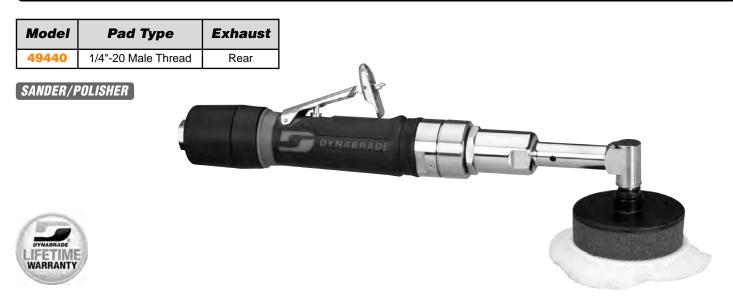
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3" Dia. Buffer Angle Head, 3,200 RPM

Parts Page Reorder No. PD12•18 Effective May, 2012

Safety, Operation and Maintenance – Save This Document and Educate All Personnel



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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 Requirements for the Use, Care and Protection of Abrasive Wheels - ANSI B7.1, Compressed Air and Gas Institute (CAGI) Safety Code for Portable Air Tools – B186.1, Code of Federal Regulation – CFR 29 Part 1910, International Organization for Standardization (ISO) Hand Held Non-Electric Power Tools – Safety Requirements and applicable State and Local Regulations.



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

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

Practice safety requirements. Work alert, have proper

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

of alcohol or drugs. Air line hazard, pressurized supply lines and flexible hoses can cause serious injury. Do not use damaged,

frayed or deteriorated air hoses and fittings.

attire, and do not operate tools under the influence

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 and OPERATING INSTRUCTIONS



Carefully Read and Understand the General and Sander/Polisher sections found in Tool Safety and Operating Guidelines (PN00001676) Before Handling or Using Tool.

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.

Tool Intent: 3" Dia. Buffers are ideal for buffing/polishing surfaces, using 3" Backup pads, 3" Hook Face buffs and buffing compounds.

DO NOT USE Tool for Anything Other Than Its Intended Applications.

Training: Proper care, maintenance, and storage of your air tool will maximize tools performance and reduce chance for accident. Employer's Responsibility: Provide operators with safety instructions and training for safe use of tools and accessories.

Report to Your Supervisor any Condition of the Tool, Accessories or Operation you Consider Unsafe.

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MAINTENANCE INSTRUCTIONS

Important: To keep tool safe, a Preventative Maintenance Program is recommended. The program should included inspection of the tool and all related accessories and consumables, including air lines, pressure regulators, filters, oilers, etc. refer to CAGI B186.1 for additional maintenance information. If accessory or tool breakage occurs, investigate failure to determine the cause and correct before issuing tool for work. Use the following schedule as a starting point in developing a Preventative Maintenance Program. If tool does not operate properly (RPM, Vibration, Start/Stop) after these scheduled checks or at any time, the tool must be repaired and corrected before returning tool to use.

INSTALLATION

- To ensure long life and dependable service, use a Closed Loop Air System and Filter-Regulator-Lubricator as diagramed below.
- Each tool should have its own dedicated hose connected to an air supply manifold. Quick disconnects should be installed at the manifold in an effort to reduce contamination into the 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: 1pt/473ml) is recommended.

MAINTENANCE SCHEDULE

Daily (every 8 hours):

- Inspect tool and accessories for damage or broken parts. Replace items as necessary to ensure proper operation and safety.
- Lubricate motor as recommended. Use Dynabrade Air Lube (P/N 95842: 1pt/473ml) 10W/NR. (1 Drop per minute of air lube per 20 SCFM.)
- Check air line pressure with a gage. (MAX. 90 PSIG or 6.2 Bar operating pressure at the air inlet of the tool.)
- Right angled gear and wick system through gear case grease fitting with 3 plunges of gear oil (P/N 95848) and grease gun (P/N 95541). (Prime grease gun prior to greasing.)
- Check tool for proper operation: If operating improperly or demonstrates unusual vibration, the tool must be serviced and problem corrected before further use.

Every 20 Hours or Once a Week Which Ever Comes First:

- Check free speed of tool without the abrasive accessory mounted. Measure RPM (speed) with tachometer and with air pressure set at 90 PSIG while the tool is running. If a governed tool is operating at a higher speed than the RPM marked on the tool housing, the tool must be serviced and corrected before use. A non-governed tool may exceed the RPM marked on the tool by 10% when operated at free speed with no accessories.
- If tool is running fast look for worn, damaged or missing governors, air control rings and silencers. Special care must be taken when servicing

governors and speed control devices. Injection molded governor assemblies are non-serviceable and must be replaced.

 If tool is running slow look for clogged inlet screen, air stream, silencer(s) or a malfunctioning governor (see concerns for servicing governors). Service as required.

Every 50 Hours:

 Lubricate planetary gears through gear case grease fitting with 3 plunges of grease (P/N 95542) and grease gun (P/N 95541). (Prime grease gun prior to greasing.)

REPAIR

- Use only genuine Dynabrade replacement parts to ensure quality. To order replacement parts, specify Model#, Serial# and RPM of your air tool.
- 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.
- DO NOT clean or maintain tools with chemicals that have a low flash point (example: WD-40[®]).
- Motor Tune-Up Kit are available (when applicable) which includes high wear and medium wear motor parts.
- Air tool markings must be kept legible at all times, if not, reorder housing and replace. User is responsible for maintaining specification information.
- After maintenance is performed on tool, add a few drops of Dynabrade Air Lube (P/N 95842) to the tool inlet and start the tool a few times to lubricate air motor. Verify RPM (per 20 hr maintenance schedule), vibration and operation.

HANDLING & STORAGE

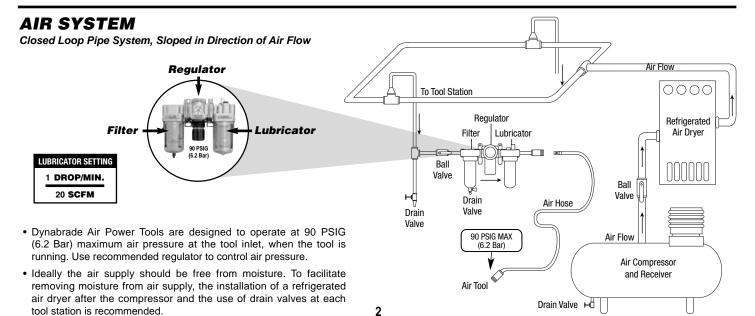
- Use of tool rests, hangers and/or balancers is recommended.
- Protect tool inlet from debris (see Notice).
- DO NOT carry tool by air hose or near the tool throttle lever.
- Store accessories in protective racks or compartments to prevent damage.
- Follow the handling instructions outlined in the operating instructions when carrying the tool and when changing accessories.
- Protect accessories from exposure to water, solvents, high humidity, freezing temperature and extreme temperature changes.

END OF USE/DISPOSAL

When tool has reached its end of useful service, disassemble tool into its primary components (i.e. steel, aluminum and plastic part) and recycle or discard per local, state and/or federal regulations as to not harm the environment.

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.

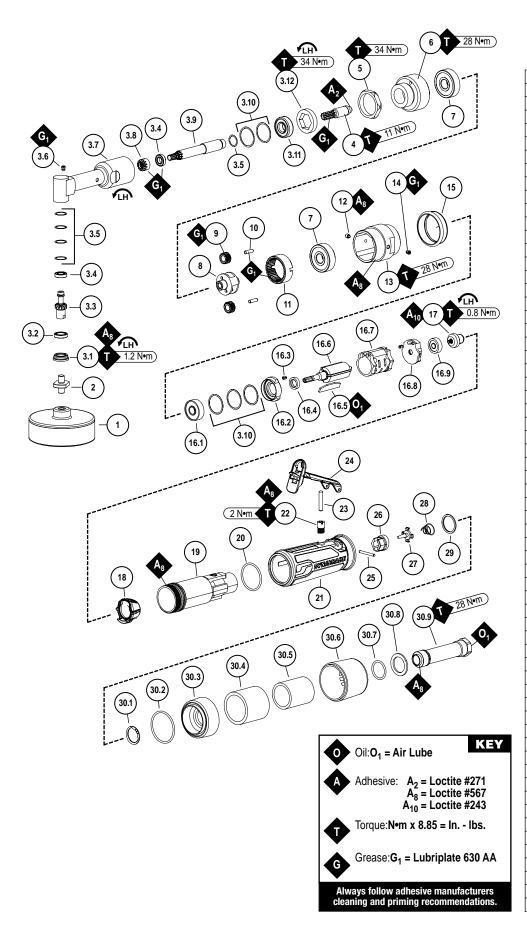


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Models 49440

3" Dia. Buffer Complete Assembly



ITEM	D/N	DESCRIPTION	QTY.			
ITEM 1	P/N 50120	3" DIA. HOOK-FACE PAD				
1	50120	3" DIA. HOOK-FACE PAD ADAPTER				
2	54021 54560	ADAPTER ANGLE HEAD ASSEMBLY				
3 3.1	54560 54550	BEARING CAP				
3.2	54537	BEARING	1			
3.3	54549	WORK SPINDLE	1			
3.4	54549	BEARING	2			
3.5	54536	SHIM PACK (4/PKG)	AR			
3.6	01041					
		LUBRICANT FITTING	1			
3.7 3.8	54547	ANGLE HOUSING BEVEL GEAR				
3.0 3.9	54546		1			
	54541	SPINDLE	1			
3.10	54529	SHIM PACK (3/PKG)	AR			
3.11	95398	BEARING	1			
3.12	54540	RETAINING NUT	1			
4	53450	DRIVE SPLINE	1			
5	54527	LOCK RING	1			
6	53451	ADAPTER	1			
7	54520	BEARING	2			
8	50786	PLANETARY CARRIER	1			
9	54519	GEAR ASSEMBLY (INC. BEARING)	2			
10	54472	SHAFT	2			
11	54468	RING GEAR	1			
12	50784	SET SCREW	1			
13	53152	GEAR CASE	1			
14	01041	LUBRICANT FITTING	1			
15	01547	INSULATOR COLLAR	1			
16	45298	SHORT BLOCK ASSEMBLY	1			
16.1	02649	BEARING	1			
16.2	01478	FRONT BEARING PLATE	1			
16.3	50767	PIN	2			
16.4	01479	SPACER	1			
16.5	01480	VANE (4/PKG)	1			
16.6	45292	ROTOR	1			
16.7	01476	CYLINDER	1			
16.8	02676	REAR BEARING PLATE	1			
16.9		BEARING	1			
16.9	02696 45269	GOVERNOR (BLUE)	1			
		, ,				
18	45320	GOVERNOR CHAMBER	1			
19	45305	HOUSING				
20	96077	O-RING	1			
21	09651	SLEEVE	1			
22	45315	BUSHING	1			
23	97045	PIN	1			
24	45263	THROTTLE LEVER	1			
25	97060	PIN	1			
26	45310	SEAL	1			
27	58365	TIP VALVE	1			
28	01468	SPRING	1			
29	01564	AIR CONTROL RING	1			
30	94520	MUFFLER ASSEMBLY	1			
30.1	95711	SNAP RING	1			
30.2	95438	O-RING	1			
30.3	94521	MUFFLER BASE	1			
30.4	94525	FELT SILENCER	1			
30.5	94524	SINTERED MUFFLER	1			
30.6	94522	MUFFLER CAP	1			
30.6		O-RING	1			
JU.1	95375	WASHER	1			
20.0	94526	WASHEK				
30.8	04500					
30.8 30.9	94523		1			
	94523 95262 95987	INLET ADAPTER WRENCH – 14 MM WRENCH – 5/16"	1 1 1			

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LIFETIME WARRANTY

To validate Dynabrade Lifetime Warranty, you must register each tool at: www.dynabrade.com. Registration of each tool at website is required. Dynabrade will not honor Lifetime Warranty on unregistered tools. Please view the entire Lifetime Warranty Policy at : www.dynabrade.com.



MACHINE SPECIFICATIONS

Model	Speed	Power	Sound	Air Consumption	Air Pressure	Weight	Length	Height
49440	3,200 RPM	.4 hp (298 W)	79 db(A)	26 SCFM (736 LPM)	90 PSIG (6.2 Bars)	1.8 lb. (.80 kg)	11.7" (296 mm)	2.6" (67 mm)

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

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

OPTIONAL ACCESSORIES





· Includes assorted parts to help maintain and repair motor.

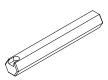
Part No. 96541



Dynaswivel®

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

Part No. 94300 - 1/4" NPT.



Hex Key Wrench

- 12 mm hex
- Use in housing core or air inlet.

Part No. 96399



Crowfoot Wrench

- 3/8" Drive
- 34 mm
- Use on throttle body, housing core and lock nuts.

Part No. 96460





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. Part No. 95842: 1 pt. (473 ml) Part No. 95843: 1 gal. (3.8 L)



Grease

- · 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 Part No. 95541: Push-Type Grease Gun Part No. 95542: 10 oz. (283.5 g) Tube.

Overhose Assembly

· Redirects exhaust away from operator.

Part No. 94995

· For use with extended exhaust models only.



Lock Ring Tools

- Part No. 96165
- · For removal/tightening of 54550 Bearing Cap.

Part No. 97782 For removal/tightening of 53451 Adapter.

REFERENCE CONTACT INFORMATION

American National Standards Institute (ANSI) 1899 L Street, NW, 11th Floor • Washington, DC 20036 • Tel: 1 (202) 293-8020 Compressed Air & Gas Institute (CAGI)

1300 Sumner Ave. • Cleveland, OH 44115-2851 Tel: 1 (216) 241-7333 • Fax. (216) 241-0105

European Committee for Standardization (EN) Rue de Stassart 36 • B - 1050 Brussels, Belgium

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