PD01.92R
July, 2016
Supersedes PD01.92

1 hp Type 1 Wheel Grinders

6" Extension, Governor Controlled

Air Tool Manual – Safety, Operation and Maintenance

Models:

52376 – 12,000 RPM
3" Dia. x 3/8" x 1/2" Wide
Reinforced Grinding Wheel

52377 – 15,000 RPM
3" Dia. x 3/8" x 1/2" Wide
Reinforced Grinding Wheel

52378 – 18,000 RPM
3" Dia. x 3/8" x 1/2" Wide
Reinforced Grinding Wheel

52379 – 12,000 RPM
4" Dia. x 3/8" x 1/4" Wide
Reinforced Grinding Wheel

52380 – 15,000 RPM
4" Dia. x 3/8" x 1/4" Wide
Reinforced Grinding Wheel

SAVE THIS DOCUMENT, EDUCATE ALL PERSONNEL

⚠ WARNING

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 Safety Institute (ANSI) Safety Code for Portable Air Tools – B186.1. For additional safety information, refer to Safety Requirements for the Use, Care and Protection of Abrasive Wheels – ANSI B7.1, Code of Federal Regulation – CFR 29 Part 1910, European Committee for Standards (EN) Hand Held Non-Electric Power Tools – Safety Requirements and applicable State and Local Regulations.

SAFETY LEGEND

⚠ WARNING

Read and understand tool manual to reduce risk of injury to operator, visitors, and tool.

⚠ WARNING

Practice safety requirements. Work alert, have proper attire, and do not operate tools under the influence of alcohol or drugs.

⚠ WARNING

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

⚠ WARNING

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

⚠ WARNING

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

⚠ WARNING

Air line hazard, pressurized supply lines and flexible hoses can cause serious injury. Do not use damaged, frayed or deteriorated air hoses and fittings.

SAFETY INSTRUCTIONS

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 without expressed written consent from Dynabrade, Inc.

Tool Intent: Abrasive Extension Type 1 Wheel Grinders are ideal for cleaning metal before welding, grind and smooth weld seams, remove imperfections, smooth surfaces prior to painting or plating. Ideal for foundries, welding shops, fabrication plants, steel mills and shipyards.

Do Not Use Tool For Anything Other Than Its Intended Applications.

Training: Proper care, maintenance, and storage of your tool and abrasive wheels will maximize performance.

- Employer's Responsibility – Provide operators with safety instructions and training for safe use of tools and accessories.

Accessory Selection:

- Only use **reinforced** type 1 wheels.
- Abrasive/accessory RPM (speed) rating MUST be approved for AT LEAST the tool RPM rating.
- Before mounting an abrasive wheel or accessory, visually inspect for defects. Do not use defective wheels or accessories.
- Mount only recommended accessories. See back page of manual and Dynabrade catalog.
- Follow tool specifications before choosing size and type of accessory.
- Only use recommended fittings and air line sizes. Air supply hoses and air hose assemblies must have a minimum working pressure rating of 150 PSIG (10 bars, g) or 150 percent of the maximum pressure produced in the system, whichever is higher. (See tool Machine Specifications table.)

OPERATING INSTRUCTIONS

Warning: Always wear eye protection. Operator of tool is responsible for following: accepted eye, face, respiratory, hearing and body protection.
Always use wheel guard. Make sure it is positioned to best protect the operator and make sure it is securely fastened. Wheel guards that have been subject to a wheel breaking must be replaced.

(Continued on next page)

OPERATING INSTRUCTIONS (continued)

Caution: Hand, wrist and arm injury may result from repetitive work, motion and overexposure to vibration.

- Keep hand and clothing away from working end of the air tool.

Operation: Be sure that any loose clothing, hair and all jewelry is properly restrained.

- Secure inlet bushing on air tool with a wrench before attempting to install the air fitting to avoid damaging housing assembly.
- Check tool RPM (speed) with tachometer with air pressure set at 90 PSIG while the tool is running. If tool is operating at a higher speed than the RPM marked on the tool housing, or operating improperly, the tool must be serviced and corrected before use.

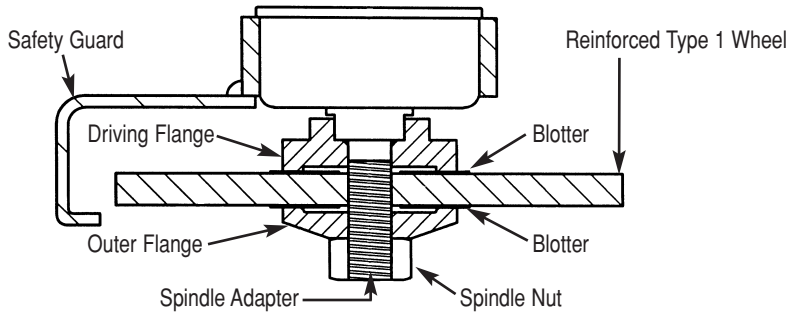
Caution: Tool RPM must never exceed abrasive/accessory RPM rating. Check accessory manufacturer for details on maximum operating speed or special mounting instructions.

- With power source disconnected from air tool, mount type 1 wheel onto spindle. See diagram below for typical mounting assembly.
- Follow recommended procedure from the manufacturer.

TYPE 1 WHEEL MOUNTING

Typical Mounting for Type 1 Wheels

- Blotters must cover at least the flange bearing surface as shown.
- A blotter (compressible washer) shall always be used between each flange and the abrasive wheel surface to ensure uniform distribution of flange pressure.
- Blotters shall cover the entire flange contact area.
- New blotters shall be used each time a wheel is mounted unless blotters are affixed to the wheel by the grinding wheel manufacturer.



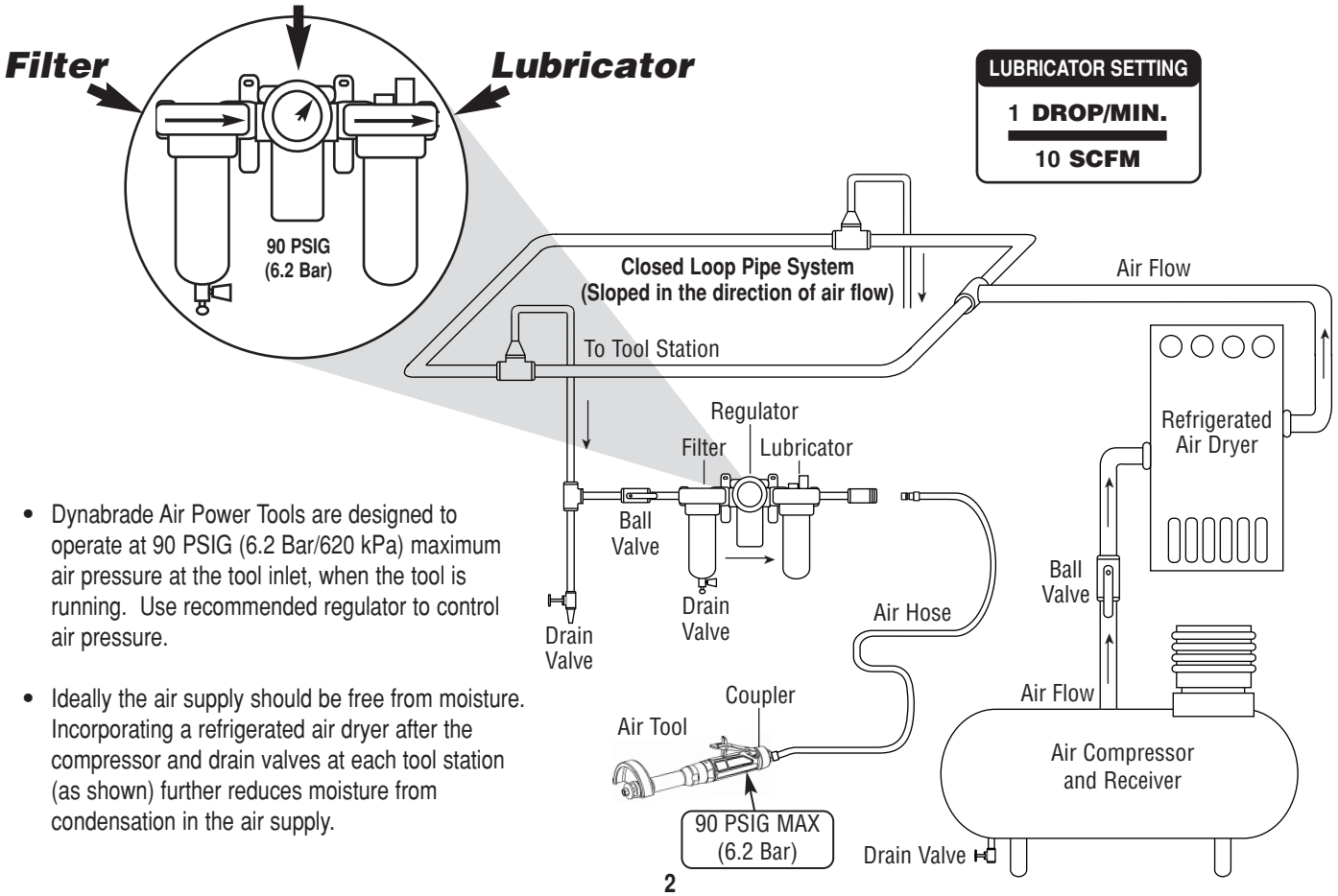
- Connect air tool to power source. Be careful NOT to depress throttle lever in the process. **Do not expose air tool to inlet pressure above 90 PSIG or (6.2 Bars).**

Caution: After installing the accessory, before starting the grinder with an abrasive wheel, it should be tested in an enclosed protective area. The operator must check to make sure that no one is in the unguarded plane of the wheel rotation. Increase the speed of the tool gradually. The wheel must be run at free speed for at least one minute before applying the wheel to work. During this time, check the tool for excessive vibration and noise. The cause of unusual vibration and noise must be determined and corrected before use. DO NOT USE if tool vibration is excessive. Correct cause, and retest to insure safe operation.

- Make sure that work area is uncluttered, and visitors are at a safe range from the tools and debris.
- Use a vise or clamping device to hold work piece firmly in place.
- Do not apply excessive force on tool or apply “rough” treatment to it.
- Always work with a firm footing, posture and proper lighting.

Report to your supervisor any condition of the tool, accessories, or operation you consider unsafe.

Air System



- Dynabrade Air Power Tools are designed to operate at 90 PSIG (6.2 Bar/620 kPa) maximum air pressure at the tool inlet, when the tool is running. Use recommended regulator to control air pressure.
- Ideally the air supply should be free from moisture. Incorporating a refrigerated air dryer after the compressor and drain valves at each tool station (as shown) further reduces moisture from condensation in the air supply.

Maintenance Instructions

Important: A Preventative Maintenance Program is recommended whenever portable power tools are used.

- Use only genuine Dynabrade replacement parts to insure quality. To order replacement parts, specify **Model#**, **Serial#** and **RPM** of your air tool.
- All Dynabrade Rotary Vane air tools must be used with a Filter-Regulator-Lubricator to maintain all warranties. Dynabrade recommends the following: **11411** Air Filter-Regulator-Lubricator (FRL) – Provides accurate air pressure regulation and two stage filtration of water contaminants. Operates 55 SCFM/1,558 LPM @ 90 PSIG with 1/2" NPT female ports.
- Dynabrade recommends one drop of air lube per minute for each 10 SCFM (example: if the tool specification states 40 SCFM, set the drip rate on the filter-lubricator to 4 drops per minute). Dynabrade Air Lube (P/N **95842**: 1 pt 473 ml) is recommended.

Routine Preventative Maintenance: Check free speed of grinder using a tachometer. This governor controlled grinder should be speed checked every 20 hours of use or weekly, whichever occurs more frequently.

- DO NOT disassemble the governor for any reason. Reorder correct speed – governor assembly (See Assembly Breakdown) and recheck free speed of tool with a tachometer.
- 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®).
- A Motor Tune-Up Kit (P/N **96532**) is available which includes high wear and medium wear motor parts.
- Air tool labels must be kept legible at all times, if not, reorder label(s) and replace. (See Assembly Breakdown)
- Blow air supply hose out prior to initial use.
- DO NOT carry tool by air hose or near the tool throttle lever.
- Visually inspect air hoses and fittings for frays, visible damage and signs of deterioration. Replace damaged or worn components.
- Refer to Dynabrade's Warning/Safety Operating Instructions Tag (Reorder No. **95903**) for safety information.

After maintenance is performed on tool, add a few drops of Dynabrade Air Lube (P/N **95842**) to the air line and start the tool a few times to lubricate air motor. Check for excessive tool vibration.

Handling and Storage:

- Use of tool rests, hangers and/or balancers is recommended.
- Protect tool inlet from debris (see Notice below).
- DO NOT carry tool by air hose or near the tool throttle lever.
- Protect type 1 grinding wheels from exposure to water, solvents, high humidity, freezing temperatures and extreme temperature changes.
- DO NOT USE type 1 grinding wheels that have been dropped or show signs of cracks, nick or other defects.
- Store accessories in protective racks or compartments to prevent damage.

Machine Specifications

Model Number	Motor HP (W)	Motor RPM	Sound Level	Maximum Air Flow CFM/SCFM (LPM)	Air Pressure PSIG (Bars)	Spindle Thread	Weight Pound (kg)	Length Inch (mm)	Height Inch (mm)
52376	1.0 (744)	12,000	82 dB(A)	5/38 (1,076)	90 (6.2)	3/8"-24 male	3.9 (1.8)	14-1/4 (362)	3-1/2 (89)
52377	1.0 (744)	15,000	83 dB(A)	5/39 (1,104)	90 (6.2)	3/8"-24 male	3.9 (1.8)	14-1/4 (362)	3-1/2 (89)
52378	1.0 (744)	18,000	84 dB(A)	6/40 (1,133)	90 (6.2)	3/8"-24 male	3.9 (1.8)	14-1/4 (362)	3-1/2 (89)
52379	1.0 (744)	12,000	82 dB(A)	5/38 (1,076)	90 (6.2)	3/8"-24 male	3.9 (1.8)	14-1/4 (362)	4-1/2 (113)
52380	1.0 (744)	15,000	83 dB(A)	5/39 (1,104)	90 (6.2)	3/8"-24 male	3.9 (1.8)	14-1/4 (362)	4-1/2 (113)

Additional Specifications: Air Inlet Thread 3/8" NPT • Hose I.D. Size 3/8" (10 mm) • Air Flow Rate Based At Max HP. • Air Pressure 90 PSIG Max

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.

1 Hp Extension Type 1 Wheel Grinder

Complete Assembly Breakdown

Index Key

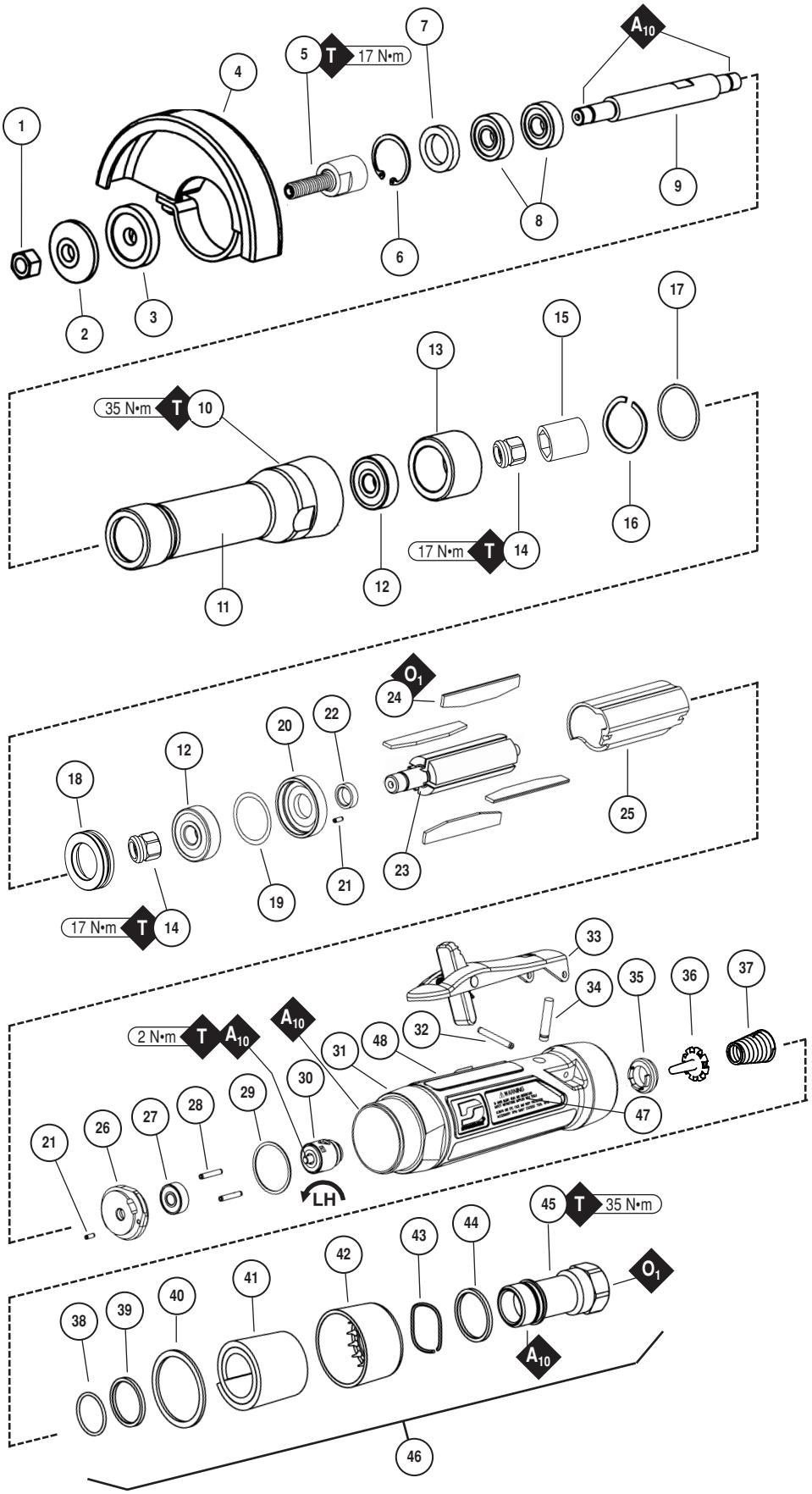
No.	Part #	Description
1	**96511**	Hex Nut
2	**51964**	Front Flange
3	**51963**	Rear Flange
4	**51983**	3" Guard
	51984	4" Guard
5	**53616**	3" Spindle Adapter
	53615	4" Spindle Adapter
6	**96512**	Retainer Ring
7	**51956**	Felt Seal
8	**01007**	Bearing (2)
9	**51955**	Spindle Extension
10	**51952**	Handle Extension
11	**53690**	Grip
12	**54520**	Bearing (2)
13	**51982**	Spacer
14	**51969**	Coupling Nut (2)
15	**50902**	Coupler
16	**96498**	Wave Spring
17	**95438**	O-Ring
18	**53620**	Adapter
19	**51951**	Shim Pack
20	**51922**	Front Bearing Plate
21	**96441**	Pin (2)
22	**51927**	Spacer
23	**51921**	Rotor
24	**51926**	Blade (4/Pkg.)
25	**51925**	Cylinder
26	**51923**	Rear Bearing Plate
27	**02057**	Bearing
28	**96445**	Pin (2)
29	**51924**	Gasket
30	**Governor Assembly**	
	51930	12,000 RPM Models
	51931	15,000 RPM Models
	51932	18,000 RPM Models
31	**All Housings Include:**	
	Warning & Specification Labels	
	53723	Housing – Model **52376**
	53724	Housing – Model **52377**
	53725	Housing – Model **52378**
	52726	Housing – Model **52379**
	52727	Housing – Model **52380**
32	**96444**	Pin
33	**51949**	Safety Lever Assembly
34	**51946**	Valve Stem Assembly (Incl. **96443** O-Ring)
35	**51945**	Valve Seat
36	**51944**	Tip Valve
37	**51943**	Spring
38	**96442**	O-Ring
39	**51940**	Spacer
40	**53682**	Gasket
41	**94528**	Felt Silencer
42	**53686**	Muffler Cap
43	**94924**	Wave Spring
44	**53683**	Spacer
45	**53681**	Inlet Bushing (Incl. 2 – **51938** Screens)
46	**53655**	Muffler Assembly

Label Key

No.	Part #	Description
47	**00001248**	Warning Label
48	**00001181**	Specification Label

KEY

- **O** Oil: **O_1 = Air Lube**
- **A** Adhesive: **A_{10} = Loctite #243**
- **T** Torque: **N•m x 8.85 = In. - lbs.**
- **G** Grease: **G_1 = Lubriplate 630 AA**



Always follow adhesive manufacturers cleaning and priming recommendations.

Disassembly Instructions - 1 Hp Extension Type 1 Wheel Grinder

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

Disconnect tool from power source before tool repair.

Motor Disassembly:

1. Remove **96511** Hex Nut and slide off **51964** Flange Washer, abrasive wheel, and **51963** Backup Flange.
2. Remove wheel guard assembly.
3. Secure front end of housing in a soft (aluminum or bronze jaw) vise, align the vise jaws with machined flat on the silver ring.
4. Apply wrench at wrench flats on **51952** Extension Handle and remove from housing.
5. Slide **51982** Bearing Spacer and spindle assembly through rear of **51952** Extension Handle.
6. Remove **96512** Retaining Ring from front of extension handle and remove **51956** Felt Seal.
7. Secure **51955** Spindle at wrench flats, and remove spindle adapter and **51935** Coupling.
8. Secure **01007** Bearing and press **51955** Spindle through both **01007** Bearings.
9. Secure **54520** Bearing and press **51955** Spindle through **54520** Bearing.
10. Remove **96498** Wave Spring from housing assembly.
11. Pull motor assembly from housing assembly, and remove **53620** Motor Adapter with **95438** O-Ring.
12. Remove governor assembly by using a slotted screw driver. (**LEFT HAND** thread)
13. Secure **51925** Cylinder and place a 1/8" (3 mm) drift pin to the base of the internal thread and press the **51921** Rotor from the **02057** Rear Bearing.
14. Slide **02057** Rear Bearing from **51923** Rear Bearing Plate.
15. Remove **51925** Cylinder and **51926** Blades.
16. Secure **51921** Rotor in a soft (aluminum or bronze jaw) vise and remove **51935** Coupling (twist counterclockwise).
17. Slide **51922** Front Bearing Plate and **51927** Rotor Spacer from **51921** Rotor.
18. Slide **54520** Bearing and shims from **51922** Front Bearing Plate.

Motor Disassembly Complete.

Housing Disassembly:

1. Secure housing using **51989** Repair Collar (***order separately–see back cover for Optional Accessories***).
2. Remove **51937** Inlet Bushing (twist counterclockwise).
3. Remove **51943** Spring, **96442** O-Ring, **51940** Spacer and **51939** Silencer Plate from **51937** Inlet Bushing.
4. Remove **51941** Spring, **51942** Baffle, **51944** Tip Valve and **51945** Valve Seat.

Disassembly Complete.

Assembly Instructions - 1 Hp Extension Type 1 Wheel Grinder

Motor Assembly:

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

1. Place **51921** Rotor into a padded vise with male thread facing upwards.
2. Slip **51927** Rotor Spacer over rotor shaft and down against rotor body face.
3. Press **96441** Coiled Pin into **51922** Front Bearing Plate. Make certain, coiled pin does not protrude beyond internal bearing surface.
4. Place a .002" Shim into the base of **51922** Front Bearing Plate as an initial spacing and slide **54520** Bearing to the front plate base.
   Note: 51951 Shim Pack contains .001" and .002" shims.
5. Slip bearing/bearing plate assembly onto rotor, torque **51935** Coupling onto rotor shaft to 17 N•m (150 lbs.-in.).
6. Check clearance between rotor and front bearing plate by using a .001" feeler gauge. Clearance should be between .001" - .0015". Adjust clearance by repeating steps 4 and 5 with different shims if necessary.
7. Once proper rotor gap clearance is achieved, install well lubricated **51926** Blades (4) into rotor slots. Dynabrade recommends lubricating blades with **95842** Air Lube.
   Important: Make certain beveled edge of blade follows rotor outside diameter.
8. Install **51925** Cylinder over rotor and front plate raised boss. Align coiled pin on front plate to cylinder slot.
9. Press **96441** Coiled Pin into blind hole on **51923** Rear Bearing Plate. Press (2) **96445** Coiled Pins into the back side of rear bearing plate.
10. Peel backing off **51924** Gasket and align it firmly in place onto **51923** Rear Bearing Plate.
11. Place **51923** Rear Bearing Plate over rotor mandrel and insert raised boss on rear bearing plate into cylinder diameter, while inserting short coiled pin into cylinder slot. Be sure inlet slot on rear bearing plate line up with inlet slot on cylinder. Flip cylinder end to end and repeat steps 8 & 9 for correct assembly.
12. Press **02057** Bearing onto rotor and into **51923** Rear Bearing Plate hole until it is seated.
    Important: While pressing **02057** Bearing, make certain to contact inner race of bearing. Cylinder must fit snug between bearing plates. If too tight, rotor will not turn freely. Rotor must be lightly tapped at press fit end until rotor spins freely, maintain a snug fit. A loose fit will not achieve the proper preload on motor bearings.
13. Add one drop of Loctite® 243 (or equiv.) to governor assembly male thread and screw governor assembly into place (**LEFT HAND** thread) with a slotted screw head. Torque to 2 N•m (18 lbs.-in.).

(Continued on next page)

Assembly Instructions - *(Continued)*

Important: Manufacturer's warranty is void if tool is disassembled before warranty expires.
Please refer to parts breakdown for part identification.

14. Install motor assembly into housing, making sure motor drops all the way into housing.
    Note: Align both **96445** Coiled Pins to slots in insert and against **51924** Gasket.
15. Install **95438** O-Ring onto **53620** Adapter and slide adapter into housing and over **54520** Bearing.
16. Place **96498** Wave Washer onto **53620** Adapter.
17. Place **51936** Coupling Insert into **51935** Coupling. Make certain insert radii aligns with radii in coupling base, to correct alignment remove insert and rotate 90˚.
18. Press one **01007** bearing on end of **51955** Extension Spindle that is further from the wrench flats, then repeat with second **01007** Bearing on same end of spindle.
    Important: While pressing **01007** Bearings, make certain to contact inner race of bearing only.
19. Press **54520** Bearing onto end of spindle that is closer to wrench to wrench flats.
    Important: While pressing **54520** Bearing, make certain to contact inner race of bearing only.
20. Secure spindle and apply Loctite® 243 (or equiv.) to external threads then torque **51935** Coupling on single bearing end to 17 N•m (150 lb.-in.).
21. On double bearing end, apply Loctite® 243 (or equiv.) to external threads and torque spindle adapter to 17 N•m (150 lb.-in.).
22. Install **51956** Felt Seal over spindle adapter.
23. Install **96512** Retaining Ring into groove inside **51952** Extension Handle.
24. Insert spindle assembly, with spindle adapter first, into larger diameter end of **51952** Extension Handle.
25. Insert **51982** Bearing Spacer into larger diameter end of extension handle.
26. Pull **51936** Coupling Insert half way off of **51935** Coupling to assure alignment with mating coupling.
27. Apply adhesive Loctite® 567 (or equiv.) to external threads on housing.
28. Align **51936** Coupling insert onto **51935** Coupling in extension handle.
29. Thread housing assembly onto extension handle.
30. Secure front end of housing in a padded vise, align the vise jaws with machined flat on the silver ring.
31. Apply wrench at wrench flats on **51952** Extension Handle and torque handle onto housing to 35 N•m (310 lb.-in.).
32. Install guard onto extension housing.

Motor Assembly Complete.

Housing Assembly:

1. Secure housing using **51989** Repair Collar (***see back cover for Optional Accessories***) with wheel adapter facing downward.
2. Install **51945** Valve Seat by aligning 3 male prongs with three deep slots on insert. Make certain valve seat is pressed flat against base of pocket.
   Note: Add a few drops of Dynabrade Air Lube (P/N **95842**) to pocket walls before inserting **51945** Valve Seal.
3. Install **51944** Tip Valve as shown.
4. Slide **51942** Baffle into housing long end in first, and place **51941** Spring into shallow wall end of baffle.
5. Pre-assemble **51937** Inlet Bushing by sliding **51939** Silencer Plate, **51940** Spacer over male thread and set **96442** O-Ring into groove at the base of thread. Slide **51943** Spring into bushing and up to the two **51938** Screens.
6. Apply one drop of Loctite® 243 (or equiv.) to **51937** Inlet Bushing thread.
7. Align small inside diameter of **51943** Spring to cone point on **51944** Tip Valve and thread **51937** Inlet Bushing and sub-assembly into place. Torque bushing to 35 N•m (310 lb.-in.).
8. Slide **96443** O-Ring onto **51946** Valve Stem and slide sub-assembly until o-ring passes through housing hole. Make certain valve stem assembly slides freely after the o-ring passes through the hole.
9. Remove housing from **51989** Repair Collar and place repair collar onto the bench top with the part number identifier against the bench. Align the throttle lever holes to housing pin hole and rest the housing and throttle lever onto the legs of the repair collar. Press **96444** Coiled Pin into lever hole and center into housing.

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 max. If tool operates at higher RPM than marked on the tool of if vibration levels seem abnormal, the tool should be serviced to correct the cause before use.

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1. Slide **51963** Backup Flange onto spindle adapter, align slot on backup flange with machined flats on spindle adapter.
2. Slide abrasive wheel with blotters and **51694** flange washer onto spindle adapter, and install **96511** Hex Nut.
   Caution: Tighten hex nut only enough to prevent the abrasive wheel from spinning under working conditions. Over tightening the hex nut can cause damage to the abrasive wheel and/or flanges.

Important: Tool assembly should now be tested for proper operation at 90 PSIG max. If tool operates at higher RPM than marked on the tool of if vibration levels seem abnormal, the tool should be serviced to correct the cause before use.

Preventative Maintenance Schedule

For All 1Hp Extension Type 1 Wheel Grinders

This service chart is published as a guide to expectant life of component parts. The replacement levels are based on average tool usage over one year. Dynabrade Inc. considers one year usage to be 1,000 hours or 50% of a man year. Parts included in motor tune-up kit are identified by High Wear and Medium Wear items.

Parts Common to all Models:

Index #	Part Number	Description	Number Required	High Wear 100%	Medium Wear 70%	Low Wear 30%	Non-Wear 10%
1	**96511**	Hex Nut	1			X	
2	**51964**	Front Flange	1			X	
3	**51963**	Rear Flange	1			X	
4	**51983**	3" Guard	1				X
	51984	4" Guard	1				X
5	**53616**	3" Spindle Adapter	1				X
	53615	4" Spindle Adapter	1				X
6	**96512**	Retainer Ring	1		L		
7	**51956**	Felt Seal	1	X			
8	**01007**	Bearing	2		X		
9	**51955**	Spindle Extension	1			X	
10	**51952**	Handle Extension	1				X
11	**54520**	Bearing	2		X		
12	**51982**	Spacer	1				X
13	**51969**	Coupling Nut	2				X
14	**50902**	Coupler	1				X
15	**96498**	Wave Spring	1				X
16	**95438**	O-Ring	1		L		
17	**53620**	Adapter	1				X
18	**51951**	Shim Pack	1		L		
19	**51922**	Front Bearing Plate	1			X	
20	**96441**	Pin	2			X	
21	**51927**	Spacer	1		X		
22	**51921**	Rotor	1			X	
23	**51926**	Blade (4/pkg.)	1	X			
24	**51925**	Cylinder	1			X	
25	**51923**	Rear Bearing Plate	1			X	
26	**02057**	Bearing	1		X		
27	**96445**	Pin	2			X	
28	**51924**	Gasket	1		X		
29	**51930**	Governor 12,000 RPM	1				X
	51931	Governor 15,000 RPM	1				X
	51932	Governor 18,000 RPM	1				X
30	**See Note**	Housing	1				X
31	**96444**	Pin	1		L		
32	**51949**	Safety Lever Assembly	1			X	
33	**51946**	Valve Stem Assembly	1		X		
34	**51945**	Valve Seat	1				X
35	**51942**	Baffle	1				X
36	**96442**	O-Ring	1		T, L		
37	**51940**	Spacer	1				X
38	**53682**	Gasket	1				X
39	**94528**	Felt Silencer	1	T, R1			
40	**53686**	Muffler Cap	1				X
41	**94924**	Wave Spring	1				X
42	**53683**	Spacer	1				X
43	**53681**	Inlet Bushing	1				X
44	**53655**	Muffler Assembly	1				X

Note: Please refer to page 4 of tool manual for specific part number.

LEGEND	
X	Type of wear, no other comments apply.
L	Easily lost. Care during assembly/disassembly.
D	Easily damaged during assembly/disassembly.
R1	Replace each time tool is disassembled.
R2	Replace each second time tool is disassembled.

96532 – 1 Hp. Motor Tune-Up Kit

- Tune-Up Kit includes high wear and medium wear motor parts.

Optional Accessories

Dynaswivel®

- Swivels 360° AT TWO PIVOT POINTS allowing the air hose to drop directly to the floor while providing superb tool handling.

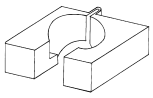
95461 – 3/8" NPT.

96532 Motor Tune-Up Kit

- Includes assorted parts to help maintain and repair motor.

01902 Drop-In Motor

- Allows quick and easy replacement. No motor adjustments needed.



51989 Repair Collar

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

53621 Over Hose Assembly

- Over Hose Assembly directs exhaust away from operator.

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.

95842: 1pt. (473 m)
95843: 1gal. (3.8 L)

30335 Air Supply Hose

- 3/8 in. I.D. x 60 in. Wide air supply hose, includes: 3/8 in. NPT male and female threaded fittings.

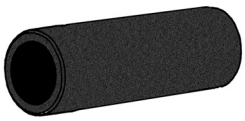
96005 Male Plug

- Provides up to twice the air flow compared to standard plug design.
- Plug has "ported" design to prevent "starving" of the air tool.

Bearing Press Tools

- Used to install bearings.

96243: For installing **02057** Bearing.
96244: For installing **01007** & **54520** Bearings.



53690 Extension Grip

- Provides added ergonomic comfort and control when handling tool.

95262 – 14 mm open-end.
95304 – 24 mm open-end.

REFERENCE CONTACT INFORMATION

American National Standards Institute (ANSI)
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