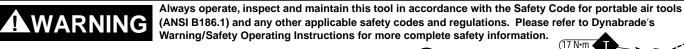
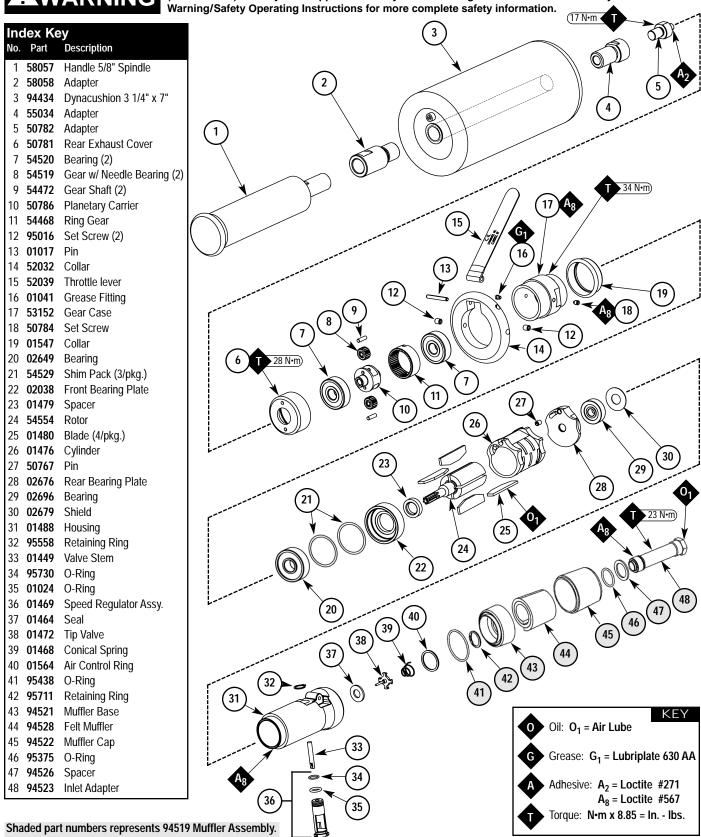
Rolling Pin Sander 3,200 RPM

Models:

58050 - 3,200 RPM

Air Motor and Machine Parts





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, 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 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 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 up to 40 SCFM @ 100 PSI, has 3/8" NPT female ports.
- 5. Lubricate planetary gears through the gear casing grease fitting with 2-3 plunges for every 50 hours of use to achieve maximum gear life (order 95542 Grease and 95541 Gun).
- 6. Use only genuine Dynabrade replacement parts. To reorder replacement parts, specify the Model #, Serial # and RPM of your machine.
- 7. A Motor Tune-Up Kit (P/N 96173) is available which includes assorted parts to help maintain motor in peek operating condition. Please refer to Dynabrade's Preventative Maintenance Schedule for a guide to expectant life of component parts.
- 8. 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.
- Warning: Hand, wrist and arm injury may result from repetitive work, motion and overexposure to vibration.

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	Length	Height	Weight	Spindle	Air Flow Rate	Sound	Motor	Motor
Number	Inch (mm)	Inch (mm)	Pound (kg)	Thread	SCFM (LPM)	Level	HP (W)	RPM
All Models	21.36" (542.5)	3.25" (82.55)	4.7 lbs. (20.9)	3/8" -24 male	23 (651)	82 dBA	.4 (298)	3,200 RPM

Disassembly/Assembly Instructions - .4 Hp/Straight-Line/Rear Exhaust

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. With an adjustable pin wrench, remove 50781 Rear Exhaust Cover by turning counter-clockwise.
- 4. Remove 50784 Set Screw and pull 50782 Adapter and planetary carrier assembly from 53152 Gear Case.
- 5. Press planetary carrier assembly from rear 54520 Bearing. Remove ring gear and gears from 50786 Planetary Carrier.
- 6. Secure planetary carrier in vise and remove 50782 Adapter. Press carrier from front 54520 Bearing.
- 7. Grab onto pinion and pull motor assembly from motor housing.
- 8. Press 54554 Rotor from 02696 Rear Bearing. Press 02696 Rear Bearing from 02676 Rear Bearing Plate, remove 02679 Shield.
- 9. Remove cylinder and rotor blades from rotor.
- 10. Press rotor through 02649 Front Bearing and 02038 Front Bearing Plate.

Motor disassembly complete.

Valve Body Disassembly:

- 1. Position valve body in vise using 52296 Repair Collar with air inlet facing up.
- Remove air fitting by securing 94523 Inlet Adapter with a wrench and twist air fitting from inlet adapter.Important: 94523 Inlet Adapter must be secured before attempting to remove air fitting to avoid damaging valve body housing.
- 3. Remove 94523 Inlet Adapter.
- 4. Remove 95711 Retaining Ring from inlet adapter and separate 94521 Muffler Base from 94522 Muffler Cap. Remove felt muffler.
- 5. Remove 01564 Air Control Ring from valve body. Using needle nose pliers, remove 01468 Spring, 01472 Tip Valve and 01464 Seal.
- 6. Remove 95558 Retaining Ring. Push 01469 Regulator from valve body and remove O-rings.

Disassembly complete.

Motor Reassembly:

Important: Be sure parts are clean and in good repair before reassembly. Follow all grease, oil, and torque specifications.

- 1. To correct for bearing tolerances, it is necessary to use **54529** Shim Pack (as reg.) to maintain correct clearance between ends of rotor and bearing plates.
- 2. Insert .002 Shim in 02038 Front Bearing Plate.
- 3. Insert 02649 Bearing into 02038 Bearing Plate.
- 4. Assemble 01479 Spacer onto pinion end of 54554 Rotor, making sure that the countersink faces the rotor.
- Assemble 02038 Front Bearing Plate onto rotor by pressing on the inner race of 02649 Bearing and by supporting rotor on opposite end. Be sure that the bearing is pressed tight against 01479 Spacer.
- 6. Hold rotor in left hand and the bearing plate in right hand. Apply an outward (pulling) pressure and observe spacing between end of rotor and bearing plate. This should be from flush (not rubbing) to .002 maximum. If the rotor rubs the bearing plate, reduce the spacing between the bearing and the bearing plate by removing the .002 shim entirely, or by substituting a .001 shim for the .002 shim. However, if there is more than .002 spacing between the end of the rotor and bearing plate, add .001 shim between the bearing plate.
- 7. Assemble 01476 Cylinder so that inlet part will align with inlet holes in 02676 Rear Bearing Plate. The cylinder exhaust slots must align with the slots in the bearing plate.
- 8. Insert 01480 Blades (lubricate blades with Dynabrade Air Lube P/N 95842 or equivalent prior to installation).
- 9. Support assembly squarely on the pinion end of rotor. Press 02696 Bearing into 02676 Rear Bearing Plate and press these onto rotor, pressing on the inner race of 02696 Bearing, just enough to bring the bearing plate against the cylinder. There should be slight drag between the bearing plates and cylinder when these are moved with the fingers. Position cylinder until motor turns "finger free." Be sure that pin and air inlet hole in cylinder line up with air inlet hole and pin hole in bearing plate.
- 10. Place 02679 Shield over 02696 Bearing.
- 11. Install motor assembly into motor housing.
- **12.** Press front **54520** Bearing onto front end of **50780** Planetary Carrier.
- 13. Apply one drop of #271 Loctite* to threads of 50782 Adapter. Install adapter onto planetary carrier (torque 17.0 N•m/150 in. lbs.).
- 14. Install planetary gears and 54472 Gear Shafts onto planetary carrier.
- 15. Slip 54468 Ring Gear over gears and press rear 54520 Bearing onto planetary carrier.
- 16. Slip complete planetary carrier onto pinion in motor housing, so that notches in ring gear line-up with grease fitting and set screw. Install 50784 Set Screw into gear case.
- 17. Install 53152 Gear Case onto housing to secure motor (torque 34 N•m/300 in. lbs.).
- 18. Install 50781 Exhaust Cover onto 53152 Gear Case (torque 28 N·m/250 in. lbs.).

Motor Reassembly Complete.

Valve Body Reassembly:

- 1. Insert 01469 Regulator with O-rings and valve stem in place into valve body. Secure with 95558 Retaining Ring.
- 2. Secure valve body in vise using 52296 Repair Collar with air inlet facing upward. Insert 01464 Seal.

(continued on next page)

Disassembly/Assembly Instructions (continued)

- 3. Line up hole in valve stem with hole in 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 toward tip valve).
- 4. Assemble felt muffler into 94522 Muffler Cap. Install 94521 Muffler Base onto muffler cap.
- 5. Install 95438 O-Ring into groove on muffler base. Place 95375 O-Ring and 94526 Spacer into recessed area of muffler cap.
- 6. Slip 94523 Inlet Adapter through muffler assembly and install 95711 Retainer Ring into groove on inlet adapter.
- Install 01564 Air Control Ring into valve body housing.
- 8. Apply Loctite* #567 PST Pipe Sealant to threads of 94523 Inlet Adapter and install entire muffler assembly onto valve body (torque 23.0 N•m/200 in. lbs.).
- 9. Replace air fitting. Secure inlet adapter with a wrench before tightening air fitting.
- 10. Install 52032 Collar with throttle lever onto 50781 Exhaust Cover.

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 30 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.

Accessories



96173 Motor Tune-Up Kit

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



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

95541: Push-Type Grease Gun (one-handed operation). **95542:** 10 oz. (283.5 g) tube.



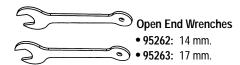
Dynaswivel*

- 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.



52296 Repair Collar

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





Visit our Web Site: www.Dynabrade.com Email: Customer.Service@Dynabrade.com