Parts Page Reorder No. PD04•53 Effective November, 2004

8" Random Orbital Buffer

Air Tool Manual - Safety, Operation and Maintenance

SAVE THIS DOCUMENT, EDUCATE ALL PERSONNEL

Models:

51445 - 8" Pad, Non-Vac



▲ WARNING

Read and understand this tool manual before operating your air tool. Follow all safety rules for the protection of operating personnel as well as adjacent areas. Always operate, inspect and maintain this tool in accordance with the American National Safety Institute (ANSI) Safety Code for Portable Air Tools – B186.1. For additional safety information, refer to Safety Requirements for the Use, Care and Protection of Abrasive Wheels – ANSI B7.1, Code of Federal Regulation – CFR 29 Part 1910, European Committee for Standards (EN) Hand Held Non-Electric Power Tools – Safety Requirements and applicable State and Local Regulations.

SAFETY LEGEND



A WARNING

Read and understand tool manual before work starts to reduce risk of injury to operator, visitors, and tool.



A WARNING

Eye protection must be worn at all times, eye protection to conform to ANSI Z87.1.



A WARNING

Respiratory protection to be used when exposed to contaminants that exceed the applicable threshold limit values required by law.

A WARNING

Practice safety requirements. Work alert, have proper attire, and do not operate tools under the influence of alcohol or drugs.



A WARNING

Ear protection to be worn when exposure to sound, exceeds the limits of applicable Federal, State or local statues, ordinances and/or regulations.



A WARNING

Air line hazard, pressurized supply lines and flexible hoses can cause serious injury. Do not use damaged, frayed or deteriorated air hoses and fittings.



SAFETY INSTRUCTIONS

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

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

Tool Intent: 8" Random Orbital Buffer is ideal for buffing and polishing of materials using cleaning and polishing accessories.

Do Not Use Tool For Anything Other Than Its Intended Applications.

This power tool is not intended for use in potentially explosive atmospheres and is not insulated against contact with electrical power.

Training: Proper care, maintenance, and storage of your tool will maximize performance.

• Employer's Responsibility - Provide 8" Random Orbital Buffer operators with safety instructions and training for safe use of tool and accessories.

Accessory Selection:

- Abrasive/accessory RPM (speed) rating MUST be approved for AT LEAST the tool RPM rating.
- Before mounting an accessory, inspect for defects. Do not use defective accessories.
- Use only recommended accessories. See back page of manual and Dynabrade catalog.
- Follow tool specifications before choosing size and type of accessory.
- Only use recommended fittings and air line sizes. Air supply hoses and air hose assemblies must have a minimum working pressure rating of 150 PSIG
 (10 Bars, g) or 150 percent of the maximum pressure produced in the system, whichever is higher. (See tool Machine Specifications table.)

OPERATING INSTRUCTIONS

Warning: Always wear eye protection. Operator of tool is responsible for following: accepted eye, face, respiratory, hearing and body protection.

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

Keep hand and clothing away from working end of the air tool.

Operation: Be sure that any loose clothing, hair and all jewelry is properly restrained.

- · Secure inlet bushing on air tool with a wrench before attempting to install the air fitting to avoid damaging housing assembly.
- BEFORE MOUNTING AN ACCESSORY, after all tool repairs and whenever a 8" Random Orbital Buffer is issued for use, check tool RPM (speed) with tachometer with air pressure set at 90 PSIG while the tool is running. If tool is operating at a higher speed than the RPM marked on the tool housing, or operating improperly, the tool must be serviced and corrected before use.

Caution: Tool RPM must never exceed abrasive/accessory RPM rating. Check accessory manufacturer for details on maximum operating speed or special mounting instructions.

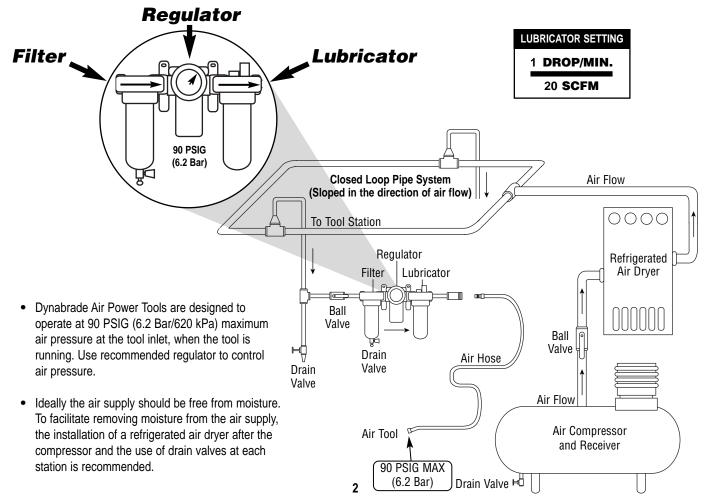
- With power source connected at the air tool relieve hose of air pressure and disconnect tool from air supply when changing recommended accessories.
- Connect air tool to power source. Be careful NOT to depress throttle lever in the process.
- Do not expose air tool to inlet pressure above 90 PSIG or (6.2 Bars).

Caution: After installing the accessory, before testing or use and/or after assembling tool, the 8" Random Orbital Buffer must be started at a reduced speed to check for good balance. Gradually increase tool speed. DO NOT USE if tool vibration is excessive. Correct cause, and retest to insure safe operation.

- Use only coated abrasive sanding discs or sheets properly secured to the backing pad provided with the air buffer. Ensure that self-fixing sanding discs are mounted concentrically.
- Make sure that work area is uncluttered, and visitors are at a safe range from the tools and debris. Potentially explosive atmospheres can be caused
 by dust and fumes resulting from sanding or grinding. Always use dust extraction or suppression systems which are suitable for the material
 being processed.
- · Proceed with caution in unfamiliar surroundings. Hidden hazards may exist, such as electricity or other utility lines.
- · Air tools are not intended for use in explosive atmospheres and are not insulated for contact with electric power sources.
- Use a vise or clamping device to hold work piece firmly in place.
- Work may generate hazardous dust.
- Do not apply excessive force on tool or apply "rough" treatment to it.
- · Always work with a firm footing, posture and proper lighting.
- Ensure that sparks and debris resulting from work do not create a hazard.
- · This tool is rear exhaust. Exhaust may contain lubricants, vane material, bearing grease, and other materials flushed thru the tool.

Report to your supervisor any condition of the tool, accessories, or operation you consider unsafe.

Air System



Maintenance Instructions

Important: A preventative maintenance program is recommended whenever portable power tools are used. The program should include inspection of air supply lines, air line pressure, proper lubrication and repair of tools. Refer to ANSI B186.1 for additional maintenance information.

- Use only genuine Dynabrade replacement parts to insure quality. To order replacement parts, specify Model#, Serial# and RPM of your air tool.
- It is strongly recommended that all Dynabrade rotary vane air tools be used with a Filter-Regulator-Lubricator to minimize the possibility of misuse due
 to unclean air, wet air or insufficient lubrication. Dynabrade recommends the following: 11405 Air Filter-Regulator-Lubricator (FRL) Provides accurate
 air pressure regulation and two stage filtration of water contaminants. Operates 40 SCFM @ 100 PSIG with 3/8" NPT female ports.
- Apply 3 plunges of 95542 Grease through grease fitting located on side of angle head with 95541 Grease Gun after every 100 Hours of use.
- Dynabrade recommends one drop of air lube per minute for each 20 SCFM (example: if the tool specification states 40 SCFM, set the drip rate on the
 filter-lubricator to 2 drops per minute). Dynabrade Air Lube (P/N 95842: 1 pt 473 ml) is recommended.

Routine Preventative Maintenance:

- Check the free speed of 8" Random Orbital Buffer by using a tachometer on regular basis.
- Mineral spirits are recommended when cleaning the tool and parts. Do not clean tool or parts with any solvents or oils containing acids, esters, ketones, chlorinated hydrocarbons or nitro carbons.
- <u>DO NOT</u> clean or maintain tools with chemicals that have a low flash point (example: WD-40°).
- A Motor Tune-Up Kit (P/N 98224) is available which includes high wear and medium wear motor parts.
- Air tool labels must be kept legible at all times, if not, reorder label(s) and replace. User is responsible for maintaining specification information i.e.:
 Model #, S/N, and RPM. (See Assembly Breakdown)
- Blow air supply hose out prior to initial use.
- Visually inspect air hoses and fittings for frays, visible damage and signs of deterioration. Replace damaged or worn components.
- Refer to Dynabrade's Warning/Safety Operating Instructions Tag (Reorder No. 95903) for safety information.

After maintenance is performed on tool, add a few drops of Dynabrade Air Lube (P/N 95842) to the air line and start the tool a few times to lubricate air motor. Check for excessive tool vibration.

Handling and Storage:

- · Use of tool rests, hangers and/or balancers is recommended.
- · Protect tool inlet from debris (see Notice below).
- <u>DO NOT</u> carry tool by air hose, or near the tool throttle lever.
- Protect abrasive accessories from exposure to water, solvents, high humidity, freezing temperature and extreme temperature changes.
- Store accessories in protective racks or compartments to prevent damage.

Machine Specifications

Model	Motor	Motor	Pad Dia.	Sound	Maximum Air Flow	Hose I.D. Size		Weight	Length	Height
Number	hp (W)	RPM	Inch (mm)	Level	CFM/SCFM (LPM)	Inch or (mm)		Pound (kg)	Inch (mm)	Inch (mm)
51445	.7 (522)	2,500	8 (177)	87 dB(A)	3/27 (765)	3/8 or 10	1/4" NPT	7.8 (3.5)	14-3/8 (366)	6-1/8 (156)

Additional Specifications: Air Pressure 90 PSIG (6.2 Bar)

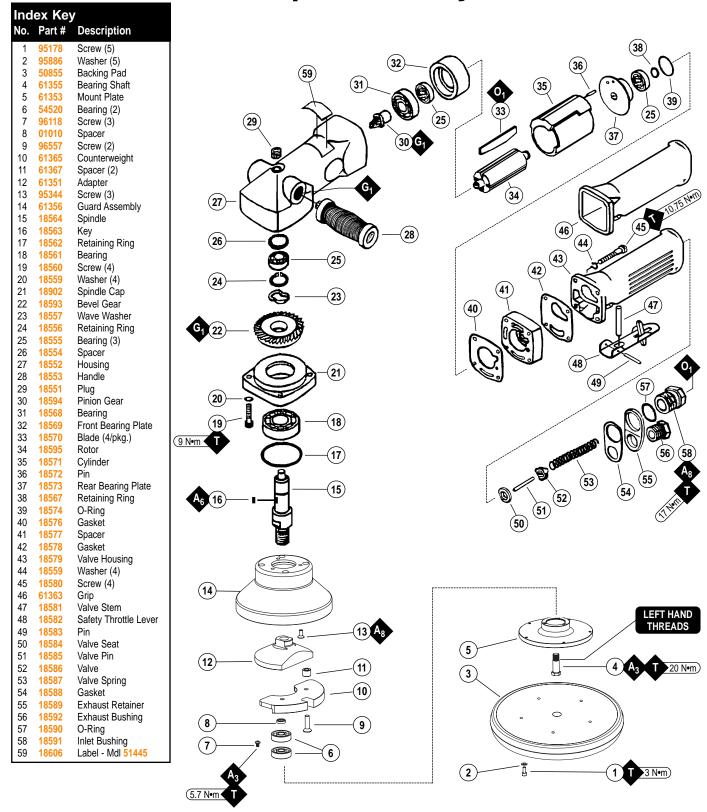
Notice

All Dynabrade motors use the highest quality parts and materials 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.

8" Random Orbital Buffer Complete Assembly



Assembly/Disassembly Instructions

Important: The manufactures warranty is void if the tool is disassembled before the warranty expires. An air motor Tune-Up Kit, Part Number 98224 is also available. It contains the high and medium wear components that most commonly need replacement.

Orbital Head Disassembly:

- 1. Shut off the air supply and disconnect the buffer from the air supply hose.
- 2. Use the 95134 (9/64") Hex Key to remove the 95178 Screws (5), 95886 Washers (5) and the 50855 Backing Pad.
- 3. Hold the 18552 Housing in a vise with bronze or aluminum jaws so that the orbital head assembly is facing up.
- 4. Insert the 95281 (19mm) Wrench through the access opening in the 61356 Guard Assembly to hold the 18564 Spindle stationary.
- 5. Use the 96034 (12mm) Hex Key to turn the orbital head assembly counterclockwise to remove it from the spindle.
- Use the 95266 (3mm) Hex Key to remove the 95344 Screws (3) by turning them counterclockwise. Remove the 61356 Guard Assembly.
- Remove the tool from the vise and hold the wrench flats of the 61351 Adapter in the vise. Use a 1/2" socket to remove the 61355 Bearing Shaft by turning it clockwise. (LEFT HAND THREADS)
- 8. Use a T-20 TORX® bit to remove the 96118 Screws from the 61353 Mount Plate.
- 9. Use the 96242 Bearing Press Tool and the 96232 Arbor Press to remove the 54520 Bearings (2) from the 61353 Mount Plate.

Orbital Head Disassembly Complete.

Motor Disassembly:

- 1. Shut off the air supply to the buffer and disconnect the buffer from the air supply.
- 2. Hold the 18552 Housing in a vise with bronze or aluminum jaws so that the 18579 Valve Housing is pointing up.
- 3. Pull the 61363 Grip off the 18579 Valve Housing. Note: A "Hot Air Gun" can be used to warm the 61363 Grip, making it more flexible.
- Use the 95331 (4mm) Hex Key to remove the 18580 Screws (4), 18559 Washers (4), 18579 Housing, 18578 Gasket, 18577 Spacer, 18574 O-Ring and 18576 Gasket.
- 5. Carefully slide the air motor out of the 18579 Housing. Note: A "Hot Air Gun" can be used to warm and expand the 18579 Housing.
- 6. Use the 96343 Retaining Ring Pliers to remove the 18567 Retaining Ring.
- 7. Fasten the 96346, (2") Bearing Separator carefully between the 18573 Rear Bearing Plate and the 18571 Cylinder and place the separator on the table of the 96232, (#2) Arbor Press so that the 18594 Pinion Gear is pointing down.
- 8. Use a 3/16" dia. flat end drive punch as a press tool to push the 18595 Rotor out of the 18555 Bearing.
- 9. Use the 96213 Bearing Removal Tool and the arbor press to push the 18555 Bearing out of the 18573 Rear Bearing Plate.
- 10. Fasten the bearing separator around the flange of the 18594 Pinion Gear so that the flat side of the separator is against the 18568 Bearing. With a downward motion strike the flat side of the separator against the table of the arbor press several times. The 18568 Bearing will slide out of the 18569 Front Bearing Plate.
- 11. Use a 3/16" dia. flat end drive punch as a press tool and the arbor press to push the 18594 Pinion Gear out of the 18568 Bearing.
- 12. Use a 3/16" dia. flat end drive punch as a press tool and the arbor press to push the 18595 Rotor out of the front 18555 Bearing. Use the 96213 Bearing Removal Tool and the arbor press to push the 18555 Bearing out of the 18569 Front Bearing Plate.

Motor Disassembly Complete.

Right-Angle Gear Disassembly:

- 1. Use the 95331 (4mm) Hex Key to remove the 18560 Screws (4), and 18559 Washers (4).
- Fasten the 96346 Bearing Separator under the 18555 Bearing and use a 3/16" dia. flat end drive punch and the 96232 (#2) Arbor Press to push the bearing from the 18564 Spindle.
- 3. Use the 96343 Retaining Ring Pliers to remove the 18556 Retaining Ring, 18557 Wave Washer, 18593 Bevel Gear, and 18563 Key.
- 4. Use the 96343 Retaining Ring Pliers to remove the 18562 Retaining Ring, and pull the spindle along with the 18561 Bearing out of the 18902 Spindle Cap.
- 5. Place the 18561 Bearing on the tool plate of the arbor press and push the 18564 Spindle out of the bearing.

Right-Angle Gear Disassembly Complete.

Motor Assembly:

- Use the raised outer portion of the 96240 Bearing Press Tool to install the 18555 Bearing into the 18569 Front Bearing Plate.
 Note: Use the 96232 (#2) Arbor Press.
- 2. Position the 18595 Rotor on the 96231 Tool Plate of the 96232 (#2) Arbor Press so that the rear portion of the rotor body is flat on the tool plate and the spline end is pointing up. Use the 18571 Cylinder as a jig. Place the cylinder over the rotor so that it is also setting on the tool plate. Slip the front bearing/plate assembly over the spline end of the rotor and use the raised center portion of the 96240 Bearing Press Tool to install the front bearing/plate assembly onto the 18595 Rotor. Note: Use approximately 3 lbs. (1364 g.) of force. Remove the rotor with the bearing/plate assembly from the arbor press. Use a .001" (.03mm) thick feeler gage to check the fit of the bearing plate to the face of the rotor. The clearance between the bearing plate and the face of the rotor should be .001" to .0015" (.03 .04mm).
- 3. Place the 18568 Bearing flat on the tool plate of the arbor press and install the 18594 Pinion Gear into the inner race of the bearing.
- 4. Place the 18569 Front Bearing Plate flat on the tool plate of the arbor press so that the rotor is hanging down. Set the 18568 Bearing on the opening of the 18569 Front Bearing Plate so that the pinion gear is pointing up. Place one end of the 18571 Cylinder against the outer race of the 18568 Bearing and using the cylinder as a press tool, push the 18568 Bearing into the front bearing plate.
- 5. Apply a small amount of the 95842 Dynabrade Air Lube (10W/NR or equivalent) to the 18570 Blades (4) and install them into the 18595 Rotor.
- 6. Place the 18573 Rear Bearing Plate flat on the tool plate of the arbor press and use the raised outer portion of the 96240 Bearing Press Tool to install the 18555 Bearing into the rear bearing plate.
- 7. Position the end of the 18594 Pinion Gear on the tool plate of the arbor press and place the rear bearing/plate assembly on the rear bearing journal of the rotor. **Note:** Make sure that the cylinder line-up pin 18572 aligns with the hole in the rear bearing plate.

Assembly/Disassembly Instructions - (Continued)

- 8. Use the raised inner portion of the 96240 Bearing Press Tool and the arbor press to push the 18555 Bearing along with the rear bearing plate down onto the rotor until the bearing plate touches the cylinder. This should create a snug fit between the bearing plates and the cylinder. If the fit is too loose, add a slight bit more press (preload). Note: A "snug" fit allows the cylinder to be shifted back and forth with a small amount of finger pressure. However, the fit is not loose or sloppy.
- 9. Use the 96343 Retaining Ring Pliers to install the 18567 Retaining Ring onto the rotor.
- 10. Hold the 18552 Housing in a vise with bronze or aluminum jaws so that the motor opening is pointing up.
- 11. With the bearing plates and the cylinder aligned, apply a film of oil to the outside diameter of the motor. Orient the motor according to the exhaust passage in the 18552 housing and the 18579 Valve Housing. Carefully slide the motor into the 18552 Housing. Note: It may be necessary to warm the housing with a hot air gun. This will expand the housing and facilitate the installation of the motor.
- 12. Install the 18576 Gasket, 18577 Spacer and 18578 Gasket. These must align with the 18572 Pin, air inlet and exhaust openings.
- 13. Orient and install the 18579 Valve Housing so that the air inlet and exhaust openings align correctly.
- 14. Use the 95331 (4mm) Hex Key to secure the valve housing to the 18552 Housing with the 18559 Washers (4) and the 18580 Screws (4). (Torque to 10.75 N⋅m/95 in. lbs.)
- 15. Install the 61363 Boot onto the 18579 Housing. Note: A "Hot Air Gun" can be used to warm the 61363 Boot, making it more flexible.
- 16. Install an air fitting into the 18591 Inlet Bushing and connect to the air supply. Test the air motor for proper operation.

Motor Assembly Complete.

Right-Angle Gear Assembly:

- 1. Wipe off the surface of the 96231 Tool Plate to make sure that it is clean. Place the open side of the 18561 Bearing on the tool plate so that the inner race is supported. Position the 18564 Spindle into the bearing so that the threaded end is pointing up. Press the spindle and the bearing together.
- 2. Place the 18902 Spindle Cap on the tool plate so that the open side of the bearing pocket is facing up.
- 3. Position the spindle with the bearing on the spindle cap so that the threaded end of the spindle is pointing up. Press the spindle with bearing all the way into the spindle cap.
- 4. Use the 96343 Retaining Ring Pliers to install the 18562 Retaining Ring.
- 5. Clean the keyway of the spindle with a swab moistened with acetone. Also, clean the 18563 Key with acetone and apply a small amount of Loctite #380 (or equivalent) to the keyway. Install the key and let the adhesive set.
- 6. Install and press the 18593 Bevel Gear onto the 18564 Spindle. Apply a small amount of the 95542 Grease to the bevel gear and pinion.
- 7. Install the 18557 Wave Washer and use the retaining ring pliers to install the 18556 Retaining Ring.
- 8. Place the threaded portion of the 18564 Spindle on the tool plate of the arbor press and use the raised center portion of the 96240 Bearing Press Tool to press the 18555 Bearing onto the spindle.
- 9. Install the 18554 Spacer into the 18552 Housing so that the raised outer portion of the spacer will be against the outer race of the 18555 Bearing.
- 10. Orient the air bleed notch of the spindle cap toward the throttle lever and install the spindle assembly into the housing. Check the fit of the gears for smooth rotation.
- 11. Use the 95331 (4mm) Hex Key to install the 18560 Screws (4), and 18559 Washers (4). (Torque to 9 N·m/80 in. lbs.)
- 12. Apply 3 plunges of the 95542 Grease through the grease fitting with the 95541 Grease Gun initially and after every 100 hours of use.

Right-Angle Gear Assembly Complete.

Orbital Head Assembly:

- 1. Use one of the old 54520 Bearings as a press tool and the 96232 Arbor Press (#2) to install the two new bearings into the 61353 Mount Plate.
- 2. Apply a small amount of the Loctite #243 (or equivalent) to the threads of the 96118 Screws (3) and use a T-20 TORX® bit to install the 96118 Screws into the 61353 Mount Plate. (Torque to 5.7 N·m/50 in. lbs.)
- 3. Hold the wrench flats of the 61351 Adapter in the vise with bronze or aluminum jaws so that the counterweight is facing up. Insert the 61355 Bearing Shaft through the two 54520 Bearings. Place the 01010 Spacer onto the bearing shaft. Apply a small amount of the Loctite #243 (or equivalent) to the threads of the bearing shaft. Use a 1/2" socket to install the bearing shaft by turning it counterclockwise. (Torque to 20 N·m/180 in. lbs.) (LEFT HAND THREADS)
- **4.** Remove the 61351 Adapter from the vise and hold the 18579 Housing in a vise with bronze or aluminum jaws so that the 18564 Spindle is pointing up.
- 5. Use the 95266 (3mm) Hex Key to install the Guard Assembly. Apply a small amount of the Loctite #567 (or equivalent) to the threads of the 95344 Screws (3). Fasten the guard assembly to the spindle cap, with the screws.
- 6. Insert the 95281 (19mm) Wrench through the access opening in the 61356 Guard Assembly to hold the 18564 Spindle stationary.
- 7. Use the 96034 (12mm) Hex Key to install the orbital head assembly onto the spindle.
- 8. Install the 50855 Backing Pad and use the 95134 (9/64") Hex Key to fasten it with the 95178 Screws (5), and 95886 Washers (5).
- 9. Connect the buffer to the air supply hose and check the buffer for proper operation.

Orbital Head Assembly Complete.

Buffer Assembly Complete. Please allow 30 minutes for adhesives to cure before operating tool.

Important: Motor should now be tested for proper operation at 90 PSIG. 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 permeate motor.

Loctite® is a registered trademark of Loctite Corp.

Preventative Maintenance Schedule

For All 8" Random Orbital Buffer

This service chart is published as a guide to expectant life of component parts. The replacement levels are based on average tool usage over one year. Dynabrade Inc. considers one year usage to be 1,000 hours or 50% of a man year.

Parts Common to all Models:

LEGEND					
Т	Included in Tune-Up Kit				
Х	Type of wear, no other comments apply.				
L	Easily lost. Care during assembly/disassembly.				
D	Easily damaged during assembly/disassembly.				
R	Replace each time tool is disassembled.				



98224 - Motor Tune-Up Kit

Parts Common to all Models:										
Index	Part	Description	Number	High Wear	Medium Wear	Low Wear	Non-Wear			
#	Number	•	Required		70%	30%	10%			
1	95178	Screw	5			L				
2	95886	Washer	See Note			Ĺ				
3	50855	Backing Pad	1			X				
4	61355	Bearing Shaft	1			X				
5	61353	Mount Plate	1			X				
6	54520	Bearing	2		T	^				
7	96118	Screw	3			L				
8	01010	Spacer	1			Ē				
9	96557	Screw	2			Ĺ				
10	61365	Counterweight	1			X				
11	61367	Spacer	2			X				
12	61351	Adapter	1			X				
13	95344	Screw	3			Ĺ				
14	61356	Guard Assembly	1			X				
15	18564	Spindle	1			X				
16	18563	Key	1			Ĺ				
17	18562	Retaining Ring	1		T	_				
18	18561	Bearing	1		Ť					
19	18560	Screw	4			L				
20	18559	Washer	4			Ĺ				
21	18902	Spindle Cap	1			X				
22	18593	Bevel Gear	1			X				
23	18557	Wave Washer	1			Ĺ				
24	18556	Retaining Ring	1			D				
25	18555	Bearing	3		Т	D				
26	18554	Spacer	1			Χ				
27	18552	Housing	1			X				
28	18553	Handle	1			X				
29	18551	Plug	1			X				
30	18594	Pinion Gear	1			X				
31	18568	Bearing	1		T	^				
32	18569	Front Bearing Plate	1			χ				
33	18570	Blade (4/pkg.)	4	Т		^				
34	18595	Rotor	1			Х				
35	18571	Cylinder	1			X				
36	18572	Pin	1			X				
37	18573	Rear Bearing Plate	1			X				
38	18567	Retaining Ring	1			D				
39	18574	O-Ring	1		T	U				
40	18576	Gasket	1		T					
40	18577		1		•	Х				
		Spacer Gasket	1		т	۸				
42	18578 18579	Gasket Valve Housing	1		'	Х				
43	18559	Washer	4			Ĺ				
45	18580	Screw	4			X				
46	61363	Grip	1			X				
47	18581	Valve Stem	1			X				
48	18582	Safety Throttle Lever	1			Ĺ				
48	18583	Pin	1			L				
50	18584	Valve Seat	1			X				
51	18584 18585	Valve Seat Valve Pin	1			X				
52	18586	Valve Valve	1			X				
			1			X				
53	18587	Valve Spring Gasket	1			X				
54	18588	Exhaust Retainer				٨	v			
55	18589		1				X			
56	18592	Exhaust Bushing	1				X			
57 58	18590 18591	O-Ring Inlet Bushing	1				X			
						v	^			
59	See Note	Label	1			X				

Note: Please refer to page 4 of tool manual for specific part number or number required.

Optional Accessories



98224 Motor Tune-Up Kit

· Includes assorted parts to help maintain and repair motor.



95542 Grease 10 oz.

- · Multi-purpose grease for all types of bearings, cams, gears.
- · High film strength; excellent resistance to water, steam, etc.
- Workable range 0° F to 300° F.

95541 Push-type Grease Gun

· One-hand operation.



Dynabrade Air Lube

- Formulated for pneumatic equipment.
- Absorbs up to 10% of its weight in water.
- Prevents rust and formation of sludge.
- · Keeps pneumatic tools operating longer with greater power and less down time.

95842: 1pt. (473 ml) 95843: 1 gal. (3.8 L)

Special Repair Tools

Note: Not Shown, Mentioned In Assembly/Disassembly Instructions

96242 Bearing Press Tool

96232 (#2) Arbor Press

96346 (2") Bearing Separator

96213 Bearing Removal Tool

96240 Bearing Press Tool

96231 Tool Plate

96034 12mm Hex Key

Reference Contact Information

1. American National Safety Institute - ANSI 25 West 43rd Street

Forth Floor New York, NY 10036

Tel: 1 (212) 642-4900 Fax: 1 (212) 398-0023

2. Government Printing Office - GPO

Superintendent of Documents

Attn. New Orders P.O. Box 371954

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3. European Committee for Standardization

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