## For Serial Number 711437 and Higher

Models:

52060 — 950 RPM

52061 — Basic Versatility Kit 52062 — Deluxe Versatility Kit Key

O Oil G Grease N/UP New/Updated Part or Assy.

Loctite/Hernon:  $L_2$  = Loctite #271  $L_3$  = Loctite #609,  $L_4$  = Hernon #940

Torque: N•m x 8.85 = In. - lbs.  $T_2$  = 17 N•m,  $T_3$  = 23 N•m,  $T_4$  = 28 N•m

Parts Page Reorder No. PD98•10 Effective January, 1998 Supersedes PD97•04

# Dyninger

Air Motor and Machine Parts

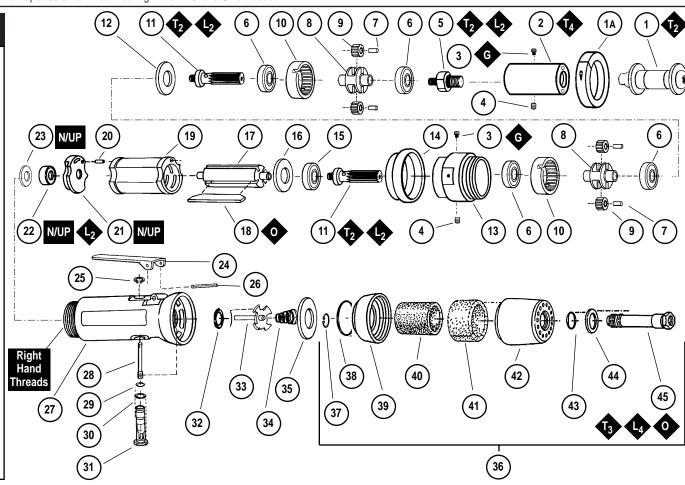


Always operate, inspect and maintain this tool in accordance with the Safety Code for portable air tools (ANSI B186.1) and any other applicable safety codes and regulations. Please refer to Dynabrade's Warning/Safety Operating Instructions for more complete safety information. See inside for Important Operating, Maintenance and Safety Instructions.

# New/Updated Parts - Effective Serial Number 7I1437 and Higher.

02696 Bearing Replaces 02650 Bearing. • 02676 Rear Bearing Plate Replaces 01487 Rear Bearing Plate. • 02679 Shield added.

Index Key         No.         Part # Description           1         13061 Arbor Assy.         23 02679 Shield           1A 13059 Collar         24 01448 Throttle Lever           2 53153 Planetary Housing         25 95558 Retaining Ring           3 01041 Grease Fitting         26 12132 Pin           4 50784 Lock Screw         27 02133 Housing - 52060           5 50782 Adapter         28 01449 Valve Stem           6 54520 Bearing         29 95730 O-Ring           7 54475 Gear Shaft         30 01024 O-Ring           8 50780 Planetary Carrier         31 01469 Speed Regulato           9 06213 950 RPM Gear         32 01464 Seal           10 54468 Ring Gear         33 01472 Tip Valve           11 53150 950 RPM Pinion         34 01468 Spring           12 50778 Spacer         35 01564 Air Control Ring           13 53152 Gear Case         36 94520 Muffler Assy.           14 01547 Rubber Collar         37 95711 Retaining Ring           15 01007 Bearing         38 95438 O-Ring           16 53161 Front Bearing Plate         39 94521 Muffler Base           17 50777 Rotor         40 94524 Sintered Muffler           18 01480 Motor Blades (4)         41 94525 Felt Muffler           20 50767 Pin         43 95375 O-Ring	0_0		Ting Replaces #2000 L			<b>2010</b> Roar Boaring 11
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17       50777       Rotor       40       94524       Sintered Muffler         18       01480       Motor Blades (4)       41       94525       Felt Muffler         19       01476       Cylinder       42       94522       Muffler Cap	15	01007	Bearing	38	95438	O-Ring
18 <b>01480</b> Motor Blades (4) 41 <b>94525</b> Felt Muffler 19 <b>01476</b> Cylinder 42 <b>94522</b> Muffler Cap	16	53161	Front Bearing Plate	39	94521	Muffler Base
19 <b>01476</b> Cylinder 42 <b>94522</b> Muffler Cap	17	50777	Rotor	40	94524	Sintered Muffler
' ' ' ' ' ' '	18	01480	Motor Blades (4)	41	94525	Felt Muffler
20 <b>50767</b> Pin 43 <b>95375</b> O-Ring	19	01476	Cylinder	42	94522	Muffler Cap
1	20	50767	Pin	43	95375	O-Ring
21 02676 Rear Bearing Plate 44 94526 Spacer	21	02676	Rear Bearing Plate	44	94526	Spacer
22 <b>02696</b> Bearing 45 <b>94523</b> Inlet Adapter	22	02696	Bearing	45	94523	Inlet Adapter



# 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.
- 3. 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: 11289 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 @ 90 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 96173) is available which includes assorted parts to help maintain motor in peek operating condition. Please refer to Dynabrade's Preventative Maintenance Schedule (PD98•01) for a guide to expectant life of component parts.
- 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.
- 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.

Machine	Length	Weight	Arbor Diameter Inch (mm)	Air Flow Rate	Sound	Motor	Motor	Air Pressure	SFPM(SMPM)
Number	Inch (mm)	Pound (kg)		SCFM (LPM)	Level	HP (W)	RPM	PSI (Bars)	@4" (102 mm)
All Models	9-1/2" (216)	3.7 lbs. (1.67)	1" (25)	27 (765)	82 dBA	.3 (224)	200-950	90 (6.2)	1,885 (573)

Additional specifications: Machine Height 2-3/4" (70 mm) • Air Inlet Thread 1/4" (6 mm) NPT • Hose Size 3/8" (9 mm)

# Disassembly/Assembly Instructions - .3 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.

# New/Updated Parts - Effective Serial Number 7I1437

02696 Bearing Replaces 02650 Bearing.

02676 Rear Bearing Plate Replaces 01487 Rear Bearing Plate.

02679 Shield added.

# Motor Disassembly:

- 1. Disconnect tool from power source. Remove arbor assembly.
- 2. Secure air tool in vise using 52296 Repair Collar.
- 3. With an adjustable pin wrench, remove 53153 Planetary Housing by turning counter-clockwise.
- 4. Pull 50782 Adapter and first planetary carrier assembly from 53153 Planetary Housing.
- 5. Press planetary carrier assembly from rear 54520 Bearing. Remove ring gear and gears from 50780 Planetary Carrier.
- 6. Secure planetary carrier in vise and remove 50782 Adapter. Press carrier from front 54520 Bearing. Remove 50778 Spacer.
- 7. Remove second planetary gear assembly from 53152 Gear Case.
- 8. Press planetary carrier assembly from rear 54520 Bearing. Remove ring gear and gears from 50780 Planetary Carrier.
- 9. Press carrier from front 54520 Bearing.
- 10. Grab onto pinion and pull motor assembly from motor housing.
- 11. Press 50777 Rotor from 02676 Rear Bearing Plate. Press 02696 Rear Bearing from rear bearing plate, remove 02679 Shield.
- 12. Remove cylinder and rotor blades from rotor.
- 13. Secure rotor in vise and remove pinion from rotor by inserting a 3mm drift pin through hole in pinion and twist off (right hand threads).
- 14. Press pinion and rotor through 01007 Front Bearing and 53161 Front Bearing Plate.

Motor disassembly complete.

## **Valve Body Disassembly:**

- 1. Position valve body in vise using **52296** Repair Collar with air inlet facing up.
- 2. 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 sintered muffler and felt muffler.
- 5. Remove 01564 Air Control Ring from valve body. Using needle nose pliers, remove 01468 Spring, tip valve and seal.
- 6. Using a 2.5mm drift pin, tap 12132 Pin from housing and remove throttle lever.
- 7. 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. Place 53161 Front Bearing Plate onto front end of 50777 Rotor (threaded end). Press 01007 Front Bearing onto rotor and front bearing plate.
- Secure rotor in padded vise with threaded spindle facing up. Apply one drop of #271 Loctite® (or equivalent) to threads of rotor. Using a 3mm drift pin, tighten pinion onto rotor (torque 17.0 N•m/150 in. lbs.).
- 3. Apply one drop of #609 Loctite® (or equivalent) to outer race of 02696 Rear Bearing and slip bearing into bearing plate. Install 02679 Shield.
- 4. Install well lubricated blades into rotor slots. Dynabrade recommends using their 95842 Dynabrade Air Lube.
- 5. Install cylinder over rotor with air inlet hole in cylinder wall facing away from front bearing plate.
- 6. Press 02676 Rear Bearing plate on to rotor. Be sure that pin and air inlet hole in cylinder line up with air inlet hole and pin hole in bearing plate.
- 7. Install motor assembly into motor housing.
- 8. Press Front **54520** Bearing onto front end of first **50780** Planetary Carrier.
- 9. Install gears and 54475 Gear Shafts onto planetary carrier.
- 10. Slip 54468 Ring Gear over gears and press rear 54520 Bearing onto planetary carrier.
- 11. Press front 54520 Bearing onto front end of second 50780 Planetary Carrier.
- 12. Install 06213 Gears and 54475 Gear Shafts onto planetary carrier.
- 13. Slip 54468 Ring Gear over gears and press rear 54520 Bearing onto planetary carrier
- 14. Apply one drop of #271 Loctite® to threads of 50782 Adapter. Install adapter onto planetary carrier (torque 17.0 N•m/150 in. lbs.).
- 15. Place 50778 Spacer onto pinion. Slip complete planetary carriers onto pinion in motor housing.
- 16. Install 53153 Planetary Housing onto housing to secure motor (torque 28 Nom/250 in. lbs.). Install arbor assembly onto adapter.

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 upwards. 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 towards tip valve).
- 4. Assemble sintered muffler and felt muffler together and place in 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.
- 7. Install 01564 Air Control Ring into valve body housing.
- 8. Apply Hernon #940 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 throttle lever and 12132 Pin.

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.

# **Eyelet Stars**

8" O. D. x 1"l.	8" O. D. x 1"I. D. Diameter Arbors					
Grit	Part Number					
80	93243					
120	93245					
150	93246					
180	93247					
220	93248					
320	93251					
400	93252					

Unit = 18 Stars each

#### 8" Diameter Coated Aluminum Oxide Sanding Stars

Mount to 1/2" arbor using **93236** Adapter; 5/8" arbor using **93237** Adapter. One or more **13067** Spacers (optional) may be required for less than a full loading of six stars.

- 1/2" and 5/8" diameter arbors also adaptable.
- 1,500 Rpm Maximum.

# **Optional Accessories**



#### **Dynaswivel®**

- Swivels 360° AT TWO PIVOT POINTS allowing the air hose to drop directly to the floor while providing superb tool handling.
- New **94300** 1/4" NPT, non-marring composite construction.

95461 - 3/8" NPT

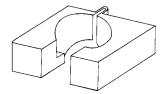
95462 - 1/2" NPT

95490 - 3/4" NPT



#### 96173 Motor Tune-Up Kit

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



#### 52296 Repair Collar

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



Open-End Wrenches

95262 – 14 mm open-end

95281 - 19 mm open-end



#### 93236 1/2" Diameter Star Insert:

Adapts abrasive stars to most 1/2" diameter arbor tools.

## 93237 5/8" Diameter Star Insert:

Adapts stars to most 5/8" diameter arbor tools.



#### 13067 Spacer:

Use on arbor for less than full loading of six stars. One or more spacers may be required.

**Arbor Spacer** 



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