### Replacement Parts Manual

# TSF-80 Downflow/Horizontal Gas Furnace

Models: TDH042, TDH063, TDH084, TDH105, TDH126

#### **General Notes**

# 9 Revised and/or additional pages may be issued from time to time,

9 A complete and current manual consists of pages shown in the following contents section.

#### **Important**

9 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 plates.

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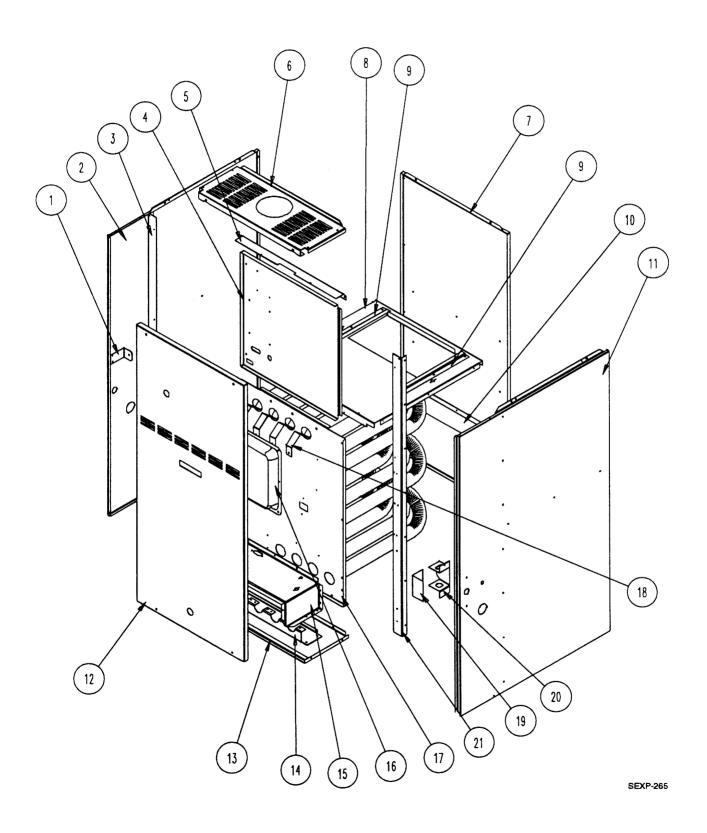
BARD MANUFACTURING COMPANY Bryan, Ohio 43506

Since 1914...Moving ahead, just as planned.

Manual: 211 O-874

Rev.

Date: 07-18-97



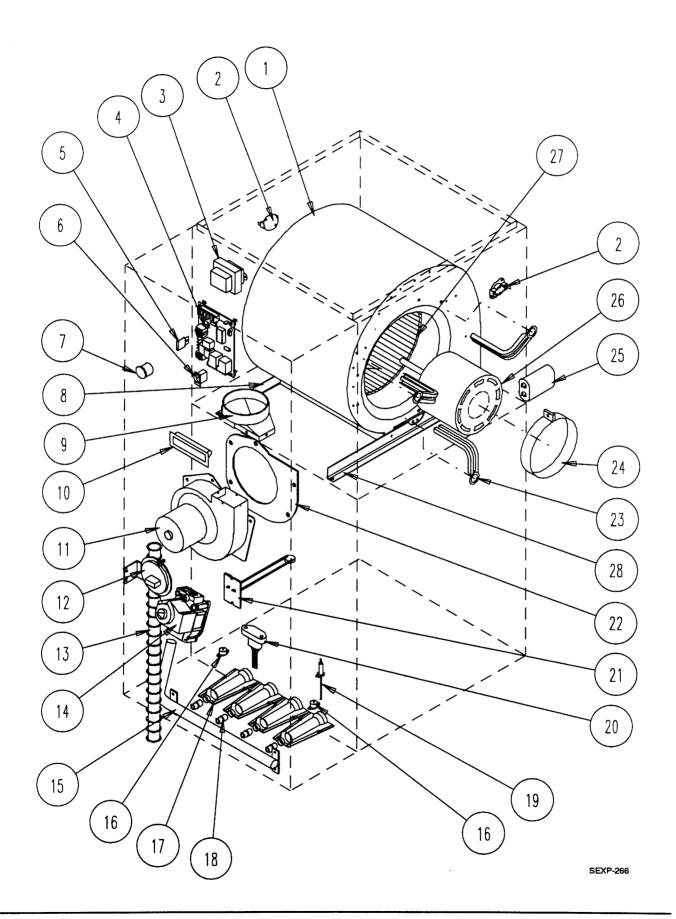
## **Cabinet Components**

Drawing				TDH042	TDH063	TDH084	TDH105	TDH126
No.	Part No.	Description		F	<u> </u>	_ <u> </u>	=	<u> </u>
1	141-243	Wire Channel Support		Х	X	X	Х	X
2	5101-335-X	Left Side Assembly		Х	X	X	Х	Х
3	105Y993	Left Side Angle		Х	X	X	X	X
4	5153-274	Blower Door Assembly		Х			1	
4	5153-275	Blower Door Assembly			X		1	
4	5153-276	Blower Door Assembly				X		
4	5153-277	Blower Door Assembly					Ιx	
4	5153-278	Blower Door Assembly						X
5	105-997	Blower Door Angle		Х				
5	105-998	Blower Door Angle			X			
5	105-999	Blower Door Angle				Ιx		
5	105-1000	Blower Door Angle				``	X	1
5	105-1001	Blower Door Angle					``	X
6	5107-197-X	Top Fill		X	<b> </b>	<del> </del>		<del>  ^`</del>
6	5107-198-X	Top Fill		- 1	Ιx			
6	5107-199-X	Top Fill			^	Ιx		
6	5107-200-X	Top Fill			ł	^	X	
6	5107-201-X	Top Fill					^	x
7	5109-134-X	Back Assembly		Х	<del> </del>	<u> </u>	├	<del>  ^  </del>
7	5109-135-X	Back Assembly		^	x			1
7	5109-136-X	Back Assembly			^	x		
7	5109-137-X	Back Assembly				^		1
7	5109-138-X	Back Assembly					X	
8	5127-270	Blower Base Assembly		X		<b>-</b>	<del> </del>	L X
8	5127-271	Blower Base Assembly		^				
8	5127-271	Blower Base Assembly			X			
8	5127-272	Blower Base Assembly				X	١.,	
8	5127-273	•					X	
9	102-412	Blower Base Assembly			ļ.,,			X
10	135-158	Blower Base Offset Air Baffle		X	X	Х	X	X
10	135-159		1	X			İ	
10	135-160	Air Baffle			Х			
10		Air Baffle				Х		
10	135-161 135-162	Air Baffle	ľ				X	
11		Air Baffle						X
12	5101-336-X	Right Side Assembly		X	Х	Х	Х	Х
	5153-279-X	Vestibule Door Assembly	İ	X				1 1
12	5153-280-X	Vestibule Door Assembly	l		X		ĺ	1 1
12	5153-281-X	Vestibule Door Assembly				Х		i i
12	5153-282-X	Vestibule Door Assembly					Х	i I
12	5153-283-X	Vestibule Door Assembly						X
13	107-189	Bottom Fill		X				
13	107-190	Bottom Fill			Х			
13	107-191	Bottom Fill				Х	ŀ	
13	107-192	Bottom Fill	ļ				Х	
13	107-193	Bottom Fill			L			x
14	162-033	Burner Bracket		Х				
14	162-035	Burner Bracket			Х			
14	162-031	Burner Bracket	- 1			Х		
14	162-037	Burner Bracket					х	
14	162-039	Burner Bracket					``	x

## **Cabinet Components**

D				TDH042	FDH063	TDH084	TDH105	TDH126
Drawing No.	Part No.	Description		<del> </del>	<u> </u>	F	<u> </u>	<u> </u>
15	162-034	Burner Box		X				
15	162-036	Burner Box			Х			i
15	162-032	Burner Box				Х		
15	162-038	Burner Box	}				Х	
15	162-040	Burner Box						X
16	S168-113	Collector Box Assembly		Х	.,			
16	S168-114	Collector Box Assembly			Х	.,		
16	S168-115	Collector Box Assembly				X	١.,	
16	S168-116	Collector Box Assembly					Х	
16	S168-117	Collector Box Assembly						X
17	S170-235	Heat Exchanger Assembly		Х		l		
17	S170-236	Heat Exchanger Assembly			X		ļ	
17	S170-237	Heat Exchanger Assembly				X	١.,	
17	S170-238	Heat Exchanger Assembly					X	
17	S170-239	Heat Exchanger Assembly			<u></u>	ļ	<u> </u>	X
18	7090-012	Flue Baffle		2	3	4	5	6
19	132-107	Junction Box Cover		X	X	X	X	X
20	117-194	Junction Box		X	X	X	X	X
21	105X993	Right Side Angle		X	X	X	X	X
NS	5452-008-1200	Pressure Switch Tubing		X	X	X	X	X

NS Not Shown



Drawing No.	Part No.	Describetion	TDH042	TDH063	TDH084	TDH105	TDH126
1	151-109	Description		<u> </u>	<u> </u>		<u> </u>
1 1	151-109	Blower Housing Assembly	X	١			
1	151-082	Blower Housing Assembly		X		l	
1 1	5152-050 ②	Blower Housing Assembly			X		
2		Blower Housing Assembly				X	X
3	8402-044	Upper Limit	2	2	2	2	2
4	8407-045	Transformer 120/24V 40VA	X	Х	Х	Х	X
5	5651-144	Integrated Furnace Control	X	Х	Х	Х	X
	8614-045	3 Amp Fuse	X	X	Х	Х	Х
6	8406-076	Door Switch	X	Х	Х	Х	Х
7	8611-075	Clear Sight Glass	X	Х	X	X	X
8	104Y951	Left Blower Angle	X	Х	Х	X	X
9	5809-013	3" Inducer Transition	X				
9	5809-014	4" Inducer Transition		Х	Х	Х	X
10	1171-025	Door Pull	X	Х	Х	X	X
11	8109-010	Induced Draft Blower	X	X	X	X	X
12	8406-089	Pressure Switch .25" Setpoint ①	X				<u> </u>
12	8406-090	Pressure Switch .30" Setpoint ①		х			
12	8406-091	Pressure Switch .35" Setpoint ①			Х	x	x
13	8611-089-1400	Plastic Wire Channel	X	Х	X	X	X
14	5651-136	Gas Valve	X	X	X	X	X
15	5818-033	Gas Manifold	X				<u> </u>
15	5818-034	Gas Manifold		Х			
15	5818-035	Gas Manifold		``	Х		
15	5818-036	Gas Manifold	1		^	х	
15	5818-037	Gas Manifold	ļ			^	Х
16	8406-036	Flame Rollout Switch	2	2		2	
16	8406-037	Flame Rollout Switch	-	-	2	-	2
17	9010-074	Inshot Burner	2	3	4	5	6
18	9010-076	Gas Orifice 2.25mm Drill	2	3	4	5	6
19	8554-019	Flame Sensor	X	$\frac{3}{x}$	X	X	X
20	8620-133	Hot Surface Ignitor	$\frac{1}{x}$	$\hat{\mathbf{x}}$	$\frac{\hat{x}}{x}$	$\hat{\mathbf{x}}$	x
21	8402-107	Primary Limit Control	$\frac{1}{x}$	$\hat{\mathbf{x}}$	_^_	-^-	
21	8402-102	Primary Limit Control	^	^	х	$_{x}$	
21	8402-108	Primary Limit Control			^	^	v
22	1921-043 ③	Gasket Set	-	$\mathbf{x}$			Х
22	1921-044 ③	Gasket Set	^	^	х		
22	1921-045 ③	Gasket Set		1	^		
22	1921-046 ③	Gasket Set				X	х

 $<sup>\</sup>odot$  Setpoints shown are nominal cutout (open on pressure fall) ratings and have  $\pm$  .05 tolerance.

② Includes: Wheel P/N 5152-053, Housing and diffuser

<sup>3</sup> Includes gaskets for primary limit, collector box, and induced draft blower

## **Functional Components**

Drawing			TDH042	rdH063	TDH084	TDH105	TDH126
No.	Part No.	Description	<u>T</u>	10	1	1	百
23	8200-036	Motor Mount Arm	 3	3			
23	8200-034	Motor Mount Arm	-		3		
23	8200-035	Motor Mount Arm				3	3
24	8200-033	Motor Mount Band	 X	X	X	X	$\frac{3}{X}$
25	8552-002	Capacitor 5/3/70	 X	X	<del>  ^`</del>	<u> </u>	1
25	8552-004	Capacitor 7.5/3/70	``		x		
25	8552-026	Capacitor 15/3/70			<b> </b> ^`	x	x
26	8105-038	Motor 1/3 H.P.	X		·	<u> </u>	<del>  ^  </del>
26	8105-041	Motor 1/3 H.P.	``	х	l		
26	<b>8105-033</b> <i>8106-033</i>	Motor 1/2 H.P.		\ \ \	х		1 1
26	8107-007	Motor 3/4 H.P.			^	x	<sub>x</sub>
27	5152-073	Blower Wheel	X				$\vdash  \vdash$
27	5152-013	Blower Wheel	^	х			1 1
27	5152 <u>-05</u> 9	Blower Wheel			х		1 1
27	5152 <mark>≡_</mark> 3	Blower Wheel			^`	x	X
28	104X=51	Right Blower Angle	Х	X	X	$\frac{\lambda}{x}$	$\frac{1}{x}$

Drawing No.	Part No.	Description	TDH042	TDH063	TDH084	TDH105	TDH126
1	3000-1067	Wire Harness	X	Х	Y	V	T v
2	3000-1068	Wire Harness	Y	V	<del>  ŷ</del>	<del>                                     </del>	<del>                                     </del>
3	3000-1069	Wire Harness	${\mathbf{x}}$	Ŷ	Ŷ	<del>                                     </del>	<del>I ≎</del>
4	3000-1070	Wire Harness		Ŷ	÷	<del>                                     </del>	<del>                                     </del>
5	3000-1071	Wire Harness	X	x	X	$\frac{\hat{x}}{x}$	$\frac{\lambda}{x}$

