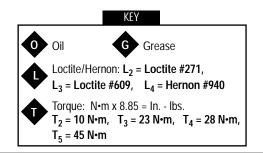
# Dynafine™ "Backsplash" Sander

Air Motor and Machine Parts.



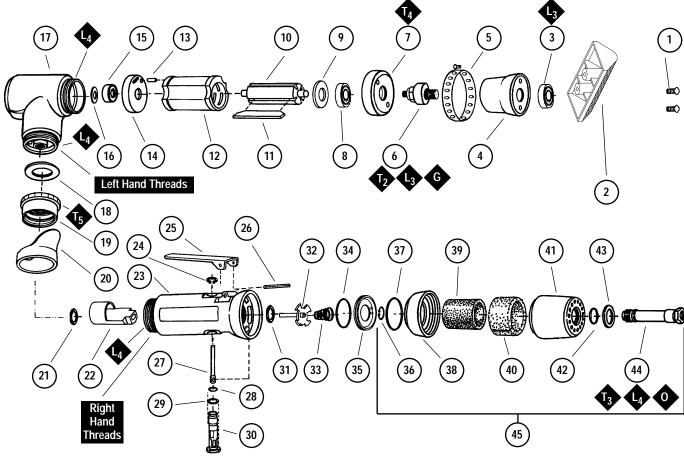
Models: 58000 — 20,000 RPM

58010 — Versatility Kit

WARNING

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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		Description	_		Description
1		Screw (2)	25		Throttle Lever
2		Pad Mount			Safety Lock Lever
3		Bearing	26	12132	
4		Boot Assy.	27	• • • • •	Valve Stem
5	95884	Hose Clamp Assy.	28	95730	O-Ring
6	57961	Cam Assy.	29	01024	O-Ring
7	57962	Exhaust Cover	30	01469	Regulator
8	56258	Bearing	31	01464	Seal
9	53161	Front Bearing Plate	32	01472	Tip Valve
10	50777	Rotor	33	01468	Spring
11	01480	Blades (4)	34	96065	O-Ring
12	01476	Cylinder	35	57970	Air Control Ring
13	50767	Pin	36	95711	Retaining Ring
14	02673	Rear Bearing Plate	37	95438	O-Ring
15	02696	Bearing	38	94521	Muffler Base
16	02679	Shield	39	94524	Sintered Muffler
17	01546	Housing	40	94525	Felt Muffler
18	01548	Gasket	41	94522	Muffler Cap
19	01461	Lock Nut	42	95735	O-Ring
20	01558	Collar	43	94526	Spacer
21	95523	O-Ring	44		Inlet Adapter
22	01470	Insert	45	94520	•
23	58014	Housing – <b>58000</b>			,
24	95558	Retaining Ring			



## 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 40 CFM @ 100 PSI 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 96236) 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.

Machine	Length	Weight	Height	Air Flow Rate	Sound	Motor	Motor	Air Pressure
Number	Inch (mm)	Pound (kg)	Inch (mm)	SCFM (LPM)	Level	HP (W)	RPM	PSI (Bars)
58000	9.0" (229)	1.60 lbs. (.72)	3-3/4" (95)	20 (566)	67 dBA	.16 (119)	20,000	90 (6.2)

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

# **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.

## **Motor Disassembly:**

- 1. Disconnect tool from power source.
- 2. Secure air tool in vise using 52296 Repair Collar.
- 3. Remove sanding pad assembly.
- 4. Loosening 95884 Hose clamp.
- 5. Remove bearing/boot assembly.
- 6. With an adjustable pin wrench, remove 57962 Exhaust Cover by turning counter-clockwise.
- 7. Pull motor assembly from housing.
- 8. Remove 02679 Shield, press rotor from 02673 Rear Bearing, press 02696 Bearing from rear bearing plate.
- 9. Remove cylinder, and blades (4) from rotor.
- 10. Loosen 57961 Cam Assembly from rotor, and remove front bearing plate.

Motor disassembly is complete.

## **Housing Disassembly:**

- 1. Reposition motor housing in vise so inlet bushing is facing upwards.
- 2. Remove 94523 Inlet Bushing and muffler assembly from valve body housing. Using needle nose pliers, remove 01468 Spring, tip valve and seal.
- 3. Remove 95711 Retaining Ring from inlet adapter and disassemble muffler assembly.
- 4. Using a 2.5mm diameter drift pin and a hammer, tap 12132 Pin out from housing and remove throttle lever.
- 5. Remove 95558 Retaining Ring and push 01469 Speed Regulator from housing.

Tool disassembly is complete.

### **Motor Reassembly:**

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

- 1. Place 50777 Rotor in padded vise with threaded spindle facing upwards.
- 2. Install bearing/bearing plate assembly onto rotor.
- 3. Tighten 57961 Cam Assembly onto rotor (torque to 17 N•m/150 in. lbs.).
- 4. Install well lubricated 01480 Blades (4) into rotor slots. Dynabrade Air Lube P/N 95842 is recommended for lubrication.
- 5. Install cylinder over rotor. Be sure air inlet holes of cylinder face away from bearing plate and that the pin in the front bearing plate aligns correctly with the pin-hole in the cylinder.
- 6. Install 02696 Rear Bearing into 02673 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. Install 02679 Shield.
  - **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.
- 7. Secure housing in vise using **52296** Repair Collar.
- 8. Install motor assembly into housing. Be sure motor drops all the way into housing.
- 9. Install 57962 Exhaust Cover onto motor housing (torque 28 N·m/250 in. lbs.).
- 10. Install boot assembly onto tool. Tighten 95884 Hose clamp.

Motor assembly is complete.

### **Housing Reassembly:**

- 1. Insert 01469 Speed Regulator Assembly with 01449 Valve Stem with o-rings installed into housing. Secure with 95558 Retaining Ring.
- 2. Secure valve body in vise using **52296** Repair Collar with air inlet facing upwards.
- 3. Insert 01464 Seal into housing.
- 4. Line-up the hole in the **01449** Valve Stem with the hole in the housing (looking past brass bushing). Insert **01472** Tip Valve so that the metal pin passes through the hole in the valve stem. Install **01468** Spring (small end first).
- 5. Reassemble muffler assembly. Slip 94523 Inlet Adapter through muffler assembly and secure with 95711 Retaining Ring.
- 6. Install O-Ring onto 57970 Air Control Ring, install into housing, making sure to line up holes in air control ring with exhaust air passage.
- 7. Apply Hernon #940 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.).
- 8. Install throttle lever and 12132 Pin. Remove from vise.

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 thirty 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® Air-Line Connector

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 Dynaswivel 1/4" NPT.

• 94407 Flow Control Swivel 1/4" NPT.







#### 96236 Motor Tune-Up Kit

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

#### **Abrasives**

Silicon Carbide Sheets (C Weight) 3-1/2" Wide x 2-3/4" Long / PSA with liner (89 mm Wide x 70 mm Long)

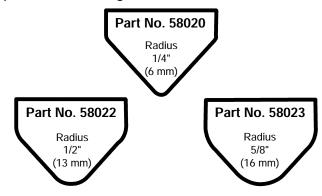
Abrasive Grit						
120	150	180				
93130	93131	93132				

# Standard Sanding Pads (Included with tool).





# Optional Sanding Pads (Please order separately).





Visit our new Web Site On-Line: http://www.dynabrade.com