1			Х	ا ا
S	-					X
5	1	1 1		X		
6	1		••		X	
Secondary Air Baffle Secondary Air Baffle	+				ļ	Х
6 152-097 Burner Door 7 106-041 Top Fill x 7 106-042 Top Fill x 7 106-079 Top Fill x 8 164-527 Top Channel x 8 164-528 Top Channel x 9 521-212 Blower Partition x 9 521-213 Blower Partition x 9 521-214 Blower Partition x 10 171-142 Heat Exchanger Assembly x 10 171-155 Heat Exchanger Assembly x 11 168-002 Internal Flue Baffle Outside 3 2 12 168-013 Internal Flue Baffle Inside 2 2 13 913-0002 Flue Stack Assembly x x 14 168-003 Secondary Air Baffle x x 14 168-010 Secondary Air Baffle x x 14 168-018 Secondary Air Baffle	1			Х		
Top Top	1				X	
Top Top	+			ļ	-	X
7	1	1		X		
8 164-527 Top Channel x 8 164-528 Top Channel x 9 521-212 Blower Partition x 9 521-213 Blower Partition x 10 171-142 Heat Exchanger Assembly x 10 171-147 Heat Exchanger Assembly x 11 168-002 Internal Flue Baffle Outside 3 2 12 168-013 Internal Flue Baffle Inside 2 13 913-0002 Flue Stack Assembly x 14 168-008 Secondary Air Baffle x 14 168-010 Secondary Air Baffle x 14 168-018 Secondary Air Baffle x 15 112-099 Iqnition Module Bracket x x 16 116-084 Rear Junction Box x x 17 913-0006 Collector Box Assembly x 17 913-0008 Collector Box Assembly x 18 140-160 Switch Support x		I	•		X	
8 164-528 Top Channel X 9 521-212 Blower Partition X 9 521-213 Blower Partition X 10 171-142 Heat Exchanger Assembly X 10 171-147 Heat Exchanger Assembly X 10 171-155 Heat Exchanger Assembly X 11 168-002 Internal Flue Baffle Outside 3 2 12 168-013 Internal Flue Baffle Inside 2 13 913-0002 Flue Stack Assembly X 14 168-003 Secondary Air Baffle X 14 168-008 Secondary Air Baffle X 15 112-099 Iqnition Module Bracket X X 16 116-084 Rear Junction Box X X 17 913-0006 Collector Box Assembly X 17 913-0008 Collector Box Assembly X 18 140-160 Switch Support X	+			├		X
8 164-529 Top Channel 9 521-212 Blower Partition X 9 521-213 Blower Partition X 10 171-142 Heat Exchanger Assembly X 10 171-147 Heat Exchanger Assembly X 10 171-155 Heat Exchanger Assembly X 11 168-002 Internal Flue Baffle Outside 3 2 12 168-013 Internal Flue Baffle Inside 2 13 913-0002 Flue Stack Assembly X 14 168-003 Secondary Air Baffle X 14 168-010 Secondary Air Baffle X 14 168-018 Secondary Air Baffle X 15 112-099 Iqnition Module Bracket X X 16 116-084 Rear Junction Box X X 17 913-0006 Collector Box Assembly X 17 913-0008 Collector Box Assembly X 18 140-160 Switch Support X	8	1	•	X		
9 521-212 Blower Partition x 9 521-214 Blower Partition x 10 171-142 Heat Exchanger Assembly x 10 171-147 Heat Exchanger Assembly x 10 171-155 Heat Exchanger Assembly x 11 168-002 Internal Flue Baffle Outside 3 2 12 168-013 Internal Flue Baffle Inside 2 13 913-0002 Flue Stack Assembly x 14 168-003 Secondary Air Baffle x 14 168-010 Secondary Air Baffle x 14 168-018 Secondary Air Baffle x 15 112-099 Iqnition Module Bracket x x 16 116-084 Rear Junction Box x x 17 913-0006 Collector Box Assembly x 17 913-0008 Collector Box Assembly x 18 140-160 Switch Support x		1			Х	
9 521-213 Blower Partition	8	16 4 -529		_	<u> </u>	X
9 521-214 Blower Partition x 10 171-142 Heat Exchanger Assembly x 10 171-147 Heat Exchanger Assembly x 10 171-155 Heat Exchanger Assembly x 11 168-002 Internal Flue Baffle Outside 3 2 12 168-013 Internal Flue Baffle Inside 2 13 913-0002 Flue Stack Assembly x 14 168-008 Secondary Air Baffle x 14 168-010 Secondary Air Baffle x 14 168-018 Secondary Air Baffle x 15 112-099 Ignition Module Bracket x x 16 116-084 Rear Junction Box x x 17 913-0006 Collector Box Assembly x 17 913-0008 Collector Box Assembly x 18 140-160 Switch Support x	9	521-212	Blower Partition	Х		
10		521-213	Blower Partition		Х	
10	9	521-214	Blower Partition	<u> </u>	ļ	Х
10	10	171-142	_	X		
11 168-002 Internal Flue Baffle Outside 3 2 12 168-013 Internal Flue Baffle Inside 2 13 913-0002 Flue Stack Assembly	10	171-147			X	
12 168-013 Internal Flue Baffle Inside 2	10	171-155		1	ļ	X
13 913-0002 Flue Stack Assembly X		168-002		13	+	4
13 913-0004 Flue Stack Assembly X 14 168-008 Secondary Air Baffle X 14 168-010 Secondary Air Baffle X 14 168-018 Secondary Air Baffle X 15 112-099 Iqnition Module Bracket X X 16 116-084 Rear Junction Box X X 17 913-0006 Collector Box Assembly X 17 913-0007 Collector Box Assembly X 17 913-0008 Collector Box Assembly X 18 140-160 Switch Support X			· · · · · · · · · · · · · · ·	₩	 2	1
14 168-008 Secondary Air Baffle X 14 168-010 Secondary Air Baffle X 14 168-018 Secondary Air Baffle X 15 112-099 Iqnition Module Bracket X X 16 116-084 Rear Junction Box X X 17 913-0006 Collector Box Assembly X 17 913-0007 Collector Box Assembly X 17 913-0008 Collector Box Assembly X 18 140-160 Switch Support X		1		X		
14 168-010 Secondary Air Baffle x 14 168-018 Secondary Air Baffle x 15 112-099 Iqnition Module Bracket x x 16 116-084 Rear Junction Box x x 17 913-0006 Collector Box Assembly x 17 913-0007 Collector Box Assembly x 17 913-0008 Collector Box Assembly x 18 140-160 Switch Support x	+			-	X	X
14 168-018 Secondary Air Baffle 15 112-099 Iqnition Module Bracket X X 16 116-084 Rear Junction Box X X 17 913-0006 Collector Box Assembly X 17 913-0007 Collector Box Assembly X 17 913-0008 Collector Box Assembly X 18 140-160 Switch Support X		1	4	Х		1
15 112-099 Iqnition Module Bracket					X	1
16 116-084 Rear Junction Box x x 17 913-0006 Collector Box Assembly x 17 913-0007 Collector Box Assembly x 17 913-0008 Collector Box Assembly x 18 140-160 Switch Support x				-		X
17 913-0006 Collector Box Assembly X				1		X
17 913-0007 Collector Box Assembly X				1	X	<u> </u>
17 913-0008 Collector Box Assembly		3	,	X		
18 140-160 Switch Support X	17	913-0007	<u>-</u>		X	
	17	913-0008		1	_	X
18 140-161 Switch Support X	18	140-160	1	X		
	18	140-161			X	
18 140-162 Switch Support	18	140-162	Switch Support			Х

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FUNCTIONAL COMPONENTS



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FUNCTIONAL COMPONENTS

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				L	L	L
"				8	1	1
	Dwg.	Part No.	Description	5	1	4
	No.			D	5	5
				4	D	D
				2	4	6
				A	8	0
					A	A
	1	900- 103	Blower Assembly	X		
1	1	900-104	Blower Assembly		X	
1	1	900-054	Blower Assembly	_		Х
	2	151-07 3	Blower Housing Assembly	х		
1	2	151-074	Blower Housing Assembly		X	
-	3	(1)5152-050	Blower Housing Assembly			х
		5152-014	Blower Wheel	Х		
	3	5152-059			Х	
1	3	5152-053				X
	4	144-128	Diffuser	Х		
	4	1 44 -129	Diffuser		X	
1	4	(1)N/A	Diffuser			Х
	5	8105-009	Motor	X.		
ı	5	8106-018	Motor		Х	
1	5	8107-004	Motor			Х
١	6	8552-002	Capacitor	Х		
1	6	8552-004	Capacitor	L	X	<u> </u>
	7	8200-034	Motor Mount Arm	3	3	
]	7	8200-03 5	Motor Mount Arm			3
1	8	8200-033	Motor Mount Band	Х	X	X
1	9	104-794	Blower Angle	2	2	2
١	10	901-0050	Burner Assembly	Х		
ı	10	901-0061	Burner Assembly		X	
1	10	901-0076	Burner Assembly			X
1	11	5651-062	Gas Valve	Х	X	Х
	12	5818-020	Manifold 3 Section	Х		
١	12	5818-021	Manifold 4 Section		X	
1	12	5818-022	Manifold 5 Section			Х
1	13	1127095	Left Manifold Bracket	Х	X	Х
1	14	9010-010	Gas Orifice #38	3	4	-5
1	15	8600-009	Ignition Cable	Х	X	Х
1	16	8620-038	Pilot Burner Assembly	X	X	Х
	17	9010-037	Burner 3 Section	х		
	17	9010-038	Burner 4 Section		X	
1	17	9010-039	Burner 5 Section			Х

(1)	Dwg.	No.	2	part	No.	5152	-050	includes	housing,	diffuser,
	and h	olowe	er	wheel	pa	rt No	. 515	5 2-05 3.		

1			I	I	I	
			Г	L	L	
			8	1	1	i
Dwg.	Part No.	Description	5	1	4	
No.			D	5	5	
			4	D	D	
			2	4	6	
			A	8	0	
				A	A	
18	112 X09 5	Right Manifold Bracket	Х	Х	Х	
19	1921-019	IDB Gasket	Х	Х	Х	
20	8406-051	Pressure Switch	Х	Х	Х	
21	8201-048	DPST Relay 24V Coil	Х	Х	Х	
22	5651-093	Ignition Module	х	Х	Х	
23	8402-043	Fan/Limit Control	х	Х		
23	8402-042	Fan/Limit Control			. х	
24	1171-025	Door Pull	Х	Х	Х	
25	8614-001	Front Junction Box	х	Х	Х	
26	8201-006	Fan Center	х	Х	х	
27	7003-023	Permanent Filter	2			l
27	7003-016	Permanent Filter		Х	2	l
28	8406-013	Door Switch	Х	Х		
28	8406-047	Door Switch			Х	
29	8614-029	Cover Plate	Х	Х	Х	
30	8109-001	Induced Draft Blower	Х	Х	Х	I
31	8406-037	Flame/Rollout Switch	Х			
31	8406-038	Flame Rollout Switch		Х	Х	l
32	7003-021	Permanent Filter		Х		I
	4046-120	Wiring Diagram	Х	X	Х	
	8620-040	Pilot Gas Tube W/Fitting	Х	Х	Х	1

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