Models:

51454 — 3,400 RPM 51455 — 4,500 RPM

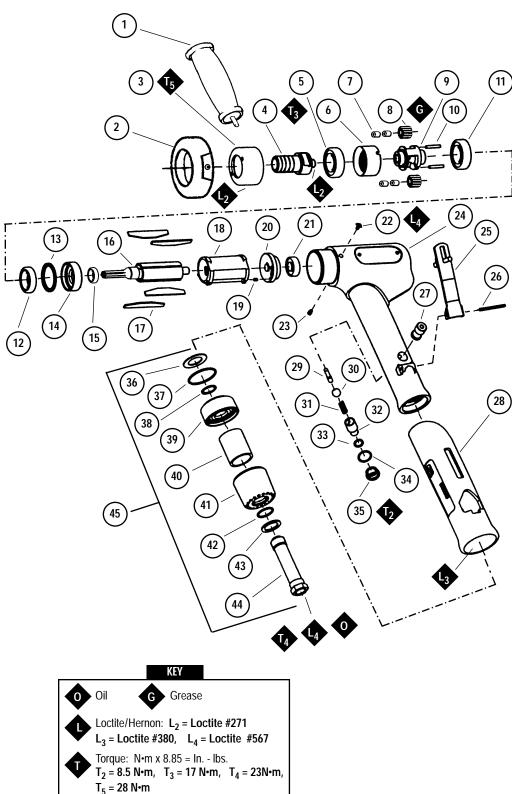
Metric .7 Hp/7° Buffer

Air Motor and Machine Parts

AWARNING

Always operate, inspect and maintain this tool in accordance with the Safety Code for portable air tools (ANSI B186.1) and any other applicable safety codes and regulations. Please refer to Dynabrade's Warning/Safety Operating Instructions for more complete safety information.

No. Part Description			
1 53163 Handle Assembly 2 13005 Collar 3 13432 Spindle Cover 4 07182 Spindle 5 02552 Bearing 6 53191 Ring Gear 7 04026 Bearing (4) 8 53193 3,400 RPM Gear (2) 9 53180 Planetary Carrier 10 53182 Gear Shaft (2) 11 04026 Bearing 12 01007 Bearing 13 01121 Shim Pak 14 53183 Front End Plate 15 01007 Bearing 12 01007 Bearing 13 01121 Shim Pak 14 53183 Front End Plate 15 01010 Spacer 16 04017 3,400 RPM Rotor 17 01185 Blades (4/pkg.) 18 01028 Cylinder 19 50767	Ind	lex Ke	y
2 13005 Collar 3 13432 Spindle Cover 4 07182 Spindle 5 02552 Bearing 6 53191 Ring Gear 7 04026 Bearing (4) 8 53193 3,400 RPM Gear (2) 9 53180 Planetary Carrier 10 53182 Gear Shaft (2) 11 04026 Bearing 12 01007 Bearing 13 01121 Shim Pak 14 53183 Front End Plate 15 01010 Spacer 16 04017 3,400 RPM Rotor 17 01185 Blades (4/pkg.) 18 01028 Cylinder 19 50767 Pin 20 13440 Rear End Plate 21 02649 Bearing 22 04014 Screw 23 01041 Grease Fitting 24 51456 3,400RPM Housing Assy. 51477 4,500RPM Housing Assy.	No.	Part	Description
3 13432 Spindle Cover 4 07182 Spindle 5 02552 Bearing 6 53191 Ring Gear 7 04026 Bearing (4) 8 53193 3,400 RPM Gear (2) 9 53180 Planetary Carrier 10 53182 Gear Shaft (2) 11 04026 Bearing 12 01007 Bearing 13 01121 Shim Pak 14 53183 Front End Plate 15 01010 Spacer 16 04017 3,400 RPM Rotor 16 04017 3,400 RPM Rotor 17 01185 Blades (4/pkg.) 18 01028 Cylinder 19 50767 Pin 20 13440 Rear End Plate 21 02649 Bearing 22 04014 Screw 23 01041 Grease Fitting 24 51456	1	53163	Handle Assembly
4 07182 Spindle 5 02552 Bearing 6 53191 Ring Gear 7 04026 Bearing (4) 8 53193 3,400 RPM Gear (2) 9 53180 Planetary Carrier 10 53182 Gear Shaft (2) 11 04026 Bearing 12 01007 Bearing 13 01121 Shim Pak 14 53183 Front End Plate 15 01010 Spacer 16 04017 3,400 RPM Rotor 17 01185 Blades (4/pkg.) 18 01028 Cylinder 19 50767 Pin 20 13440 Rear End Plate 21 02649 Bearing 22 04014 Screw 23 01041 Grease Fitting 24 51456 3,400RPM Housing Assy. 51477 4,500RPM Housing Assy. 51477 4,500RPM Housin	2	13005	Collar
5 02552 Bearing 6 53191 Ring Gear 7 04026 Bearing (4) 8 53193 3,400 RPM Gear (2) 9 53180 Planetary Carrier 10 53182 Gear Shaft (2) 11 04026 Bearing 12 01007 Bearing 13 01121 Shim Pak 14 53183 Front End Plate 15 01010 Spacer 16 04017 3,400 RPM Rotor 17 01185 Blades (4/pkg.) 18 01028 Cylinder 19 50767 Pin 20 13440 Rear End Plate 21 02649 Bearing 22 04014 Screw 23 01041 Grease Fitting 24 51456 3,400RPM Housing Assy. 51477 4,500RPM Housing Assy. 51477 4,500RPM Housing Assy. 10177 Pin	3	13432	Spindle Cover
6 53191 Ring Gear 7 04026 Bearing (4) 8 53193 3,400 RPM Gear (2) 9 53180 Planetary Carrier 10 53182 Gear Shaft (2) 11 04026 Bearing 12 01007 Bearing 13 01121 Shim Pak 14 53183 Front End Plate 15 01010 Spacer 16 04017 3,400 RPM Rotor 17 01185 Blades (4/pkg.) 18 01028 Cylinder 19 50767 Pin 20 13440 Rear End Plate 21 02649 Bearing 22 04014 Screw 23 01041 Grease Fitting 24 51456 3,400RPM Housing Assy. 51477 4,500RPM Housing Assy. 51477 4,500RPM Housing Assy. 51477 13436 Bushing 25 01089	4	07182	Spindle
7 04026 Bearing (4) 8 53193 3,400 RPM Gear (2) 9 53180 Planetary Carrier 10 53182 Gear Shaft (2) 11 04026 Bearing 12 01007 Bearing 13 01121 Shim Pak 14 53183 Front End Plate 15 01010 Spacer 16 04017 3,400 RPM Rotor 04009 4,500 RPM Rotor 17 01185 Blades (4/pkg.) 18 01028 Cylinder 19 50767 Pin 20 13440 Rear End Plate 21 02649 Bearing 22 04014 Screw 23 01041 Grease Fitting 24 51456 3,400 RPM Housing Assy. 51477 4,500 RPM Housing Assy. 51477 4,500 RPM Housing Assy. 25 01089 Throttle Lever Assembly 26 01017	5	02552	Bearing
8 53193 3,400 RPM Gear (2) 9 53180 Planetary Carrier 10 53182 Gear Shaft (2) 11 04026 Bearing 12 01007 Bearing 13 01121 Shim Pak 14 53183 Front End Plate 15 01010 Spacer 16 04017 3,400 RPM Rotor 17 01185 Blades (4/pkg.) 18 01028 Cylinder 19 50767 Pin 20 13440 Rear End Plate 21 02649 Bearing 22 04014 Screw 23 01041 Grease Fitting 24 51456 3,400RPM Housing Assy. 51477 4,500RPM Housing Assy. 51477 4,500RPM Housing Assy. (includes 13436 Bushing 8 01041 Grease Fitting) 25 01089 Throttle Lever Assembly 26 01017 Pin 27 13436 Bushing 28 1343	6	53191	Ring Gear
53195 4,500 RPM Gear (2) 9 53180 Planetary Carrier 10 53182 Gear Shaft (2) 11 04026 Bearing 12 01007 Bearing 13 01121 Shim Pak 14 53183 Front End Plate 15 01010 Spacer 16 04017 3,400 RPM Rotor 17 01185 Blades (4/pkg.) 18 01028 Cylinder 19 50767 Pin 20 13440 Rear End Plate 21 02649 Bearing 22 04014 Screw 23 01041 Grease Fitting 24 51456 3,400RPM Housing Assy. (includes 13436 Bushing 25 01089 Throttle Lever Assembly 26 01017 Pin 27 13436 Bushing 28 13438 Handle Grip 29 13435 Valve Stem 30	7	04026	Bearing (4)
9 53180 Planetary Carrier 10 53182 Gear Shaft (2) 11 04026 Bearing 12 01007 Bearing 13 01121 Shim Pak 14 53183 Front End Plate 15 01010 Spacer 16 04017 3,400 RPM Rotor 04009 4,500 RPM Rotor 17 01185 Blades (4/pkg.) 18 01028 Cylinder 19 50767 Pin 20 13440 Rear End Plate 21 02649 Bearing 22 04014 Screw 23 01041 Grease Fitting 24 51456 3,400RPM Housing Assy. 51477 4,500RPM Housing Assy. (includes 13436 Bushing 8 01041 Grease Fitting) 25 01089 Throttle Lever Assembly 26 01017 Pin 27 13436 Bushing 28 13438 Handle Grip 29 13435 Valve Stem 30 13439 Ball 31 07145 Spring 32 13437 Speed Regulator 33 01024 O-Ring 34 13428 Packing 35 13427 Regulator Plug 36 01565 3,400 RPM Air Cntrl Ring 01564 4,500 RPM Air Cntrl Ring 01564 4,500 RPM Air Cntrl Ring 37 95438 O-Ring 38 95711 Retaining Ring 39 94521 Muffler Base	8	53193	3,400 RPM Gear (2)
10 53182 Gear Shaft (2) 11 04026 Bearing 12 01007 Bearing 13 01121 Shim Pak 14 53183 Front End Plate 15 01010 Spacer 16 04017 3,400 RPM Rotor 17 01185 Blades (4/pkg.) 18 01028 Cylinder 19 50767 Pin 20 13440 Rear End Plate 21 02649 Bearing 22 04014 Screw 23 01041 Grease Fitting 24 51456 3,400RPM Housing Assy. 51477 4,500RPM Housing Assy. 51477 4,500RPM Housing Assy. 25 01089 Throttle Lever Assembly 26 01017 Pin 27 13436 Bushing 28 13438 Handle Grip 29 13435 Valve Stem 30 13439 Ba		53195	4,500 RPM Gear (2)
11 04026 Bearing 12 01007 Bearing 13 01121 Shim Pak 14 53183 Front End Plate 15 01010 Spacer 16 04017 3,400 RPM Rotor 17 01185 Blades (4/pkg.) 18 01028 Cylinder 19 50767 Pin 20 13440 Rear End Plate 21 02649 Bearing 22 04014 Screw 23 01041 Grease Fitting 24 51456 3,400RPM Housing Assy. 51477 4,500RPM Housing Assy. (includes 13436 Bushing 8 01041 Grease Fitting) 25 01089 Throttle Lever Assembly 26 01017 Pin 27 13436 Bushing 28 13438 Handle Grip 29 13435 Valve Stem 30 13439 Ball 31 07145	9	53180	Planetary Carrier
12 01007 Bearing 13 01121 Shim Pak 14 53183 Front End Plate 15 01010 Spacer 16 04017 3,400 RPM Rotor 17 01185 Blades (4/pkg.) 18 01028 Cylinder 19 50767 Pin 20 13440 Rear End Plate 21 02649 Bearing 22 04014 Screw 23 01041 Grease Fitting 24 51456 3,400RPM Housing Assy. 51477 4,500RPM Housing Assy. (includes 13436 Bushing 8 01041 Grease Fitting) 25 01089 Throttle Lever Assembly 26 01017 Pin 27 13436 Bushing 28 13438 Handle Grip 29 13435 Valve Stem 30 13439 Ball 31 07145 Spring 34 13428	10	53182	
12 01007 Bearing 13 01121 Shim Pak 14 53183 Front End Plate 15 01010 Spacer 16 04017 3,400 RPM Rotor 17 01185 Blades (4/pkg.) 18 01028 Cylinder 19 50767 Pin 20 13440 Rear End Plate 21 02649 Bearing 22 04014 Screw 23 01041 Grease Fitting 24 51456 3,400RPM Housing Assy. 51477 4,500RPM Housing Assy. (includes 13436 Bushing & 01041 Grease Fitting) Throttle Lever Assembly 25 01089 Throttle Lever Assembly 26 01017 Pin 27 13436 Bushing 28 13438 Handle Grip 29 13435 Valve Stem 30 13439 Ball 31 07145 Spring 32	11	04026	Bearing
13 01121 Shim Pak 14 53183 Front End Plate 15 01010 Spacer 16 04017 3,400 RPM Rotor 17 01185 Blades (4/pkg.) 18 01028 Cylinder 19 50767 Pin 20 13440 Rear End Plate 21 02649 Bearing 22 04014 Screw 23 01041 Grease Fitting 24 51456 3,400RPM Housing Assy. (includes 13436 Bushing & 01041 Grease Fitting) 25 01089 Throttle Lever Assembly 26 01017 Pin 27 13436 Bushing 28 13438 Handle Grip 29 13435 Valve Stem 30 13439 Ball 31 07145 Spring 32 13437 Speed Regulator 33 01024 O-Ring 34 13428 Packing	12	01007	Bearing
15	13	01121	
16 04017 3,400 RPM Rotor 04009 4,500 RPM Rotor 17 01185 Blades (4/pkg.) 18 01028 Cylinder 19 50767 Pin 20 13440 Rear End Plate 21 02649 Bearing 22 04014 Screw 23 01041 Grease Fitting 24 51456 3,400RPM Housing Assy. 51477 4,500RPM Housing Assy. (includes 13436 Bushing & 01041 Grease Fitting) 25 01089 Throttle Lever Assembly 26 01017 Pin 27 13436 Bushing 28 13438 Handle Grip 29 13435 Valve Stem 30 13439 Ball 31 07145 Spring 32 13437 Speed Regulator 33 01024 O-Ring 34 13428 Packing 35 13427 Regulator Plug 36 01565 3,400 RPM Air Cntrl Ring 01564 4,500 RPM Air Cntrl Ring 01564 4,500 RPM Air Cntrl Ring 37 95438 O-Ring 38 95711 Retaining Ring 39 94521 Muffler Base	14	53183	Front End Plate
04009 4,500 RPM Rotor 17 01185 Blades (4/pkg.) 18 01028 Cylinder 19 50767 Pin 20 13440 Rear End Plate 21 02649 Bearing 22 04014 Screw 23 01041 Grease Fitting 24 51456 3,400 RPM Housing Assy. (includes 13436 Bushing & 01041 Grease Fitting) 25 01089 Throttle Lever Assembly 26 01017 Pin 27 13436 Bushing 28 13438 Handle Grip 29 13435 Valve Stem 30 13439 Ball 31 07145 Spring 32 13437 Speed Regulator 33 01024 O-Ring 34 13428 Packing 35 13427 Regulator Plug 36 01565 3,400 RPM Air Cntrl Ring 01564 4,500 RPM Air Cntrl Ring <	15	01010	Spacer
04009 4,500 RPM Rotor 17 01185 Blades (4/pkg.) 18 01028 Cylinder 19 50767 Pin 20 13440 Rear End Plate 21 02649 Bearing 22 04014 Screw 23 01041 Grease Fitting 24 51456 3,400 RPM Housing Assy. (includes 13436 Bushing & 01041 Grease Fitting) 25 01089 Throttle Lever Assembly 26 01017 Pin 27 13436 Bushing 28 13438 Handle Grip 29 13435 Valve Stem 30 13439 Ball 31 07145 Spring 32 13437 Speed Regulator 33 01024 O-Ring 34 13428 Packing 35 13427 Regulator Plug 36 01565 3,400 RPM Air Cntrl Ring 01564 4,500 RPM Air Cntrl Ring <	16	04017	
18 01028 Cylinder 19 50767 Pin 20 13440 Rear End Plate 21 02649 Bearing 22 04014 Screw 23 01041 Grease Fitting 24 51456 3,400RPM Housing Assy. (includes 13436 Bushing & 01041 Grease Fitting) 25 01089 Throttle Lever Assembly 26 01017 Pin 27 13436 Bushing 28 13438 Handle Grip 29 13435 Valve Stem 30 13439 Ball 31 07145 Spring 32 13437 Speed Regulator 33 01024 O-Ring 34 13428 Packing 35 13427 Regulator Plug 36 01565 3,400 RPM Air Cntrl Ring 01564 4,500 RPM Air Cntrl Ring 37 95438 O-Ring 38 95711 Retaining Ring		04009	
18 01028 Cylinder 19 50767 Pin 20 13440 Rear End Plate 21 02649 Bearing 22 04014 Screw 23 01041 Grease Fitting 24 51456 3,400RPM Housing Assy. (includes 13436 Bushing & 01041 Grease Fitting) 25 01089 Throttle Lever Assembly 26 01017 Pin 27 13436 Bushing 28 13438 Handle Grip 29 13435 Valve Stem 30 13439 Ball 31 07145 Spring 32 13437 Speed Regulator 33 01024 O-Ring 34 13428 Packing 35 13427 Regulator Plug 36 01565 3,400 RPM Air Cntrl Ring 01564 4,500 RPM Air Cntrl Ring 37 95438 O-Ring 38 95711 Retaining Ring	17	01185	Blades (4/pkg.)
19 50767 Pin 20 13440 Rear End Plate 21 02649 Bearing 22 04014 Screw 23 01041 Grease Fitting 24 51456 3,400RPM Housing Assy. (includes 13436 Bushing & 01041 Grease Fitting) 25 01089 Throttle Lever Assembly 26 01017 Pin 27 13436 Bushing 28 13438 Handle Grip 29 13435 Valve Stem 30 13439 Ball 31 07145 Spring 32 13437 Speed Regulator 33 01024 O-Ring 34 13428 Packing 35 13427 Regulator Plug 36 01565 3,400 RPM Air Cntrl Ring 01564 4,500 RPM Air Cntrl Ring 37 95438 O-Ring 38 95711 Retaining Ring 39 94521 Muffler Base <th></th> <th></th> <th></th>			
21 02649 Bearing 22 04014 Screw 23 01041 Grease Fitting 24 51456 3,400RPM Housing Assy. (includes 13436 Bushing & 01041 Grease Fitting) 25 01089 Throttle Lever Assembly 26 01017 Pin 27 13436 Bushing 28 13438 Handle Grip 29 13435 Valve Stem 30 13439 Ball 31 07145 Spring 32 13437 Speed Regulator 33 01024 O-Ring 34 13428 Packing 35 13427 Regulator Plug 36 01565 3,400 RPM Air Cntrl Ring 01564 4,500 RPM Air Cntrl Ring 37 95438 O-Ring 38 95711 Retaining Ring 39 94521 Muffler Base	19	50767	,
22 04014 Screw 23 01041 Grease Fitting 24 51456 3,400RPM Housing Assy. (includes 13436 Bushing & 01041 Grease Fitting) 25 01089 Throttle Lever Assembly 26 01017 Pin 27 13436 Bushing 28 13438 Handle Grip 29 13435 Valve Stem 30 13439 Ball 31 07145 Spring 32 13437 Speed Regulator 33 01024 O-Ring 34 13428 Packing 35 13427 Regulator Plug 36 01565 3,400 RPM Air Cntrl Ring 01564 4,500 RPM Air Cntrl Ring 37 95438 O-Ring 38 95711 Retaining Ring 39 94521 Muffler Base	20	13440	Rear End Plate
23 01041 Grease Fitting 24 51456 3,400 RPM Housing Assy. 51477 4,500 RPM Housing Assy. (includes 13436 Bushing & 01041 Grease Fitting) 25 01089 Throttle Lever Assembly 26 01017 Pin 27 13436 Bushing 28 13438 Handle Grip 29 13435 Valve Stem 30 13439 Ball 31 07145 Spring 32 13437 Speed Regulator 33 01024 O-Ring 34 13428 Packing 35 13427 Regulator Plug 36 01565 3,400 RPM Air Cntrl Ring 01564 4,500 RPM Air Cntrl Ring 37 95438 O-Ring 38 95711 Retaining Ring 39 94521 Muffler Base	21	02649	Bearing
24 51456 3,400RPM Housing Assy. 51477 4,500RPM Housing Assy. (includes 13436 Bushing & 01041 Grease Fitting) 25 01089 Throttle Lever Assembly 26 01017 Pin 27 13436 Bushing 28 13438 Handle Grip 29 13435 Valve Stem 30 13439 Ball 31 07145 Spring 32 13437 Speed Regulator 33 01024 O-Ring 34 13428 Packing 35 13427 Regulator Plug 36 01565 3,400 RPM Air Cntrl Ring 01564 4,500 RPM Air Cntrl Ring 37 95438 O-Ring 38 95711 Retaining Ring 39 94521 Muffler Base	22	04014	Screw
24 51456 3,400RPM Housing Assy. 51477 4,500RPM Housing Assy. (includes 13436 Bushing & 01041 Grease Fitting) 25 01089 Throttle Lever Assembly 26 01017 Pin 27 13436 Bushing 28 13438 Handle Grip 29 13435 Valve Stem 30 13439 Ball 31 07145 Spring 32 13437 Speed Regulator 33 01024 O-Ring 34 13428 Packing 35 13427 Regulator Plug 36 01565 3,400 RPM Air Cntrl Ring 01564 4,500 RPM Air Cntrl Ring 37 95438 O-Ring 38 95711 Retaining Ring 39 94521 Muffler Base	23	01041	Grease Fitting
51477 4,500 RPM Housing Assy.	24	51456	
(includes 13436 Bushing & 01041 Grease Fitting) 25 01089 Throttle Lever Assembly 26 01017 Pin 27 13436 Bushing 28 13438 Handle Grip 29 13435 Valve Stem 30 13439 Ball 31 07145 Spring 32 13437 Speed Regulator 33 01024 O-Ring 34 13428 Packing 35 13427 Regulator Plug 36 01565 3,400 RPM Air Cntrl Ring 01564 4,500 RPM Air Cntrl Ring 37 95438 O-Ring 38 95711 Retaining Ring 39 94521 Muffler Base		51477	
25 01089 Throttle Lever Assembly 26 01017 Pin 27 13436 Bushing 28 13438 Handle Grip 29 13435 Valve Stem 30 13439 Ball 31 07145 Spring 32 13437 Speed Regulator 33 01024 O-Ring 34 13428 Packing 35 13427 Regulator Plug 36 01565 3,400 RPM Air Cntrl Ring 01564 4,500 RPM Air Cntrl Ring 37 95438 O-Ring 38 95711 Retaining Ring 39 94521 Muffler Base			
26 01017 Pin 27 13436 Bushing 28 13438 Handle Grip 29 13435 Valve Stem 30 13439 Ball 31 07145 Spring 32 13437 Speed Regulator 33 01024 O-Ring 34 13428 Packing 35 13427 Regulator Plug 36 01565 3,400 RPM Air Cntrl Ring 01564 4,500 RPM Air Cntrl Ring 37 95438 O-Ring 38 95711 Retaining Ring 39 94521 Muffler Base			& 01041 Grease Fitting)
27 13436 Bushing 28 13438 Handle Grip 29 13435 Valve Stem 30 13439 Ball 31 07145 Spring 32 13437 Speed Regulator 33 01024 O-Ring 34 13428 Packing 35 13427 Regulator Plug 36 01565 3,400 RPM Air Cntrl Ring 01564 4,500 RPM Air Cntrl Ring 37 95438 O-Ring 38 95711 Retaining Ring 39 94521 Muffler Base	25	01089	Throttle Lever Assembly
28 13438 Handle Grip 29 13435 Valve Stem 30 13439 Ball 31 07145 Spring 32 13437 Speed Regulator 33 01024 O-Ring 34 13428 Packing 35 13427 Regulator Plug 36 01565 3,400 RPM Air Cntrl Ring 01564 4,500 RPM Air Cntrl Ring 37 95438 O-Ring 38 95711 Retaining Ring 39 94521 Muffler Base		01017	Pin
29 13435 Valve Stem 30 13439 Ball 31 07145 Spring 32 13437 Speed Regulator 33 01024 O-Ring 34 13428 Packing 35 13427 Regulator Plug 36 01565 3,400 RPM Air Cntrl Ring 01564 4,500 RPM Air Cntrl Ring 37 95438 O-Ring 38 95711 Retaining Ring 39 94521 Muffler Base	27	13436	Bushing
 30 13439 Ball 31 07145 Spring 32 13437 Speed Regulator 33 01024 O-Ring 34 13428 Packing 35 13427 Regulator Plug 36 01565 3,400 RPM Air Cntrl Ring 01564 4,500 RPM Air Cntrl Ring 37 95438 O-Ring 38 95711 Retaining Ring 39 94521 Muffler Base 	28	13438	Handle Grip
31 07145 Spring 32 13437 Speed Regulator 33 01024 O-Ring 34 13428 Packing 35 13427 Regulator Plug 36 01565 3,400 RPM Air Cntrl Ring 01564 4,500 RPM Air Cntrl Ring 37 95438 O-Ring 38 95711 Retaining Ring 39 94521 Muffler Base	29	13435	Valve Stem
32 13437 Speed Regulator 33 01024 O-Ring 34 13428 Packing 35 13427 Regulator Plug 36 01565 3,400 RPM Air Cntrl Ring 01564 4,500 RPM Air Cntrl Ring 37 95438 O-Ring 38 95711 Retaining Ring 39 94521 Muffler Base	30	13439	Ball
 33 01024 O-Ring 34 13428 Packing 35 13427 Regulator Plug 36 01565 3,400 RPM Air Cntrl Ring 01564 4,500 RPM Air Cntrl Ring 37 95438 O-Ring 38 95711 Retaining Ring 39 94521 Muffler Base 	31	07145	
 34 13428 Packing 35 13427 Regulator Plug 36 01565 3,400 RPM Air Cntrl Ring 01564 4,500 RPM Air Cntrl Ring 37 95438 O-Ring 38 95711 Retaining Ring 39 94521 Muffler Base 	32	13437	Speed Regulator
35 13427 Regulator Plug 36 01565 3,400 RPM Air Cntrl Ring 01564 4,500 RPM Air Cntrl Ring 37 95438 O-Ring 38 95711 Retaining Ring 39 94521 Muffler Base		01024	
36	34	13428	Packing
01564 4,500 RPM Air Cntrl Ring 37 95438 O-Ring 38 95711 Retaining Ring 39 94521 Muffler Base	35	13427	
37 95438 O-Ring 38 95711 Retaining Ring 39 94521 Muffler Base	36	01565	3,400 RPM Air Cntrl Ring
38 95711 Retaining Ring 39 94521 Muffler Base		01564	
39 94521 Muffler Base	37	95438	O-Ring
	38	95711	Retaining Ring
	39	94521	Muffler Base
40 94528 Muffler	40	94528	Muffler
41 94522 Muffler Cap	41	94522	Muffler Cap
42 95375 O-Ring	42	95375	
43 94526 Spacer	43	94526	•
44 94523 Inlet Adapter	44	94523	Inlet Adapter
45 94519 Muffler Assy.	45		



Important Operating, Maintenance and Safety Instructions

Carefully read all instructions before operating or servicing any Dynabrade® Abrasive Power Tool.

Warning: Hand, wrist and arm injury may result from repetitive work motion and overexposure to vibration.

Important: All Dynabrade air tools must be used with a Filter-Regulator-Lubricator to maintain all warranties.

Operating Instructions:

Warning: Eye, face and body protection must be worn while operating power tools. Failure to do so may result in serious injury or death. Follow safety procedures posted in workplace.

- 1. With power source disconnected from tool, securely fasten abrasive/accessory on tool.
- 2. Install air fitting into inlet bushing of tool. Important: Secure inlet bushing of tool with a wrench before attempting to install the air fitting to avoid damaging valve body housing.
- 3. Connect power source to tool. Be careful not to depress throttle lever in the process.
- 4. Check tool speed with tachometer. If tool is operating at a higher speed than the RPM marked on the tool or operating improperly, the tool should be serviced to correct the cause before use.

Maintenance Instructions:

- 1. Check tool speed regularly with a tachometer. If tool is operating at a higher speed than the RPM marked on the tool, the tool should be serviced to correct the cause before use.
- 2. Some silencers on air tools may clog with use. Clean and replace as required.
- 3. All Dynabrade air motors should be lubricated. Dynabrade recommends one drop of air lube per minute for each 10 SCFM (example: if the tool specification state 40 SCFM, set the drip rate of your filter-lubricator at 4 drops per minute). Dynabrade Air Lube (P/N 95842: 1pt. 473ml.) is recommended.
- 4. An air line filter-regulator-lubricator must be used with this air tool to maintain all warranties. Dynabrade recommends the following: 11411 Air Line Filter-Regulator-Lubricator Provides accurate air pressure regulation, two-stage filtration of water contaminants and micro-mist lubrication of pneumatic components. Operates up to 100 CFM @ 100 PSI has 1/2" NPT female ports.
- 5. Use only genuine Dynabrade replacement parts. To reorder replacement parts, specify the Model #, Serial # and RPM of your machine.
- 6. A motor tune-up kit (P/N 96234) is available which includes assorted parts to help maintain motor in peek operating condition. Please refer to Dynabrade's Preventative Maintenance Schedule for a guide to expectant life of component parts.
- 7. Mineral spirits are recommended when cleaning the tool and parts. Do not clean tool or parts with any solvents or oils containing acids, esters, keytones, chlorinated hydrocarbons or nitro carbons.

Safety Instructions:

Products offered by Dynabrade should not be converted or otherwise altered from original design without expressed written consent from Dynabrade, Inc.

- Important: User of tool is responsible for following accepted safety codes such as those published by the American National Standards Institute (ANSI).
- Operate machine for one minute before application to workpiece to determine if machine is working properly and safely before work begins.
- Always disconnect power supply before changing abrasive/accessory or making machine adjustments.
- Inspect abrasives/accessories for damage or defects prior to installation on tools.
- Please refer to Dynabrade's Warning/Safety Operating Instructions Tag (Reorder No. 95903) for more complete safety information.
- Warning: Hand, wrist and arm injury may result from repetitive work, motion and overexposure to vibration.

Notice

All Dynabrade motors use the highest quality parts and metals available and are machined to exacting tolerances. The failure of quality pneumatic motors can most often be traced to an unclean air supply or the lack of lubrication. Air pressure easily forces dirt or water contained in the air supply into motor bearings causing early failure. It often scores the cylinder walls and the rotor blades resulting in limited efficiency and power. Our warranty obligation is contingent upon proper use of our tools and cannot apply to equipment which has been subjected to misuse such as unclean air, wet air or a lack of lubrication during the use of this tool.

One Year Warranty

Following the reasonable assumption that any inherent defect which might prevail in a product will become apparent to the user within one year from the date of purchase, all equipment of our manufacture is warranted against defects in workmanship and materials under normal use and service. We shall repair or replace at our factory, any equipment or part thereof which shall, within one year after delivery to the original purchaser, indicate upon our examination to have been defective. Our obligation is contingent upon proper use of Dynabrade tools in accordance with factory recommendations, instructions and safety practices. It shall not apply to equipment which has been subject to misuse, negligence, accident or tampering in any way so as to affect its normal performance. Normally wearable parts such as bearings, contact wheels, rotor blades, etc., are not covered under this warranty.

Machine Number	Length Inch (mm)	Weight Pound (kg)	Wheel Arbor Dia. Inch (mm)	Air Flow Rate SCFM (LPM)	Sound Level	Motor HP (W)	Motor RPM	Max. SFPM Stall Torque (SMPM) ozin, (N•m)
51454	10.8" (274)	4.10 (1.86)	M-14 x 2	46 (1,291)	80 dBA	.70 (522)	3,400	4450 (1350) 700 (4943)
51455	10.8" (274)	4.10 (1.86)	M-14 x 2	46 (1,291)	80 dBA	.77 (574)	4,500	5890 (1790) 600 (4237)

Additional specifications: Air Inlet Thread 1/4" (6 mm) NPT · Hose Size 3/8" (9 mm) · 90 PSI (6.2 Bars)

Disassembly/Assembly Instructions - .7 Hp Buffer

Important: Manufacturer's warranty is void if tool is disassembled before warranty expires.

Please refer to parts breakdown for part identification.

Motor Disassembly:

- 1. Disconnect tool from power source. Remove buffing pad or accessory from spindle.
- 2. Secure motor housing using padded vise with motor spindle facing upwards.
- 3. Using an adjustable pin wrench, remove 13432 Spindle Cover.
- 4. Remove 04014 Set Screw from housing.
- 6. Pull 07182 Arbor Adapter and planetary carrier assembly from housing.
- 7. Press planetary carrier assembly from rear **02552** Bearing. Remove ring gear and gears from **53180** Planetary Carrier.
- 8. Secure planetary carrier in vise and remove 14355 Arbor Adapter. Press carrier from front 02552 Bearing.
- 9. Grab onto rotor/pinion and pull motor assembly from motor housing.
- 10. Press rotor/pinion from 13440 Rear Bearing Plate. Press 02649 Rear Bearing from rear bearing plate.
- 11. Remove 01028 Cylinder and 01185 Rotor blades from rotor.
- 12. Press rotor pinion assembly through 01007 Front Bearing and 53183 Front Bearing Plate.

Motor disassembly complete.

Housing Disassembly:

- 1. Position housing in padded vise with air inlet facing up.
- Remove air fitting by securing 94523 Inlet Adapter with a wrench and twist air fitting from inlet adapter.Important: 94523 Inlet Adapter must be secured before attempting to remove air fitting to avoid damaging valve body housing.
- 3. Remove 94523 Inlet Adapter.
- 4. Remove 95711 Retaining Ring from inlet adapter and separate 94521 Muffler Base from 94522 Muffler Cap. Remove 94528 Felt Muffler.
- 5. Remove air control ring from housing.
- 6. Using a 2.5 mm drift pin, tap 01017 Pin from housing and remove throttle lever assembly.
- 7. Remove 13427 Plug. Pull 13437 Speed Regulator from housing and remove 01024 O-Rings, 07145 Spring, 13439 Ball, and 13435 Valve Stem. Disassembly complete.

Motor Reassembly:

Important: Be sure parts are clean and in good repair before reassembly. Follow all grease, oil, and torque specifications.

- 1. Place rotor/pinion in padded vise with threaded spindle facing upwards.
- 2. Slip 01010 Spacer onto rotor/pinion.
- 3. Place a .002" shim into 53183 Front Bearing Plate as an initial spacing and slip 01007 Bearing into plate. Note: 01121 Shim Pak contains .001" and .002" shims.
- 4. Press bearing/bearing plate assembly onto rotor.
- 5. Check clearance between rotor and bearing plate by using a .001" feeler gauge. Clearance should be at .001" to .0015". Adjust clearance by repeating steps 2-4 with different shim if necessary.
- 6. Once proper rotor gap clearance is achieved, install well lubricated 01185 Blades (4) into rotor slots. Dynabrade recommends using their 95842 Air Lube.
- 7. Install cylinder over rotor/pinion. Be sure air inlet holes of cylinder face away from 53183 Front Bearing Plate.
- 8. Press 02649 Rear Bearing into 13440 Rear Bearing Plate. Press bearing/bearing plate assembly onto rotor. Be sure that pin and air inlet holes line up with pin slot and air inlet holes in cylinder.
 - **Important:** Fit must be snug between bearing plates and cylinder. If too tight, rotor will not turn freely. Rotor must then be lightly tapped at press fit end so it will turn freely while still maintaining a snug fit. A loose fit will not achieve the proper preload of motor bearings.
- 10. Secure motor housing in padded vise so motor cavity faces upwards. Install motor assembly into housing. Be sure motor inlet is facing the handle and it drops all the way into housing
- 11. Press front 02552 Bearing onto front end of 53180 Planetary Carrier.
- 12. Apply #271 Loctite® to 07182 Arbor Adapter and install onto 53180 Planetary Carrier (torque 17.0 N·m/150 in. lbs.).
- 13. Install gears, 04026 Bearings and 53182 Gear Shafts onto planetary carrier.
- 14. Slip 53191 Ring Gear over gears and press rear 02552 Bearing onto planetary carrier.
- 15. Apply two drops of #271 Loctite® to threads of 13432 Spindle Cover.
- 16. Apply #271 Loctite® to 13432 Spindle Cover and install onto housing, to secure motor (torque 28 N•m/250 in. lbs.).

Motor Reassembly Complete.

Housing Reassembly:

- 1. Install 13438 Handle Grip.
- 2. Insert 13435 Valve Stem through housing and into hole in 13436 Bushing.
- 3. Insert 13439 Ball, 07145 Spring, 13437 Speed Regulator with 01024 O-Ring in place.
- 4. Install 13428 Packing onto 13427 Regulator Plug. Secure plug in place torque 8.5 N·m/75 in. lbs.
- 5. Insert 94528 Muffler into 94522 Muffler Cap. Install 94521 Muffler Base onto muffler cap.
- 6. Install 95438 O-Ring into groove on muffler base. Place 95375 O-Ring and 94526 Spacer into recessed area of muffler cap.

(continued on next page)

Disassembly/Assembly Instructions (continued)

- 7. Slip 94523 Inlet Adapter through muffler assembly and install 95711 Retainer Ring into groove on inlet adapter.
- 8. Install air control ring into housing.
- 9. Apply Loctite® #567 to threads of 94523 Inlet Adapter and install entire muffler assembly onto housing inlet (torque 23.0 N·m/200 in. lbs.).
- 10. Replace air fitting. Secure inlet adapter with a wrench before tightening air fitting.
- 11. Install throttle lever and 01017 Pin.

Tool Assembly is complete. Please allow 30 minutes for adhesives to cure before operating tool.

Important: Motor should now be tested for proper operation at 90 PSI. If motor does not operate properly or operates at a higher RPM than marked on the tool, the tool should be serviced to correct the cause before use. Before operating, place 2-3 drops of Dynabrade Air Lube (P/N 95842) directly into air inlet with throttle lever depressed. Operate tool for 30 seconds to determine if tool is operating properly and to allow lubricating oils to properly penetrate motor Loctite® is a registered trademark of Loctite Corp.

Optional Accessories



Dynaswivel®

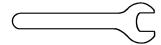
Swivels 360° at two locations which allows an air hose to drop straight to the floor, no matter how the tool is held.

- 94300 Composite Swivel 1/4" NPT.
- 95461 3/8" NPT.
- 95462 1/2" NPT.



96234 Motor Tune-Up Kit

 Includes assorted parts to help maintain motor in tip-top shape.



95281 Wrench - 19 mm



Visit our new Web Site at http://www.dynabrade.com