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AUTOMOTIVE

Parts Page Reorder No. APD01•06 Effective April, 2001 Supercedes APD97•02

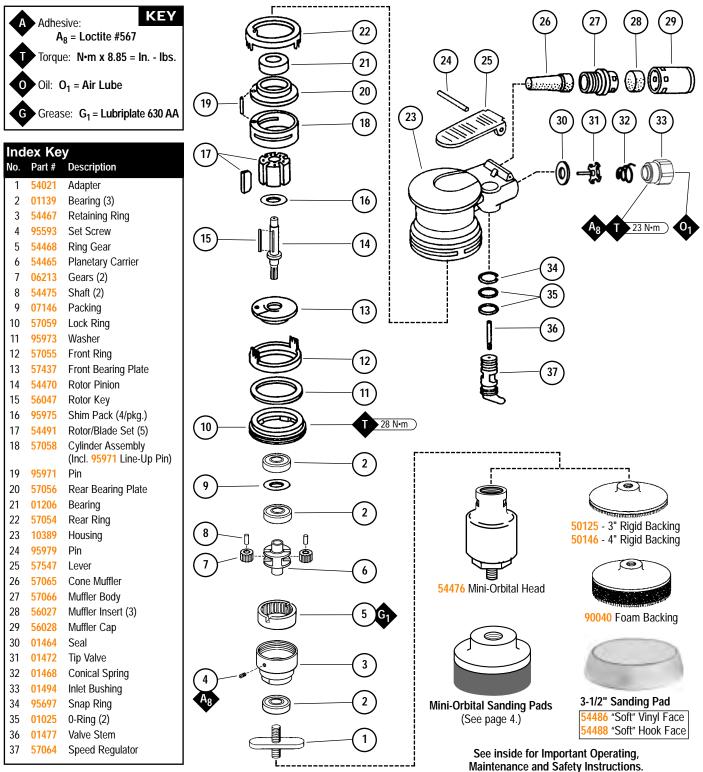
Models:

10390 - Buffer 10391 - Mini Orbital Sander 10393 - Versatility Kit 10398 - 4"-5" Buffer

Palm-Style Buffer/Sander

Air-Powered, 2,400 RPM

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.



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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 Rotor Vane air tools must be used with a Filter-Regulator-Lubricator to maintain all warranties.

Operating Instructions:

Warning: Eye, face, respiratory, sound, 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.
- All Dynabrade Rotary Vane air motors should be lubricated. Dynabrade recommends one drop of air lube per minute for each 10 SCFM (example: if the tool specifications 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: 11405 Air Line Filter-Regulator-Lubricator Provides accurate air pressure regulation, two-stage filtration of water contaminants and micro-mist lubrication of pneumatic components. Operates 40 SCFM @ 100 PSIG has 3/8" 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 96107) is available which includes assorted parts to help maintain motor in peek operating condition.
- 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.

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.

Model Number	Motor HP (W)	Motor RPM	Dia. Orbit Inch (mm)	Sound Level	Air Flow Rate CFM/SCFM (LPM)	Air Pressure PSIG (Bars)	Spindle Thread	Weight Pound (kg)	Length Inch (mm)	Height Inch (mm)
Orbital Sanders	.25 (186)	2,400	3/16" (5)	79 dB(A)	3/18 (510)	90 (6.2)	1/4"-20 male	1.9 (.9)	5-3/8 (137)	3-5/8 (92)
Buffers	.25 (186)	2,400	N/A	79 dB(A)	3/18 (510)	90 (6.2)	1/4"-20 male	1.9 (.9)	5-3/8 (137)	4-1/4 (108)

Additional Specifications: Air Inlet Thread 1/4" NPT · Hose I.D. Size 1/4" (8 mm)

Disassembly/Assembly Instructions - Palm-Style Buffer Sander

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

A Motor Repair Kit (96046) is available which contains special tools for disassembly/assembly. Please refer to parts breakdown for part identification.

Motor Disassembly:

- 1. Invert machine and secure in vise, using 57092 Collar (supplied in 96046 Repair Kit) or padded jaws.
- 2. Remove any accessories attached to 54021 Adapter.
- 3. Insert 56058 Lock Ring Wrench (supplied in 96046 Repair Kit) into corresponding tabs of lock ring and unscrew. Motor may now be lifted out for service.
- 4. Remove lock-ring, washer, front ring and rear ring from motor.
- Remove 54021 Adapter by removing 95593 Set Screw using 5/64" allen wrench (supplied in 96046 Repair Kit). Place allen wrench into set screw hole to stop rotation of 54465 Planetary Carrier. Use a 14 mm wrench to unscrew adapter (supplied in 96046 Repair Kit).
- 6. Remove 54467 Retaining Ring using two (2) 50679 26 mm wrenches (supplied in 96046 Repair Kit).
- 7. Remove 54465 Planetary Carrier by pressing out from 01139 Bearing. 06213 Gears can now be removed from planetary carrier.
- Remove 54468 Ring Gear by tapping retaining ring on a hard surface, once the ring gear slides towards the front, it will be necessary to use your fingers to remove it the rest of the way. Note: If hard to remove, heat may be applied to retaining ring and pliers used to remove gear the rest of the way.
 Proce 01120 Rearing from 54467 Retaining Ring
- 9. Press 01139 Bearing from 54467 Retaining Ring.
- Remove 57056 Rear Plate by holding onto 57058 Cylinder (bearing puller may be placed into exhaust slots on cylinder) and pressing 54470 Rotor Pinion out of 01206 Bearing.
- 11. Remove 54491 Rotor/Blade Set. Remove 56047 Rotor Key.
- 12. Disassemble 57437 Front Plate by pressing 54470 Rotor Pinion through front plate. Note: One 01139 Bearing will remain on rotor pinion. To remove, press pinion through remaining bearing.
- 13. Press 01206 Rear Bearing from 57056 Rear Bearing Plate.

Motor Disassembly Complete.

To Assemble:

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

- 1. Press 01139 Bearing onto rotor pinion until seated against shoulder.
- 2. Press bearing/rotor pinion assembly into 57437 Front Plate and check for smooth rotation.
- 3. Place 07146 Packing in front plate bore and press 01139 Bearing into bore onto packing.
- Invert rotor pinion in support. Install 56047 Rotor Key and 54491 Rotor/Blade Set onto rotor pinion. Important: Place the correct number of shims from the 95975 Shim Pack under rotor to achieve a 0.0015" space between rotor and front plate. Note: Blades should be lightly lubricated with Dynabrade Air Lube P/N 95842 (or equivalent) before installation into rotor slots.
- 5. Place 57058 Cylinder Assembly over rotor. The "short" line-up pin goes toward the front plate.
- 6. Place 57056 Rear Plate (with 01206 Bearing pressed into place) over shaft and "long" end of line-up pin. Press fit in place.
- 7. Press 01139 Bearing into 54467 Retaining Ring.
- 8. Place 54468 Ring Gear into 54467 Retaining Ring lining up one of the notches with set screw hole.
- Place 54465 Planetary Carrier with 06213 Gears and 54475 Shafts in place into 54467 Retaining Ring (1/4"-28 female thread, facing down). Note: Gears should be lightly greased with Dynabrade's 95542 Grease (or equivalent).
- **10.** Align **54465** Planetary Carrier with splined end of **54470** Rotor Shaft.
- 11. Screw retaining ring assembly onto front plate and tighten using (2) 26 mm wrenches.
- 12. Place 5/64" allen wrench into retaining ring set screw hole and tighten 54021 Adapter with 14 mm wrench.
- 13. Hand tighten 95593 Set Screw in place using 5/64" allen wrench. Note: Be sure notch on ring gear is lined up with set screw hole.
- 14. Place 57054 Rear Ring over the rear plate and line-up pin. Turn motor over and install 57055 Front Ring over front plate. Make sure the "legs and fingers" on the rings line-up. Also, the small cut-outs on both rings should line-up with the square holes in the cylinder/end plate assembly.
- 15. Secure motor housing in vice using 57092 Collar or padded jaws. Slide motor assembly into housing. Note: Be certain line-up pin enters the line-up hole at bottom of housing bore and the "legs" of the rings stay in-line.
- 16. Place 95973 washer and 57059 Lock Ring onto the Front Ring with 1 drop of pneumatic tool oil spread between the washer and lock ring. Tighten lock ring with 56058 Lock Ring Wrench torque to 28 N•m/250 in. lbs.
- 17. Attach desired accessory to adapter.

Tool 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 penetrate motor

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Optional Accessories







Foam Waffle



- Scrim back.
- Mount to 50120 or 50125 Hook Face Pads.



Finesse

Sanding

Creme

SE	21-486/
1	GLA2
P.	- 7

• A sanding compound for metal, fiberglass and composites. Use with fine-grade sanding discs. 95723: 4 oz. (118 ml). 95724: 1 qt. (946 ml).

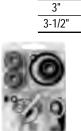
95725: 1 gal. (3.8 l)

Finesse Sanding Creme

- **Dynabrade Glaze**
- · For use with slow-speed tools to achieve a high gloss after compounding. 95727: 4 oz. (118 ml). 95728: 1 qt. (946 ml).

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O



Diameter

3"

3"

3"

96107 Motor Tune-Up Kit:

Part

90027

90028

90030

90038

90034

 Includes assorted parts to help maintain and repair motor.

Polishing/Buffing Pads (Hook Face Backing)

- 96046 Motor Repair Kit:
- Contains special tools for disassembly/assembly of machine.

Description

Terry Cloth

Synthetic Wool

Foam Flat Face

Foam Waffle

Natural Wool



3" Diameter Hook Face Pads

Accepts reattachable abrasive

discs as well as polishing buff pads.

Description/

Face

Medium/Rubber

Medium/Rubber

Soft

Very Soft

Very Soft

Soft/Vinyl

Soft/Vinyl

Hook 'n Loop

Hook 'n Loop

Medium/Vinyl

Medium/Vinyl

50120: Foam Backing

50125: Rigid Backing

• 5,000 RPM maximum. • 1/4"-20 female thread.

Pad

Dia.

3/4"

1-1/4"

1-1/4"

3/4"

1-1/4"

3/4"

1-1/4"

3/4"

1-1/4'

3/4"

1-1/4'

Part

No.

54017

54018

54031

54085

54086

54087

54088

54089

54090

54091

54092

Grease and Grease Gun

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

95541: Push-type grease gun.

Thread

Туре

1/4"-20 Female

1/4"-20 Female

Locking-Type

1/4"-20 Female

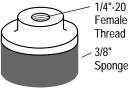
95542: 10oz. (283.5g) tube.



Dynabrade

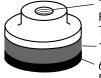
Glaze

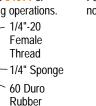
"Very Soft" Density



"Medium" Dual-Density

Order vinyl face pads 54091 or 54092 for wet sanding operations.

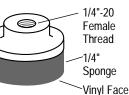






All pads are 5,000 RPM maximum.

"Soft" Density



Foam

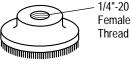
Rigid

Backing

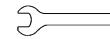
Backing

"Hook 'n Loop"

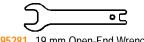
For use with abrasive impregnated non-woven nylon discs.







95262 14 mm Open-End Wrench.



95281 19 mm Open-End Wrench.



Comments

For PSA Discs

Non-Woven Nylon Discs

Non-Woven Nylon Discs

For PSA Discs

For PSA Discs

Visit our Web Site: www.dynabrade.com

Email: Customer.Service@Dynabrade.com

DYNABRADE, INC., 8989 Sheridan Drive • Clarence, NY 14031-1490 • Phone: (716) 631-0100 • Fax: 716-631-2073 • International Fax: 716-631-2524 DYNABRADE EUROPE S.àr.I., Zone Artisanale • L-5485 Wormeldange—Haut, Luxembourg • Telephone: 352 76 84 94 1 • Fax: 352 76 84 95 1 © DYNABRADE, INC., 2001 PRINTED IN USA

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- 50146: Rigid Backing
- 4" 5" Diameter Hook Face Pads 90040: Foam Backing