

2" Dia. Vacuum Disc Sanders

Air Tool Manual – Safety, Operation and Maintenance

SAVE THIS DOCUMENT, EDUCATE ALL PERSONNEL

51235 – 25,000 RPM, Self-Generated Vacuum
1" O.D. Port
2" (51mm) Discs Maximum

51236 – 25,000 RPM, Central Vacuum
1-1/4" I.D. Threaded Hose Cuff
2" (51mm) Discs Maximum



Model 51236 Shown

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⚠ 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 Standards 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

	⚠ WARNING Read and understand tool manual before work starts to reduce risk of injury to operator, visitors, and tool.	⚠ WARNING Practice safety requirements. Work alert, have proper attire, and do not operate tools under the influence of alcohol or drugs.	
	⚠ WARNING Eye protection must be worn at all times, eye protection to conform to ANSI Z87.1.	⚠ WARNING Ear protection to be worn when exposure to sound, exceeds the limits of applicable Federal, State or local statutes, ordinances and/or regulations.	
	⚠ WARNING Respiratory protection to be used when exposed to contaminants that exceed the applicable threshold limit values required by law.	⚠ 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.	

⚠ WARNING

Some dust created by sanding, grinding, drilling, and other construction activities contain chemicals known to cause cancer, birth defects or other reproductive harm. Some examples of these chemicals are:

- Lead from lead-based paints
- Crystalline silica from bricks and cement and other masonry products
- Arsenic and chromium from chemically treated lumber

Your risk from these exposures varies, depending on how often you do this type of work. To reduce your exposure to these chemicals: work in a well ventilated area, and work with approved safety equipment, such as those dust masks that are specially designed to filter out microscopic particles.

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: Vacuum Disc Sander is ideal for coatings removal in non-ferrous metal and non-spark applications.

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 air tools will maximize their performance.

- Employer's Responsibility – Provide Vacuum Disc Sander operators with safety instructions and training for safe use of tools and accessories.

Accessory Selection:

- Use only 2" Locking-Type Sanding Discs.
- Abrasive/accessory RPM (speed) rating MUST be approved for AT LEAST the tool RPM rating.
- Before mounting an accessory, visually inspect for defects. Do not use defective accessories.
- Mount only recommended accessories. Reference Dynabrade catalog and this tool manual.
- DO NOT USE -grinding wheels or cut-off wheels.

SAFETY INSTRUCTIONS CONT.

- Follow tool specifications before choosing size and type of accessory.
- Only use recommended fittings and air line sizes. Air supply hoses and air hose accessories must have a minimum working pressure 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 personal protective equipment. Operator of tool is responsible for the 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.
- Working end of tool has a potential of cutting and severing.

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

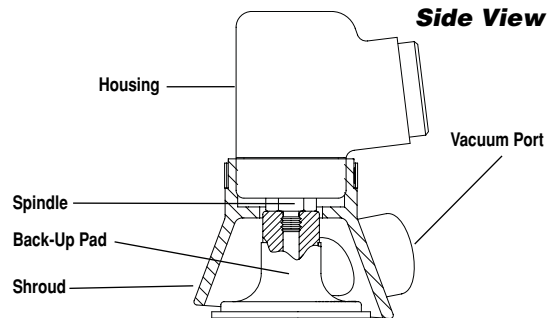
- Secure inlet bushing on air tool with a wrench before attempting to install the air fitting to avoid damaging housing assembly.
- BEFORE MOUNTING A BACK-UP PAD, after all tool repairs and whenever a Vacuum Disc Sander is issued for use, check tool RPM (speed) with tachometer with air pressure set at 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.

- Disconnect air hose from tool when changing abrasive discs.

Back-Up Pad/Abrasive Mounting

- Disconnect air source from the tool.
- Secure spindle with wrench.
- Thread back-up pad onto spindle securely.
- Check mounting by rotating spindle, make certain abrasive disc is concentrically mounted and back-up pad is not excessively warped.



- 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 Vacuum Disc Sander 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. Test tool at its free speed (RPM) in a protected area for at least one minute before applying the tool to the work.

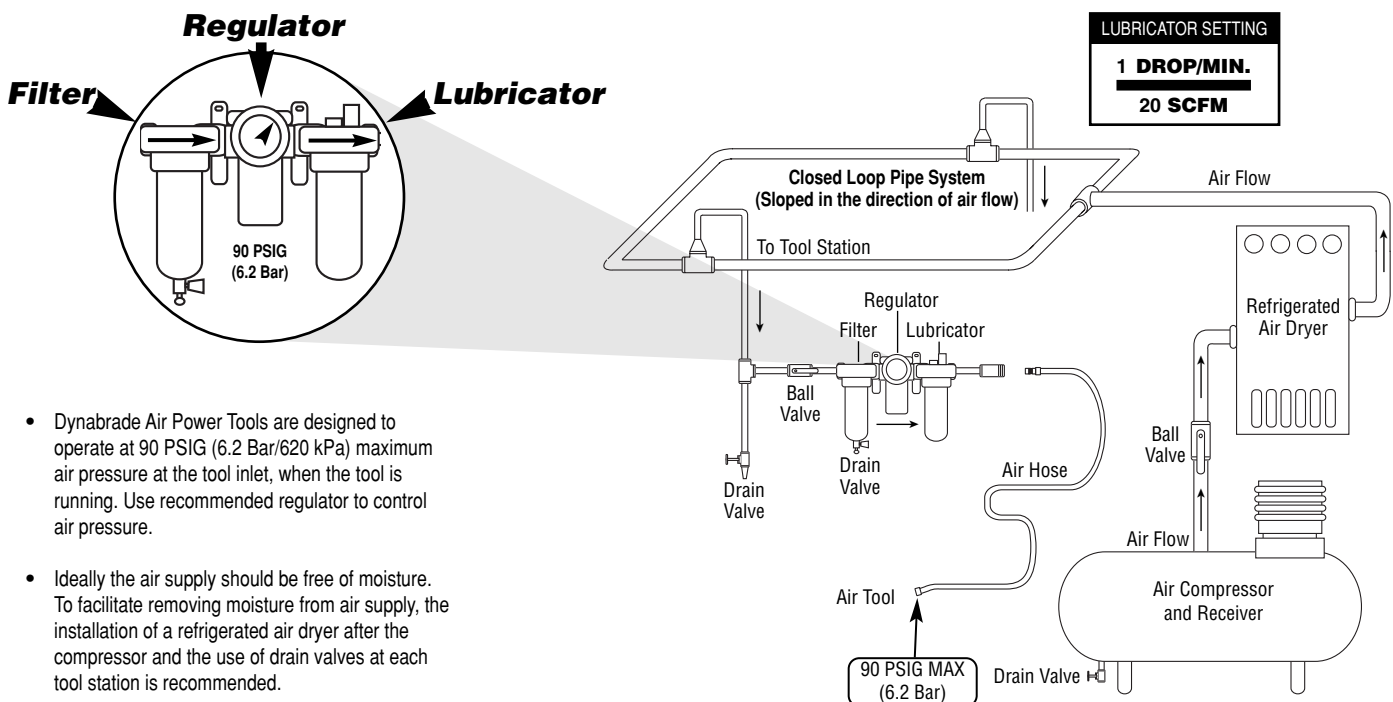
- Release throttle lever when air supply is interrupted.
- Make sure that work area is uncluttered, and visitors are at a safe range from the tools and debris.
- Air tools are not intended for use in explosive atmospheres and are not insulated for contact with electric power sources.
- Use a vise or clamping device to hold work piece firmly in place.
- 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 does not create a hazard.
- USE ONLY ON NON-FERROUS MATERIALS.
- This tool has rear exhaust. Exhaust may contain lubricants, vane material, bearing grease, and other materials flushed thru the tool.

Warning: Sanding certain materials can create explosive dust. It is the employers responsibility to notify the user of acceptable dust levels.

- Sanding certain materials can cause sparks which can cause fires or explosions. It is the users responsibility to make sure the work area is free of flammable materials.
- Always use dust extraction or suppression systems which are suitable for the materials being processed.

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

Air System



- Dynabrade Air Power Tools are designed to operate at 90 PSIG (6.2 Bar/620 kPa) maximum air pressure at the tool inlet, when the tool is running. Use recommended regulator to control air pressure.
- Ideally the air supply should be free of moisture. To facilitate removing moisture from air supply, the installation of a refrigerated air dryer after the compressor and the use of drain valves at each tool station is recommended.

Maintenance Instructions

Important: To keep tool safe 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: **10681** Air Line Filter-Regulator-Lubricator — Provides accurate air pressure regulation, two-stage filtration of water contaminants and micro-mist lubrication of pneumatic components.
- 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 free speed of tool regularly using a tachometer and after repair and maintenance. Remove abrasive and back-up pad before testing.
- Inspect back-up pad regularly for nicks, cuts, sharp edges, flatness and runout. Replace damaged or worn back-up pad with genuine Dynabrade back-up pad.
- Inspect shroud for wear or damage. Shrouds that are severely worn or subject to a disc breakage must be replaced.
- Inspect accessories before mounting. Do not mount accessories that are damaged or cracked.
- Check accessory - speed rating. Rating on accessory must be greater than the tool speed marked on the housing.
- If accessory breakage occurs, investigate to determine the cause and correct before issuing tool for work.

- Mineral spirits are recommended when cleaning the tool and parts. Do not clean tool or parts with any solvents or oils containing acids, ester, ketone, chlorinated hydrocarbons or nitro carbons.
- **DO NOT** clean or maintain tools with chemicals that have a low flash point (example: WD-40®).
- A Motor Tune-Up Kit (P/N **96049**) 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 tool vibration before mounting abrasive wheel accessory.

Handling and Storage:

- Use of tool rests, hangers and/or balancers is recommended.
- Protect tool inlet from debris (see Notice below).
- **DO NOT** carry tool by air hose or near the tool throttle lever.
- Protect tool from exposure to water, solvents, high humidity, freezing temperature and extreme temperature changes.
- **DO NOT USE** accessories that have been dropped or show signs of cracks, nicks or other defects.
- Store accessories in protective racks or compartments to prevent damage.
- Store abrasive discs prior to use at 40-50% relative humidity and 60-80°F (15-27°C) to reduce curling.

Machine Specifications

Model Number	Motor hp (W)	Motor RPM	Sound Level	Maximum Air Flow SCFM (LPM)	Spindle Thread	Air Pressure PSIG (Bars)	Weight Pound (kg)	Length Inch (mm)	Height Inch (mm)
51235	.4 (276)	25,000	92 dB(A)	20 (566)	1/4"-20 male	90 (6.2)	1.4 (.6)	9-3/4 (249)	3-7/8 (98)
51236	.4 (276)	25,000	81 dB(A)	20 (566)	1/4"-20 male	90 (6.2)	1.7 (.7)	10-1/4 (261)	3-7/8 (98)

Additional Specifications: Air Inlet Thread 1/4" NPT • Hose I.D. 1/4" (6mm)

Sound Level is the pressure measurement according to the method outlined in ISO regulation ISO-15744.

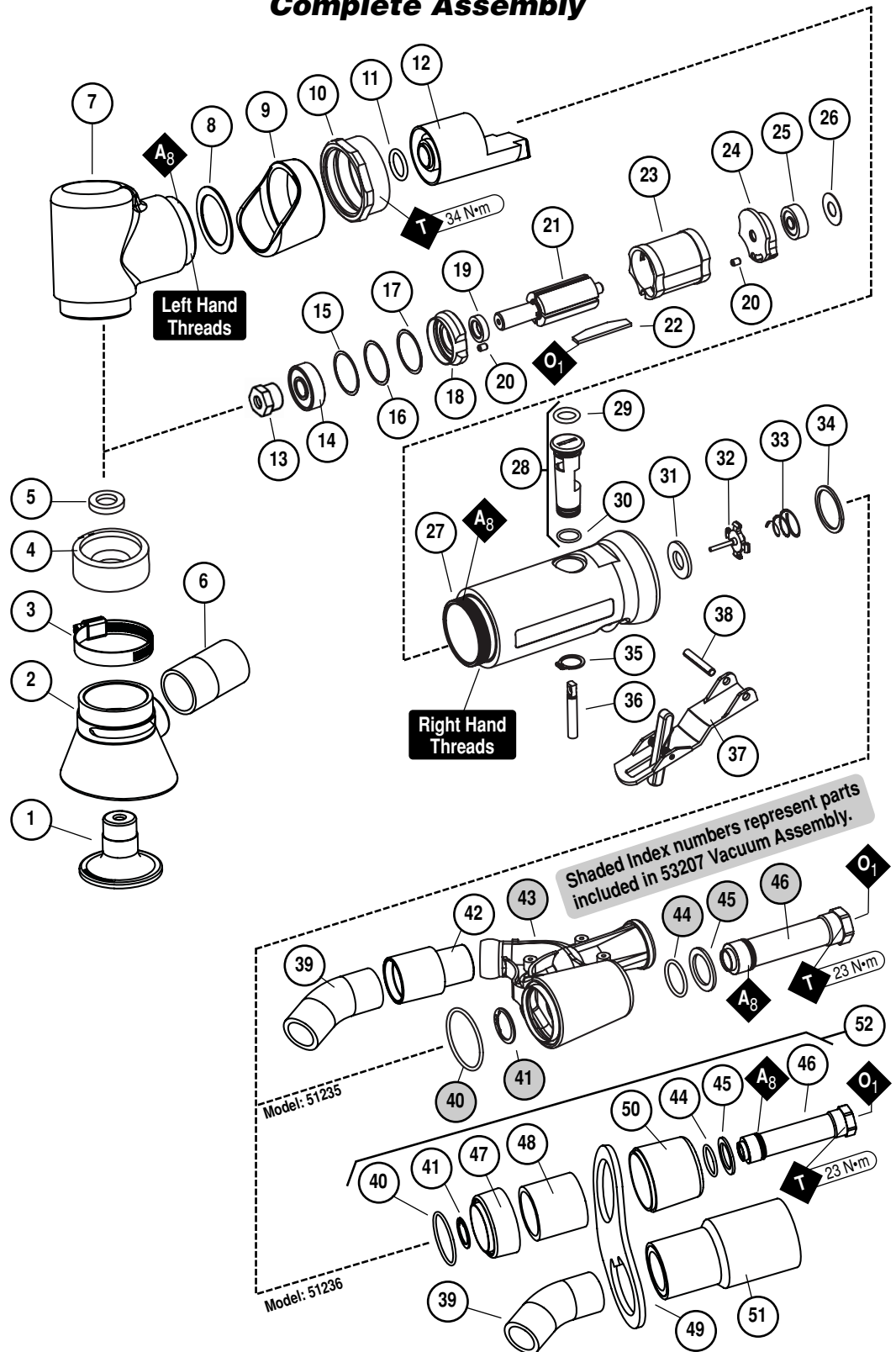
Warning: Ear protection to be worn when exposure to sound exceeds the limits of applicable Federal, State or local statutes, ordinances and/or regulations.

Models:
51235, 51236

2" Dia. Vacuum Disc Sanders Complete Assembly

Index Key

No.	Part #	Description
1	51344	Pad
2	52742	Shroud
3	97326	Clamp
4	01560	Exhaust Cover
5	01580	Felt Seal
6	97180	Vac. Hose Cuff (1") (Conductive)
7	01546	7" Housing
8	01548	Gasket
9	01558	Collar
10	01461	Lock Nut
11	95523	O-Ring
12	01470	Insert
13	50133	Adapter
14	02649	Bearing
15	54543	Shim
16	54544	Shim
17	54551	Shim
18	01478	Bearing Plate
19	01479	Spacer
20	50767	Pin (2)
21	01392	Rotor
22	01480	Blade (4/pkg.)
23	01476	Cylinder
24	02676	Bearing Plate
25	02696	Bearing
26	02679	Shield
27	02228	Housing - Mdl: 51235
28	02229	Housing - Mdl: 51236
29	01469	Speed Regulator Assy.
30	01024	O-Ring
31	95730	O-Ring
32	01464	Seal
33	01472	Tip Valve
34	01468	Spring
35	01564	Air Control Ring
36	95558	Retaining Ring
37	01449	Valve Stem
38	01462	Safety-Lock Lever
39	12132	Pin
40	96584	Vac. Hose - Gray (Non-Conductive)
41	31938	Vac. Hose - Black (Conductive)
42	95438	O-Ring
43	95711	Retaining Ring
44	95601	Hose Cuff - Gray (Non-Conductive)
45	94532	Vacuum Adapter
46	95375	O-Ring
47	94526	Spacer
48	94523	Inlet Adapter
49	94521	Muffler Base
50	94528	Silencer
51	97161	Vacuum Hose Retainer
52	94522	Muffler Cap
53	31907	Vac. Hose Cuff (1-1/4")
54	94519	Muffler Assembly



96076 12mm Wrench

KEY	
O	Oil: O ₁ = Air Lube
W	Wicking: W ₁ = Gear Oil
A	Adhesive: A ₄ = Loctite #680 A ₈ = Loctite #567
T	Torque: N·m x 8.85 = In. - lbs.

Disassembly/Assembly Instructions

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

Notice: Dynabrade strongly recommends the use of their 52296 Repair Collar (sold separately) during assembly/disassembly activities. Failure to use this collar will highly increase the risk of damage to the valve body of this tool. Please refer to parts breakdown for part identification.

To Disassemble:

1. Disconnect tool from power source.
2. Secure air tool in vise using **52296** Repair Collar.
3. Remove **51344** Back-Up Pad. Take off **52742** Shroud by unscrewing **97326** Clamp.
4. With an adjustable pin wrench or **50971** Lock Ring Tool, remove **01560** Exhaust Cover by turning counter-clockwise.
5. Pull motor assembly from housing.
6. Reposition motor housing in vise so inlet bushing is facing upwards.
7. Remove **94523** Inlet Bushing and muffler assembly from valve body housing. Using needle nose pliers, remove spring, tip valve and seal.
8. Remove **95711** Retaining Ring from inlet adapter and disassemble muffler assembly.
9. Using a 2.5mm diameter drift pin and a hammer, tap **12132** Pin out from housing and remove throttle lever.
10. Remove **95558** Retaining Ring and push **01469** Speed Regulator from housing.

Motor Disassembly:

1. Remove **50133** Adapter from rotor shaft by inserting 3mm hex wrench through adapter and into rotor shaft. Twist adapter from shaft.
2. Remove **01478** Front Bearing Plate, cylinder, blades (4) and **01479** Spacer from rotor. **Note:** **02649** Bearing is a slip fit into **01478** Front Bearing Plate.
3. Press rotor from **02673** Rear Bearing Plate. Press **02696** Bearing from rear bearing plate. (**96210** Bearing Removal Press Tool is available.)

Motor Disassembly Complete.

Motor Assembly:

Important: Be sure parts are clean and in good repair before assembling.

1. Place **01594** Rotor in padded vise with threaded spindle facing upwards.
2. Slip **01479** Spacer onto rotor.
3. Place a .002" shim into **01478** Front Bearing Plate as an initial spacing (**Note:** **54529** Shim Pack contains .001" and .002" shims) and slip **02649** Bearing into plate.
4. Install bearing/bearing plate assembly onto rotor.
5. Tighten **50133** Adapter onto rotor (torque to 17 N•m/150 in. - lbs.).
6. 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 1-5 with different shim if necessary.
7. Once proper rotor/gap clearance is achieved, install well lubricated **01480** Blades (4) into rotor slots. Dynabrade Air Lube P/N **95842** is recommended for lubrication.
8. Install cylinder over rotor. Be sure air inlet holes of cylinder face away from front bearing plate and that the pin in the front bearing plate aligns correctly with the pin-hole in the cylinder.
9. Press against outer race of **02696** Rear Bearing and install into **02673** Rear Bearing Plate (**96242** Bearing Press Tool available). 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. A loose fit will not achieve the proper preload of motor bearings. 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.
10. Secure motor housing in vise using **52296** Repair Collar with motor cavity facing upwards.
11. Install motor assembly into housing. Be sure motor drops all the way into housing.
12. Insert **01580** Silencer into **01560** Exhaust Cover and install onto motor housing. Apply #567 Loctite (or equivalent) to housing threads. Torque to 28 N•m/250 in. - lbs.
13. Motor adjustment must now be checked. With motor housing still mounted in vise, pull end of rotor and twist (10-15 lbs. force), rotor should turn freely without drag. If drag or rub is felt, then increase preload or remove shim. Also, push end of rotor and twist (10-15 lbs. force), rotor should turn freely without drag. If drag or rub is felt, then deload or add shim.
14. Place **52742** Shroud onto housing and fasten **97326** Clamp.
15. Install **51344** Pad and abrasive.

Motor Assembly Complete.

Disassembly/Assembly Instructions - (continued)

Valve Body Assembly:

1. Insert **01469** Speed Regulator with valve stem and o-rings installed, into housing, secure with **95558** Retaining Ring.
2. Place seal into housing. Using tweezers or needle nose pliers, place the tip valve into the housing so that the pin goes into the valve stem hole of regulator assembly.
3. Place **01468** Spring into housing with small end towards valve assembly.
4. Assemble muffler assembly. Slip **94523** Inlet Adapter through muffler assembly and secure with **95711** Retaining Ring.
5. Install air control ring into valve body housing.
6. Apply #567 Loctite PST Pipe Sealant (or equivalent) to threads of inlet bushing and install muffler assembly onto valve body (torque 23.0 N•m/200 in. lbs.).
7. Install throttle lever and **12132** Pin. Remove from vise.

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

Important: 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. 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.

Loctite® is a registered trademark of Loctite Corp.

Lifetime Warranty

All Dynabrade portable pneumatic power tools are rigorously inspected and performance tested in our factory before shipping to our customers. If a Dynabrade tool develops a performance problem and an inherent defect is found during normal use and service, Dynabrade will warrant this tool against defects in workmanship and materials for the lifetime of the tool. Upon examination and review at our factory, Dynabrade shall confirm that the tool qualifies for warranty status, and will repair or replace the tool at no charge to the customer. Normally wearable parts and products are NOT covered under this warranty. Uncovered items include bearings, contact wheels, rotor blades, regulators, valve stems, levers, shrouds, guards, O-rings, seals, gaskets and other wearable parts. Dynabrade's warranty policy is contingent upon proper use of our tools in accordance with factory recommendations, instructions and safety practices. It shall not apply to equipment that has been subjected to misuse, negligence, accident or tampering in any way so as to affect its normal performance. To activate lifetime warranty, customer must register each tool at www.dynabrade.com. Dynabrade will not honor lifetime warranty on unregistered tools. A one-year warranty will be honored on all unregistered portable pneumatic power tools. Lifetime warranty applies only to portable pneumatic tools manufactured by Dynabrade, Inc. in the USA. Lifetime warranty applies only to the original tool owner; warranty is non-transferable.

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.

Preventative Maintenance Schedule

For 2" Dia. Vacuum Disc Sander Models

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.

Parts Common to all Models:

Index #	Part Number	Description	Number Required	High Wear 100%	Medium Wear 70%	Low Wear 30%	Non-Wear 10%
1	51344	Pad	1			X	
2	52742	Shroud	1		X		
3	97326	Clamp	1				X
4	01560	Exhaust Cover	1				X
5	01580	Felt Seal	1	T			
6	97180	Vacuum Hose Cuff	1			X	
7	01546	7" Housing	1				X
8	01548	Gasket	1			X	
9	01558	Collar	1			X	
10	01461	Lock Nut	1			X	
11	95523	O-Ring	1			X	
12	01470	Insert	1			X	
13	50133	Lock Nut	1			X	
14	02649	Bearing	1	T			
15	54543	Shim	1		T		
16	54544	Shim	1		T		
17	54551	Shim	1		T		
18	01478	Bearing Plate	1			X	
19	01479	Spacer	1			X	
20	50767	Pin	2			X	
21	01392	Rotor	1				X
22	01480	Blade (4/pkg.)	1	T			
23	01476	Cylinder	1			X	
24	02676	Bearing Plate	1			X	
25	02696	Bearing	1	T			
26	02679	Shield	1		T		
27	See Note	Housing	1				X
28	01469	Speed Regulator Assy.	1		T		
29	01024	O-Ring	1				D
30	95730	O-Ring	1				D
31	01464	Seal	1		T		
32	01472	Tip Valve	1		T		
33	01468	Spring	1		T		
34	01564	Air Control Ring	1				L
35	95558	Retaining Ring	1		T		
36	01449	Valve Stem	1		T		
37	01462	Throttle Lever	1			X	
38	12132	Pin	1		T		
39	See Note	Vac. Hose	1			X	
40	95438	O-Ring	1			D	
41	95711	Retaining Ring	1	T			
42	95601	Vacuum Hose Cuff	1			X	
43	94532	Vacuum Adapter	1			X	
44	95375	O-Ring	1			L	
45	94526	Spacer	1			L	
46	94523	Inlet Adapter	1				X
47	94521	Muffler Base	1				X
48	94528	Silencer	1		T		
49	97161	Vacuum Hose Retainer	1			X	
50	94522	Muffler Cap	1				X
51	31907	Vacuum Hose Cuff	1			X	

LEGEND

T	Included in Tune-Up Kit
X	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.



96049 – Motor Tune-Up Kit

Note: Please see page 4 for specific part number.

Optional Accessories

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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 1/4" NPT.



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.

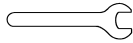
95842: 1pt. (473 ml)

95843: 1 gal. (3.8 L)



95675 Male Plug

- Provides up to twice the air flow compared to standard plug design.
- Plug has "ported" design to prevent "starving" of the air tool.



Open-End Wrench

96076 – 12mm



96049 Motor Tune-Up Kit

- Includes assorted parts to help maintain and repair motor.

01392 Drop-In Motor - 25,000RPM

- Allows quick and easy replacement. No motor adjustments needed.



Composite-Style Coupler

- Lightweight 1.4 oz. (.05 Kg), non-marring composite material.
- Easy connect/disconnect by single push-button action.
- Shock-proof, low-vibration, crush-resistant.

94960: 1/4" Female NPT

94980: 1/4" Male NPT



52296 Repair Collar

- Specially designed collar for use in vise to prevent damage to valve body of tool during disassembly/assembly.



Portable Vacuum Systems

- Dynabrade offers a wide assortment of vacuuming options to choose from. To help make your selection please request the most current portable vacuum systems literature from your local representative or by searching our web site.

Reference Contact Information

- | | | | |
|--|--|--|--|
| 1. American National Standards Institute – ANSI
25 West 43 rd 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
Pittsburgh, PA 15250-7954
Tel: 1 (202) 512-1803 | 3. Power Tool Institute, Inc.
P.O. Box 818
Yachata, Oregon 97498-0818
Tel: 1 (503) 547-3185
Fax: 1 (503) 547-3539 | 4. European Committee for Standardization
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